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CHEMICAL BIOLOGICAL CENTER
U.S. ARMY SOLDIER AND BIOLOGICAL CHEMICAL COMMAND

ECBC-TR-140

IR ABSORBANCE MEASUREMENT OF VARIABLE COMPOSITION AQUEOUS VOCs

Paul E. Field

VIRGINIA POLYTECHNIC INSTITUTE AND STATE UNIVERSITY
Blacksburg, VA 24061-0212

Roger J. Combs

RESEARCH AND TECHNOLOGY DIRECTORATE

February 2001

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REPORT DOCUMENTATION PAGE

Form Approved
OMB No. 0704-0188

Public reporting burden for this collection of information is estimated to average 1 hour per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503.

1. AGENCY USE ONLY *(Leave Blank)*	2. REPORT DATE	3. REPORT TYPE AND DATES COVERED
	February 2001	Final; Jul 93 - Feb 94

4. TITLE AND SUBTITLE
IR Absorbance Measurement of Variable Composition Aqueous VOCs

5. FUNDING NUMBERS
PR-56553J8D13
C-DAAD05-93-W-0997

6. AUTHOR(S)
Field, Paul E. (VPI&SU) and Combs, Roger J. (ECBC)

7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES)
Dept. of Chemistry, VPI&SU, Blacksburg, VA 24061-0212
DIR, ECBC,* ATTN: AMSSB-RRT-DP, APG, MD 21010-5424

8. PERFORMING ORGANIZATION REPORT NUMBER
ECBC-TR-140

9. SPONSORING/MONITORING AGENCY NAME(S) AND ADDRESS(ES)

10. SPONSORING/MONITORING AGENCY REPORT NUMBER

11. SUPPLEMENTARY NOTES
***When this work was conducted, the U.S. Army Edgewood Chemical Biological Center (ECBC) was known as the U.S. Army Edgewood Research, Development and Engineering Center (ERDEC).**

12a. DISTRIBUTION/AVAILABILITY STATEMENT
Approved for public release; distribution is unlimited.

12b. DISTRIBUTION CODE

13. ABSTRACT *(Maximum 200 words)*

Quantitative infrared (IR) absorbance spectra are compiled, which rely on the equilibrium-vapor cell method for generating controlled amounts of target analytes. The target analytes are the solutes of variable composition aqueous solutions of volatile organic compounds (VOCs). The VOCs investigated in this study are acetone, 2-butanone, ethanol, isopropanol, and methanol. The resulting vapor liquid equilibrium for the variable composition solutions provides analyte vapor concentrations in the Beer's law range of IR absorbance. Gravimetric solution preparation is documented with the actual solute and solvent weights for the VOC soltuions necessary to generate the targeted vapor pressures and concentrations.

14. SUBJECT TERMS
Quantitative infrared absorbance
Volatile organic compounds
Gravimetric solution preparation

15. NUMBER OF PAGES
384

16. PRICE CODE

17. SECURITY CLASSIFICATION OF REPORT	18. SECURITY CLASSIFICATION OF THIS PAGE	19. SECURITY CLASSIFICATION OF ABSTRACT	20. LIMITATION OF ABSTRACT
UNCLASSIFIED	UNCLASSIFIED	UNCLASSIFIED	UL

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PREFACE

The work described in this report was authorized under PR-56553J8D13 and Contract No. DAAD05-93-W-0997. The work was started in July 1993 and completed in February 1994.

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IR ABSORBANCE MEASUREMENT OF VARIABLE COMPOSITION AQUEOUS VOCs

1. INTRODUCTION

This report documents the vapor phase infrared (IR) spectra of five volatile organic compounds (VOCs). These VOCs are acetone, 2-butanone, ethanol, isopropanol, and methanol. Previous studies have relied on the spectral data included in the appendixes of this report to generate Beer's law plots for the determination of absorptivities of the targeted VOCs.[1,2] Vapor concentrations for the IR absorbance measurements are obtained from the partial vapor pressures generated over the variable composition aqueous VOC solutions. The VOC partial vapor pressure depends upon both solution composition and temperature. The correlation between partial VOC vapor pressure and solution composition at a fixed temperature has been established in a previous investigation.[3]

The IR absorbance spectra obtained in this report compare quite favorably to those obtained by different instrumental methods.[4] A traditional laboratory bench Fourier transform infrared (FT-IR) spectrometer was employed in acquiring the raw interferogram data.

2. EXPERIMENTAL METHODS

A detailed description of the equilibrium-vapor cell method for generating quantitative partial vapor pressures has been previously documented in the literature.[1] However, the actual solute/solvent weights were not provided. These weights along with the approximate and the calculated liquid mole percentages are furnished in Table 1 for each solute. The total solution weights were around 190 g and within the capability of the top loading balance (Model AE200; Mettler Instruments Corporation, Hightstown, NJ), which possessed a precision of 0.1 mg.

Acquisition of interferogram data employed the Spectra Calc applications software package (Galactic Industries Corporation, Salem, NH). The filename format of the interferogram data that were collected is tabulated in Table 2. This software package also permitted conversion of interferograms into single-beam spectra and subsequent calculation of absorbance. The computed single-beam spectra were calculated using box apodization. The filenames of the absorbance files have been listed in Table 3. The spectral point spacing for all target analytes was nominally 2/cm. Because the methanol PQR band centered at 1033/cm has rotational fine structure, the spectral point spacings of nominally 0.5/cm, 1.0/cm, and 4.0/cm were also used to allow assessment of band intensity as a function of spectral resolution.

Table 1. Solute/Solvent Weights in VOC Solution Preparation

Solute	Apprx. Mol%	Gms. H_2O	Gms. Soln.	Gms. Solute	Calc. Mol%
Acetone	15	108.3273	169.9800	61.6527	15.00
	7	141.0630	171.0502	29.9872	6.19
	3	154.5213	170.4100	15.8887	3.09
	1.5	162.1236	170.0740	7.9504	1.50
	1.0	164.6592	170.2810	5.6218	1.05
	0.5	167.2520	170.1370	2.8850	0.53
	0.25	168.7083	170.3070	1.5987	0.29
2-Butanone	5	140.4172	170.5240	30.1068	6.24
	2.5	154.1887	170.7225	16.5338	3.22
	1.3	161.5173	170.1312	8.6139	1.63
	0.6	165.9688	170.3210	4.3522	0.81
Ethanol	65	29.6091	170.0010	140.3919	64.96
	55	41.2142	170.0640	128.8498	55.01
	40	62.8181	170.4121	107.5940	40.11
	25	91.7365	170.0450	78.3085	25.03
	10	132.3451	170.0375	37.6924	10.02
	5	149.7326	170.2200	20.4874	5.08
	2	161.6044	170.1200	8.5156	2.02
Iso-Propanol	100				
	85	8.5726	170.0450	161.4734	84.95
	70	19.3546	170.0893	150.7347	70.01
	55	33.4917	170.0570	136.5653	55.00
	30	69.9404	169.9810	100.0406	30.01
	6	140.1584	170.0481	29.8897	6.01
	2	159.6605	170.0125	10.3520	1.91
Methanol	25	106.7613	169.9550	63.1937	24.97
	20	117.6860	170.0100	52.3240	20.00
	15	129.4513	170.0920	40.6407	15.00
	10	141.9906	170.0597	28.0691	10.00
	7.5	148.6097	170.5438	21.9341	7.66
	5	155.5506	170.0370	14.4864	4.98
	2.5	162.5970	170.0714	7.4774	2.52

Prepared: 4 Jan 1994

Table 2. Interferogram Filenames for VOC Solution Solutes

Solute	Analyte/Concentration/Sample or Blank/Run/SPS*	No. Files
Acetone		
	AW(Q,H,1,1H,3,7,15)(S/B)(A,B,C)2.spc	42
2-Butanone		
	KW(P6,1P3,2P5,5)(S/B)(A,B,C)2.spc	24
	KW5S(D,E,F,G)2.spc	4
Ethanol		
	EW(2,5,10,25,40,55,65)(S/B)(A,B,C)2.spc	42
Iso-Propanol		
	PW(2,6,30,55,70,85,100)(S/B)(A,B,C)2.spc	42
Methanol		
	MW(2,5,7,10,15,20,25)(S/B)(A,B,C)4.spc	42
	MW2S(D,E,F)4.spc	3
	MW2(S/B)(A,B,C)2.spc	6
	MW2(S/B)(A,B,C)1.spc	6
	MW(2,5,7,10,15,20,25)(S/B)(A,B,C)5.spc	42

*Last digit in filename indicates spectral point spacing (SPS) after FT.

Table 3. Absorbance Filenames Using Single-Beam Spectra

Solute	Analyte/Concentration/Run/SPS	No. Files	Size Bytes
Acetone			
	AB(1500,0700,0300,0150,0100,0050,0025)(A,B,C).spc	21	16640
2-Butanone			
	BB(50,25,13,06)(A,B,C).spc	12	16640
Ethanol			
	EB(65,55,40,25,10,05,02)(A,B,C).spc	21	16640
Iso-Propanol			
	PB(100,085,070,055,030,006,002)(A,B,C).spc	21	16640
Methanol			
	MB(25,20,15,10,07,05,02)(A,B,C)4.spc	21	8448
	MB(25,20,15,10,07,05,02)(A,B,C)2.spc	21	16640
	MB(25,20,15,10,07,05,02)(A,B,C)1.spc	21	33024
	MB(25,20,15,10,07,05,02)(A,B,C)5.spc	21	65792

3. ABSORBANCE SPECTRA EVALUATION

Calculation of the IR absorbance spectra requires taking the ratio of the single-beam blank/sample spectra for each target analyte condition to determine the transmittance spectrum. The transmittance spectra are converted to IR absorbance spectra by taking the base ten logarithm of the reciprocal of the transmittance. Three absorbance spectra are obtained for each of the five target analytes whose filenames are listed in Table 3. These three absorbance spectra for each condition are added together and divided by the number of spectra to produce an average. Using these absorbance averages, the associated average deviations are determined for each analyte condition and the filenames are furnished in Table 4. The average deviation, ad, for the spectral region from 750/cm to 1400/cm is computed at each wavenumber with equation 1.

$$ad = \sum |Y - Y_i| / 3 \qquad (1)$$

The Y is the average spectrum value at a specified wavenumber. The Y_i is one of the absorbance spectrum samples labeled A, B, or C at the specified wavenumber. Three is the number of absorbance spectra used in determining the average.

Table 4. Average and Average Deviation Absorbance Filenames for Spectral Region of 750 to 1400/cm

Solute	Analyte/Concentration/Average or Deviation/SPS*	No. Files	Size KBytes
Acetone			
	AS(1500,0700,0300,0150,0100,0050,0025)(AV,AD).prn	14	6
2-Butanone			
	BS(50,25,13,06)(AV,AD).prn	8	6
Ethanol			
	ES(65,55,40,25,10,05,02)(AV,AD).prn	14	6
Iso-Propanol			
	PS(100,085,070,055,030,006,002)(AV,AD).prn	14	6
Methanol			
	MS(25,20,15,10,07,05,02)(AV,AD)4.prn	14	3
	MS(25,20,15,10,07,05,02)(AV,AD)2.prn	14	6
	MS(25,20,15,10,07,05,02)(AV,AD)1.prn	14	12
	MS(25,20,15,10,07,05,02)(AV,AD)5.prn	14	24

*Spectral point spacing only for methanol data.

The computation of the average and associated average deviation for each equilibrium-vapor cell condition is accomplished with one of three Spectra Calc programs listed in Appendix A. The program ABCAVG.AB handles most of the absorbance spectra with 2/cm spectral point spacing (see Table 3 for solutes: acetone, 2-butanone, ethanol, and isopropanol). The program ABCFAVG.AB does expect a designation number at the end of the filename indicating the spectral point spacing. This program works on all methanol data with the exception of the 0.5/cm

spectral point spacing indicated by the number five at the end of the filename. The methanol absorbance spectra with 0.5/cm spectral point spacing are processed with the third program ABCSAVG.AB. This particular program avoids problems with the large file size by requiring only three memory slots to be open at a time for the computations. Table 5 illustrates the computed average, average deviation, and percent deviation absorbance results for the Q band of methanol for 0.5/cm point spectral spacing using a 2 mol % aqueous solution. The average and average deviation files from the 750/cm to 1400/cm spectral region (see Table 4) are reported in Appendixes B through F. The percent deviations are not provided in the appendixes, because they are easily computed from the average and average deviation absorbance data provided.

The percent deviations provide a convenient means of assessing the absorbance band cutoff limits. To evaluate the integrated peak area, it is necessary to establish band cutoff limits. An absorbance band cutoff limit is defined in this particular case as the wavenumber location at which the average signal strength equals three times the average deviation of that signal. This translates into a percent deviation of about 33%. Figures 1 and 2 furnish an examples of determining the band cutoff limits for acetone solutions of 1.05 and 6.19 mol % in the liquid phase. The lower band cutoff (see Figure 1) occurs at approximately 1157.6/cm and 1163.4/cm for the 1.05 and 6.19 mol % solutions, respectively. The upper band cutoff (see Figure 2) falls at about 1259.9/cm and 1271.5/cm for the 1.05 and 6.19 mol % solutions, respectively. As expected, the band cutoff limits for the higher concentration solution are slightly wider than those of the more dilute solution.

A listing of the solute mole percent in the liquid phase, solute vapor pressure over the solution, and concentration in the vapor phase, that are associated with each of the average and average deviation absorbance spectra in Appendixes B through F, are provided in Table 6. The concentration in the vapor phase is determined by using the ideal gas law with the details illustrated by equation 2.

$$n/V = P/RT = (P\ \text{Torr})/[(0.08205\ \text{l-atm/K-mole})(760\ \text{Torr/atm})(1000\ \text{l/m}^3)(T\ \text{K}) \quad (2)$$

Where n is the number of moles; V is the volume in m^3; P is pressure in Torr; and T is temperature in degrees Kelvin. For a vapor temperature of 22 °C, conversion from vapor pressure in Torr to moles/m^3 with equation 2 reduces to multiplying the vapor pressure by a factor of 0.05433.

Table 5. Comparison Between Computed[+] and Calculated[*] 2 mol % Methanol in Water Peak Absorbances

File	1032.5/cm	1033.0/cm	1033.5/cm	1033.9/cm	1034.4/cm
MB02A5	0.27798	0.41159	0.48852	0.37533	0.20507
MB02B5	0.27847	0.41292	0.48872	0.37509	0.20528
MB02C5	0.27640	0.40918	0.48825	0.37677	0.20792
[*]Average	0.27761	0.41123	0.48850	0.37573	0.20609
MB02AV5	0.27762	0.41123	0.48849	0.37573	0.20618
[*]Dev. A	0.00037	0.00036	0.00002	0.00040	0.00102
[*]Dev. B	0.00086	0.00169	0.00022	0.00064	0.00081
[*]Dev. C	0.00121	0.00205	0.00025	0.00104	0.00183
[*]Avg. Dev.	0.00081	0.00137	0.00016	0.00069	0.00122
MB02AD5	0.000809	0.001368	0.000165	0.000693	0.001157
[*]% Dev.	0.29141	0.33266	0.033778	0.18444	0.56116
MB02PC5	0.29147	0.33282	0.033814	0.18451	0.56146

[+]Computed Values read from Spectra Calc FTIR Absorbance Files Using PEAK Function (i.e., F6)

[*]Files MB02AV5, MB02AD5, and MB02PC5 were created using the Array BASIC program ABCSAVG.AB under Spectra Calc.

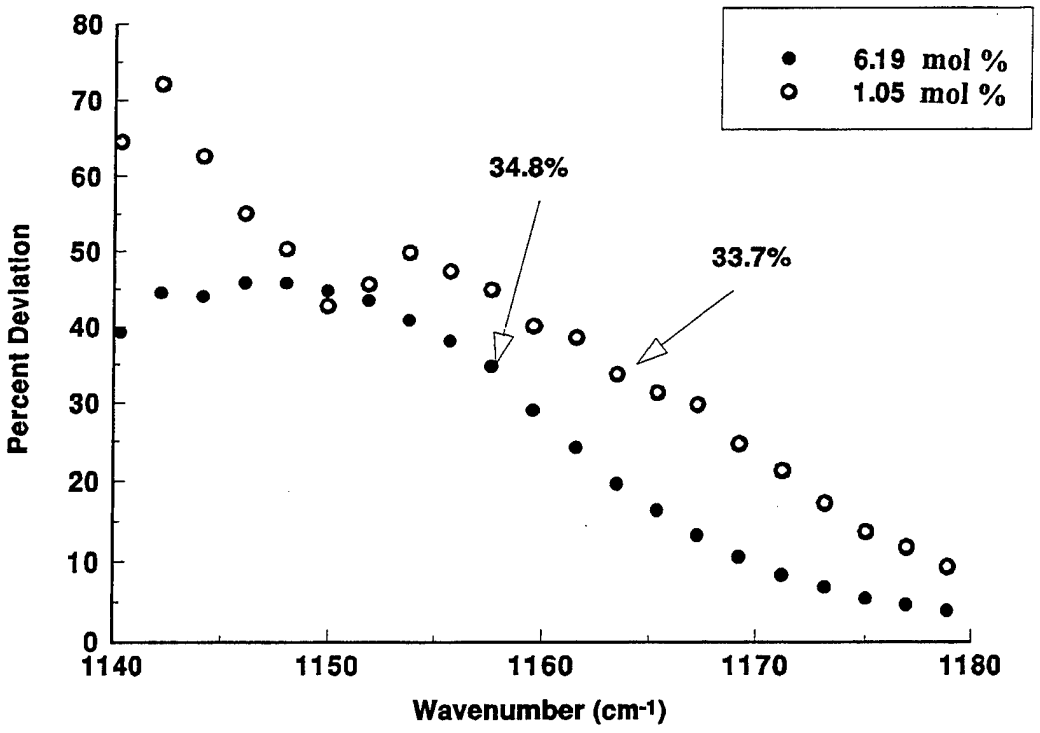


Figure 1. Lower Band Cutoff Limits for 1.05 and 6.19 mol % Acetone Solutions

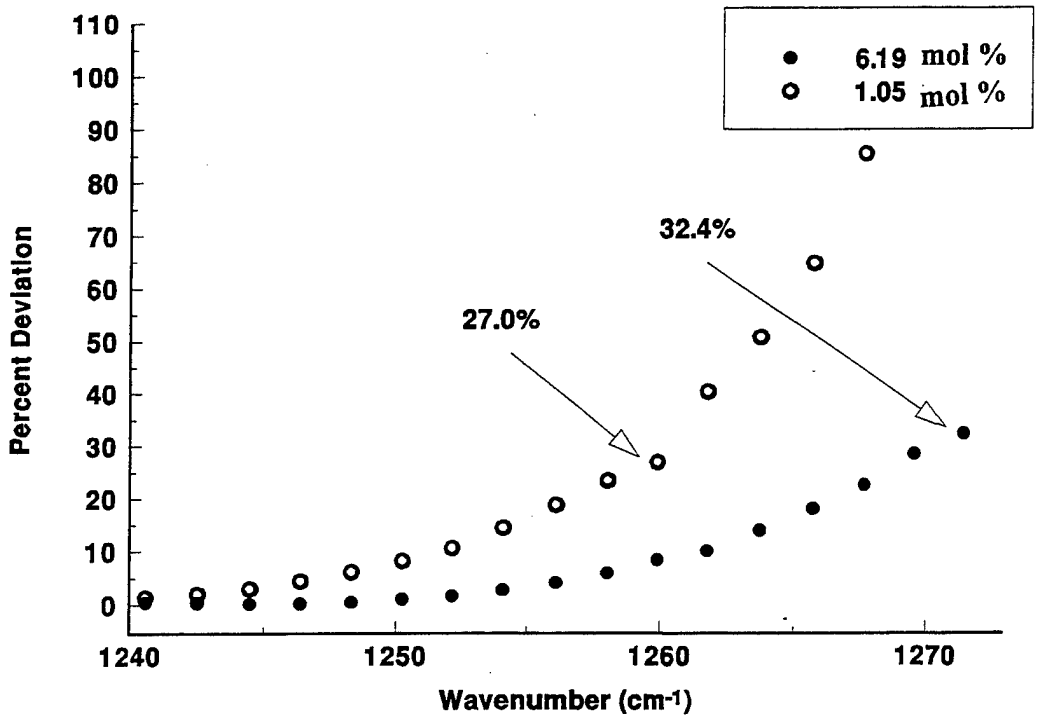


Figure 2. Upper Band Cutoff Limits for 1.05 and 6.19 mol % Acetone Solutions

Table 6. VOC Aqueous Solution Liquid Phase Mole Percent, Vapor Pressure in Torr and Vapor Concentration in Moles/m^3

Solute	Filename	Mol %	P (Torr)	Conc. (Moles/m^3)
Acetone	AS1500(AV/AD).prn	15.00	114.8	6.237
	AS0700(AV/AD).prn	6.19	77.5	4.210
	AS0300(AV/AD).prn	3.09	48.9	2.657
	AS0150(AV/AD).prn	1.50	27.3	1.483
	AS0100(AV/AD).prn	1.05	19.9	1.081
	AS0050(AV/AD).prn	0.53	10.6	0.576
	AS0025(AV/AD).prn	0.29	5.9	0.320
2-Butanone	BS50(AV/AD).prn	6.24	51.6	2.803
	BS25(AV/AD).prn	3.22	41.4	2.249
	BS13(AV/AD).prn	1.63	28.8	1.565
	BS06(AV/AD).prn	0.81	17.6	0.956
Ethanol	ES65(AV/AD).prn	64.96	35.5	1.929
	ES55(AV/AD).prn	55.01	32.5	1.766
	ES40(AV/AD).prn	40.11	28.2	1.532
	ES25(AV/AD).prn	25.03	23.6	1.282
	ES10(AV/AD).prn	10.02	15.8	0.858
	ES05(AV/AD).prn	5.08	10.5	0.570
	ES02(AV/AD).prn	2.02	5.1	0.277
Iso-Propanol	PS100(AV/AD).prn	100.0	36.2	1.968
	PS085(AV/AD).prn	84.95	31.4	1.706
	PS070(AV/AD).prn	70.01	27.9	1.516
	PS055(AV/AD).prn	55.00	25.0	1.358
	PS030(AV/AD).prn	30.01	21.2	1.152
	PS006(AV/AD).prn	6.01	14.1	0.766
	PS002(AV/AD).prn	1.91	7.4	0.402
Methanol	MS25(AV/AD)(4,2,1,5).prn	24.97	38.6	2.097
	MS20(AV/AD)(4,2,1,5).prn	20.00	33.0	1.793
	MS15(AV/AD)(4,2,1,5).prn	15.00	26.8	1.456
	MS10(AV/AD)(4,2,1,5).prn	10.00	19.5	1.059
	MS07(AV/AD)(4,2,1,5).prn	7.66	15.7	0.853
	MS05(AV/AD)(4,2,1,5).prn	4.98	10.8	0.587
	MS02(AV/AD)(4,2,1,5).prn	2.52	5.8	0.315

4. SUMMARY

In summary, the absorbance spectral data previously acquired by the equilibrium vapor cell method,[1] in the form of average and average deviation absorbance files, are compiled in a set of appendixes. Use of the average and average deviation files as a relative percent deviation furnishes a means of determining band cutoff limits for various target vapor concentrations. Actual solute and solvent weights to gravimetrically generate vapor concentrations are documented in this report. The filenaming conventions for interferogram, as well as absorbance spectral data produced with box car apodization, is supplied in tabular form. Vapor pressures in units of Torr and vapor concentration in units of moles/m^3 associated with absorbance spectra are listed to ensure completeness of this report.

LITERATURE CITED

1. Paul E. Field, Roger J. Combs, and Robert B. Knapp, "Equilibrium-Vapor Cell for Quantitative IR Absorbance Measurements," *Applied Spectroscopy*, Vol. 50, No. 10, pp 1307-1313 (1996).

2. Paul E. Field, Roger J. Combs, and Robert B. Knapp, "Equilibrium Vapor Cell for Quantitative Infrared Absorbance Measurements," ERDEC-TR-273, U.S. Army Edgewood Research, Development and Engineering Center, Aberdeen Proving Ground, MD, August 1995, UNCLASSIFIED Report (AD A299 833).

3. Paul E. Field, Roger J. Combs, and Robert B. Knapp, "Computation of Partial Vapor Pressures of Aqueous Volatile Organic Compound Solutions," ERDEC-TR-342, U.S. Army Edgewood Research, Development and Engineering Center, Aberdeen Proving Ground, MD, June 1996, UNCLASSIFIED Report (AD A311 531).

4. Robert T. Kroutil, Roger J. Combs, and Robert B. Knapp, "Radiometric Linearity in Passive FTIR Spectrometry," in SPIE Proceedings Internal Standardization and Calibration Architectures for Chemical Sensors, eds. R.E. Shaffer and R.A. Potyrailo, SPIE, Boston, MA, pp 34-43, Vol. 3856, September 1999.

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APPENDIX A

SPECTRA CALC AB PROGRAM LISTINGS

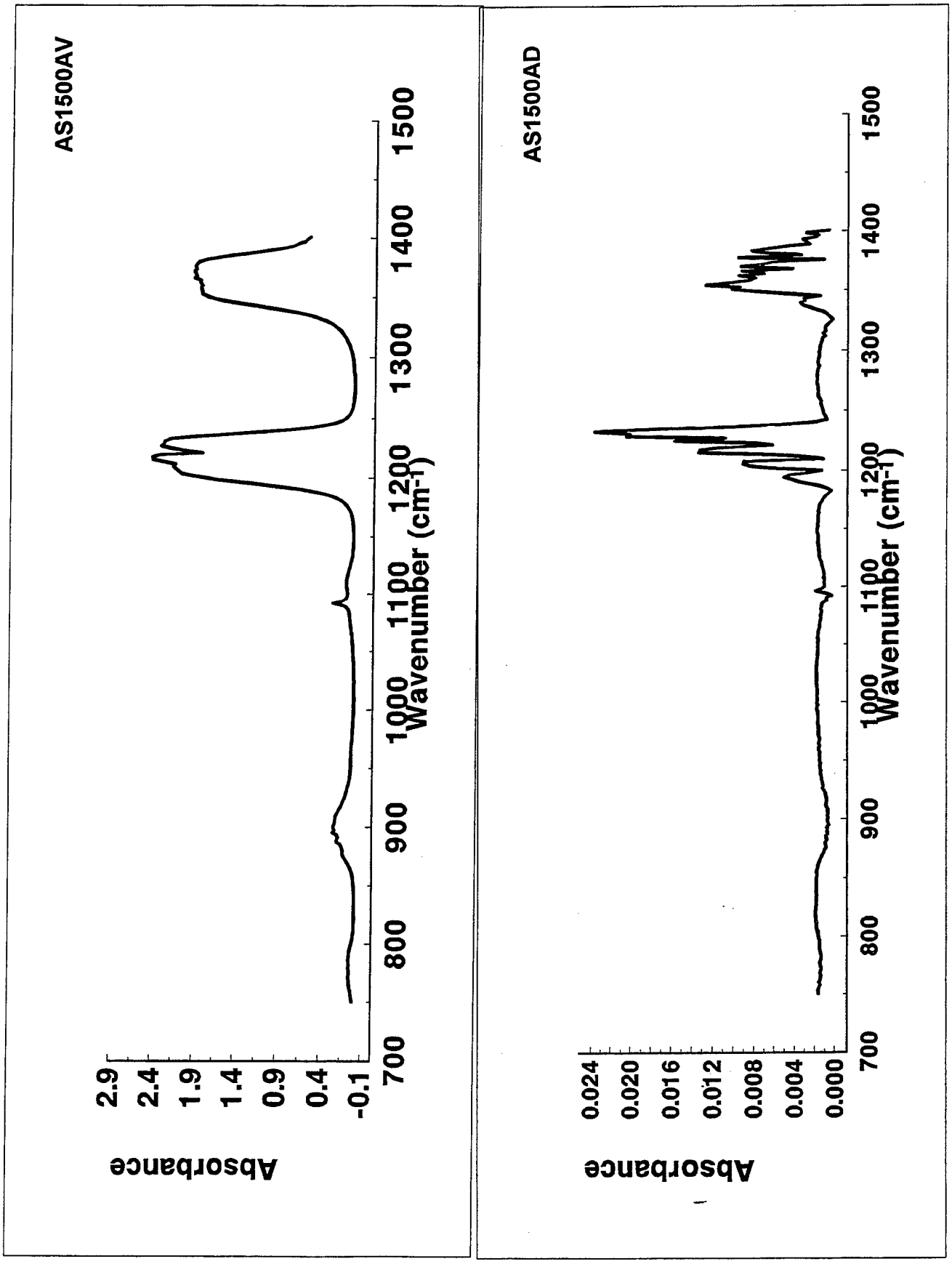
```
'ABCAVG.AB
'Creates files of (1)3 averaged spectra, (2)their a.d., & (3)the relative ad
'PEField I/O Asso. 20000905
free
dim base(14),snama(14),snamb(14),snamc(14)
input "Spectra Code (1Solute/1Apod/2-4Conc) ";$base
for j=0 to 14: snamc(j)=base(j)
if base(j)=0 then i=j: j=15
next j
snamc(i)=65: snamc(i+1)=46: snamc(i+2)=83: snamc(i+3)=80: snamc(i+4)=67
snama=snamc: snamc(i)=66: snamb=snamc: snamc(i)=67
'pauseon: print "FILES ARE ";$snama;" ";$snamb;" ";$snamc;" ";$base
loadspc $snamc: loadspc $snamb: loadspc $snama: loadspc $snama
#1=(#2+#3+#4)/3
string base(i,i+1)="AV": savespc $base: loadspc $base
for k=3 to 5: #k=ABS(#k-#1): next k
#1=(#3+#4+#5)/3
string base(i,i+1)="AD": savespc $base: loadspc $base
#1=(#2/#3)*100
string base(i,i+1)="PC": savespc $base
for k=1 to 3: setfile k: setleft 750,1400
#k=#k(getleft(),getright()): next k
base(1)=83: setfile 1: savespc $base
setfile 2: string base(i,i+1)="AD": savespc $base
setfile 3: string base(i,i+1)="AV": savespc $base
print "Saved Small Files #1,#2,#3 (?S*.) for EXPORT"
```

```
'ABCFAVG.AB
'Creates files of (1)3 averaged spectra, (2)their a.d., & (3)the relative ad
'Adapted from ABCAVG to Read and Write Files notated with Wavenumber Resolution
'PEField I/O Asso. 20000912
free
dim base(14),snama(14),snamb(14),snamc(14): nu=50
input "Spectra Code (1Solute_1Apod_2-4Conc_[/v]) ";$base
for j=0 to 14: snamc(j)=base(j)
if base(j)=47 then nu=base(j+1): base(j)=0
if base(j)=0 then i=j: j=15
next j: snamc(i)=65
snamc(i+1)=nu: snamc(i+2)=46: snamc(i+3)=83: snamc(i+4)=80: snamc(i+5)=67
snama=snamc: snamc(i)=66: snamb=snamc: snamc(i)=67
'pauseon: print "FILES ARE ";$snama;" ";$snamb;" ";$snamc;" ";$base:
loadspc $snamc: loadspc $snamb: loadspc $snama: loadspc $snama
#1=(#2+#3+#4)/3: base(i+2)=nu
string base(i,i+1)="AV": savespc $base: loadspc $base
for k=3 to 5: #k=ABS(#k-#1): next k
#1=(#3+#4+#5)/3
string base(i,i+1)="AD": savespc $base: loadspc $base
#1=(#2/#3)*100
string base(i,i+1)="PC": savespc $base
for k=1 to 3: setfile k: setleft 750,1400
#k=#k(getleft(),getright()): next k
base(1)=83: setfile 1: savespc $base
setfile 2: string base(i,i+1)="AD": savespc $base
setfile 3: string base(i,i+1)="AV": savespc $base
```

```
'ABCSAVG.AB
'Creates files of (1)3 averaged spectra, (2)their a.d., & (3)the relative ad
'Adapted from ABCFAVG to handle 64K 0.5/cm files -
'only 3 such files can reside concurrently in the memory allocated by Spectra-Calc
'PEField I/O Asso. 20000913
free
dim base(14),snama(14),snamb(14),snamc(14): nu=50
input "Spectra Code (1Solute_1Apod_2-4Conc_[/v]) ";$base
for j=0 to 14: snamc(j)=base(j)
if base(j)=47 then nu=base(j+1): base(j)=0
if base(j)=0 then i=j: j=15
next j: snamc(i)=65
snamc(i+1)=nu: snamc(i+2)=46: snamc(i+3)=83: snamc(i+4)=80: snamc(i+5)=67
snama=snamc: snamc(i)=66: snamb=snamc: snamc(i)=67
'pauseon: print "FILES ARE ";$snama;" ";$snamb;" ";$snamc;" ";$base:
loadspc $snamc: loadspc $snamb: loadspc $snama
#1=(#1+#2+#3)/3: base(i+2)=nu
string base(i,i+1)="AV": savespc $base: 'loadspc $base
for k=2 to 3: #k=ABS(#k-#1): next k: '#1=(#3+#4+#5)/3
#2=#2+#3: setfile 3: noshow: loadspc $snama: #2=ABS(#2-#1)
#2=#2+#3: #2=#2/3:
string base(i,i+1)="AD": savespc $base
#3=(#2/#1)*100
string base(i,i+1)="PC": savespc $base
for k=1 to 3: setfile k: setleft 750,1400
#k=#k(getleft(),getright()): next k
base(1)=83: setfile 3: savespc $base
setfile 2: string base(i,i+1)="AD": savespc $base
setfile 1: string base(i,i+1)="AV": savespc $base
```

APPENDIX B

ACETONE ABSORBANCE SPECTRA


AS1500AV
Absorbance
2.9
2.4
1.9
1.4
0.9
0.4
-0.1
700
800
900
1000
1100
1200
1300
1400
1500
Wavenumber (cm-1)
AS1500AD
Absorbance
0.024
0.020
0.016
0.012
0.008
0.004
0.000
700
800
900
1000
1100
1200
1300
1400
1500
Wavenumber (cm-1)

Acetone 15.00 Mole % 114.8 Torr AS1500AV
AS1500AD

WN (cm-1)	AVE (A.U.)	AD (A.U.)	WN (cm-1)	AVE (A.U.)	AD (A.U.)
750.547	0.000131	0.0015972	837.369	-0.01335	0.0018468
752.476	0.0042054	0.001625	839.298	-0.01284	0.0018315
754.405	0.0078036	0.0016181	841.228	-0.01233	0.0018367
756.335	0.013685	0.0015467	843.157	-0.01241	0.0018127
758.264	0.0192349	0.0014409	845.086	-0.0121	0.001834
760.194	0.0234932	0.0015376	847.016	-0.01053	0.0018115
762.123	0.0286825	0.0014156	848.945	-0.00843	0.0018395
764.052	0.0321353	0.0013871	850.874	-0.00598	0.001786
765.982	0.035057	0.0013533	852.804	-0.00445	0.0017591
767.911	0.0374392	0.0014127	854.733	-0.00219	0.0018034
769.84	0.0408068	0.0013919	856.663	0.000265	0.0017817
771.77	0.0421207	0.0013376	858.592	0.005589	0.0017067
773.699	0.0395778	0.0013626	860.521	0.01213	0.0016546
775.629	0.0382767	0.0014197	862.451	0.020316	0.0015909
777.558	0.0408465	0.0014673	864.38	0.029458	0.0014922
779.487	0.0438622	0.0013554	866.31	0.039703	0.0013938
781.417	0.0409819	0.001338	868.239	0.052748	0.0013241
783.346	0.0408446	0.0013348	870.168	0.068153	0.0011741
785.275	0.0471175	0.001383	872.098	0.086881	0.0010777
787.205	0.0456196	0.00141	874.027	0.105769	0.0009963
789.134	0.0415575	0.0014931	875.956	0.122932	0.0008405
791.064	0.0396957	0.0014827	877.886	0.129095	0.0008913
792.993	0.0362026	0.0014694	879.815	0.126096	0.0009622
794.922	0.0312582	0.0015147	881.745	0.134934	0.0008026
796.852	0.0254748	0.0014948	883.674	0.142766	0.0007856
798.781	0.0179311	0.0016326	885.603	0.153742	0.0008445
800.711	0.0113246	0.0016372	887.533	0.199157	0.0007152
802.64	0.0045213	0.0016644	889.462	0.192448	0.000779
804.569	-0.000235	0.001668	891.392	0.188289	0.000747
806.499	-0.004337	0.0018078	893.321	0.194863	0.0007644
808.428	-0.008263	0.0018242	895.25	0.244799	0.0006047
810.357	-0.009823	0.0017983	897.18	0.228335	0.0006672
812.287	-0.012022	0.0017981	899.109	0.237789	0.0007369
814.216	-0.013346	0.0018618	901.038	0.236496	0.0006524
816.146	-0.013789	0.0018617	902.968	0.227819	0.0007176
818.075	-0.014739	0.001904	904.897	0.224608	0.0006743
820.004	-0.015856	0.0019205	906.827	0.222013	0.0007166
821.934	-0.016159	0.0018666	908.756	0.214962	0.0007119
823.863	-0.016448	0.0018708	910.685	0.205078	0.000838
825.792	-0.015187	0.001829	912.615	0.191965	0.0008643
827.722	-0.014681	0.0018482	914.544	0.17709	0.0008175
829.651	-0.014416	0.0018319	916.473	0.161199	0.0007983
831.581	-0.015046	0.0018148	918.403	0.147734	0.0008343
833.51	-0.01513	0.0018125	920.332	0.135656	0.0008823
835.439	-0.01415	0.0017918	922.262	0.124655	0.0009366

APPENDIX B

Acetone 15.00 Mole % 114.8 Torr AS1500AV
AS1500AD

WN (cm-1)	AVE (A.U.)	AD (A.U.)
924.191	0.113134	0.0010696
926.12	0.102216	0.0011723
928.05	0.0931903	0.0011702
929.979	0.0851792	0.0012067
931.909	0.0780762	0.0012509
933.838	0.0708259	0.0013304
935.767	0.0638754	0.0013452
937.697	0.0572011	0.001404
939.626	0.0507677	0.0014296
941.555	0.0469177	0.0014089
943.485	0.0432599	0.0014965
945.414	0.0400691	0.0014918
947.344	0.0378956	0.0014527
949.273	0.0352507	0.0015235
951.202	0.0345163	0.0015196
953.132	0.0339689	0.0015181
955.061	0.0334788	0.0015372
956.991	0.0339178	0.0014963
958.92	0.0319278	0.0015921
960.849	0.0299224	0.0015699
962.779	0.0286351	0.0015536
964.708	0.0281956	0.0015998
966.637	0.0277225	0.0015442
968.567	0.0288837	0.0015177
970.496	0.0253374	0.0016168
972.426	0.0225039	0.001628
974.355	0.0198118	0.0016222
976.284	0.0180314	0.0016182
978.214	0.0173144	0.001629
980.143	0.0163585	0.0016505
982.072	0.0154398	0.0016855
984.002	0.0135418	0.0016954
985.931	0.0115454	0.001685
987.861	0.0110844	0.0017022
989.79	0.0104637	0.0016953
991.719	0.0089201	0.0017291
993.649	0.007563	0.0017916
995.578	0.0058691	0.0017848
997.508	0.0047871	0.0017218
999.437	0.004413	0.001775
1001.36	0.0046423	0.0017643
1003.29	0.0030561	0.0017641
1005.22	0.0026693	0.0017933
1007.15	0.0023072	0.0017566
1009.08	0.0022484	0.0017442

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1011.01	0.002248	0.0017471
1012.94	0.00262	0.0017715
1014.87	0.002945	0.001799
1016.8	0.002891	0.0018457
1018.73	0.002574	0.0018254
1020.66	0.002767	0.0018145
1022.59	0.00153	0.001822
1024.51	0.001746	0.0018259
1026.44	0.003246	0.0018366
1028.37	0.004443	0.0018533
1030.3	0.004387	0.001833
1032.23	0.005557	0.0018029
1034.16	0.007481	0.0017826
1036.09	0.007647	0.0017912
1038.02	0.010066	0.0017546
1039.95	0.011766	0.0017463
1041.88	0.01282	0.0017232
1043.81	0.014142	0.0017286
1045.74	0.015393	0.0017038
1047.67	0.017133	0.0017143
1049.6	0.018654	0.0016873
1051.53	0.020609	0.0017114
1053.45	0.021928	0.0016672
1055.38	0.023167	0.0017166
1057.31	0.024277	0.001685
1059.24	0.026122	0.0016797
1061.17	0.027805	0.0016531
1063.1	0.030999	0.0015684
1065.03	0.034495	0.0015509
1066.96	0.038676	0.0015441
1068.89	0.040587	0.0015117
1070.82	0.044717	0.0014561
1072.75	0.049126	0.0014133
1074.68	0.05266	0.0014446
1076.61	0.056616	0.0013872
1078.54	0.059845	0.0013609
1080.47	0.061356	0.0014225
1082.39	0.064247	0.0013711
1084.32	0.067813	0.0013574
1086.25	0.076787	0.0011601
1088.18	0.097079	0.0008291
1090.11	0.139786	0.0008498
1092.04	0.259198	0.0003382
1093.97	0.149224	0.0008731
1095.9	0.104809	0.0019089

Acetone 15.00 Mole % 114.8 Torr AS1500AV
AS1500AD

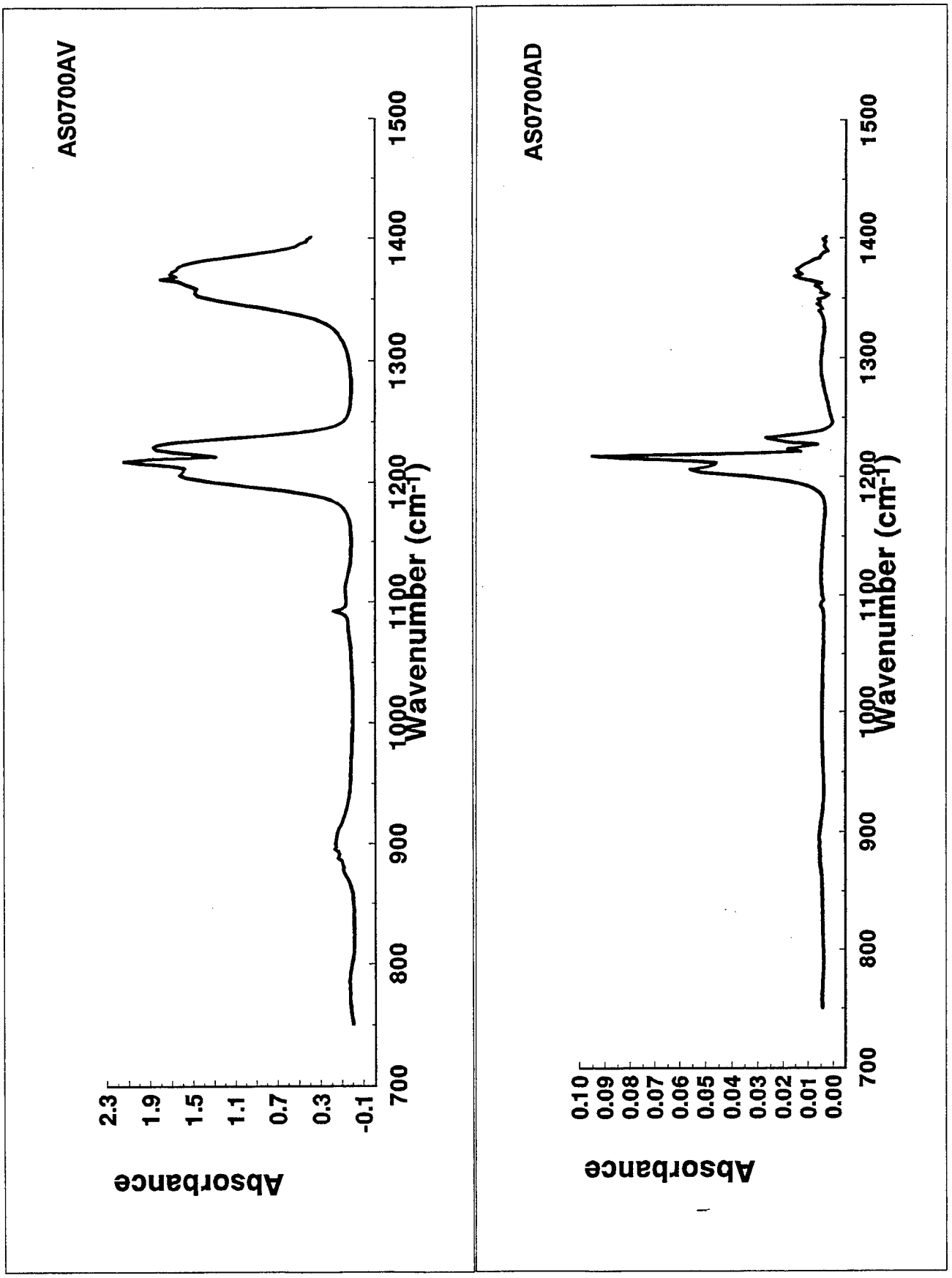
WN (cm-1)	AVE (A.U.)	AD (A.U.)
1097.83	0.0932826	0.0013344
1099.76	0.0895557	0.0011063
1101.69	0.0918697	0.0010562
1103.62	0.0956675	0.0011045
1105.55	0.0989504	0.0010623
1107.48	0.101194	0.0011116
1109.41	0.101538	0.0010859
1111.33	0.101764	0.0011102
1113.26	0.0983773	0.0011619
1115.19	0.094145	0.001186
1117.12	0.0873007	0.0012556
1119.05	0.0798579	0.00134
1120.98	0.0725404	0.0013614
1122.91	0.0647334	0.0014432
1124.84	0.0571996	0.0015376
1126.77	0.0503576	0.0015773
1128.7	0.0439903	0.0015682
1130.63	0.0389328	0.0015859
1132.56	0.0340429	0.0016437
1134.49	0.0305349	0.0016417
1136.42	0.0278902	0.0016605
1138.34	0.0253755	0.0017206
1140.27	0.0232598	0.0016777
1142.2	0.0214343	0.0017054
1144.13	0.0209708	0.0016976
1146.06	0.0200857	0.0017461
1147.99	0.0197857	0.0017668
1149.92	0.0198884	0.0017717
1151.85	0.0198457	0.0017276
1153.78	0.0202892	0.0017545
1155.71	0.0209945	0.0017055
1157.64	0.0220919	0.0016807
1159.57	0.0245154	0.0016985
1161.5	0.0273702	0.0017056
1163.43	0.0317602	0.0016381
1165.36	0.0364512	0.0016663
1167.28	0.0428756	0.0016042
1169.21	0.0512852	0.0015676
1171.14	0.0619101	0.0015305
1173.07	0.0751316	0.0013666
1175	0.091523	0.0012487
1176.93	0.111688	0.0010834
1178.86	0.138704	0.0009
1180.79	0.174268	0.0006609
1182.72	0.223796	0.000379

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1184.65	0.291628	0.000767
1186.58	0.385982	0.0015023
1188.51	0.515015	0.0024585
1190.44	0.683524	0.0036101
1192.37	0.880484	0.0042831
1194.3	1.10301	0.005049
1196.22	1.34563	0.0045355
1198.15	1.58248	0.0024381
1200.08	1.78558	0.0013997
1202.01	1.94162	0.0063559
1203.94	2.06624	0.0083057
1205.87	2.10756	0.0090945
1207.8	2.13729	0.0090355
1209.73	2.1634	0.0011981
1211.66	2.14132	0.0031344
1213.59	2.26738	0.006497
1215.52	2.40944	0.0133516
1217.45	2.41994	0.0132517
1219.38	2.33212	0.011411
1221.31	1.81502	0.0062949
1223.24	2.043	0.0080794
1225.16	2.18508	0.0156665
1227.09	2.3046	0.0108331
1229.02	2.28067	0.020432
1230.95	2.26891	0.0200797
1232.88	2.20708	0.0236332
1234.81	1.93763	0.0190629
1236.74	1.55772	0.0100853
1238.67	1.15353	0.0047315
1240.6	0.803692	0.0019403
1242.53	0.540645	0.0008528
1244.46	0.359771	0.0009157
1246.39	0.24055	0.0010929
1248.32	0.167183	0.0011907
1250.25	0.121745	0.0012156
1252.17	0.092527	0.0012948
1254.1	0.072344	0.0013841
1256.03	0.05848	0.0014398
1257.96	0.047645	0.0014309
1259.89	0.041133	0.0015347
1261.82	0.035221	0.0016801
1263.75	0.030788	0.0017162
1265.68	0.027329	0.001694
1267.61	0.024565	0.0017526
1269.54	0.022506	0.0017478

Acetone 15.00 Mole % 114.8 Torr AS1500AV
AS1500AD

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1271.47	0.0214494	0.0017894
1273.4	0.0183577	0.0018473
1275.33	0.0177132	0.001772
1277.26	0.0176966	0.001787
1279.19	0.0181787	0.0018122
1281.11	0.0190694	0.0017954
1283.04	0.0199763	0.0017707
1284.97	0.0216837	0.0017176
1286.9	0.0246607	0.001595
1288.83	0.0295431	0.0017609
1290.76	0.0338977	0.0017555
1292.69	0.0314315	0.0016954
1294.62	0.0351331	0.0016452
1296.55	0.0391756	0.0015718
1298.48	0.0436757	0.0016426
1300.41	0.0492961	0.0015448
1302.34	0.0559892	0.0015532
1304.27	0.0627124	0.0014757
1306.2	0.0711849	0.0014211
1308.13	0.0806265	0.0013255
1310.05	0.0896532	0.001314
1311.98	0.104002	0.001048
1313.91	0.117374	0.0012198
1315.84	0.133511	0.0009751
1317.77	0.152157	0.0010417
1319.7	0.17462	0.0009685
1321.63	0.19424	0.0007339
1323.56	0.223897	0.0004906
1325.49	0.257372	0.0002779
1327.42	0.298646	0.0004918
1329.35	0.351064	0.0007595
1331.28	0.416287	0.0010799
1333.21	0.495379	0.0017748
1335.14	0.59304	0.0024811
1337.06	0.72568	0.0031505
1338.99	0.872256	0.0034812
1340.92	1.04347	0.0030235
1342.85	1.20789	0.0031329
1344.78	1.39245	0.0015556
1346.71	1.56248	0.0049351
1348.64	1.67156	0.0076108
1350.57	1.7565	0.0101432
1352.5	1.82614	0.0094703
1354.43	1.83602	0.0126735
1356.36	1.83942	0.0102652

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1358.29	1.84186	0.0083951
1360.22	1.83537	0.0079519
1362.15	1.85588	0.0094734
1364.08	1.85353	0.0071149
1366	1.92026	0.0092075
1367.93	1.89763	0.0042933
1369.86	1.91495	0.0093033
1371.79	1.92438	0.0072045
1373.72	1.90139	0.0062889
1375.65	1.9146	0.001143
1377.58	1.8985	0.0095166
1379.51	1.87883	0.0034186
1381.44	1.78828	0.0069882
1383.37	1.66306	0.0082338
1385.3	1.45804	0.0066179
1387.23	1.24262	0.0048244
1389.16	1.04045	0.0025976
1391.09	0.880088	0.0029161
1393.02	0.757167	0.0032522
1394.94	0.704403	0.0019227
1396.87	0.625003	0.0017234
1398.8	0.599973	0.0028831
1400.73	0.562333	0.000658


AS0700AV
Absorbance
2.3
1.9
1.5
1.1
0.7
0.3
-0.1
700
800
900
1000
1100
1200
1300
1400
1500
Wavenumber (cm-1)
AS0700AD
Absorbance
0.10
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0.00
700
800
900
1000
1100
1200
1300
1400
1500
Wavenumber (cm-1)

Acetone 6.19 Mole % 77.5 Torr AS0700AV AS0700AD

WN (cm-1)	AVE (A.U.)	AD (A.U.)
750.547	-0.0052497	0.0042749
752.476	-0.0026015	0.0042619
754.405	-0.000027	0.0042996
756.335	0.0040038	0.0043856
758.264	0.0076584	0.0043545
760.194	0.0104063	0.0042582
762.123	0.0140877	0.0043398
764.052	0.0161814	0.0042508
765.982	0.0180413	0.0042275
767.911	0.0200049	0.0041718
769.84	0.0223584	0.0041576
771.77	0.023421	0.0040848
773.699	0.0217795	0.0040296
775.629	0.0208235	0.0039364
777.558	0.0223878	0.0038764
779.487	0.0242074	0.0039121
781.417	0.0227115	0.003753
783.346	0.0224383	0.0037726
785.275	0.0267526	0.0038012
787.205	0.0256905	0.0037374
789.134	0.0229481	0.0037332
791.064	0.0219126	0.0037845
792.993	0.0198255	0.0037698
794.922	0.0164794	0.0037731
796.852	0.012525	0.0038281
798.781	0.0072116	0.0037612
800.711	0.0026512	0.0038001
802.64	-0.0017311	0.0038527
804.569	-0.0049561	0.0038826
806.499	-0.0080565	0.0039215
808.428	-0.0104016	0.0039142
810.357	-0.0116145	0.0039004
812.287	-0.012975	0.0039907
814.216	-0.0138429	0.0040381
816.146	-0.0139076	0.0040527
818.075	-0.0147944	0.0041308
820.004	-0.015655	0.0040736
821.934	-0.0159357	0.0041101
823.863	-0.0161027	0.0042696
825.792	-0.0146705	0.0041773
827.722	-0.0143585	0.0041949
829.651	-0.0141986	0.0042229
831.581	-0.0148431	0.0043069
833.51	-0.0150015	0.0041911
835.439	-0.0144307	0.0042973

WN (cm-1)	AVE (A.U.)	AD (A.U.)
837.369	-0.0132846	0.0042852
839.298	-0.0130438	0.0042574
841.228	-0.0128536	0.0042958
843.157	-0.0133838	0.0043077
845.086	-0.0128091	0.0042844
847.016	-0.011948	0.0043717
848.945	-0.0099775	0.0043166
850.874	-0.0082887	0.0043055
852.804	-0.0073663	0.0043219
854.733	-0.0059291	0.0043507
856.663	-0.0045387	0.0043341
858.592	-0.0008846	0.0043798
860.521	0.0037947	0.004491
862.451	0.0098631	0.0044869
864.38	0.0156841	0.0045689
866.31	0.0225406	0.0046758
868.239	0.0313797	0.0047401
870.168	0.0419162	0.0049263
872.098	0.0550745	0.0050476
874.027	0.0683416	0.0051139
875.956	0.0799201	0.0052246
877.886	0.0838496	0.005163
879.815	0.0816882	0.0051241
881.745	0.0874564	0.0052029
883.674	0.0930343	0.0052545
885.603	0.100764	0.0053908
887.533	0.131632	0.0054814
889.462	0.126873	0.0052909
891.392	0.12393	0.0052335
893.321	0.128797	0.005482
895.25	0.163214	0.0055761
897.18	0.152455	0.0054161
899.109	0.158618	0.0053865
901.038	0.157443	0.0051561
902.968	0.151482	0.0050963
904.897	0.149388	0.0050286
906.827	0.147502	0.0049185
908.756	0.143094	0.0048054
910.685	0.136109	0.0045906
912.615	0.126811	0.0044809
914.544	0.116463	0.0043594
916.473	0.105556	0.0042342
918.403	0.0966144	0.004132
920.332	0.0881397	0.0040194
922.262	0.0808255	0.0040181

Acetone 6.19 Mole % 77.5 Torr AS0700AV
AS0700AD

WN (cm-1)	AVE (A.U.)	AD (A.U.)
924.191	0.0725612	0.0038911
926.12	0.0650761	0.0038093
928.05	0.0586753	0.0038087
929.979	0.053479	0.0037483
931.909	0.048627	0.0037343
933.838	0.0438195	0.0036882
935.767	0.0387623	0.0037283
937.697	0.0340651	0.0037006
939.626	0.0295222	0.0037166
941.555	0.0271613	0.0037393
943.485	0.0247732	0.0037733
945.414	0.0228788	0.0038023
947.344	0.021051	0.0037869
949.273	0.0191844	0.0038393
951.202	0.0182907	0.0039085
953.132	0.0180102	0.0039535
955.061	0.0177082	0.0040048
956.991	0.0183126	0.0040374
958.92	0.0166042	0.0040593
960.849	0.0150513	0.0040603
962.779	0.0138045	0.0041391
964.708	0.0136648	0.0042056
966.637	0.0137218	0.0041936
968.567	0.014432	0.0042439
970.496	0.0120217	0.0042332
972.426	0.009821	0.0042898
974.355	0.007937	0.004299
976.284	0.00674	0.0043727
978.214	0.0064661	0.0043844
980.143	0.0059948	0.0043518
982.072	0.00515	0.0044094
984.002	0.0038524	0.0043468
985.931	0.0024337	0.0043626
987.861	0.0022287	0.0043453
989.79	0.0019293	0.0043717
991.719	0.0011401	0.0043651
993.649	0.0002359	0.0043158
995.578	-0.0010361	0.0043533
997.508	-0.0017964	0.0043255
999.437	-0.0019758	0.0043319
1001.36	-0.0015182	0.0043776
1003.29	-0.0025445	0.0043333
1005.22	-0.0027033	0.0043502
1007.15	-0.0029667	0.0043275
1009.08	-0.0029925	0.0043844

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1011.01	-0.0029421	0.0044045
1012.94	-0.0026547	0.0043585
1014.87	-0.0020343	0.0043701
1016.8	-0.0020467	0.004331
1018.73	-0.0023671	0.0042829
1020.66	-0.0024841	0.0042494
1022.59	-0.0033675	0.0042811
1024.51	-0.0031231	0.0042461
1026.44	-0.0018199	0.0042475
1028.37	-0.000561	0.0042337
1030.3	-0.0007272	0.0042084
1032.23	0.0001111	0.0042257
1034.16	0.0013893	0.0041798
1036.09	0.0014129	0.0041799
1038.02	0.0032541	0.0041824
1039.95	0.0045377	0.0041044
1041.88	0.0052884	0.0041143
1043.81	0.0060378	0.0041471
1045.74	0.0068426	0.0040659
1047.67	0.0083686	0.0040171
1049.6	0.0093189	0.0040464
1051.53	0.010971	0.004055
1053.45	0.0119457	0.0039626
1055.38	0.0124804	0.003909
1057.31	0.0134944	0.003888
1059.24	0.0147062	0.0038291
1061.17	0.0158309	0.0037822
1063.1	0.0180837	0.00385
1065.03	0.0206808	0.003814
1066.96	0.0234887	0.0038455
1068.89	0.0245184	0.0037928
1070.82	0.0271655	0.0038256
1072.75	0.0301994	0.0038167
1074.68	0.0325683	0.0038269
1076.61	0.0352649	0.003797
1078.54	0.0373332	0.0038406
1080.47	0.038005	0.0037814
1082.39	0.039728	0.0038359
1084.32	0.0416149	0.0038457
1086.25	0.0479436	0.0040076
1088.18	0.0617372	0.0042683
1090.11	0.0908236	0.0048222
1092.04	0.173733	0.00498
1093.97	0.0971555	0.0044838
1095.9	0.066245	0.003737

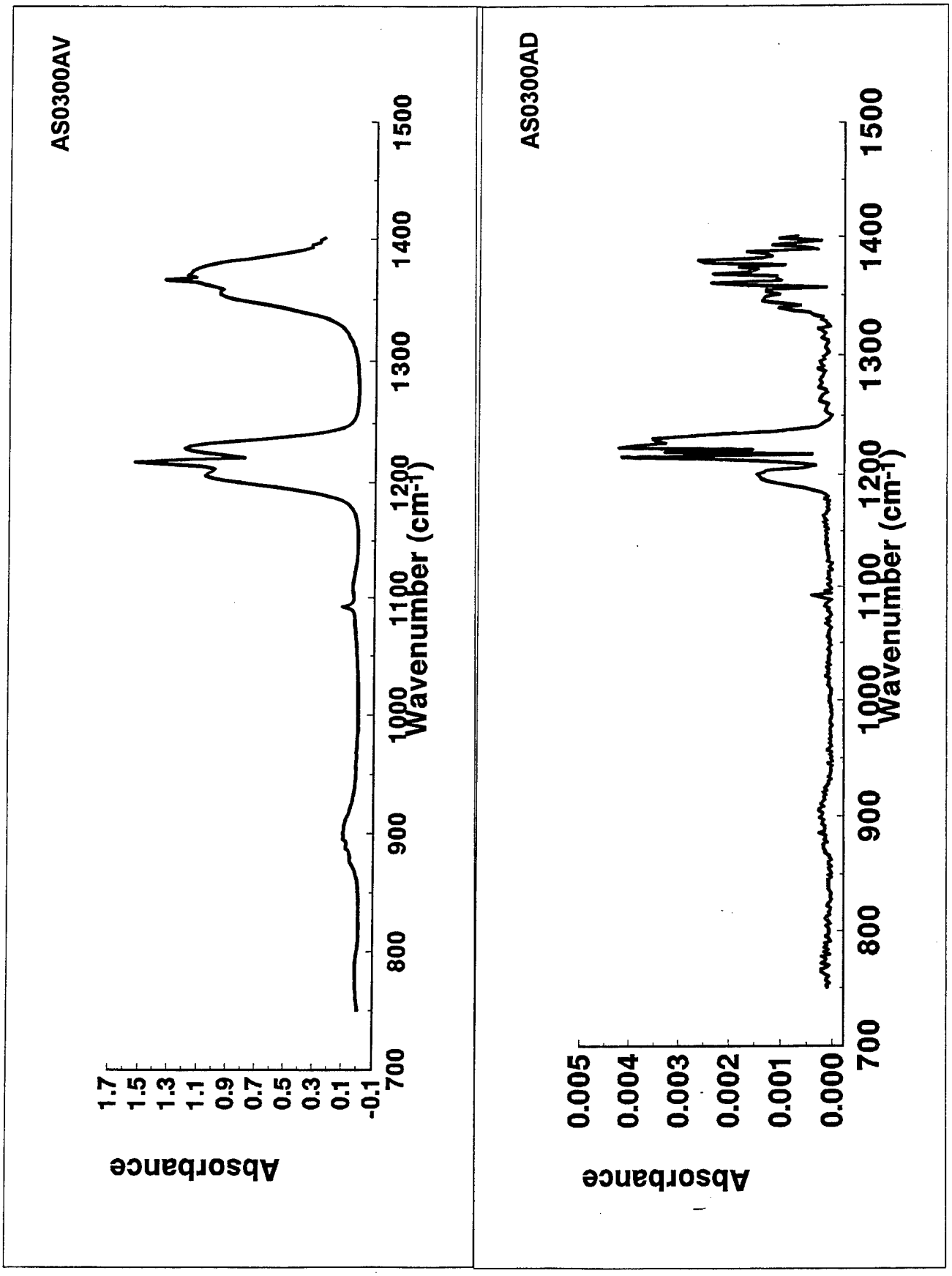
Acetone 6.19 Mole % 77.5 Torr AS0700AV
AS0700AD

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1097.83	0.0579976	0.0041699
1099.76	0.0556699	0.0043156
1101.69	0.0571368	0.0044186
1103.62	0.0595304	0.0045241
1105.55	0.0616501	0.0045861
1107.48	0.0633145	0.0046631
1109.41	0.0635275	0.0047042
1111.33	0.0637388	0.0047957
1113.26	0.0614475	0.0047775
1115.19	0.0583166	0.0048208
1117.12	0.0533789	0.0047146
1119.05	0.0484373	0.0047882
1120.98	0.0436382	0.0048019
1122.91	0.0383475	0.0047301
1124.84	0.0333448	0.00472
1126.77	0.028618	0.0046777
1128.7	0.0242909	0.0045933
1130.63	0.0207119	0.0045585
1132.56	0.0176103	0.0045038
1134.49	0.0155064	0.004524
1136.42	0.0140382	0.0044784
1138.34	0.0123624	0.004407
1140.27	0.0109855	0.0043125
1142.2	0.009708	0.0043223
1144.13	0.0096354	0.0042438
1146.06	0.0091143	0.004179
1147.99	0.008967	0.0041077
1149.92	0.0091314	0.004087
1151.85	0.0090794	0.0039462
1153.78	0.0094728	0.003872
1155.71	0.0099253	0.0037848
1157.64	0.0107484	0.0037383
1159.57	0.0124804	0.0036217
1161.5	0.0147762	0.0035837
1163.43	0.0177795	0.0034975
1165.36	0.0209278	0.0034256
1167.28	0.0252802	0.0033478
1169.21	0.0312215	0.0033062
1171.14	0.0384677	0.0032132
1173.07	0.0477063	0.0032679
1175	0.0591445	0.0032238
1176.93	0.0728177	0.0033782
1178.86	0.0914066	0.0035835
1180.79	0.115918	0.0037653
1182.72	0.150247	0.0041749

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1184.65	0.197349	0.0047263
1186.58	0.262436	0.0055339
1188.51	0.351297	0.0066097
1190.44	0.467863	0.0082932
1192.37	0.604635	0.0103399
1194.3	0.762268	0.0133399
1196.22	0.94106	0.0178905
1198.15	1.12972	0.0240882
1200.08	1.30324	0.0329362
1202.01	1.44565	0.0431088
1203.94	1.55579	0.0519622
1205.87	1.61275	0.0557927
1207.8	1.60062	0.0506037
1209.73	1.5811	0.0468268
1211.66	1.57407	0.0460299
1213.59	1.68192	0.0564703
1215.52	1.95727	0.0831578
1217.45	2.13204	0.0949708
1219.38	1.84525	0.0377071
1221.31	1.27819	0.0129837
1223.24	1.48141	0.0179534
1225.16	1.67638	0.0123698
1227.09	1.83098	0.0063974
1229.02	1.85656	0.0173169
1230.95	1.82213	0.0224299
1232.88	1.68795	0.0265321
1234.81	1.41743	0.0179999
1236.74	1.10337	0.0105227
1238.67	0.804148	0.0050254
1240.6	0.557633	0.0026741
1242.53	0.373917	0.0013577
1244.46	0.247687	0.0005076
1246.39	0.16489	0.0003342
1248.32	0.113645	0.0005888
1250.25	0.0819887	0.0008811
1252.17	0.0615452	0.0010828
1254.1	0.0473206	0.001341
1256.03	0.0373574	0.0015664
1257.96	0.0296385	0.0017811
1259.89	0.025198	0.002126
1261.82	0.0204093	0.0020616
1263.75	0.0170394	0.002397
1265.68	0.014543	0.0026465
1267.61	0.0125816	0.0028448
1269.54	0.0111456	0.0031775

Acetone 6.19 Mole % 77.5 Torr AS0700AV AS0700AD

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1271.47	0.0104193	0.0033771
1273.4	0.007493	0.0035052
1275.33	0.0068549	0.0037709
1277.26	0.0069268	0.0039827
1279.19	0.0069454	0.0041667
1281.11	0.007396	0.0043262
1283.04	0.0078199	0.0044762
1284.97	0.0089706	0.0046752
1286.9	0.0113397	0.0047979
1288.83	0.0145645	0.004846
1290.76	0.0176403	0.0048546
1292.69	0.0158396	0.0049057
1294.62	0.0182188	0.0049453
1296.55	0.0212994	0.0049588
1298.48	0.0242823	0.0048401
1300.41	0.0280977	0.0048301
1302.34	0.0329247	0.0047565
1304.27	0.037638	0.0046486
1306.2	0.043436	0.0045808
1308.13	0.0506922	0.0044989
1310.05	0.0564513	0.0044756
1311.98	0.0670974	0.0044688
1313.91	0.0768486	0.0040911
1315.84	0.0872383	0.0040381
1317.77	0.101214	0.0039567
1319.7	0.11825	0.0036092
1321.63	0.129884	0.0036202
1323.56	0.150405	0.00364
1325.49	0.173134	0.0037056
1327.42	0.201533	0.0036643
1329.35	0.238025	0.0038119
1331.28	0.282847	0.0038276
1333.21	0.337972	0.004186
1335.14	0.405638	0.0045091
1337.06	0.501526	0.0049459
1338.99	0.606861	0.0056656
1340.92	0.728261	0.0045983
1342.85	0.846226	0.0050353
1344.78	0.991303	0.0063865
1346.71	1.13558	0.0053202
1348.64	1.25436	0.0061119
1350.57	1.3656	0.0032655
1352.5	1.44707	0.00197
1354.43	1.47252	0.004961
1356.36	1.47098	0.0049104
1358.29	1.46019	0.0055079
1360.22	1.51246	0.0072861
1362.15	1.5792	0.004835
1364.08	1.63481	0.0085282
1366	1.79157	0.0125907
1367.93	1.65408	0.015252
1369.86	1.70528	0.0124855
1371.79	1.69013	0.0141615
1373.72	1.64913	0.0144819
1375.65	1.63313	0.0132081
1377.58	1.59589	0.0116255
1379.51	1.51213	0.0098898
1381.44	1.38976	0.0081734
1383.37	1.216	0.0056331
1385.3	1.03909	0.0051499
1387.23	0.88319	0.0042143
1389.16	0.721544	0.0023846
1391.09	0.605618	0.0031005
1393.02	0.521963	0.0035775
1394.94	0.497205	0.0035899
1396.87	0.431456	0.0031335
1398.8	0.419365	0.0040148
1400.73	0.38472	0.0029459


AS0300AV
Absorbance
1.7
1.5
1.3
1.1
0.9
0.7
0.5
0.3
0.1
-0.1
700
800
900
1000
1100
1200
1300
1400
1500
Wavenumber (cm-1)
AS0300AD
Absorbance
0.005
0.004
0.003
0.002
0.001
0.000
700
800
900
1000
1100
1200
1300
1400
1500
Wavenumber (cm-1)

Acetone 3.09 Mole % 48.9 Torr AS0300AV AS0300AD

WN (cm-1)	AVE (A.U.)	AD (A.U.)	WN (cm-1)	AVE (A.U.)	AD (A.U.)
750.547	-0.005153	0.0000952	837.369	-0.00837	0.0000726
752.476	-0.003115	0.0001071	839.298	-0.00805	0.0000647
754.405	-0.002086	0.0000535	841.228	-0.00783	0.0000699
756.335	0.0007312	0.000114	843.157	-0.00854	0.0000677
758.264	0.0030082	0.0001056	845.086	-0.0085	0.0000715
760.194	0.0045947	0.000069	847.016	-0.0079	0.0000179
762.123	0.0065832	0.0001327	848.945	-0.00621	0.000066
764.052	0.0073936	0.0002059	850.874	-0.00524	0.0000172
765.982	0.0085867	0.0002067	852.804	-0.00443	0.000037
767.911	0.0102857	0.0001055	854.733	-0.00399	0.0000627
769.84	0.0118712	0.0000663	856.663	-0.00326	0.000017
771.77	0.0122514	0.0001962	858.592	-0.00088	0.0000714
773.699	0.0114486	0.0001253	860.521	0.002244	0.0000695
775.629	0.01047	0.0001188	862.451	0.006175	0.0000215
777.558	0.0113224	0.0001957	864.38	0.009904	0.0000553
779.487	0.0122369	0.0000478	866.31	0.01368	0.0000578
781.417	0.0114714	0.0001453	868.239	0.018356	0.0001341
783.346	0.0113687	0.0000801	870.168	0.024825	0.0001294
785.275	0.013816	0.0001383	872.098	0.03329	0.0001625
787.205	0.012905	0.0001029	874.027	0.041628	0.0001644
789.134	0.0118157	0.0001288	875.956	0.048926	0.0001652
791.064	0.011245	0.0000276	877.886	0.051035	0.0000987
792.993	0.0103835	0.0000524	879.815	0.049564	0.0001514
794.922	0.008552	0.0001143	881.745	0.052874	0.000128
796.852	0.005993	0.0000711	883.674	0.056759	0.0001282
798.781	0.0030018	0.0000575	885.603	0.061502	0.0002411
800.711	0.0004909	0.0000571	887.533	0.080125	0.0001418
802.64	-0.002215	0.0000707	889.462	0.077584	0.0001463
804.569	-0.003992	0.0001072	891.392	0.075396	0.0001436
806.499	-0.00561	0.0000365	893.321	0.077926	0.00019
808.428	-0.007242	0.0000664	895.25	0.099089	0.0001846
810.357	-0.00839	0.0001147	897.18	0.093419	0.000168
812.287	-0.008953	0.0000992	899.109	0.097024	0.0002309
814.216	-0.009132	0.0000443	901.038	0.096148	0.0001916
816.146	-0.008975	0.0000603	902.968	0.092162	0.0001866
818.075	-0.009433	0.0000439	904.897	0.090473	0.0002501
820.004	-0.010063	0.000036	906.827	0.089735	0.0002423
821.934	-0.010743	0.0000887	908.756	0.08709	0.0001602
823.863	-0.010644	0.0000794	910.685	0.082718	0.0002162
825.792	-0.009414	0.0000389	912.615	0.077179	0.0001765
827.722	-0.009254	0.0000179	914.544	0.070277	0.0001433
829.651	-0.008622	0.0000364	916.473	0.063492	0.0001629
831.581	-0.009673	0.0000311	918.403	0.058178	0.0001333
833.51	-0.00968	0.0000265	920.332	0.053184	0.0001674
835.439	-0.009262	0.0000501	922.262	0.048678	0.0001071

Acetone 3.09 Mole % 48.9 Torr AS0300AV AS0300AD

WN (cm-1)	AVE (A.U.)	AD (A.U.)
924.191	0.0434183	0.0001358
926.12	0.0386223	0.0001067
928.05	0.0345693	0.0000689
929.979	0.0317004	0.0000725
931.909	0.0290188	0.0000299
933.838	0.0263788	0.0000632
935.767	0.02318	0.0000417
937.697	0.0202851	0.0000385
939.626	0.0172677	0.000028
941.555	0.0159817	0.0000379
943.485	0.0149715	0.0000125
945.414	0.0140798	0.0000757
947.344	0.0126356	2.31E-06
949.273	0.0116045	0.0000282
951.202	0.0106138	0.0000194
953.132	0.0106428	0.0000444
955.061	0.0108539	0.0000176
956.991	0.0114526	0.0000897
958.92	0.0102206	0.0000477
960.849	0.0089454	0.0000162
962.779	0.0080414	0.0000456
964.708	0.0079183	0.0000357
966.637	0.0084068	0.000047
968.567	0.009117	0.0000244
970.496	0.0073343	0.000043
972.426	0.0056696	0.0000383
974.355	0.0040995	0.0000434
976.284	0.0032396	0.0000355
978.214	0.0030985	7.04E-06
980.143	0.003084	0.0000332
982.072	0.0024735	0.0000446
984.002	0.001498	0.000032
985.931	0.0001949	0.0000161
987.861	0.0002899	3.71E-06
989.79	0.0003079	0.0000262
991.719	0.0001683	0.00001
993.649	-0.00033	0.000031
995.578	-0.001149	0.0000262
997.508	-0.001644	0.0000454
999.437	-0.001928	0.0000607
1001.36	-0.00137	0.0000452
1003.29	-0.001464	0.0000544
1005.22	-0.001434	0.0000294
1007.15	-0.001596	0.0000324
1009.08	-0.001619	0.0000209

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1011.01	-0.00151	0.0000521
1012.94	-0.00125	0.000076
1014.87	-0.00055	0.0000734
1016.8	-0.00051	0.0000713
1018.73	-0.00049	0.0000612
1020.66	-0.00066	0.0001235
1022.59	-0.0012	0.00008
1024.51	-0.00116	0.0000812
1026.44	-0.00017	0.000071
1028.37	0.000958	0.0001066
1030.3	0.000536	0.0000485
1032.23	0.001138	0.0000938
1034.16	0.001889	0.000065
1036.09	0.00166	0.0000791
1038.02	0.003192	0.0000701
1039.95	0.004351	0.0000466
1041.88	0.004793	0.000051
1043.81	0.00546	0.0000792
1045.74	0.006002	0.0000675
1047.67	0.006967	0.0000369
1049.6	0.007534	0.0000567
1051.53	0.008871	0.0000497
1053.45	0.009559	0.0000618
1055.38	0.009963	0.0000923
1057.31	0.01062	0.0000661
1059.24	0.011084	0.0000691
1061.17	0.011759	0.000061
1063.1	0.013226	0.0000277
1065.03	0.015062	0.0000646
1066.96	0.016745	0.0001187
1068.89	0.017019	0.0000597
1070.82	0.018459	0.0000998
1072.75	0.020709	0.0000557
1074.68	0.02203	0.0000296
1076.61	0.023692	0.0000489
1078.54	0.024642	0.0000922
1080.47	0.024952	0.0000721
1082.39	0.02547	0.0001426
1084.32	0.026299	0.0001237
1086.25	0.029594	0.0000864
1088.18	0.03754	0.0000223
1090.11	0.055062	0.0002017
1092.04	0.106859	0.0003954
1093.97	0.06008	0.0000352
1095.9	0.040993	0.0001354

Acetone 3.09 Mole % 48.9 Torr AS0300AV
AS0300AD

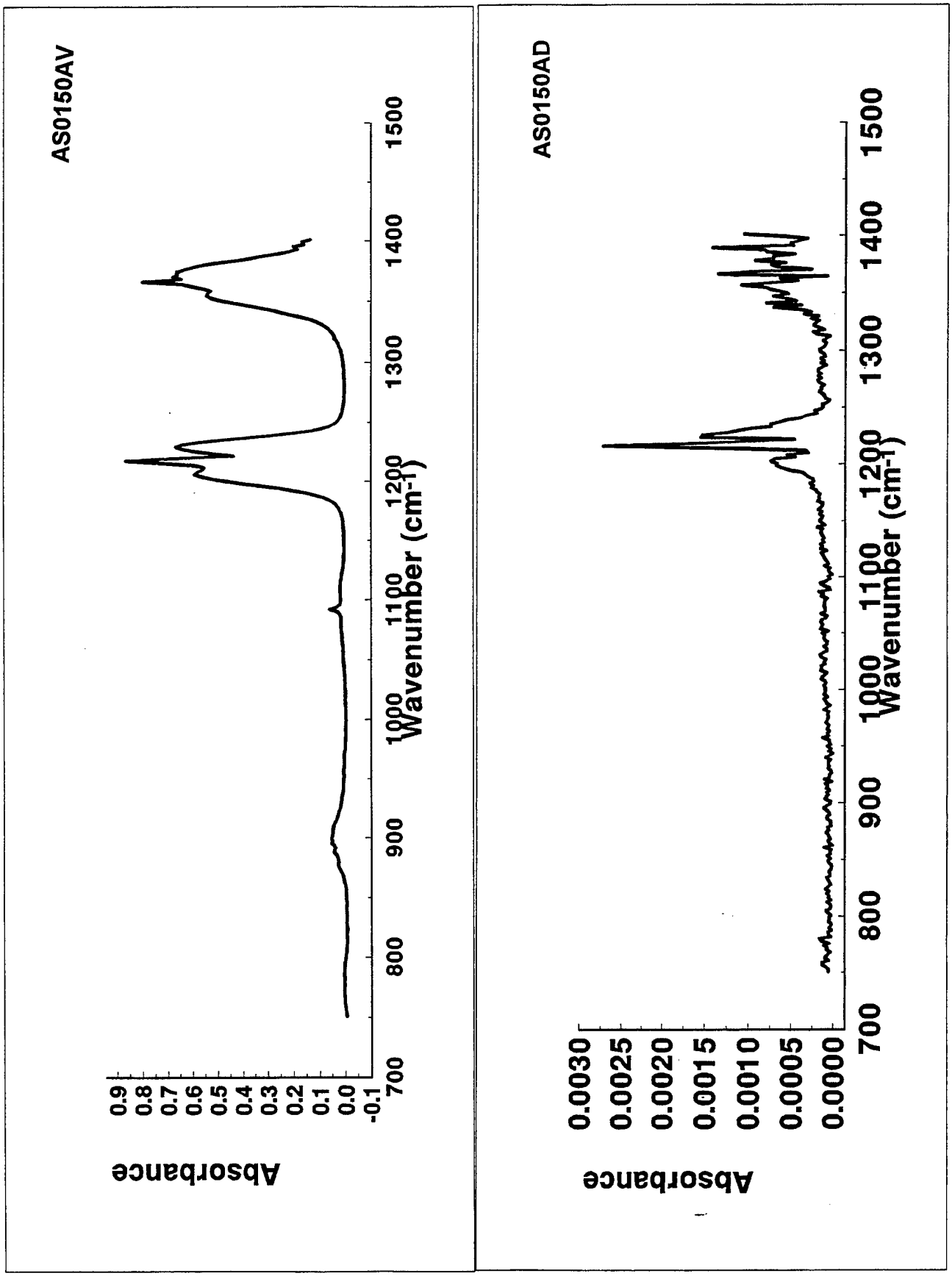
WN (cm-1)	AVE (A.U.)	AD (A.U.)
1097.83	0.0352215	0.000025
1099.76	0.0334132	0.0000596
1101.69	0.0340487	0.0000923
1103.62	0.0353653	0.0000393
1105.55	0.0366011	0.0000403
1107.48	0.0377928	0.0000889
1109.41	0.0380888	0.0000657
1111.33	0.0381979	0.0000787
1113.26	0.0367447	0.0000761
1115.19	0.0349275	0.0000103
1117.12	0.0320269	0.0000581
1119.05	0.0290708	0.0000393
1120.98	0.0265596	6.59E-06
1122.91	0.0236138	0.0000964
1124.84	0.0204969	0.0000752
1126.77	0.017651	0.0000781
1128.7	0.0149954	0.0000908
1130.63	0.0129804	0.0000925
1132.56	0.0112783	0.0001004
1134.49	0.0101241	0.000106
1136.42	0.009457	0.0000917
1138.34	0.0085716	0.000124
1140.27	0.0076755	0.0001323
1142.2	0.006662	0.0001088
1144.13	0.0068464	0.0001209
1146.06	0.0066262	0.0001243
1147.99	0.0066466	0.0001139
1149.92	0.0071799	0.0001311
1151.85	0.0069152	0.0000956
1153.78	0.0069443	0.000145
1155.71	0.0069821	0.0001223
1157.64	0.0075378	0.0001698
1159.57	0.0086105	0.0001199
1161.5	0.0099836	0.0001569
1163.43	0.0115058	0.000181
1165.36	0.0132285	0.0001264
1167.28	0.0155901	0.0001124
1169.21	0.0191653	0.0000747
1171.14	0.0233227	0.0000991
1173.07	0.0288073	0.0000864
1175	0.0358691	0.0000969
1176.93	0.0435099	0.0000655
1178.86	0.0545245	0.0001492
1180.79	0.0691369	0.000098
1182.72	0.0894876	0.0001448

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1184.65	0.117712	0.0002221
1186.58	0.157252	0.0003927
1188.51	0.210884	0.0005369
1190.44	0.282072	0.0008334
1192.37	0.366534	0.0010503
1194.3	0.46463	0.0012404
1196.22	0.57819	0.0013623
1198.15	0.703076	0.0013921
1200.08	0.825444	0.0014509
1202.01	0.929521	0.0013258
1203.94	1.009	0.0012586
1205.87	1.0562	0.0005619
1207.8	1.04311	0.0003378
1209.73	1.01154	0.0006899
1211.66	0.998785	0.0012981
1213.59	1.05887	0.0023381
1215.52	1.28889	0.0041525
1217.45	1.53624	0.0004151
1219.38	1.23291	0.0032872
1221.31	0.790003	0.0015522
1223.24	0.915482	0.0041981
1225.16	1.04764	0.0038536
1227.09	1.15062	0.003267
1229.02	1.19821	0.0034806
1230.95	1.1635	0.0035291
1232.88	1.05735	0.0028744
1234.81	0.886325	0.0020808
1236.74	0.693387	0.0010927
1238.67	0.506778	0.0007223
1240.6	0.352838	0.0003084
1242.53	0.237048	0.0002327
1244.46	0.157734	0.0001489
1246.39	0.104901	0.0000824
1248.32	0.072264	0.0000518
1250.25	0.052226	0.0000208
1252.17	0.039246	0.0001044
1254.1	0.030144	0.0001436
1256.03	0.023316	0.0001307
1257.96	0.018522	0.000113
1259.89	0.016163	0.0001013
1261.82	0.012798	0.000251
1263.75	0.010652	0.0002484
1265.68	0.009234	0.0002274
1267.61	0.008035	0.0001943
1269.54	0.007181	0.0001192

Acetone 3.09 Mole % 48.9 Torr AS0300AV AS0300AD

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1271.47	0.0069561	0.0001448
1273.4	0.0044471	0.0002691
1275.33	0.0040377	0.0002472
1277.26	0.0041304	0.0002227
1279.19	0.0041654	0.0002508
1281.11	0.0044767	0.0002354
1283.04	0.0047369	0.0001939
1284.97	0.0055559	0.0001875
1286.9	0.0073113	0.0001539
1288.83	0.0098717	0.0002855
1290.76	0.0113949	0.0001843
1292.69	0.0096128	0.0002322
1294.62	0.0108979	0.0002428
1296.55	0.0130395	0.0001704
1298.48	0.0146264	0.0001868
1300.41	0.0168129	0.0001235
1302.34	0.0198243	0.0000875
1304.27	0.0225686	0.0001111
1306.2	0.025814	0.0001442
1308.13	0.0307975	0.0001343
1310.05	0.0333599	0.0000992
1311.98	0.0398515	0.0001146
1313.91	0.0465708	0.0002067
1315.84	0.0520534	0.0001784
1317.77	0.0614864	0.0001488
1319.7	0.0738595	0.0001992
1321.63	0.0780169	0.0002834
1323.56	0.0899516	0.0000651
1325.49	0.103427	0.0001155
1327.42	0.119856	0.0001396
1329.35	0.141857	0.0002303
1331.28	0.169184	0.0001978
1333.21	0.202813	0.0003818
1335.14	0.243783	0.0004607
1337.06	0.305604	0.0008192
1338.99	0.373004	0.0010436
1340.92	0.448879	0.0006424
1342.85	0.515851	0.000998
1344.78	0.606666	0.0013555
1346.71	0.701034	0.0013286
1348.64	0.788051	0.0012977
1350.57	0.871699	0.0010444
1352.5	0.934712	0.0012848
1354.43	0.960712	0.0012895
1356.36	0.961124	0.0001414

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1358.29	0.943028	0.0015747
1360.22	0.989963	0.0023448
1362.15	1.06665	0.0010132
1364.08	1.11777	0.0010925
1366	1.33653	0.0010944
1367.93	1.13204	0.002312
1369.86	1.18389	0.0015934
1371.79	1.16306	0.0014488
1373.72	1.14864	0.0018055
1375.65	1.1119	0.0009413
1377.58	1.06557	0.0024884
1379.51	0.996411	0.0026125
1381.44	0.905439	0.0013897
1383.37	0.776595	0.0011854
1385.3	0.658485	0.00129
1387.23	0.566378	0.0016553
1389.16	0.453816	0.0003027
1391.09	0.378968	0.0005336
1393.02	0.325459	0.0011629
1394.94	0.327063	0.0007396
1396.87	0.273777	0.0002462
1398.8	0.269988	0.0010277
1400.73	0.241127	0.0006962


AS0150AV
Absorbance
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
-0.1
700
800
900
1000
1100
1200
1300
1400
1500
Wavenumber (cm-1)
AS0150AD
Absorbance
0.0030
0.0025
0.0020
0.0015
0.0010
0.0005
0.0000
700
800
900
1000
1100
1200
1300
1400
1500
Wavenumber (cm-1)

APPENDIX B

Acetone 1.50 Mole % 27.3 Torr AS0150AV AS0150AD

WN (cm-1)	AVE (A.U.)	AD (A.U.)
750.547	-0.005166	0.0000572
752.476	-0.004352	0.0000564
754.405	-0.003664	0.0000855
756.335	-0.002358	0.000127
758.264	-0.000371	0.0001264
760.194	0.0001164	0.0000513
762.123	0.0013852	0.0000958
764.052	0.001347	0.0000759
765.982	0.0018842	0.0000575
767.911	0.0030067	0.0000316
769.84	0.0040642	0.0000723
771.77	0.0043815	0.000068
773.699	0.0035856	0.0001052
775.629	0.0029395	0.0000446
777.558	0.0027914	0.0001342
779.487	0.0034602	0.0001539
781.417	0.003388	0.0000214
783.346	0.0030958	0.0000506
785.275	0.0047204	0.0000548
787.205	0.0040669	0.0000155
789.134	0.0036558	0.0000396
791.064	0.0032575	0.0000264
792.993	0.003155	0.0000184
794.922	0.0024815	0.0000475
796.852	0.0008862	0.0000406
798.781	-0.000598	0.000043
800.711	-0.001924	0.0000243
802.64	-0.003355	0.0000517
804.569	-0.004242	0.0000774
806.499	-0.00486	0.0000297
808.428	-0.005707	0.0000267
810.357	-0.006827	0.0000309
812.287	-0.006599	0.0000667
814.216	-0.006802	0.0000237
816.146	-0.006236	0.0000535
818.075	-0.00646	0.0000485
820.004	-0.006947	0.0000708
821.934	-0.007726	0.0000459
823.863	-0.00754	0.00008
825.792	-0.006186	0.0000609
827.722	-0.005895	0.0000279
829.651	-0.005648	0.0000369
831.581	-0.006645	0.0000522
833.51	-0.006886	0.0000709
835.439	-0.006629	0.0000356

WN (cm-1)	AVE (A.U.)	AD (A.U.)
837.369	-0.0054	0.0000342
839.298	-0.00523	0.0000451
841.228	-0.00499	0.0000245
843.157	-0.00596	0.0000124
845.086	-0.00618	0.0000166
847.016	-0.00568	0.0000442
848.945	-0.00423	0.0000541
850.874	-0.00341	0.0000317
852.804	-0.00334	0.0000614
854.733	-0.00328	0.000033
856.663	-0.00334	0.0000359
858.592	-0.00141	0.0000222
860.521	0.000583	0.0000997
862.451	0.003218	7.42E-06
864.38	0.004832	0.0000464
866.31	0.006718	0.0000555
868.239	0.008867	0.0000288
870.168	0.012747	0.00005
872.098	0.017711	0.0000557
874.027	0.022663	0.0000768
875.956	0.026499	0.0000496
877.886	0.026974	0.0000583
879.815	0.026438	0.0000225
881.745	0.028062	0.0000285
883.674	0.030353	0.0000265
885.603	0.033533	0.0000647
887.533	0.043445	0.0000703
889.462	0.041669	0.0000397
891.392	0.04008	0.0000473
893.321	0.041909	0.0000753
895.25	0.053486	0.0001055
897.18	0.050843	0.0000723
899.109	0.052602	0.0000343
901.038	0.051768	0.000031
902.968	0.049293	0.0000866
904.897	0.048215	0.0000774
906.827	0.04809	0.0000553
908.756	0.046984	0.0000706
910.685	0.04438	0.0000426
912.615	0.040891	0.000076
914.544	0.036422	0.0000623
916.473	0.032715	0.000087
918.403	0.030141	0.0000145
920.332	0.027764	0.000094
922.262	0.02522	0.0000396

Acetone 1.50 Mole % 27.3 Torr AS0150AV AS0150AD

WN (cm-1)	AVE (A.U.)	AD (A.U.)
924.191	0.022072	0.0000417
926.12	0.0188797	0.0000163
928.05	0.0166974	0.0000251
929.979	0.015633	0.000055
931.909	0.0147198	0.0000491
933.838	0.01362	0.0000558
935.767	0.0119124	0.0000542
937.697	0.0100616	0.0000303
939.626	0.0084903	0.0000796
941.555	0.008016	0.0000353
943.485	0.0079371	2.10E-06
945.414	0.0076136	0.000049
947.344	0.0066586	0.0000244
949.273	0.0058523	0.0000626
951.202	0.0053157	0.0000301
953.132	0.0056137	0.0000439
955.061	0.0060387	0.0000447
956.991	0.0066993	0.0001185
958.92	0.0055193	0.0000524
960.849	0.0041708	0.0000622
962.779	0.0034967	0.0000447
964.708	0.003695	0.0000657
966.637	0.0042167	0.0000572
968.567	0.0048685	0.000053
970.496	0.0035637	0.0000803
972.426	0.0022259	0.0000714
974.355	0.0007146	0.0000579
976.284	-7.67E-05	0.0000602
978.214	-2.63E-05	0.0000617
980.143	0.0000709	0.0000519
982.072	-0.000299	0.000102
984.002	-0.001202	0.0000691
985.931	-0.002015	0.0000369
987.861	-0.001998	0.0000777
989.79	-0.001663	0.0000883
991.719	-0.001341	0.0001069
993.649	-0.001497	0.0000665
995.578	-0.001959	0.0001018
997.508	-0.002443	0.0000965
999.437	-0.002678	0.0000919
1001.36	-0.001992	0.0000918
1003.29	-0.001721	0.0001051
1005.22	-0.001386	0.0000917
1007.15	-0.001552	0.0000955
1009.08	-0.001536	0.0001366

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1011.01	-0.00141	0.0001269
1012.94	-0.00109	0.0000969
1014.87	-0.00046	0.0000757
1016.8	-2.7E-05	0.0001437
1018.73	-0.00043	0.0001377
1020.66	-0.00043	0.0001381
1022.59	-0.00069	0.0000973
1024.51	-0.00057	0.0001027
1026.44	0.000461	0.0000887
1028.37	0.001122	0.0001341
1030.3	0.000945	0.0001531
1032.23	0.001307	0.0001187
1034.16	0.001851	0.0000742
1036.09	0.001754	0.0000739
1038.02	0.002837	0.0001059
1039.95	0.003935	0.0000762
1041.88	0.0042	0.0000652
1043.81	0.004671	0.0000947
1045.74	0.004823	0.0001052
1047.67	0.005852	0.0000996
1049.6	0.006273	0.0001238
1051.53	0.007473	0.0000582
1053.45	0.007871	0.0001426
1055.38	0.008039	0.0001345
1057.31	0.008313	0.0001244
1059.24	0.008169	0.0001403
1061.17	0.008686	0.0001355
1063.1	0.009868	0.0000887
1065.03	0.011289	0.0000732
1066.96	0.012284	0.0001393
1068.89	0.011928	0.0000957
1070.82	0.012519	0.0000959
1072.75	0.013962	0.0001011
1074.68	0.01466	0.0001061
1076.61	0.015601	0.0000982
1078.54	0.015684	0.0000988
1080.47	0.01555	0.0000743
1082.39	0.015519	0.0001402
1084.32	0.015731	0.0001152
1086.25	0.017576	0.0001671
1088.18	0.021597	0.0000379
1090.11	0.03155	0.0000466
1092.04	0.058412	0.0001195
1093.97	0.033003	0.000147
1095.9	0.021376	0.0000816

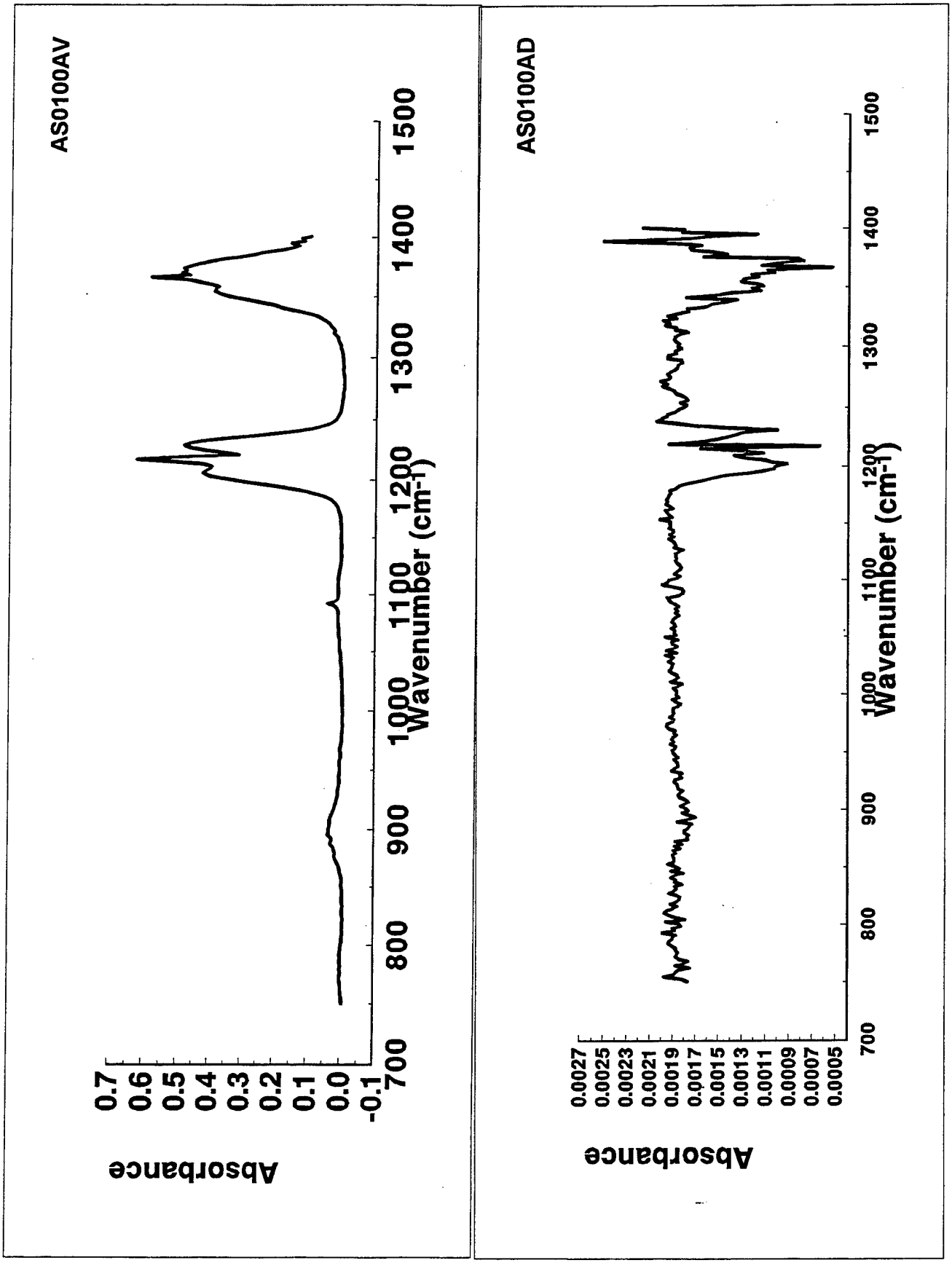
Acetone 1.50 Mole % 27.3 Torr AS0150AV AS0150AD

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1097.83	0.0187353	0.0000408
1099.76	0.0176148	0.0000557
1101.69	0.0178039	0.0000136
1103.62	0.0181811	0.0000441
1105.55	0.0186815	0.0000515
1107.48	0.0191776	0.0000412
1109.41	0.0195251	0.0000996
1111.33	0.019509	0.0000588
1113.26	0.0188954	0.000075
1115.19	0.0179438	0.0000923
1117.12	0.0162803	0.0001088
1119.05	0.0146241	0.0001186
1120.98	0.0133613	0.0001428
1122.91	0.0118799	0.0000806
1124.84	0.0102522	0.0001439
1126.77	0.0086798	0.0001281
1128.7	0.0072773	0.0001499
1130.63	0.0062497	0.0001127
1132.56	0.0053979	0.0001247
1134.49	0.0051746	0.0001144
1136.42	0.005456	0.0001284
1138.34	0.0050541	0.0001404
1140.27	0.0044684	0.0001466
1142.2	0.0040572	0.0001318
1144.13	0.0042157	0.0001844
1146.06	0.0046382	0.0001033
1147.99	0.0048387	0.0001414
1149.92	0.0053892	0.0001584
1151.85	0.0050365	0.0001371
1153.78	0.0049809	0.0001309
1155.71	0.0050518	0.0001586
1157.64	0.0054198	0.0001388
1159.57	0.0059593	0.0001755
1161.5	0.0066292	0.0001505
1163.43	0.0073932	0.000131
1165.36	0.0081615	0.0001315
1167.28	0.0091783	0.0001808
1169.21	0.0110413	0.0001663
1171.14	0.0131996	0.0001704
1173.07	0.0164089	0.0001594
1175	0.0202069	0.0001895
1176.93	0.0240011	0.0002086
1178.86	0.0301199	0.0002581
1180.79	0.0377325	0.0002343
1182.72	0.0488815	0.0002765

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1184.65	0.064826	0.0002342
1186.58	0.087038	0.0002438
1188.51	0.116925	0.0002946
1190.44	0.157043	0.0003296
1192.37	0.204172	0.0003654
1194.3	0.258967	0.0005089
1196.22	0.322773	0.0006089
1198.15	0.393383	0.000669
1200.08	0.461736	0.0006631
1202.01	0.519326	0.0007327
1203.94	0.563919	0.0006997
1205.87	0.588485	0.0004518
1207.8	0.578658	0.0005471
1209.73	0.559809	0.0002996
1211.66	0.553535	0.0003222
1213.59	0.587171	0.001252
1215.52	0.721667	0.0027116
1217.45	0.862571	0.0017763
1219.38	0.674737	0.0011051
1221.31	0.436371	0.0004639
1223.24	0.510459	0.0015416
1225.16	0.581899	0.0015249
1227.09	0.638117	0.0012467
1229.02	0.664065	0.0011274
1230.95	0.641058	0.0009806
1232.88	0.578122	0.000737
1234.81	0.483543	0.0007405
1236.74	0.37832	0.0006313
1238.67	0.276741	0.0005566
1240.6	0.193311	0.0003745
1242.53	0.130357	0.0003214
1244.46	0.087619	0.0001979
1246.39	0.058702	0.0002165
1248.32	0.041229	0.0001406
1250.25	0.030242	0.000124
1252.17	0.023141	0.000127
1254.1	0.018112	0.000071
1256.03	0.01421	0.0000474
1257.96	0.011382	0.0000953
1259.89	0.01024	0.0001075
1261.82	0.007431	0.0001326
1263.75	0.006568	0.0001672
1265.68	0.005378	0.0001416
1267.61	0.004513	0.0001443
1269.54	0.004121	0.0001154

Acetone 1.50 Mole % 27.3 Torr AS0150AV
AS0150AD

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1271.47	0.0039653	0.0001681
1273.4	0.0015114	0.0001842
1275.33	0.0011546	0.0001478
1277.26	0.0010856	0.0001808
1279.19	0.0011367	0.0001529
1281.11	0.0010556	0.000181
1283.04	0.0012866	0.0001801
1284.97	0.0016479	0.0001381
1286.9	0.0030161	0.0000878
1288.83	0.0044577	0.0001461
1290.76	0.0053762	0.0001134
1292.69	0.0035874	0.0001508
1294.62	0.0043622	0.0001032
1296.55	0.0059545	0.0001171
1298.48	0.0064511	0.0001552
1300.41	0.0075949	0.0001685
1302.34	0.0093193	0.000121
1304.27	0.0109108	0.0001019
1306.2	0.0126453	0.0000896
1308.13	0.016037	0.0001194
1310.05	0.0164694	0.0000835
1311.98	0.0211331	0.0000459
1313.91	0.0252809	0.0001967
1315.84	0.0273809	0.0002407
1317.77	0.0338331	0.0001125
1319.7	0.0420204	0.0001914
1321.63	0.0421939	0.0002328
1323.56	0.048674	0.0002116
1325.49	0.0560106	0.000173
1327.42	0.0647076	0.0002638
1329.35	0.0771703	0.0001816
1331.28	0.0924333	0.0003441
1333.21	0.111384	0.0002665
1335.14	0.134787	0.0003874
1337.06	0.174459	0.0007033
1338.99	0.215647	0.000379
1340.92	0.256372	0.0007867
1342.85	0.288022	0.0004489
1344.78	0.338607	0.0005575
1346.71	0.391255	0.0007071
1348.64	0.442168	0.0005414
1350.57	0.489589	0.0006186
1352.5	0.524561	0.0007483
1354.43	0.541561	0.0008048
1356.36	0.538009	0.0010793
1358.29	0.527244	0.0007139
1360.22	0.558272	0.0004256
1362.15	0.60855	0.0006342
1364.08	0.645363	0.0000766
1366	0.796767	0.001345
1367.93	0.646138	0.000979
1369.86	0.676254	0.0002655
1371.79	0.659658	0.0006597
1373.72	0.661639	0.0007355
1375.65	0.635142	0.000572
1377.58	0.600808	0.0009205
1379.51	0.559662	0.0007087
1381.44	0.504642	0.0007101
1383.37	0.430825	0.0004657
1385.3	0.366408	0.000789
1387.23	0.325396	0.0008109
1389.16	0.250948	0.0014109
1391.09	0.211444	0.0004803
1393.02	0.184461	0.0005051
1394.94	0.198187	0.000407
1396.87	0.158974	0.000315
1398.8	0.164093	0.0005875
1400.73	0.134256	0.001047


AS0100AV
Absorbance
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
-0.1
700
800
900
1000
1100
1200
1300
1400
1500
Wavenumber (cm-1)
AS0100AD
Absorbance
0.0027
0.0025
0.0023
0.0021
0.0019
0.0017
0.0015
0.0013
0.0011
0.0009
0.0007
0.0005
700
800
900
1000
1100
1200
1300
1400
1500
Wavenumber (cm-1)

Acetone 1.05 Mole % 19.9 Torr AS0100AV
AS0100AD

WN (cm-1)	AVE (A.U.)	AD (A.U.)
750.547	-0.0064526	0.0017713
752.476	-0.0055722	0.0018241
754.405	-0.0052013	0.0019705
756.335	-0.004399	0.0018879
758.264	-0.0026131	0.0018697
760.194	-0.0022316	0.001852
762.123	-0.0015684	0.0017504
764.052	-0.0020623	0.001871
765.982	-0.0018675	0.0017924
767.911	-0.0007302	0.0017661
769.84	0.0002722	0.0018446
771.77	0.0008803	0.0018704
773.699	-0.0001387	0.0018619
775.629	-0.0009094	0.0018535
777.558	-0.0011391	0.0018706
779.487	-0.0002098	0.0018742
781.417	-0.0003128	0.0019048
783.346	-0.0003889	0.0019342
785.275	0.0005674	0.001929
787.205	0.0001454	0.0019027
789.134	-0.0004358	0.0018981
791.064	-0.0002053	0.0018751
792.993	-0.000115	0.0019853
794.922	-0.000539	0.0018801
796.852	-0.0019292	0.0018979
798.781	-0.002758	0.0018285
800.711	-0.003673	0.0018419
802.64	-0.0048342	0.0019563
804.569	-0.0050303	0.0017921
806.499	-0.0055363	0.0018729
808.428	-0.006111	0.001934
810.357	-0.0067231	0.0019683
812.287	-0.0063808	0.0019514
814.216	-0.0065518	0.0018991
816.146	-0.005814	0.001863
818.075	-0.0060857	0.0019135
820.004	-0.0068684	0.0018697
821.934	-0.0072882	0.0018444
823.863	-0.0071621	0.0018363
825.792	-0.0060274	0.0018566
827.722	-0.0054408	0.0019269
829.651	-0.0052489	0.0018861
831.581	-0.0063156	0.0018684
833.51	-0.0067165	0.0018784
835.439	-0.0065808	0.0018211

WN (cm-1)	AVE (A.U.)	AD (A.U.)
837.369	-0.005345	0.0018783
839.298	-0.005066	0.0018763
841.228	-0.005092	0.0019111
843.157	-0.005952	0.0018839
845.086	-0.006353	0.0018101
847.016	-0.006023	0.0019124
848.945	-0.004576	0.0018413
850.874	-0.003761	0.0018774
852.804	-0.003527	0.0019387
854.733	-0.004106	0.0018907
856.663	-0.004011	0.0018876
858.592	-0.002725	0.0018915
860.521	-0.00119	0.0018987
862.451	0.0009342	0.0018777
864.38	0.0021804	0.001891
866.31	0.0033335	0.0018369
868.239	0.0047685	0.0018809
870.168	0.0075331	0.001821
872.098	0.0112346	0.0018737
874.027	0.0150898	0.0017675
875.956	0.0177928	0.0017764
877.886	0.01808	0.0017643
879.815	0.0172083	0.0017963
881.745	0.0183903	0.0017963
883.674	0.0204578	0.0017688
885.603	0.0229434	0.001758
887.533	0.0300703	0.0017353
889.462	0.0284068	0.0018545
891.392	0.0271355	0.0017745
893.321	0.0284561	0.0017025
895.25	0.0369481	0.0017611
897.18	0.0349307	0.0018108
899.109	0.0363284	0.0017659
901.038	0.0353556	0.001788
902.968	0.033294	0.001828
904.897	0.0325356	0.0018005
906.827	0.0328095	0.0017666
908.756	0.0319638	0.0017908
910.685	0.0300754	0.0018341
912.615	0.0274532	0.0018525
914.544	0.0240643	0.0018341
916.473	0.0212559	0.001814
918.403	0.0194272	0.0018507
920.332	0.0180035	0.0018595
922.262	0.0162201	0.0018623

Acetone 1.05 Mole % 19.9 Torr AS0100AV
AS0100AD

WN (cm-1)	AVE (A.U.)	AD (A.U.)
924.191	0.013851	0.0018856
926.12	0.0113908	0.001879
928.05	0.0099406	0.0018232
929.979	0.0095523	0.0018373
931.909	0.0093804	0.0018225
933.838	0.0088262	0.0019054
935.767	0.007625	0.0018863
937.697	0.0063232	0.0018537
939.626	0.0052481	0.0018575
941.555	0.0052593	0.0018632
943.485	0.0054879	0.0018874
945.414	0.0053873	0.0018541
947.344	0.0044283	0.0018756
949.273	0.0039459	0.0018939
951.202	0.0035805	0.0019002
953.132	0.0038591	0.0018819
955.061	0.0043984	0.0018786
956.991	0.0050761	0.001918
958.92	0.003669	0.0018938
960.849	0.0023901	0.001906
962.779	0.0018158	0.001899
964.708	0.0019787	0.0018686
966.637	0.0026213	0.00189
968.567	0.0029929	0.0018828
970.496	0.0020878	0.0019349
972.426	0.000592	0.0019532
974.355	-0.0007293	0.0019468
976.284	-0.0017726	0.0019029
978.214	-0.0020578	0.0018939
980.143	-0.0017827	0.0019278
982.072	-0.0023496	0.0019012
984.002	-0.0030144	0.0018929
985.931	-0.003828	0.0018995
987.861	-0.0039732	0.0018946
989.79	-0.0035138	0.0018571
991.719	-0.0030432	0.0018341
993.649	-0.003044	0.0018714
995.578	-0.003456	0.0019021
997.508	-0.0040931	0.0018494
999.437	-0.0038708	0.0018715
1001.36	-0.003441	0.0018673
1003.29	-0.0030268	0.001867
1005.22	-0.0027737	0.0018953
1007.15	-0.00265	0.0018525
1009.08	-0.0028405	0.0018215

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1011.01	-0.002786	0.0019185
1012.94	-0.002289	0.0018773
1014.87	-0.001775	0.0018567
1016.8	-0.001186	0.0018662
1018.73	-0.001435	0.0019089
1020.66	-0.001711	0.0019331
1022.59	-0.001861	0.0019144
1024.51	-0.001641	0.0019076
1026.44	-0.000647	0.0019013
1028.37	7.68E-06	0.0019365
1030.3	-0.000202	0.0019141
1032.23	0.0001322	0.0018979
1034.16	0.0004319	0.0019633
1036.09	0.0004761	0.0018687
1038.02	0.001568	0.0019561
1039.95	0.0023201	0.0018938
1041.88	0.0027588	0.0018656
1043.81	0.0029697	0.0019041
1045.74	0.003235	0.0019113
1047.67	0.0040047	0.0018579
1049.6	0.0047345	0.001966
1051.53	0.00598	0.0018744
1053.45	0.0064441	0.0018894
1055.38	0.0064003	0.0018845
1057.31	0.0068391	0.0019135
1059.24	0.0066186	0.0018817
1061.17	0.0070575	0.0018881
1063.1	0.0080623	0.0019084
1065.03	0.0093127	0.0019008
1066.96	0.0103449	0.0018775
1068.89	0.0096553	0.0018486
1070.82	0.0101783	0.0018799
1072.75	0.0111403	0.0018582
1074.68	0.0116647	0.0018803
1076.61	0.0121652	0.0018519
1078.54	0.0124381	0.0018849
1080.47	0.0118837	0.0019191
1082.39	0.0118764	0.001938
1084.32	0.0115931	0.0019492
1086.25	0.012866	0.0018458
1088.18	0.0155945	0.0018216
1090.11	0.0226258	0.001813
1092.04	0.0418166	0.0018243
1093.97	0.0226836	0.0018981
1095.9	0.014183	0.0019936

Acetone 1.05 Mole % 19.9 Torr AS0100AV
AS0100AD

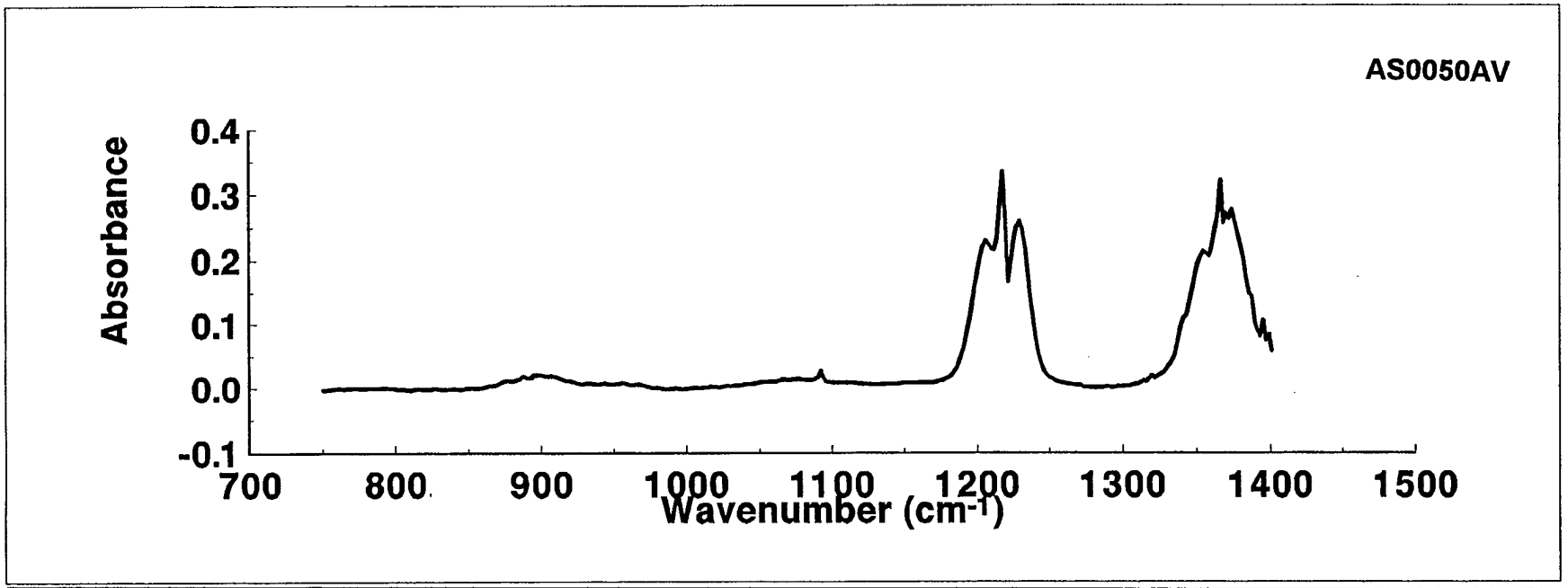
WN (cm-1)	AVE (A.U.)	AD (A.U.)
1097.83	0.0122378	0.0019497
1099.76	0.0113935	0.0019382
1101.69	0.0109661	0.0018644
1103.62	0.011438	0.0018425
1105.55	0.0113995	0.0018893
1107.48	0.0118281	0.001864
1109.41	0.0121462	0.0018383
1111.33	0.0120361	0.0018346
1113.26	0.0115722	0.0018434
1115.19	0.0111888	0.0018659
1117.12	0.0099657	0.0018785
1119.05	0.0085245	0.0018733
1120.98	0.0081189	0.001878
1122.91	0.0070649	0.0018794
1124.84	0.0059908	0.0018549
1126.77	0.0051887	0.0018169
1128.7	0.0042628	0.0018903
1130.63	0.0035581	0.0018765
1132.56	0.0029636	0.0018888
1134.49	0.0031922	0.0019013
1136.42	0.0035249	0.0019368
1138.34	0.0035038	0.0018985
1140.27	0.002992	0.0019326
1142.2	0.0026348	0.0019007
1144.13	0.0030358	0.0019024
1146.06	0.0035196	0.0019387
1147.99	0.0038261	0.0019266
1149.92	0.0045136	0.0019305
1151.85	0.0042206	0.0019261
1153.78	0.004047	0.0020164
1155.71	0.0040398	0.0019148
1157.64	0.0043175	0.0019383
1159.57	0.0048755	0.0019541
1161.5	0.0051076	0.0019695
1163.43	0.0056572	0.0019064
1165.36	0.0061839	0.0019368
1167.28	0.0065946	0.001964
1169.21	0.0078963	0.0019529
1171.14	0.0091941	0.001959
1173.07	0.0112545	0.0019443
1175	0.0141338	0.0019392
1176.93	0.0163118	0.0019237
1178.86	0.0205819	0.001933
1180.79	0.0258433	0.0018786
1182.72	0.0337293	0.0018607

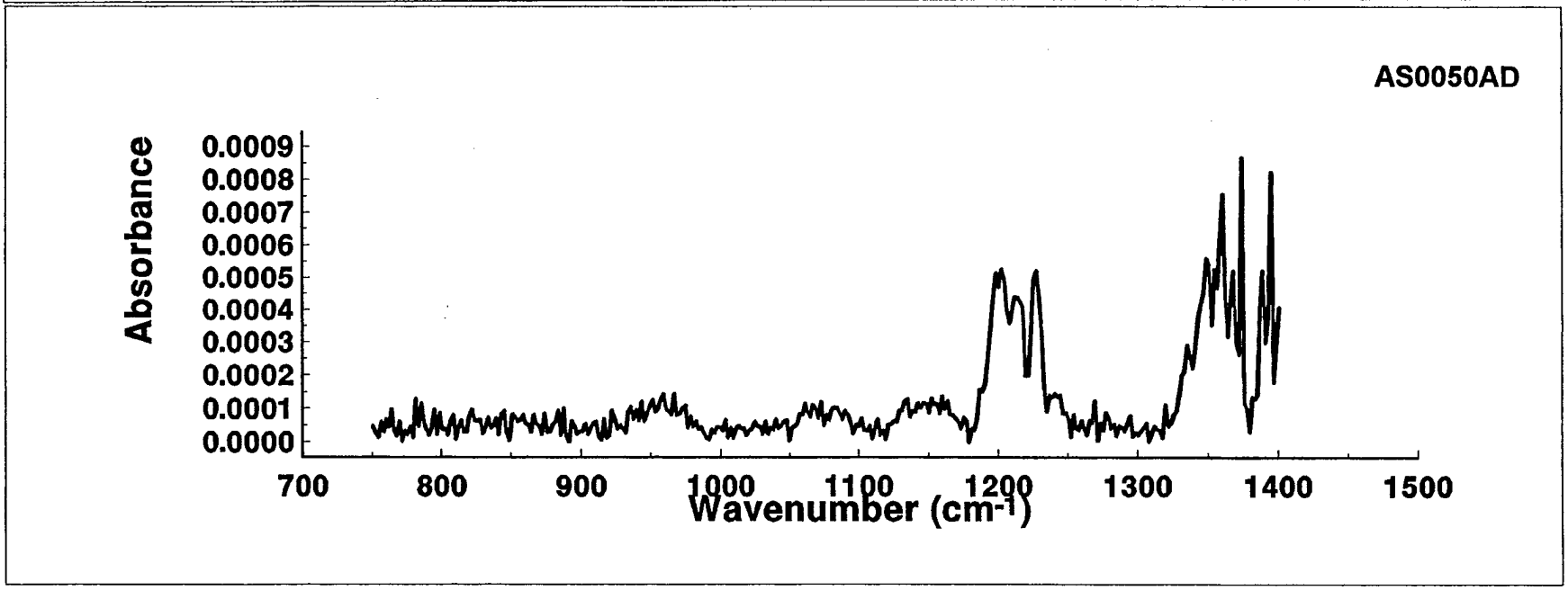
WN (cm-1)	AVE (A.U.)	AD (A.U.)
1184.65	0.0447922	0.0017974
1186.58	0.0606064	0.0016953
1188.51	0.0819855	0.001617
1190.44	0.11106	0.0015355
1192.37	0.145075	0.0014439
1194.3	0.184813	0.0012375
1196.22	0.231093	0.0011156
1198.15	0.282615	0.0010337
1200.08	0.331993	0.0010244
1202.01	0.373994	0.0009288
1203.94	0.40598	0.0010605
1205.87	0.423497	0.0011172
1207.8	0.415887	0.001304
1209.73	0.402182	0.0013696
1211.66	0.397475	0.0011269
1213.59	0.423491	0.0013016
1215.52	0.521193	0.0016637
1217.45	0.621765	0.00065
1219.38	0.485606	0.0019389
1221.31	0.312712	0.0016477
1223.24	0.368028	0.0015294
1225.16	0.4203	0.0014458
1227.09	0.460598	0.0013616
1229.02	0.479814	0.0013048
1230.95	0.462748	0.0010072
1232.88	0.41745	0.0014004
1234.81	0.349099	0.0017345
1236.74	0.272461	0.0018611
1238.67	0.198974	0.0020429
1240.6	0.139176	0.0020114
1242.53	0.0937781	0.0019602
1244.46	0.0632185	0.0019538
1246.39	0.0422192	0.0018879
1248.32	0.0299954	0.0018653
1250.25	0.0217626	0.0018103
1252.17	0.0166438	0.0017906
1254.1	0.0126939	0.0018398
1256.03	0.0094371	0.001781
1257.96	0.0076747	0.0018034
1259.89	0.0067838	0.001832
1261.82	0.0046622	0.0018839
1263.75	0.0037402	0.0019013
1265.68	0.0029893	0.0019404
1267.61	0.0023361	0.0019984
1269.54	0.0019971	0.001958

Acetone 1.05 Mole % 19.9 Torr AS0100AV
AS0100AD

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1271.47	0.0019274	0.0020133
1273.4	-0.0010084	0.0019467
1275.33	-0.00123	0.0019326
1277.26	-0.0012483	0.001953
1279.19	-0.0013322	0.0019309
1281.11	-0.0013208	0.0018908
1283.04	-0.0015445	0.0018734
1284.97	-0.0011523	0.0018624
1286.9	0.0000144	0.0018283
1288.83	0.0010917	0.0018356
1290.76	0.0017107	0.0019558
1292.69	-0.0001925	0.0019493
1294.62	0.0007271	0.0018806
1296.55	0.0021741	0.0018883
1298.48	0.0023235	0.001835
1300.41	0.0030963	0.0018661
1302.34	0.0043362	0.0018538
1304.27	0.005275	0.0018792
1306.2	0.0067732	0.0018971
1308.13	0.0093452	0.0018874
1310.05	0.0094077	0.0018566
1311.98	0.0130791	0.0017822
1313.91	0.0166437	0.0018857
1315.84	0.0175134	0.0018829
1317.77	0.0227718	0.0019747
1319.7	0.0298456	0.0019369
1321.63	0.0280766	0.0019933
1323.56	0.0326802	0.0018808
1325.49	0.0375159	0.0019546
1327.42	0.0437309	0.0018616
1329.35	0.0525816	0.0017774
1331.28	0.063553	0.0017859
1333.21	0.0768972	0.0016154
1335.14	0.0937726	0.001572
1337.06	0.125259	0.0014472
1338.99	0.156147	0.0013561
1340.92	0.186966	0.0017907
1342.85	0.205594	0.0015097
1344.78	0.242285	0.0014189
1346.71	0.28043	0.0011571
1348.64	0.317318	0.0012252
1350.57	0.351951	0.0011357
1352.5	0.376638	0.0011868
1354.43	0.389663	0.001316

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1356.36	0.386103	0.0013004
1358.29	0.37915	0.0011751
1360.22	0.401063	0.0012264
1362.15	0.441734	0.0010407
1364.08	0.47131	0.0010944
1366	0.583537	0.0005461
1367.93	0.469318	0.00114
1369.86	0.491894	0.0010152
1371.79	0.47913	0.000792
1373.72	0.486264	0.0008327
1375.65	0.465536	0.0016411
1377.58	0.438261	0.0014408
1379.51	0.407909	0.0015716
1381.44	0.366019	0.0017501
1383.37	0.313027	0.0017656
1385.3	0.265744	0.0016615
1387.23	0.241678	0.0019066
1389.16	0.183069	0.0025059
1391.09	0.153595	0.0017706
1393.02	0.134151	0.0016087
1394.94	0.15483	0.0011861
1396.87	0.118999	0.0018311
1398.8	0.125034	0.0018133
1400.73	0.0988125	0.0021702


AS0050AV
Absorbance
0.4
0.3
0.2
0.1
0.0
-0.1
700
800
900
1000
1100
1200
1300
1400
1500
Wavenumber (cm-1)


AS0050AD
Absorbance
0.0009
0.0008
0.0007
0.0006
0.0005
0.0004
0.0003
0.0002
0.0001
0.0000
700
800
900
1000
1100
1200
1300
1400
1500
Wavenumber (cm-1)

Acetone 0.53 Mole % 10.6 Torr AS0050AV AS0050AD

WN (cm-1)	AVE (A.U.)	AD (A.U.)
750.547	-0.002903	0.0000451
752.476	-0.0030645	0.000025
754.405	-0.0025198	0.0000138
756.335	-0.0021911	0.0000574
758.264	-0.0012962	0.000031
760.194	-0.0005876	0.0000659
762.123	-0.0005737	0.0000439
764.052	-0.0013349	0.0000946
765.982	-0.0011367	0.0000292
767.911	-0.0007616	0.0000178
769.84	-0.0003016	0.0000586
771.77	0.0002049	2.60E-06
773.699	-0.0001881	0.0000318
775.629	-0.0007433	0.0000225
777.558	-0.0007058	0.0000444
779.487	-0.00038	0.0000146
781.417	-0.0001136	0.0001263
783.346	-0.0001337	0.0000458
785.275	0.0001768	0.0001131
787.205	-0.0001733	0.0000579
789.134	-0.0005842	0.0000369
791.064	0.0003027	0.0000214
792.993	0.0005847	0.0000393
794.922	0.0002677	0.0000942
796.852	-0.0001153	0.0000233
798.781	-0.000491	0.0000842
800.711	-0.0013838	0.0000378
802.64	-0.0015481	0.0000379
804.569	-0.0013645	0.0000218
806.499	-0.002019	0.0000636
808.428	-0.0024071	0.0000784
810.357	-0.0027762	8.90E-06
812.287	-0.0022471	0.0000425
814.216	-0.0018053	0.000061
816.146	-0.001179	0.0000306
818.075	-0.0016311	0.0000304
820.004	-0.0021991	0.0000764
821.934	-0.0025664	0.0000937
823.863	-0.0024865	0.0000645
825.792	-0.0013578	0.0000637
827.722	-0.0007635	0.0000643
829.651	-0.0008636	0.0000255
831.581	-0.0016311	0.000044
833.51	-0.0022072	0.0000697
835.439	-0.001939	0.0000429

WN (cm-1)	AVE (A.U.)	AD (A.U.)
837.369	-0.0015704	0.0000474
839.298	-0.0010049	0.0000675
841.228	-0.0009513	0.0000226
843.157	-0.0019687	0.0000814
845.086	-0.0022649	0.000091
847.016	-0.0019993	0.000022
848.945	-0.0006457	5.61E-06
850.874	-0.0003176	0.0000804
852.804	0.0001409	0.0000743
854.733	-0.0006053	0.0000621
856.663	-0.0006647	0.0000661
858.592	-0.0002079	0.0000791
860.521	0.0012556	0.0000547
862.451	0.0025403	0.0000521
864.38	0.0033223	0.00003
866.31	0.0037522	0.0000777
868.239	0.0041458	0.0000536
870.168	0.0058021	0.0000484
872.098	0.0081622	0.0000242
874.027	0.0104535	0.0000824
875.956	0.0117086	0.0000293
877.886	0.0116829	0.0000319
879.815	0.01095	0.0000516
881.745	0.0116627	0.0000613
883.674	0.0129447	0.0000913
885.603	0.0144468	0.0000212
887.533	0.0182269	0.0000969
889.462	0.0171183	0.0000135
891.392	0.0159032	1.48E-06
893.321	0.0165358	0.0000601
895.25	0.0213119	0.0000502
897.18	0.0206043	0.0000245
899.109	0.021273	0.0000308
901.038	0.0203644	0.0000332
902.968	0.0188929	0.0000522
904.897	0.0185743	0.0000232
906.827	0.018694	0.0000429
908.756	0.0183338	0.0000554
910.685	0.0173838	0.0000592
912.615	0.0159224	0.0000136
914.544	0.0135119	7.11E-06
916.473	0.0118162	0.0000663
918.403	0.0113499	0.0000123
920.332	0.0107384	0.0000193
922.262	0.0101892	0.0000922

Acetone 0.53 Mole % 10.6 Torr AS0050AV
AS0050AD

WN (cm-1)	AVE (A.U.)	AD (A.U.)
924.191	0.0087247	0.0000641
926.12	0.0071612	0.0000397
928.05	0.0063847	0.0000481
929.979	0.0066096	0.0000384
931.909	0.0072232	0.0000284
933.838	0.0075635	0.0000884
935.767	0.0071116	0.0001035
937.697	0.0065018	0.0000701
939.626	0.0061277	0.0000936
941.555	0.006473	0.0000657
943.485	0.0072619	0.0001186
945.414	0.0070892	0.0000646
947.344	0.0065783	0.0000859
949.273	0.0065082	0.0001035
951.202	0.0062302	0.0001229
953.132	0.00672	0.0000912
955.061	0.0072141	0.0000988
956.991	0.0080583	0.0001254
958.92	0.0066387	0.0001415
960.849	0.0051222	0.000098
962.779	0.0046137	0.0000922
964.708	0.0050757	0.0000826
966.637	0.0055547	0.0001429
968.567	0.0058936	0.0000812
970.496	0.0048234	0.0000853
972.426	0.0032609	0.0000971
974.355	0.0016371	0.0001061
976.284	0.0004101	0.0000441
978.214	0.0002222	0.0000738
980.143	0.0003376	0.0000465
982.072	-0.000117	0.0000601
984.002	-0.0009881	0.0000401
985.931	-0.0017964	0.0000419
987.861	-0.0017811	0.0000247
989.79	-0.0014146	0.0000116
991.719	-0.0006376	8.19E-06
993.649	-0.0005101	0.0000351
995.578	-0.0009054	0.0000265
997.508	-0.0014872	0.0000435
999.437	-0.0012857	0.0000427
1001.36	-0.0007324	0.0000333
1003.29	-0.0000889	0.0000632
1005.22	0.0003273	0.0000133
1007.15	0.0005314	0.0000404
1009.08	0.0002436	0.0000137

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1011.01	0.0003649	0.0000379
1012.94	0.0009434	0.0000467
1014.87	0.0013889	0.0000408
1016.8	0.0020641	0.0000391
1018.73	0.0018687	0.0000206
1020.66	0.0016012	0.0000329
1022.59	0.0011977	0.0000401
1024.51	0.0017012	0.0000587
1026.44	0.0027639	0.0000474
1028.37	0.0035248	0.0000457
1030.3	0.0028917	0.0000249
1032.23	0.0035237	0.0000597
1034.16	0.0037688	0.000025
1036.09	0.0038389	0.0000413
1038.02	0.004746	0.0000379
1039.95	0.0057719	0.0000653
1041.88	0.0063589	0.0000414
1043.81	0.0064575	0.0000485
1045.74	0.0067447	0.0000606
1047.67	0.0073452	0.0000632
1049.6	0.0083501	4.42E-06
1051.53	0.0093908	0.0000416
1053.45	0.010011	0.0000463
1055.38	0.0100044	0.0000557
1057.31	0.0103214	0.000083
1059.24	0.0100817	0.0000817
1061.17	0.0104384	0.0001128
1063.1	0.0113017	0.0000869
1065.03	0.012607	0.0000755
1066.96	0.0136403	0.0001083
1068.89	0.0126189	0.0001012
1070.82	0.0128428	0.0000729
1072.75	0.013516	0.0001182
1074.68	0.0136733	0.0000514
1076.61	0.0140857	0.0000799
1078.54	0.0136909	0.0000675
1080.47	0.01313	0.0000959
1082.39	0.0125622	0.0001019
1084.32	0.0123633	0.0001006
1086.25	0.0128142	0.0000832
1088.18	0.0141303	0.0000691
1090.11	0.0174196	0.0000916
1092.04	0.0263561	0.0000811
1093.97	0.0158852	0.0000604
1095.9	0.0106245	0.0000261

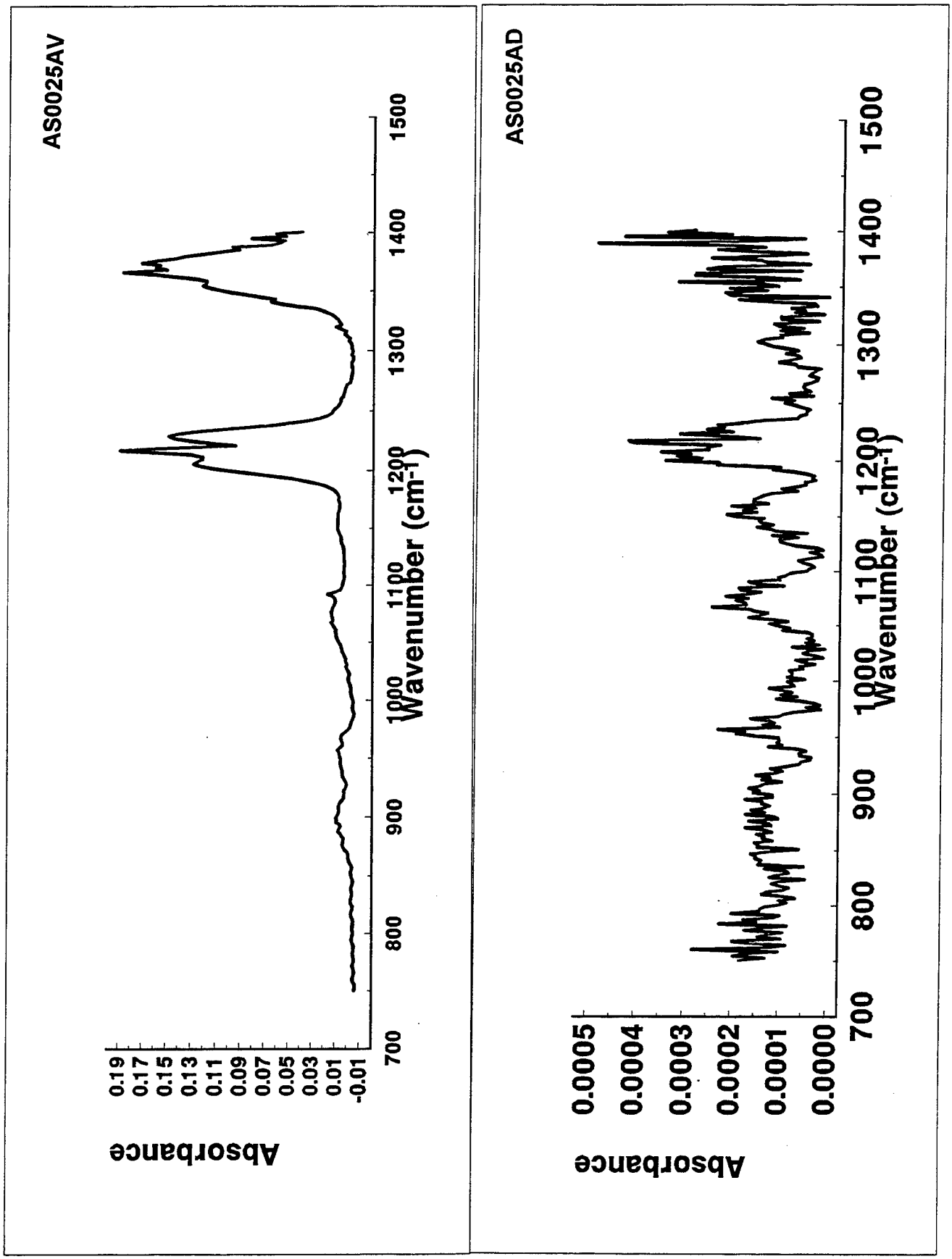
Acetone 0.53 Mole % 10.6 Torr AS0050AV
AS0050AD

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1097.83	0.0095306	0.0000507
1099.76	0.0088834	0.0000467
1101.69	0.0086781	0.0000683
1103.62	0.0085878	0.0000365
1105.55	0.0083992	0.000033
1107.48	0.0082541	0.0000471
1109.41	0.0084537	0.0000108
1111.33	0.0086502	0.0000386
1113.26	0.0082042	0.0000655
1115.19	0.0081508	0.0000216
1117.12	0.0073847	0.0000339
1119.05	0.0067439	8.60E-06
1120.98	0.0068098	0.0000507
1122.91	0.0064529	0.000053
1124.84	0.0061004	0.0000623
1126.77	0.0056106	0.0000606
1128.7	0.0054222	0.0000919
1130.63	0.0051867	0.0000938
1132.56	0.005105	0.0001209
1134.49	0.0054761	0.0001255
1136.42	0.0062665	0.0000761
1138.34	0.0065381	0.0000921
1140.27	0.0062616	0.0000908
1142.2	0.006045	0.0001128
1144.13	0.0065979	0.0001018
1146.06	0.0071807	0.0001158
1147.99	0.0078321	0.0001127
1149.92	0.0083041	0.0000882
1151.85	0.0082421	0.0001294
1153.78	0.0079781	0.0001126
1155.71	0.0080026	0.0001132
1157.64	0.0081656	0.0000873
1159.57	0.0082552	0.0001343
1161.5	0.0085	0.0000992
1163.43	0.0086659	0.0001201
1165.36	0.0084293	0.0000812
1167.28	0.0084278	0.000079
1169.21	0.0087388	0.00007
1171.14	0.0091859	0.0000623
1173.07	0.010363	0.0000415
1175	0.0119683	0.00007
1176.93	0.012573	0.0000648
1178.86	0.0146823	2.53E-07
1180.79	0.0171967	0.000038
1182.72	0.0213881	0.0000353

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1184.65	0.0273767	0.0000732
1186.58	0.0357468	0.0001555
1188.51	0.0471945	0.0001516
1190.44	0.0628481	0.0001751
1192.37	0.0814579	0.000254
1194.3	0.103004	0.0003406
1196.22	0.12835	0.0004492
1198.15	0.156427	0.0005126
1200.08	0.182447	0.0004704
1202.01	0.204471	0.0005227
1203.94	0.220918	0.0004936
1205.87	0.229188	0.0003952
1207.8	0.224236	0.0003591
1209.73	0.217295	0.0003969
1211.66	0.216616	0.0004374
1213.59	0.232346	0.000438
1215.52	0.285413	0.0004242
1217.45	0.333404	0.0004072
1219.38	0.256485	0.0001996
1221.31	0.167421	0.0002003
1223.24	0.200365	0.0003379
1225.16	0.230049	0.0004913
1227.09	0.250491	0.0005175
1229.02	0.259057	0.0004372
1230.95	0.247799	0.0003347
1232.88	0.221823	0.0001564
1234.81	0.184676	0.0000922
1236.74	0.144153	0.0001378
1238.67	0.10586	0.0001332
1240.6	0.075217	0.0001429
1242.53	0.0523137	0.0001348
1244.46	0.0368979	0.0001379
1246.39	0.0259764	0.0000852
1248.32	0.0203106	0.0000859
1250.25	0.0164412	0.0000695
1252.17	0.0139866	0.000016
1254.1	0.0115664	0.0000785
1256.03	0.0095738	0.0000385
1257.96	0.0085857	0.0000364
1259.89	0.0082875	0.0000611
1261.82	0.0061446	0.000039
1263.75	0.0058082	0.0000218
1265.68	0.0049996	0.0000633
1267.61	0.0046087	0.0000564
1269.54	0.0043012	0.0001209

Acetone 0.53 Mole % 10.6 Torr AS0050AV AS0050AD

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1271.47	0.004083	4.43E-06
1273.4	0.001201	0.0000566
1275.33	0.0008969	0.0000341
1277.26	0.0008944	0.0000846
1279.19	0.0003501	0.0000718
1281.11	0.0003568	0.0000404
1283.04	0.0003115	0.0000505
1284.97	0.0006329	0.0000195
1286.9	0.001165	0.000046
1288.83	0.0018216	0.0000441
1290.76	0.0018531	0.0000327
1292.69	0.0004656	0.0000522
1294.62	0.0010291	0.0000746
1296.55	0.0022289	0.0000165
1298.48	0.0018645	0.0000275
1300.41	0.0020658	0.0000211
1302.34	0.0031044	0.0000304
1304.27	0.0031505	0.0000406
1306.2	0.0042557	0.0000551
1308.13	0.0059793	2.74E-06
1310.05	0.0058005	0.0000244
1311.98	0.0082206	0.0000446
1313.91	0.010974	0.0000369
1315.84	0.0105999	0.0000336
1317.77	0.0146427	0.0000133
1319.7	0.0195082	0.0001092
1321.63	0.0162935	0.0000475
1323.56	0.0188203	0.0000564
1325.49	0.0214539	0.0000815
1327.42	0.0248775	0.0000912
1329.35	0.029771	0.000143
1331.28	0.0359376	0.000198
1333.21	0.0433132	0.0002093
1335.14	0.0535261	0.0002894
1337.06	0.0750111	0.0002569
1338.99	0.0951576	0.000222
1340.92	0.109463	0.0002829
1342.85	0.113889	0.0003705
1344.78	0.13413	0.0004197
1346.71	0.154876	0.0004536
1348.64	0.175229	0.0005568
1350.57	0.193091	0.0005397
1352.5	0.205567	0.0003538
1354.43	0.213102	0.000525
1356.36	0.209623	0.0004682
1358.29	0.207129	0.0006107
1360.22	0.221208	0.0007541
1362.15	0.247067	0.000444
1364.08	0.265447	0.0003177
1366	0.320441	0.0004185
1367.93	0.257726	0.0005189
1369.86	0.270465	0.0002951
1371.79	0.263851	0.0002637
1373.72	0.275774	0.000865
1375.65	0.259372	0.0001158
1377.58	0.239392	0.000099
1379.51	0.223202	0.0000302
1381.44	0.200358	0.0001328
1383.37	0.172343	0.0001286
1385.3	0.148151	0.000141
1387.23	0.143833	0.0003988
1389.16	0.102078	0.0005188
1391.09	0.0889714	0.0002987
1393.02	0.0810506	0.0003739
1394.94	0.105762	0.0008219
1396.87	0.0749529	0.000181
1398.8	0.0833073	0.0003076
1400.73	0.0583117	0.0004041


AS0025AV
Absorbance
0.19
0.17
0.15
0.13
0.11
0.09
0.07
0.05
0.03
0.01
-0.01
700
800
900
1000
1100
1200
1300
1400
1500
Wavenumber (cm-1)
AS0025AD
Absorbance
0.0005
0.0004
0.0003
0.0002
0.0001
0.0000
700
800
900
1000
1100
1200
1300
1400
1500
Wavenumber (cm-1)

Acetone 0.29 Mole % 5.9 Torr AS0025AV
AS0025AD

WN (cm-1)	AVE (A.U.)	AD (A.U.)	WN (cm-1)	AVE (A.U.)	AD (A.U.)
750.547	-0.0066011	0.0001809	837.369	-0.004046	0.0001408
752.476	-0.0069592	0.0001274	839.298	-0.003759	0.0001381
754.405	-0.0068801	0.0001934	841.228	-0.004305	0.0001357
756.335	-0.0066162	0.0001737	843.157	-0.004704	0.0001481
758.264	-0.0052978	0.0000994	845.086	-0.005023	0.0001473
760.194	-0.0050771	0.0002785	847.016	-0.004891	0.0001565
762.123	-0.0053555	0.0001138	848.945	-0.003929	0.0001224
764.052	-0.0060571	0.0000829	850.874	-0.003539	0.0000568
765.982	-0.0063773	0.0001592	852.804	-0.003375	0.0001431
767.911	-0.0060297	0.0001947	854.733	-0.004017	0.0001418
769.84	-0.0052612	0.0000932	856.663	-0.004243	0.0001489
771.77	-0.005105	0.0001408	858.592	-0.003987	0.0001126
773.699	-0.0053735	0.0001229	860.521	-0.002539	0.0001319
775.629	-0.006098	0.0000897	862.451	-0.001803	0.0001293
777.558	-0.0060975	0.000169	864.38	-0.001271	0.0001439
779.487	-0.0054942	0.0001337	866.31	-0.001088	0.0001139
781.417	-0.0053381	0.0000805	868.239	-0.001128	0.0001289
783.346	-0.005256	0.0002223	870.168	0.0000253	0.0001684
785.275	-0.0055701	0.000144	872.098	0.0017551	0.0001151
787.205	-0.005524	0.0001721	874.027	0.0029501	0.0001197
789.134	-0.0058909	0.0001101	875.956	0.0036847	0.000162
791.064	-0.0052793	0.0000966	877.886	0.0033741	0.0001014
792.993	-0.0045745	0.0001967	879.815	0.0031383	0.0001083
794.922	-0.0043958	0.0001389	881.745	0.0030211	0.0001681
796.852	-0.0046401	0.0001373	883.674	0.0043567	0.0001282
798.781	-0.0049441	0.0001285	885.603	0.0053598	0.0001567
800.711	-0.0053445	0.0000993	887.533	0.007578	0.0001297
802.64	-0.0047843	0.0000811	889.462	0.0066464	0.0001199
804.569	-0.0048263	0.0000971	891.392	0.0057456	0.0001348
806.499	-0.0050661	0.0000634	893.321	0.0059151	0.0001343
808.428	-0.0050306	0.000089	895.25	0.0090577	0.0001688
810.357	-0.0052187	0.0001328	897.18	0.0088321	0.0001129
812.287	-0.0051497	0.000122	899.109	0.0093351	0.0001135
814.216	-0.0042277	0.000088	901.038	0.0084099	0.0001528
816.146	-0.0038405	0.000077	902.968	0.0071015	0.0001398
818.075	-0.0038244	0.000096	904.897	0.0068397	0.0001619
820.004	-0.0043613	0.0001123	906.827	0.0070599	0.0001397
821.934	-0.004853	0.0000995	908.756	0.0071764	0.0001289
823.863	-0.0049014	0.0000433	910.685	0.0067085	0.0000931
825.792	-0.0038653	0.0001168	912.615	0.0053813	0.0001349
827.722	-0.0033754	0.0001035	914.544	0.0036414	0.0001179
829.651	-0.0035254	0.0000768	916.473	0.0025995	0.0001469
831.581	-0.0040083	0.0000803	918.403	0.0027355	0.0001049
833.51	-0.0045549	0.000128	920.332	0.0025546	0.0000916
835.439	-0.0046176	0.0000456	922.262	0.0025905	0.0001167

Acetone 0.29 Mole % 5.9 Torr AS0025AV
AS0025AD

WN (cm-1)	AVE (A.U.)	AD (A.U.)
924.191	0.0014496	0.0000813
926.12	0.0006258	0.0000558
928.05	0.0004366	0.0000524
929.979	0.0011587	0.0000335
931.909	0.0022712	0.0000318
933.838	0.0034618	0.0000545
935.767	0.0039368	0.0000561
937.697	0.0038822	0.0000428
939.626	0.0041897	0.0000581
941.555	0.0047211	0.0001208
943.485	0.0055265	0.0000929
945.414	0.0055928	0.0001037
947.344	0.0056937	0.0000988
949.273	0.0054631	0.0001014
951.202	0.0060851	0.0001511
953.132	0.0067238	0.0001895
955.061	0.0069985	0.000172
956.991	0.0081925	0.0002271
958.92	0.006097	0.0000983
960.849	0.0042591	0.0001336
962.779	0.0040617	0.0001093
964.708	0.0046211	0.0001191
966.637	0.0053101	0.0001593
968.567	0.0053275	0.000099
970.496	0.0038574	0.0000904
972.426	0.0017361	0.0000665
974.355	-0.0005236	0.0000134
976.284	-0.002001	0.0000416
978.214	-0.0028551	0.0000154
980.143	-0.0030974	0.0000266
982.072	-0.0037014	0.0000503
984.002	-0.0045186	0.000105
985.931	-0.0052935	0.0000619
987.861	-0.0054884	0.0000962
989.79	-0.005165	0.0000721
991.719	-0.0044593	0.0000947
993.649	-0.0043171	0.0001201
995.578	-0.0044803	0.0000683
997.508	-0.0049067	0.0000732
999.437	-0.004895	0.0000819
1001.36	-0.0041217	0.0000466
1003.29	-0.0036076	0.0000818
1005.22	-0.0029921	0.0000728
1007.15	-0.0028079	0.0000724
1009.08	-0.0030786	0.0000781

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1011.01	-0.002829	0.0000498
1012.94	-0.002352	0.0000564
1014.87	-0.001637	0.0000255
1016.8	-0.000913	0.000048
1018.73	-0.000901	0.0000642
1020.66	-0.001329	9.96E-06
1022.59	-0.001526	0.0000256
1024.51	-0.001137	0.0000497
1026.44	0.000126	0.0000415
1028.37	0.0011255	5.93E-06
1030.3	0.0003829	0.0000715
1032.23	0.0010396	0.0000173
1034.16	0.0016341	0.0000435
1036.09	0.0013777	0.000028
1038.02	0.0028103	0.0000407
1039.95	0.0033851	0.0000316
1041.88	0.0043521	0.0000317
1043.81	0.0046945	0.0000391
1045.74	0.0051429	0.0000928
1047.67	0.005976	0.0000783
1049.6	0.0071719	0.0001042
1051.53	0.0082691	0.000121
1053.45	0.0092038	0.0000822
1055.38	0.0094531	0.0001171
1057.31	0.0099208	0.0001651
1059.24	0.0098966	0.0001397
1061.17	0.0102302	0.0001262
1063.1	0.0112027	0.0001541
1065.03	0.0123674	0.0001646
1066.96	0.013631	0.0002416
1068.89	0.0125292	0.0001718
1070.82	0.0127984	0.0001733
1072.75	0.0135625	0.0001918
1074.68	0.0134318	0.0001672
1076.61	0.0136391	0.0002134
1078.54	0.0132721	0.0001697
1080.47	0.0123836	0.0001406
1082.39	0.0114034	0.0001828
1084.32	0.0106154	0.0001859
1086.25	0.010726	0.0000922
1088.18	0.0110352	0.000149
1090.11	0.0124974	0.0001655
1092.04	0.0166951	0.0001007
1093.97	0.0101004	0.0001037
1095.9	0.0063867	0.0000878

Acetone 0.29 Mole % 5.9 Torr AS0025AV
AS0025AD

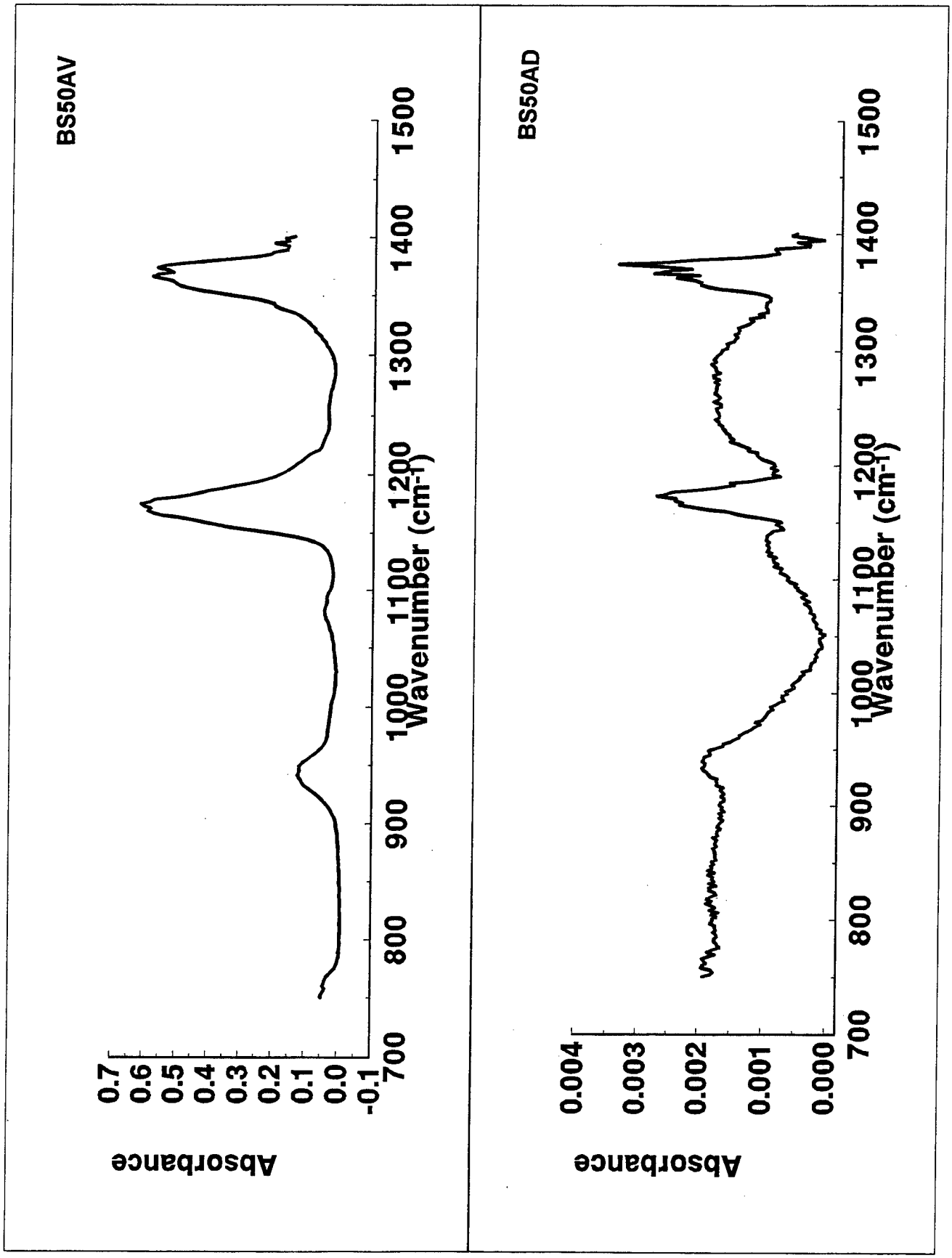
WN (cm-1)	AVE (A.U.)	AD (A.U.)
1097.83	0.0052333	0.0000778
1099.76	0.0045395	0.0000431
1101.69	0.0041126	0.0000396
1103.62	0.0037666	0.0000289
1105.55	0.0032929	0.0000352
1107.48	0.0030596	0.0000516
1109.41	0.0031182	0.0000605
1111.33	0.0033656	0.0000389
1113.26	0.0033216	0.0000123
1115.19	0.0033154	0.0000172
1117.12	0.0028736	0.0000374
1119.05	0.0026268	0.0000119
1120.98	0.0029384	0.0000246
1122.91	0.0030856	0.0000679
1124.84	0.0031657	0.0000845
1126.77	0.0030969	0.0000993
1128.7	0.003374	0.0001018
1130.63	0.0033718	0.0000621
1132.56	0.0036604	0.0001171
1134.49	0.0042345	0.0000447
1136.42	0.0053204	0.0001096
1138.34	0.0056185	0.0001204
1140.27	0.0057297	0.0001485
1142.2	0.0058172	0.0001167
1144.13	0.0066168	0.0001399
1146.06	0.0075225	0.0001457
1147.99	0.0083188	0.0001361
1149.92	0.0090772	0.000191
1151.85	0.0090142	0.0002126
1153.78	0.0085952	0.0001517
1155.71	0.0086083	0.0001794
1157.64	0.0086375	0.0001529
1159.57	0.0085339	0.0002028
1161.5	0.0084184	0.0001272
1163.43	0.0083614	0.000158
1165.36	0.0077901	0.0001569
1167.28	0.0072643	0.0001462
1169.21	0.0071105	0.0001355
1171.14	0.0069191	0.0001187
1173.07	0.0073598	0.0000647
1175	0.0082652	0.0000975
1176.93	0.0077879	0.0000634
1178.86	0.008369	0.000047
1180.79	0.0094096	0.0000485
1182.72	0.0112449	0.0000285
1184.65	0.0143053	0.0000345
1186.58	0.0186552	0.000031
1188.51	0.0244293	0.0000447
1190.44	0.0328991	0.0000757
1192.37	0.0431306	0.0001178
1194.3	0.0555851	0.0001013
1196.22	0.070089	0.0002342
1198.15	0.0861902	0.0002318
1200.08	0.101163	0.0003406
1202.01	0.113649	0.0002679
1203.94	0.123243	0.0003185
1205.87	0.128338	0.0002897
1207.8	0.125623	0.0003502
1209.73	0.121673	0.0002532
1211.66	0.121397	0.0002559
1213.59	0.13044	0.0002292
1215.52	0.161153	0.000404
1217.45	0.189089	0.0004168
1219.38	0.14632	0.0001458
1221.31	0.0950243	0.0002193
1223.24	0.113774	0.0003115
1225.16	0.131349	0.0002025
1227.09	0.143012	0.000256
1229.02	0.148426	0.0002216
1230.95	0.142716	0.0002334
1232.88	0.128237	0.0001822
1234.81	0.107004	0.0001503
1236.74	0.0842715	0.0000666
1238.67	0.0622495	0.0000624
1240.6	0.0452942	0.0000479
1242.53	0.0320804	0.0000474
1244.46	0.0232973	0.0000411
1246.39	0.0170653	0.0000595
1248.32	0.0142356	0.0000732
1250.25	0.0126207	0.000093
1252.17	0.0110637	0.0000739
1254.1	0.009001	0.0001211
1256.03	0.0074822	0.0000346
1257.96	0.0064014	0.0000835
1259.89	0.0063719	0.00004
1261.82	0.0046603	0.0000511
1263.75	0.003996	0.0000537
1265.68	0.0034375	0.0000525
1267.61	0.0026698	0.0000384
1269.54	0.0022604	0.0000262

Acetone 0.29 Mole % 5.9 Torr AS0025AV AS0025AD

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1271.47	0.0015739	0.0000251
1273.4	-0.0012663	0.0000411
1275.33	-0.0019653	0.0000367
1277.26	-0.0022593	0.0000281
1279.19	-0.0026589	0.0000208
1281.11	-0.003118	0.0000666
1283.04	-0.0033365	0.0000707
1284.97	-0.0033196	0.0001055
1286.9	-0.0029076	0.0000796
1288.83	-0.0024438	0.0000603
1290.76	-0.0029171	0.0000663
1292.69	-0.0040672	0.0000911
1294.62	-0.0037105	0.000067
1296.55	-0.0028104	0.0000916
1298.48	-0.0032589	0.0001212
1300.41	-0.0033043	0.000134
1302.34	-0.0025688	0.0001518
1304.27	-0.00253	0.0001387
1306.2	-0.0020584	0.0001001
1308.13	-0.0003942	0.000104
1310.05	-0.0009208	0.0000443
1311.98	0.0011478	0.0001035
1313.91	0.0031831	0.0000547
1315.84	0.0020809	0.0001077
1317.77	0.0058205	0.0001172
1319.7	0.0103043	0.0000238
1321.63	0.0062238	0.0001012
1323.56	0.007459	0.0001029
1325.49	0.0087603	0.0000136
1327.42	0.0106044	0.0000727
1329.35	0.013564	0.0000524
1331.28	0.0168456	0.0000806
1333.21	0.0215225	0.0000278
1335.14	0.0276257	0.000033
1337.06	0.0434674	0.000135
1338.99	0.0573345	0.000192
1340.92	0.0660338	3.90E-06
1342.85	0.0623987	0.0002084
1344.78	0.0739004	0.00022
1346.71	0.0861319	0.0001331
1348.64	0.0983163	0.0002114
1350.57	0.108631	0.0001095
1352.5	0.11618	0.0001388
1354.43	0.121342	0.0003175
1356.36	0.118932	0.0000649
1358.29	0.118819	0.0001399
1360.22	0.126245	0.0002836
1362.15	0.146374	0.0002815
1364.08	0.159974	0.0000612
1366	0.186788	0.0002591
1367.93	0.151092	0.0002261
1369.86	0.160136	0.0000434
1371.79	0.156648	0.000138
1373.72	0.17099	0.0001464
1375.65	0.159839	0.000249
1377.58	0.144267	0.0001378
1379.51	0.135942	0.0000489
1381.44	0.122209	0.000159
1383.37	0.106335	0.0002365
1385.3	0.092868	0.0001378
1387.23	0.0975757	0.0002041
1389.16	0.0656556	0.000484
1391.09	0.0582731	0.0001611
1393.02	0.0547587	0.000055
1394.94	0.081972	0.0004284
1396.87	0.0533005	0.0002075
1398.8	0.0611368	0.0003408
1400.73	0.0393942	0.0002835

APPENDIX C

2-BUTANONE ABSORBANCE SPECTRA


BS50AV
Absorbance
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
-0.1
700
800
900
1000
1100
1200
1300
1400
1500
Wavenumber (cm-1)
BS50AD
Absorbance
0.004
0.003
0.002
0.001
0.000
700
800
900
1000
1100
1200
1300
1400
1500
Wavenumber (cm-1)

2-Butanone 5.08 Mole % 51.6 Torr B S50AV
B S50AD

WN (cm-1)	AVE (A.U.)	AD (A.U.)
750.547	0.0477729	0.0019156
752.476	0.0476843	0.0017826
754.405	0.0438077	0.0017558
756.335	0.0398871	0.0017859
758.264	0.0382487	0.0019326
760.194	0.0414645	0.0019156
762.123	0.0398444	0.001861
764.052	0.0377459	0.0018886
765.982	0.0352309	0.0019162
767.911	0.0312142	0.0018277
769.84	0.0253661	0.0017252
771.77	0.0183206	0.0018348
773.699	0.011753	0.0017574
775.629	0.0068546	0.0016471
777.558	0.0032671	0.0016806
779.487	0.00055	0.0016941
781.417	-0.0019832	0.001729
783.346	-0.0035549	0.0017308
785.275	-0.0054164	0.0016903
787.205	-0.0059065	0.0017023
789.134	-0.0057093	0.0017399
791.064	-0.0059422	0.0017105
792.993	-0.0068435	0.0017194
794.922	-0.0074156	0.0017243
796.852	-0.0077496	0.0017942
798.781	-0.0074721	0.0017647
800.711	-0.0074376	0.0017626
802.64	-0.0075704	0.0017019
804.569	-0.0081339	0.0017665
806.499	-0.0082773	0.0016748
808.428	-0.0088238	0.0017954
810.357	-0.0088936	0.0017229
812.287	-0.0083015	0.0017771
814.216	-0.0076057	0.001858
816.146	-0.0079231	0.0017792
818.075	-0.0083804	0.0018498
820.004	-0.0085145	0.0017846
821.934	-0.0083788	0.0017086
823.863	-0.0074634	0.0017287
825.792	-0.0069809	0.0018075
827.722	-0.0070381	0.0018188
829.651	-0.0076793	0.001712
831.581	-0.00785	0.0018065
833.51	-0.0075895	0.0017349
835.439	-0.0070031	0.0017714

WN (cm-1)	AVE (A.U.)	AD (A.U.)
837.369	-0.0063918	0.0017603
839.298	-0.0065141	0.001831
841.228	-0.0071163	0.0017339
843.157	-0.007417	0.00183
845.086	-0.0069048	0.0017749
847.016	-0.0063117	0.0017837
848.945	-0.0056964	0.0017492
850.874	-0.0057206	0.0017738
852.804	-0.0060572	0.0017128
854.733	-0.0061366	0.0017322
856.663	-0.005925	0.001727
858.592	-0.0051243	0.0017245
860.521	-0.0040387	0.0017365
862.451	-0.0036873	0.0017555
864.38	-0.0039111	0.0017075
866.31	-0.0038321	0.0017305
868.239	-0.0034351	0.0017205
870.168	-0.0024617	0.001702
872.098	-0.0017793	0.0017559
874.027	-0.0015126	0.0016865
875.956	-0.0014619	0.0017008
877.886	-0.0014689	0.001691
879.815	-0.0005197	0.0016496
881.745	-0.0009226	0.0016904
883.674	0.0004933	0.0016695
885.603	0.0005841	0.0016423
887.533	0.0011463	0.0016092
889.462	0.0008029	0.0016565
891.392	0.0019584	0.0016299
893.321	0.0025344	0.0016564
895.25	0.0044101	0.0015936
897.18	0.0055025	0.0016335
899.109	0.0060682	0.0016237
901.038	0.0070263	0.0016582
902.968	0.0087645	0.0016437
904.897	0.0108037	0.0015912
906.827	0.0142767	0.0015973
908.756	0.0177611	0.0016324
910.685	0.0209859	0.0015961
912.615	0.0249173	0.0016258
914.544	0.0295977	0.0016509
916.473	0.0351316	0.0016106
918.403	0.0413189	0.0017099
920.332	0.0480852	0.0017082
922.262	0.0549375	0.0017193

2-Butanone 5.08 Mole % 51.6 Torr B S50AV
B S50AD

WN (cm-1)	AVE (A.U.)	AD (A.U.)
924.191	0.0616859	0.0017058
926.12	0.0698746	0.0018062
928.05	0.0785825	0.0018438
929.979	0.0882375	0.0018709
931.909	0.0976329	0.0019233
933.838	0.106198	0.0019404
935.767	0.110865	0.0019096
937.697	0.11284	0.0018975
939.626	0.117982	0.0019388
941.555	0.121441	0.0019207
943.485	0.120159	0.0019131
945.414	0.117382	0.0018204
947.344	0.117568	0.0018274
949.273	0.117563	0.0018349
951.202	0.112231	0.0017375
953.132	0.105121	0.0016237
955.061	0.0961793	0.0016106
956.991	0.0860551	0.0015046
958.92	0.0761265	0.0014489
960.849	0.0670181	0.0013759
962.779	0.059195	0.001362
964.708	0.0527907	0.001301
966.637	0.0470585	0.0012296
968.567	0.042618	0.0011727
970.496	0.038719	0.0011263
972.426	0.0359958	0.0010478
974.355	0.0340689	0.0011138
976.284	0.033484	0.0010119
978.214	0.0326332	0.0009879
980.143	0.0322373	0.0009567
982.072	0.0310657	0.0009321
984.002	0.0296509	0.0009028
985.931	0.0285916	0.0008465
987.861	0.0283552	0.0008803
989.79	0.0275962	0.000814
991.719	0.0261885	0.0007477
993.649	0.0255266	0.0006786
995.578	0.0245097	0.0006954
997.508	0.0243108	0.0007012
999.437	0.0235177	0.0006221
1001.36	0.0231934	0.0006428
1003.29	0.0214343	0.000565
1005.22	0.0191706	0.0005194
1007.15	0.0164781	0.0005457
1009.08	0.0147185	0.0005163

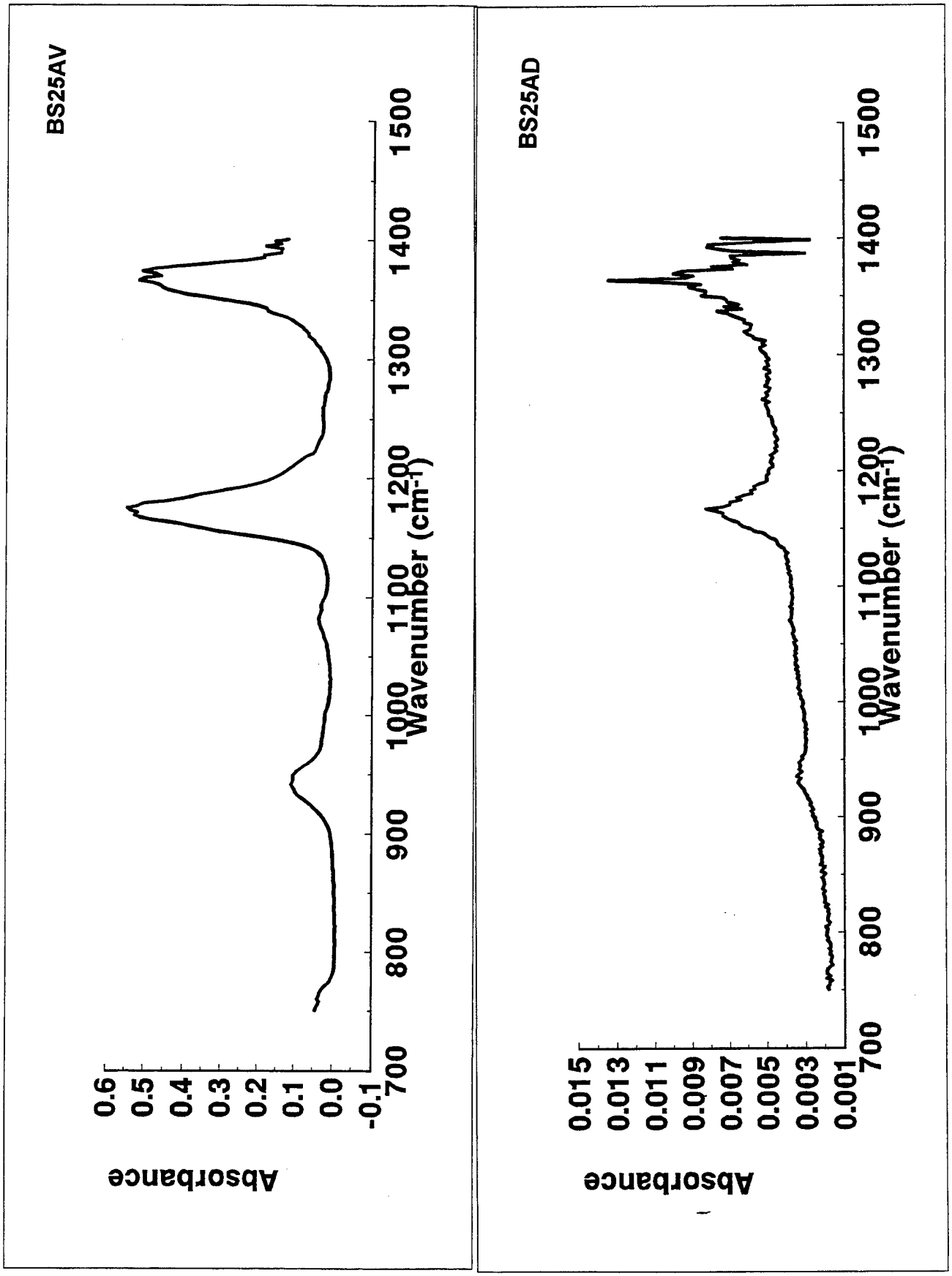
WN (cm-1)	AVE (A.U.)	AD (A.U.)
1011.01	0.0136977	0.0004669
1012.94	0.0126005	0.0004349
1014.87	0.0119857	0.0004202
1016.8	0.0113735	0.0003638
1018.73	0.0107928	0.0003861
1020.66	0.0103105	0.0002673
1022.59	0.0099368	0.0002677
1024.51	0.0091343	0.0002579
1026.44	0.0091743	0.0002528
1028.37	0.0097111	0.0001945
1030.3	0.0076964	0.0001914
1032.23	0.0090469	0.0001625
1034.16	0.0105483	0.0001769
1036.09	0.0094085	0.0001545
1038.02	0.010811	0.0001355
1039.95	0.0108092	0.0000834
1041.88	0.0116178	0.0000877
1043.81	0.0127306	0.0001066
1045.74	0.0138609	0.0001176
1047.67	0.0147656	0.0001245
1049.6	0.0155216	0.0000789
1051.53	0.0162752	0.0000405
1053.45	0.0172322	0.0001112
1055.38	0.0181497	0.0001065
1057.31	0.0202522	0.0001691
1059.24	0.0207556	0.0001822
1061.17	0.0213431	0.000174
1063.1	0.023252	0.0002078
1065.03	0.0264018	0.0002316
1066.96	0.0300677	0.0002084
1068.89	0.0297868	0.0002183
1070.82	0.0326338	0.0002794
1072.75	0.0355485	0.0002668
1074.68	0.0386901	0.0002804
1076.61	0.0411378	0.0003073
1078.54	0.0431028	0.0003675
1080.47	0.0443906	0.000298
1082.39	0.0443242	0.0003655
1084.32	0.0430148	0.0004109
1086.25	0.0405087	0.0003463
1088.18	0.0377359	0.0004059
1090.11	0.0369986	0.0004732
1092.04	0.0377174	0.0004747
1093.97	0.0379455	0.0005199
1095.9	0.0351435	0.0004998

2-Butanone 5.08 Mole % 51.6 Torr B S50AV
B S50AD

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1097.83	0.031962	0.0005973
1099.76	0.0288426	0.0006406
1101.69	0.0261014	0.0006252
1103.62	0.0241063	0.000668
1105.55	0.022587	0.0007488
1107.48	0.0215271	0.0007489
1109.41	0.0208011	0.0007336
1111.33	0.0197284	0.0008376
1113.26	0.0194625	0.0007964
1115.19	0.0196524	0.0008491
1117.12	0.0202817	0.000864
1119.05	0.0209114	0.0008245
1120.98	0.0220249	0.0009274
1122.91	0.0234081	0.0008856
1124.84	0.0249558	0.0009559
1126.77	0.0264565	0.0009306
1128.7	0.0283861	0.0009332
1130.63	0.0307888	0.0009605
1132.56	0.0339235	0.0009317
1134.49	0.0375774	0.0009741
1136.42	0.0431053	0.0009621
1138.34	0.0504542	0.0009595
1140.27	0.0606186	0.0009088
1142.2	0.0748878	0.0008714
1144.13	0.0958442	0.0007171
1146.06	0.12434	0.0007551
1147.99	0.161121	0.0008188
1149.92	0.20559	0.0007495
1151.85	0.253732	0.0008544
1153.78	0.303582	0.0010451
1155.71	0.348098	0.0012803
1157.64	0.384496	0.0014625
1159.57	0.419804	0.0015851
1161.5	0.456584	0.0019185
1163.43	0.493397	0.0021502
1165.36	0.544433	0.0023505
1167.28	0.575949	0.0023085
1169.21	0.589906	0.0024237
1171.14	0.58218	0.0024174
1173.07	0.602158	0.002718
1175	0.611506	0.0025451
1176.93	0.580489	0.0024578
1178.86	0.568967	0.0020158
1180.79	0.498662	0.0017007
1182.72	0.456992	0.0014907
1184.65	0.428627	0.0015431
1186.58	0.39818	0.001211
1188.51	0.360745	0.0010154
1190.44	0.320718	0.000777
1192.37	0.282654	0.0008784
1194.3	0.248413	0.0008736
1196.22	0.221017	0.0008186
1198.15	0.199172	0.0009017
1200.08	0.182719	0.0008522
1202.01	0.169611	0.0008747
1203.94	0.157611	0.0009498
1205.87	0.146778	0.0010476
1207.8	0.136227	0.0011039
1209.73	0.127124	0.0011294
1211.66	0.118159	0.0011315
1213.59	0.108625	0.0012656
1215.52	0.100388	0.0012562
1217.45	0.0922049	0.0013458
1219.38	0.0782429	0.0014356
1221.31	0.0638207	0.0015481
1223.24	0.0584768	0.0015021
1225.16	0.0553896	0.0015564
1227.09	0.0522541	0.0015641
1229.02	0.0498272	0.0016131
1230.95	0.0471196	0.0016359
1232.88	0.0442566	0.0016661
1234.81	0.0405594	0.0016807
1236.74	0.0376058	0.0017285
1238.67	0.0352351	0.0017354
1240.6	0.0349354	0.001784
1242.53	0.0341766	0.0017297
1244.46	0.0343926	0.0017282
1246.39	0.0341775	0.0017392
1248.32	0.0350367	0.0017632
1250.25	0.0355927	0.0017741
1252.17	0.0360974	0.0017025
1254.1	0.0362153	0.0017094
1256.03	0.0359405	0.0018046
1257.96	0.0355644	0.0017502
1259.89	0.0355985	0.0017199
1261.82	0.0335161	0.0017547
1263.75	0.0332634	0.0018006
1265.68	0.0324943	0.00178
1267.61	0.0314149	0.0017774
1269.54	0.0306708	0.0017761

2-Butanone 5.08 Mole % 51.6 Torr BS50AV BS50AD

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1271.47	0.0290338	0.0017497
1273.4	0.0254372	0.0017983
1275.33	0.0238448	0.0017347
1277.26	0.0222083	0.0018098
1279.19	0.0209378	0.0018261
1281.11	0.0198914	0.0017231
1283.04	0.0180631	0.0017897
1284.97	0.0179214	0.0017859
1286.9	0.0177319	0.0018091
1288.83	0.018113	0.0018508
1290.76	0.0184522	0.0017894
1292.69	0.0187146	0.0018147
1294.62	0.0200734	0.0017833
1296.55	0.0227697	0.0017604
1298.48	0.0242739	0.0017104
1300.41	0.0272572	0.0016912
1302.34	0.030928	0.00162
1304.27	0.0341394	0.0016074
1306.2	0.0384814	0.0016174
1308.13	0.04321	0.00151
1310.05	0.0461676	0.00149
1311.98	0.051564	0.0014568
1313.91	0.0578129	0.0014926
1315.84	0.0611326	0.0014394
1317.77	0.0693786	0.0014245
1319.7	0.0777707	0.0014401
1321.63	0.0785278	0.0013377
1323.56	0.0849339	0.001259
1325.49	0.0919976	0.0012113
1327.42	0.0997434	0.0012587
1329.35	0.108822	0.0010508
1331.28	0.118191	0.0011217
1333.21	0.12837	0.0009871
1335.14	0.140722	0.0009946
1337.06	0.163292	0.0010112
1338.99	0.183603	0.0010068
1340.92	0.198471	0.0010095
1342.85	0.203012	0.0009491
1344.78	0.224276	0.0009463
1346.71	0.254775	0.0009844
1348.64	0.295418	0.0011099
1350.57	0.341613	0.0013084
1352.5	0.388842	0.0017361
1354.43	0.43477	0.0019264
1356.36	0.47043	0.0020343
1358.29	0.495126	0.0020381
1360.22	0.506756	0.0021387
1362.15	0.516927	0.0024262
1364.08	0.539545	0.002072
1366	0.578426	0.0027887
1367.93	0.566893	0.0026333
1369.86	0.518061	0.0021908
1371.79	0.53067	0.0026757
1373.72	0.562932	0.0033585
1375.65	0.540522	0.0025719
1377.58	0.481677	0.0021595
1379.51	0.410461	0.0014085
1381.44	0.331534	0.0010065
1383.37	0.262005	0.0008183
1385.3	0.21403	0.0008588
1387.23	0.204986	0.0008705
1389.16	0.165098	0.0003447
1391.09	0.16231	0.000344
1393.02	0.160102	0.0005249
1394.94	0.199645	0.00012
1396.87	0.159163	0.000369
1398.8	0.168088	0.0006078
1400.73	0.142269	0.0005484


BS25AV
Absorbance
0.6
0.5
0.4
0.3
0.2
0.1
0.0
-0.1
700
800
900
1000
1100
1200
1300
1400
1500
Wavenumber (cm-1)
BS25AD
Absorbance
0.015
0.013
0.011
0.009
0.007
0.005
0.003
0.001
700
800
900
1000
1100
1200
1300
1400
1500
Wavenumber (cm-1)

2-Butanone 2.61 Mole % 41.4 Torr BS25AV
BS25AD

WN (cm-1)	AVE (A.U.)	AD (A.U.)
750.547	0.0432978	0.0018003
752.476	0.0420528	0.0018479
754.405	0.0387646	0.0017501
756.335	0.0353549	0.0017567
758.264	0.0337977	0.0016281
760.194	0.0365304	0.001893
762.123	0.0348668	0.0017288
764.052	0.033003	0.0018834
765.982	0.0307927	0.0019031
767.911	0.0273976	0.0018487
769.84	0.0219824	0.0017561
771.77	0.0155032	0.0016038
773.699	0.009713	0.0016915
775.629	0.0055873	0.0016739
777.558	0.0026478	0.0016417
779.487	-0.0002878	0.0016443
781.417	-0.002345	0.0017534
783.346	-0.003865	0.0017158
785.275	-0.0054566	0.0017655
787.205	-0.0057243	0.0017113
789.134	-0.005799	0.0017272
791.064	-0.0059904	0.0017357
792.993	-0.0065914	0.0018708
794.922	-0.0069538	0.0018357
796.852	-0.0072997	0.0019139
798.781	-0.0068738	0.001902
800.711	-0.0070942	0.0018928
802.64	-0.0069429	0.001849
804.569	-0.0075738	0.0019479
806.499	-0.0078794	0.0017845
808.428	-0.0082645	0.0017424
810.357	-0.0078615	0.0018456
812.287	-0.0075153	0.0018558
814.216	-0.0070199	0.0018066
816.146	-0.0073183	0.0017886
818.075	-0.0075809	0.0018358
820.004	-0.0076988	0.0018144
821.934	-0.0078878	0.0019596
823.863	-0.0067227	0.0018344
825.792	-0.0064702	0.0020123
827.722	-0.0062828	0.0020012
829.651	-0.0070678	0.0019918
831.581	-0.0071673	0.0020329
833.51	-0.0068883	0.0020813
835.439	-0.0059286	0.0019914

WN (cm-1)	AVE (A.U.)	AD (A.U.)
837.369	-0.0058104	0.0021074
839.298	-0.0057827	0.0020812
841.228	-0.0063555	0.0020367
843.157	-0.0067872	0.0020397
845.086	-0.0063761	0.0020554
847.016	-0.0058534	0.0021363
848.945	-0.0054557	0.0020592
850.874	-0.0051184	0.0019797
852.804	-0.0054469	0.0021749
854.733	-0.0056106	0.0021017
856.663	-0.0056049	0.0019982
858.592	-0.0048691	0.0022179
860.521	-0.0037563	0.0021453
862.451	-0.0035023	0.0021778
864.38	-0.0036912	0.0021351
866.31	-0.0038403	0.0021608
868.239	-0.0034933	0.0022216
870.168	-0.0026674	0.0022053
872.098	-0.0018248	0.0022492
874.027	-0.0014648	0.0021305
875.956	-0.0018093	0.0022123
877.886	-0.0019936	0.0020959
879.815	-0.0009984	0.0021814
881.745	-0.0011908	0.0022627
883.674	-0.0000195	0.0022353
885.603	0.0000606	0.0022739
887.533	0.0005933	0.0021447
889.462	0.0002395	0.0023454
891.392	0.0012428	0.00243
893.321	0.0018192	0.0024244
895.25	0.0033589	0.0024199
897.18	0.0043602	0.0025096
899.109	0.0049064	0.0025009
901.038	0.005322	0.0026195
902.968	0.0068344	0.0026096
904.897	0.0091556	0.0026744
906.827	0.0121157	0.0026091
908.756	0.015104	0.0026604
910.685	0.0181678	0.002752
912.615	0.0213694	0.0027091
914.544	0.0257093	0.002771
916.473	0.0307019	0.0028749
918.403	0.0362167	0.002891
920.332	0.0423069	0.0030004
922.262	0.0486148	0.0030504

2-Butanone 2.61 Mole % 41.4 Torr B|S25AV
B|S25AD

WN (cm-1)	AVE (A.U.)	AD (A.U.)
924.191	0.0546038	0.0030679
926.12	0.0615977	0.0031859
928.05	0.0696878	0.0032936
929.979	0.0783197	0.0033763
931.909	0.0865234	0.0033568
933.838	0.0939556	0.0032407
935.767	0.0981748	0.0034481
937.697	0.0999181	0.0033153
939.626	0.104491	0.0031932
941.555	0.107436	0.0033119
943.485	0.106219	0.003278
945.414	0.103625	0.0032654
947.344	0.103437	0.0033103
949.273	0.103308	0.0032398
951.202	0.0985107	0.0031396
953.132	0.09235	0.0031756
955.061	0.084044	0.0030419
956.991	0.0750466	0.0030145
958.92	0.0658661	0.002996
960.849	0.0578463	0.002983
962.779	0.0508389	0.0029943
964.708	0.045056	0.0029562
966.637	0.0400728	0.0029507
968.567	0.0360895	0.0029803
970.496	0.032488	0.003004
972.426	0.0299996	0.0029814
974.355	0.0285973	0.0029957
976.284	0.0277899	0.0029389
978.214	0.027191	0.0030132
980.143	0.0268367	0.0029792
982.072	0.025822	0.0030024
984.002	0.0246949	0.003073
985.931	0.0236139	0.0030615
987.861	0.0234386	0.0030596
989.79	0.0228163	0.0030502
991.719	0.0213714	0.0030704
993.649	0.0206737	0.0030981
995.578	0.0197333	0.0031762
997.508	0.0196617	0.0031171
999.437	0.0190177	0.0031213
1001.36	0.0189434	0.0031341
1003.29	0.0171931	0.0032415
1005.22	0.015029	0.0032337
1007.15	0.012543	0.0033407
1009.08	0.0110713	0.0032549

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1011.01	0.0100406	0.0033426
1012.94	0.0088919	0.0033679
1014.87	0.0085656	0.0033122
1016.8	0.0079003	0.0033104
1018.73	0.0073081	0.0033106
1020.66	0.0070157	0.0033997
1022.59	0.006484	0.0033268
1024.51	0.0057592	0.0034104
1026.44	0.0056351	0.0033609
1028.37	0.0058739	0.0034746
1030.3	0.0043916	0.0033957
1032.23	0.0055424	0.0035025
1034.16	0.0068429	0.0035093
1036.09	0.0055477	0.0034691
1038.02	0.0067875	0.0034949
1039.95	0.0068154	0.0035401
1041.88	0.0074121	0.0034873
1043.81	0.0082033	0.0035341
1045.74	0.009318	0.003463
1047.67	0.0101551	0.0034694
1049.6	0.0107973	0.0035491
1051.53	0.0113388	0.0035807
1053.45	0.0121403	0.0035002
1055.38	0.0128471	0.0035959
1057.31	0.0145929	0.003602
1059.24	0.0147412	0.0036496
1061.17	0.0153798	0.0035886
1063.1	0.0172382	0.0036019
1065.03	0.0196413	0.0036322
1066.96	0.0227899	0.0036927
1068.89	0.0229423	0.003733
1070.82	0.0253407	0.0037999
1072.75	0.0280012	0.0037268
1074.68	0.0304822	0.003722
1076.61	0.0324884	0.0037114
1078.54	0.0346433	0.0037133
1080.47	0.0355247	0.0036692
1082.39	0.0356754	0.00379
1084.32	0.0342024	0.0036893
1086.25	0.0320931	0.0037063
1088.18	0.0296079	0.0036697
1090.11	0.0289993	0.0036507
1092.04	0.0296149	0.0036488
1093.97	0.0297395	0.0036958
1095.9	0.0271726	0.0036602

2-Butanone 2.61 Mole % 41.4 Torr BS25AV BS25AD

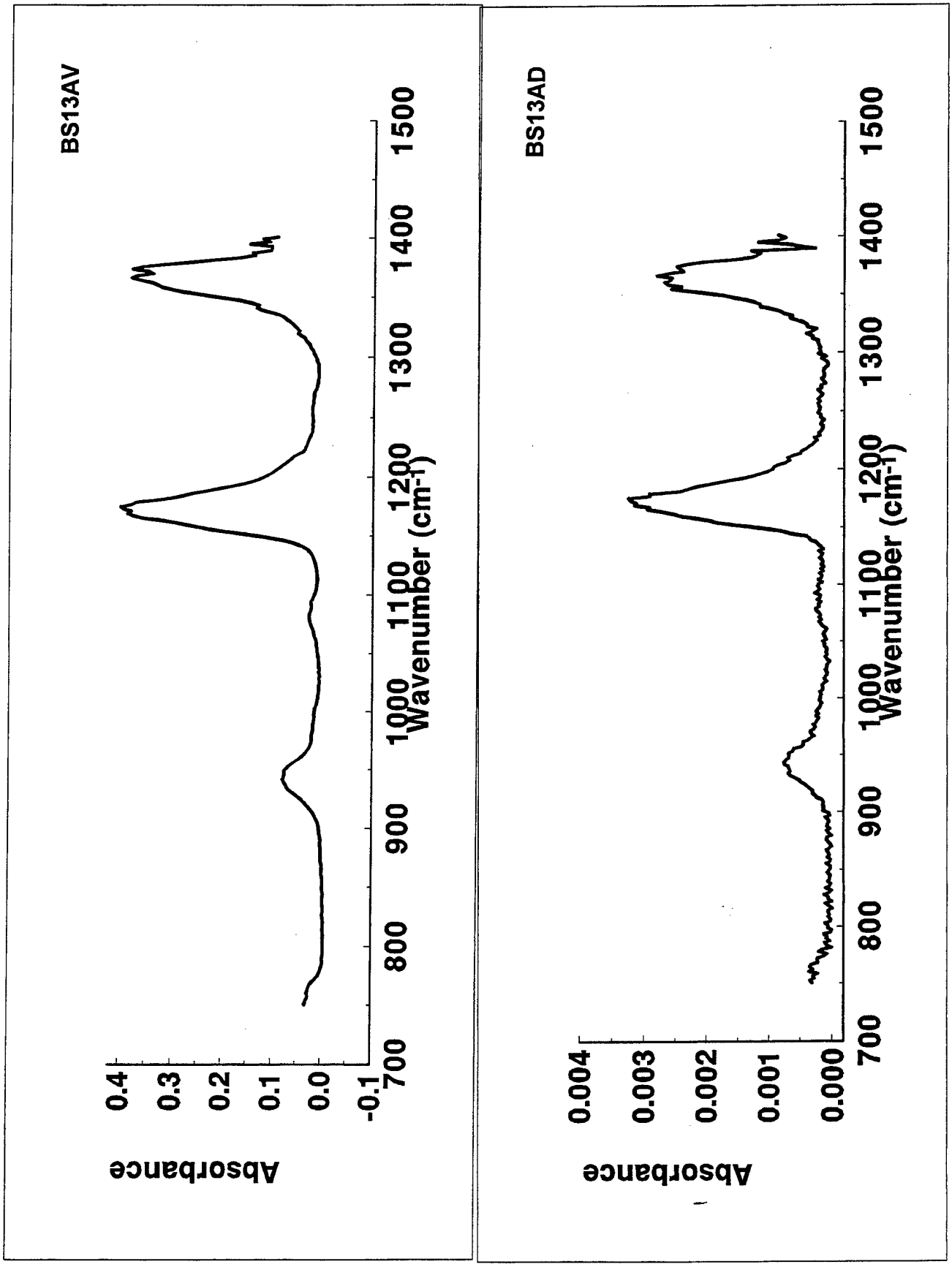
WN (cm-1)	AVE (A.U.)	AD (A.U.)
1097.83	0.0243583	0.0036616
1099.76	0.0217076	0.0037487
1101.69	0.019157	0.0037134
1103.62	0.0171776	0.0037609
1105.55	0.0158575	0.0037433
1107.48	0.0149307	0.003742
1109.41	0.0145087	0.0037898
1111.33	0.0137526	0.0038481
1113.26	0.0133563	0.0038207
1115.19	0.0134149	0.0038836
1117.12	0.0138393	0.0038571
1119.05	0.0147537	0.0039208
1120.98	0.0157775	0.0038844
1122.91	0.0167342	0.0039083
1124.84	0.018292	0.00397
1126.77	0.0197373	0.0039877
1128.7	0.0214323	0.0039114
1130.63	0.0237514	0.00404
1132.56	0.0264949	0.004092
1134.49	0.0297809	0.0042635
1136.42	0.035176	0.0044338
1138.34	0.0416435	0.0044412
1140.27	0.050867	0.0045192
1142.2	0.0640662	0.0048335
1144.13	0.0828805	0.0049945
1146.06	0.108859	0.0051632
1147.99	0.142199	0.0056318
1149.92	0.182328	0.0058327
1151.85	0.226032	0.0062427
1153.78	0.270276	0.0064219
1155.71	0.310437	0.0065249
1157.64	0.343519	0.0069287
1159.57	0.375368	0.0071475
1161.5	0.40771	0.0073479
1163.43	0.441357	0.0073325
1165.36	0.486295	0.0076588
1167.28	0.514124	0.0082194
1169.21	0.526182	0.0073479
1171.14	0.519572	0.0069721
1173.07	0.5372	0.0069455
1175	0.544784	0.006379
1176.93	0.516612	0.0065846
1178.86	0.505082	0.0062539
1180.79	0.441507	0.0057686
1182.72	0.404499	0.005821

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1184.65	0.379091	0.005596
1186.58	0.351361	0.0056491
1188.51	0.317796	0.0054359
1190.44	0.281998	0.0050521
1192.37	0.247971	0.0049639
1194.3	0.217371	0.0049943
1196.22	0.192983	0.0049921
1198.15	0.173595	0.0048706
1200.08	0.158618	0.0049038
1202.01	0.146832	0.0048465
1203.94	0.135839	0.0046689
1205.87	0.126439	0.0046793
1207.8	0.116991	0.0047879
1209.73	0.108698	0.0047486
1211.66	0.101097	0.0046655
1213.59	0.0921378	0.0047697
1215.52	0.0845696	0.0046081
1217.45	0.0773059	0.0044755
1219.38	0.0648026	0.0045412
1221.31	0.0518795	0.0044475
1223.24	0.0471098	0.0044992
1225.16	0.0446745	0.0045293
1227.09	0.0416107	0.0044095
1229.02	0.0393958	0.0044676
1230.95	0.0368599	0.0045431
1232.88	0.0343417	0.0045951
1234.81	0.031109	0.0044898
1236.74	0.0283617	0.0045053
1238.67	0.0265947	0.0046
1240.6	0.0262772	0.0046459
1242.53	0.0254916	0.004668
1244.46	0.0258764	0.0047072
1246.39	0.0256871	0.0047395
1248.32	0.0263048	0.0048696
1250.25	0.0264702	0.0048847
1252.17	0.026732	0.0048831
1254.1	0.0269537	0.0049366
1256.03	0.0268932	0.0049972
1257.96	0.0264602	0.0050185
1259.89	0.0269499	0.004864
1261.82	0.0240298	0.005171
1263.75	0.0240319	0.0049994
1265.68	0.02344	0.0049232
1267.61	0.0223856	0.0050077
1269.54	0.0219835	0.0048687

2-Butanone 2.61 Mole % 41.4 Torr B S25AV
B S25AD

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1271.47	0.0206877	0.0048058
1273.4	0.0169001	0.0050562
1275.33	0.0154542	0.004947
1277.26	0.0140407	0.0049559
1279.19	0.0130751	0.0048493
1281.11	0.0124459	0.004952
1283.04	0.010412	0.004967
1284.97	0.0101327	0.0048094
1286.9	0.0105209	0.0048406
1288.83	0.0106251	0.0050867
1290.76	0.0109329	0.0048908
1292.69	0.0113605	0.0049449
1294.62	0.0127087	0.0049965
1296.55	0.0152255	0.0048648
1298.48	0.0163383	0.0049986
1300.41	0.0192986	0.0050256
1302.34	0.0224601	0.0051603
1304.27	0.0254075	0.0052864
1306.2	0.0291476	0.0053358
1308.13	0.0339422	0.0050759
1310.05	0.0361809	0.0051924
1311.98	0.042023	0.0050599
1313.91	0.0473866	0.0056024
1315.84	0.0500956	0.0056999
1317.77	0.0576247	0.0059689
1319.7	0.0652219	0.0061559
1321.63	0.0654408	0.0058604
1323.56	0.0713912	0.0058221
1325.49	0.0774833	0.0057809
1327.42	0.0845586	0.0061673
1329.35	0.0927896	0.0061456
1331.28	0.101225	0.0064186
1333.21	0.110408	0.0067087
1335.14	0.122022	0.0070679
1337.06	0.143231	0.0076195
1338.99	0.164161	0.006325
1340.92	0.175542	0.0072445
1342.85	0.179145	0.0064686
1344.78	0.197915	0.0070708
1346.71	0.226148	0.0071325
1348.64	0.263279	0.0072849
1350.57	0.304437	0.00845
1352.5	0.346591	0.0082494
1354.43	0.388953	0.0082598
1356.36	0.419488	0.0087692

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1358.29	0.44194	0.0091502
1360.22	0.454247	0.0085217
1362.15	0.462144	0.0102359
1364.08	0.478914	0.0133766
1366	0.515746	0.0092942
1367.93	0.50617	0.0089338
1369.86	0.45973	0.0099424
1371.79	0.47193	0.009536
1373.72	0.505633	0.0068138
1375.65	0.478493	0.0079035
1377.58	0.426026	0.0060335
1379.51	0.359934	0.006767
1381.44	0.2889	0.0064383
1383.37	0.227285	0.0068611
1385.3	0.185615	0.006913
1387.23	0.186834	0.0030067
1389.16	0.140832	0.006723
1391.09	0.139957	0.0075535
1393.02	0.138551	0.0081567
1394.94	0.179354	0.0080957
1396.87	0.14091	0.0060022
1398.8	0.155151	0.0027664
1400.73	0.120008	0.0073966


BS13AV
Absorbance
0.4
0.3
0.2
0.1
0.0
-0.1
700
800
900
1000
1100
1200
1300
1400
1500
Wavenumber (cm-1)
BS13AD
Absorbance
0.004
0.003
0.002
0.001
0.000
700
800
900
1000
1100
1200
1300
1400
1500
Wavenumber (cm-1)

2-Butanone 1.31 Mole % 28.8 Torr BIS13AV
BIS13AD

WN (cm-1)	AVE (A.U.)	AD (A.U.)	WN (cm-1)	AVE (A.U.)	AD (A.U.)
750.547	0.031176	0.0003189	837.369	-0.0031555	0.000032
752.476	0.0306516	0.0003393	839.298	-0.0033629	0.0000673
754.405	0.0286738	0.0002845	841.228	-0.0039615	0.0000451
756.335	0.0258529	0.0002996	843.157	-0.0042005	0.0000393
758.264	0.0249337	0.0002349	845.086	-0.0040989	0.0000339
760.194	0.0265845	0.0003573	847.016	-0.0033685	0.0000743
762.123	0.0256035	0.0003034	848.945	-0.0027856	0.0000549
764.052	0.0245145	0.0003479	850.874	-0.0026403	0.0000307
765.982	0.0226934	0.0003305	852.804	-0.0030672	0.0000305
767.911	0.0199913	0.0002275	854.733	-0.0033207	0.0000892
769.84	0.0158915	0.0002329	856.663	-0.0032212	0.0000377
771.77	0.0113702	0.0002257	858.592	-0.0025445	0.0000354
773.699	0.0073265	0.0001242	860.521	-0.0014606	0.0000756
775.629	0.0041613	0.0000862	862.451	-0.0015267	0.0000469
777.558	0.0018439	0.0002012	864.38	-0.0017616	0.0000654
779.487	0.0000872	0.0001645	866.31	-0.0018489	0.0000871
781.417	-0.0015621	0.0000144	868.239	-0.001654	0.0000529
783.346	-0.0028359	0.0000898	870.168	-0.0006312	0.0000168
785.275	-0.0039441	0.000109	872.098	0.0000834	0.0000303
787.205	-0.0043142	0.0000429	874.027	0.0000825	0.0000686
789.134	-0.0038259	0.000096	875.956	-0.0000419	0.0000903
791.064	-0.0041359	0.0000839	877.886	-0.0001532	0.000077
792.993	-0.0047692	0.0001195	879.815	0.0002432	0.0000173
794.922	-0.004867	0.0000237	881.745	0.0003016	0.0000596
796.852	-0.0051823	0.0000137	883.674	0.0013349	0.0000802
798.781	-0.0047209	0.0000703	885.603	0.0014005	0.0000424
800.711	-0.0048995	0.00007	887.533	0.0015673	0.0000849
802.64	-0.0047608	0.0001034	889.462	0.0012336	0.0000778
804.569	-0.0049261	0.0000277	891.392	0.0018107	0.000059
806.499	-0.0053998	0.0000302	893.321	0.0023145	0.0000697
808.428	-0.0057158	0.0000564	895.25	0.0035312	0.0001081
810.357	-0.005786	0.0000462	897.18	0.0042963	0.0000454
812.287	-0.0049809	0.0000655	899.109	0.0045226	0.0000578
814.216	-0.0045845	0.0000573	901.038	0.0047901	0.0001387
816.146	-0.004771	7.23E-06	902.968	0.0057806	0.0001401
818.075	-0.0051598	0.0000556	904.897	0.0072327	0.0001377
820.004	-0.0054124	0.0000995	906.827	0.0094752	0.0001512
821.934	-0.0051779	9.78E-06	908.756	0.0119079	0.0001434
823.863	-0.004295	0.000062	910.685	0.0137306	0.0001621
825.792	-0.0038023	0.0000632	912.615	0.0157777	0.0002445
827.722	-0.0038194	0.0001197	914.544	0.0189485	0.0002757
829.651	-0.0047697	0.0000436	916.473	0.0226288	0.0003053
831.581	-0.0047531	0.0000199	918.403	0.0266474	0.0003057
833.51	-0.0044218	0.0000973	920.332	0.0310426	0.0003471
835.439	-0.0037726	0.0000467	922.262	0.0353494	0.0003873

2-Butanone 1.31 Mole % 28.8 Torr BS13AV BS13AD

WN (cm-1)	AVE (A.U.)	AD (A.U.)
924.191	0.0395475	0.0004293
926.12	0.044489	0.0004912
928.05	0.0503408	0.0005303
929.979	0.0566276	0.0005942
931.909	0.0628075	0.0006627
933.838	0.0681584	0.0006883
935.767	0.0711284	0.0006655
937.697	0.0723225	0.0006809
939.626	0.0756637	0.0006952
941.555	0.0777693	0.0007482
943.485	0.077103	0.0007585
945.414	0.0752358	0.0007239
947.344	0.0749733	0.0006876
949.273	0.0749194	0.0006782
951.202	0.0714897	0.0006818
953.132	0.0669845	0.0006252
955.061	0.0612979	0.0005979
956.991	0.0544396	0.0004834
958.92	0.0476725	0.0004523
960.849	0.0417862	0.0004562
962.779	0.036794	0.0003859
964.708	0.0327668	0.0003321
966.637	0.0292779	0.0002891
968.567	0.0263245	0.0003319
970.496	0.0237715	0.0003352
972.426	0.0219252	0.0002895
974.355	0.020705	0.000271
976.284	0.0203949	0.0002902
978.214	0.0199172	0.0002582
980.143	0.0199374	0.0002463
982.072	0.0191946	0.0002158
984.002	0.018329	0.0002534
985.931	0.0177292	0.0002222
987.861	0.0176263	0.0002497
989.79	0.0172145	0.000232
991.719	0.016268	0.0001978
993.649	0.0157647	0.0001911
995.578	0.0151075	0.0001705
997.508	0.0151546	0.0001984
999.437	0.014723	0.0001926
1001.36	0.0146852	0.0001931
1003.29	0.0133813	0.0001759
1005.22	0.0118689	0.0001902
1007.15	0.0101579	0.0001541
1009.08	0.0092081	0.0001496

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1011.01	0.0084488	0.0001575
1012.94	0.0078353	0.0001367
1014.87	0.0075613	0.0000976
1016.8	0.0071496	0.0001245
1018.73	0.0065111	0.0001115
1020.66	0.0063091	0.0000853
1022.59	0.0061419	0.0000852
1024.51	0.0054847	0.0001077
1026.44	0.0054434	0.0000904
1028.37	0.0055628	0.0000905
1030.3	0.0045101	0.0000714
1032.23	0.0054491	0.0000471
1034.16	0.0066365	0.000092
1036.09	0.0053798	0.0001119
1038.02	0.0061665	0.0000901
1039.95	0.0061562	0.0001022
1041.88	0.0065667	0.0000985
1043.81	0.0072402	0.0000956
1045.74	0.0078231	0.0001299
1047.67	0.0084378	0.0001249
1049.6	0.0088232	0.0001483
1051.53	0.0092123	0.0001015
1053.45	0.009801	0.0001146
1055.38	0.0104406	0.0001405
1057.31	0.0116114	0.0001341
1059.24	0.0119341	0.0001048
1061.17	0.0123909	0.0000957
1063.1	0.0134001	0.0001528
1065.03	0.0152164	0.0001765
1066.96	0.0172743	0.0002055
1068.89	0.0174521	0.0001762
1070.82	0.0192058	0.0002092
1072.75	0.020891	0.0001912
1074.68	0.0227377	0.0002108
1076.61	0.0242521	0.000249
1078.54	0.0255326	0.0002586
1080.47	0.026369	0.000213
1082.39	0.0264574	0.0002227
1084.32	0.0257486	0.0001865
1086.25	0.0240593	0.0002361
1088.18	0.0221129	0.0002006
1090.11	0.0215726	0.000198
1092.04	0.0221045	0.0002716
1093.97	0.0223369	0.0002284
1095.9	0.020443	0.0002047

2-Butanone 1.31 Mole % 28.8 Torr B S13AV
B S13AD

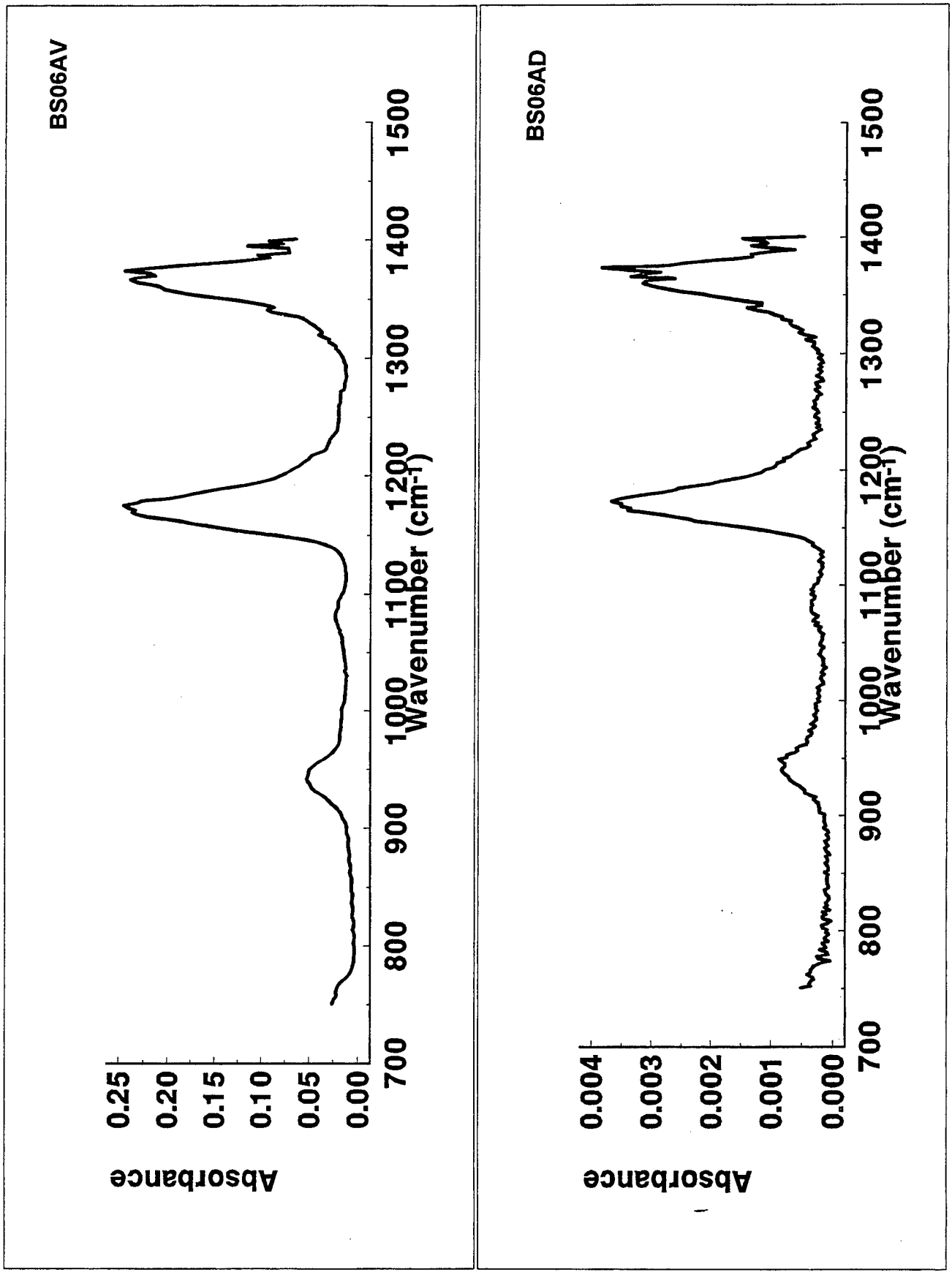
WN (cm-1)	AVE (A.U.)	AD (A.U.)
1097.83	0.0183953	0.0002238
1099.76	0.0162716	0.0002224
1101.69	0.0144319	0.0001642
1103.62	0.0131024	0.0002161
1105.55	0.0121792	0.0001775
1107.48	0.0114011	0.0001617
1109.41	0.0109834	0.0001957
1111.33	0.0102318	0.0001512
1113.26	0.0100241	0.0001786
1115.19	0.0100746	0.0001417
1117.12	0.0106601	0.0001738
1119.05	0.0110587	0.0001479
1120.98	0.0117585	0.0001573
1122.91	0.0124228	0.0001978
1124.84	0.0137273	0.0001701
1126.77	0.0147051	0.0001601
1128.7	0.0159524	0.0002094
1130.63	0.0175091	0.0001491
1132.56	0.0196434	0.0001807
1134.49	0.0220659	0.0002189
1136.42	0.0256709	0.0002532
1138.34	0.0304484	0.00034
1140.27	0.0373425	0.0003692
1142.2	0.046415	0.0004127
1144.13	0.0601297	0.0006406
1146.06	0.079005	0.0007854
1147.99	0.103044	0.0010051
1149.92	0.132631	0.0012808
1151.85	0.164503	0.0015724
1153.78	0.197173	0.0018524
1155.71	0.226566	0.0019546
1157.64	0.250685	0.0021929
1159.57	0.273993	0.0024138
1161.5	0.298095	0.0025199
1163.43	0.322594	0.0027276
1165.36	0.355948	0.0029423
1167.28	0.376264	0.0029159
1169.21	0.385463	0.0031374
1171.14	0.380323	0.0031192
1173.07	0.393178	0.0032114
1175	0.399106	0.0032352
1176.93	0.378513	0.0029033
1178.86	0.370642	0.0029094
1180.79	0.324625	0.0024307
1182.72	0.297295	0.0023055

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1184.65	0.278606	0.0021848
1186.58	0.258561	0.0020162
1188.51	0.233908	0.001821
1190.44	0.207832	0.0016283
1192.37	0.18312	0.0014046
1194.3	0.160539	0.0012654
1196.22	0.142877	0.0011372
1198.15	0.128736	0.0010208
1200.08	0.117721	0.0009435
1202.01	0.109141	0.0009253
1203.94	0.101412	0.0008488
1205.87	0.0944848	0.0007351
1207.8	0.087632	0.0006816
1209.73	0.0817029	0.0007008
1211.66	0.0760134	0.000627
1213.59	0.069421	0.0005015
1215.52	0.0640427	0.0004882
1217.45	0.058853	0.0004184
1219.38	0.0496749	0.0003723
1221.31	0.0403016	0.0003158
1223.24	0.0365522	0.0002913
1225.16	0.0348736	0.0002497
1227.09	0.0326029	0.0002815
1229.02	0.0311441	0.0002032
1230.95	0.0292058	0.0002183
1232.88	0.0273239	0.0001808
1234.81	0.0248439	0.0001657
1236.74	0.0229972	0.0001475
1238.67	0.0213353	0.0001848
1240.6	0.0211296	0.0001742
1242.53	0.0206933	0.0001384
1244.46	0.0211218	0.0001923
1246.39	0.0204822	0.0001888
1248.32	0.0208128	0.0002252
1250.25	0.0210671	0.0002116
1252.17	0.0214631	0.0002087
1254.1	0.0214866	0.0002123
1256.03	0.0213599	0.0002271
1257.96	0.0211967	0.0002017
1259.89	0.021387	0.0002246
1261.82	0.0195701	0.0001966
1263.75	0.0194456	0.0001615
1265.68	0.0189728	0.0001925
1267.61	0.0184068	0.0002272
1269.54	0.0184306	0.0001766

2-Butanone 1.31 Mole % 28.8 Torr BS13AV
BS13AD

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1271.47	0.0172222	0.0001815
1273.4	0.0142524	0.0001217
1275.33	0.012975	0.0001504
1277.26	0.0120674	0.0001806
1279.19	0.0114725	0.000139
1281.11	0.010928	0.0001406
1283.04	0.0092568	0.0001494
1284.97	0.0094348	0.0001475
1286.9	0.0094262	0.0001164
1288.83	0.0098636	0.0000823
1290.76	0.010116	0.000084
1292.69	0.0102413	0.0001161
1294.62	0.0108417	0.0001762
1296.55	0.0131026	0.0001167
1298.48	0.0136077	0.0002208
1300.41	0.0157108	0.000194
1302.34	0.0181167	0.0002052
1304.27	0.0202598	0.0001968
1306.2	0.0230708	0.000218
1308.13	0.0267244	0.0002366
1310.05	0.0279354	0.0002366
1311.98	0.0319851	0.0003148
1313.91	0.0369507	0.0003149
1315.84	0.0382927	0.0004084
1317.77	0.0450902	0.0003149
1319.7	0.0516964	0.0002574
1321.63	0.0497812	0.0003986
1323.56	0.0536455	0.0004039
1325.49	0.0581954	0.0004691
1327.42	0.0629828	0.0005729
1329.35	0.0693011	0.0006641
1331.28	0.0751534	0.0006375
1333.21	0.0817305	0.0007525
1335.14	0.090301	0.0008449
1337.06	0.109236	0.0009634
1338.99	0.125527	0.0011461
1340.92	0.134735	0.0011516
1342.85	0.131162	0.0012208
1344.78	0.145398	0.0013577
1346.71	0.165461	0.0015753
1348.64	0.192792	0.0017218
1350.57	0.223305	0.0019847
1352.5	0.254334	0.0023046
1354.43	0.285668	0.002564
1356.36	0.307298	0.0024054

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1358.29	0.324496	0.0026208
1360.22	0.332053	0.002668
1362.15	0.343735	0.0025729
1364.08	0.362123	0.002559
1366	0.380645	0.0027894
1367.93	0.37369	0.0026201
1369.86	0.341296	0.0023779
1371.79	0.349481	0.0024378
1373.72	0.378943	0.0024787
1375.65	0.359218	0.0023391
1377.58	0.315058	0.0020637
1379.51	0.268533	0.0015546
1381.44	0.215391	0.0012922
1383.37	0.169928	0.001197
1385.3	0.139704	0.0011509
1387.23	0.143728	0.0012901
1389.16	0.107583	0.0002812
1391.09	0.10615	0.0005218
1393.02	0.105648	0.000695
1394.94	0.148926	0.0011734
1396.87	0.109598	0.0008397
1398.8	0.1223	0.0007453
1400.73	0.0930083	0.0008512


BS06AV
Absorbance
0.25
0.20
0.15
0.10
0.05
0.00
700
800
900
1000
1100
1200
1300
1400
1500
Wavenumber (cm-1)
BS06AD
Absorbance
0.004
0.003
0.002
0.001
0.000
700
800
900
1000
1100
1200
1300
1400
1500
Wavenumber (cm-1)

2-Butanone 0.65 Mole % 17.6 Torr BS06AD
BS06AV

WN (cm-1)	AVE (A.U.)	AD (A.U.)
750.547	0.0257819	0.0005154
752.476	0.0250904	0.0003572
754.405	0.0242145	0.0003803
756.335	0.0223741	0.0003485
758.264	0.0215562	0.0003158
760.194	0.0224616	0.0003388
762.123	0.0216821	0.0004113
764.052	0.0208985	0.0003564
765.982	0.0199471	0.0003543
767.911	0.018298	0.000327
769.84	0.016094	0.0002923
771.77	0.0132187	0.0002039
773.699	0.0102961	0.0000538
775.629	0.0087766	0.0002268
777.558	0.0072212	0.0002494
779.487	0.0064076	0.000084
781.417	0.0052182	0.0000963
783.346	0.0048101	0.000196
785.275	0.0039749	0.0001118
787.205	0.0036005	0.0001386
789.134	0.0035776	0.0001631
791.064	0.003698	0.0000759
792.993	0.0033493	0.0001323
794.922	0.0033103	0.0001013
796.852	0.0032436	0.0000725
798.781	0.0034414	0.0001084
800.711	0.0036224	0.0000991
802.64	0.0039484	0.0001645
804.569	0.0035211	0.000176
806.499	0.0032613	0.0000797
808.428	0.0032279	0.0000362
810.357	0.0034494	0.0001594
812.287	0.0042398	0.0001696
814.216	0.0048667	0.0001108
816.146	0.0043519	0.0001623
818.075	0.0040337	0.0000546
820.004	0.0037356	0.0001268
821.934	0.0039459	0.000093
823.863	0.0048042	0.0001107
825.792	0.0054039	0.0000853
827.722	0.0052695	0.0000627
829.651	0.0052134	0.000069
831.581	0.0045555	0.0001074
833.51	0.0050713	0.0001222
835.439	0.0054273	0.0001337

WN (cm-1)	AVE (A.U.)	AD (A.U.)
837.369	0.0060004	0.0000694
839.298	0.0057073	0.0000763
841.228	0.0052374	0.0000922
843.157	0.004925	0.0000908
845.086	0.0051719	0.0000964
847.016	0.0060888	0.0000975
848.945	0.0064377	0.0000804
850.874	0.0064882	0.0001323
852.804	0.0062181	0.0000754
854.733	0.0058467	0.0000746
856.663	0.006023	0.0000943
858.592	0.0065626	0.0001231
860.521	0.0074537	0.0000861
862.451	0.0076654	0.0000939
864.38	0.007515	0.0001129
866.31	0.0071441	0.0000545
868.239	0.0073502	0.0000941
870.168	0.0076947	0.0001188
872.098	0.0088639	0.000126
874.027	0.0088194	0.000089
875.956	0.008418	0.0001095
877.886	0.0081408	0.0001255
879.815	0.0086142	0.0000749
881.745	0.0087086	0.0000777
883.674	0.0097014	0.0001089
885.603	0.0097754	0.0000754
887.533	0.0096676	0.0000969
889.462	0.0092766	0.0001474
891.392	0.0093477	0.0001176
893.321	0.0099179	0.0001301
895.25	0.0109919	0.0001424
897.18	0.0116276	0.0001385
899.109	0.0114689	0.0001434
901.038	0.0111346	0.0001362
902.968	0.0117425	0.0002113
904.897	0.0124734	0.0002207
906.827	0.0141476	0.0002182
908.756	0.0156331	0.0002338
910.685	0.0163759	0.0002374
912.615	0.0173346	0.0002719
914.544	0.0189994	0.000312
916.473	0.0210395	0.0002857
918.403	0.0235231	0.0003772
920.332	0.0260458	0.0004533
922.262	0.0284416	0.0004558

2-Butanone 0.65 Mole % 17.6 Torr BS06AD BS06AV

WN (cm-1)	AVE (A.U.)	AD (A.U.)
924.191	0.0306404	0.000501
926.12	0.0332708	0.0005395
928.05	0.0367624	0.0006179
929.979	0.0407476	0.0006604
931.909	0.0442323	0.0007001
933.838	0.0472302	0.000713
935.767	0.0485502	0.0007578
937.697	0.0489961	0.0008007
939.626	0.0511718	0.0008202
941.555	0.052349	0.0008139
943.485	0.0518578	0.0007762
945.414	0.0506718	0.0007767
947.344	0.0502737	0.0008155
949.273	0.049936	0.0008643
951.202	0.0477463	0.0007402
953.132	0.0453494	0.0007409
955.061	0.0419976	0.0006247
956.991	0.0381956	0.0005696
958.92	0.0340675	0.000583
960.849	0.0305791	0.0005395
962.779	0.0276261	0.0004295
964.708	0.0254479	0.0004087
966.637	0.0234371	0.0004264
968.567	0.0219468	0.0004122
970.496	0.0202641	0.0003625
972.426	0.018999	0.0003405
974.355	0.0187799	0.0003834
976.284	0.0183533	0.0003241
978.214	0.0186056	0.0002879
980.143	0.0186132	0.0003487
982.072	0.0181139	0.0003033
984.002	0.017554	0.0002703
985.931	0.0173149	0.000272
987.861	0.0172175	0.0003033
989.79	0.0173409	0.0002748
991.719	0.0169102	0.0002568
993.649	0.0166504	0.0002804
995.578	0.016253	0.0002738
997.508	0.0162687	0.0002855
999.437	0.0163349	0.0002282
1001.36	0.0164909	0.0002534
1003.29	0.015889	0.0002282
1005.22	0.0149762	0.0002353
1007.15	0.0141	0.0002466
1009.08	0.013473	0.0002253

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1011.01	0.0134036	0.0002524
1012.94	0.0132476	0.0002152
1014.87	0.012909	0.000164
1016.8	0.0128296	0.0001745
1018.73	0.0125429	0.0001974
1020.66	0.0123961	0.0001966
1022.59	0.0122593	0.000154
1024.51	0.0119755	0.0001902
1026.44	0.0119074	0.0001743
1028.37	0.0117505	0.0001216
1030.3	0.0113665	0.0001724
1032.23	0.0122318	0.0001631
1034.16	0.0133906	0.0001655
1036.09	0.0118786	0.0001677
1038.02	0.0125546	0.0001987
1039.95	0.0125774	0.0002286
1041.88	0.0128112	0.000204
1043.81	0.0132273	0.0001955
1045.74	0.0136742	0.0001588
1047.67	0.0140482	0.0002077
1049.6	0.0144673	0.0002106
1051.53	0.0146846	0.00019
1053.45	0.0149448	0.0001829
1055.38	0.0153679	0.0001785
1057.31	0.0160231	0.0001692
1059.24	0.0158114	0.0002145
1061.17	0.0160168	0.0002332
1063.1	0.0165059	0.0002055
1065.03	0.0173278	0.0002882
1066.96	0.0187362	0.0002474
1068.89	0.0185883	0.000325
1070.82	0.0197329	0.0002931
1072.75	0.0206357	0.0002547
1074.68	0.0213329	0.0003153
1076.61	0.0223029	0.000355
1078.54	0.022893	0.0003641
1080.47	0.0232783	0.0003626
1082.39	0.0233168	0.0003407
1084.32	0.0226066	0.0003527
1086.25	0.0215631	0.0003556
1088.18	0.0202303	0.0003084
1090.11	0.0199176	0.0003046
1092.04	0.0204149	0.0003591
1093.97	0.0200082	0.0003212
1095.9	0.0187783	0.0003567

2-Butanone 0.65 Mole % 17.6 Torr BS06AD
BS06AV

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1097.83	0.0174151	0.0003271
1099.76	0.0162375	0.000307
1101.69	0.0151641	0.0002602
1103.62	0.0143408	0.0002409
1105.55	0.0134889	0.0002483
1107.48	0.0131835	0.0002079
1109.41	0.0129382	0.0001968
1111.33	0.0122282	0.000222
1113.26	0.0120253	0.000202
1115.19	0.0120788	0.0001816
1117.12	0.012275	0.0001881
1119.05	0.0125019	0.0001812
1120.98	0.0129552	0.0002368
1122.91	0.0129312	0.0002121
1124.84	0.0135425	0.0001847
1126.77	0.0141549	0.0002089
1128.7	0.0149484	0.000175
1130.63	0.0158584	0.0002163
1132.56	0.0172305	0.0002741
1134.49	0.018666	0.0003342
1136.42	0.0209374	0.000335
1138.34	0.0240315	0.0004031
1140.27	0.02818	0.0004565
1142.2	0.0340487	0.0005661
1144.13	0.0423869	0.0007275
1146.06	0.0535901	0.0009643
1147.99	0.0684169	0.0011392
1149.92	0.0862076	0.0013995
1151.85	0.10567	0.0016784
1153.78	0.125062	0.0019712
1155.71	0.142351	0.0022653
1157.64	0.156978	0.0023945
1159.57	0.171204	0.0026166
1161.5	0.185145	0.0028257
1163.43	0.200454	0.0031228
1165.36	0.220311	0.0034002
1167.28	0.231379	0.0033622
1169.21	0.236806	0.0035175
1171.14	0.23397	0.0035114
1173.07	0.241617	0.0036654
1175	0.245045	0.0035589
1176.93	0.231738	0.0034038
1178.86	0.226797	0.0031526
1180.79	0.198663	0.0028301
1182.72	0.18316	0.0026278

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1184.65	0.17244	0.0025429
1186.58	0.160493	0.0022709
1188.51	0.145725	0.0020009
1190.44	0.13036	0.0018449
1192.37	0.115959	0.0016363
1194.3	0.103259	0.0014291
1196.22	0.0931086	0.0012918
1198.15	0.0852621	0.0011691
1200.08	0.0794905	0.0011186
1202.01	0.0746342	0.0009823
1203.94	0.0703367	0.0009401
1205.87	0.0663545	0.0009186
1207.8	0.062267	0.0008021
1209.73	0.0588277	0.0008045
1211.66	0.0557439	0.0006982
1213.59	0.0519645	0.0006669
1215.52	0.0496016	0.0005934
1217.45	0.0471003	0.0005526
1219.38	0.0409276	0.0004319
1221.31	0.0341676	0.0003926
1223.24	0.0326412	0.0004142
1225.16	0.0321472	0.0003855
1227.09	0.0307985	0.000302
1229.02	0.029933	0.000325
1230.95	0.0288418	0.0003335
1232.88	0.0273053	0.0002779
1234.81	0.0251688	0.0002108
1236.74	0.0234534	0.0002754
1238.67	0.022049	0.0002345
1240.6	0.0215199	0.0002815
1242.53	0.0209755	0.000247
1244.46	0.0210635	0.0002456
1246.39	0.0202586	0.0003094
1248.32	0.0202588	0.0002968
1250.25	0.0201237	0.0002547
1252.17	0.0204235	0.0002675
1254.1	0.0203981	0.0003311
1256.03	0.0204231	0.0003018
1257.96	0.0200609	0.0003021
1259.89	0.0204526	0.0003172
1261.82	0.0188825	0.000274
1263.75	0.018909	0.0002688
1265.68	0.0188621	0.0002134
1267.61	0.0184382	0.0002544
1269.54	0.0185845	0.0002997

2-Butanone 0.65 Mole % 17.6 Torr B S06AD
B S06AV

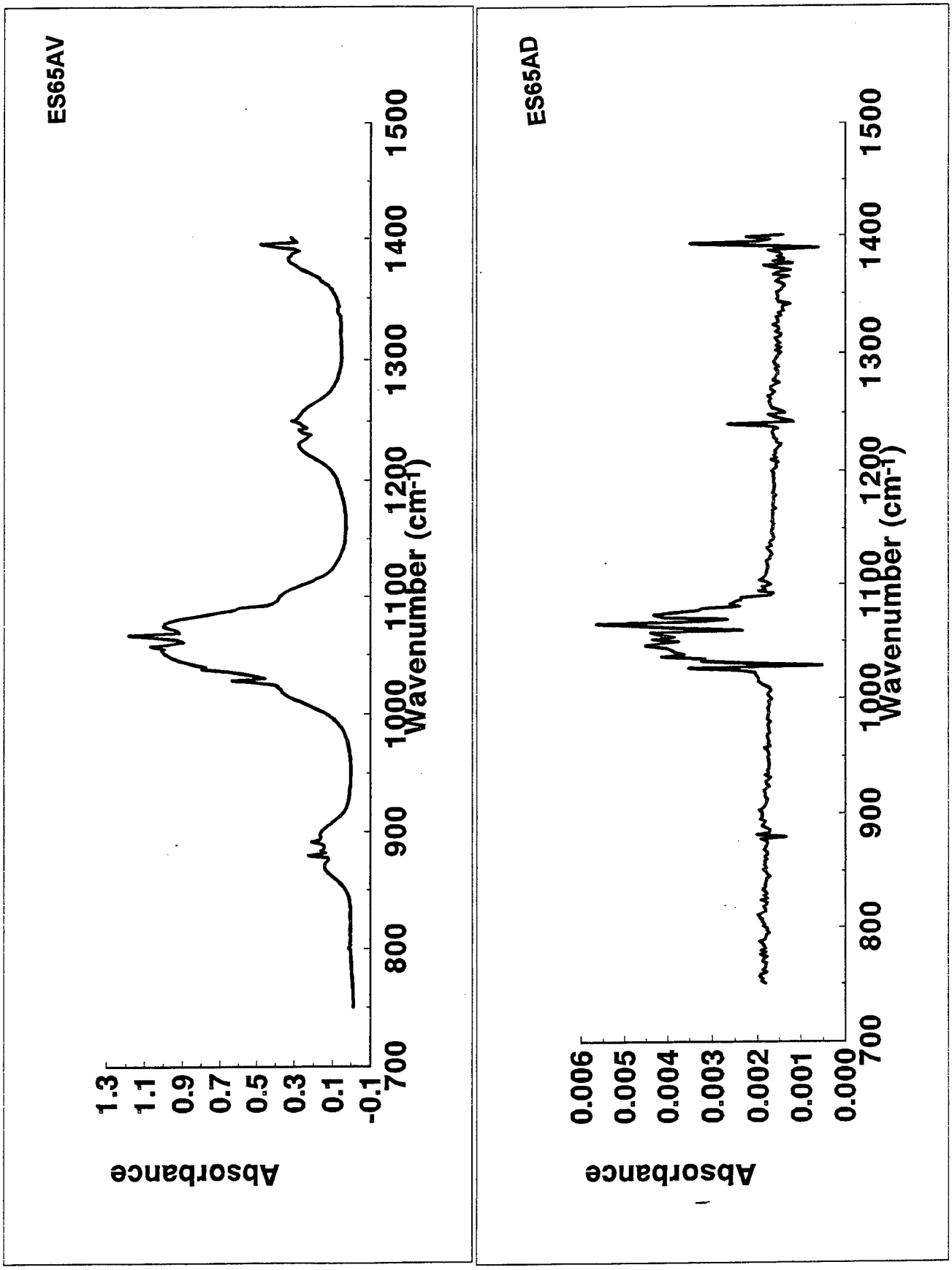
WN (cm-1)	AVE (A.U.)	AD (A.U.)
1271.47	0.0182052	0.0002412
1273.4	0.015075	0.0002773
1275.33	0.0145293	0.0002919
1277.26	0.0140838	0.0001832
1279.19	0.0140437	0.0002049
1281.11	0.0134869	0.0002801
1283.04	0.0126355	0.0002299
1284.97	0.0125184	0.0002033
1286.9	0.0126682	0.0002487
1288.83	0.0133812	0.0002032
1290.76	0.0131868	0.0002395
1292.69	0.0129819	0.0001808
1294.62	0.0134988	0.0002044
1296.55	0.0148308	0.0002525
1298.48	0.0150634	0.0002007
1300.41	0.0164212	0.000269
1302.34	0.0175867	0.0002577
1304.27	0.0193032	0.0002916
1306.2	0.0209857	0.0003488
1308.13	0.0236604	0.000322
1310.05	0.0235796	0.0003305
1311.98	0.0270543	0.0004551
1313.91	0.0303869	0.0003129
1315.84	0.0303725	0.0004587
1317.77	0.0353404	0.0005659
1319.7	0.0405859	0.0005076
1321.63	0.0374296	0.0005808
1323.56	0.0396374	0.0006742
1325.49	0.0424068	0.0007133
1327.42	0.0456006	0.0006953
1329.35	0.0492228	0.0008433
1331.28	0.0527618	0.0008388
1333.21	0.056546	0.0009664
1335.14	0.0625063	0.0010666
1337.06	0.0768111	0.0012681
1338.99	0.089652	0.0014101
1340.92	0.0941854	0.0011763
1342.85	0.0874957	0.0011713
1344.78	0.0959499	0.0014788
1346.71	0.108954	0.0017244
1348.64	0.125584	0.0019703
1350.57	0.144135	0.0021333
1352.5	0.162613	0.0024885
1354.43	0.181673	0.0027048
1356.36	0.19313	0.0028874

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1358.29	0.203766	0.0030322
1360.22	0.208194	0.0031567
1362.15	0.217843	0.0031161
1364.08	0.231466	0.0026305
1366	0.238665	0.0033578
1367.93	0.233036	0.0032187
1369.86	0.213866	0.0028702
1371.79	0.219471	0.0034026
1373.72	0.244433	0.0038371
1375.65	0.226211	0.0027309
1377.58	0.19612	0.0024979
1379.51	0.166936	0.0020847
1381.44	0.134541	0.0015955
1383.37	0.108298	0.0013322
1385.3	0.0914781	0.0013469
1387.23	0.104483	0.0011353
1389.16	0.0714717	0.0006467
1391.09	0.0719372	0.0010457
1393.02	0.0724815	0.0013347
1394.94	0.115184	0.0010798
1396.87	0.0778676	0.0011242
1398.8	0.0922199	0.0014817
1400.73	0.0644816	0.0004866

Blank

APPENDIX D

ETHANOL ABSORBANCE SPECTRA


ES65AV
Absorbance
1.3
1.1
0.9
0.7
0.5
0.3
0.1
-0.1
700
800
900
1000
1100
1200
1300
1400
1500
Wavenumber (cm-1)
ES65AD
Absorbance
0.006
0.005
0.004
0.003
0.002
0.001
0.000
700
800
900
1000
1100
1200
1300
1400
1500
Wavenumber (cm-1)

Ethanol 64.96 Mole % 35.5 Torr ES65AV
ES65AD

WN (cm-1)	AVE (A.U.)	AD (A.U.)
750.547	-0.0115508	0.0018273
752.476	-0.01179	0.0019015
754.405	-0.0122149	0.0018808
756.335	-0.0113094	0.0019433
758.264	-0.0105467	0.0019262
760.194	-0.0099575	0.0017899
762.123	-0.0095777	0.0018847
764.052	-0.0105516	0.00183
765.982	-0.0093748	0.0018181
767.911	-0.0085678	0.0017998
769.84	-0.0075198	0.0018831
771.77	-0.0061755	0.0018661
773.699	-0.0057086	0.0017926
775.629	-0.0051759	0.0019273
777.558	-0.0041656	0.0018142
779.487	-0.0025543	0.0019074
781.417	-0.0011396	0.0018272
783.346	-0.0009577	0.0018538
785.275	0.0002764	0.0018887
787.205	0.0003254	0.0019479
789.134	0.0008504	0.0018352
791.064	0.0012478	0.0018216
792.993	0.0020485	0.0017972
794.922	0.0027855	0.0017449
796.852	0.0024223	0.0017839
798.781	0.0036725	0.0017777
800.711	0.0126192	0.0018717
802.64	0.0041711	0.0018461
804.569	0.0065862	0.001892
806.499	0.0039056	0.0018964
808.428	0.0034644	0.0019444
810.357	0.0033118	0.0019875
812.287	0.0058518	0.0019097
814.216	0.0050351	0.0018207
816.146	0.0048308	0.0018307
818.075	0.0044651	0.0018639
820.004	0.0039638	0.0018018
821.934	0.0033496	0.0017908
823.863	0.0035096	0.0019013
825.792	0.0044101	0.0017841
827.722	0.004309	0.0018514
829.651	0.0042795	0.0017929
831.581	0.0039844	0.0018442
833.51	0.0034054	0.0018755
835.439	0.0041507	0.0018287

WN (cm-1)	AVE (A.U.)	AD (A.U.)
837.369	0.0060238	0.0018248
839.298	0.0075587	0.0018226
841.228	0.0097659	0.001801
843.157	0.0110743	0.0017923
845.086	0.0141261	0.0017232
847.016	0.0183339	0.0017859
848.945	0.0252059	0.0017968
850.874	0.0324748	0.0018663
852.804	0.0408928	0.0018095
854.733	0.0502455	0.0018407
856.663	0.0614126	0.0018367
858.592	0.0751024	0.0018419
860.521	0.0907708	0.0017964
862.451	0.105319	0.0018367
864.38	0.119582	0.0017771
866.31	0.130842	0.0017896
868.239	0.138324	0.0018492
870.168	0.141709	0.001826
872.098	0.139387	0.001802
874.027	0.132329	0.0017766
875.956	0.122616	0.0017933
877.886	0.125444	0.0019177
879.815	0.22303	0.0013522
881.745	0.137306	0.0020048
883.674	0.160708	0.0017311
885.603	0.144812	0.0017148
887.533	0.143379	0.001793
889.462	0.152056	0.0018957
891.392	0.208006	0.001857
893.321	0.166904	0.0018316
895.25	0.16196	0.0019279
897.18	0.166107	0.0019022
899.109	0.162308	0.0019041
901.038	0.153531	0.001902
902.968	0.140815	0.0019546
904.897	0.126153	0.0018834
906.827	0.109942	0.0018339
908.756	0.0943122	0.0018119
910.685	0.0780981	0.0017978
912.615	0.063678	0.0017822
914.544	0.0509481	0.0018246
916.473	0.0403992	0.0018319
918.403	0.0328401	0.0018363
920.332	0.0270808	0.0018556
922.262	0.0229368	0.0017994

Ethanol 64.96 Mole % 35.5 Torr ES65AV
ES65AD

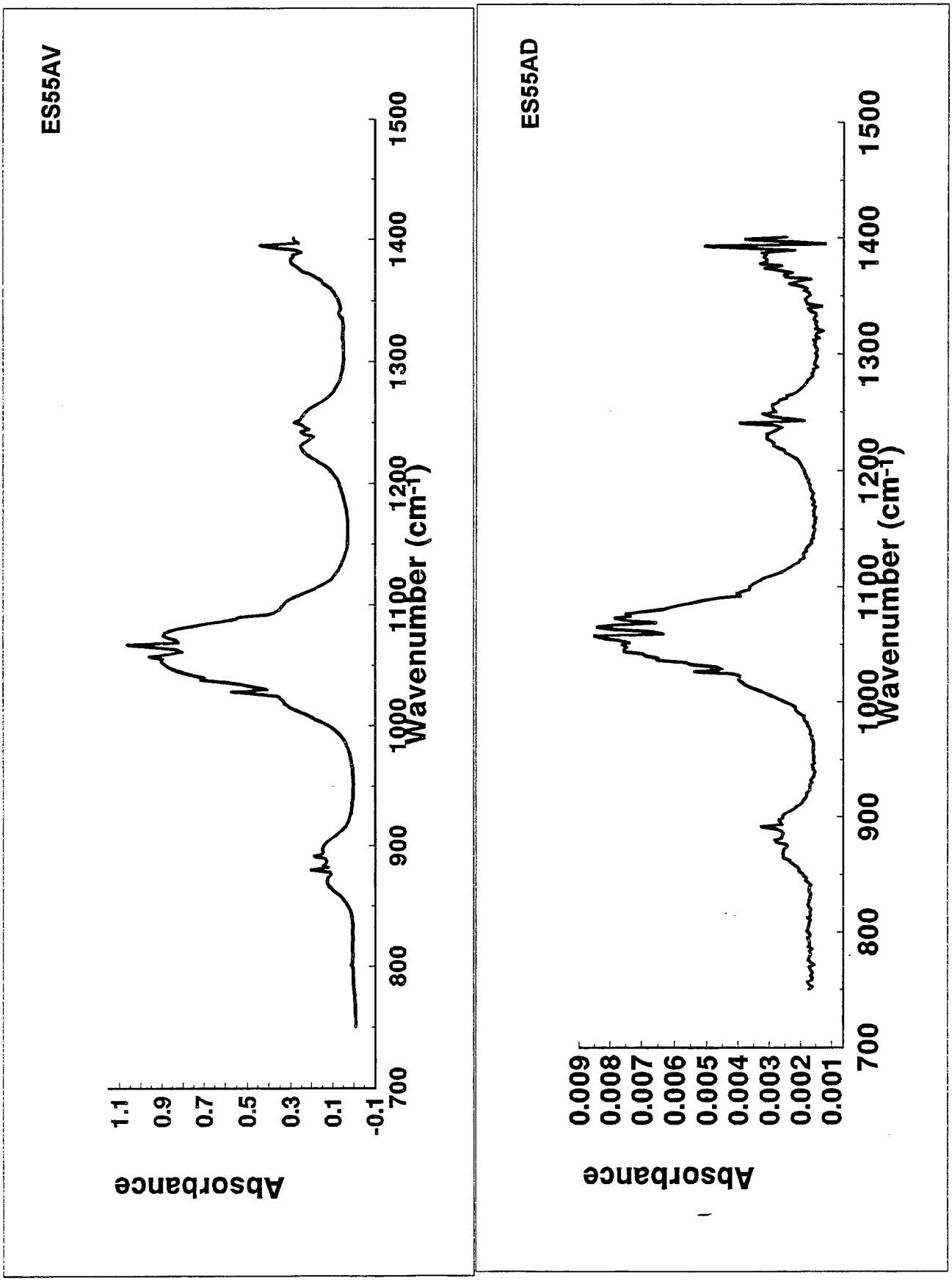
WN (cm-1)	AVE (A.U.)	AD (A.U.)	WN (cm-1)	AVE (A.U.)	AD (A.U.)
924.191	0.018349	0.0017434	1011.01	0.275363	0.0018421
926.12	0.0146861	0.0017905	1012.94	0.305104	0.0019204
928.05	0.0122431	0.0018092	1014.87	0.331528	0.0019802
929.979	0.0107129	0.0017497	1016.8	0.350094	0.0019788
931.909	0.0094446	0.0017088	1018.73	0.364658	0.0020047
933.838	0.0085564	0.001822	1020.66	0.370084	0.0020478
935.767	0.0071153	0.0017483	1022.59	0.38425	0.0020606
937.697	0.0055131	0.0017737	1024.51	0.396524	0.0024383
939.626	0.0038918	0.0017474	1026.44	0.491237	0.0035001
941.555	0.0034365	0.001743	1028.37	0.631766	0.0005232
943.485	0.0033372	0.0017463	1030.3	0.456502	0.0022549
945.414	0.0033444	0.0017474	1032.23	0.51676	0.0032317
947.344	0.0027314	0.0017505	1034.16	0.581014	0.003163
949.273	0.0019968	0.0017655	1036.09	0.657686	0.0041336
951.202	0.0006725	0.0017367	1038.02	0.797893	0.0036247
953.132	0.0012513	0.0017483	1039.95	0.778494	0.0038381
955.061	0.0016869	0.0017773	1041.88	0.839606	0.0039062
956.991	0.0027758	0.0018422	1043.81	0.885847	0.0040023
958.92	0.0035194	0.0017149	1045.74	0.926047	0.0045051
960.849	0.0047294	0.0017571	1047.67	0.958389	0.0042151
962.779	0.0042646	0.0017419	1049.6	0.977692	0.0037606
964.708	0.0055619	0.0017668	1051.53	0.993605	0.0043396
966.637	0.0072666	0.0017793	1053.45	1.00805	0.0038469
968.567	0.0093278	0.001776	1055.38	0.999213	0.0042031
970.496	0.0118325	0.0017232	1057.31	1.06819	0.0043817
972.426	0.0143037	0.0017478	1059.24	0.97281	0.0023498
974.355	0.0159742	0.0017471	1061.17	0.898468	0.0037237
976.284	0.0194295	0.0017685	1063.1	0.927603	0.0045416
978.214	0.0228208	0.0017591	1065.03	1.03226	0.0056334
980.143	0.0273867	0.001707	1066.96	1.18382	0.0033051
982.072	0.0319537	0.00178	1068.89	0.918658	0.0026805
984.002	0.0369702	0.0017637	1070.82	0.928752	0.0040837
985.931	0.0416699	0.0017593	1072.75	0.970116	0.0043126
987.861	0.0485257	0.0017462	1074.68	0.998925	0.0039207
989.79	0.0573103	0.0017605	1076.61	0.993927	0.0033286
991.719	0.0677296	0.0017685	1078.54	0.969428	0.0032145
993.649	0.078893	0.0017391	1080.47	0.916645	0.002421
995.578	0.0918937	0.0017322	1082.39	0.846817	0.0026045
997.508	0.105699	0.001745	1084.32	0.7742	0.0025198
999.437	0.124389	0.0016738	1086.25	0.701081	0.0023798
1001.36	0.143904	0.0017279	1088.18	0.623377	0.0023668
1003.29	0.169031	0.0017654	1090.11	0.597731	0.0016882
1005.22	0.198145	0.0017349	1092.04	0.447662	0.0016451
1007.15	0.219183	0.001696	1093.97	0.417115	0.0019661
1009.08	0.245028	0.0017283	1095.9	0.393809	0.0018204

Ethanol 64.96 Mole % 35.5 Torr ES65AV
ES65AD

WN (cm-1)	AVE (A.U.)	AD (A.U.)	WN (cm-1)	AVE (A.U.)	AD (A.U.)
1097.83	0.386354	0.0018889	1184.65	0.047132	0.0016197
1099.76	0.377581	0.0017066	1186.58	0.050148	0.0016076
1101.69	0.366033	0.0017705	1188.51	0.052832	0.0016046
1103.62	0.350222	0.0019453	1190.44	0.055375	0.0016341
1105.55	0.327804	0.0018862	1192.37	0.059572	0.0016294
1107.48	0.298497	0.0018305	1194.3	0.064255	0.0016263
1109.41	0.269044	0.0018092	1196.22	0.068571	0.0016411
1111.33	0.237435	0.0018019	1198.15	0.07334	0.0016179
1113.26	0.20607	0.0017848	1200.08	0.075858	0.0016671
1115.19	0.185764	0.0017569	1202.01	0.081033	0.0016035
1117.12	0.156174	0.001782	1203.94	0.087292	0.0015598
1119.05	0.13697	0.0017828	1205.87	0.096142	0.0015721
1120.98	0.119199	0.0017923	1207.8	0.106048	0.0015341
1122.91	0.106761	0.0017262	1209.73	0.115481	0.0016727
1124.84	0.0969693	0.0017219	1211.66	0.127771	0.0015634
1126.77	0.0885087	0.0016714	1213.59	0.142931	0.0016195
1128.7	0.0809886	0.0016999	1215.52	0.160036	0.0015893
1130.63	0.0735048	0.0017414	1217.45	0.181962	0.0015915
1132.56	0.0664789	0.0017792	1219.38	0.2018	0.0015517
1134.49	0.0614632	0.0016794	1221.31	0.222367	0.0015132
1136.42	0.0557315	0.0017169	1223.24	0.240526	0.0014618
1138.34	0.0506447	0.0017049	1225.16	0.255623	0.0015612
1140.27	0.0459182	0.0016316	1227.09	0.268579	0.0015564
1142.2	0.0425219	0.0016295	1229.02	0.276283	0.0016249
1144.13	0.038149	0.0016389	1230.95	0.278847	0.0016264
1146.06	0.0353894	0.0016725	1232.88	0.266535	0.0016648
1147.99	0.0330288	0.0016786	1234.81	0.247418	0.001648
1149.92	0.0321215	0.0016419	1236.74	0.230484	0.0015435
1151.85	0.0325939	0.0016489	1238.67	0.214867	0.0016943
1153.78	0.0318459	0.0016376	1240.6	0.262637	0.0026449
1155.71	0.0302258	0.0016591	1242.53	0.276725	0.0011891
1157.64	0.0295111	0.0016426	1244.46	0.238077	0.0014171
1159.57	0.0295202	0.0016525	1246.39	0.260303	0.0015986
1161.5	0.0296821	0.0016439	1248.32	0.275054	0.0017479
1163.43	0.02969	0.001641	1250.25	0.312526	0.0013785
1165.36	0.0305627	0.0016524	1252.17	0.283889	0.0014868
1167.28	0.0305968	0.0015849	1254.1	0.278059	0.0016664
1169.21	0.0306137	0.0016411	1256.03	0.266585	0.0016946
1171.14	0.0311145	0.0016401	1257.96	0.257088	0.0017245
1173.07	0.0332647	0.0016294	1259.89	0.246747	0.0017293
1175	0.0350219	0.0016229	1261.82	0.22677	0.0017041
1176.93	0.0358324	0.0016324	1263.75	0.208507	0.0017501
1178.86	0.0377946	0.0015847	1265.68	0.18835	0.0016534
1180.79	0.0407511	0.0016514	1267.61	0.167019	0.0016111
1182.72	0.0435234	0.0016233	1269.54	0.14816	0.0016956

Ethanol 64.96 Mole % 35.5 Torr ES65AV
ES65AD

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1271.47	0.132619	0.0016947
1273.4	0.119581	0.0016049
1275.33	0.107424	0.001505
1277.26	0.100575	0.0016315
1279.19	0.0919005	0.0015946
1281.11	0.085338	0.0015681
1283.04	0.077874	0.0015329
1284.97	0.0722826	0.0015357
1286.9	0.068523	0.0015839
1288.83	0.0660598	0.0015183
1290.76	0.0628043	0.0016032
1292.69	0.0585241	0.0016216
1294.62	0.0566441	0.0015863
1296.55	0.0559044	0.00156
1298.48	0.0533981	0.0015159
1300.41	0.051879	0.0014689
1302.34	0.0510709	0.0015742
1304.27	0.0526218	0.0014689
1306.2	0.0524216	0.0015669
1308.13	0.0523144	0.0014885
1310.05	0.0516744	0.0015459
1311.98	0.0527773	0.0015874
1313.91	0.0535262	0.0014753
1315.84	0.0526482	0.0014682
1317.77	0.0542577	0.0015749
1319.7	0.0574336	0.0015128
1321.63	0.0560837	0.0015326
1323.56	0.056184	0.0016347
1325.49	0.0562444	0.0015252
1327.42	0.0543605	0.0015288
1329.35	0.0544378	0.0015625
1331.28	0.0556861	0.0014711
1333.21	0.0574307	0.0015205
1335.14	0.0577142	0.0014063
1337.06	0.0673839	0.0014244
1338.99	0.0728293	0.0014215
1340.92	0.0725066	0.0012536
1342.85	0.0662225	0.0015114
1344.78	0.0685078	0.0015418
1346.71	0.0718413	0.0015249
1348.64	0.0763931	0.0015464
1350.57	0.0799247	0.0015586
1352.5	0.0869898	0.0014647
1354.43	0.0958419	0.0014294
1356.36	0.101919	0.0013826
1358.29	0.113193	0.0014194
1360.22	0.12239	0.0015639
1362.15	0.142254	0.0015076
1364.08	0.160843	0.0012906
1366	0.168906	0.0016184
1367.93	0.187682	0.0015589
1369.86	0.210067	0.0012445
1371.79	0.233291	0.0015681
1373.72	0.267103	0.0018476
1375.65	0.284948	0.0011973
1377.58	0.301481	0.001633
1379.51	0.321129	0.0013904
1381.44	0.332036	0.0015396
1383.37	0.332662	0.0014406
1385.3	0.319494	0.0015011
1387.23	0.314698	0.0017539
1389.16	0.279214	0.0006115
1391.09	0.305392	0.0018236
1393.02	0.403659	0.0034728
1394.94	0.478026	0.0020223
1396.87	0.290488	0.0017174
1398.8	0.308711	0.0022427
1400.73	0.317546	0.0014048


ES55AV
Absorbance
1.1
0.9
0.7
0.5
0.3
0.1
-0.1
700
800
900
1000
1100
1200
1300
1400
1500
Wavenumber (cm-1)
ES55AD
Absorbance
0.009
0.008
0.007
0.006
0.005
0.004
0.003
0.002
0.001
700
800
900
1000
1100
1200
1300
1400
1500
Wavenumber (cm-1)

Ethanol 55.01 Mole % 32.5 Torr ES55AV
ES55AD

WN (cm-1)	AVE (A.U.)	AD (A.U.)
750.547	-0.0095626	0.001725
752.476	-0.0100003	0.0016214
754.405	-0.0102441	0.001709
756.335	-0.0096085	0.001767
758.264	-0.0087816	0.0016462
760.194	-0.0081607	0.0016152
762.123	-0.0078046	0.0016695
764.052	-0.008436	0.0016259
765.982	-0.0076815	0.0016394
767.911	-0.00727	0.0016924
769.84	-0.0063239	0.00171
771.77	-0.0048977	0.0015607
773.699	-0.0043822	0.0016735
775.629	-0.0043828	0.0017468
777.558	-0.0030091	0.0017273
779.487	-0.0019849	0.0016948
781.417	-0.0004022	0.0016741
783.346	-0.0001532	0.001711
785.275	0.0008716	0.0016238
787.205	0.0007561	0.0017395
789.134	0.0012197	0.0017064
791.064	0.001671	0.0017054
792.993	0.0024144	0.0017321
794.922	0.0032335	0.0017841
796.852	0.0027648	0.0016954
798.781	0.0038963	0.0017102
800.711	0.011956	0.0017921
802.64	0.0047038	0.0017497
804.569	0.006683	0.0017523
806.499	0.0043459	0.0017273
808.428	0.0039032	0.0017232
810.357	0.0035704	0.001676
812.287	0.0058362	0.0017772
814.216	0.0053747	0.0016747
816.146	0.0050012	0.0016914
818.075	0.0048571	0.0016914
820.004	0.0044149	0.0016604
821.934	0.0035826	0.0017264
823.863	0.0039512	0.001749
825.792	0.0046909	0.0017274
827.722	0.0047155	0.0017221
829.651	0.0047376	0.0016793
831.581	0.0044116	0.0016871
833.51	0.0038601	0.0016625
835.439	0.0043818	0.0017192

WN (cm-1)	AVE (A.U.)	AD (A.U.)
837.369	0.0062302	0.0017156
839.298	0.0075637	0.0017137
841.228	0.0095901	0.0016686
843.157	0.0108798	0.0017553
845.086	0.0135878	0.0018396
847.016	0.017218	0.0018111
848.945	0.0234849	0.0018999
850.874	0.0300572	0.0019387
852.804	0.0374247	0.0020378
854.733	0.0456632	0.0020516
856.663	0.0556514	0.00211
858.592	0.0676727	0.0022095
860.521	0.081753	0.0023103
862.451	0.0949558	0.0023591
864.38	0.107734	0.0025408
866.31	0.117601	0.0025599
868.239	0.124362	0.0025708
870.168	0.127405	0.002551
872.098	0.125274	0.002543
874.027	0.119271	0.0024322
875.956	0.110066	0.0024391
877.886	0.112865	0.0027532
879.815	0.200424	0.0028147
881.745	0.123161	0.0026058
883.674	0.144315	0.0025991
885.603	0.129882	0.0025533
887.533	0.128562	0.0026108
889.462	0.13617	0.0027411
891.392	0.186263	0.0032399
893.321	0.149268	0.0026106
895.25	0.145135	0.0026426
897.18	0.148755	0.0026946
899.109	0.145544	0.0025741
901.038	0.137746	0.0025678
902.968	0.126211	0.0024827
904.897	0.113079	0.0023463
906.827	0.098667	0.0021966
908.756	0.0850073	0.0021412
910.685	0.0705163	0.0020173
912.615	0.057612	0.0019436
914.544	0.0460973	0.0019049
916.473	0.0366946	0.0018392
918.403	0.0300357	0.0018109
920.332	0.0249694	0.0017959
922.262	0.0212642	0.0017371

Ethanol 55.01 Mole % 32.5 Torr ES55AV ES55AD

WN (cm-1)	AVE (A.U.)	AD (A.U.)	WN (cm-1)	AVE (A.U.)	AD (A.U.)
924.191	0.0171236	0.001692	1011.01	0.247795	0.0034736
926.12	0.013879	0.0017053	1012.94	0.274505	0.0036386
928.05	0.0114961	0.0017006	1014.87	0.298035	0.0037798
929.979	0.0102963	0.0016378	1016.8	0.314707	0.0038549
931.909	0.0090798	0.0016635	1018.73	0.327523	0.0039832
933.838	0.0083505	0.001636	1020.66	0.332326	0.0039485
935.767	0.0071287	0.001573	1022.59	0.344572	0.0039513
937.697	0.005575	0.0015724	1024.51	0.354575	0.0041826
939.626	0.0040832	0.0015363	1026.44	0.439515	0.0053724
941.555	0.0036056	0.0015868	1028.37	0.56896	0.0045277
943.485	0.0035405	0.0015987	1030.3	0.409602	0.0047121
945.414	0.0036149	0.0016237	1032.23	0.463761	0.0054807
947.344	0.003132	0.0015515	1034.16	0.522026	0.005651
949.273	0.0023971	0.0015765	1036.09	0.58847	0.006535
951.202	0.0009804	0.0015781	1038.02	0.714489	0.0065128
953.132	0.0016423	0.0015647	1039.95	0.696965	0.0068929
955.061	0.0020295	0.0015855	1041.88	0.751904	0.0069813
956.991	0.0031369	0.0015896	1043.81	0.793176	0.0075511
958.92	0.003768	0.0015823	1045.74	0.829415	0.0075437
960.849	0.0048448	0.0015995	1047.67	0.85773	0.007468
962.779	0.004276	0.0015781	1049.6	0.874918	0.0076125
964.708	0.0055051	0.0015884	1051.53	0.889294	0.0073924
966.637	0.0071257	0.0015972	1053.45	0.901655	0.0076932
968.567	0.008936	0.0016411	1055.38	0.893736	0.0082267
970.496	0.0112653	0.0016281	1057.31	0.955617	0.0084955
972.426	0.0133992	0.0016931	1059.24	0.870576	0.0063566
974.355	0.0148449	0.0016739	1061.17	0.802878	0.0066856
976.284	0.0180128	0.0016937	1063.1	0.827492	0.0078768
978.214	0.0212354	0.0017258	1065.03	0.921078	0.0084103
980.143	0.0252604	0.0017811	1066.96	1.05977	0.0077978
982.072	0.0295333	0.0017924	1068.89	0.82145	0.0065916
984.002	0.0341222	0.0018624	1070.82	0.829521	0.007404
985.931	0.038096	0.0018945	1072.75	0.865714	0.0078357
987.861	0.0442071	0.0018907	1074.68	0.890891	0.0073599
989.79	0.0522445	0.0020248	1076.61	0.8854	0.0074904
991.719	0.0616498	0.0021148	1078.54	0.862606	0.0069675
993.649	0.0716253	0.0021613	1080.47	0.815654	0.0063667
995.578	0.0833329	0.0021644	1082.39	0.7528	0.0060992
997.508	0.0956044	0.0022821	1084.32	0.688577	0.0058315
999.437	0.112357	0.002441	1086.25	0.623121	0.005457
1001.36	0.129934	0.0026162	1088.18	0.555226	0.0051502
1003.29	0.152628	0.0027645	1090.11	0.532152	0.0046745
1005.22	0.178696	0.0029061	1092.04	0.399261	0.0039261
1007.15	0.197729	0.003091	1093.97	0.371608	0.0040359
1009.08	0.220836	0.0032515	1095.9	0.350485	0.003855

Ethanol 55.01 Mole % 32.5 Torr ES55AV ES55AD

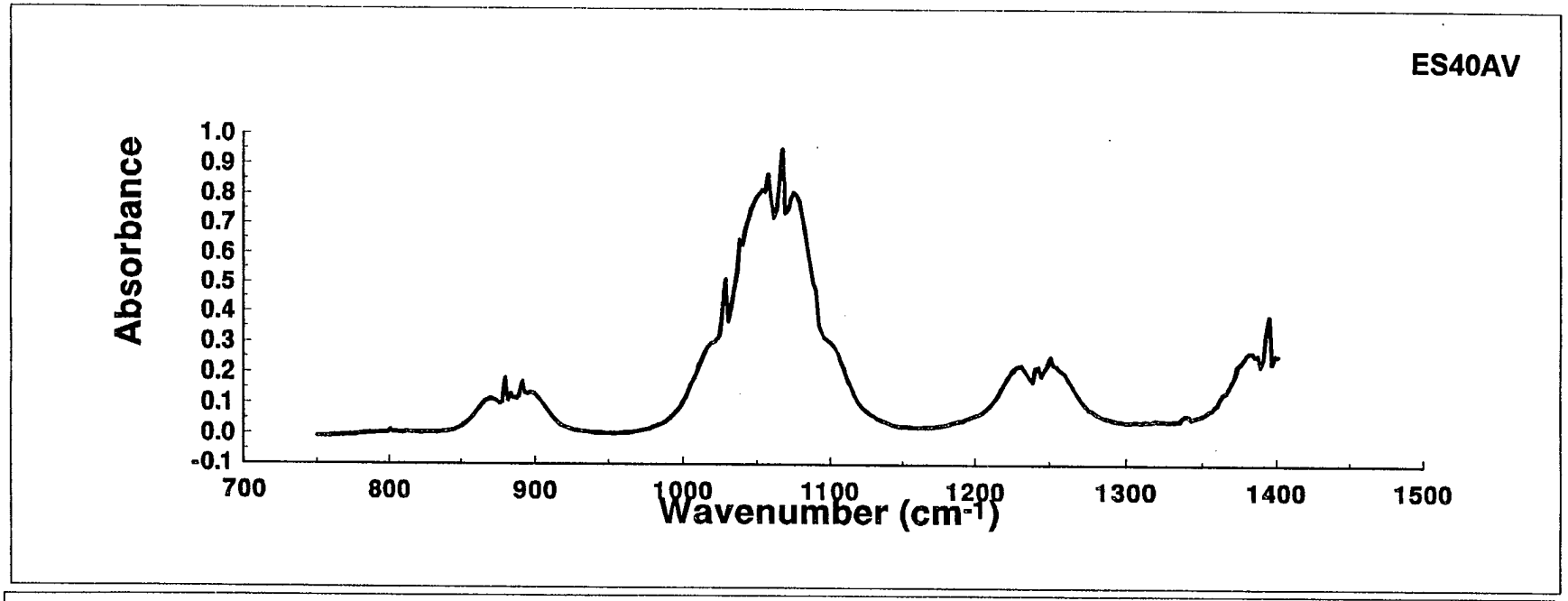
WN (cm-1)	AVE (A.U.)	AD (A.U.)
1097.83	0.343973	0.0036487
1099.76	0.335857	0.0036224
1101.69	0.325935	0.0035474
1103.62	0.311813	0.0034328
1105.55	0.291656	0.00329
1107.48	0.265751	0.0032021
1109.41	0.239488	0.0029545
1111.33	0.211304	0.0027343
1113.26	0.183416	0.0025689
1115.19	0.16527	0.0024401
1117.12	0.139164	0.0023029
1119.05	0.122123	0.0022029
1120.98	0.106015	0.0020734
1122.91	0.0951785	0.0020291
1124.84	0.0866485	0.0018988
1126.77	0.0790875	0.0019092
1128.7	0.0721816	0.0019049
1130.63	0.0657157	0.0018177
1132.56	0.0595773	0.0018237
1134.49	0.0550601	0.0017825
1136.42	0.0499948	0.0017053
1138.34	0.0456598	0.0016435
1140.27	0.0413125	0.0016521
1142.2	0.0383077	0.0015857
1144.13	0.034508	0.0016088
1146.06	0.0321862	0.0015889
1147.99	0.0301482	0.0015555
1149.92	0.0292322	0.0015456
1151.85	0.0296802	0.0015876
1153.78	0.0290565	0.0015678
1155.71	0.0277057	0.0015334
1157.64	0.0269765	0.0015528
1159.57	0.0272044	0.0015074
1161.5	0.0273221	0.0015809
1163.43	0.0273601	0.0015642
1165.36	0.0279781	0.0015915
1167.28	0.0280193	0.0015609
1169.21	0.0281769	0.0015271
1171.14	0.0284898	0.0016069
1173.07	0.030577	0.0015553
1175	0.0321026	0.0015921
1176.93	0.0329819	0.0016455
1178.86	0.0345648	0.0016143
1180.79	0.0373475	0.0015993
1182.72	0.0397524	0.0016423

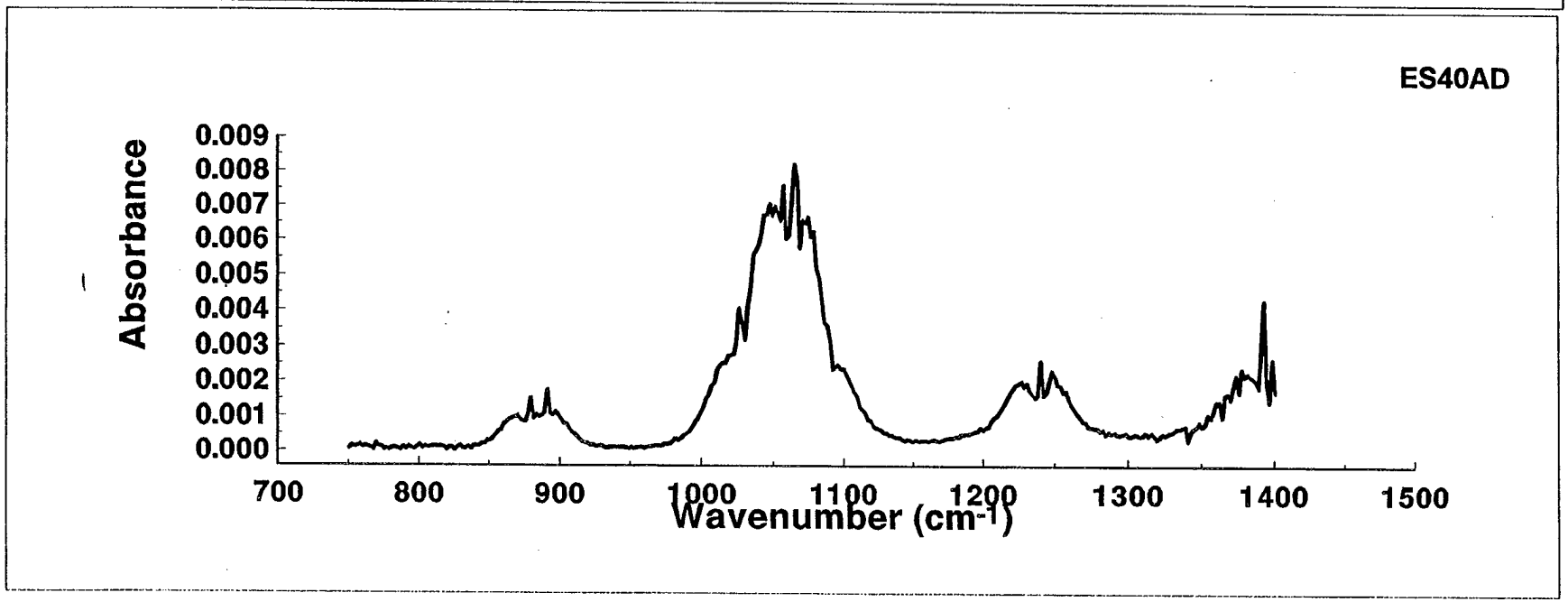
WN (cm-1)	AVE (A.U.)	AD (A.U.)
1184.65	0.0429471	0.0016943
1186.58	0.0457278	0.0017048
1188.51	0.0481897	0.0016999
1190.44	0.0503717	0.0017484
1192.37	0.0541701	0.0017425
1194.3	0.0584487	0.0018232
1196.22	0.0621626	0.0018285
1198.15	0.0666163	0.0018797
1200.08	0.0689163	0.0018895
1202.01	0.0734049	0.0019371
1203.94	0.079063	0.001976
1205.87	0.0868411	0.002003
1207.8	0.0959777	0.0020644
1209.73	0.10443	0.0021179
1211.66	0.115373	0.0022364
1213.59	0.128747	0.0023533
1215.52	0.144143	0.0024947
1217.45	0.163734	0.002535
1219.38	0.181387	0.0027198
1221.31	0.199727	0.0028677
1223.24	0.216202	0.0028639
1225.16	0.229824	0.0029443
1227.09	0.241107	0.0030764
1229.02	0.247843	0.0030779
1230.95	0.250305	0.00309
1232.88	0.239019	0.0029316
1234.81	0.222075	0.0027641
1236.74	0.206923	0.0026149
1238.67	0.192602	0.0027949
1240.6	0.235162	0.003947
1242.53	0.248225	0.0019032
1244.46	0.213801	0.0025725
1246.39	0.232769	0.0029708
1248.32	0.245977	0.0032122
1250.25	0.27982	0.0028091
1252.17	0.254176	0.0028812
1254.1	0.248844	0.0029148
1256.03	0.238587	0.002913
1257.96	0.230038	0.0027483
1259.89	0.221063	0.0026893
1261.82	0.202775	0.0024629
1263.75	0.186312	0.0024541
1265.68	0.168576	0.002209
1267.61	0.1493	0.0021209
1269.54	0.13266	0.0020347

Ethanol 55.01 Mole % 32.5 Torr ES55AV
ES55AD

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1271.47	0.118951	0.0019351
1273.4	0.106916	0.001879
1275.33	0.0959823	0.0018194
1277.26	0.090086	0.0017767
1279.19	0.0822229	0.0016934
1281.11	0.0766299	0.0016191
1283.04	0.0699179	0.0016397
1284.97	0.0648841	0.0015897
1286.9	0.0616225	0.001591
1288.83	0.0595368	0.001466
1290.76	0.0566885	0.0015565
1292.69	0.0528854	0.0015539
1294.62	0.0512803	0.0015181
1296.55	0.0507206	0.001495
1298.48	0.0482927	0.001481
1300.41	0.0468594	0.0015161
1302.34	0.0462692	0.0014858
1304.27	0.047558	0.0014766
1306.2	0.0475932	0.0015313
1308.13	0.0477524	0.0015547
1310.05	0.0470023	0.0015314
1311.98	0.0482469	0.0015842
1313.91	0.0489393	0.0014173
1315.84	0.0480286	0.001521
1317.77	0.049603	0.001479
1319.7	0.0528859	0.0012917
1321.63	0.0508865	0.0015197
1323.56	0.0511565	0.0014869
1325.49	0.0509448	0.001521
1327.42	0.049203	0.0014953
1329.35	0.0493424	0.001569
1331.28	0.0504341	0.0015604
1333.21	0.0519149	0.001504
1335.14	0.0522163	0.0015323
1337.06	0.0627491	0.0016975
1338.99	0.0689658	0.0017627
1340.92	0.0681733	0.0013336
1342.85	0.0603824	0.0017783
1344.78	0.0625702	0.0018295
1346.71	0.0654933	0.0018608
1348.64	0.0698186	0.0018036
1350.57	0.0726107	0.0016989
1352.5	0.0789734	0.0017421
1354.43	0.0874791	0.0018826
1356.36	0.0924284	0.0018073

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1358.29	0.10301	0.0019818
1360.22	0.1114	0.0023608
1362.15	0.129854	0.0021195
1364.08	0.147197	0.0016786
1366	0.152771	0.0024887
1367.93	0.169926	0.0025396
1369.86	0.189317	0.0022836
1371.79	0.210001	0.0027098
1373.72	0.243991	0.0031565
1375.65	0.25758	0.0026264
1377.58	0.270942	0.0032911
1379.51	0.288166	0.0030909
1381.44	0.297605	0.0030929
1383.37	0.298596	0.0031899
1385.3	0.287246	0.0031101
1387.23	0.286779	0.0032559
1389.16	0.249765	0.0022084
1391.09	0.273199	0.0035345
1393.02	0.362039	0.0050547
1394.94	0.436817	0.0012213
1396.87	0.26294	0.0023507
1398.8	0.281837	0.0037579
1400.73	0.283593	0.0024566


ES40AV
Absorbance
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
-0.1
700
800
900
1000
1100
1200
1300
1400
1500
Wavenumber (cm-1)


ES40AD
Absorbance
0.009
0.008
0.007
0.006
0.005
0.004
0.003
0.002
0.001
0.000
700
800
900
1000
1100
1200
1300
1400
1500
Wavenumber (cm-1)

Ethanol 40.11 Mole % 28.2 Torr ES40AV
ES40AD

WN (cm-1)	AVE (A.U.)	AD (A.U.)
750.547	-0.0082421	0.0000581
752.476	-0.0083791	0.0001381
754.405	-0.0088101	0.0001081
756.335	-0.008235	0.0001211
758.264	-0.0073835	0.0001482
760.194	-0.0069003	0.000095
762.123	-0.0064558	0.0001278
764.052	-0.0069367	0.0001003
765.982	-0.0063762	0.0000763
767.911	-0.0058795	0.0000221
769.84	-0.0046958	0.0001936
771.77	-0.0036695	0.0001262
773.699	-0.0036598	0.0000974
775.629	-0.0032764	0.000027
777.558	-0.0022126	0.0000411
779.487	-0.0008817	0.0000221
781.417	0.0003596	0.0000653
783.346	0.0004992	0.0000803
785.275	0.0016311	0.00005
787.205	0.0013874	0.0000233
789.134	0.0017888	0.0000945
791.064	0.0021936	0.000036
792.993	0.0029526	0.0001141
794.922	0.0037148	0.0000684
796.852	0.003347	0.0000504
798.781	0.0041373	0.000085
800.711	0.0114428	0.000166
802.64	0.0045504	0.0000719
804.569	0.0065762	0.0001177
806.499	0.0047015	0.0000918
808.428	0.0042682	0.0001012
810.357	0.0038963	0.0001194
812.287	0.00598	0.0001246
814.216	0.0054404	0.000109
816.146	0.0052748	0.0001187
818.075	0.005087	0.0000966
820.004	0.0044594	0.0000288
821.934	0.0039609	0.0000961
823.863	0.0040468	0.0000905
825.792	0.004883	8.82E-06
827.722	0.0048866	0.0000906
829.651	0.0048005	0.000132
831.581	0.0046124	0.000059
833.51	0.0040262	0.0000521
835.439	0.0047787	0.0001097

WN (cm-1)	AVE (A.U.)	AD (A.U.)
837.369	0.0064189	0.000041
839.298	0.0076077	0.0001401
841.228	0.009351	0.0001433
843.157	0.0104787	0.0001277
845.086	0.0127918	0.0001939
847.016	0.0163098	0.0002013
848.945	0.0217444	0.0002983
850.874	0.0281444	0.00028
852.804	0.034651	0.0003587
854.733	0.0421062	0.0004556
856.663	0.05097	0.0005682
858.592	0.0618346	0.0005977
860.521	0.0747485	0.0007544
862.451	0.0864948	0.0008222
864.38	0.0981588	0.0009013
866.31	0.106741	0.0009327
868.239	0.112505	0.0009675
870.168	0.115141	0.0009969
872.098	0.113225	0.0009093
874.027	0.107493	0.0008473
875.956	0.0998272	0.0008414
877.886	0.103454	0.0010487
879.815	0.18008	0.0015058
881.745	0.111832	0.0009325
883.674	0.129701	0.0010285
885.603	0.117622	0.0009892
887.533	0.116594	0.0010238
889.462	0.123992	0.0010863
891.392	0.168864	0.0017326
893.321	0.134415	0.0010625
895.25	0.131333	0.0010283
897.18	0.134874	0.0011179
899.109	0.13137	0.0010368
901.038	0.124061	0.0009149
902.968	0.113613	0.000787
904.897	0.10163	0.0007708
906.827	0.0886938	0.0006413
908.756	0.0765653	0.0005396
910.685	0.0634567	0.0004775
912.615	0.0518038	0.0004063
914.544	0.0414984	0.0003235
916.473	0.0329713	0.000267
918.403	0.0271301	0.0002182
920.332	0.0227473	0.0002116
922.262	0.019552	0.0001538

Ethanol 40.11 Mole % 28.2 Torr ES40AV
ES40AD

WN (cm-1)	AVE (A.U.)	AD (A.U.)
924.191	0.0159068	0.0001642
926.12	0.0128016	0.0001179
928.05	0.010781	0.0001288
929.979	0.0095339	0.0001481
931.909	0.0086051	0.0000871
933.838	0.0079383	0.0000819
935.767	0.0066885	0.0000884
937.697	0.0051609	0.0000977
939.626	0.0037685	0.0001033
941.555	0.0034737	0.0000946
943.485	0.0033348	0.0001027
945.414	0.0035506	0.0000867
947.344	0.003039	0.0000833
949.273	0.0022505	0.0000693
951.202	0.0010432	0.0000863
953.132	0.0015565	0.0000723
955.061	0.0018925	0.0000888
956.991	0.0029931	0.0001022
958.92	0.0035132	0.0000841
960.849	0.0044464	0.0000732
962.779	0.0038733	0.0000943
964.708	0.0050126	0.0001028
966.637	0.0065465	0.0001284
968.567	0.0083369	0.0001458
970.496	0.0103557	0.0001432
972.426	0.0123427	0.0001308
974.355	0.0138653	0.0001992
976.284	0.0165286	0.0001912
978.214	0.0194642	0.0001996
980.143	0.0232846	0.0002579
982.072	0.027249	0.000347
984.002	0.031191	0.0003041
985.931	0.0350347	0.000364
987.861	0.0405775	0.0004351
989.79	0.0477268	0.0004891
991.719	0.0563529	0.0005657
993.649	0.0654671	0.0006877
995.578	0.0762487	0.0008138
997.508	0.0873728	0.0009205
999.437	0.102785	0.0011026
1001.36	0.118772	0.0012468
1003.29	0.139521	0.0015024
1005.22	0.163037	0.0016101
1007.15	0.180261	0.0018665
1009.08	0.201189	0.0019596

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1011.01	0.225739	0.0023344
1012.94	0.249525	0.0024421
1014.87	0.270594	0.0025252
1016.8	0.285521	0.0025233
1018.73	0.296935	0.0027087
1020.66	0.30087	0.0027366
1022.59	0.311866	0.0027671
1024.51	0.322803	0.0031442
1026.44	0.40264	0.0040495
1028.37	0.509551	0.0036476
1030.3	0.370296	0.0031848
1032.23	0.423084	0.0041454
1034.16	0.477416	0.0046285
1036.09	0.53652	0.0055791
1038.02	0.645879	0.0057042
1039.95	0.631077	0.00585
1041.88	0.68078	0.0062163
1043.81	0.718433	0.0067133
1045.74	0.749946	0.0067374
1047.67	0.775146	0.0070469
1049.6	0.791145	0.0067188
1051.53	0.803336	0.0069633
1053.45	0.814718	0.0067871
1055.38	0.809168	0.0065561
1057.31	0.865363	0.0075774
1059.24	0.780578	0.0060371
1061.17	0.72406	0.0061249
1063.1	0.751109	0.0070653
1065.03	0.838362	0.0081854
1066.96	0.950178	0.0077561
1068.89	0.737195	0.0057777
1070.82	0.749697	0.0065534
1072.75	0.783511	0.0064809
1074.68	0.804282	0.0066373
1076.61	0.798425	0.0060913
1078.54	0.77573	0.0062267
1080.47	0.731443	0.005171
1082.39	0.674867	0.0048753
1084.32	0.617163	0.0042954
1086.25	0.558365	0.003648
1088.18	0.497605	0.0035953
1090.11	0.474905	0.0031646
1092.04	0.35651	0.0023619
1093.97	0.333826	0.0024395
1095.9	0.315683	0.002454

Ethanol 40.11 Mole % 28.2 Torr ES40AV ES40AD

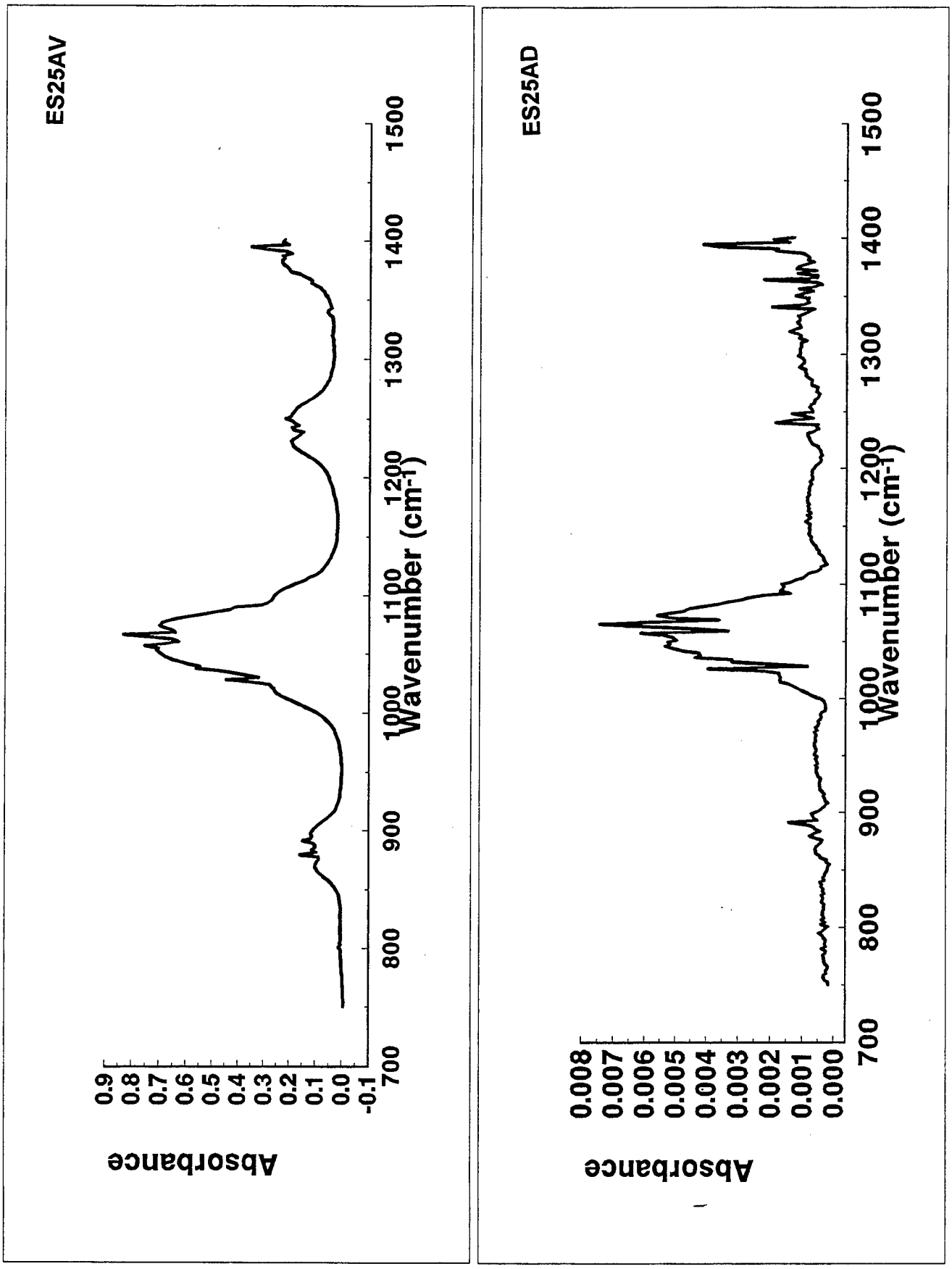
WN (cm-1)	AVE (A.U.)	AD (A.U.)
1097.83	0.309572	0.0023591
1099.76	0.302448	0.0023555
1101.69	0.293224	0.0021962
1103.62	0.280021	0.0020201
1105.55	0.261257	0.0018771
1107.48	0.237941	0.0017107
1109.41	0.213862	0.0015545
1111.33	0.188649	0.0012836
1113.26	0.164056	0.0011927
1115.19	0.147528	0.0011032
1117.12	0.124067	0.0008976
1119.05	0.108763	0.0008752
1120.98	0.0948169	0.0007379
1122.91	0.0851233	0.0006654
1124.84	0.0775909	0.0006504
1126.77	0.0707314	0.0005917
1128.7	0.0646505	0.0005212
1130.63	0.0587222	0.0005219
1132.56	0.0531274	0.0004604
1134.49	0.0492472	0.0004592
1136.42	0.0448295	0.0003973
1138.34	0.0408174	0.0003915
1140.27	0.0371374	0.000391
1142.2	0.0341953	0.000327
1144.13	0.030866	0.0003035
1146.06	0.0286977	0.0003263
1147.99	0.0268488	0.000309
1149.92	0.0262393	0.0002809
1151.85	0.0267302	0.0003121
1153.78	0.0259811	0.0002867
1155.71	0.0247132	0.0002943
1157.64	0.0241493	0.000297
1159.57	0.0242477	0.0002925
1161.5	0.0244687	0.0002867
1163.43	0.0245149	0.0003173
1165.36	0.0251853	0.0003266
1167.28	0.0250862	0.000298
1169.21	0.025045	0.000286
1171.14	0.0255486	0.0003168
1173.07	0.0273963	0.0003462
1175	0.0288734	0.0003695
1176.93	0.0295007	0.0003695
1178.86	0.031099	0.0003812
1180.79	0.0334503	0.0004211
1182.72	0.0358463	0.0004019

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1184.65	0.0387232	0.0004773
1186.58	0.0413312	0.0004679
1188.51	0.0434207	0.0004977
1190.44	0.0454821	0.0004895
1192.37	0.0488461	0.0005264
1194.3	0.0526927	0.0005647
1196.22	0.0560948	0.0005647
1198.15	0.0600951	0.0006691
1200.08	0.0621798	0.0006157
1202.01	0.0662789	0.0006867
1203.94	0.071393	0.0007067
1205.87	0.0788204	0.0008559
1207.8	0.0867934	0.0009639
1209.73	0.0944633	0.0010044
1211.66	0.104793	0.0011291
1213.59	0.116865	0.0012521
1215.52	0.130884	0.0013672
1217.45	0.148359	0.0015595
1219.38	0.164564	0.0016859
1221.31	0.180937	0.0017967
1223.24	0.19567	0.0019052
1225.16	0.207596	0.0019431
1227.09	0.217687	0.0019869
1229.02	0.223412	0.0018645
1230.95	0.225129	0.001952
1232.88	0.214521	0.0017414
1234.81	0.198927	0.0016394
1236.74	0.18566	0.0015346
1238.67	0.1739	0.0016253
1240.6	0.216588	0.0025796
1242.53	0.220189	0.0016018
1244.46	0.192756	0.0017035
1246.39	0.21102	0.0020011
1248.32	0.224069	0.0022872
1250.25	0.251271	0.0021764
1252.17	0.228301	0.0019024
1254.1	0.223905	0.001873
1256.03	0.214529	0.0016893
1257.96	0.206287	0.0017173
1259.89	0.19851	0.0014858
1261.82	0.181537	0.0013211
1263.75	0.166595	0.0011899
1265.68	0.150489	0.0010637
1267.61	0.13362	0.000984
1269.54	0.11878	0.0008604

Ethanol 40.11 Mole % 28.2 Torr ES40AV
ES40AD

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1271.47	0.106626	0.0008317
1273.4	0.0954447	0.0007022
1275.33	0.0857202	0.0006898
1277.26	0.0802117	0.0006707
1279.19	0.0735706	0.0006755
1281.11	0.0681896	0.0005833
1283.04	0.0622025	0.0006171
1284.97	0.0576431	0.0004939
1286.9	0.0550988	0.0005565
1288.83	0.0533885	0.0005109
1290.76	0.0506129	0.0005375
1292.69	0.0471256	0.0004732
1294.62	0.0454676	0.0004624
1296.55	0.0450981	0.0004985
1298.48	0.0428711	0.0005163
1300.41	0.0416567	0.0004403
1302.34	0.041153	0.0004436
1304.27	0.0423936	0.0004926
1306.2	0.0423327	0.0004811
1308.13	0.0428228	0.0004439
1310.05	0.041751	0.0004593
1311.98	0.0433508	0.0005304
1313.91	0.0439414	0.0004583
1315.84	0.0429043	0.0005179
1317.77	0.0452552	0.00045
1319.7	0.0487016	0.0003642
1321.63	0.0457162	0.00041
1323.56	0.04585	0.0004937
1325.49	0.0454647	0.0004668
1327.42	0.0436403	0.0005216
1329.35	0.0441267	0.0005388
1331.28	0.0450475	0.0005841
1333.21	0.0462763	0.0006496
1335.14	0.04676	0.0006589
1337.06	0.0578176	0.0006985
1338.99	0.0645128	0.0007105
1340.92	0.062858	0.0003068
1342.85	0.0537662	0.0005821
1344.78	0.0559284	0.0006695
1346.71	0.0586119	0.0007198
1348.64	0.0626599	0.0008341
1350.57	0.0653026	0.0007302
1352.5	0.0710548	0.0008173
1354.43	0.0789886	0.0010474
1356.36	0.0831593	0.0009701

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1358.29	0.0929605	0.0011401
1360.22	0.100962	0.0014137
1362.15	0.119321	0.0014377
1364.08	0.134717	0.0009927
1366	0.137843	0.0016006
1367.93	0.154141	0.0016687
1369.86	0.172477	0.0015019
1371.79	0.191414	0.0018629
1373.72	0.226023	0.0021885
1375.65	0.234609	0.0017028
1377.58	0.245612	0.0023571
1379.51	0.260888	0.0021493
1381.44	0.268204	0.0022295
1383.37	0.268565	0.0021645
1385.3	0.257922	0.0021061
1387.23	0.260995	0.002045
1389.16	0.226125	0.0018396
1391.09	0.250591	0.0027483
1393.02	0.333185	0.0042776
1394.94	0.388521	0.0019409
1396.87	0.235513	0.0014285
1398.8	0.25902	0.0026155
1400.73	0.257765	0.0017081


ES25AV
Absorbance
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
-0.1
700
800
900
1000
1100
1200
1300
1400
1500
Wavenumber (cm-1)
ES25AD
Absorbance
0.008
0.007
0.006
0.005
0.004
0.003
0.002
0.001
0.000
700
800
900
1000
1100
1200
1300
1400
1500
Wavenumber (cm-1)

Ethanol 25.03 Mole % 23.6 Torr ES25AV
ES25AD

WN (cm-1)	AVE (A.U.)	AD (A.U.)
750.547	-0.0072505	0.000166
752.476	-0.0071453	0.0001743
754.405	-0.0077332	0.0002738
756.335	-0.0071847	0.0003195
758.264	-0.0062379	0.0003146
760.194	-0.0057486	0.0002328
762.123	-0.0054587	0.0002509
764.052	-0.0061747	0.0001931
765.982	-0.0056798	0.000178
767.911	-0.0050489	0.0002522
769.84	-0.0039841	0.0002988
771.77	-0.0031295	0.0002949
773.699	-0.0031716	0.0003156
775.629	-0.003013	0.0003326
777.558	-0.0021513	0.0002593
779.487	-0.0008821	0.0002471
781.417	0.0002603	0.0003774
783.346	0.0004238	0.0002494
785.275	0.0011474	0.0002825
787.205	0.000961	0.0002592
789.134	0.0009977	0.0002491
791.064	0.0017882	0.0003201
792.993	0.0023072	0.0003569
794.922	0.0031927	0.0004598
796.852	0.0028392	0.0003437
798.781	0.0036764	0.0002723
800.711	0.0099	0.0001729
802.64	0.0042382	0.0003851
804.569	0.0056977	0.0002718
806.499	0.0040106	0.000376
808.428	0.0035397	0.0002984
810.357	0.0031188	0.0003454
812.287	0.005127	0.0003445
814.216	0.0048562	0.0003457
816.146	0.004884	0.0003028
818.075	0.0045832	0.0003177
820.004	0.0038257	0.0003012
821.934	0.0029893	0.0003778
823.863	0.0033524	0.0003563
825.792	0.0041011	0.0003324
827.722	0.0042106	0.000377
829.651	0.0042086	0.0003013
831.581	0.0039085	0.0003447
833.51	0.0032507	0.0003288
835.439	0.0037616	0.000385

WN (cm-1)	AVE (A.U.)	AD (A.U.)
837.369	0.0053889	0.0003635
839.298	0.0066147	0.000426
841.228	0.0079745	0.0002895
843.157	0.0086723	0.0003412
845.086	0.0105935	0.0002825
847.016	0.0138273	0.0002703
848.945	0.0184953	0.0002027
850.874	0.0240434	0.0001945
852.804	0.0296848	0.0001812
854.733	0.035773	0.0001269
856.663	0.0434754	0.0002267
858.592	0.0529567	0.0002233
860.521	0.0642931	0.0004068
862.451	0.0746886	0.0004321
864.38	0.084624	0.0005557
866.31	0.0920448	0.000564
868.239	0.097128	0.0005744
870.168	0.0995496	0.0005499
872.098	0.0979015	0.0004687
874.027	0.0932398	0.0003946
875.956	0.086206	0.0003633
877.886	0.0888452	0.0005768
879.815	0.156318	0.0007484
881.745	0.0962642	0.0006358
883.674	0.112319	0.0004315
885.603	0.101613	0.000577
887.533	0.100623	0.0006228
889.462	0.106917	0.000798
891.392	0.14546	0.0014071
893.321	0.116101	0.0005324
895.25	0.113632	0.0006274
897.18	0.116644	0.0006494
899.109	0.113513	0.000691
901.038	0.107437	0.0005
902.968	0.098153	0.0003966
904.897	0.0877492	0.0003153
906.827	0.0766007	0.0002548
908.756	0.0661837	0.0001803
910.685	0.0547889	0.0002831
912.615	0.0444966	0.0002792
914.544	0.0355075	0.0003229
916.473	0.0281277	0.0002947
918.403	0.0229324	0.0003687
920.332	0.0191914	0.0004319
922.262	0.0163197	0.0004406

Ethanol 25.03 Mole % 23.6 Torr ES25AV
ES25AD

WN (cm-1)	AVE (A.U.)	AD (A.U.)	WN (cm-1)	AVE (A.U.)	AD (A.U.)
924.191	0.0132537	0.0004543	1011.01	0.195738	0.001294
926.12	0.0102337	0.0004563	1012.94	0.216478	0.0014283
928.05	0.0084086	0.0004308	1014.87	0.235036	0.0016964
929.979	0.0073853	0.0004116	1016.8	0.248114	0.0017117
931.909	0.0065721	0.0004856	1018.73	0.2579	0.0016942
933.838	0.0060582	0.0005229	1020.66	0.261203	0.00174
935.767	0.0049345	0.0005441	1022.59	0.270384	0.0017446
937.697	0.0033907	0.0005607	1024.51	0.279311	0.0022536
939.626	0.0022854	0.0005319	1026.44	0.347252	0.0039504
941.555	0.001956	0.000565	1028.37	0.444514	0.0008564
943.485	0.0019734	0.0005179	1030.3	0.321284	0.0020857
945.414	0.0020547	0.0005518	1032.23	0.367773	0.0032049
947.344	0.0014719	0.0005782	1034.16	0.417147	0.0032046
949.273	0.0008235	0.0005428	1036.09	0.463751	0.0043651
951.202	-0.0003906	0.0006075	1038.02	0.56075	0.0041928
953.132	0.0001786	0.0005895	1039.95	0.547379	0.0042358
955.061	0.0004519	0.0005572	1041.88	0.590396	0.0047595
956.991	0.0013277	0.0005854	1043.81	0.623353	0.0050207
958.92	0.00186	0.0006076	1045.74	0.651161	0.0053283
960.849	0.0025197	0.0006196	1047.67	0.673821	0.0051853
962.779	0.0020872	0.0005752	1049.6	0.68764	0.0052563
964.708	0.0031511	0.0005884	1051.53	0.699136	0.0049834
966.637	0.0045854	0.0005791	1053.45	0.708628	0.0050605
968.567	0.0059819	0.0005627	1055.38	0.703588	0.0053641
970.496	0.0078148	0.0006093	1057.31	0.751662	0.006137
972.426	0.0094102	0.0005372	1059.24	0.68124	0.003333
974.355	0.0107002	0.0005737	1061.17	0.629841	0.0043626
976.284	0.0132009	0.0005131	1063.1	0.650754	0.0059554
978.214	0.0158284	0.0004929	1065.03	0.724862	0.0074367
980.143	0.0192663	0.0005025	1066.96	0.829591	0.0057242
982.072	0.0228089	0.0004207	1068.89	0.642858	0.003622
984.002	0.0261723	0.0004025	1070.82	0.65055	0.0051529
985.931	0.0292813	0.0004232	1072.75	0.678456	0.0055902
987.861	0.0340288	0.0003876	1074.68	0.697821	0.0051906
989.79	0.0403883	0.0002645	1076.61	0.69212	0.0047252
991.719	0.0479544	0.0002643	1078.54	0.67303	0.0046057
993.649	0.0560609	0.0002566	1080.47	0.634686	0.0041736
995.578	0.0655285	0.0002841	1082.39	0.585669	0.0036232
997.508	0.0749806	0.0003106	1084.32	0.535661	0.0033749
999.437	0.0885697	0.0003961	1086.25	0.484205	0.0029341
1001.36	0.102539	0.0005813	1088.18	0.431366	0.0027225
1003.29	0.120655	0.0007404	1090.11	0.412439	0.0022432
1005.22	0.141115	0.000847	1092.04	0.309032	0.001404
1007.15	0.156253	0.0010174	1093.97	0.288463	0.0016999
1009.08	0.174499	0.0011764	1095.9	0.272295	0.0016302

Ethanol 25.03 Mole % 23.6 Torr ES25AV
ES25AD

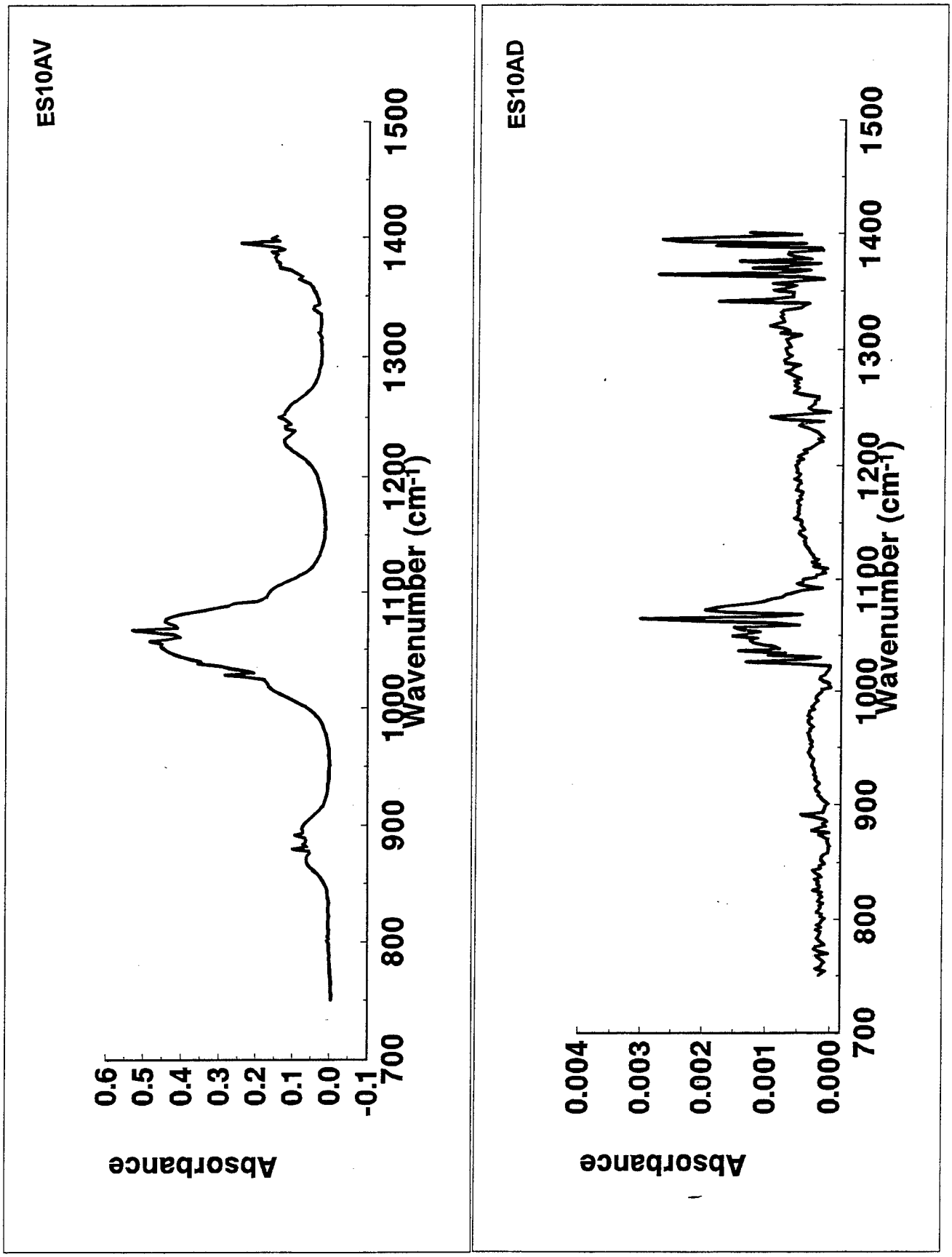
WN (cm-1)	AVE (A.U.)	AD (A.U.)
1097.83	0.266915	0.0016007
1099.76	0.260746	0.0016563
1101.69	0.252888	0.0013903
1103.62	0.241496	0.0012262
1105.55	0.22515	0.0009964
1107.48	0.20479	0.0009143
1109.41	0.183889	0.0008296
1111.33	0.162042	0.0005444
1113.26	0.140582	0.0004478
1115.19	0.126185	0.0004221
1117.12	0.10579	0.0002439
1119.05	0.0923862	0.0002808
1120.98	0.0803764	0.000343
1122.91	0.0719649	0.0003424
1124.84	0.0653139	0.0004033
1126.77	0.0592803	0.0004986
1128.7	0.0539863	0.0004927
1130.63	0.0488567	0.0005699
1132.56	0.0441295	0.0005791
1134.49	0.0408348	0.0006532
1136.42	0.0368653	0.0007106
1138.34	0.0333977	0.0007506
1140.27	0.0300689	0.0007295
1142.2	0.0276034	0.0007955
1144.13	0.024797	0.0008215
1146.06	0.0228948	0.0007862
1147.99	0.0213839	0.000797
1149.92	0.0207924	0.0007971
1151.85	0.0213345	0.0007921
1153.78	0.0205978	0.0009101
1155.71	0.0195398	0.0008399
1157.64	0.0190946	0.0007671
1159.57	0.0192696	0.0008555
1161.5	0.0193993	0.0007518
1163.43	0.0195259	0.0008399
1165.36	0.0200333	0.0008144
1167.28	0.019968	0.0008423
1169.21	0.0199645	0.0008159
1171.14	0.0204418	0.0008674
1173.07	0.0221933	0.0008693
1175	0.0234281	0.0008689
1176.93	0.0239912	0.0008172
1178.86	0.0252525	0.0008327
1180.79	0.0272782	0.0008087
1182.72	0.0292665	0.000822

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1184.65	0.0319137	0.0007908
1186.58	0.0341749	0.000738
1188.51	0.0358046	0.0007758
1190.44	0.0376512	0.0007161
1192.37	0.0406939	0.0007039
1194.3	0.0440713	0.0007285
1196.22	0.0470859	0.0007186
1198.15	0.0504971	0.0007303
1200.08	0.0522123	0.0006599
1202.01	0.0558439	0.0006227
1203.94	0.0602004	0.0005449
1205.87	0.0667419	0.0004595
1207.8	0.0735707	0.0004451
1209.73	0.0804114	0.0004682
1211.66	0.0890691	0.0004005
1213.59	0.0997142	0.0004442
1215.52	0.111808	0.0004533
1217.45	0.126955	0.0005068
1219.38	0.140989	0.0005462
1221.31	0.155071	0.0006944
1223.24	0.167992	0.0007531
1225.16	0.17887	0.0007932
1227.09	0.187441	0.0008194
1229.02	0.192316	0.00087
1230.95	0.194118	0.0008617
1232.88	0.184977	0.0006644
1234.81	0.171558	0.0005181
1236.74	0.159937	0.0005921
1238.67	0.149531	0.000551
1240.6	0.184825	0.0018581
1242.53	0.191779	0.0014381
1244.46	0.166448	0.0006876
1246.39	0.181423	0.0009658
1248.32	0.19225	0.0013463
1250.25	0.216665	0.0007083
1252.17	0.196735	0.0007278
1254.1	0.192808	0.0007977
1256.03	0.184734	0.0007577
1257.96	0.177645	0.0006547
1259.89	0.170908	0.0006531
1261.82	0.155967	0.0005641
1263.75	0.142996	0.0005062
1265.68	0.129182	0.0004918
1267.61	0.114245	0.0005897
1269.54	0.101229	0.000564

Ethanol 25.03 Mole % 23.6 Torr ES25AV
ES25AD

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1271.47	0.0909026	0.0005547
1273.4	0.0806818	0.0007312
1275.33	0.0724629	0.0007453
1277.26	0.0678027	0.0007207
1279.19	0.0617939	0.0008051
1281.11	0.0572377	0.0009105
1283.04	0.0519116	0.0009045
1284.97	0.0481666	0.0009546
1286.9	0.0457545	0.0009329
1288.83	0.0445032	0.001123
1290.76	0.0420395	0.0010597
1292.69	0.0388056	0.0009769
1294.62	0.0372698	0.0009799
1296.55	0.0370256	0.0010287
1298.48	0.035149	0.0011592
1300.41	0.0340785	0.0011089
1302.34	0.0336926	0.0011185
1304.27	0.034634	0.0011152
1306.2	0.0347965	0.0010743
1308.13	0.035244	0.0010805
1310.05	0.0341634	0.0010778
1311.98	0.03573	0.0009076
1313.91	0.0367469	0.0011331
1315.84	0.0355531	0.0010815
1317.77	0.0380274	0.001184
1319.7	0.041855	0.0014332
1321.63	0.0380449	0.0012808
1323.56	0.038231	0.0010847
1325.49	0.0377381	0.0011289
1327.42	0.0361698	0.0011974
1329.35	0.036368	0.0011249
1331.28	0.0374811	0.0011165
1333.21	0.038387	0.0011661
1335.14	0.0390127	0.0009802
1337.06	0.0505686	0.0008077
1338.99	0.0574664	0.0006628
1340.92	0.0562524	0.0019796
1342.85	0.0447838	0.0010167
1344.78	0.0467987	0.0008375
1346.71	0.049206	0.0008716
1348.64	0.0527493	0.0008388
1350.57	0.0551971	0.001248
1352.5	0.060085	0.0009998
1354.43	0.067341	0.0007011
1356.36	0.0702385	0.001131

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1358.29	0.0789847	0.000678
1360.22	0.0857081	0.0004316
1362.15	0.104326	0.0006361
1364.08	0.119537	0.0022315
1366	0.118407	0.0005802
1367.93	0.132717	0.0005676
1369.86	0.148973	0.0011968
1371.79	0.164529	0.0006047
1373.72	0.197943	0.0012198
1375.65	0.204723	0.0011525
1377.58	0.211569	0.0009317
1379.51	0.224961	0.0006967
1381.44	0.231409	0.0008693
1383.37	0.231845	0.0008186
1385.3	0.223201	0.0009175
1387.23	0.230457	0.0010303
1389.16	0.194834	0.001871
1391.09	0.214914	0.0018075
1393.02	0.285626	0.0036517
1394.94	0.351733	0.0041208
1396.87	0.207877	0.0014646
1398.8	0.228763	0.0019285
1400.73	0.223116	0.0013045


ES10AV
Absorbance
0.6
0.5
0.4
0.3
0.2
0.1
0.0
-0.1
700
800
900
1000
1100
1200
1300
1400
1500
Wavenumber (cm-1)
ES10AD
Absorbance
0.004
0.003
0.002
0.001
0.000
700
800
900
1000
1100
1200
1300
1400
1500
Wavenumber (cm-1)

Ethanol 10.02 Mole % 15.8 Torr ES10AV
ES10AD

WN (cm-1)	AVE (A.U.)	AD (A.U.)	WN (cm-1)	AVE (A.U.)	AD (A.U.)
750.547	-0.0054529	0.0001634	837.369	0.0035846	0.000141
752.476	-0.0053879	0.0001228	839.298	0.0043416	0.0001739
754.405	-0.0056119	0.0000784	841.228	0.0050153	0.0002259
756.335	-0.0053311	0.0002137	843.157	0.0053887	0.000265
758.264	-0.0045701	0.000135	845.086	0.0064182	0.0001502
760.194	-0.0045287	0.0001216	847.016	0.0085027	0.0001582
762.123	-0.0040414	0.0000949	848.945	0.0115408	0.0000906
764.052	-0.0051905	0.0001235	850.874	0.0152798	0.0001172
765.982	-0.0047983	0.0001692	852.804	0.0188215	0.0001416
767.911	-0.0038483	0.0002049	854.733	0.0223561	0.0001306
769.84	-0.0032425	0.0000305	856.663	0.0271021	0.0001011
771.77	-0.0023741	0.0001685	858.592	0.0329136	0.0000379
773.699	-0.0026409	0.000235	860.521	0.0404843	0.0000322
775.629	-0.0025535	0.0002165	862.451	0.0472911	0.0000299
777.558	-0.0021041	0.0000874	864.38	0.0533654	0.0000169
779.487	-0.0014181	0.0001228	866.31	0.0582022	0.0000381
781.417	-0.0004656	0.0001588	868.239	0.0611257	0.0000516
783.346	-0.0003633	0.0001955	870.168	0.0626378	0.0000375
785.275	0.0004325	0.0001738	872.098	0.061982	0.0000987
787.205	-0.000157	0.0001577	874.027	0.0592279	0.0001758
789.134	-7.51E-06	0.0001467	875.956	0.0545276	0.0000273
791.064	0.0003048	0.0002051	877.886	0.0559643	0.0002796
792.993	0.0009857	0.0001415	879.815	0.0988947	0.0001992
794.922	0.0015533	0.0001936	881.745	0.0610132	0.0000728
796.852	0.0013433	0.0001395	883.674	0.0710071	0.0001186
798.781	0.0015419	0.0001255	885.603	0.0648283	0.0000603
800.711	0.0056514	0.000084	887.533	0.0639028	0.0001006
802.64	0.0021824	0.0001477	889.462	0.0675652	0.0002317
804.569	0.003479	0.0001316	891.392	0.092158	0.0004411
806.499	0.0023939	0.0001993	893.321	0.0733785	0.000114
808.428	0.0020439	0.0001733	895.25	0.0721111	0.0001068
810.357	0.0014808	0.0001456	897.18	0.0742911	0.0000883
812.287	0.0029986	0.0001617	899.109	0.0725367	0.0000823
814.216	0.0027654	0.0001113	901.038	0.0683894	0.0000391
816.146	0.002891	0.0001798	902.968	0.0624246	0.0000876
818.075	0.0029068	0.0001601	904.897	0.0556388	0.0001262
820.004	0.0023069	0.0001257	906.827	0.0485698	0.0001498
821.934	0.0014066	0.0001715	908.756	0.0426138	0.0001877
823.863	0.0018712	0.0001302	910.685	0.0354555	0.0001764
825.792	0.002865	0.0002555	912.615	0.0290545	0.0002163
827.722	0.0031133	0.0001641	914.544	0.0231317	0.0002328
829.651	0.0029393	0.0001641	916.473	0.017871	0.0002092
831.581	0.0024165	0.0001962	918.403	0.0149147	0.000176
833.51	0.0016153	0.000173	920.332	0.0127392	0.0002082
835.439	0.0021832	0.0002297	922.262	0.0111035	0.000236

Ethanol 10.02 Mole % 15.8 Torr ES10AV
ES10AD

WN (cm-1)	AVE (A.U.)	AD (A.U.)
924.191	0.0089604	0.0002217
926.12	0.006755	0.0002531
928.05	0.0052368	0.0002403
929.979	0.004761	0.0002555
931.909	0.0045834	0.0002609
933.838	0.0042599	0.0002877
935.767	0.0034361	0.0002861
937.697	0.0021055	0.0002751
939.626	0.0011265	0.0002662
941.555	0.0010648	0.000305
943.485	0.001158	0.0003146
945.414	0.001418	0.0003391
947.344	0.001119	0.0003256
949.273	0.0004768	0.0003158
951.202	-0.0008685	0.0002888
953.132	-0.0004509	0.0003102
955.061	-0.0000733	0.0002818
956.991	0.0006196	0.000315
958.92	0.0010825	0.0003267
960.849	0.0013356	0.0003326
962.779	0.0007209	0.0003474
964.708	0.001486	0.0003181
966.637	0.002544	0.0003186
968.567	0.0036995	0.0002727
970.496	0.0048199	0.0003194
972.426	0.0059323	0.0003477
974.355	0.0066975	0.0003447
976.284	0.0084017	0.0003046
978.214	0.0103838	0.0003438
980.143	0.0129247	0.0003376
982.072	0.0153865	0.0003283
984.002	0.0175205	0.0002615
985.931	0.0191504	0.0002919
987.861	0.0222918	0.0002636
989.79	0.0264282	0.0002379
991.719	0.0314298	0.0002015
993.649	0.0366967	0.0002282
995.578	0.0427813	0.0002231
997.508	0.048621	0.000182
999.437	0.0574513	0.0001433
1001.36	0.0665756	0.0001413
1003.29	0.0785694	9.35E-06
1005.22	0.0918084	0.0000372
1007.15	0.101686	0.0000316
1009.08	0.113263	0.0001241

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1011.01	0.126644	0.0001713
1012.94	0.140148	0.0001527
1014.87	0.152304	0.000092
1016.8	0.160853	0.0000749
1018.73	0.166814	0.0000402
1020.66	0.168473	0.0000266
1022.59	0.173502	0.000024
1024.51	0.178863	0.0005159
1026.44	0.222349	0.0013084
1028.37	0.283424	0.0004218
1030.3	0.206807	0.0001754
1032.23	0.239027	0.0009734
1034.16	0.274044	0.000714
1036.09	0.295896	0.0014269
1038.02	0.35687	0.0008144
1039.95	0.349614	0.0008881
1041.88	0.377094	0.0010767
1043.81	0.39879	0.0012149
1045.74	0.416799	0.0012638
1047.67	0.431759	0.001154
1049.6	0.441412	0.0015231
1051.53	0.448965	0.0013118
1053.45	0.455325	0.0011079
1055.38	0.452403	0.0014036
1057.31	0.483671	0.0014988
1059.24	0.437804	0.0005047
1061.17	0.404348	0.0008628
1063.1	0.416955	0.0020976
1065.03	0.464617	0.0030154
1066.96	0.529964	0.0008901
1068.89	0.411495	0.0004639
1070.82	0.415589	0.0015764
1072.75	0.432488	0.0019749
1074.68	0.44421	0.0018162
1076.61	0.44112	0.0015845
1078.54	0.428359	0.0012481
1080.47	0.403601	0.0010467
1082.39	0.372461	0.0009337
1084.32	0.340477	0.0007632
1086.25	0.308059	0.0007248
1088.18	0.274853	0.0005901
1090.11	0.262428	0.0004471
1092.04	0.197302	0.0001569
1093.97	0.183581	0.0003924
1095.9	0.172995	0.0005304

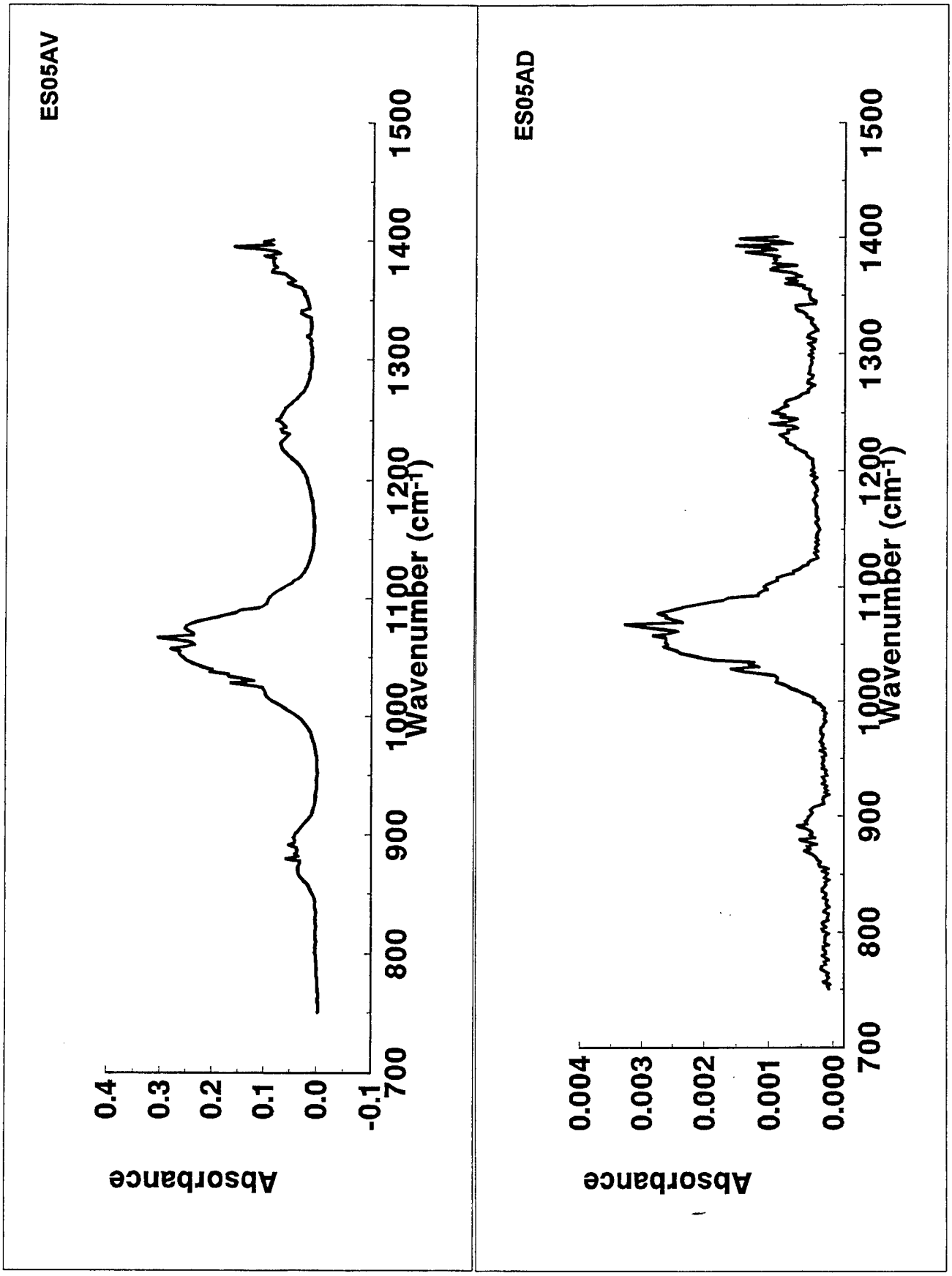
Ethanol 10.02 Mole % 15.8 Torr ES10AV
ES10AD

WN (cm-1)	AVE (A.U.)	AD (A.U.)	WN (cm-1)	AVE (A.U.)	AD (A.U.)
1097.83	0.169389	0.0004477	1184.65	0.0214593	0.0004949
1099.76	0.165577	0.0004429	1186.58	0.0232027	0.0005009
1101.69	0.160407	0.000249	1188.51	0.0240329	0.0005781
1103.62	0.15317	0.0002326	1190.44	0.025401	0.0005278
1105.55	0.142607	0.0001093	1192.37	0.0272545	0.0005069
1107.48	0.129846	0.0001425	1194.3	0.029604	0.0005516
1109.41	0.116497	0.0000777	1196.22	0.0314011	0.0005472
1111.33	0.102644	0.0002842	1198.15	0.0336795	0.0005571
1113.26	0.0891126	0.0001983	1200.08	0.0347487	0.0005658
1115.19	0.0801945	0.0003018	1202.01	0.0369353	0.0005359
1117.12	0.0668626	0.0002174	1203.94	0.0397604	0.000544
1119.05	0.058525	0.0002817	1205.87	0.0438014	0.0004617
1120.98	0.0511305	0.0002908	1207.8	0.0483627	0.0005311
1122.91	0.0457627	0.0003281	1209.73	0.052679	0.0004774
1124.84	0.0415615	0.0003464	1211.66	0.0583079	0.0004049
1126.77	0.0378373	0.0003662	1213.59	0.0647192	0.0004426
1128.7	0.0344644	0.0004001	1215.52	0.0723927	0.0003434
1130.63	0.0313442	0.000416	1217.45	0.0819026	0.0002856
1132.56	0.0282703	0.0004205	1219.38	0.0910228	0.0002346
1134.49	0.0262387	0.0004265	1221.31	0.100072	0.0001621
1136.42	0.0239571	0.0004142	1223.24	0.108373	0.0002176
1138.34	0.0217488	0.000472	1225.16	0.115614	0.0001509
1140.27	0.019556	0.0005072	1227.09	0.120871	0.0002042
1142.2	0.0179954	0.0005042	1229.02	0.124163	0.0002257
1144.13	0.0164803	0.0004373	1230.95	0.125297	0.0003074
1146.06	0.0152021	0.0004632	1232.88	0.119458	0.000375
1147.99	0.014229	0.0004821	1234.81	0.11102	0.000516
1149.92	0.0139397	0.000475	1236.74	0.103444	0.0004788
1151.85	0.0144249	0.0004829	1238.67	0.0968634	0.0001563
1153.78	0.0136155	0.0005797	1240.6	0.120578	0.0007636
1155.71	0.012967	0.0005397	1242.53	0.122942	0.0009618
1157.64	0.0127945	0.0005224	1244.46	0.107514	0.0005042
1159.57	0.0131375	0.0005341	1246.39	0.116469	0.0000512
1161.5	0.0132307	0.0005158	1248.32	0.123465	0.000312
1163.43	0.0134145	0.0005214	1250.25	0.138643	0.0003764
1165.36	0.0138651	0.0005092	1252.17	0.126244	0.000326
1167.28	0.0137409	0.0005363	1254.1	0.123952	0.0002797
1169.21	0.0136263	0.0005377	1256.03	0.118742	0.0002849
1171.14	0.0138956	0.0004821	1257.96	0.11415	0.0002247
1173.07	0.0152416	0.0005049	1259.89	0.110286	0.0002243
1175	0.0161523	0.0004727	1261.82	0.100904	0.000489
1176.93	0.0163348	0.0004642	1263.75	0.0925068	0.0006007
1178.86	0.0172409	0.0005545	1265.68	0.0837317	0.0005669
1180.79	0.0185178	0.0005351	1267.61	0.0744531	0.0005378
1182.72	0.0196357	0.0005334	1269.54	0.0664261	0.0005895

Ethanol 10.02 Mole % 15.8 Torr ES10AV
ES10AD

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1271.47	0.0599436	0.0005455
1273.4	0.0524804	0.0005985
1275.33	0.0471417	0.0005104
1277.26	0.044106	0.0005894
1279.19	0.040269	0.000642
1281.11	0.0377014	0.000731
1283.04	0.0341484	0.0006411
1284.97	0.0318652	0.0006213
1286.9	0.0304369	0.00052
1288.83	0.0299702	0.0007458
1290.76	0.0284182	0.0007548
1292.69	0.0258257	0.0007033
1294.62	0.0249396	0.0006458
1296.55	0.0250977	0.0007132
1298.48	0.023613	0.0007258
1300.41	0.0228777	0.0007387
1302.34	0.0227128	0.0006677
1304.27	0.0233819	0.0006839
1306.2	0.0235072	0.0007122
1308.13	0.02425	0.0007273
1310.05	0.0230256	0.0006452
1311.98	0.0248687	0.0005021
1313.91	0.0259287	0.0008159
1315.84	0.0241189	0.0006864
1317.77	0.0272105	0.0007833
1319.7	0.0313611	0.0009748
1321.63	0.0263936	0.0008771
1323.56	0.0260598	0.0007652
1325.49	0.0254784	0.0007832
1327.42	0.0245302	0.0008139
1329.35	0.0246993	0.0007893
1331.28	0.0255341	0.0008091
1333.21	0.0257955	0.0007803
1335.14	0.0260444	0.0005027
1337.06	0.0376561	0.0004531
1338.99	0.0452843	0.0003837
1340.92	0.0448526	0.0017789
1342.85	0.0309604	0.0009688
1344.78	0.0320755	0.0006275
1346.71	0.0331307	0.0006341
1348.64	0.0357008	0.0006236
1350.57	0.0372628	0.0009214
1352.5	0.0400282	0.0006983
1354.43	0.0454459	0.0005878
1356.36	0.0464369	0.0009396

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1358.29	0.0523344	0.000583
1360.22	0.0564994	0.0001581
1362.15	0.0722296	0.0005478
1364.08	0.0849298	0.0027566
1366	0.0779161	0.0006072
1367.93	0.0880544	0.0003699
1369.86	0.0988219	0.0012546
1371.79	0.10815	0.0005642
1373.72	0.137573	0.0002149
1375.65	0.139075	0.0014521
1377.58	0.138541	0.0003573
1379.51	0.146904	0.0006042
1381.44	0.149653	0.0007058
1383.37	0.150331	0.000696
1385.3	0.144743	0.000174
1387.23	0.159264	0.0002015
1389.16	0.127149	0.0018301
1391.09	0.138826	0.0004415
1393.02	0.183736	0.0024172
1394.94	0.242156	0.0026972
1396.87	0.140665	0.0017538
1398.8	0.159299	0.0005193
1400.73	0.147151	0.0012975


ES05AV
Absorbance
0.4
0.3
0.2
0.1
0.0
-0.1
700
800
900
1000
1100
1200
1300
1400
1500
Wavenumber (cm-1)
ES05AD
Absorbance
0.004
0.003
0.002
0.001
0.000
700
800
900
1000
1100
1200
1300
1400
1500
Wavenumber (cm-1)

Ethanol 5.08 Mole % 10.5 Torr ES05AV
ES05AD

WN (cm-1)	AVE (A.U.)	AD (A.U.)
750.547	-0.0031081	0.0000762
752.476	-0.0033112	0.0000882
754.405	-0.0035928	0.0000531
756.335	-0.0032405	0.0001509
758.264	-0.0027503	0.000099
760.194	-0.0025293	0.0000794
762.123	-0.0023835	0.0000976
764.052	-0.0035097	0.0000844
765.982	-0.0033016	0.0001473
767.911	-0.002226	0.0001915
769.84	-0.0020852	0.0001835
771.77	-0.001466	0.0001235
773.699	-0.0017374	0.0001416
775.629	-0.001954	0.0000821
777.558	-0.0016847	0.0001173
779.487	-0.0009331	0.0001714
781.417	-0.0000796	0.0001198
783.346	-0.0001527	0.000127
785.275	0.0000295	0.0001566
787.205	-0.000394	0.0001597
789.134	-0.0002856	0.000076
791.064	-0.0000685	0.0001379
792.993	0.00057	0.0001328
794.922	0.0011234	0.0001298
796.852	0.0008649	0.0001266
798.781	0.0009411	0.0000736
800.711	0.0032286	0.000154
802.64	0.0017207	0.0001681
804.569	0.0025207	0.0001165
806.499	0.0021048	0.0001559
808.428	0.0014868	0.0001638
810.357	0.0008018	0.0000811
812.287	0.0018143	0.0000944
814.216	0.0021571	0.0000768
816.146	0.0021868	0.0000809
818.075	0.0023265	0.0001473
820.004	0.0015457	0.0001137
821.934	0.0008663	0.0000638
823.863	0.0013391	0.0001057
825.792	0.0020735	0.0001119
827.722	0.0024906	0.0000934
829.651	0.0022668	0.0001556
831.581	0.0018921	0.0001149
833.51	0.0010319	0.0001164
835.439	0.0014029	0.000173

WN (cm-1)	AVE (A.U.)	AD (A.U.)
837.369	0.0025196	0.0001746
839.298	0.0031945	0.0001422
841.228	0.0035221	0.0001171
843.157	0.0031591	0.0001301
845.086	0.0036139	0.0000711
847.016	0.0048597	0.0001405
848.945	0.0068763	0.0001145
850.874	0.0093469	0.0000949
852.804	0.011244	0.0001711
854.733	0.0130894	0.0000837
856.663	0.0151689	0.000206
858.592	0.0185662	0.000226
860.521	0.0232339	0.0002012
862.451	0.0270613	0.0002481
864.38	0.0306158	0.0002686
866.31	0.0330721	0.0003081
868.239	0.0343677	0.0003659
870.168	0.0352718	0.0004485
872.098	0.0351661	0.0003645
874.027	0.0339468	0.0004132
875.956	0.0313938	0.0002661
877.886	0.0317749	0.0004036
879.815	0.0561429	0.0005191
881.745	0.0342964	0.0002928
883.674	0.0403487	0.0003749
885.603	0.0369672	0.0003382
887.533	0.0365282	0.0003718
889.462	0.0382953	0.0004341
891.392	0.0517737	0.0005563
893.321	0.0412509	0.00042
895.25	0.040712	0.000442
897.18	0.0423736	0.0004083
899.109	0.0413416	0.0003969
901.038	0.0388747	0.0003574
902.968	0.0349616	0.0003384
904.897	0.0310501	0.0003603
906.827	0.02745	0.0003361
908.756	0.024477	0.0002759
910.685	0.020564	0.0001505
912.615	0.0167223	0.0001584
914.544	0.0130553	0.0001651
916.473	0.0098942	0.0001534
918.403	0.0083718	0.0000698
920.332	0.0077399	0.0001357
922.262	0.0066331	0.0000974

Ethanol 5.08 Mole % 10.5 Torr ES05AV
ES05AD

WN (cm-1)	AVE (A.U.)	AD (A.U.)
924.191	0.0052299	0.0001381
926.12	0.0036341	0.0001005
928.05	0.0026113	0.0001738
929.979	0.0023146	0.0001358
931.909	0.002495	0.0001473
933.838	0.0023635	0.0001714
935.767	0.0018399	0.0001026
937.697	0.0005938	0.000133
939.626	-0.0001267	0.0001157
941.555	-0.000164	0.000174
943.485	0.0001424	0.0001563
945.414	0.0003988	0.0001743
947.344	0.000293	0.0001577
949.273	-0.0004557	0.0001566
951.202	-0.0016787	0.0001684
953.132	-0.0012377	0.0001226
955.061	-0.0007927	0.0001412
956.991	-0.0002868	0.0002061
958.92	0.0000577	0.0001403
960.849	-0.0000697	0.000177
962.779	-0.0004982	0.0001696
964.708	-0.0000824	0.0002062
966.637	0.0007493	0.0001904
968.567	0.0017485	0.0001813
970.496	0.0025194	0.0001655
972.426	0.0028293	0.0002025
974.355	0.0033242	0.000203
976.284	0.0046442	0.0001979
978.214	0.006042	0.0001635
980.143	0.0078275	0.0001551
982.072	0.0094192	0.0001233
984.002	0.0106224	0.0001525
985.931	0.0113136	0.0001367
987.861	0.0131117	0.000139
989.79	0.0158691	0.0001189
991.719	0.0190427	0.0001634
993.649	0.0223605	0.0001476
995.578	0.0259624	0.0001956
997.508	0.0292379	0.0002122
999.437	0.0345165	0.0003125
1001.36	0.0401001	0.0002967
1003.29	0.0474885	0.0003331
1005.22	0.0554494	0.0003982
1007.15	0.0611847	0.0004952
1009.08	0.0674921	0.0005638

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1011.01	0.0751338	0.000667
1012.94	0.0830868	0.0007023
1014.87	0.090249	0.0007811
1016.8	0.0950578	0.0008853
1018.73	0.0980226	0.0008726
1020.66	0.0985612	0.0008747
1022.59	0.100715	0.0009154
1024.51	0.103271	0.001138
1026.44	0.127507	0.0014084
1028.37	0.163749	0.0015814
1030.3	0.11983	0.0011581
1032.23	0.14188	0.001307
1034.16	0.168433	0.0012302
1036.09	0.169246	0.0018595
1038.02	0.204064	0.0020459
1039.95	0.199913	0.0022057
1041.88	0.21619	0.0023692
1043.81	0.228982	0.0024184
1045.74	0.239603	0.0025346
1047.67	0.249196	0.0026362
1049.6	0.254868	0.0025846
1051.53	0.259756	0.0026157
1053.45	0.263621	0.0026046
1055.38	0.261807	0.0026122
1057.31	0.278606	0.0028107
1059.24	0.253712	0.0025585
1061.17	0.233973	0.0024207
1063.1	0.240269	0.002729
1065.03	0.266443	0.0030028
1066.96	0.304035	0.0032602
1068.89	0.236226	0.0023467
1070.82	0.236848	0.0024672
1072.75	0.245817	0.002608
1074.68	0.252108	0.0025986
1076.61	0.249648	0.0027294
1078.54	0.241979	0.0025763
1080.47	0.227652	0.0024399
1082.39	0.209463	0.0022846
1084.32	0.19097	0.0021141
1086.25	0.172589	0.0019291
1088.18	0.153943	0.0017078
1090.11	0.146684	0.0016396
1092.04	0.110037	0.0011679
1093.97	0.101897	0.0011575
1095.9	0.0956821	0.0011135

Ethanol 5.08 Mole % 10.5 Torr ES05AV ES05AD

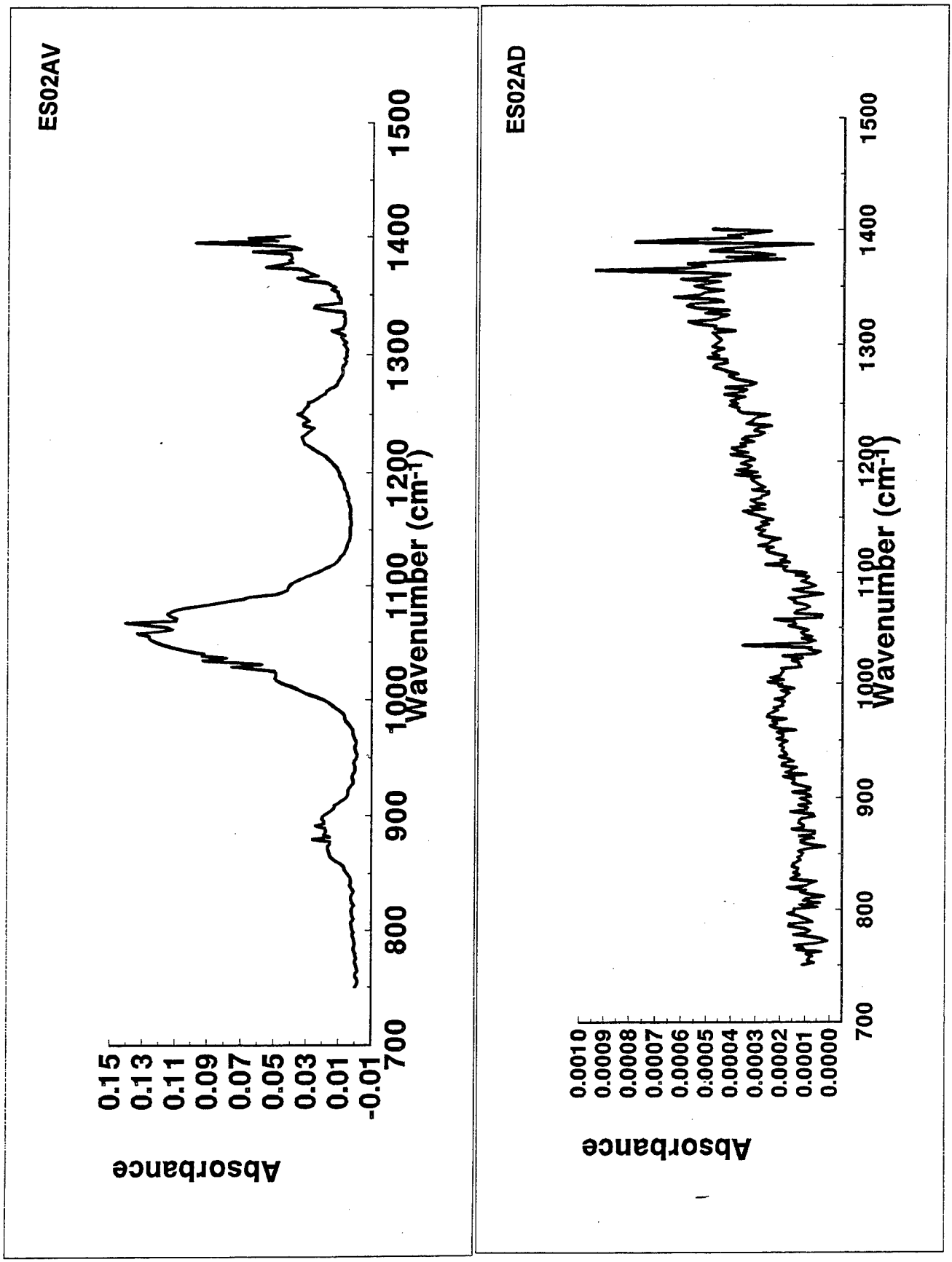
WN (cm-1)	AVE (A.U.)	AD (A.U.)
1097.83	0.0941727	0.0010316
1099.76	0.0919435	0.001075
1101.69	0.0889623	0.0010359
1103.62	0.0847678	0.0009462
1105.55	0.0785671	0.0008742
1107.48	0.0714724	0.000875
1109.41	0.0639457	0.0007907
1111.33	0.0562483	0.0006331
1113.26	0.0487476	0.0006293
1115.19	0.0435465	0.0005389
1117.12	0.0360716	0.0004949
1119.05	0.0312686	0.0004105
1120.98	0.0274088	0.0004029
1122.91	0.0245398	0.0003455
1124.84	0.0223244	0.0002551
1126.77	0.0202816	0.0002724
1128.7	0.0180835	0.0003018
1130.63	0.0164803	0.0002544
1132.56	0.0147166	0.0002887
1134.49	0.0137892	0.000283
1136.42	0.0126283	0.0002515
1138.34	0.0114305	0.0002797
1140.27	0.0098788	0.0002506
1142.2	0.0092756	0.0002732
1144.13	0.0084559	0.0002645
1146.06	0.0076986	0.000267
1147.99	0.0073541	0.0002357
1149.92	0.007476	0.0002252
1151.85	0.007572	0.0002406
1153.78	0.0069722	0.0002648
1155.71	0.0067046	0.0002828
1157.64	0.0065562	0.000251
1159.57	0.0068855	0.0002558
1161.5	0.0070701	0.0002861
1163.43	0.0070907	0.0002804
1165.36	0.0074174	0.0002725
1167.28	0.0071273	0.00028
1169.21	0.0070875	0.0002693
1171.14	0.0074182	0.0002789
1173.07	0.008536	0.0003044
1175	0.0090128	0.0003241
1176.93	0.0089277	0.0003048
1178.86	0.0095801	0.0002785
1180.79	0.0103948	0.0002941
1182.72	0.0110086	0.0002658

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1184.65	0.0123486	0.0002688
1186.58	0.0133266	0.0002772
1188.51	0.0137018	0.000306
1190.44	0.0144201	0.0003329
1192.37	0.0154525	0.0003154
1194.3	0.0169316	0.0002812
1196.22	0.0179258	0.0003556
1198.15	0.0195711	0.0003061
1200.08	0.0199229	0.0003539
1202.01	0.0212764	0.000324
1203.94	0.022898	0.0003254
1205.87	0.0251574	0.0003368
1207.8	0.0280607	0.0003387
1209.73	0.0304089	0.0003361
1211.66	0.0336037	0.0004017
1213.59	0.0371219	0.0004348
1215.52	0.0415635	0.0004486
1217.45	0.0468515	0.0005314
1219.38	0.0519405	0.0006008
1221.31	0.0569674	0.0006215
1223.24	0.061521	0.0006916
1225.16	0.0660022	0.0007394
1227.09	0.0684942	0.0007311
1229.02	0.0703471	0.0007834
1230.95	0.0711415	0.0008358
1232.88	0.0675824	0.0007084
1234.81	0.0629379	0.0007193
1236.74	0.0587231	0.0005815
1238.67	0.055111	0.0006394
1240.6	0.0677136	0.0009892
1242.53	0.0703946	0.000687
1244.46	0.0613105	0.0005856
1246.39	0.0657421	0.0008257
1248.32	0.0693655	0.0007673
1250.25	0.0781523	0.0009442
1252.17	0.0712362	0.0008632
1254.1	0.0697604	0.0008142
1256.03	0.0670402	0.0007244
1257.96	0.0639257	0.0007652
1259.89	0.0624262	0.0007481
1261.82	0.0565088	0.0006381
1263.75	0.0515289	0.0005456
1265.68	0.0468708	0.0005166
1267.61	0.0413306	0.0004143
1269.54	0.0373173	0.0004132

Ethanol 5.08 Mole % 10.5 Torr ES05AV
ES05AD

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1271.47	0.0337153	0.0003711
1273.4	0.028857	0.0003153
1275.33	0.0257589	0.0004172
1277.26	0.0241229	0.0004142
1279.19	0.0220656	0.0003557
1281.11	0.0206195	0.0003388
1283.04	0.0185514	0.0004044
1284.97	0.017442	0.0003883
1286.9	0.0167725	0.0003836
1288.83	0.0170175	0.0003841
1290.76	0.0156893	0.0003613
1292.69	0.0139821	0.0003579
1294.62	0.0134023	0.0003648
1296.55	0.0139693	0.000338
1298.48	0.0127332	0.0003991
1300.41	0.0124596	0.0003473
1302.34	0.012286	0.0003672
1304.27	0.0125663	0.0003249
1306.2	0.012925	0.000354
1308.13	0.0139342	0.0004094
1310.05	0.0128006	0.0003102
1311.98	0.0142968	0.0003023
1313.91	0.0157856	0.000417
1315.84	0.0137187	0.0004087
1317.77	0.0167783	0.0003479
1319.7	0.0210374	0.0002603
1321.63	0.0154321	0.0002952
1323.56	0.0149021	0.0003144
1325.49	0.0142145	0.0003603
1327.42	0.0137784	0.000367
1329.35	0.0135527	0.0003452
1331.28	0.01441	0.0004305
1333.21	0.0146066	0.0004364
1335.14	0.0148875	0.0004842
1337.06	0.0259913	0.0005807
1338.99	0.0327641	0.0006035
1340.92	0.0322629	0.0006052
1342.85	0.0176697	0.0003056
1344.78	0.0182654	0.0002979
1346.71	0.018945	0.0003748
1348.64	0.0206562	0.0003828
1350.57	0.0216452	0.0003984
1352.5	0.0230693	0.0003901
1354.43	0.0270979	0.0003781
1356.36	0.0265383	0.0004885

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1358.29	0.0305502	0.0004797
1360.22	0.0327706	0.0007575
1362.15	0.0470593	0.0005843
1364.08	0.057613	0.0007412
1366	0.0456733	0.0005259
1367.93	0.0519812	0.0006015
1369.86	0.0588683	0.0006859
1371.79	0.0633884	0.0009888
1373.72	0.0880595	0.0009503
1375.65	0.0855852	0.0005993
1377.58	0.0794784	0.0009424
1379.51	0.0846052	0.0009022
1381.44	0.0852175	0.0009401
1383.37	0.0859882	0.0008599
1385.3	0.0835136	0.0010602
1387.23	0.101825	0.0013653
1389.16	0.0736429	0.0009084
1391.09	0.0800112	0.0010052
1393.02	0.105634	0.0015142
1394.94	0.159762	0.0006782
1396.87	0.0869738	0.0008532
1398.8	0.103343	0.0014548
1400.73	0.0859725	0.0008852


ES02AV
Absorbance
0.15
0.13
0.11
0.09
0.07
0.05
0.03
0.01
-0.01
700
800
900
1000
1100
1200
1300
1400
1500
Wavenumber (cm-1)
ES02AD
Absorbance
0.0010
0.0009
0.0008
0.0007
0.0006
0.0005
0.0004
0.0003
0.0002
0.0001
0.0000
700
800
900
1000
1100
1200
1300
1400
1500
Wavenumber (cm-1)

Ethanol 2.02 Mole % 5.1 Torr ES02AV
ES02AD

WN (cm-1)	AVE (A.U.)	AD (A.U.)	WN (cm-1)	AVE (A.U.)	AD (A.U.)
750.547	-0.0005968	0.000109	837.369	0.0021288	0.000128
752.476	-0.0015821	0.0000639	839.298	0.002816	0.0001483
754.405	-0.001978	0.0000873	841.228	0.0025951	0.0001464
756.335	-0.0017685	0.0000846	843.157	0.0024656	0.0001321
758.264	-0.0007662	0.0000699	845.086	0.0025075	0.0001186
760.194	-0.0004543	0.0000921	847.016	0.0029928	0.0001268
762.123	-0.0008705	0.0000341	848.945	0.0040938	0.0001146
764.052	-0.0018432	0.0001296	850.874	0.0053522	0.0001092
765.982	-0.0014721	0.0001059	852.804	0.0063145	0.0001237
767.911	-0.0009126	0.0001393	854.733	0.0066326	0.000093
769.84	-0.0008244	0.000058	856.663	0.0072119	0.0000201
771.77	-0.0001669	9.61E-06	858.592	0.008966	0.0000775
773.699	-0.0006384	0.0000266	860.521	0.0113934	0.0001155
775.629	-0.0010011	0.0000713	862.451	0.013293	0.0001152
777.558	-0.0005166	0.0001422	864.38	0.0148226	0.0000655
779.487	-0.0004037	0.000089	866.31	0.0155014	0.0001213
781.417	0.0003459	0.0000793	868.239	0.0157873	0.0000615
783.346	0.000536	0.0000991	870.168	0.0162695	0.0000606
785.275	0.0004989	0.000162	872.098	0.0166908	0.00015
787.205	-0.0001335	0.0001591	874.027	0.0165582	0.0001051
789.134	0.0000398	0.0000695	875.956	0.0153141	0.0001071
791.064	0.0003693	0.0000845	877.886	0.0153538	0.0001246
792.993	0.0006806	0.0001102	879.815	0.0257495	0.0001227
794.922	0.0013046	0.0001275	881.745	0.0158039	0.0001125
796.852	0.0010308	0.0001654	883.674	0.0191293	0.0000626
798.781	0.0008903	0.0001432	885.603	0.0178707	0.0000677
800.711	0.0016173	0.0001417	887.533	0.0179599	0.0001556
802.64	0.0015055	0.0000498	889.462	0.0182856	0.0000938
804.569	0.0019339	0.0001181	891.392	0.0238153	0.000089
806.499	0.002046	0.0000404	893.321	0.0188369	0.0001247
808.428	0.0012723	0.0001037	895.25	0.0190839	0.0000783
810.357	0.0008939	0.0000949	897.18	0.0200904	0.0000895
812.287	0.0013417	0.000023	899.109	0.01993	0.0001164
814.216	0.0017229	0.0000811	901.038	0.018296	0.0000766
816.146	0.0019861	0.0001169	902.968	0.0161791	0.000085
818.075	0.0018955	0.0000962	904.897	0.0143537	0.0001481
820.004	0.0014337	0.0001675	906.827	0.0128676	0.0000821
821.934	0.0006892	0.0000947	908.756	0.0123466	0.0000794
823.863	0.0013772	0.0000819	910.685	0.0105413	0.0001219
825.792	0.0017259	0.0000543	912.615	0.0085631	0.0001487
827.722	0.0023964	0.0001562	914.544	0.0064502	0.0001466
829.651	0.002221	0.0001435	916.473	0.0049487	0.0001432
831.581	0.0016674	0.0001219	918.403	0.0043301	0.0001858
833.51	0.0008489	0.0001426	920.332	0.0044339	0.0000956
835.439	0.0009834	0.0001307	922.262	0.0041081	0.000178

Ethanol 2.02 Mole % 5.1 Torr ES02AV
ES02AD

WN (cm-1)	AVE (A.U.)	AD (A.U.)
924.191	0.003188	0.0001572
926.12	0.0020484	0.0001351
928.05	0.0011136	0.0001931
929.979	0.0010235	0.0001902
931.909	0.0014252	0.0001483
933.838	0.0016603	0.0001653
935.767	0.001215	0.0002021
937.697	0.0001709	0.0001747
939.626	-0.0002627	0.0001849
941.555	-0.0003023	0.0001938
943.485	0.0001185	0.0001869
945.414	0.0004288	0.0002016
947.344	0.0002172	0.0001945
949.273	-0.0006069	0.0001754
951.202	-0.0014312	0.0002132
953.132	-0.0012929	0.0001897
955.061	-0.0006469	0.0001893
956.991	-0.0002067	0.0002117
958.92	-0.000063	0.0001404
960.849	-0.0003082	0.0002169
962.779	-0.0007319	0.0002405
964.708	-0.000579	0.000215
966.637	0.0001038	0.0002323
968.567	0.0007161	0.0001783
970.496	0.0011775	0.0002536
972.426	0.0012422	0.0002505
974.355	0.0013938	0.0002344
976.284	0.0024252	0.0002106
978.214	0.0034668	0.0002263
980.143	0.0047288	0.0001909
982.072	0.0059274	0.0001936
984.002	0.0063152	0.0001844
985.931	0.0064549	0.0002216
987.861	0.0072825	0.0001857
989.79	0.0087205	0.0001764
991.719	0.0108075	0.0001657
993.649	0.0125451	0.0001949
995.578	0.014483	0.000148
997.508	0.0161639	0.0002068
999.437	0.0189043	0.000196
1001.36	0.0219081	0.0002507
1003.29	0.0259823	0.0001896
1005.22	0.0300065	0.0002393
1007.15	0.0329751	0.0002014
1009.08	0.0356956	0.0001966

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1011.01	0.0390431	0.0001889
1012.94	0.0428432	0.0001954
1014.87	0.0464448	0.0001171
1016.8	0.0486519	0.0001275
1018.73	0.0495906	0.0001259
1020.66	0.0491538	0.0001518
1022.59	0.049063	0.0001112
1024.51	0.0498949	0.0001895
1026.44	0.0604662	0.0000618
1028.37	0.0752497	0.0000409
1030.3	0.0577982	0.0000841
1032.23	0.0741687	0.0000764
1034.16	0.0929834	0.0003513
1036.09	0.0790509	0.0000941
1038.02	0.0935148	0.0000618
1039.95	0.0924864	0.0001131
1041.88	0.100872	0.0000749
1043.81	0.107403	0.0001065
1045.74	0.112821	0.0001164
1047.67	0.11807	0.0000905
1049.6	0.121547	0.0001246
1051.53	0.124559	0.0001663
1053.45	0.126504	0.0001395
1055.38	0.126303	0.0001446
1057.31	0.133223	0.0002258
1059.24	0.120645	0.0000361
1061.17	0.111953	0.0000336
1063.1	0.114564	0.0001433
1065.03	0.126212	0.0001344
1066.96	0.140701	0.0000996
1068.89	0.109718	0.000084
1070.82	0.109344	0.0001002
1072.75	0.112804	0.0001442
1074.68	0.114866	0.0001423
1076.61	0.113202	0.0001643
1078.54	0.109204	0.0000937
1080.47	0.102028	0.0000318
1082.39	0.0933774	0.0001099
1084.32	0.0851288	0.0001484
1086.25	0.0769476	0.0000879
1088.18	0.0686326	0.0000607
1090.11	0.0649891	0.0000806
1092.04	0.0487898	0.0001152
1093.97	0.0451136	0.0000971
1095.9	0.042018	0.0000879

Ethanol 2.02 Mole % 5.1 Torr ES02AV
ES02AD

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1097.83	0.0416473	0.0001388
1099.76	0.0406953	0.0000994
1101.69	0.0394952	0.000181
1103.62	0.0373422	0.0001893
1105.55	0.0341968	0.0001764
1107.48	0.0310887	0.0002611
1109.41	0.027645	0.0001671
1111.33	0.0244385	0.0002005
1113.26	0.0213077	0.0001816
1115.19	0.0189235	0.0001793
1117.12	0.0155174	0.0002175
1119.05	0.0131815	0.000252
1120.98	0.01145	0.0002596
1122.91	0.0103249	0.0002343
1124.84	0.0095899	0.0002908
1126.77	0.0085703	0.000251
1128.7	0.0073724	0.0002415
1130.63	0.0067845	0.0002048
1132.56	0.0057687	0.000258
1134.49	0.0056984	0.0002904
1136.42	0.0053116	0.0002814
1138.34	0.0047845	0.0002674
1140.27	0.0037354	0.0003022
1142.2	0.0037363	0.000282
1144.13	0.0034782	0.0002534
1146.06	0.0031723	0.000279
1147.99	0.0031909	0.0002348
1149.92	0.003275	0.0002726
1151.85	0.0033337	0.0002901
1153.78	0.0027446	0.0003296
1155.71	0.0026734	0.0003509
1157.64	0.0026292	0.0002687
1159.57	0.0032108	0.0003234
1161.5	0.0032192	0.0002689
1163.43	0.0032845	0.0003071
1165.36	0.0033205	0.0003211
1167.28	0.0031338	0.0002842
1169.21	0.0031768	0.000279
1171.14	0.0035426	0.0002515
1173.07	0.0040196	0.0002518
1175	0.0046342	0.0003164
1176.93	0.004398	0.0002689
1178.86	0.0045274	0.0002856
1180.79	0.0051741	0.0002996
1182.72	0.0054893	0.0003149

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1184.65	0.0062137	0.0003228
1186.58	0.0070907	0.0002881
1188.51	0.0070233	0.0003833
1190.44	0.0072671	0.0002984
1192.37	0.0078643	0.0003769
1194.3	0.0086025	0.000331
1196.22	0.009238	0.0003241
1198.15	0.0102031	0.000359
1200.08	0.0102514	0.0003455
1202.01	0.0108751	0.0003118
1203.94	0.0113728	0.0003327
1205.87	0.0125942	0.0004025
1207.8	0.0141074	0.0003371
1209.73	0.0152447	0.000381
1211.66	0.0166903	0.0003991
1213.59	0.0180568	0.0003466
1215.52	0.0201592	0.0003641
1217.45	0.022497	0.0003134
1219.38	0.0248502	0.0003574
1221.31	0.0269968	0.0003464
1223.24	0.0291154	0.0002835
1225.16	0.0315952	0.0002714
1227.09	0.0320376	0.0003088
1229.02	0.0327639	0.0003009
1230.95	0.0331935	0.0002426
1232.88	0.03145	0.0003395
1234.81	0.0293378	0.0003202
1236.74	0.0274668	0.0003139
1238.67	0.0259826	0.000299
1240.6	0.032133	0.000251
1242.53	0.0322675	0.0003605
1244.46	0.0289577	0.0003752
1246.39	0.0303974	0.000374
1248.32	0.0321167	0.0004057
1250.25	0.0356697	0.0003801
1252.17	0.0326859	0.0004038
1254.1	0.031974	0.0003803
1256.03	0.0306715	0.000351
1257.96	0.0293125	0.000429
1259.89	0.0294968	0.0003563
1261.82	0.0259452	0.0003429
1263.75	0.0236343	0.0004259
1265.68	0.0216955	0.0003251
1267.61	0.0191465	0.0003054
1269.54	0.0182426	0.0003495

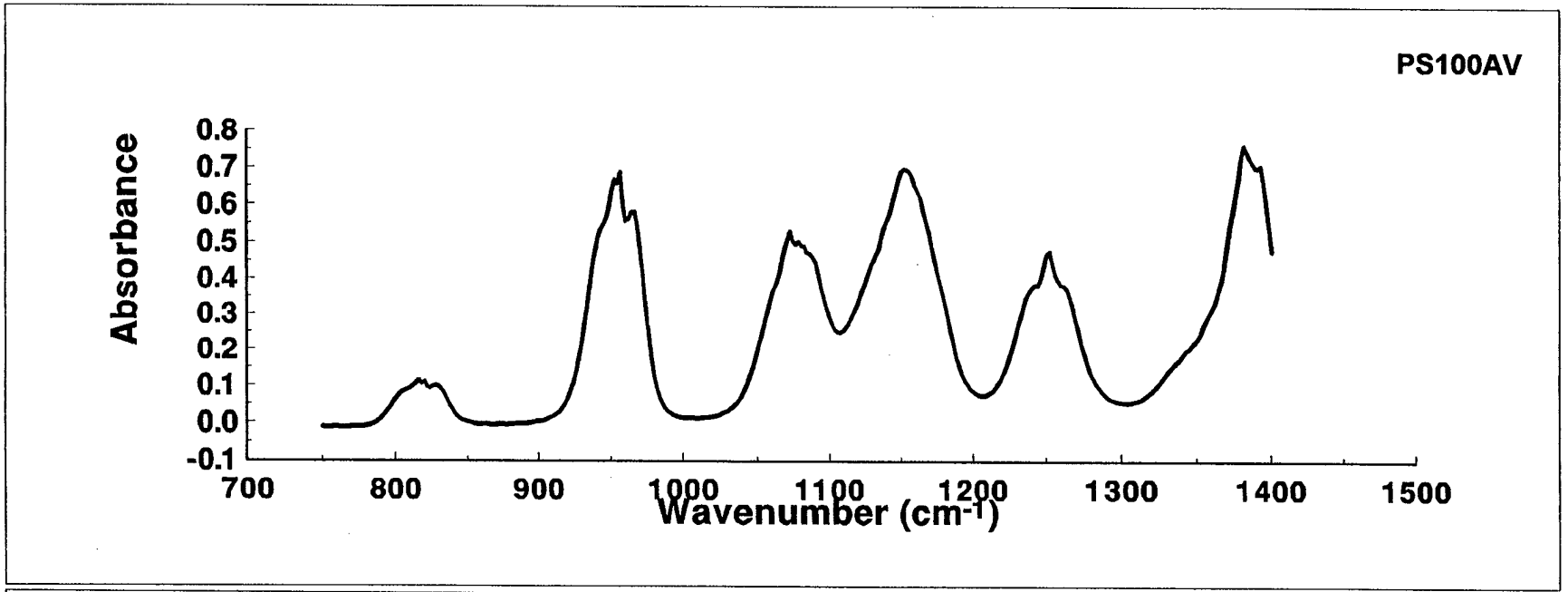
Ethanol 2.02 Mole % 5.1 Torr ES02AV
ES02AD

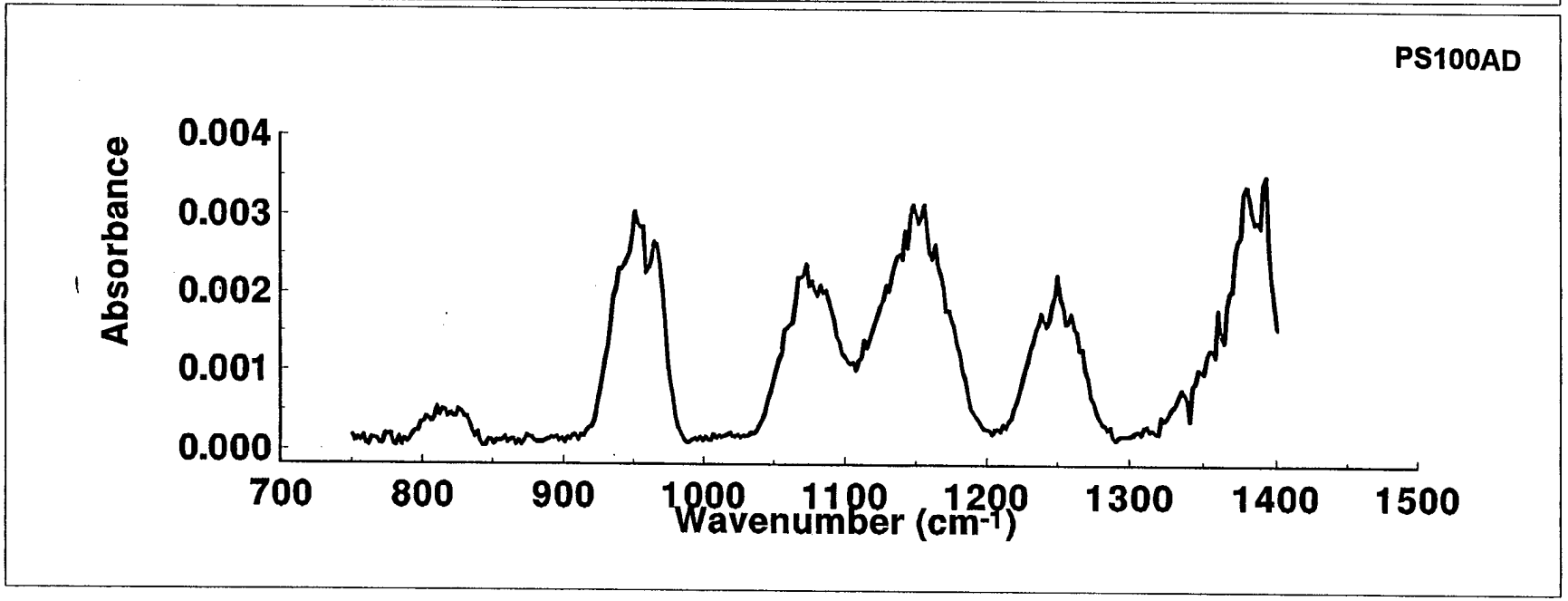
WN (cm-1)	AVE (A.U.)	AD (A.U.)
1271.47	0.0165468	0.0003893
1273.4	0.0131136	0.0004107
1275.33	0.0118152	0.0003784
1277.26	0.0111968	0.0004176
1279.19	0.0103276	0.0004402
1281.11	0.0095578	0.0004746
1283.04	0.0087382	0.000467
1284.97	0.0082805	0.0004191
1286.9	0.0081345	0.0004222
1288.83	0.0085951	0.0004975
1290.76	0.0077577	0.0004556
1292.69	0.0066043	0.000478
1294.62	0.0061945	0.000462
1296.55	0.007003	0.0004363
1298.48	0.00583	0.0004763
1300.41	0.0059646	0.0004653
1302.34	0.0058259	0.0004515
1304.27	0.0057094	0.0004456
1306.2	0.0063694	0.0004568
1308.13	0.0074498	0.0004662
1310.05	0.0060232	0.0004764
1311.98	0.0079073	0.0003911
1313.91	0.0089101	0.0004714
1315.84	0.0072149	0.0004669
1317.77	0.0105946	0.0005388
1319.7	0.0145562	0.0005777
1321.63	0.0084323	0.0004661
1323.56	0.007838	0.0004471
1325.49	0.0070983	0.000418
1327.42	0.0068975	0.0005092
1329.35	0.006915	0.0004143
1331.28	0.0074864	0.0005389
1333.21	0.0071766	0.000582
1335.14	0.0077072	0.0005698
1337.06	0.0184598	0.0004391
1338.99	0.0257273	0.0004685
1340.92	0.0243881	0.0006314
1342.85	0.0096248	0.0005272
1344.78	0.0098955	0.0005143
1346.71	0.0099148	0.000441
1348.64	0.0113033	0.0005063
1350.57	0.0111437	0.0005523
1352.5	0.0117001	0.0005132
1354.43	0.0149877	0.0004513
1356.36	0.0129184	0.0006044

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1358.29	0.0160089	0.0004761
1360.22	0.017515	0.0004119
1362.15	0.0299486	0.00053
1364.08	0.0360605	0.0009376
1366	0.0240208	0.0005872
1367.93	0.0280524	0.000513
1369.86	0.0305892	0.0005804
1371.79	0.0331733	0.0004268
1373.72	0.0555306	0.0001914
1375.65	0.0470027	0.0004217
1377.58	0.0396156	0.0002321
1379.51	0.0412623	0.0002992
1381.44	0.0398792	0.0004907
1383.37	0.0404123	0.0004289
1385.3	0.0407613	0.000268
1387.23	0.0633041	0.0000782
1389.16	0.0344811	0.0007816
1391.09	0.0390979	0.0006167
1393.02	0.0524442	0.0003635
1394.94	0.0976086	0.0004186
1396.87	0.0487579	0.0003341
1398.8	0.0661636	0.0002485
1400.73	0.0417347	0.0004788

APPENDIX E

ISO-PROPANOL ABSORBANCE SPECTRA


PS100AV
Absorbance
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
-0.1
700
800
900
1000
1100
1200
1300
1400
1500
Wavenumber (cm-1)


PS100AD
Absorbance
0.004
0.003
0.002
0.001
0.000
700
800
900
1000
1100
1200
1300
1400
1500
Wavenumber (cm-1)

Isopropanol 100.0 Mole % 36.2 Torr PS100AV
PS100AD

WN (cm-1)	AVE (A.U.)	AD (A.U.)	WN (cm-1)	AVE (A.U.)	AD (A.U.)
750.547	-0.0112155	0.0001787	837.369	0.0494604	0.0001661
752.476	-0.0116221	0.0001106	839.298	0.0362404	0.0002213
754.405	-0.0125288	0.0001458	841.228	0.025438	0.0000944
756.335	-0.0115563	0.0001135	843.157	0.0163515	0.0000512
758.264	-0.0110738	0.0001723	845.086	0.0097923	0.00006
760.194	-0.0107966	0.0000762	847.016	0.0052581	0.0001252
762.123	-0.0115675	0.0000649	848.945	0.0031595	0.0001204
764.052	-0.0122766	0.0001508	850.874	0.0013585	0.0000753
765.982	-0.0120464	0.0001397	852.804	-0.0007633	0.0001186
767.911	-0.0117979	0.0001342	854.733	-0.0028949	0.0001137
769.84	-0.0112324	0.0000831	856.663	-0.0044051	0.0001184
771.77	-0.0109434	0.0000805	858.592	-0.0049389	0.0001589
773.699	-0.0113963	0.0001945	860.521	-0.0046202	0.0000957
775.629	-0.0112517	0.0001939	862.451	-0.0042533	0.0001269
777.558	-0.0107633	0.0001965	864.38	-0.0047056	0.0001289
779.487	-0.0091099	0.000074	866.31	-0.0055494	0.0000733
781.417	-0.0075536	0.0000583	868.239	-0.0059579	0.0001115
783.346	-0.0055973	0.0001518	870.168	-0.005789	0.0000717
785.275	-0.0024625	0.0000625	872.098	-0.0047882	0.0001105
787.205	0.0015052	0.0001336	874.027	-0.0047267	0.0001812
789.134	0.0066377	0.0001031	875.956	-0.0046691	0.0001654
791.064	0.0145807	0.0001285	877.886	-0.0053705	0.0001503
792.993	0.0235999	0.0001975	879.815	-0.0050118	0.0001087
794.922	0.0339118	0.000236	881.745	-0.0052109	0.0000991
796.852	0.0440316	0.0002389	883.674	-0.0039567	0.0001001
798.781	0.0547219	0.0003374	885.603	-0.0031502	0.0001019
800.711	0.0659824	0.0003535	887.533	-0.0027272	0.0001179
802.64	0.0746192	0.000415	889.462	-0.0030419	0.0001346
804.569	0.0811376	0.0003921	891.392	-0.0027248	0.0001541
806.499	0.0847625	0.0003621	893.321	-0.001909	0.0001495
808.428	0.0879436	0.0003948	895.25	-0.0003363	0.0001615
810.357	0.0928161	0.0005338	897.18	0.0016503	0.0001216
812.287	0.0988127	0.0004376	899.109	0.0030058	0.0001401
814.216	0.103718	0.0005028	901.038	0.0036386	0.0001019
816.146	0.111559	0.000501	902.968	0.0046875	0.0001521
818.075	0.103758	0.0004257	904.897	0.007064	0.0001346
820.004	0.108282	0.0004545	906.827	0.0102597	0.0001803
821.934	0.0958763	0.0004288	908.756	0.0142589	0.0001851
823.863	0.0924855	0.0004316	910.685	0.0184112	0.0001241
825.792	0.0956087	0.0005047	912.615	0.0225721	0.0001904
827.722	0.0981119	0.0004767	914.544	0.0285591	0.0001776
829.651	0.0963586	0.0004279	916.473	0.0371242	0.000245
831.581	0.08889	0.0004141	918.403	0.0494	0.0002901
833.51	0.0775361	0.000339	920.332	0.0643273	0.0002996
835.439	0.0632244	0.0002437	922.262	0.0817545	0.0003911

Isopropanol 100.0 Mole % 36.2 Torr PS100AV
PS100AD

WN (cm-1)	AVE (A.U.)	AD (A.U.)
924.191	0.103828	0.0005732
926.12	0.132036	0.0007357
928.05	0.167545	0.000957
929.979	0.212025	0.001157
931.909	0.261743	0.0012944
933.838	0.317549	0.0015937
935.767	0.374897	0.0019541
937.697	0.431169	0.0020596
939.626	0.476469	0.0023114
941.555	0.511469	0.0023005
943.485	0.53382	0.0023533
945.414	0.546777	0.0024404
947.344	0.56168	0.0025155
949.273	0.593961	0.0027444
951.202	0.637391	0.0030294
953.132	0.666431	0.0028927
955.061	0.65737	0.002845
956.991	0.685226	0.0028423
958.92	0.598326	0.0022596
960.849	0.557101	0.0023158
962.779	0.560803	0.0024089
964.708	0.578636	0.002649
966.637	0.580709	0.0026211
968.567	0.550016	0.0023959
970.496	0.491946	0.0020682
972.426	0.411874	0.0015906
974.355	0.32673	0.0010881
976.284	0.248666	0.0008425
978.214	0.183565	0.00065
980.143	0.133253	0.0004114
982.072	0.0958612	0.0002725
984.002	0.0690871	0.0002112
985.931	0.0504983	0.0001348
987.861	0.0382291	0.0001019
989.79	0.0303942	0.0001013
991.719	0.0249701	0.0001278
993.649	0.0207539	0.0001419
995.578	0.0172273	0.0001314
997.508	0.0147439	0.0001578
999.437	0.0131716	0.000121
1001.36	0.0128121	0.0001622
1003.29	0.0128093	0.0001317
1005.22	0.0129299	0.0001244
1007.15	0.0126497	0.0001984
1009.08	0.0122035	0.0001537

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1011.01	0.0120733	0.0001821
1012.94	0.012522	0.0001669
1014.87	0.0132158	0.0001816
1016.8	0.0141572	0.0001913
1018.73	0.0151473	0.000215
1020.66	0.0162775	0.0001773
1022.59	0.0177006	0.0001712
1024.51	0.0197147	0.0001866
1026.44	0.0238203	0.0001682
1028.37	0.0278891	0.0001822
1030.3	0.0302867	0.0001783
1032.23	0.0364857	0.0001875
1034.16	0.0435243	0.0002218
1036.09	0.0495581	0.0002172
1038.02	0.0604773	0.0002487
1039.95	0.0722897	0.0003209
1041.88	0.087205	0.0003901
1043.81	0.10548	0.0004649
1045.74	0.129048	0.0006321
1047.67	0.154424	0.0007279
1049.6	0.182382	0.0008584
1051.53	0.213556	0.0009939
1053.45	0.245123	0.0011276
1055.38	0.275969	0.0012129
1057.31	0.310299	0.0015157
1059.24	0.339536	0.0015452
1061.17	0.365931	0.0015847
1063.1	0.383276	0.0016144
1065.03	0.408851	0.0018814
1066.96	0.446236	0.0021956
1068.89	0.481587	0.0021988
1070.82	0.502861	0.0022211
1072.75	0.527238	0.0023638
1074.68	0.503224	0.0020891
1076.61	0.494792	0.0021498
1078.54	0.500602	0.002034
1080.47	0.491674	0.0019725
1082.39	0.489073	0.0020973
1084.32	0.472699	0.0020083
1086.25	0.469368	0.0020304
1088.18	0.46094	0.0019194
1090.11	0.446635	0.001767
1092.04	0.413238	0.0016466
1093.97	0.379981	0.0014317
1095.9	0.347075	0.0013588

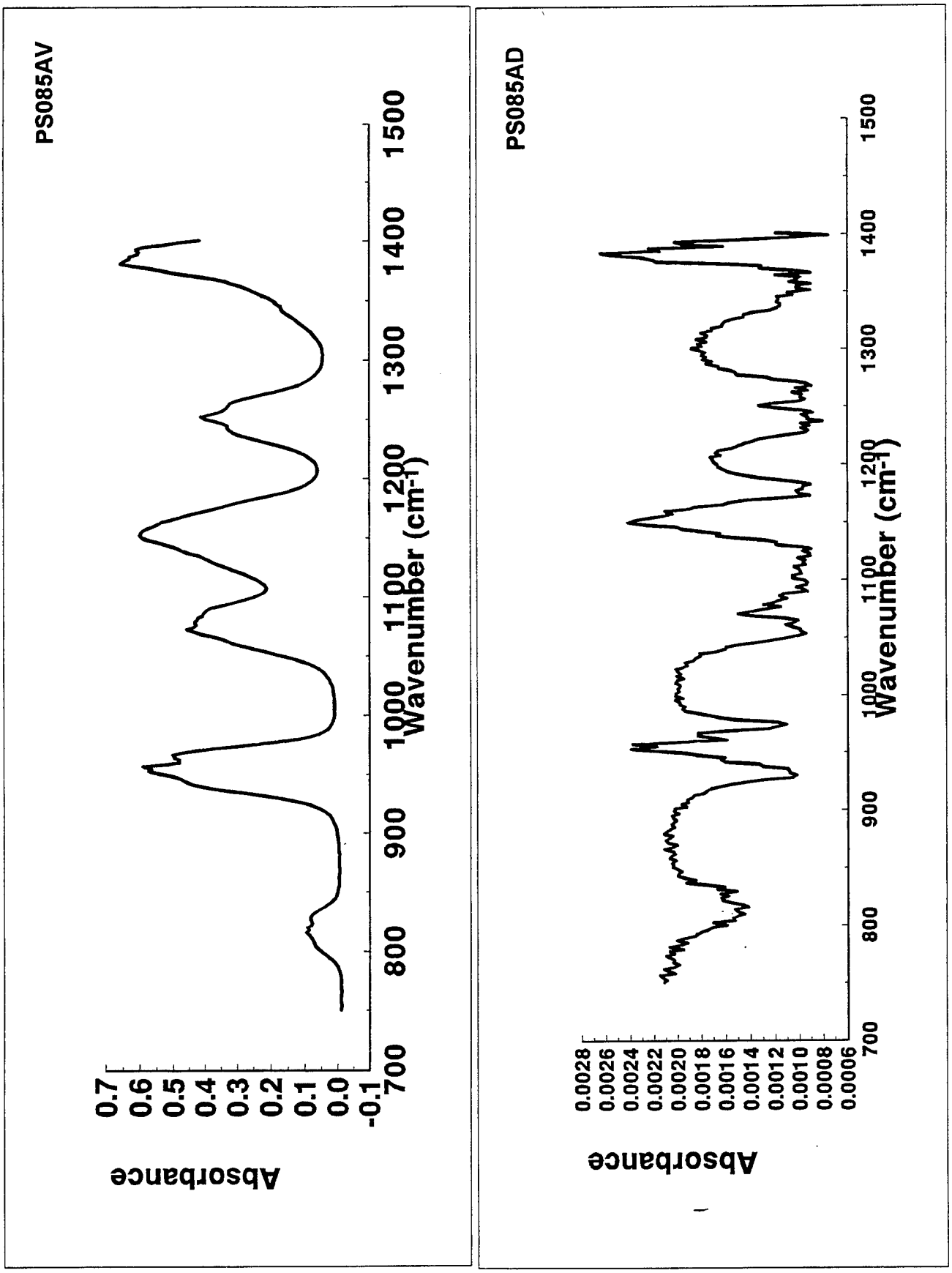
Isopropanol 100.0 Mole % 36.2 Torr PS100AV PS100AD

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1097.83	0.316583	0.0012126
1099.76	0.290656	0.0011771
1101.69	0.270529	0.0011124
1103.62	0.257084	0.0010907
1105.55	0.249467	0.0011033
1107.48	0.248634	0.0010185
1109.41	0.25321	0.0011337
1111.33	0.26192	0.0011705
1113.26	0.273868	0.0013883
1115.19	0.290574	0.0012948
1117.12	0.306396	0.0014074
1119.05	0.325479	0.0015138
1120.98	0.345588	0.0016315
1122.91	0.365757	0.0017267
1124.84	0.387907	0.0018435
1126.77	0.41109	0.0019248
1128.7	0.435867	0.0021078
1130.63	0.448657	0.0020294
1132.56	0.465982	0.0022072
1134.49	0.484422	0.0023479
1136.42	0.517474	0.0024688
1138.34	0.543478	0.0024992
1140.27	0.558932	0.0024352
1142.2	0.578775	0.0028036
1144.13	0.607303	0.0025874
1146.06	0.634927	0.0029977
1147.99	0.66678	0.0031319
1149.92	0.688458	0.0030203
1151.85	0.695511	0.0029082
1153.78	0.694892	0.0029929
1155.71	0.688341	0.0031324
1157.64	0.672986	0.0028042
1159.57	0.651535	0.0025075
1161.5	0.633563	0.0024425
1163.43	0.620021	0.0026256
1165.36	0.586014	0.0023495
1167.28	0.55484	0.0022511
1169.21	0.530213	0.0020947
1171.14	0.487865	0.0017696
1173.07	0.454828	0.001774
1175	0.420827	0.0016488
1176.93	0.390902	0.0015703
1178.86	0.359391	0.0013361
1180.79	0.324072	0.0012299
1182.72	0.285718	0.0009967

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1184.65	0.248822	0.0009062
1186.58	0.212622	0.0007247
1188.51	0.180055	0.0005374
1190.44	0.153257	0.0004888
1192.37	0.131867	0.0004273
1194.3	0.115064	0.0003825
1196.22	0.102039	0.000333
1198.15	0.0913412	0.0002846
1200.08	0.0837978	0.0002758
1202.01	0.0786197	0.0002628
1203.94	0.0749212	0.0002146
1205.87	0.0731252	0.0002756
1207.8	0.0731993	0.0002772
1209.73	0.0751504	0.0002548
1211.66	0.0790044	0.0003319
1213.59	0.0844023	0.0002965
1215.52	0.0938607	0.0003701
1217.45	0.103421	0.0004181
1219.38	0.116985	0.0005382
1221.31	0.133235	0.0006109
1223.24	0.152971	0.0007277
1225.16	0.175993	0.0008571
1227.09	0.203137	0.0010031
1229.02	0.232253	0.001119
1230.95	0.262625	0.0012733
1232.88	0.291883	0.0013596
1234.81	0.319981	0.0015324
1236.74	0.345486	0.001596
1238.67	0.363589	0.0017425
1240.6	0.373682	0.0016435
1242.53	0.382343	0.0015771
1244.46	0.382292	0.0016715
1246.39	0.397779	0.0018639
1248.32	0.432101	0.0019625
1250.25	0.462477	0.0022289
1252.17	0.474584	0.0019468
1254.1	0.445941	0.0018358
1256.03	0.413618	0.0016075
1257.96	0.394102	0.0016314
1259.89	0.384655	0.0017332
1261.82	0.379657	0.0015509
1263.75	0.372759	0.0015046
1265.68	0.348191	0.001265
1267.61	0.321049	0.0012739
1269.54	0.287221	0.0010238

Isopropanol 100.0 Mole % 36.2 Torr PS100AV
PS100AD

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1271.47	0.252068	0.0008968
1273.4	0.216671	0.0006974
1275.33	0.18744	0.0006153
1277.26	0.160449	0.0004983
1279.19	0.137627	0.0004191
1281.11	0.119965	0.0003466
1283.04	0.105719	0.0003282
1284.97	0.0941476	0.0002801
1286.9	0.0842282	0.0003043
1288.83	0.0760387	0.0001743
1290.76	0.0689228	0.0001412
1292.69	0.0631391	0.0001784
1294.62	0.0598314	0.0001934
1296.55	0.0568842	0.0001905
1298.48	0.0560475	0.0001907
1300.41	0.0548072	0.0001956
1302.34	0.0542905	0.0002071
1304.27	0.0539652	0.0002409
1306.2	0.0543579	0.0002511
1308.13	0.0558367	0.0002162
1310.05	0.0581215	0.0002953
1311.98	0.0608428	0.0003128
1313.91	0.0649128	0.0002547
1315.84	0.0700969	0.0002629
1317.77	0.0754423	0.0002331
1319.7	0.0817614	0.0002196
1321.63	0.0903823	0.0004269
1323.56	0.0978809	0.000389
1325.49	0.107337	0.000431
1327.42	0.118018	0.0005004
1329.35	0.129369	0.0005501
1331.28	0.140233	0.0005809
1333.21	0.149426	0.0006625
1335.14	0.157402	0.0007698
1337.06	0.166006	0.0007205
1338.99	0.172611	0.0006619
1340.92	0.18489	0.0003868
1342.85	0.197254	0.0008214
1344.78	0.200772	0.0008629
1346.71	0.212884	0.0010229
1348.64	0.219482	0.0010021
1350.57	0.23028	0.0009773
1352.5	0.245441	0.0011987
1354.43	0.265284	0.001264
1356.36	0.284492	0.0012685
1358.29	0.299168	0.001191
1360.22	0.313769	0.0017799
1362.15	0.333407	0.0014297
1364.08	0.359493	0.0013716
1366	0.389291	0.0018265
1367.93	0.42695	0.0020154
1369.86	0.476311	0.0020484
1371.79	0.535333	0.0025549
1373.72	0.575967	0.0026881
1375.65	0.620945	0.0027408
1377.58	0.667733	0.0033015
1379.51	0.720333	0.0033731
1381.44	0.759968	0.0032297
1383.37	0.74643	0.0030169
1385.3	0.726917	0.0029046
1387.23	0.71353	0.0029272
1389.16	0.700765	0.0028567
1391.09	0.699612	0.0033968
1393.02	0.704088	0.0034989
1394.94	0.657187	0.002595
1396.87	0.603309	0.0021538
1398.8	0.53621	0.0018239
1400.73	0.475419	0.0015513


PS085AV
Absorbance
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
-0.1
700
800
900
1000
1100
1200
1300
1400
1500
Wavenumber (cm-1)
PS085AD
Absorbance
0.0028
0.0026
0.0024
0.0022
0.0020
0.0018
0.0016
0.0014
0.0012
0.0010
0.0008
0.0006
700
800
900
1000
1100
1200
1300
1400
Wavenumber (cm-1)

Isopropanol 84.96 Mole % 31.4 Torr PS085AV PS085AD

WN (cm-1)	AVE (A.U.)	AD (A.U.)
750.547	-0.012144	0.0021131
752.476	-0.012293	0.0020922
754.405	-0.013265	0.0021204
756.335	-0.0126	0.0021455
758.264	-0.012157	0.0020239
760.194	-0.01206	0.0020705
762.123	-0.012726	0.0021124
764.052	-0.013069	0.0020226
765.982	-0.013123	0.0019901
767.911	-0.012871	0.0020346
769.84	-0.012292	0.0020287
771.77	-0.011774	0.0020515
773.699	-0.012489	0.0020923
775.629	-0.012439	0.0020298
777.558	-0.011802	0.0020651
779.487	-0.010493	0.0019548
781.417	-0.009179	0.0020641
783.346	-0.007582	0.0019632
785.275	-0.004711	0.0019174
787.205	-0.001991	0.0020014
789.134	0.0027097	0.0019443
791.064	0.0090096	0.0018506
792.993	0.017019	0.0018317
794.922	0.0256698	0.0017878
796.852	0.0347697	0.0017417
798.781	0.0441715	0.0017107
800.711	0.0534852	0.0015947
802.64	0.0610751	0.0016989
804.569	0.0669035	0.0015315
806.499	0.0703431	0.0015384
808.428	0.0729571	0.0015067
810.357	0.0765867	0.0014539
812.287	0.0820083	0.0015036
814.216	0.0864845	0.0015245
816.146	0.0934835	0.0014233
818.075	0.0870583	0.0014638
820.004	0.0907004	0.0015582
821.934	0.079943	0.0016248
823.863	0.0771303	0.0016327
825.792	0.0798169	0.001582
827.722	0.0819287	0.0016416
829.651	0.0806318	0.0015158
831.581	0.0743752	0.001668
833.51	0.0645611	0.0016145
835.439	0.0523439	0.0017516

WN (cm-1)	AVE (A.U.)	AD (A.U.)
837.369	0.040691	0.0019237
839.298	0.029402	0.001848
841.228	0.019791	0.0019391
843.157	0.011912	0.0019948
845.086	0.00614	0.0019921
847.016	0.002257	0.001962
848.945	0.000296	0.0019995
850.874	-0.00116	0.002035
852.804	-0.00289	0.0020354
854.733	-0.00506	0.0020381
856.663	-0.00616	0.002016
858.592	-0.00664	0.0020612
860.521	-0.00631	0.002048
862.451	-0.00568	0.0020229
864.38	-0.00621	0.0020353
866.31	-0.0071	0.0021051
868.239	-0.00746	0.002035
870.168	-0.00734	0.002007
872.098	-0.00635	0.0020784
874.027	-0.00595	0.0020936
875.956	-0.00604	0.0020633
877.886	-0.00663	0.0020418
879.815	-0.00639	0.0021111
881.745	-0.00677	0.0020901
883.674	-0.00561	0.0020628
885.603	-0.0047	0.0020286
887.533	-0.00444	0.0020476
889.462	-0.00469	0.0020323
891.392	-0.00448	0.0020111
893.321	-0.00384	0.0020313
895.25	-0.00253	0.0020423
897.18	-0.00057	0.0019897
899.109	0.000418	0.002026
901.038	0.000886	0.0020209
902.968	0.001614	0.0019228
904.897	0.003635	0.0019613
906.827	0.006268	0.0019085
908.756	0.009951	0.0019173
910.685	0.013383	0.0018786
912.615	0.016913	0.0018554
914.544	0.021699	0.0017727
916.473	0.028763	0.001756
918.403	0.039026	0.0017232
920.332	0.052118	0.0016486
922.262	0.066541	0.001546

Isopropanol 84.96 Mole % 31.4 Torr PS085AV PS085AD

WN (cm-1)	AVE (A.U.)	AD (A.U.)
924.191	0.0852311	0.0014172
926.12	0.108945	0.0012755
928.05	0.138949	0.0010515
929.979	0.177209	0.0010218
931.909	0.219791	0.001075
933.838	0.267965	0.0010806
935.767	0.317668	0.001099
937.697	0.366629	0.0013014
939.626	0.406613	0.0013244
941.555	0.437508	0.0016031
943.485	0.457338	0.0016366
945.414	0.468302	0.0016066
947.344	0.481219	0.0018097
949.273	0.507057	0.0019279
951.202	0.544828	0.002163
953.132	0.571175	0.0023856
955.061	0.564227	0.0021728
956.991	0.588708	0.0023709
958.92	0.516528	0.0019474
960.849	0.478981	0.0015962
962.779	0.480014	0.0017174
964.708	0.494828	0.0018234
966.637	0.498807	0.0018238
968.567	0.474301	0.0015981
970.496	0.425668	0.0012537
972.426	0.357699	0.0011791
974.355	0.284292	0.001107
976.284	0.216429	0.0011846
978.214	0.159437	0.001493
980.143	0.115234	0.0016374
982.072	0.0821498	0.0017195
984.002	0.0582552	0.0018127
985.931	0.0416578	0.0019324
987.861	0.0306052	0.0019524
989.79	0.0238142	0.0019364
991.719	0.0191489	0.001975
993.649	0.0156222	0.0019784
995.578	0.0125473	0.002014
997.508	0.0100073	0.0019551
999.437	0.0088278	0.0020105
1001.36	0.0084956	0.0020114
1003.29	0.0089507	0.0019849
1005.22	0.008895	0.001995
1007.15	0.0088037	0.0019786
1009.08	0.0083819	0.0019792

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1011.01	0.008317	0.0020108
1012.94	0.008836	0.0019994
1014.87	0.009541	0.0019489
1016.8	0.010536	0.0019984
1018.73	0.011341	0.0019713
1020.66	0.012202	0.0019951
1022.59	0.013399	0.0020065
1024.51	0.015032	0.0019462
1026.44	0.018719	0.0019144
1028.37	0.022549	0.0019295
1030.3	0.02437	0.0018613
1032.23	0.029895	0.0018476
1034.16	0.036315	0.0018052
1036.09	0.040743	0.001809
1038.02	0.05032	0.0016809
1039.95	0.060313	0.0016029
1041.88	0.072983	0.0015945
1043.81	0.088551	0.001489
1045.74	0.108693	0.0013475
1047.67	0.130472	0.0012227
1049.6	0.154718	0.0011001
1051.53	0.181711	0.0009944
1053.45	0.20902	0.000943
1055.38	0.235721	0.0009843
1057.31	0.265491	0.0009909
1059.24	0.29069	0.0010522
1061.17	0.313881	0.0011061
1063.1	0.329072	0.0010308
1065.03	0.350586	0.0010097
1066.96	0.382246	0.0011409
1068.89	0.412978	0.0013806
1070.82	0.431857	0.001494
1072.75	0.454319	0.0013824
1074.68	0.43449	0.0012992
1076.61	0.426564	0.0011537
1078.54	0.431192	0.0012892
1080.47	0.42374	0.0012028
1082.39	0.421181	0.0011689
1084.32	0.406867	0.0010999
1086.25	0.403682	0.0011579
1088.18	0.396772	0.0011209
1090.11	0.385169	0.0009295
1092.04	0.356526	0.0009545
1093.97	0.327952	0.0010167
1095.9	0.299344	0.0009354

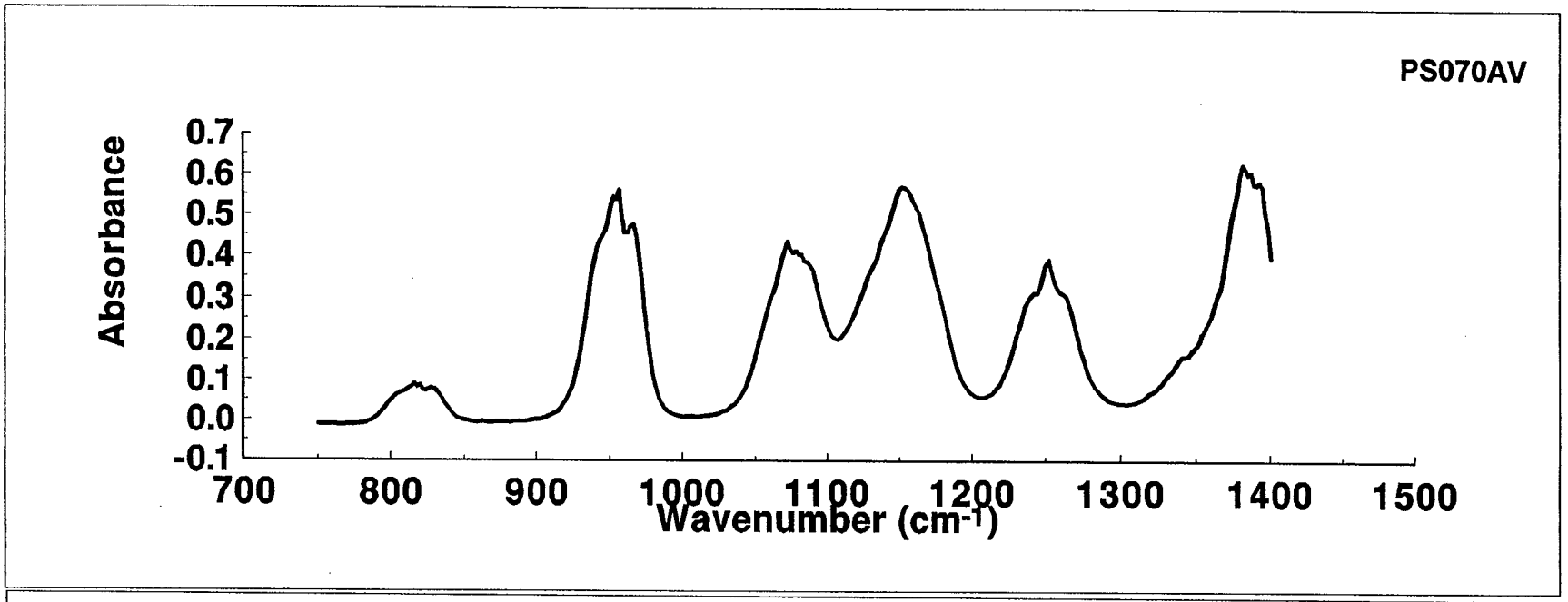
Isopropanol 84.96 Mole % 31.4 Torr PS085AV PS085AD

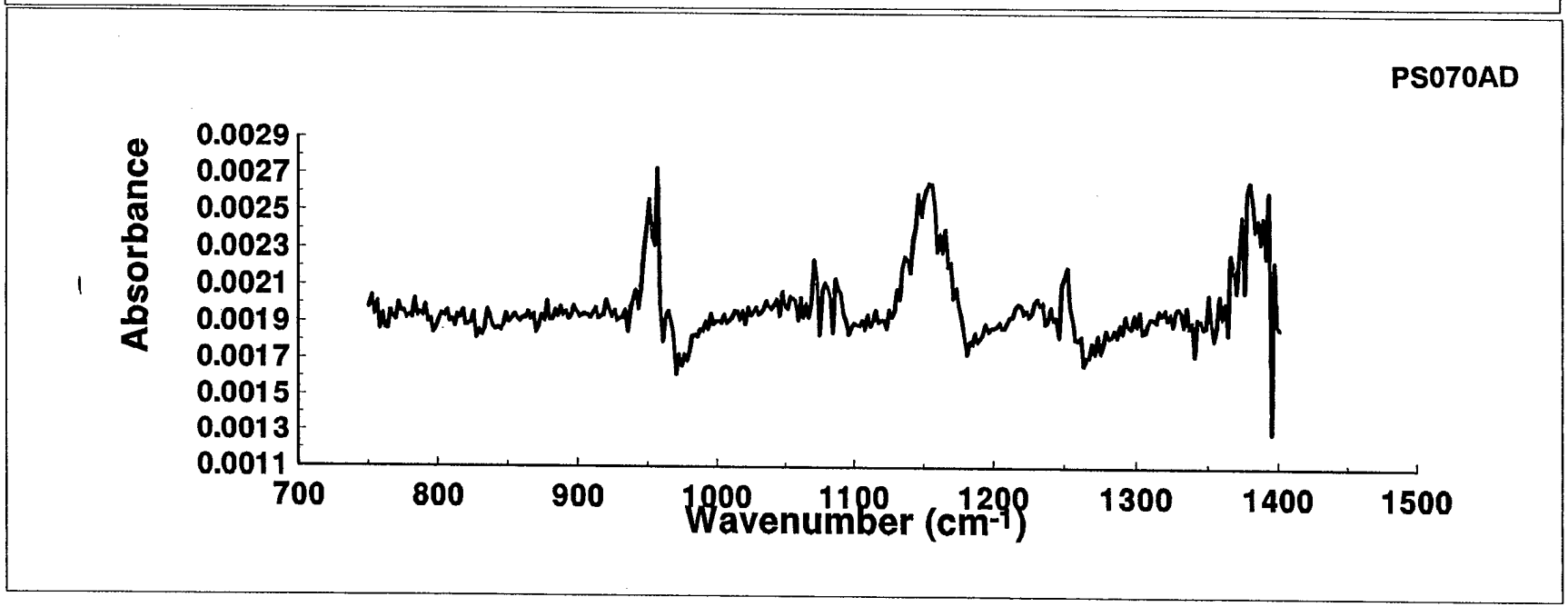
WN (cm-1)	AVE (A.U.)	AD (A.U.)
1097.83	0.272759	0.0009292
1099.76	0.249736	0.0009562
1101.69	0.231688	0.0010479
1103.62	0.219669	0.001051
1105.55	0.212482	0.0009798
1107.48	0.21127	0.0009888
1109.41	0.215135	0.0010001
1111.33	0.222468	0.0010347
1113.26	0.232685	0.0009445
1115.19	0.246869	0.0009648
1117.12	0.260342	0.0009475
1119.05	0.276764	0.0010026
1120.98	0.29424	0.0009029
1122.91	0.311888	0.0009095
1124.84	0.330941	0.0009664
1126.77	0.350929	0.0008969
1128.7	0.372337	0.0009961
1130.63	0.383785	0.0011864
1132.56	0.399106	0.001187
1134.49	0.414136	0.0012701
1136.42	0.442086	0.0015103
1138.34	0.465213	0.0016689
1140.27	0.478743	0.0016472
1142.2	0.495341	0.0018126
1144.13	0.520025	0.0019598
1146.06	0.543437	0.0019938
1147.99	0.571122	0.0022436
1149.92	0.591208	0.002408
1151.85	0.597804	0.0023511
1153.78	0.596803	0.0022408
1155.71	0.591189	0.0021106
1157.64	0.578654	0.0020384
1159.57	0.560721	0.0020939
1161.5	0.544579	0.0018918
1163.43	0.534067	0.001851
1165.36	0.505023	0.0016198
1167.28	0.477838	0.0015675
1169.21	0.45624	0.0014074
1171.14	0.42038	0.001111
1173.07	0.391774	0.0009067
1175	0.362423	0.001
1176.93	0.336423	0.0010174
1178.86	0.309777	0.0009661
1180.79	0.279308	0.0009657
1182.72	0.246272	0.0009024

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1184.65	0.214592	0.0010002
1186.58	0.183069	0.0011556
1188.51	0.15442	0.0013246
1190.44	0.13072	0.0014431
1192.37	0.112076	0.0015249
1194.3	0.09735	0.0015897
1196.22	0.085983	0.0016285
1198.15	0.076704	0.0016582
1200.08	0.069894	0.0016659
1202.01	0.065272	0.0016941
1203.94	0.062291	0.0017005
1205.87	0.060675	0.0017188
1207.8	0.060747	0.0016409
1209.73	0.062412	0.0016772
1211.66	0.065862	0.0016563
1213.59	0.070181	0.0015462
1215.52	0.078285	0.0014964
1217.45	0.086541	0.0014489
1219.38	0.098071	0.0013868
1221.31	0.111793	0.0013313
1223.24	0.128661	0.0012163
1225.16	0.148652	0.0010874
1227.09	0.171612	0.0009419
1229.02	0.196643	0.0009253
1230.95	0.223056	0.0009742
1232.88	0.24824	0.0009131
1234.81	0.272591	0.0009767
1236.74	0.29535	0.0008049
1238.67	0.311631	0.0009266
1240.6	0.320902	0.0009229
1242.53	0.328084	0.0009727
1244.46	0.328104	0.0008872
1246.39	0.340482	0.0009751
1248.32	0.369003	0.0011552
1250.25	0.396431	0.001324
1252.17	0.409381	0.0012393
1254.1	0.384991	0.0009994
1256.03	0.357222	0.0009498
1257.96	0.339338	0.0009886
1259.89	0.331021	0.0009739
1261.82	0.325835	0.0010468
1263.75	0.320608	0.000926
1265.68	0.300159	0.0010238
1267.61	0.277244	0.0008947
1269.54	0.248717	0.0009323

Isopropanol 84.96 Mole % 31.4 Torr PS085AV
PS085AD

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1271.47	0.218558	0.0010251
1273.4	0.186884	0.00121
1275.33	0.161222	0.0012671
1277.26	0.13736	0.0015067
1279.19	0.117051	0.0015151
1281.11	0.101702	0.0015473
1283.04	0.089013	0.0016489
1284.97	0.0788231	0.001655
1286.9	0.0702843	0.0017549
1288.83	0.0635875	0.0017119
1290.76	0.0572615	0.0017798
1292.69	0.0516796	0.0017598
1294.62	0.0487169	0.0017897
1296.55	0.0466581	0.001768
1298.48	0.0454135	0.0018049
1300.41	0.0444323	0.0018731
1302.34	0.0439592	0.001795
1304.27	0.0438296	0.0018237
1306.2	0.0441656	0.001756
1308.13	0.0458483	0.0018309
1310.05	0.0471358	0.0017543
1311.98	0.050187	0.0017496
1313.91	0.0539895	0.0017924
1315.84	0.0578074	0.0017117
1317.77	0.0634782	0.0017077
1319.7	0.0704463	0.0016287
1321.63	0.0752599	0.0016184
1323.56	0.0813447	0.0016015
1325.49	0.0894802	0.001535
1327.42	0.098318	0.0014528
1329.35	0.108201	0.0014488
1331.28	0.117031	0.0013911
1333.21	0.125647	0.0012331
1335.14	0.132822	0.0011852
1337.06	0.14436	0.0011549
1338.99	0.153377	0.0011567
1340.92	0.163164	0.0011801
1342.85	0.167381	0.0011679
1344.78	0.170156	0.0011784
1346.71	0.180079	0.001054
1348.64	0.186773	0.0010917
1350.57	0.195432	0.0009049
1352.5	0.208289	0.0010186
1354.43	0.226218	0.001019
1356.36	0.241541	0.0009031
1358.29	0.254804	0.0010727
1360.22	0.268389	0.001008
1362.15	0.288677	0.0009878
1364.08	0.313179	0.0011917
1366	0.333039	0.0009032
1367.93	0.365493	0.0010615
1369.86	0.406868	0.0013185
1371.79	0.457902	0.0013079
1373.72	0.502793	0.0015945
1375.65	0.536704	0.0021617
1377.58	0.574191	0.0022044
1379.51	0.619139	0.0023008
1381.44	0.654183	0.0025254
1383.37	0.645679	0.002635
1385.3	0.628833	0.0021453
1387.23	0.628008	0.0022325
1389.16	0.604697	0.0016207
1391.09	0.602415	0.0019518
1393.02	0.609333	0.0020124
1394.94	0.589337	0.0015189
1396.87	0.530341	0.0010327
1398.8	0.480655	0.0007573
1400.73	0.414332	0.0011891


PS070AV
Absorbance
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
-0.1
700
800
900
1000
1100
1200
1300
1400
1500
Wavenumber (cm-1)


PS070AD
Absorbance
0.0029
0.0027
0.0025
0.0023
0.0021
0.0019
0.0017
0.0015
0.0013
0.0011
700
800
900
1000
1100
1200
1300
1400
1500
Wavenumber (cm-1)

Isopropanol 70.02 Mole % 27.9 Torr PS070AV
PS070AD

WN (cm-1)	AVE (A.U.)	AD (A.U.)	WN (cm-1)	AVE (A.U.)	AD (A.U.)
750.547	-0.0120763	0.0019822	837.369	0.0381696	0.0019294
752.476	-0.0126045	0.0020364	839.298	0.0275116	0.0018758
754.405	-0.0129395	0.0019424	841.228	0.0182557	0.0018618
756.335	-0.0127509	0.0020054	843.157	0.010801	0.00187
758.264	-0.0122758	0.0018631	845.086	0.0052382	0.0018568
760.194	-0.0119214	0.0019425	847.016	0.00164	0.0018835
762.123	-0.0124348	0.0018654	848.945	-0.0002465	0.0019446
764.052	-0.0132861	0.0018628	850.874	-0.0016268	0.0019011
765.982	-0.0132712	0.001956	852.804	-0.0034028	0.0019207
767.911	-0.0131052	0.0019269	854.733	-0.00515	0.0019408
769.84	-0.0124713	0.0019136	856.663	-0.0065178	0.0019166
771.77	-0.012326	0.0020001	858.592	-0.0068346	0.0019063
773.699	-0.0124703	0.001956	860.521	-0.0062038	0.0019232
775.629	-0.0125442	0.0019578	862.451	-0.0057285	0.0019239
777.558	-0.0120293	0.0019232	864.38	-0.0061569	0.0019515
779.487	-0.0107491	0.0019366	866.31	-0.0069093	0.0019179
781.417	-0.0095974	0.0019248	868.239	-0.0074667	0.0019409
783.346	-0.0080055	0.0020221	870.168	-0.0072232	0.0018458
785.275	-0.0052419	0.0019341	872.098	-0.0062773	0.0018831
787.205	-0.0026257	0.0019494	874.027	-0.0059309	0.0019368
789.134	0.0019924	0.0019368	875.956	-0.0060583	0.0019095
791.064	0.0080661	0.0019873	877.886	-0.0066641	0.0020081
792.993	0.0158492	0.0019037	879.815	-0.00618	0.0019158
794.922	0.0239533	0.001915	881.745	-0.0069498	0.0019163
796.852	0.0328064	0.0018427	883.674	-0.0057629	0.0019646
798.781	0.041376	0.0018682	885.603	-0.0046789	0.0019335
800.711	0.0502455	0.0019093	887.533	-0.0046975	0.0019783
802.64	0.0575771	0.0019447	889.462	-0.0046866	0.0019404
804.569	0.0630264	0.0019354	891.392	-0.004476	0.0019556
806.499	0.0663443	0.0019607	893.321	-0.003992	0.0019184
808.428	0.0688513	0.001905	895.25	-0.0026476	0.0019354
810.357	0.0722365	0.0019136	897.18	-0.0007316	0.0019865
812.287	0.0775704	0.0018789	899.109	0.0001448	0.0019565
814.216	0.0820523	0.0019387	901.038	0.0004406	0.0019321
816.146	0.0887953	0.0019261	902.968	0.001156	0.0019396
818.075	0.0821012	0.0019603	904.897	0.003045	0.0019417
820.004	0.0858721	0.0018842	906.827	0.005376	0.0019372
821.934	0.0755683	0.0018875	908.756	0.0090462	0.0019265
823.863	0.0728337	0.0018973	910.685	0.0122026	0.001946
825.792	0.0754854	0.0019484	912.615	0.0157299	0.0019745
827.722	0.0775071	0.0018166	914.544	0.0200926	0.0019214
829.651	0.0762723	0.0018544	916.473	0.0266263	0.0019329
831.581	0.070341	0.0018305	918.403	0.0365755	0.0019369
833.51	0.060813	0.0018611	920.332	0.0489726	0.0020163
835.439	0.0493318	0.0019638	922.262	0.0628887	0.0019775

Isopropanol 70.02 Mole % 27.9 Torr PS070AV PS070AD

WN (cm-1)	AVE (A.U.)	AD (A.U.)
924.191	0.0808131	0.001931
926.12	0.103358	0.0019634
928.05	0.131962	0.0019104
929.979	0.168118	0.0019209
931.909	0.209087	0.0019226
933.838	0.254997	0.001962
935.767	0.30243	0.0018487
937.697	0.34915	0.0019763
939.626	0.387206	0.0020162
941.555	0.416685	0.0020708
943.485	0.435595	0.0019739
945.414	0.44593	0.0020824
947.344	0.4579	0.0022858
949.273	0.48286	0.0024055
951.202	0.518818	0.0025583
953.132	0.543873	0.0023537
955.061	0.536854	0.0023123
956.991	0.560154	0.0027256
958.92	0.491616	0.0019946
960.849	0.455846	0.0017955
962.779	0.456261	0.0019177
964.708	0.470486	0.0019536
966.637	0.474138	0.001903
968.567	0.450184	0.0018341
970.496	0.403841	0.0016152
972.426	0.338875	0.0017209
974.355	0.269109	0.0016592
976.284	0.204484	0.0017231
978.214	0.150308	0.0016875
980.143	0.108321	0.0017387
982.072	0.0772561	0.0018242
984.002	0.054545	0.0018278
985.931	0.0388636	0.0018229
987.861	0.0284606	0.0018599
989.79	0.0219672	0.0018528
991.719	0.0177652	0.0019001
993.649	0.0145034	0.0018628
995.578	0.0114753	0.0019411
997.508	0.009191	0.0018903
999.437	0.0081499	0.0019067
1001.36	0.0079206	0.0019076
1003.29	0.0083532	0.0018989
1005.22	0.0085534	0.0019385
1007.15	0.0084273	0.0018961
1009.08	0.0080074	0.0019132

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1011.01	0.0078177	0.0019262
1012.94	0.008542	0.0019594
1014.87	0.0091558	0.0019595
1016.8	0.0100995	0.001918
1018.73	0.0110247	0.0019589
1020.66	0.0117562	0.0018905
1022.59	0.012811	0.0019783
1024.51	0.0145172	0.0019377
1026.44	0.0181636	0.0019564
1028.37	0.0218461	0.0019789
1030.3	0.0234333	0.0019439
1032.23	0.0288698	0.0019537
1034.16	0.0353912	0.0019735
1036.09	0.039217	0.0020116
1038.02	0.0485665	0.0019828
1039.95	0.058196	0.0019733
1041.88	0.070363	0.0019931
1043.81	0.0852396	0.0020236
1045.74	0.104449	0.0019403
1047.67	0.125171	0.0020623
1049.6	0.148531	0.001989
1051.53	0.17421	0.0019747
1053.45	0.200435	0.0020381
1055.38	0.225912	0.002029
1057.31	0.254464	0.0020184
1059.24	0.27828	0.001916
1061.17	0.300405	0.0020305
1063.1	0.314714	0.0019293
1065.03	0.335163	0.0020007
1066.96	0.365862	0.0019291
1068.89	0.394404	0.0020091
1070.82	0.412728	0.0022341
1072.75	0.433766	0.0021068
1074.68	0.41517	0.0018347
1076.61	0.407644	0.0020708
1078.54	0.411903	0.002109
1080.47	0.4045	0.002088
1082.39	0.402141	0.0020413
1084.32	0.387907	0.0018467
1086.25	0.38528	0.0021349
1088.18	0.378339	0.0020797
1090.11	0.366866	0.0020582
1092.04	0.339466	0.0019437
1093.97	0.31198	0.0019107
1095.9	0.28463	0.0018377

Isopropanol 70.02 Mole % 27.9 Torr PS070AV PS070AD

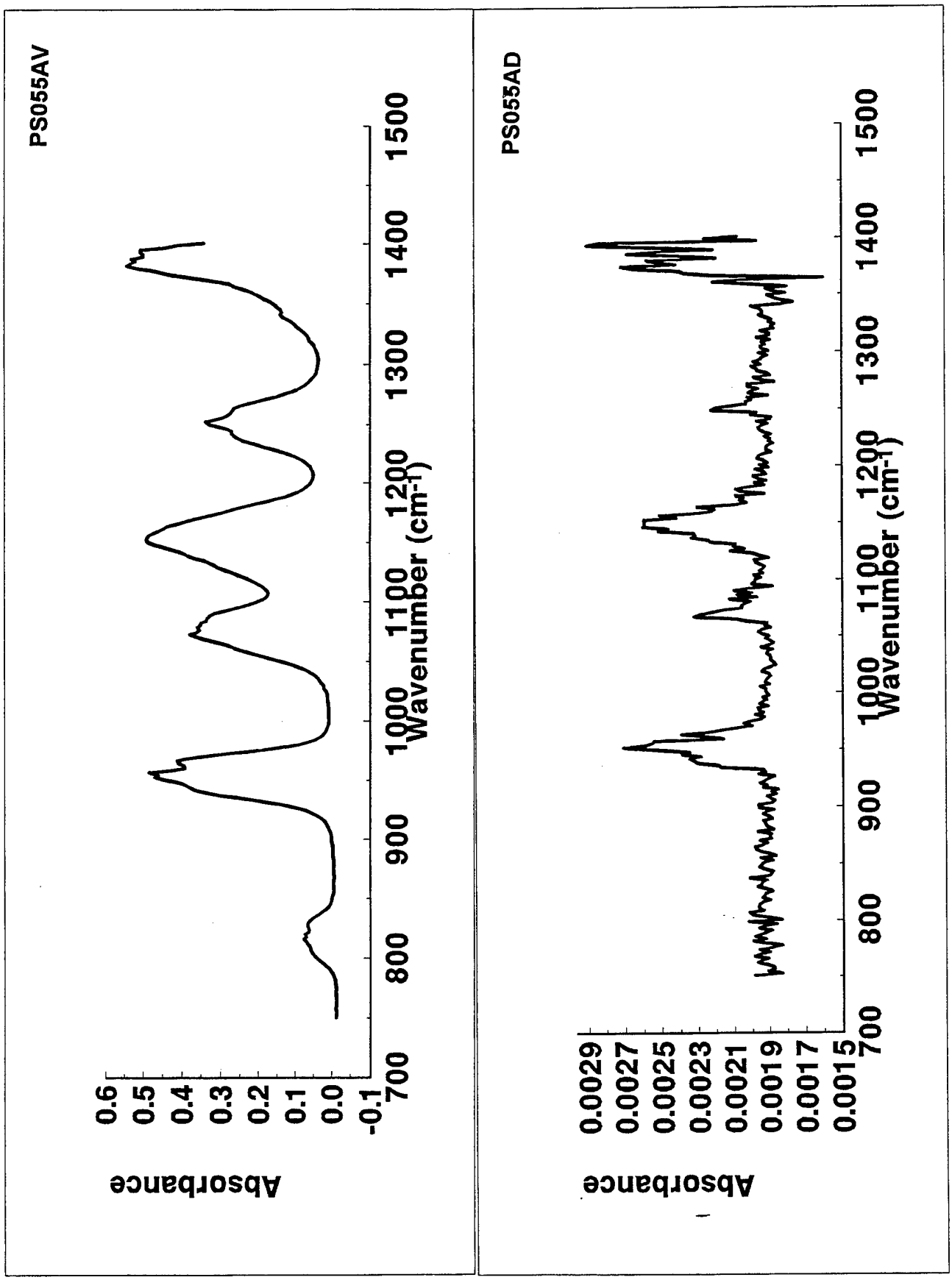
WN (cm-1)	AVE (A.U.)	AD (A.U.)
1097.83	0.259497	0.0018808
1099.76	0.237475	0.0018967
1101.69	0.220468	0.0018878
1103.62	0.208687	0.0018846
1105.55	0.202075	0.0019128
1107.48	0.200879	0.001864
1109.41	0.204697	0.0019402
1111.33	0.211715	0.001883
1113.26	0.221472	0.0019051
1115.19	0.235113	0.0019645
1117.12	0.248007	0.001903
1119.05	0.263258	0.0019135
1120.98	0.280402	0.0019143
1122.91	0.29714	0.0018691
1124.84	0.315202	0.0019686
1126.77	0.334077	0.0019338
1128.7	0.354432	0.0019672
1130.63	0.365514	0.0020781
1132.56	0.380163	0.0020271
1134.49	0.394205	0.0021938
1136.42	0.420842	0.0022538
1138.34	0.442971	0.0022419
1140.27	0.455849	0.0021722
1142.2	0.471573	0.0023419
1144.13	0.495189	0.0024185
1146.06	0.517805	0.0025911
1147.99	0.544074	0.0024753
1149.92	0.562905	0.0025674
1151.85	0.569531	0.0026222
1153.78	0.567902	0.0026487
1155.71	0.562925	0.0026431
1157.64	0.550591	0.0025311
1159.57	0.533611	0.0022865
1161.5	0.517733	0.0023775
1163.43	0.508228	0.0022796
1165.36	0.480387	0.0023984
1167.28	0.454675	0.0022028
1169.21	0.433741	0.0022241
1171.14	0.399663	0.0020354
1173.07	0.372584	0.0020866
1175	0.344569	0.0019843
1176.93	0.319821	0.0019243
1178.86	0.294229	0.0018292
1180.79	0.2652	0.0017313
1182.72	0.233786	0.0017966

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1184.65	0.2034	0.0017819
1186.58	0.173364	0.0018404
1188.51	0.146204	0.0017968
1190.44	0.123885	0.0018183
1192.37	0.10621	0.0018432
1194.3	0.0921637	0.0018921
1196.22	0.0813482	0.0018528
1198.15	0.0727356	0.0018716
1200.08	0.066089	0.001874
1202.01	0.0617758	0.0018771
1203.94	0.058853	0.0019017
1205.87	0.0573961	0.0018727
1207.8	0.0576937	0.0018745
1209.73	0.0592173	0.0019048
1211.66	0.0625865	0.0019313
1213.59	0.0668395	0.001936
1215.52	0.0746541	0.001983
1217.45	0.0822513	0.0019991
1219.38	0.0934475	0.001996
1221.31	0.106534	0.0019531
1223.24	0.122661	0.001966
1225.16	0.142267	0.0019358
1227.09	0.163699	0.0019566
1229.02	0.187729	0.0020108
1230.95	0.21296	0.00203
1232.88	0.237096	0.0019974
1234.81	0.260219	0.0020069
1236.74	0.282103	0.0018956
1238.67	0.297194	0.0019096
1240.6	0.306102	0.0019804
1242.53	0.313064	0.0019154
1244.46	0.313132	0.0019289
1246.39	0.32497	0.0018269
1248.32	0.351838	0.0021068
1250.25	0.378072	0.0021474
1252.17	0.390209	0.002194
1254.1	0.366276	0.0019862
1256.03	0.340118	0.0019107
1257.96	0.32289	0.0018102
1259.89	0.31517	0.0018056
1261.82	0.310083	0.0018251
1263.75	0.305063	0.0016688
1265.68	0.285349	0.0017086
1267.61	0.2636	0.0017097
1269.54	0.236368	0.0017896

Isopropanol 70.02 Mole % 27.9 Torr PS070AV
PS070AD

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1271.47	0.207667	0.0017332
1273.4	0.176788	0.0018285
1275.33	0.152483	0.0017387
1277.26	0.130136	0.0017891
1279.19	0.110977	0.0018589
1281.11	0.0962024	0.001821
1283.04	0.0840778	0.0018282
1284.97	0.0745215	0.0018593
1286.9	0.0665664	0.0018254
1288.83	0.060312	0.0018893
1290.76	0.0543221	0.001846
1292.69	0.0489422	0.0019354
1294.62	0.0459399	0.0018801
1296.55	0.0441404	0.0018743
1298.48	0.0427206	0.0019427
1300.41	0.041707	0.0018845
1302.34	0.0413063	0.0019601
1304.27	0.0410151	0.0018464
1306.2	0.041616	0.001854
1308.13	0.0435468	0.0018972
1310.05	0.044556	0.0019253
1311.98	0.0478559	0.0019242
1313.91	0.0516991	0.0019092
1315.84	0.0549971	0.0019639
1317.77	0.0613991	0.0019438
1319.7	0.0689739	0.0019713
1321.63	0.0719805	0.0019199
1323.56	0.0774394	0.0019509
1325.49	0.0850248	0.0018879
1327.42	0.0934964	0.0019673
1329.35	0.102816	0.0019798
1331.28	0.111296	0.0019614
1333.21	0.119507	0.0018842
1335.14	0.126872	0.0019862
1337.06	0.140316	0.0018758
1338.99	0.150923	0.001906
1340.92	0.15932	0.0017224
1342.85	0.159197	0.0019233
1344.78	0.161812	0.0019161
1346.71	0.171612	0.0018711
1348.64	0.177997	0.0018779
1350.57	0.186183	0.0020525
1352.5	0.198377	0.0019005
1354.43	0.21606	0.0018105
1356.36	0.230278	0.0018854

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1358.29	0.244045	0.0020486
1360.22	0.256321	0.0019275
1362.15	0.279342	0.0020099
1364.08	0.304261	0.0018398
1366	0.319341	0.0022667
1367.93	0.350627	0.0022113
1369.86	0.390841	0.002071
1371.79	0.439167	0.0022713
1373.72	0.486573	0.0024744
1375.65	0.51652	0.0020703
1377.58	0.549616	0.0026037
1379.51	0.59207	0.0026588
1381.44	0.625158	0.0025557
1383.37	0.617533	0.0024013
1385.3	0.600431	0.0024564
1387.23	0.605831	0.0023331
1389.16	0.577266	0.00247
1391.09	0.575149	0.0022568
1393.02	0.581194	0.0026019
1394.94	0.571669	0.0012909
1396.87	0.50695	0.0022278
1398.8	0.462593	0.0018904
1400.73	0.395638	0.001869


PS055AV
Absorbance
0.6
0.5
0.4
0.3
0.2
0.1
0.0
-0.1
700
800
900
1000
1100
1200
1300
1400
1500
Wavenumber (cm-1)
PS055AD
Absorbance
0.0029
0.0027
0.0025
0.0023
0.0021
0.0019
0.0017
0.0015
700
800
900
1000
1100
1200
1300
1400
1500
Wavenumber (cm-1)

Isopropanol 55.00 Mole % 25.0 Torr PS055AV
PS055AD

WN (cm-1)	AVE (A.U.)	AD (A.U.)
750.547	-0.012734	0.0019873
752.476	-0.0132434	0.0018336
754.405	-0.0137584	0.0019095
756.335	-0.013265	0.0018714
758.264	-0.012606	0.0018814
760.194	-0.0128315	0.0019139
762.123	-0.013288	0.0019677
764.052	-0.0135949	0.0019472
765.982	-0.0138784	0.0019088
767.911	-0.0131318	0.0019858
769.84	-0.0127693	0.0019542
771.77	-0.0123123	0.0019015
773.699	-0.0128047	0.0019578
775.629	-0.0128989	0.0018815
777.558	-0.0124889	0.0018342
779.487	-0.0114012	0.0019172
781.417	-0.010288	0.001992
783.346	-0.0090855	0.0019228
785.275	-0.006942	0.0019823
787.205	-0.0045709	0.0019526
789.134	-0.0003818	0.0019227
791.064	0.0045912	0.0018893
792.993	0.0114682	0.0019599
794.922	0.0184599	0.0019329
796.852	0.0260702	0.0018611
798.781	0.0334782	0.0020183
800.711	0.0410563	0.0018355
802.64	0.0472786	0.001916
804.569	0.0522895	0.0019975
806.499	0.0552808	0.0020133
808.428	0.0572596	0.0019366
810.357	0.0601379	0.0019594
812.287	0.065127	0.0019606
814.216	0.0687629	0.001956
816.146	0.0744775	0.0019394
818.075	0.0688263	0.0018986
820.004	0.0717609	0.001938
821.934	0.0626291	0.0019275
823.863	0.0606153	0.0019219
825.792	0.0633675	0.0018871
827.722	0.0650685	0.0019217
829.651	0.0637233	0.0019689
831.581	0.0585358	0.0019476
833.51	0.0501545	0.0019418
835.439	0.0401335	0.0019174

WN (cm-1)	AVE (A.U.)	AD (A.U.)
837.369	0.0308301	0.0020118
839.298	0.0217881	0.0019004
841.228	0.0138393	0.0018905
843.157	0.007303	0.0018841
845.086	0.0026105	0.0019271
847.016	-0.0004358	0.0019558
848.945	-0.0019856	0.0019478
850.874	-0.002922	0.0019349
852.804	-0.0045267	0.0018833
854.733	-0.0063358	0.0019499
856.663	-0.0073693	0.001868
858.592	-0.0075456	0.0018951
860.521	-0.0070678	0.0019507
862.451	-0.0065577	0.0019757
864.38	-0.0067317	0.0019828
866.31	-0.007673	0.0019394
868.239	-0.0081773	0.0019135
870.168	-0.0077344	0.0019529
872.098	-0.0068109	0.0018916
874.027	-0.0065049	0.0018977
875.956	-0.0067659	0.0018917
877.886	-0.0072434	0.0019651
879.815	-0.0066006	0.0018807
881.745	-0.0073463	0.0019084
883.674	-0.0062613	0.0019209
885.603	-0.0053434	0.0019229
887.533	-0.0054159	0.0019328
889.462	-0.0054309	0.0018849
891.392	-0.0051586	0.0019033
893.321	-0.0048106	0.0019339
895.25	-0.0035386	0.0019218
897.18	-0.0018728	0.0018787
899.109	-0.0012539	0.0019579
901.038	-0.0010672	0.0019617
902.968	-0.0006014	0.0018847
904.897	0.0008264	0.0018721
906.827	0.0031097	0.0018899
908.756	0.0062364	0.0019131
910.685	0.0087674	0.0018637
912.615	0.0114399	0.001887
914.544	0.0151855	0.0018532
916.473	0.0207679	0.0019336
918.403	0.0293376	0.0019162
920.332	0.0401725	0.0019509
922.262	0.0519856	0.0019261

Isopropanol 55.00 Mole % 25.0 Torr PS055AV PS055AD

WN (cm-1)	AVE (A.U.)	AD (A.U.)	WN (cm-1)	AVE (A.U.)	AD (A.U.)
924.191	0.0672682	0.0019047	1011.01	0.0060047	0.0019153
926.12	0.0866927	0.0018715	1012.94	0.0067195	0.0019034
928.05	0.111363	0.001959	1014.87	0.0074315	0.0018943
929.979	0.142897	0.001923	1016.8	0.0082694	0.0019008
931.909	0.178478	0.0019334	1018.73	0.009127	0.0019377
933.838	0.218473	0.002169	1020.66	0.0097547	0.0019289
935.767	0.25954	0.0021876	1022.59	0.0105252	0.0018861
937.697	0.299789	0.002305	1024.51	0.0119738	0.0018644
939.626	0.332693	0.0023225	1026.44	0.0154893	0.0018762
941.555	0.358001	0.0023459	1028.37	0.0190681	0.0018895
943.485	0.374232	0.0022868	1030.3	0.0199218	0.0018897
945.414	0.383229	0.0023879	1032.23	0.0254277	0.0018946
947.344	0.393831	0.0023477	1034.16	0.0314876	0.0019106
949.273	0.415497	0.0025336	1036.09	0.0341509	0.0019077
951.202	0.446322	0.0027056	1038.02	0.0425771	0.0018815
953.132	0.467838	0.0025855	1039.95	0.05086	0.0019437
955.061	0.461148	0.0025528	1041.88	0.0616465	0.0018965
956.991	0.482847	0.0025412	1043.81	0.0747557	0.0018757
958.92	0.421315	0.0021597	1045.74	0.0912677	0.0018921
960.849	0.391964	0.0022464	1047.67	0.109612	0.001918
962.779	0.393496	0.0023885	1049.6	0.129919	0.0019007
964.708	0.406166	0.0022457	1051.53	0.152178	0.0019378
966.637	0.409216	0.0021613	1053.45	0.174931	0.0019578
968.567	0.388322	0.0020891	1055.38	0.19701	0.0019387
970.496	0.347194	0.0020001	1057.31	0.221643	0.0018922
972.426	0.290839	0.0020424	1059.24	0.241972	0.0019219
974.355	0.230347	0.0019994	1061.17	0.260381	0.0019112
976.284	0.174446	0.0019434	1063.1	0.273156	0.0020342
978.214	0.127857	0.0019274	1065.03	0.291514	0.0020908
980.143	0.0918536	0.0019788	1066.96	0.318699	0.0023163
982.072	0.0651009	0.0019322	1068.89	0.342462	0.0022867
984.002	0.0454329	0.0019564	1070.82	0.358333	0.002223
985.931	0.0319309	0.0019629	1072.75	0.376202	0.0021489
987.861	0.0228711	0.001908	1074.68	0.359537	0.0020543
989.79	0.017394	0.0019522	1076.61	0.353352	0.0020544
991.719	0.0138026	0.0019379	1078.54	0.357247	0.0020389
993.649	0.0109278	0.0019147	1080.47	0.350613	0.0020053
995.578	0.008471	0.0019343	1082.39	0.348207	0.0021201
997.508	0.0064305	0.0019022	1084.32	0.336064	0.0019705
999.437	0.0054727	0.0019136	1086.25	0.333615	0.0020787
1001.36	0.0055331	0.001919	1088.18	0.327322	0.0019975
1003.29	0.0060771	0.0019194	1090.11	0.317308	0.0020926
1005.22	0.0062632	0.0019471	1092.04	0.292631	0.002007
1007.15	0.0062563	0.0018989	1093.97	0.268665	0.0018818
1009.08	0.0060121	0.0019214	1095.9	0.244704	0.0019965

Isopropanol 55.00 Mole % 25.0 Torr PS055AV
PS055AD

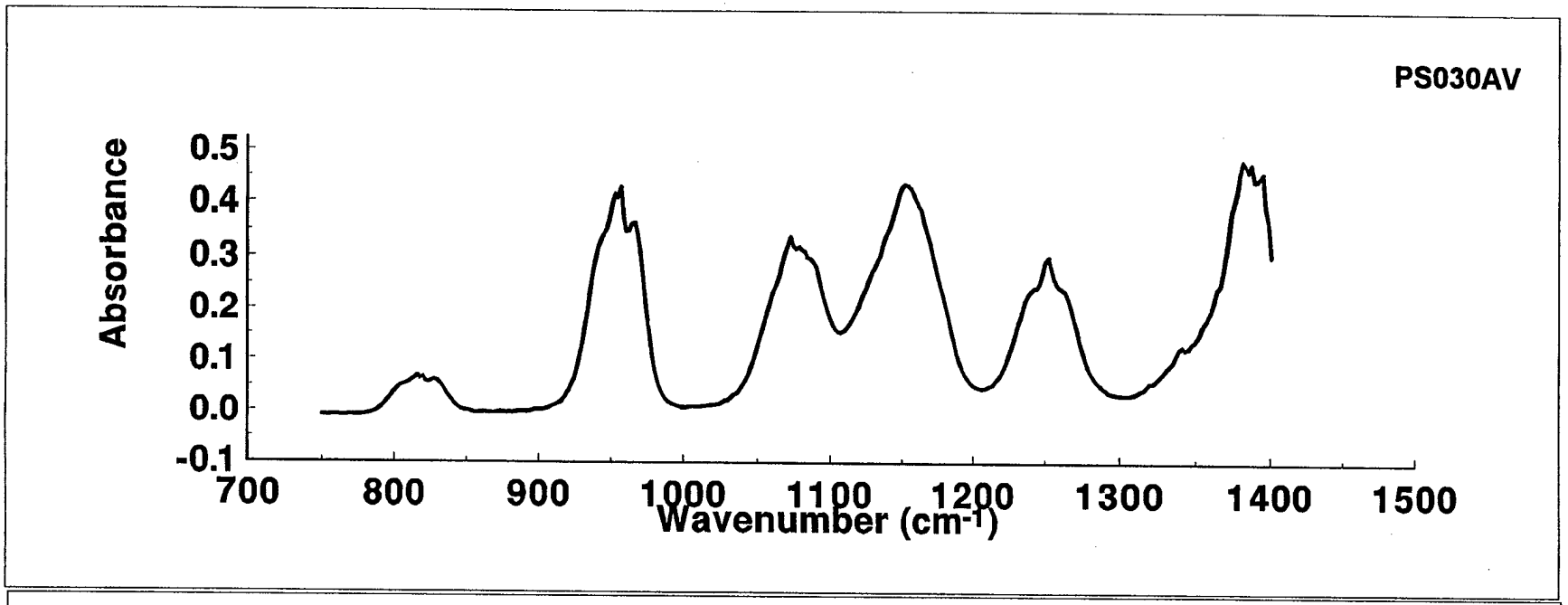
WN (cm-1)	AVE (A.U.)	AD (A.U.)
1097.83	0.222994	0.0019807
1099.76	0.203828	0.0019769
1101.69	0.189226	0.0019456
1103.62	0.178979	0.001982
1105.55	0.173185	0.0019348
1107.48	0.172163	0.0019515
1109.41	0.175363	0.0019322
1111.33	0.181251	0.001924
1113.26	0.189698	0.0019454
1115.19	0.201381	0.0019727
1117.12	0.212421	0.0019801
1119.05	0.225753	0.0019023
1120.98	0.240541	0.0019545
1122.91	0.255129	0.0019933
1124.84	0.270664	0.0021152
1126.77	0.286874	0.0020395
1128.7	0.304416	0.0020984
1130.63	0.313871	0.0020897
1132.56	0.326238	0.0022216
1134.49	0.339144	0.0022413
1136.42	0.362374	0.0023295
1138.34	0.381096	0.0023122
1140.27	0.39214	0.0023225
1142.2	0.405727	0.0025136
1144.13	0.42665	0.002461
1146.06	0.446058	0.0025984
1147.99	0.468859	0.0025914
1149.92	0.484855	0.0025915
1151.85	0.490467	0.0025929
1153.78	0.488946	0.0024172
1155.71	0.484842	0.0025053
1157.64	0.474036	0.0023069
1159.57	0.458831	0.0022187
1161.5	0.445645	0.0022058
1163.43	0.437348	0.002298
1165.36	0.412492	0.0020909
1167.28	0.390948	0.0020272
1169.21	0.372574	0.0020619
1171.14	0.343225	0.0020416
1173.07	0.319823	0.0020821
1175	0.296028	0.0019247
1176.93	0.274408	0.0020611
1178.86	0.252232	0.0020818
1180.79	0.227019	0.002014
1182.72	0.199723	0.0019249

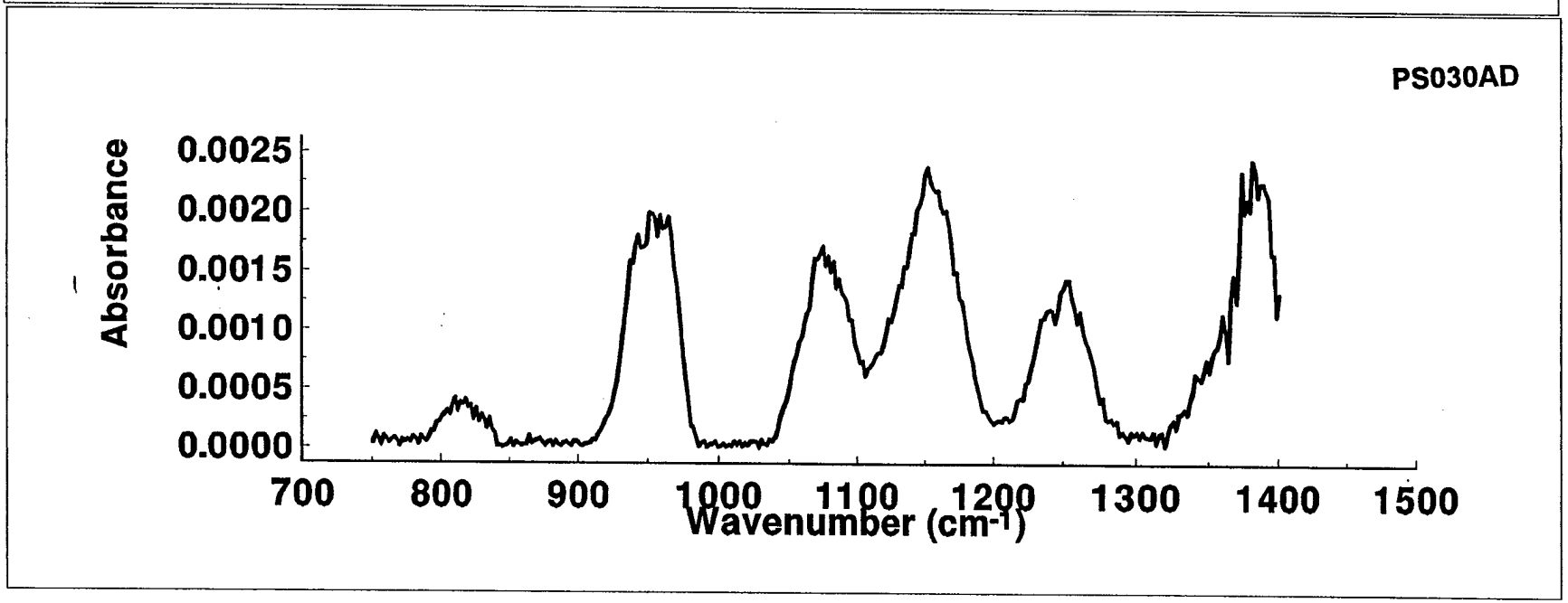
WN (cm-1)	AVE (A.U.)	AD (A.U.)
1184.65	0.173644	0.0019775
1186.58	0.147838	0.0019149
1188.51	0.124117	0.0019609
1190.44	0.105162	0.0019865
1192.37	0.0898929	0.0019181
1194.3	0.0779636	0.0019244
1196.22	0.0685591	0.0019717
1198.15	0.061106	0.0019006
1200.08	0.0554207	0.001949
1202.01	0.0516907	0.0019051
1203.94	0.0492134	0.0019259
1205.87	0.0480623	0.001962
1207.8	0.0481967	0.0019568
1209.73	0.0496987	0.0019327
1211.66	0.0525213	0.0018864
1213.59	0.0562225	0.0019121
1215.52	0.0631847	0.0019123
1217.45	0.0698353	0.001904
1219.38	0.0797539	0.0018777
1221.31	0.0910359	0.0018993
1223.24	0.105339	0.0018927
1225.16	0.122236	0.0019195
1227.09	0.14101	0.0018898
1229.02	0.161869	0.0019282
1230.95	0.183711	0.0019478
1232.88	0.204226	0.0019556
1234.81	0.224353	0.0019423
1236.74	0.243158	0.0019066
1238.67	0.255729	0.001964
1240.6	0.263735	0.0018927
1242.53	0.269337	0.0018872
1244.46	0.269864	0.0020006
1246.39	0.280476	0.0019688
1248.32	0.304447	0.0022201
1250.25	0.327023	0.0022031
1252.17	0.335794	0.0021071
1254.1	0.315809	0.0020266
1256.03	0.292424	0.0020263
1257.96	0.278138	0.0019961
1259.89	0.272171	0.0020193
1261.82	0.267684	0.0019042
1263.75	0.262652	0.0020096
1265.68	0.245699	0.001999
1267.61	0.226391	0.0019584
1269.54	0.202956	0.0020155

Isopropanol 55.00 Mole % 25.0 Torr PS055AV PS055AD

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1271.47	0.178215	0.0020173
1273.4	0.150861	0.0018672
1275.33	0.129982	0.0019432
1277.26	0.110642	0.0019804
1279.19	0.0939835	0.0018909
1281.11	0.0813232	0.001905
1283.04	0.0707535	0.0019611
1284.97	0.0625759	0.001967
1286.9	0.0558896	0.0019942
1288.83	0.0505099	0.0019448
1290.76	0.0452189	0.0019815
1292.69	0.0403335	0.0019493
1294.62	0.0378539	0.0019366
1296.55	0.0365314	0.0019072
1298.48	0.0348025	0.0019518
1300.41	0.0341486	0.0019031
1302.34	0.0337093	0.0019351
1304.27	0.0334893	0.0019434
1306.2	0.0338436	0.0019197
1308.13	0.0356845	0.0019354
1310.05	0.0363912	0.0018928
1311.98	0.0397483	0.0019623
1313.91	0.042998	0.0018956
1315.84	0.0454209	0.0018954
1317.77	0.0516501	0.0019415
1319.7	0.0590656	0.0018704
1321.63	0.0602681	0.0018846
1323.56	0.0649603	0.001867
1325.49	0.0714822	0.0018952
1327.42	0.0787085	0.0018838
1329.35	0.086836	0.0019163
1331.28	0.0940303	0.00195
1333.21	0.101089	0.0019334
1335.14	0.107721	0.0019354
1337.06	0.12135	0.0019495
1338.99	0.13216	0.0019959
1340.92	0.13794	0.0018329
1342.85	0.135476	0.0017667
1344.78	0.137873	0.0018418
1346.71	0.146409	0.0018754
1348.64	0.15199	0.0019019
1350.57	0.159146	0.0018072
1352.5	0.170009	0.0018826
1354.43	0.185484	0.0019126
1356.36	0.196934	0.0017996

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1358.29	0.208973	0.002
1360.22	0.220518	0.0022109
1362.15	0.241591	0.0020669
1364.08	0.262064	0.0015986
1366	0.274317	0.0022029
1367.93	0.302798	0.0023674
1369.86	0.337895	0.0023986
1371.79	0.379974	0.0026493
1373.72	0.425915	0.002712
1375.65	0.448621	0.0024166
1377.58	0.476433	0.0025225
1379.51	0.513442	0.002576
1381.44	0.540377	0.0021949
1383.37	0.532733	0.0023642
1385.3	0.519313	0.00268
1387.23	0.528706	0.0025315
1389.16	0.499062	0.0022103
1391.09	0.499251	0.0025572
1393.02	0.505155	0.0028986
1394.94	0.505167	0.0028429
1396.87	0.440966	0.001968
1398.8	0.406729	0.0022601
1400.73	0.340788	0.0020738


PS030AV
Absorbance
0.5
0.4
0.3
0.2
0.1
0.0
-0.1
700
800
900
1000
1100
1200
1300
1400
1500
Wavenumber (cm-1)


PS030AD
Absorbance
0.0025
0.0020
0.0015
0.0010
0.0005
0.0000
700
800
900
1000
1100
1200
1300
1400
1500
Wavenumber (cm-1)

Isopropanol 30.01 Mole % 21.2 Torr PS030AV
PS030AD

WN (cm-1)	AVE (A.U.)	AD (A.U.)
750.547	-0.0090953	0.000038
752.476	-0.0094221	0.0001124
754.405	-0.0099413	0.0000763
756.335	-0.0095623	0.0000248
758.264	-0.0089341	0.0000923
760.194	-0.0091061	0.0000726
762.123	-0.0095327	0.0000428
764.052	-0.0102469	0.000061
765.982	-0.0101031	0.0000789
767.911	-0.0098111	0.0000544
769.84	-0.0091276	0.000013
771.77	-0.00899	0.0000602
773.699	-0.0095006	0.0000454
775.629	-0.0094656	0.0000621
777.558	-0.0089744	0.0000489
779.487	-0.0082143	0.0000853
781.417	-0.0070903	0.0000714
783.346	-0.0057313	0.0000313
785.275	-0.0038532	0.0000896
787.205	-0.0019366	0.000068
789.134	0.0017557	0.0000504
791.064	0.0061911	0.0000801
792.993	0.0120648	0.0001364
794.922	0.0185905	0.0001366
796.852	0.0251683	0.0002074
798.781	0.0318472	0.0002145
800.711	0.038183	0.0002582
802.64	0.0440051	0.0002808
804.569	0.0483353	0.0003106
806.499	0.0508074	0.0002794
808.428	0.0528084	0.0003541
810.357	0.0551678	0.0004144
812.287	0.0592994	0.0003063
814.216	0.0627784	0.0003796
816.146	0.0676672	0.000363
818.075	0.0627203	0.0004038
820.004	0.0653532	0.0003429
821.934	0.0572619	0.0003552
823.863	0.0555962	0.0002375
825.792	0.0580944	0.0003288
827.722	0.0597494	0.0002212
829.651	0.0586167	0.0002728
831.581	0.0537103	0.000241
833.51	0.0462194	0.0001649
835.439	0.0373443	0.0002445

WN (cm-1)	AVE (A.U.)	AD (A.U.)
837.369	0.0292759	0.0001516
839.298	0.0213941	0.0001243
841.228	0.014592	0.0000185
843.157	0.0088985	0.00002
845.086	0.0044875	8.62E-06
847.016	0.0019162	0.0000157
848.945	0.0004522	0.0000271
850.874	-0.0002721	0.000063
852.804	-0.0015154	0.0000114
854.733	-0.0030965	0.0000481
856.663	-0.0043248	0.0000324
858.592	-0.0041296	0.0000198
860.521	-0.0035347	0.0000265
862.451	-0.0029672	0.0000291
864.38	-0.0036659	0.0000995
866.31	-0.004204	0.0000409
868.239	-0.0045799	0.0000588
870.168	-0.0042293	0.0000621
872.098	-0.0033335	0.0000728
874.027	-0.00298	0.0000473
875.956	-0.0031958	0.0000214
877.886	-0.0036471	0.0000496
879.815	-0.002996	0.0000557
881.745	-0.0038105	0.0000158
883.674	-0.0027541	0.0000581
885.603	-0.0017363	0.0000306
887.533	-0.0018564	0.0000215
889.462	-0.0018422	0.0000404
891.392	-0.0017328	0.000048
893.321	-0.0015868	0.000032
895.25	-0.0003269	0.0000199
897.18	0.0011819	0.0000547
899.109	0.0016746	0.0000563
901.038	0.0017949	0.0000292
902.968	0.0020461	0.0000172
904.897	0.0032688	0.0000326
906.827	0.0052279	0.000034
908.756	0.0080684	0.0000416
910.685	0.0102372	0.000067
912.615	0.0125243	0.0000634
914.544	0.0156536	0.0001121
916.473	0.0204063	0.0001496
918.403	0.028207	0.0001953
920.332	0.0375412	0.0002499
922.262	0.0480405	0.0002809

Isopropanol 30.01 Mole % 21.2 Torr PS030AV PS030AD

WN (cm-1)	AVE (A.U.)	AD (A.U.)
924.191	0.0616408	0.000358
926.12	0.0787069	0.0004696
928.05	0.100422	0.0005742
929.979	0.128475	0.0007542
931.909	0.159985	0.0009388
933.838	0.195376	0.0011098
935.767	0.231839	0.0013059
937.697	0.267135	0.0015872
939.626	0.296089	0.0015695
941.555	0.318259	0.0017138
943.485	0.332351	0.0018017
945.414	0.340285	0.0016945
947.344	0.349709	0.0017036
949.273	0.369082	0.0017272
951.202	0.396161	0.0019891
953.132	0.41448	0.0019795
955.061	0.408673	0.0019515
956.991	0.427426	0.0017942
958.92	0.372653	0.001964
960.849	0.346901	0.0018591
962.779	0.34873	0.0018701
964.708	0.360313	0.0019484
966.637	0.362593	0.0017973
968.567	0.343256	0.0015494
970.496	0.307117	0.0013954
972.426	0.256881	0.0011686
974.355	0.203371	0.0008183
976.284	0.154385	0.0006239
978.214	0.113639	0.0004227
980.143	0.0822369	0.0001951
982.072	0.0588325	0.0001732
984.002	0.0418804	0.000092
985.931	0.0298259	0.0000178
987.861	0.0220606	0.0000438
989.79	0.0174435	0.0000536
991.719	0.0144037	0.00001
993.649	0.012061	0.0000329
995.578	0.0097834	0.0000336
997.508	0.0079449	0.0000516
999.437	0.0072909	9.97E-06
1001.36	0.0072552	0.0000214
1003.29	0.0080207	0.000037
1005.22	0.0083808	0.000013
1007.15	0.0084818	0.0000275
1009.08	0.0082059	0.0000204

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1011.01	0.0082465	0.0000559
1012.94	0.0089747	0.0000299
1014.87	0.0096898	0.0000554
1016.8	0.0107526	0.0000168
1018.73	0.0113064	0.0000436
1020.66	0.0118559	0.0000245
1022.59	0.012664	0.0000596
1024.51	0.0138327	0.0000579
1026.44	0.0171122	0.0000538
1028.37	0.0205988	8.68E-06
1030.3	0.0211819	0.0000665
1032.23	0.0265168	0.0000373
1034.16	0.0321979	0.0000285
1036.09	0.0339287	0.0000736
1038.02	0.0416371	0.0000572
1039.95	0.0491674	0.000087
1041.88	0.0588043	0.0001501
1043.81	0.070528	0.0002602
1045.74	0.0853796	0.0003301
1047.67	0.101518	0.0003896
1049.6	0.119634	0.0004899
1051.53	0.139552	0.0006148
1053.45	0.159703	0.0007331
1055.38	0.179029	0.0007928
1057.31	0.200962	0.0009023
1059.24	0.218354	0.0009415
1061.17	0.234622	0.0010683
1063.1	0.246007	0.0011453
1065.03	0.262466	0.0011873
1066.96	0.286895	0.0014306
1068.89	0.307007	0.0016088
1070.82	0.320811	0.0016054
1072.75	0.336254	0.0016516
1074.68	0.321044	0.0017068
1076.61	0.315764	0.001554
1078.54	0.319185	0.0016284
1080.47	0.313132	0.0014977
1082.39	0.310495	0.0015802
1084.32	0.299554	0.0013638
1086.25	0.297323	0.0014407
1088.18	0.291715	0.0013262
1090.11	0.281993	0.0012918
1092.04	0.260169	0.0012524
1093.97	0.238591	0.0010915
1095.9	0.217268	0.0010897

Isopropanol 30.01 Mole % 21.2 Torr PS030AV PS030AD

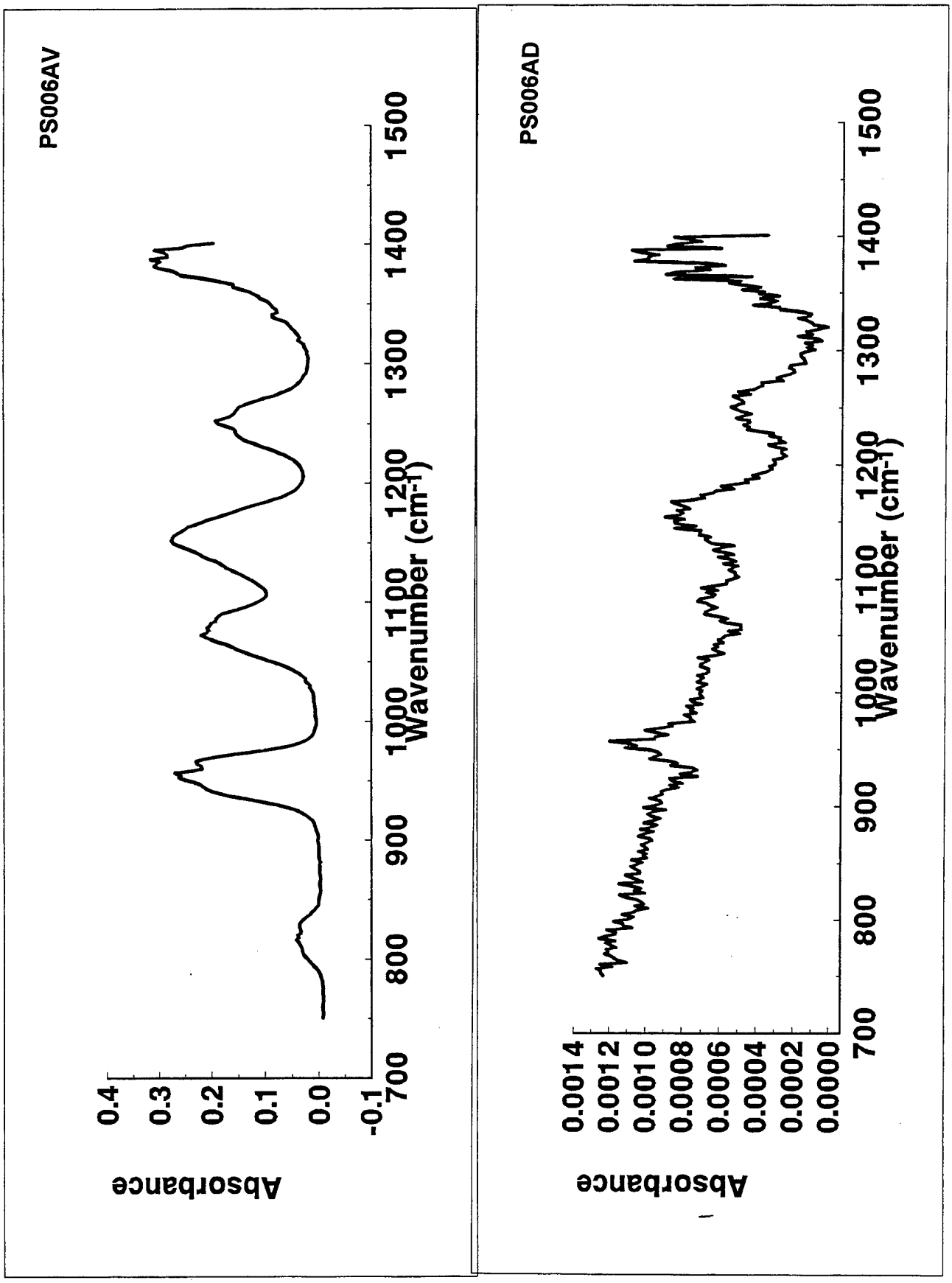
WN (cm-1)	AVE (A.U.)	AD (A.U.)
1097.83	0.198248	0.00088
1099.76	0.181681	0.0008198
1101.69	0.168811	0.0007289
1103.62	0.159867	0.0007399
1105.55	0.154781	0.0006177
1107.48	0.154158	0.0006756
1109.41	0.156929	0.0006938
1111.33	0.162434	0.0007312
1113.26	0.169918	0.0007757
1115.19	0.180258	0.0008115
1117.12	0.190053	0.000812
1119.05	0.201755	0.0008712
1120.98	0.21473	0.0009774
1122.91	0.227444	0.0011032
1124.84	0.24111	0.0010799
1126.77	0.255682	0.0011523
1128.7	0.270997	0.0012723
1130.63	0.27931	0.0013864
1132.56	0.290238	0.0013756
1134.49	0.301885	0.0015448
1136.42	0.322526	0.0015387
1138.34	0.339031	0.0016749
1140.27	0.348529	0.0018172
1142.2	0.360422	0.0018209
1144.13	0.378994	0.002025
1146.06	0.396222	0.0020617
1147.99	0.416015	0.002141
1149.92	0.429847	0.0023122
1151.85	0.434498	0.0023739
1153.78	0.43272	0.0022604
1155.71	0.429017	0.0022028
1157.64	0.419296	0.002173
1159.57	0.406087	0.0021793
1161.5	0.39422	0.0020444
1163.43	0.387185	0.0019968
1165.36	0.364663	0.0020103
1167.28	0.345731	0.0018959
1169.21	0.329514	0.0017277
1171.14	0.303376	0.0014911
1173.07	0.283176	0.0014955
1175	0.262255	0.0012714
1176.93	0.243094	0.0012551
1178.86	0.223521	0.0011335
1180.79	0.201112	0.0009317
1182.72	0.177088	0.0008329

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1184.65	0.154059	0.0007457
1186.58	0.131475	0.0005929
1188.51	0.11072	0.0005101
1190.44	0.0940056	0.0003974
1192.37	0.0808682	0.0003188
1194.3	0.070384	0.0003212
1196.22	0.0622707	0.0002681
1198.15	0.0559435	0.000238
1200.08	0.0508093	0.0002123
1202.01	0.0477344	0.0002313
1203.94	0.04563	0.000237
1205.87	0.0445576	0.0002299
1207.8	0.0449323	0.000262
1209.73	0.0463017	0.0002658
1211.66	0.0490522	0.0002355
1213.59	0.0523061	0.0002543
1215.52	0.0584278	0.000313
1217.45	0.0643838	0.0004114
1219.38	0.0732523	0.0004251
1221.31	0.0835279	0.0004206
1223.24	0.096086	0.0005562
1225.16	0.11139	0.0005756
1227.09	0.127653	0.0006908
1229.02	0.146159	0.0007753
1230.95	0.16578	0.0008796
1232.88	0.183789	0.001007
1234.81	0.201596	0.0011011
1236.74	0.21791	0.0011116
1238.67	0.229031	0.0011643
1240.6	0.236016	0.0011821
1242.53	0.240857	0.0011733
1244.46	0.241372	0.0010749
1246.39	0.251056	0.0011736
1248.32	0.27203	0.0013275
1250.25	0.291978	0.0013634
1252.17	0.298952	0.0014267
1254.1	0.280653	0.0014293
1256.03	0.260046	0.0012746
1257.96	0.247525	0.0012068
1259.89	0.242762	0.0010703
1261.82	0.238332	0.0011604
1263.75	0.233807	0.0010119
1265.68	0.218516	0.000912
1267.61	0.201287	0.0008666
1269.54	0.180488	0.0007776

Isopropanol 30.01 Mole % 21.2 Torr PS030AV
PS030AD

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1271.47	0.158892	0.0006838
1273.4	0.134123	0.0005115
1275.33	0.115856	0.000395
1277.26	0.098801	0.0004309
1279.19	0.0842862	0.0002521
1281.11	0.0732749	0.0002423
1283.04	0.0640895	0.0002514
1284.97	0.0571266	0.0002155
1286.9	0.0511379	0.0002348
1288.83	0.0464994	0.0001192
1290.76	0.041884	0.0001441
1292.69	0.0373225	0.0001154
1294.62	0.0350992	0.0000738
1296.55	0.0341788	0.0001387
1298.48	0.0325717	0.0001157
1300.41	0.0318873	0.0001393
1302.34	0.0313767	0.0000968
1304.27	0.0312871	0.0001439
1306.2	0.03171	0.0001052
1308.13	0.033859	0.0001036
1310.05	0.034001	0.0000943
1311.98	0.0373493	0.000139
1313.91	0.04083	0.0000487
1315.84	0.0426452	0.0001254
1317.77	0.0485084	0.0001378
1319.7	0.0558296	0.0000307
1321.63	0.0557025	0.0001266
1323.56	0.05975	0.0002067
1325.49	0.0654808	0.0002399
1327.42	0.071949	0.000176
1329.35	0.078943	0.0002906
1331.28	0.0851606	0.0002986
1333.21	0.0914104	0.000331
1335.14	0.0974483	0.0002935
1337.06	0.111535	0.0004101
1338.99	0.122845	0.0004784
1340.92	0.127098	0.0006322
1342.85	0.121932	0.0006094
1344.78	0.123894	0.0005838
1346.71	0.131836	0.000646
1348.64	0.136468	0.0007563
1350.57	0.142812	0.0006544
1352.5	0.152423	0.0007835
1354.43	0.167091	0.0008418
1356.36	0.17619	0.0008663

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1358.29	0.187382	0.0009599
1360.22	0.197667	0.0011404
1362.15	0.21825	0.0009923
1364.08	0.238559	0.0007552
1366	0.245811	0.0012395
1367.93	0.27198	0.0014781
1369.86	0.302915	0.0012476
1371.79	0.340189	0.0016918
1373.72	0.383782	0.0023402
1375.65	0.402402	0.0019997
1377.58	0.424559	0.0021068
1379.51	0.457845	0.002018
1381.44	0.480174	0.002438
1383.37	0.47344	0.0023585
1385.3	0.461045	0.0021385
1387.23	0.474273	0.0022453
1389.16	0.442969	0.0022464
1391.09	0.443553	0.0021848
1393.02	0.448579	0.0021182
1394.94	0.455979	0.0016575
1396.87	0.39309	0.001648
1398.8	0.364942	0.0011312
1400.73	0.302601	0.0013204


PS006AV
Absorbance
0.4
0.3
0.2
0.1
0.0
-0.1
700
800
900
1000
1100
1200
1300
1400
1500
Wavenumber (cm-1)
PS006AD
Absorbance
0.0014
0.0012
0.0010
0.0008
0.0006
0.0004
0.0002
0.0000
700
800
900
1000
1100
1200
1300
1400
1500
Wavenumber (cm-1)

Isopropanol 6.01 Mole % 14.1 Torr PS006AV
PS006AD

WN (cm-1)	AVE (A.U.)	AD (A.U.)
750.547	-0.0073173	0.0012336
752.476	-0.0077695	0.0012457
754.405	-0.0082475	0.0012472
756.335	-0.0078024	0.0012697
758.264	-0.0075836	0.0011833
760.194	-0.0072619	0.0012484
762.123	-0.0077157	0.0011021
764.052	-0.0084719	0.0011497
765.982	-0.0083727	0.0011684
767.911	-0.0082532	0.0011863
769.84	-0.0078233	0.0012214
771.77	-0.0075516	0.0012048
773.699	-0.0071863	0.001211
775.629	-0.0082344	0.0011617
777.558	-0.0076441	0.0011935
779.487	-0.0071379	0.0012162
781.417	-0.0060357	0.0011668
783.346	-0.0052648	0.0012532
785.275	-0.0040859	0.0012196
787.205	-0.0028005	0.0011664
789.134	-0.0007005	0.0011609
791.064	0.0024143	0.0012083
792.993	0.0061619	0.0010739
794.922	0.0100722	0.0011185
796.852	0.014319	0.0011232
798.781	0.0184	0.0011709
800.711	0.0222996	0.0010951
802.64	0.0266366	0.0010662
804.569	0.029039	0.0011206
806.499	0.0307985	0.0010634
808.428	0.0315381	0.0010484
810.357	0.0332582	0.0009866
812.287	0.0356396	0.0010536
814.216	0.0381166	0.0010079
816.146	0.0417516	0.0010257
818.075	0.0383575	0.0010498
820.004	0.0399054	0.0011054
821.934	0.0347406	0.0011384
823.863	0.0338002	0.0010052
825.792	0.0356074	0.0010605
827.722	0.0366645	0.0010256
829.651	0.0359917	0.0010774
831.581	0.0326564	0.0011432
833.51	0.0280145	0.0010162
835.439	0.0227312	0.001042

WN (cm-1)	AVE (A.U.)	AD (A.U.)
837.369	0.0174907	0.001075
839.298	0.0127184	0.0011064
841.228	0.0084122	0.0010303
843.157	0.0043798	0.0010319
845.086	0.0017671	0.0010571
847.016	-0.0000398	0.0010795
848.945	-0.0002297	0.0010489
850.874	-0.000678	0.0010191
852.804	-0.0012419	0.001074
854.733	-0.0025706	0.0009951
856.663	-0.0034293	0.0010114
858.592	-0.0033877	0.0009973
860.521	-0.0027029	0.0010352
862.451	-0.0020579	0.0009903
864.38	-0.002334	0.0010011
866.31	-0.002842	0.001018
868.239	-0.0032531	0.000991
870.168	-0.0027047	0.0009666
872.098	-0.0017932	0.0009787
874.027	-0.0014894	0.0010362
875.956	-0.0016361	0.0010052
877.886	-0.0021178	0.0009572
879.815	-0.0015212	0.0010243
881.745	-0.0026271	0.0009642
883.674	-0.0011672	0.000938
885.603	-0.0007067	0.0010058
887.533	-0.0004605	0.0009568
889.462	-0.0008505	0.0009225
891.392	-0.000404	0.0009687
893.321	-0.0007624	0.000984
895.25	0.0001747	0.0009605
897.18	0.0013498	0.0008927
899.109	0.0017128	0.0010089
901.038	0.0016368	0.0009331
902.968	0.0011074	0.0009128
904.897	0.001687	0.0009228
906.827	0.0032755	0.0009759
908.756	0.0048795	0.0009333
910.685	0.0065884	0.0009089
912.615	0.0074685	0.0009126
914.544	0.0089963	0.0008872
916.473	0.0117129	0.0008256
918.403	0.01688	0.0008672
920.332	0.0225242	0.000803
922.262	0.0293767	0.0008541

APPENDIX E

Isopropanol 6.01 Mole % 14.1 Torr PS006AV
PS006AD

WN (cm-1)	AVE (A.U.)	AD (A.U.)
924.191	0.0375196	0.0008669
926.12	0.047887	0.0007215
928.05	0.0614968	0.0008121
929.979	0.0795615	0.0007512
931.909	0.100155	0.0007245
933.838	0.122793	0.0007498
935.767	0.145855	0.0008617
937.697	0.168065	0.0008308
939.626	0.186173	0.0008709
941.555	0.200513	0.0009769
943.485	0.209905	0.0009492
945.414	0.214592	0.0009201
947.344	0.220469	0.0009322
949.273	0.232974	0.0009761
951.202	0.249478	0.0011128
953.132	0.261063	0.0010521
955.061	0.257627	0.0010959
956.991	0.269091	0.0011999
958.92	0.234528	0.0009546
960.849	0.217945	0.0009477
962.779	0.218968	0.0008799
964.708	0.227004	0.0009443
966.637	0.22814	0.0010031
968.567	0.215994	0.0009211
970.496	0.192791	0.0008562
972.426	0.160814	0.0008731
974.355	0.126824	0.0007406
976.284	0.096162	0.0007581
978.214	0.0706628	0.0007592
980.143	0.0510833	0.0007902
982.072	0.0363456	0.0007315
984.002	0.0256256	0.0007585
985.931	0.0177195	0.0007471
987.861	0.0129786	0.0007757
989.79	0.0104888	0.0007023
991.719	0.0087205	0.0007455
993.649	0.0071952	0.0007579
995.578	0.0059768	0.000695
997.508	0.0047204	0.0007064
999.437	0.0043997	0.0007102
1001.36	0.0048077	0.0006994
1003.29	0.0055131	0.0007248
1005.22	0.0060697	0.0006955
1007.15	0.0063302	0.0006748
1009.08	0.006238	0.0007223

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1011.01	0.0063073	0.0007057
1012.94	0.0072811	0.000693
1014.87	0.0081291	0.00072
1016.8	0.0089346	0.0006733
1018.73	0.0093679	0.0006636
1020.66	0.0094174	0.0006655
1022.59	0.009716	0.000706
1024.51	0.0107979	0.000704
1026.44	0.0137392	0.000681
1028.37	0.0164925	0.0006614
1030.3	0.0160453	0.0007177
1032.23	0.0204671	0.0006262
1034.16	0.0251128	0.0005821
1036.09	0.0249166	0.0006206
1038.02	0.0306554	0.000641
1039.95	0.0355531	0.0006134
1041.88	0.0423503	0.0006293
1043.81	0.0499956	0.0005841
1045.74	0.0594529	0.0006097
1047.67	0.0699091	0.0005839
1049.6	0.0815921	0.0005718
1051.53	0.0946413	0.0004956
1053.45	0.1074	0.0005526
1055.38	0.119962	0.0004871
1057.31	0.133796	0.0004891
1059.24	0.144178	0.000489
1061.17	0.154218	0.0005688
1063.1	0.161783	0.0006
1065.03	0.172988	0.000562
1066.96	0.18894	0.0006116
1068.89	0.200132	0.0006838
1070.82	0.208803	0.0006825
1072.75	0.218558	0.0006547
1074.68	0.209387	0.0006196
1076.61	0.205434	0.0006607
1078.54	0.207407	0.000673
1080.47	0.202733	0.0007208
1082.39	0.200328	0.0007106
1084.32	0.192981	0.0006406
1086.25	0.191051	0.0006301
1088.18	0.187308	0.0006743
1090.11	0.180801	0.0006168
1092.04	0.165923	0.0007028
1093.97	0.151798	0.0006226
1095.9	0.13809	0.0005671

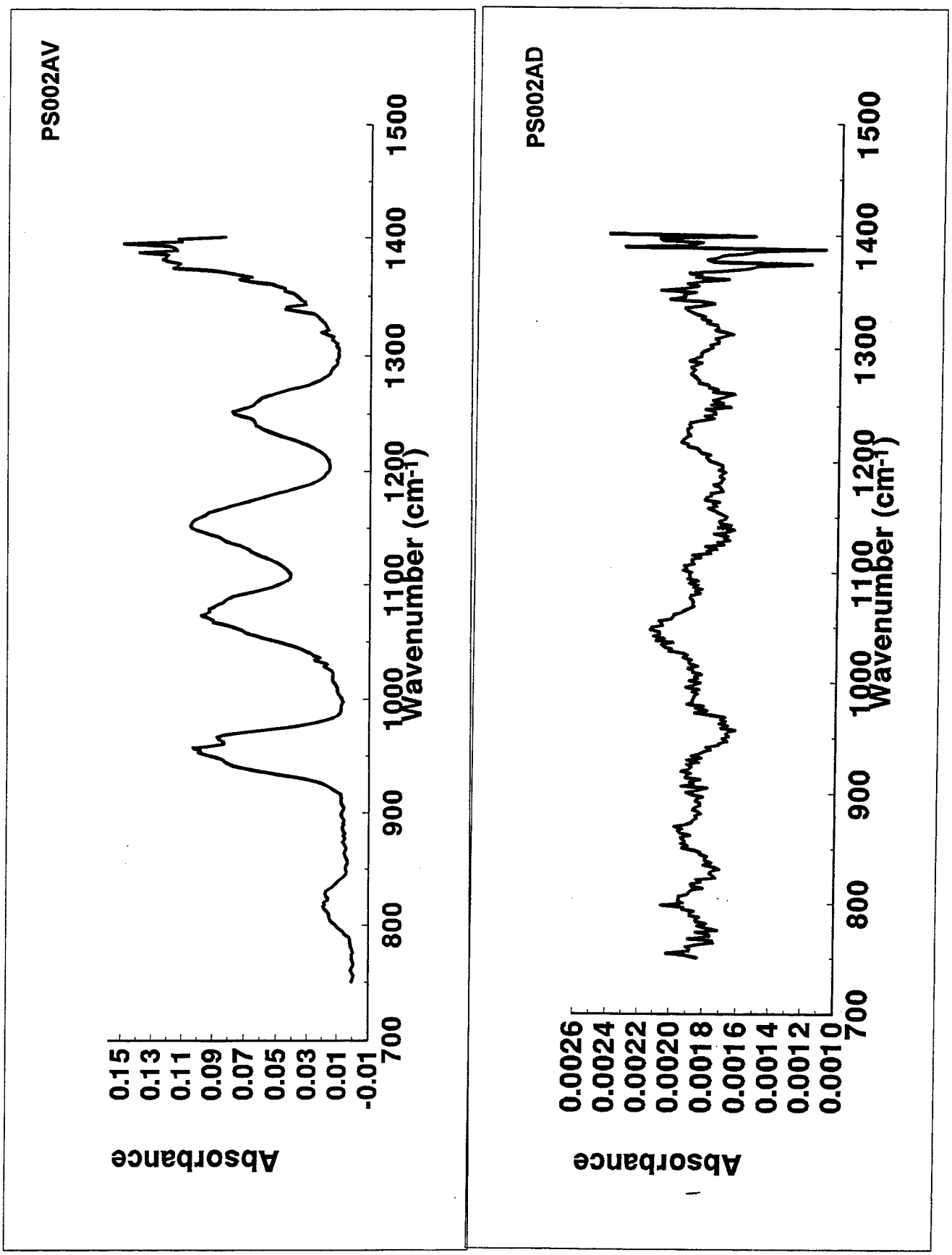
Isopropanol 6.01 Mole % 14.1 Torr PS006AV PS006AD

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1097.83	0.125847	0.0005663
1099.76	0.115447	0.0005335
1101.69	0.107404	0.0005039
1103.62	0.101509	0.0005206
1105.55	0.0980371	0.000522
1107.48	0.0976149	0.0005531
1109.41	0.0990706	0.000535
1111.33	0.102538	0.0005098
1113.26	0.107288	0.0005821
1115.19	0.11359	0.0005197
1117.12	0.11955	0.0005435
1119.05	0.127062	0.0006103
1120.98	0.135364	0.0005301
1122.91	0.143226	0.0005855
1124.84	0.152109	0.0006384
1126.77	0.161289	0.0006044
1128.7	0.170975	0.0005298
1130.63	0.17622	0.000646
1132.56	0.183134	0.0006694
1134.49	0.191104	0.0006855
1136.42	0.204439	0.0006571
1138.34	0.21456	0.0007161
1140.27	0.220693	0.0007119
1142.2	0.228505	0.0007094
1144.13	0.240486	0.0008449
1146.06	0.25145	0.0007359
1147.99	0.26407	0.0008433
1149.92	0.272589	0.0008521
1151.85	0.275054	0.0007978
1153.78	0.273617	0.0008984
1155.71	0.27102	0.0008202
1157.64	0.264883	0.0008062
1159.57	0.256732	0.0008332
1161.5	0.248883	0.0007691
1163.43	0.244465	0.0007959
1165.36	0.230205	0.0008324
1167.28	0.21806	0.000864
1169.21	0.207359	0.0007502
1171.14	0.191081	0.0006901
1173.07	0.178235	0.0007076
1175	0.165511	0.0006428
1176.93	0.152783	0.0006278
1178.86	0.140189	0.0005321
1180.79	0.126337	0.0005969
1182.72	0.111136	0.0005283

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1184.65	0.0966375	0.0004524
1186.58	0.0823399	0.0004665
1188.51	0.0692949	0.000394
1190.44	0.058928	0.0004267
1192.37	0.0507156	0.0003837
1194.3	0.0440547	0.0003443
1196.22	0.0391614	0.000323
1198.15	0.0354198	0.0003343
1200.08	0.0322973	0.0003061
1202.01	0.0302431	0.0003059
1203.94	0.0290859	0.0003145
1205.87	0.0285814	0.0002637
1207.8	0.0291431	0.0002465
1209.73	0.0299849	0.0002662
1211.66	0.0320874	0.0002701
1213.59	0.0338967	0.0002481
1215.52	0.0380134	0.0003025
1217.45	0.0421311	0.0003391
1219.38	0.0479502	0.0002531
1221.31	0.0546948	0.000283
1223.24	0.0625747	0.0002793
1225.16	0.0730116	0.0003341
1227.09	0.0829564	0.0003153
1229.02	0.0948063	0.0004017
1230.95	0.107334	0.0004587
1232.88	0.118409	0.000449
1234.81	0.129657	0.0004759
1236.74	0.139967	0.000447
1238.67	0.146933	0.0004486
1240.6	0.151444	0.0005181
1242.53	0.154548	0.0004826
1244.46	0.155187	0.0004385
1246.39	0.16092	0.0004918
1248.32	0.174457	0.0005176
1250.25	0.187102	0.0005447
1252.17	0.19122	0.0005126
1254.1	0.179123	0.0004794
1256.03	0.166115	0.0004868
1257.96	0.158047	0.0005067
1259.89	0.154984	0.000535
1261.82	0.151554	0.0004431
1263.75	0.148487	0.000507
1265.68	0.138441	0.0004227
1267.61	0.127303	0.0004003
1269.54	0.114429	0.0003765

Isopropanol 6.01 Mole % 14.1 Torr PS006AV PS006AD

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1271.47	0.100548	0.0003814
1273.4	0.0840176	0.000267
1275.33	0.0723123	0.0002979
1277.26	0.0614883	0.000269
1279.19	0.0522288	0.0002233
1281.11	0.0454336	0.0002018
1283.04	0.0397466	0.0002054
1284.97	0.0350961	0.0002296
1286.9	0.0316921	0.0002221
1288.83	0.0290582	0.000141
1290.76	0.0259028	0.0001464
1292.69	0.0225107	0.0001512
1294.62	0.021251	0.0001639
1296.55	0.0208773	0.0001679
1298.48	0.0200155	0.0001404
1300.41	0.0195854	0.0000906
1302.34	0.019521	0.0001321
1304.27	0.0189932	0.0001041
1306.2	0.0194175	0.0001412
1308.13	0.0211876	0.0000517
1310.05	0.0210052	0.0000739
1311.98	0.023722	0.0001793
1313.91	0.0263349	0.000104
1315.84	0.0269484	0.0001364
1317.77	0.0321601	0.0000882
1319.7	0.0376674	0.0000194
1321.63	0.0355089	0.0000936
1323.56	0.0380788	0.0001083
1325.49	0.0415339	0.0001332
1327.42	0.0452566	0.0001792
1329.35	0.0497631	0.0001184
1331.28	0.0533707	0.0001131
1333.21	0.0573943	0.0001675
1335.14	0.0617537	0.0002807
1337.06	0.0747807	0.0002871
1338.99	0.0847818	0.0004264
1340.92	0.0862766	0.0003348
1342.85	0.0768341	0.0002998
1344.78	0.0784886	0.0003891
1346.71	0.0837366	0.0002892
1348.64	0.0871775	0.000396
1350.57	0.0908706	0.0003699
1352.5	0.0970866	0.000489
1354.43	0.107572	0.0003911
1356.36	0.112241	0.0004699
1358.29	0.120386	0.0005606
1360.22	0.127875	0.0004997
1362.15	0.145229	0.0008595
1364.08	0.158127	0.0004421
1366	0.158469	0.0009009
1367.93	0.176739	0.0008513
1369.86	0.197345	0.0006655
1371.79	0.220774	0.0007448
1373.72	0.257065	0.0005857
1375.65	0.264017	0.0006833
1377.58	0.274299	0.0010734
1379.51	0.295455	0.0009987
1381.44	0.307966	0.0009995
1383.37	0.304307	0.0009423
1385.3	0.296487	0.0010335
1387.23	0.315215	0.0010879
1389.16	0.283185	0.0006056
1391.09	0.284167	0.0008936
1393.02	0.288902	0.0008453
1394.94	0.306764	0.0007139
1396.87	0.255021	0.0007676
1398.8	0.243288	0.0008565
1400.73	0.195559	0.0003509


PS002AV
Absorbance
0.15
0.13
0.11
0.09
0.07
0.05
0.03
0.01
-0.01
700
800
900
1000
1100
1200
1300
1400
1500
Wavenumber (cm-1)
PS002AD
Absorbance
0.0026
0.0024
0.0022
0.0020
0.0018
0.0016
0.0014
0.0012
0.0010
700
800
900
1000
1100
1200
1300
1400
1500
Wavenumber (cm-1)

Isopropanol 1.91 Mole % 7.4 Torr PS002AV PS002AD

WN (cm-1)	AVE (A.U.)	AD (A.U.)
750.547	0.000348	0.0018374
752.476	6.49E-06	0.0018987
754.405	-0.0005579	0.0020149
756.335	-0.0004974	0.0018824
758.264	0.0003617	0.001879
760.194	0.0010049	0.0018967
762.123	0.000538	0.001836
764.052	-0.000396	0.0017381
765.982	-0.000519	0.0017438
767.911	-0.0001773	0.001884
769.84	0.0003466	0.0017589
771.77	0.000186	0.0017624
773.699	0.0005949	0.0018372
775.629	-0.0003229	0.001713
777.558	0.0001871	0.001789
779.487	0.0004964	0.0018297
781.417	0.0010877	0.001783
783.346	0.0013209	0.001839
785.275	0.0014558	0.0018419
787.205	0.0016749	0.0018243
789.134	0.0021722	0.0018758
791.064	0.0042212	0.0018769
792.993	0.005836	0.0018583
794.922	0.0069561	0.0019226
796.852	0.0086109	0.0019195
798.781	0.0101453	0.0020497
800.711	0.0114227	0.0019207
802.64	0.0134061	0.0019486
804.569	0.0146293	0.0019456
806.499	0.0151439	0.0019452
808.428	0.0153528	0.0018941
810.357	0.0158754	0.0018846
812.287	0.0169545	0.0018715
814.216	0.0183005	0.0018054
816.146	0.0193043	0.0018661
818.075	0.0182276	0.0018707
820.004	0.0187108	0.0018167
821.934	0.0164061	0.0018392
823.863	0.0161507	0.0017285
825.792	0.0172981	0.0017452
827.722	0.0178927	0.0017615
829.651	0.0175299	0.0017531
831.581	0.016078	0.0017086
833.51	0.0137542	0.0017378
835.439	0.012199	0.0017975

WN (cm-1)	AVE (A.U.)	AD (A.U.)
837.369	0.0104931	0.0017539
839.298	0.0092165	0.0017891
841.228	0.0075595	0.0017924
843.157	0.005519	0.0017842
845.086	0.0046596	0.0018201
847.016	0.003997	0.0018212
848.945	0.0046255	0.0018576
850.874	0.00468	0.0019275
852.804	0.0043981	0.0018972
854.733	0.0034733	0.0019326
856.663	0.0034001	0.0019147
858.592	0.0037909	0.0019245
860.521	0.004628	0.0019369
862.451	0.0051705	0.0018846
864.38	0.0054261	0.0019429
866.31	0.0047847	0.0019541
868.239	0.0044994	0.0019342
870.168	0.0048939	0.0019756
872.098	0.0056317	0.0019093
874.027	0.0062925	0.0018749
875.956	0.0056583	0.001864
877.886	0.0051006	0.0018464
879.815	0.0061507	0.0018496
881.745	0.0050079	0.0018218
883.674	0.0061269	0.001838
885.603	0.00653	0.0018638
887.533	0.006684	0.0018514
889.462	0.0060264	0.0018255
891.392	0.0064141	0.0018256
893.321	0.005862	0.001848
895.25	0.00647	0.0018441
897.18	0.0074276	0.0018095
899.109	0.0075214	0.0018646
901.038	0.0071012	0.0019055
902.968	0.0061528	0.0018376
904.897	0.0059815	0.0017857
906.827	0.0067086	0.0019347
908.756	0.0076376	0.0018646
910.685	0.0077679	0.0018861
912.615	0.0075525	0.00183
914.544	0.0076296	0.0019125
916.473	0.0079354	0.0019064
918.403	0.0101663	0.0018847
920.332	0.0125033	0.0019359
922.262	0.015069	0.0018914

Isopropanol 1.91 Mole % 7.4 Torr PS002AV PS002AD

WN (cm-1)	AVE (A.U.)	AD (A.U.)
924.191	0.01745	0.0018809
926.12	0.0206901	0.0019037
928.05	0.0252503	0.0018383
929.979	0.0321031	0.0019032
931.909	0.0402135	0.0018237
933.838	0.0488432	0.0018781
935.767	0.0572081	0.0018293
937.697	0.0649559	0.0018073
939.626	0.0714757	0.0017665
941.555	0.0768355	0.0017903
943.485	0.0806599	0.001725
945.414	0.0825742	0.0017119
947.344	0.0845731	0.0016692
949.273	0.0887258	0.0016942
951.202	0.0946917	0.0016607
953.132	0.0991927	0.0016726
955.061	0.09815	0.0016646
956.991	0.10268	0.0016211
958.92	0.0895183	0.0016998
960.849	0.0831003	0.0016661
962.779	0.0833487	0.0017122
964.708	0.0862772	0.001679
966.637	0.0870628	0.0017035
968.567	0.082934	0.001685
970.496	0.0740933	0.0017634
972.426	0.0619893	0.0018591
974.355	0.0491116	0.0017917
976.284	0.0379805	0.001855
978.214	0.0291087	0.0018121
980.143	0.0224679	0.0019064
982.072	0.0170969	0.0018775
984.002	0.0129294	0.0018767
985.931	0.0098376	0.0018693
987.861	0.0085226	0.0018654
989.79	0.0080123	0.0018497
991.719	0.0079785	0.0018763
993.649	0.0078209	0.0018422
995.578	0.0075117	0.0019166
997.508	0.0069961	0.0018752
999.437	0.0072347	0.0018346
1001.36	0.0080457	0.0018945
1003.29	0.0090947	0.0018496
1005.22	0.010011	0.001867
1007.15	0.0104896	0.0018303
1009.08	0.0104604	0.0018729

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1011.01	0.0109943	0.0018779
1012.94	0.0117096	0.0019031
1014.87	0.0129351	0.0018518
1016.8	0.0137929	0.0018912
1018.73	0.0137413	0.0019008
1020.66	0.0134644	0.0018909
1022.59	0.0135541	0.0019346
1024.51	0.014034	0.001912
1026.44	0.0165713	0.0019387
1028.37	0.0192604	0.0020214
1030.3	0.0172741	0.0020094
1032.23	0.0213272	0.0020502
1034.16	0.0253444	0.0020669
1036.09	0.0223571	0.0020021
1038.02	0.0264893	0.0021
1039.95	0.0281982	0.0020521
1041.88	0.0316528	0.0021153
1043.81	0.0351371	0.0020793
1045.74	0.0391574	0.0020826
1047.67	0.0436337	0.0021371
1049.6	0.0487564	0.0021295
1051.53	0.0539484	0.0020658
1053.45	0.0589884	0.0020714
1055.38	0.0635355	0.0020836
1057.31	0.0692732	0.0020128
1059.24	0.0713559	0.0020015
1061.17	0.0743252	0.0019942
1063.1	0.0777451	0.0019514
1065.03	0.0830328	0.0019341
1066.96	0.0899787	0.0019026
1068.89	0.0904434	0.0018784
1070.82	0.0933821	0.0018829
1072.75	0.0975783	0.0018814
1074.68	0.0945793	0.0018873
1076.61	0.0926855	0.0018972
1078.54	0.0927641	0.0018922
1080.47	0.0896214	0.0018424
1082.39	0.087595	0.0018672
1084.32	0.0837044	0.0018328
1086.25	0.08237	0.0018759
1088.18	0.0800205	0.0018556
1090.11	0.0771123	0.001901
1092.04	0.0694076	0.001855
1093.97	0.0639614	0.0019124
1095.9	0.0580475	0.0019

Isopropanol 1.91 Mole % 7.4 Torr PS002AV PS002AD

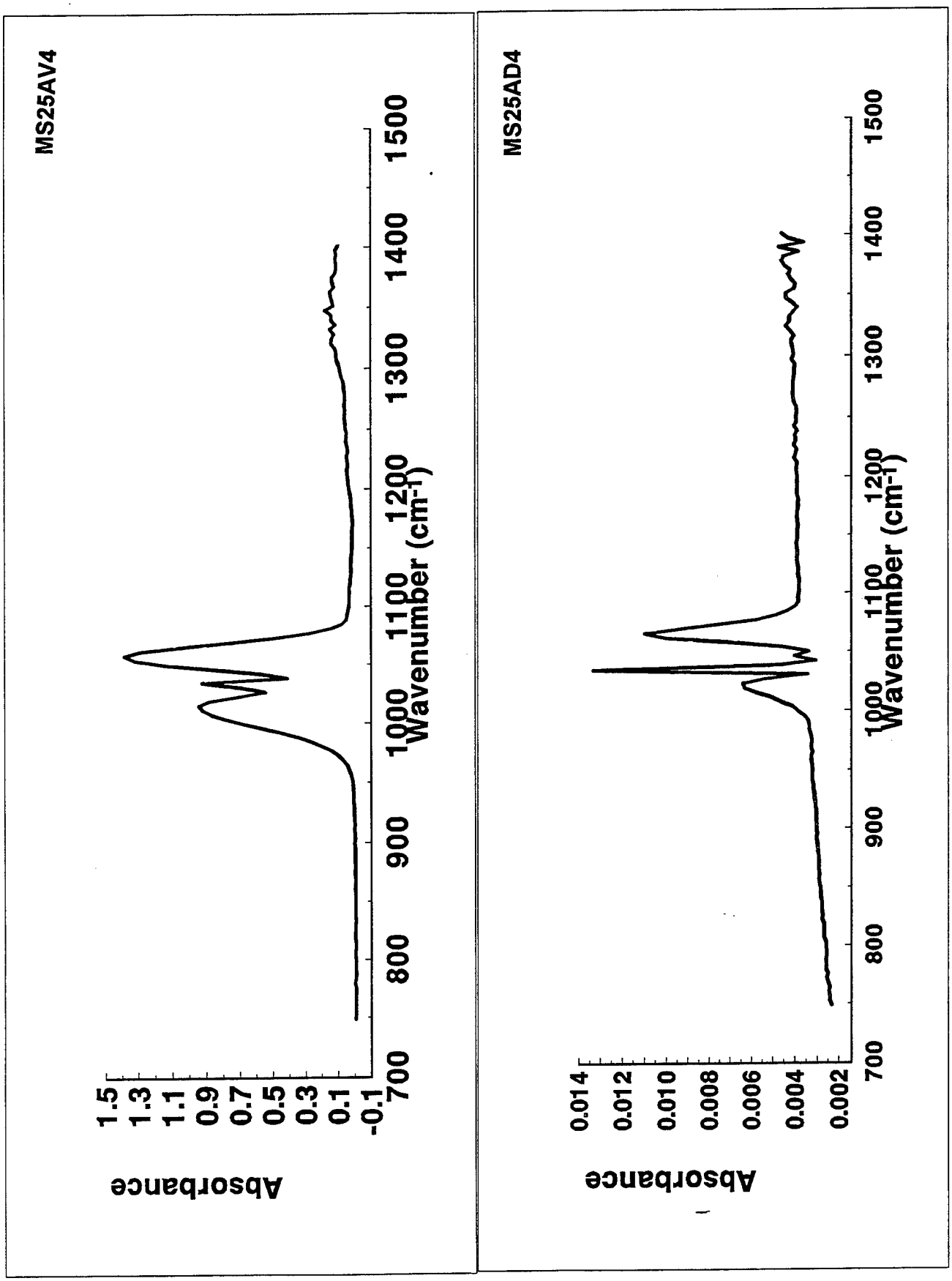
WN (cm-1)	AVE (A.U.)	AD (A.U.)	WN (cm-1)	AVE (A.U.)	AD (A.U.)
1097.83	0.0537548	0.001903	1184.65	0.0396246	0.0017108
1099.76	0.0496571	0.0018952	1186.58	0.0345764	0.001729
1101.69	0.046605	0.0019404	1188.51	0.029632	0.0017179
1103.62	0.0438454	0.0019226	1190.44	0.0261873	0.001701
1105.55	0.0420999	0.0019345	1192.37	0.0231585	0.0017318
1107.48	0.0418645	0.0018811	1194.3	0.0209475	0.0017133
1109.41	0.0418293	0.0018893	1196.22	0.0194535	0.0017167
1111.33	0.0430775	0.0018909	1198.15	0.0184702	0.001745
1113.26	0.044135	0.0018416	1200.08	0.0169855	0.0017882
1115.19	0.0462273	0.0018853	1202.01	0.0163483	0.0018023
1117.12	0.0478769	0.0017816	1203.94	0.0160396	0.0018133
1119.05	0.050221	0.0018016	1205.87	0.016021	0.0017917
1120.98	0.053525	0.0017457	1207.8	0.0164901	0.0018466
1122.91	0.0564064	0.0018073	1209.73	0.0168398	0.0018558
1124.84	0.0599476	0.0017048	1211.66	0.0179492	0.0018682
1126.77	0.0630367	0.001735	1213.59	0.0188398	0.0019223
1128.7	0.0664937	0.0016694	1215.52	0.020589	0.0019249
1130.63	0.0680421	0.0016995	1217.45	0.0222943	0.0019603
1132.56	0.0706104	0.0016786	1219.38	0.0248547	0.0019532
1134.49	0.0739312	0.001755	1221.31	0.0275908	0.0019353
1136.42	0.0790199	0.001671	1223.24	0.030864	0.0019108
1138.34	0.0825564	0.0016416	1225.16	0.0349693	0.0019224
1140.27	0.0848969	0.0017336	1227.09	0.0383063	0.0019254
1142.2	0.0874902	0.0016599	1229.02	0.0428318	0.0019267
1144.13	0.0921594	0.0017226	1230.95	0.0476081	0.0019075
1146.06	0.0964273	0.0017264	1232.88	0.0516954	0.0019146
1147.99	0.101175	0.0016951	1234.81	0.0554026	0.0019102
1149.92	0.104415	0.0016874	1236.74	0.0590756	0.0018354
1151.85	0.10513	0.0017125	1238.67	0.0613057	0.0017715
1153.78	0.104716	0.0017398	1240.6	0.0639903	0.0018217
1155.71	0.103801	0.0017602	1242.53	0.0647561	0.0017618
1157.64	0.101444	0.0017942	1244.46	0.0650606	0.0017641
1159.57	0.0983018	0.0017479	1246.39	0.0669756	0.0018187
1161.5	0.0953257	0.0017685	1248.32	0.0723403	0.0016728
1163.43	0.0936713	0.001736	1250.25	0.0774316	0.001786
1165.36	0.0883484	0.0018146	1252.17	0.0782515	0.0017165
1167.28	0.0837207	0.0018073	1254.1	0.073795	0.0017741
1169.21	0.0796727	0.0017793	1256.03	0.0684521	0.0017338
1171.14	0.0739263	0.001782	1257.96	0.0653767	0.0016972
1173.07	0.0690823	0.0017143	1259.89	0.0643325	0.0016503
1175	0.0649385	0.0017205	1261.82	0.0623533	0.0017753
1176.93	0.059712	0.0017277	1263.75	0.0607806	0.001751
1178.86	0.0550859	0.0017637	1265.68	0.0569307	0.0018006
1180.79	0.0501776	0.0017225	1267.61	0.0525477	0.0018061
1182.72	0.0447777	0.0017183	1269.54	0.0478264	0.0018614

Isopropanol 1.91 Mole % 7.4 Torr PS002AV PS002AD

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1271.47	0.0426656	0.0018634
1273.4	0.0352698	0.0018772
1275.33	0.0307178	0.001891
1277.26	0.0265524	0.001909
1279.19	0.0227922	0.0018994
1281.11	0.0205287	0.0018908
1283.04	0.0179456	0.0019072
1284.97	0.0161579	0.0018844
1286.9	0.0156819	0.0018519
1288.83	0.0148979	0.0019186
1290.76	0.0134722	0.0018885
1292.69	0.0115487	0.0018535
1294.62	0.0112298	0.0018514
1296.55	0.0116574	0.0018415
1298.48	0.01069	0.0018073
1300.41	0.0104688	0.0017859
1302.34	0.0105155	0.0017971
1304.27	0.0102239	0.0017501
1306.2	0.0106054	0.0017492
1308.13	0.0120032	0.0017631
1310.05	0.011388	0.001721
1311.98	0.0132019	0.001663
1313.91	0.015104	0.0017132
1315.84	0.0141024	0.0017677
1317.77	0.0178676	0.001752
1319.7	0.0219712	0.0017604
1321.63	0.0174386	0.0018164
1323.56	0.0182461	0.0018012
1325.49	0.0191137	0.001849
1327.42	0.0202669	0.0018345
1329.35	0.021896	0.0018802
1331.28	0.0233528	0.0019074
1333.21	0.0249143	0.0019349
1335.14	0.0271731	0.001948
1337.06	0.037995	0.0018431
1338.99	0.045534	0.0017788
1340.92	0.044821	0.001855
1342.85	0.0327698	0.0020398
1344.78	0.033286	0.0019493
1346.71	0.0357558	0.0019614
1348.64	0.0373981	0.0018909
1350.57	0.0390313	0.0020965
1352.5	0.0409829	0.0019375
1354.43	0.0461536	0.0018731
1356.36	0.0463714	0.0019345
1358.29	0.0510708	0.0018493
1360.22	0.0546446	0.0016951
1362.15	0.0670664	0.0018861
1364.08	0.0742689	0.0018568
1366	0.06727	0.0019251
1367.93	0.0752934	0.0017122
1369.86	0.083048	0.0015669
1371.79	0.0928044	0.0015162
1373.72	0.117063	0.0011858
1375.65	0.114611	0.0017785
1377.58	0.112748	0.0018187
1379.51	0.120487	0.0017571
1381.44	0.123714	0.0017279
1383.37	0.122131	0.001588
1385.3	0.120764	0.0015155
1387.23	0.139156	0.0010978
1389.16	0.115025	0.0023235
1391.09	0.116183	0.0018964
1393.02	0.120645	0.0018517
1394.94	0.14932	0.002093
1396.87	0.111841	0.0021069
1398.8	0.113777	0.001536
1400.73	0.0835726	0.0024211

APPENDIX F

METHANOL ABSORBANCE SPECTRA


MS25AV4
Absorbance
1.5
1.3
1.1
0.9
0.7
0.5
0.3
0.1
-0.1
700
800
900
1000
1100
1200
1300
1400
1500
Wavenumber (cm-1)
MS25AD4
Absorbance
0.014
0.012
0.010
0.008
0.006
0.004
0.002
700
800
900
1000
1100
1200
1300
1400
1500
Wavenumber (cm-1)

Methanol 24.97 Mole % 38.6 Torr MS25AV4
MS25AD4

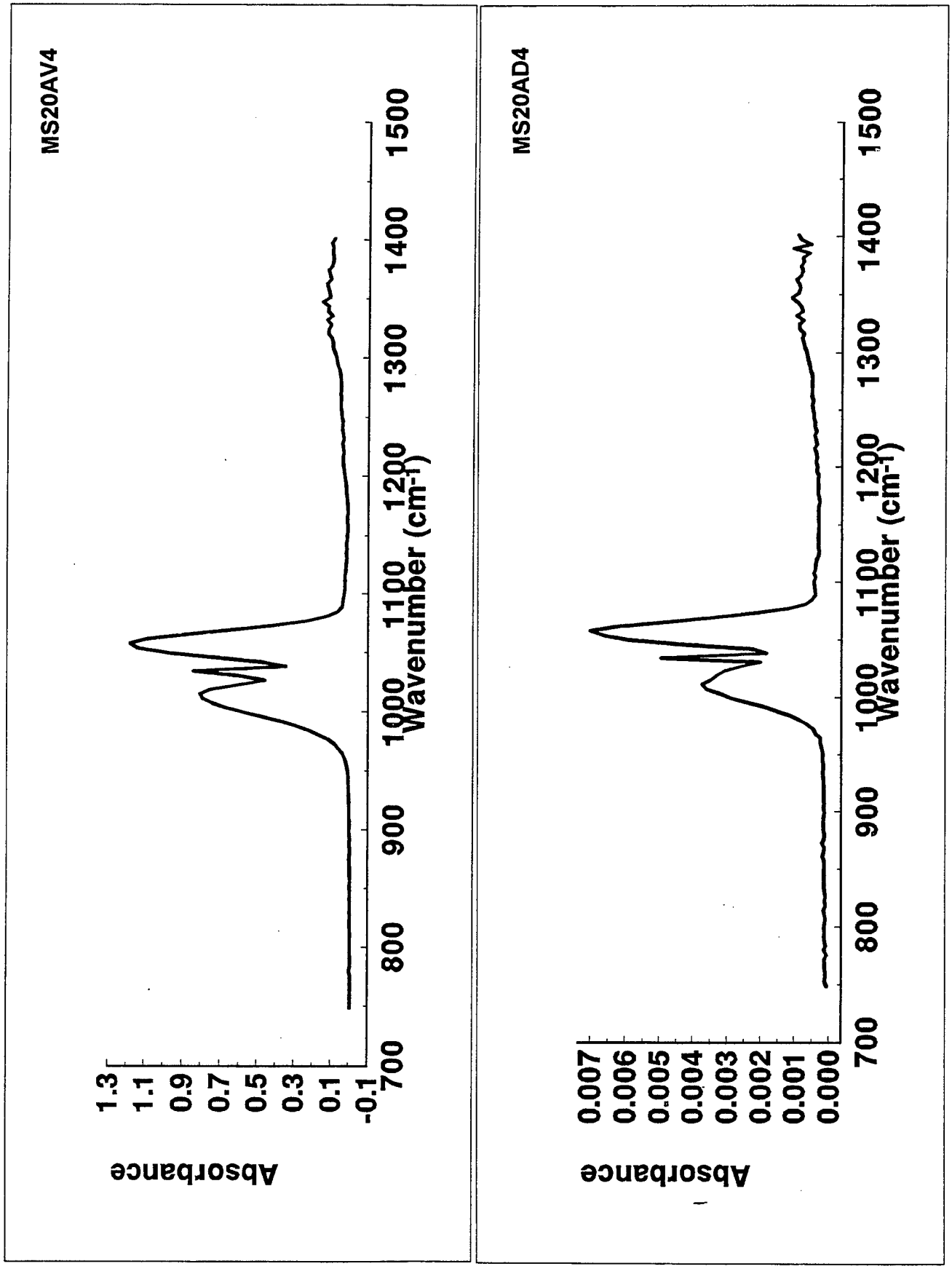
WN (cm-1)	AVE (A.U.)	AD (A.U.)
748.8	-0.0085037	0.002331
752.66	-0.0095483	0.0024139
756.519	-0.0099407	0.0024234
760.379	-0.0093033	0.0024493
764.239	-0.0101887	0.0024205
768.099	-0.0102677	0.0024859
771.958	-0.0102165	0.002549
775.818	-0.0099682	0.0025044
779.678	-0.0037024	0.0025889
783.538	-0.0102288	0.0025755
787.397	-0.010938	0.0025876
791.257	-0.0099967	0.0025586
795.117	-0.0091031	0.0025657
798.977	-0.0090218	0.0025793
802.836	-0.0088933	0.0025925
806.696	-0.0079939	0.0026664
810.556	-0.0097857	0.0026657
814.416	-0.0090411	0.0026661
818.275	-0.0067025	0.0026757
822.135	-0.0068835	0.0027505
825.995	-0.0080341	0.0027433
829.854	-0.0076107	0.0027658
833.714	-0.0091175	0.0027769
837.574	-0.0081357	0.0027721
841.434	-0.0076082	0.0028255
845.293	-0.0079973	0.0028291
849.153	-0.0076408	0.0028409
853.013	-0.007526	0.0028839
856.873	-0.0082289	0.0029023
860.732	-0.0061368	0.0028891
864.592	-0.0074064	0.0029029
868.452	-0.0076757	0.0029098
872.312	-0.0057475	0.0029205
876.171	-0.0060273	0.0029286
880.031	-0.0073138	0.0029429
883.891	-0.0069586	0.0029656
887.751	-0.0059655	0.0029778
891.61	-0.006782	0.0030108
895.47	-0.0056318	0.0029849
899.33	-0.0027958	0.0030098
903.19	-0.0058211	0.003007
907.049	-0.0044768	0.0030284
910.909	-0.0032717	0.0030281
914.769	-0.0034973	0.0030332
918.629	-0.0027229	0.0030624

WN (cm-1)	AVE (A.U.)	AD (A.U.)
922.488	-0.0014401	0.0030634
926.348	-0.000819	0.0031119
930.208	0.0000435	0.0031103
934.068	0.0021851	0.0031606
937.927	0.0021474	0.0031489
941.787	0.0038809	0.0032082
945.647	0.0049989	0.0032172
949.506	0.0066044	0.0031943
953.366	0.0122915	0.0032086
957.226	0.019077	0.0032347
961.086	0.0301306	0.0032483
964.945	0.0424862	0.0032008
968.805	0.0677611	0.0032504
972.665	0.0945403	0.0032321
976.525	0.135066	0.0032252
980.384	0.192084	0.0032664
984.244	0.257787	0.003343
988.104	0.341676	0.0033405
991.964	0.444726	0.0034008
995.823	0.558678	0.0035679
999.683	0.674059	0.0038477
1003.54	0.783005	0.0041058
1007.4	0.867177	0.0046045
1011.26	0.923109	0.0050492
1015.12	0.94072	0.0057193
1018.98	0.883218	0.0062854
1022.84	0.708741	0.0063576
1026.7	0.542046	0.0053604
1030.56	0.695072	0.0034275
1034.42	0.924129	0.0133001
1038.28	0.409728	0.0046299
1042.14	0.565634	0.0030587
1046	0.859856	0.0039861
1049.86	1.13521	0.0033695
1053.72	1.319	0.0045503
1057.58	1.38307	0.0068819
1061.43	1.29625	0.0099643
1065.29	1.04665	0.0109527
1069.15	0.749084	0.0093536
1073.01	0.482078	0.0074739
1076.87	0.265461	0.0057482
1080.73	0.14057	0.0048483
1084.59	0.0739485	0.0042936
1088.45	0.0453892	0.0039639
1092.31	0.0408368	0.0038151

Methanol 24.97 Mole % 38.6 Torr MS25AV4
MS25AD4

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1096.17	0.0368172	0.0038438
1100.03	0.0311618	0.0038117
1103.89	0.0283977	0.00379
1107.75	0.0288986	0.0037997
1111.61	0.0275322	0.0037826
1115.47	0.0293072	0.0038465
1119.33	0.0213738	0.0038417
1123.19	0.0211721	0.0038552
1127.05	0.0181085	0.003887
1130.91	0.0158591	0.0038862
1134.77	0.0174923	0.0038633
1138.63	0.0152013	0.0038978
1142.49	0.0163048	0.0039036
1146.35	0.0123323	0.0038715
1150.21	0.0105913	0.0038716
1154.07	0.009517	0.0038675
1157.93	0.009747	0.0038541
1161.79	0.0104933	0.0038583
1165.65	0.0108145	0.0038981
1169.51	0.0075363	0.0038771
1173.37	0.0083924	0.0038445
1177.23	0.0104877	0.0038509
1181.09	0.0125445	0.0038411
1184.95	0.015879	0.0038951
1188.81	0.0183101	0.0038976
1192.67	0.0201549	0.0038964
1196.53	0.0255168	0.0038883
1200.39	0.029076	0.0038842
1204.25	0.0334095	0.0039148
1208.11	0.0364507	0.0039264
1211.96	0.0405184	0.0038786
1215.82	0.0416814	0.0040197
1219.68	0.0361595	0.0039606
1223.54	0.039944	0.0039011
1227.4	0.043725	0.0040305
1231.26	0.0360873	0.0039428
1235.12	0.039193	0.0039993
1238.98	0.0465893	0.0038922
1242.84	0.0451866	0.0040249
1246.7	0.0430051	0.0039201
1250.56	0.0506393	0.0039458
1254.42	0.0519973	0.0039033
1258.28	0.0562934	0.0039245
1262.14	0.0559152	0.0040159
1266	0.0552875	0.0040802

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1269.86	0.0573704	0.0040866
1273.72	0.0549282	0.0040798
1277.58	0.0546007	0.0040749
1281.44	0.0572636	0.0040529
1285.3	0.0609647	0.0040194
1289.16	0.0639557	0.0040148
1293.02	0.0767711	0.0039879
1296.88	0.0827894	0.0041331
1300.74	0.0882595	0.0040551
1304.6	0.0978803	0.0040722
1308.46	0.108616	0.0041305
1312.32	0.108657	0.0041663
1316.18	0.115807	0.0040382
1320.04	0.139442	0.0041881
1323.9	0.137673	0.0043829
1327.76	0.123175	0.004238
1331.62	0.14632	0.0042327
1335.48	0.113857	0.0040635
1339.34	0.13981	0.0038922
1343.2	0.138224	0.004102
1347.06	0.174874	0.0043881
1350.92	0.128718	0.0043961
1354.78	0.132799	0.0040175
1358.63	0.141472	0.0039757
1362.49	0.145523	0.004166
1366.35	0.122948	0.0042753
1370.21	0.131328	0.0042003
1374.07	0.134953	0.004462
1377.93	0.115512	0.0045873
1381.79	0.108414	0.0044832
1385.65	0.107605	0.0038303
1389.51	0.11244	0.0047042
1393.37	0.107167	0.0036129
1397.23	0.113049	0.0042948
1401.09	0.0972579	0.0045802


MS20AV4
Absorbance
1.3
1.1
0.9
0.7
0.5
0.3
0.1
-0.1
700
800
900
1000
1100
1200
1300
1400
1500
Wavenumber (cm-1)
MS20AD4
Absorbance
0.007
0.006
0.005
0.004
0.003
0.002
0.001
0.000
700
800
900
1000
1100
1200
1300
1400
1500
Wavenumber (cm-1)

Methanol 20.00 Mole % 33.0 Torr MS20AV4
MS20AD4

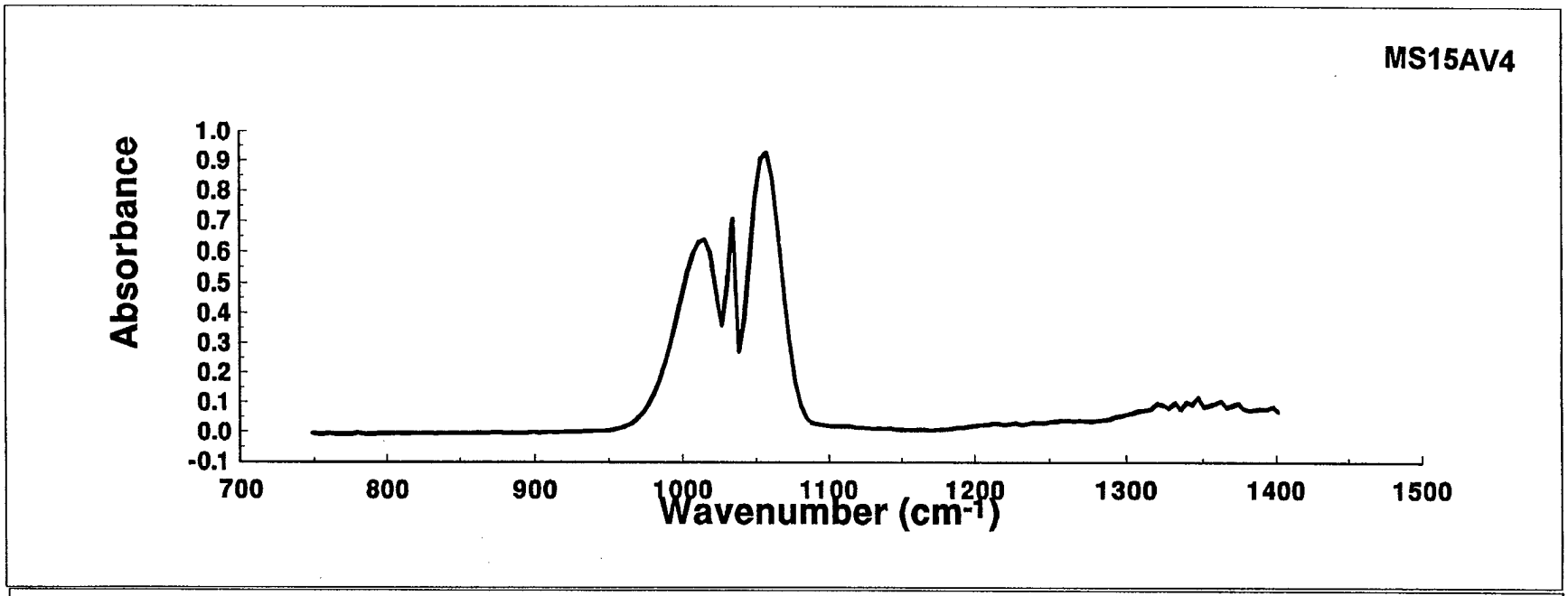
WN (cm-1)	AVE (A.U.)	AD (A.U.)
748.8	-0.0070345	0.0000624
752.66	-0.0081391	0.000114
756.519	-0.00839	0.0001016
760.379	-0.0076702	0.0001073
764.239	-0.0085225	0.0001124
768.099	-0.0085007	0.0001101
771.958	-0.0084154	0.0001219
775.818	-0.0081474	0.0000645
779.678	-0.0030171	0.0001319
783.538	-0.008417	0.0000853
787.397	-0.0090178	0.0001124
791.257	-0.0080388	0.0001271
795.117	-0.0071882	0.0001184
798.977	-0.0070193	0.0001316
802.836	-0.0068371	0.0001143
806.696	-0.0060429	0.0000935
810.556	-0.0076884	0.0001201
814.416	-0.0071159	0.000136
818.275	-0.0051453	0.0000931
822.135	-0.0051062	0.0001169
825.995	-0.0060202	0.0000957
829.854	-0.0057842	0.0001174
833.714	-0.0071073	0.0001338
837.574	-0.0063016	0.0001272
841.434	-0.0057282	0.0001321
845.293	-0.0061826	0.0001278
849.153	-0.0057678	0.0001301
853.013	-0.0054783	0.0001244
856.873	-0.0062484	0.0001311
860.732	-0.0042836	0.0001694
864.592	-0.0053501	0.0001437
868.452	-0.0056376	0.0001241
872.312	-0.0039097	0.0001811
876.171	-0.0040724	0.0001341
880.031	-0.0053285	0.0001171
883.891	-0.0049929	0.0001452
887.751	-0.0040873	0.0001417
891.61	-0.0049179	0.0001473
895.47	-0.0039202	0.0001369
899.33	-0.0013486	0.0001256
903.19	-0.0041346	0.000136
907.049	-0.0029032	0.0001352
910.909	-0.0018042	0.000136
914.769	-0.0020849	0.0001377
918.629	-0.0014517	0.0001413

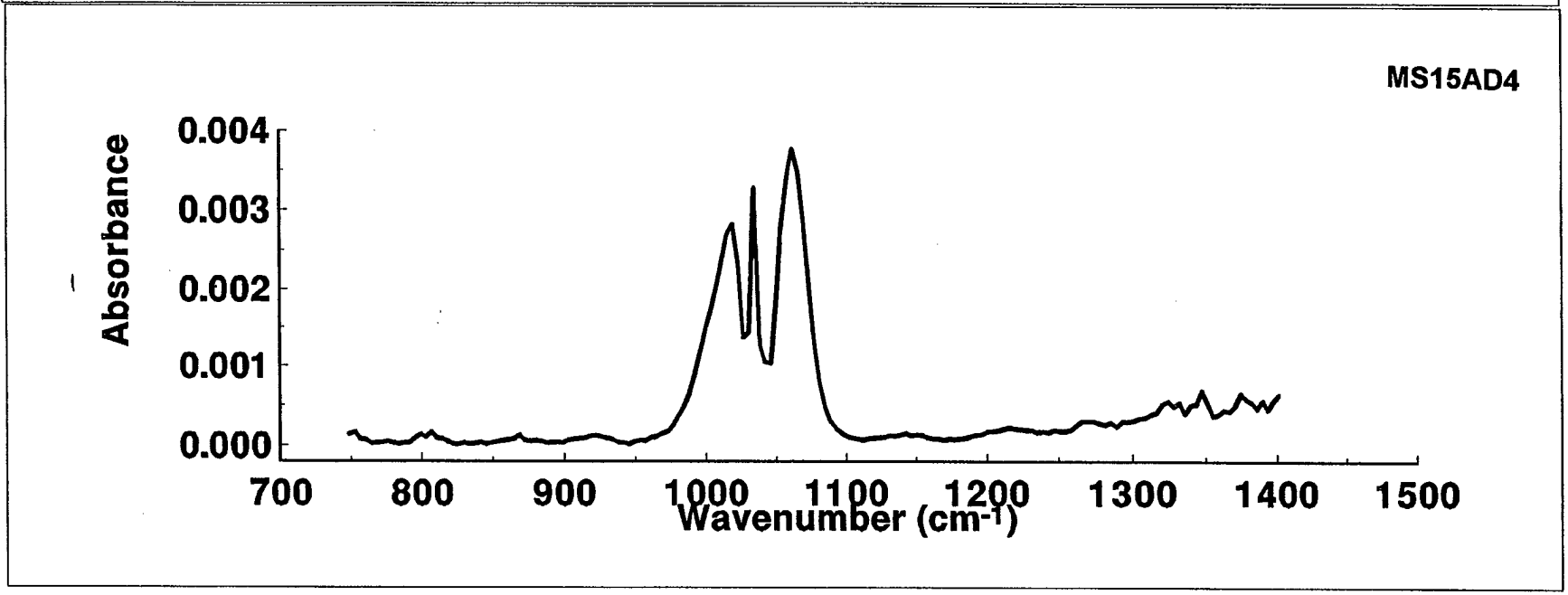
WN (cm-1)	AVE (A.U.)	AD (A.U.)
922.488	-0.000406	0.0001385
926.348	-0.000143	0.0001491
930.208	0.000598	0.0001585
934.068	0.0025596	0.0001698
937.927	0.0024047	0.0001573
941.787	0.0038655	0.0001582
945.647	0.0048534	0.0001752
949.506	0.0059798	0.0001628
953.366	0.0106723	0.0001754
957.226	0.0164738	0.0002197
961.086	0.0256004	0.0002438
964.945	0.0360113	0.0002497
968.805	0.0575089	0.000384
972.665	0.0801915	0.0004373
976.525	0.114623	0.0006221
980.384	0.163184	0.0008405
984.244	0.219211	0.0011243
988.104	0.290725	0.0015116
991.964	0.378965	0.0019127
995.823	0.476275	0.0024223
999.683	0.575254	0.0028889
1003.54	0.67041	0.0032151
1007.4	0.743925	0.003593
1011.26	0.791123	0.0037208
1015.12	0.804921	0.0034783
1018.98	0.75454	0.0033087
1022.84	0.604476	0.003082
1026.7	0.460196	0.0026388
1030.56	0.598199	0.0020066
1034.42	0.839857	0.00495
1038.28	0.347966	0.0018355
1042.14	0.482572	0.0022345
1046	0.737953	0.0043544
1049.86	0.97938	0.0058851
1053.72	1.13719	0.0065739
1057.58	1.18003	0.0069818
1061.43	1.09235	0.0062497
1065.29	0.879191	0.0047222
1069.15	0.630451	0.0033606
1073.01	0.407285	0.0021537
1076.87	0.225333	0.00116
1080.73	0.11953	0.0006708
1084.59	0.0633824	0.0004907
1088.45	0.039387	0.0003979
1092.31	0.0355066	0.0004027

Methanol 20.00 Mole % 33.0 Torr MS20AV4
MS20AD4

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1096.17	0.0320773	0.0004203
1100.03	0.0272689	0.0004297
1103.89	0.0250319	0.0003942
1107.75	0.0253208	0.0004294
1111.61	0.0241636	0.000394
1115.47	0.0258094	0.0003898
1119.33	0.0191203	0.0003602
1123.19	0.0190857	0.0003053
1127.05	0.016496	0.0002925
1130.91	0.0145286	0.0003201
1134.77	0.0160906	0.0003053
1138.63	0.0143183	0.0003198
1142.49	0.0151906	0.0003105
1146.35	0.0119967	0.0003038
1150.21	0.0105595	0.0003032
1154.07	0.0094988	0.0003054
1157.93	0.0097561	0.0003098
1161.79	0.0104584	0.0003097
1165.65	0.0107303	0.0003079
1169.51	0.0078928	0.0002753
1173.37	0.008799	0.0002888
1177.23	0.0106269	0.0003285
1181.09	0.0122868	0.000319
1184.95	0.0152687	0.000318
1188.81	0.0174298	0.0003258
1192.67	0.0189697	0.0003124
1196.53	0.0236757	0.0003588
1200.39	0.0266915	0.0003409
1204.25	0.0303378	0.0003825
1208.11	0.0330994	0.0003612
1211.96	0.0365362	0.000369
1215.82	0.0373928	0.0004276
1219.68	0.0327489	0.0003631
1223.54	0.0359321	0.0003869
1227.4	0.0391565	0.0004205
1231.26	0.0327075	0.0003697
1235.12	0.0353	0.0004255
1238.98	0.0413575	0.0004128
1242.84	0.040378	0.0004517
1246.7	0.0384591	0.0004489
1250.56	0.0448211	0.000488
1254.42	0.0459988	0.0004933
1258.28	0.0497377	0.0004682
1262.14	0.0493157	0.0005109
1266	0.048638	0.0004985

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1269.86	0.0505196	0.0004984
1273.72	0.0483978	0.000509
1277.58	0.0479436	0.0005027
1281.44	0.0503467	0.0005106
1285.3	0.0534865	0.0005525
1289.16	0.0562265	0.0005697
1293.02	0.0667403	0.000615
1296.88	0.0719792	0.0006472
1300.74	0.0766455	0.0006724
1304.6	0.0846665	0.0007202
1308.46	0.0939118	0.0007596
1312.32	0.0942027	0.0007918
1316.18	0.100359	0.0007521
1320.04	0.120902	0.0008728
1323.9	0.118819	0.000893
1327.76	0.106384	0.0007704
1331.62	0.125978	0.0009503
1335.48	0.0992393	0.0007856
1339.34	0.123037	0.0008263
1343.2	0.119558	0.000946
1347.06	0.15046	0.0010968
1350.92	0.111711	0.0009204
1354.78	0.115152	0.0008646
1358.63	0.122804	0.0008805
1362.49	0.129013	0.0009726
1366.35	0.10741	0.0008477
1370.21	0.11479	0.0007853
1374.07	0.119764	0.0008338
1377.93	0.101197	0.0007677
1381.79	0.0946831	0.0007757
1385.65	0.0949296	0.0005976
1389.51	0.0999505	0.001045
1393.37	0.0957013	0.0005531
1397.23	0.103236	0.0008344
1401.09	0.0876521	0.00092


MS15AV4
Absorbance
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
-0.1
700
800
900
1000
1100
1200
1300
1400
1500
Wavenumber (cm-1)


MS15AD4
Absorbance
0.004
0.003
0.002
0.001
0.000
700
800
900
1000
1100
1200
1300
1400
1500
Wavenumber (cm-1)

Methanol 15.00 Mole % 26.8 Torr MS15AV4
MS15AD4

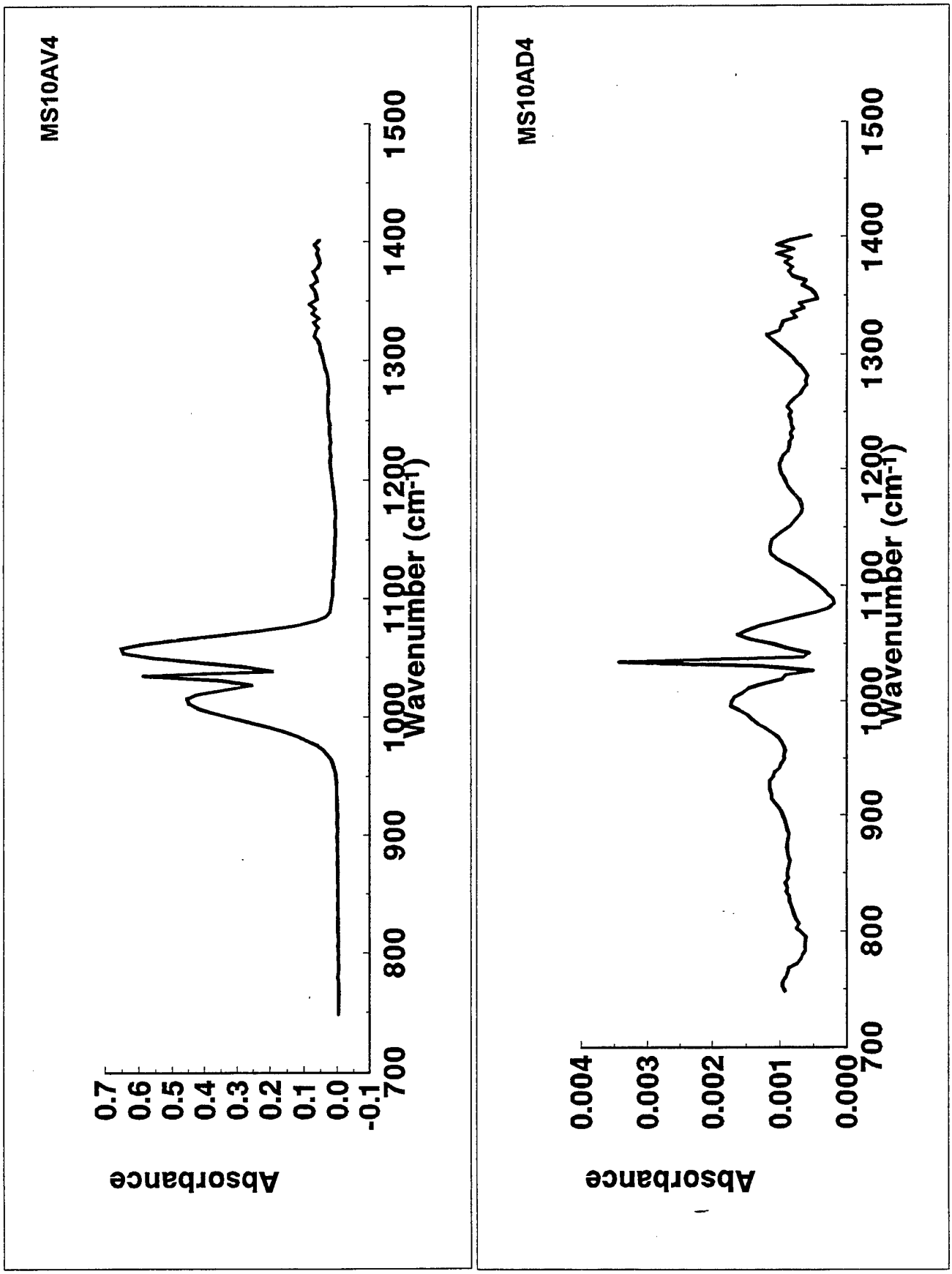
WN (cm-1)	AVE (A.U.)	AD (A.U.)
748.8	-0.0058018	0.0001467
752.66	-0.006913	0.0001635
756.519	-0.0070729	0.0000788
760.379	-0.0061725	0.0000701
764.239	-0.0071602	0.0000278
768.099	-0.0073704	0.0000348
771.958	-0.0071245	0.0000395
775.818	-0.0071116	0.0000514
779.678	-0.0031345	0.0000327
783.538	-0.0073063	0.0000185
787.397	-0.0076064	0.0000351
791.257	-0.0068674	0.0000355
795.117	-0.0059769	0.0000893
798.977	-0.0060431	0.0001408
802.836	-0.005923	0.0001066
806.696	-0.0049204	0.0001649
810.556	-0.0064588	0.0000897
814.416	-0.0058922	0.0000848
818.275	-0.0043038	0.0000515
822.135	-0.0046029	0.0000212
825.995	-0.0050638	0.0000126
829.854	-0.0048116	0.000034
833.714	-0.0060282	0.0000215
837.574	-0.0051321	0.0000266
841.434	-0.0046082	0.0000429
845.293	-0.0051728	0.0000186
849.153	-0.0046204	0.0000401
853.013	-0.0044237	0.0000467
856.873	-0.0051433	0.0000609
860.732	-0.0034298	0.0000725
864.592	-0.0041207	0.0000813
868.452	-0.0044237	0.0001287
872.312	-0.0028556	0.0000693
876.171	-0.0029957	0.0000574
880.031	-0.0041253	0.0000609
883.891	-0.00376	0.0000516
887.751	-0.0031682	0.0000318
891.61	-0.0040386	0.0000417
895.47	-0.0030749	0.0000421
899.33	-0.0010768	0.0000362
903.19	-0.0034339	0.0000727
907.049	-0.0023486	0.000075
910.909	-0.0014189	0.0000864
914.769	-0.0018861	0.0000977
918.629	-0.0012863	0.0001183

WN (cm-1)	AVE (A.U.)	AD (A.U.)
922.488	-0.0004293	0.0001235
926.348	-0.000497	0.0001122
930.208	0.000019	0.0000908
934.068	0.001565	0.0000752
937.927	0.0012209	0.0000454
941.787	0.002218	0.0000362
945.647	0.0030941	0.0000201
949.506	0.003901	0.0000484
953.366	0.0074218	0.0000666
957.226	0.0121542	0.0000642
961.086	0.019214	0.0001027
964.945	0.0272864	0.0001144
968.805	0.0443652	0.0001541
972.665	0.0622566	0.0001731
976.525	0.0896949	0.0002565
980.384	0.128629	0.0003692
984.244	0.173103	0.0004959
988.104	0.230143	0.000645
991.964	0.300577	0.0009005
995.823	0.377723	0.0011753
999.683	0.456862	0.0014665
1003.54	0.534596	0.0017218
1007.4	0.594004	0.0020205
1011.26	0.630055	0.0023741
1015.12	0.638492	0.0026928
1018.98	0.594521	0.0028205
1022.84	0.472812	0.0023425
1026.7	0.359894	0.0013723
1030.56	0.492215	0.0014442
1034.42	0.705449	0.0032752
1038.28	0.271886	0.0012722
1042.14	0.387894	0.0010479
1046	0.594075	0.001035
1049.86	0.787005	0.0018028
1053.72	0.907303	0.0028228
1057.58	0.927097	0.0034103
1061.43	0.84523	0.0037656
1065.29	0.675338	0.0034847
1069.15	0.48284	0.0028787
1073.01	0.310951	0.0020526
1076.87	0.171577	0.0012949
1080.73	0.0904984	0.0007949
1084.59	0.0477867	0.0004673
1088.45	0.0297896	0.0003041
1092.31	0.0268655	0.0002135

Methanol 15.00 Mole % 26.8 Torr MS15AV4
MS15AD4

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1096.17	0.0239681	0.0001648
1100.03	0.0203426	0.0001172
1103.89	0.0187816	0.0000951
1107.75	0.0190818	0.0000819
1111.61	0.0183351	0.0000731
1115.47	0.0194047	0.0000883
1119.33	0.0141979	0.0000906
1123.19	0.0142158	0.0001015
1127.05	0.0120852	0.0001065
1130.91	0.0106482	0.0001243
1134.77	0.0118732	0.0001194
1138.63	0.0105018	0.0001328
1142.49	0.0110658	0.0001528
1146.35	0.0086211	0.0001259
1150.21	0.0074922	0.0001346
1154.07	0.0066407	0.0001303
1157.93	0.0069825	0.000097
1161.79	0.0076698	0.0000878
1165.65	0.0078656	0.0000889
1169.51	0.005673	0.0000744
1173.37	0.0065406	0.0000866
1177.23	0.0079098	0.0000781
1181.09	0.0092588	0.0000855
1184.95	0.0118316	0.0000922
1188.81	0.0135367	0.0001212
1192.67	0.0148147	0.0001336
1196.53	0.0184817	0.0001375
1200.39	0.0209522	0.0001762
1204.25	0.0234702	0.000179
1208.11	0.0257619	0.0001897
1211.96	0.0286966	0.0002099
1215.82	0.0289822	0.0002277
1219.68	0.0256596	0.0002125
1223.54	0.0281415	0.0002018
1227.4	0.0303225	0.0001982
1231.26	0.0254878	0.0001924
1235.12	0.0274488	0.0001685
1238.98	0.0323809	0.00018
1242.84	0.0313615	0.0001668
1246.7	0.0301741	0.0001915
1250.56	0.0349537	0.0001821
1254.42	0.0359102	0.000182
1258.28	0.0387584	0.0001976
1262.14	0.0383344	0.000253
1266	0.0377125	0.0003043

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1269.86	0.039127	0.0003055
1273.72	0.0373078	0.0003026
1277.58	0.0368916	0.0002813
1281.44	0.0387494	0.0002654
1285.3	0.0410569	0.0002824
1289.16	0.0436613	0.0002395
1293.02	0.0516864	0.0002969
1296.88	0.0557086	0.0002965
1300.74	0.0595832	0.0003106
1304.6	0.0656762	0.0003438
1308.46	0.0731501	0.0003501
1312.32	0.0736244	0.0003893
1316.18	0.0791241	0.0004186
1320.04	0.0953547	0.0005155
1323.9	0.0919232	0.0005539
1327.76	0.0828091	0.0004923
1331.62	0.0982252	0.0005335
1335.48	0.0778126	0.0004013
1339.34	0.0996534	0.0005027
1343.2	0.0940182	0.0005213
1347.06	0.116689	0.0006771
1350.92	0.0865354	0.0005192
1354.78	0.090524	0.0003725
1358.63	0.0967113	0.0003886
1362.49	0.104079	0.0004427
1366.35	0.0842537	0.0004263
1370.21	0.0908157	0.0005064
1374.07	0.0962981	0.0006468
1377.93	0.0793156	0.0005793
1381.79	0.0733725	0.0005389
1385.65	0.076157	0.0004601
1389.51	0.0793812	0.0005567
1393.37	0.0780268	0.0004511
1397.23	0.085623	0.0005603
1401.09	0.0703194	0.0006374


MS10AV4
Absorbance
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
-0.1
700
800
900
1000
1100
1200
1300
1400
1500
Wavenumber (cm-1)
MS10AD4
Absorbance
0.004
0.003
0.002
0.001
0.000
700
800
900
1000
1100
1200
1300
1400
1500
Wavenumber (cm-1)

Methanol 10.00 Mole % 19.5 Torr MS10AV4
MS10AD4

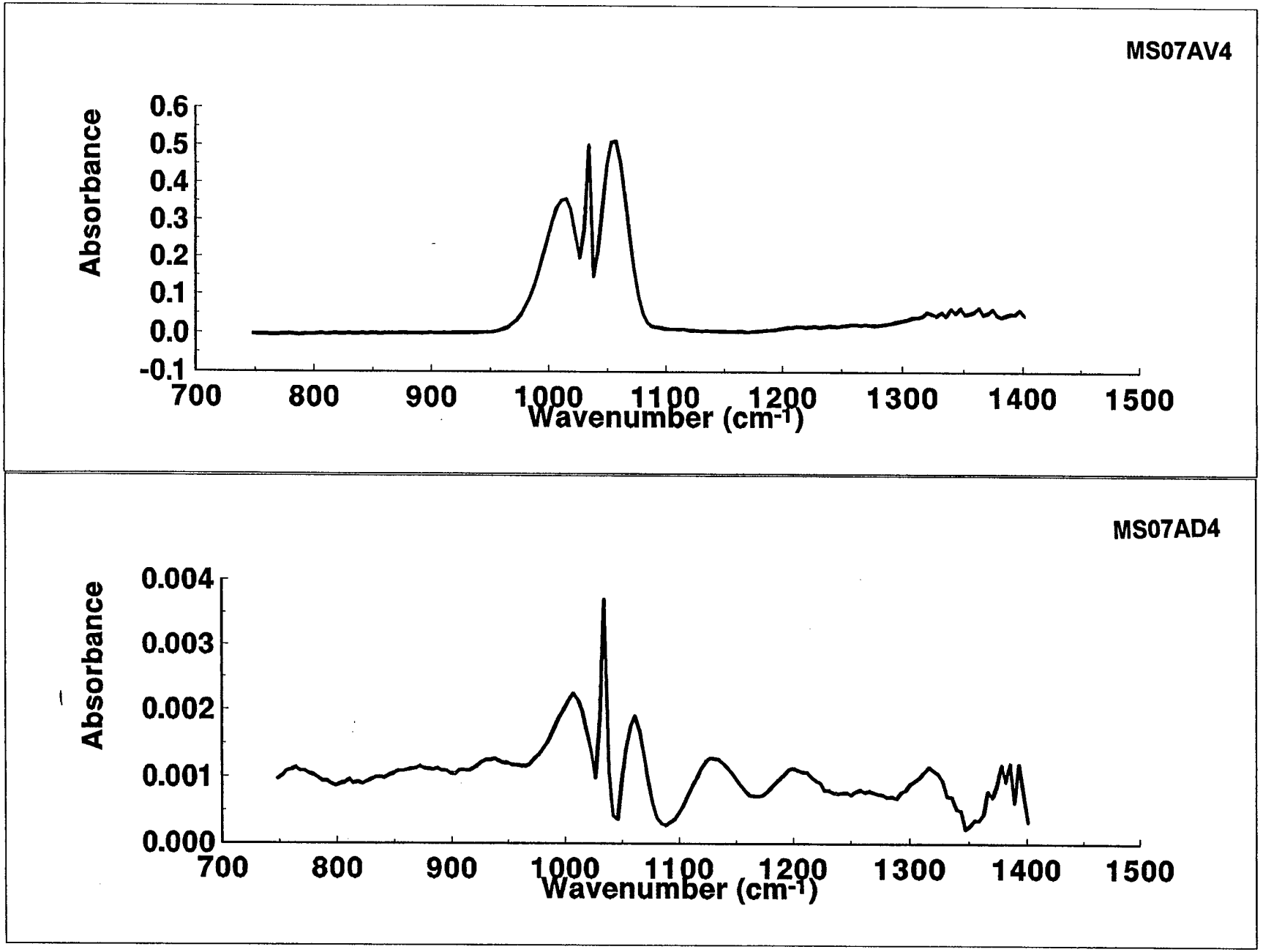
WN (cm-1)	AVE (A.U.)	AD (A.U.)
748.8	-0.0040217	0.0009214
752.66	-0.0047543	0.0009559
756.519	-0.004821	0.0009529
760.379	-0.0040683	0.0009115
764.239	-0.0048473	0.0008774
768.099	-0.0049839	0.0008646
771.958	-0.0046158	0.000742
775.818	-0.0047942	0.0006879
779.678	-0.0020307	0.0006578
783.538	-0.0047816	0.0006145
787.397	-0.0051259	0.0006194
791.257	-0.0047316	0.0006164
795.117	-0.0037802	0.0006053
798.977	-0.0039649	0.0006739
802.836	-0.003641	0.0007427
806.696	-0.0027301	0.0007144
810.556	-0.0041148	0.0007547
814.416	-0.0036669	0.0007832
818.275	-0.0023927	0.0008024
822.135	-0.002751	0.0008297
825.995	-0.0027803	0.0008486
829.854	-0.0024009	0.0008493
833.714	-0.0035002	0.0008953
837.574	-0.0027802	0.0008827
841.434	-0.0024905	0.0009108
845.293	-0.0030421	0.0008751
849.153	-0.002556	0.0008814
853.013	-0.0025137	0.0008776
856.873	-0.0033011	0.0008537
860.732	-0.001795	0.0008441
864.592	-0.002007	0.0008675
868.452	-0.0026068	0.0008796
872.312	-0.001296	0.0008884
876.171	-0.0009953	0.0008811
880.031	-0.002002	0.0008686
883.891	-0.0017416	0.0008647
887.751	-0.0010428	0.0008872
891.61	-0.0019305	0.0008954
895.47	-0.0011458	0.0009208
899.33	0.0005703	0.0009438
903.19	-0.0014774	0.0009704
907.049	-0.0009458	0.0010133
910.909	-7.58E-06	0.0010728
914.769	-0.0008765	0.001117
918.629	-0.0004207	0.0011174

WN (cm-1)	AVE (A.U.)	AD (A.U.)
922.488	0.0002642	0.0011403
926.348	-0.000081	0.0011426
930.208	0.0001542	0.0011428
934.068	0.0015307	0.0010943
937.927	0.0008467	0.0010645
941.787	0.0015561	0.0009955
945.647	0.0023472	0.0009735
949.506	0.0027645	0.0009271
953.366	0.0049016	0.0009314
957.226	0.0083107	0.0009129
961.086	0.0129445	0.0009319
964.945	0.0183602	0.0009701
968.805	0.0302702	0.0010105
972.665	0.0425257	0.0010976
976.525	0.0614314	0.0012025
980.384	0.0891764	0.0013175
984.244	0.120311	0.0014046
988.104	0.160136	0.0014715
991.964	0.210392	0.0015953
995.823	0.265188	0.0017221
999.683	0.32165	0.0017144
1003.54	0.378558	0.0016729
1007.4	0.422238	0.0015475
1011.26	0.44787	0.0014572
1015.12	0.453582	0.0012571
1018.98	0.422432	0.0009661
1022.84	0.335963	0.0009094
1026.7	0.253425	0.0005065
1030.56	0.349001	0.0012751
1034.42	0.585901	0.003422
1038.28	0.192627	0.0006483
1042.14	0.272253	0.0005678
1046	0.421213	0.0008894
1049.86	0.560404	0.0010873
1053.72	0.643938	0.0014183
1057.58	0.652224	0.001622
1061.43	0.590271	0.0014909
1065.29	0.471677	0.0012908
1069.15	0.338091	0.0010077
1073.01	0.218467	0.0007475
1076.87	0.121381	0.0004544
1080.73	0.064203	0.0002577
1084.59	0.034265	0.0001863
1088.45	0.0218595	0.0002001
1092.31	0.0193947	0.0002786

Methanol 10.00 Mole % 19.5 Torr MS10AV4 MS10AD4

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1096.17	0.0174204	0.000334
1100.03	0.0148197	0.0004156
1103.89	0.0134093	0.0005044
1107.75	0.0134157	0.0005963
1111.61	0.0127665	0.0007065
1115.47	0.0135724	0.0008073
1119.33	0.0097572	0.0009507
1123.19	0.0099078	0.0010526
1127.05	0.0082543	0.00113
1130.91	0.0073052	0.001147
1134.77	0.0081855	0.0011366
1138.63	0.0075735	0.0011195
1142.49	0.0077843	0.0010503
1146.35	0.0061797	0.0009576
1150.21	0.0055064	0.0008584
1154.07	0.0047391	0.0007967
1157.93	0.0051316	0.000745
1161.79	0.005638	0.0006873
1165.65	0.0057862	0.0006657
1169.51	0.0043408	0.000674
1173.37	0.0051516	0.000704
1177.23	0.0061529	0.0007606
1181.09	0.0069265	0.0008211
1184.95	0.008851	0.0008774
1188.81	0.0101453	0.0009106
1192.67	0.0110735	0.0009401
1196.53	0.0135794	0.0009809
1200.39	0.0153464	0.001
1204.25	0.0170821	0.0010028
1208.11	0.018692	0.000977
1211.96	0.0208442	0.0009447
1215.82	0.0211796	0.0008799
1219.68	0.0187	0.0008582
1223.54	0.0203212	0.0008587
1227.4	0.0220527	0.0008205
1231.26	0.0185706	0.0008417
1235.12	0.0200186	0.0008058
1238.98	0.0233045	0.0008263
1242.84	0.0227856	0.0008316
1246.7	0.0218029	0.0008576
1250.56	0.02508	0.0008308
1254.42	0.0255677	0.0008858
1258.28	0.0275978	0.000844
1262.14	0.0274068	0.0007786
1266	0.0268008	0.0006948

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1269.86	0.0277982	0.0006517
1273.72	0.0263081	0.0006026
1277.58	0.0255013	0.0006125
1281.44	0.0267291	0.0005903
1285.3	0.028077	0.0006233
1289.16	0.0302204	0.0006743
1293.02	0.0353335	0.0007496
1296.88	0.038499	0.0007978
1300.74	0.0413497	0.0008731
1304.6	0.0454618	0.0009499
1308.46	0.0510705	0.0010303
1312.32	0.051974	0.0011076
1316.18	0.0559874	0.0011908
1320.04	0.0681471	0.0010126
1323.9	0.064784	0.0009762
1327.76	0.0578265	0.0009538
1331.62	0.0687449	0.0007605
1335.48	0.0551852	0.0008191
1339.34	0.0736386	0.0006434
1343.2	0.0665854	0.0007023
1347.06	0.0818752	0.0004441
1350.92	0.0610426	0.0004753
1354.78	0.0635062	0.0005396
1358.63	0.0677041	0.0006637
1362.49	0.0776426	0.000617
1366.35	0.0601313	0.0008095
1370.21	0.0648013	0.0008682
1374.07	0.0723514	0.0008194
1377.93	0.0581128	0.0009178
1381.79	0.0527412	0.0008322
1385.65	0.0550976	0.0010377
1389.51	0.0606518	0.0008007
1393.37	0.0571535	0.0010376
1397.23	0.0683189	0.0008434
1401.09	0.0548962	0.0005431


MS07AV4
Absorbance
0.6
0.5
0.4
0.3
0.2
0.1
0.0
-0.1
700
800
900
1000
1100
1200
1300
1400
1500
Wavenumber (cm-1)
MS07AD4
Absorbance
0.004
0.003
0.002
0.001
0.000
700
800
900
1000
1100
1200
1300
1400
1500
Wavenumber (cm-1)

Methanol 7.66 Mole % 15.7 Torr MS07AV4 MS07AD4

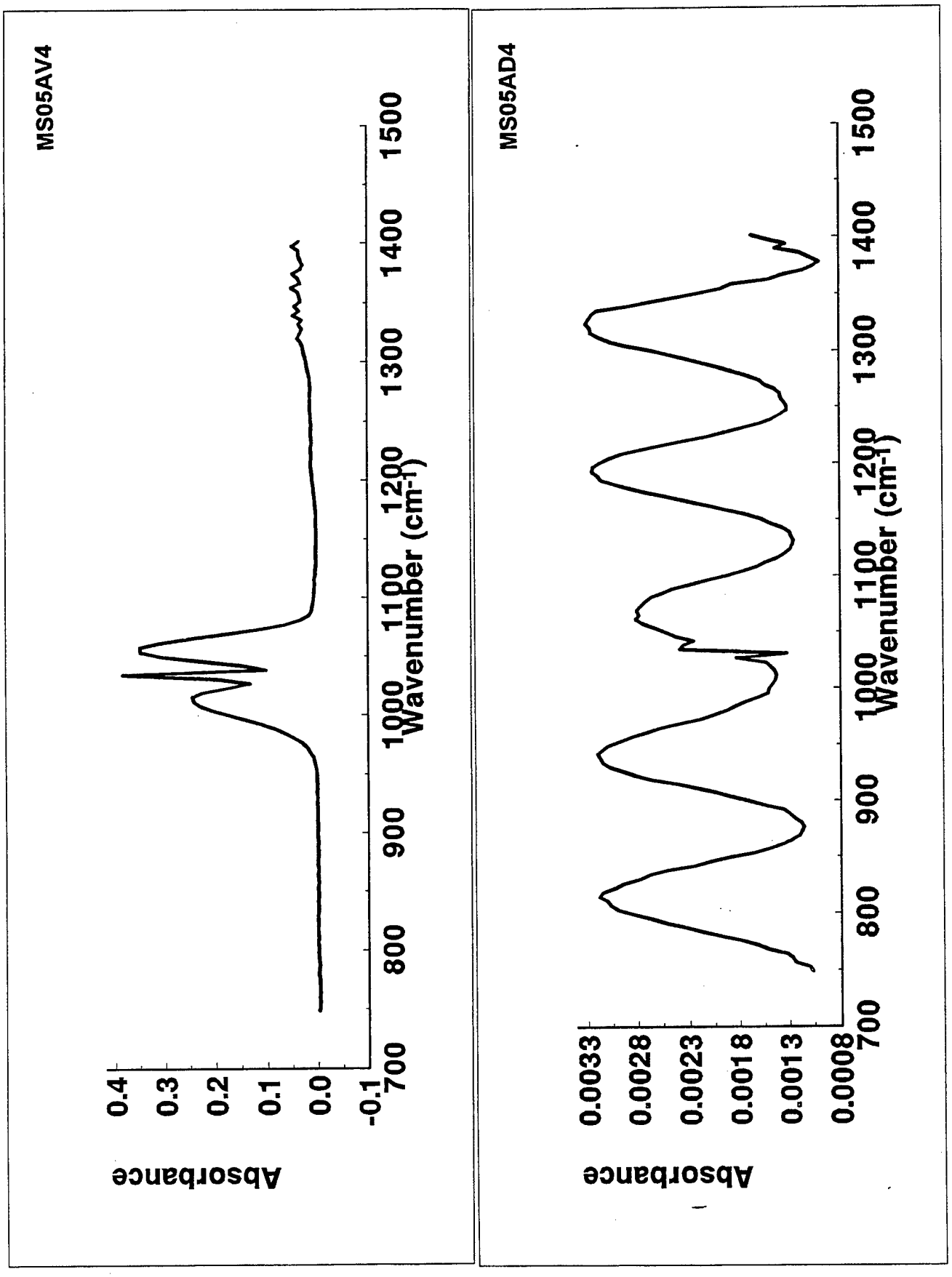
WN (cm-1)	AVE (A.U.)	AD (A.U.)
748.8	-0.004108	0.0009665
752.66	-0.005108	0.0010101
756.519	-0.0053914	0.0010819
760.379	-0.0047338	0.0010972
764.239	-0.0057562	0.0011275
768.099	-0.0057971	0.0010783
771.958	-0.0053307	0.0010808
775.818	-0.0054385	0.0010443
779.678	-0.0031996	0.0010192
783.538	-0.005146	0.0009806
787.397	-0.0055555	0.0009354
791.257	-0.004977	0.0009354
795.117	-0.0040117	0.000887
798.977	-0.0040529	0.0008655
802.836	-0.0037941	0.0008888
806.696	-0.002944	0.0009099
810.556	-0.0043103	0.0009532
814.416	-0.0038235	0.0009017
818.275	-0.0027115	0.0009158
822.135	-0.0031352	0.0008901
825.995	-0.0031227	0.0009227
829.854	-0.0027785	0.000957
833.714	-0.0037554	0.0009863
837.574	-0.0031654	0.0009881
841.434	-0.0027609	0.0009778
845.293	-0.0035184	0.0010156
849.153	-0.0028574	0.0010438
853.013	-0.0027483	0.00108
856.873	-0.0036197	0.0010822
860.732	-0.0023031	0.0010925
864.592	-0.0022892	0.0011149
868.452	-0.0028812	0.0011176
872.312	-0.001817	0.0011488
876.171	-0.0013982	0.0011153
880.031	-0.0025114	0.0011121
883.891	-0.00232	0.0011015
887.751	-0.001608	0.00112
891.61	-0.0026024	0.001086
895.47	-0.0017896	0.0010842
899.33	-0.0003577	0.0010438
903.19	-0.0021568	0.0010363
907.049	-0.0017977	0.001095
910.909	-0.0008929	0.0010937
914.769	-0.0017114	0.0010847
918.629	-0.0012965	0.0011121

WN (cm-1)	AVE (A.U.)	AD (A.U.)
922.488	-0.0007309	0.0011593
926.348	-0.0012826	0.0012081
930.208	-0.0012453	0.0012474
934.068	2.28E-06	0.0012454
937.927	-0.0007795	0.0012587
941.787	-0.0003827	0.0012339
945.647	0.0003636	0.001206
949.506	0.0005248	0.001206
953.366	0.002066	0.0011742
957.226	0.00481	0.0011697
961.086	0.0082807	0.0011635
964.945	0.0124867	0.001156
968.805	0.0219699	0.0011781
972.665	0.0314874	0.0012497
976.525	0.0463713	0.0013153
980.384	0.068556	0.0013975
984.244	0.0930253	0.0014976
988.104	0.12441	0.0016265
991.964	0.164411	0.0017735
995.823	0.207776	0.0019142
999.683	0.252458	0.0020229
1003.54	0.298042	0.0021442
1007.4	0.332688	0.0022338
1011.26	0.352219	0.002144
1015.12	0.355548	0.0019821
1018.98	0.329454	0.0016653
1022.84	0.260427	0.0013803
1026.7	0.197235	0.0009819
1030.56	0.279654	0.0018648
1034.42	0.49894	0.003689
1038.28	0.148083	0.001086
1042.14	0.215468	0.0004153
1046	0.335374	0.0003652
1049.86	0.444712	0.0009536
1053.72	0.507705	0.0014053
1057.58	0.510258	0.0017435
1061.43	0.458166	0.0018941
1065.29	0.364242	0.0016878
1069.15	0.259782	0.0013274
1073.01	0.166923	0.0009146
1076.87	0.0921508	0.0005931
1080.73	0.0482856	0.000376
1084.59	0.0254419	0.0003006
1088.45	0.0162634	0.0002683
1092.31	0.0143121	0.0003215

Methanol 7.66 Mole % 15.7 Torr MS07AV4
MS07AD4

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1096.17	0.0126872	0.0003649
1100.03	0.0105436	0.0004666
1103.89	0.0095133	0.0005813
1107.75	0.0092824	0.0007191
1111.61	0.0087073	0.000868
1115.47	0.0093281	0.0009778
1119.33	0.0061662	0.0011291
1123.19	0.0063634	0.0012222
1127.05	0.0051657	0.0012713
1130.91	0.0044054	0.0012667
1134.77	0.0052977	0.0012563
1138.63	0.0048031	0.0011897
1142.49	0.0049484	0.0011242
1146.35	0.0036854	0.0010425
1150.21	0.0034083	0.0009572
1154.07	0.0027208	0.0008633
1157.93	0.00313	0.0007891
1161.79	0.0035945	0.0007213
1165.65	0.0037381	0.0007136
1169.51	0.0025827	0.0007103
1173.37	0.003384	0.0007227
1177.23	0.0041835	0.0007754
1181.09	0.0047275	0.0008482
1184.95	0.0063713	0.0009156
1188.81	0.0073937	0.0009729
1192.67	0.0081211	0.0010346
1196.53	0.0102415	0.001107
1200.39	0.011658	0.0011229
1204.25	0.0131354	0.0010933
1208.11	0.0146235	0.0010673
1211.96	0.0165078	0.0010663
1215.82	0.016605	0.000992
1219.68	0.0149307	0.000944
1223.54	0.0161216	0.0009093
1227.4	0.0173919	0.0007988
1231.26	0.0146887	0.0007993
1235.12	0.0157584	0.0007615
1238.98	0.0182602	0.000748
1242.84	0.0178208	0.0007629
1246.7	0.0169141	0.0007657
1250.56	0.0193311	0.0007304
1254.42	0.0196698	0.0007803
1258.28	0.0214702	0.0008068
1262.14	0.0212228	0.0007746
1266	0.0206161	0.0007931

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1269.86	0.0216886	0.0007611
1273.72	0.020521	0.0007452
1277.58	0.0198096	0.0007316
1281.44	0.0207739	0.0006963
1285.3	0.0219107	0.0007041
1289.16	0.023804	0.0006789
1293.02	0.0273556	0.0007729
1296.88	0.0297359	0.0008062
1300.74	0.0316482	0.0008977
1304.6	0.0348536	0.0009387
1308.46	0.0391846	0.0009934
1312.32	0.0402399	0.0010672
1316.18	0.0435725	0.001143
1320.04	0.0534021	0.001093
1323.9	0.0496185	0.0010425
1327.76	0.0444025	0.0009288
1331.62	0.0532133	0.0007115
1335.48	0.0438279	0.0006988
1339.34	0.0616286	0.0005248
1343.2	0.0524084	0.0004902
1347.06	0.0643919	0.0002151
1350.92	0.048317	0.0002718
1354.78	0.0506895	0.000356
1358.63	0.054344	0.0003509
1362.49	0.0659801	0.0004438
1366.35	0.0480675	0.0007876
1370.21	0.0520392	0.0007036
1374.07	0.0606692	0.0008692
1377.93	0.0461656	0.0011678
1381.79	0.041372	0.0009406
1385.65	0.0453163	0.0011894
1389.51	0.0494425	0.0006256
1393.37	0.0490309	0.0011846
1397.23	0.0592719	0.0007412
1401.09	0.0458938	0.0003285


MS05AV4
Absorbance
0.4
0.3
0.2
0.1
0.0
-0.1
700
800
900
1000
1100
1200
1300
1400
1500
Wavenumber (cm-1)
MS05AD4
Absorbance
0.0033
0.0028
0.0023
0.0018
0.0013
0.0008
700
800
900
1000
1100
1200
1300
1400
1500
Wavenumber (cm-1)

Methanol 4.98 Mole % 10.8 Torr MS05AV4
MS05AD4

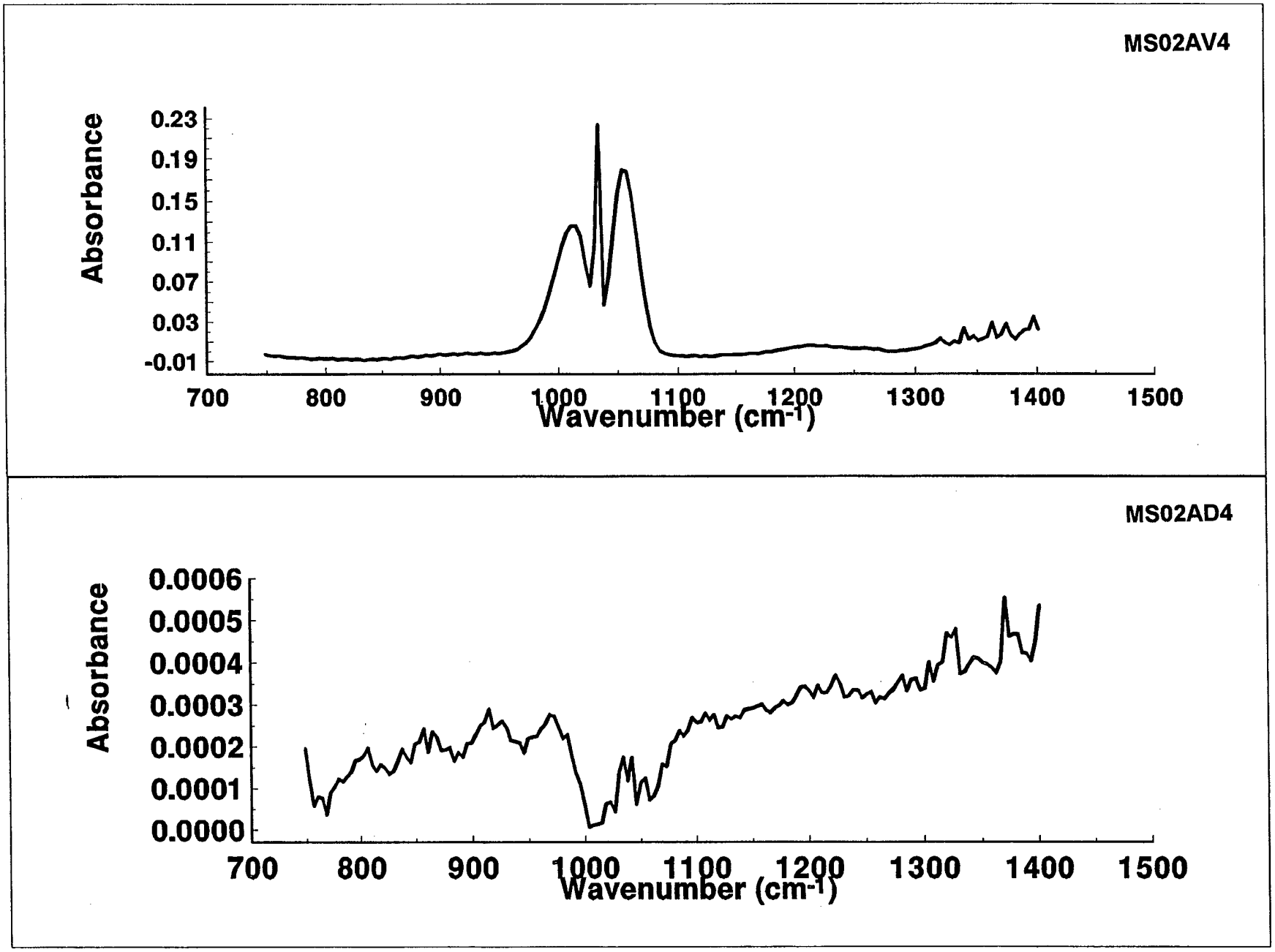
WN (cm-1)	AVE (A.U.)	AD (A.U.)
748.8	-0.0022687	0.0010692
752.66	-0.0032386	0.0011005
756.519	-0.0035891	0.0012375
760.379	-0.0025299	0.0012693
764.239	-0.0035915	0.0013284
768.099	-0.0032883	0.0015112
771.958	-0.0026253	0.0016166
775.818	-0.0027856	0.0017801
779.678	-0.0011017	0.0019817
783.538	-0.0019882	0.0021659
787.397	-0.0024048	0.0023406
791.257	-0.0019202	0.0025314
795.117	-0.0008842	0.0026603
798.977	-0.0011836	0.0028458
802.836	-0.0008599	0.0029928
806.696	0.0003085	0.0030643
810.556	-0.0008735	0.0031009
814.416	-0.0005352	0.0031796
818.275	0.0003694	0.0031472
822.135	-0.0002704	0.0030218
825.995	-0.0001723	0.0029344
829.854	0.0001645	0.0027819
833.714	-0.0009248	0.0026761
837.574	-0.0006528	0.002517
841.434	-0.0003966	0.0022478
845.293	-0.0011904	0.0020975
849.153	-0.0006452	0.0019061
853.013	-0.0005511	0.0016551
856.873	-0.0015714	0.0014892
860.732	-0.0007025	0.0013588
864.592	-0.0005099	0.0012646
868.452	-0.0014552	0.0011945
872.312	-0.0005247	0.0011698
876.171	0.0000254	0.0011532
880.031	-0.0010214	0.0011764
883.891	-0.0008669	0.0012462
887.751	-0.0001311	0.0012945
891.61	-0.0009081	0.0013538
895.47	-0.0003106	0.0015403
899.33	0.0009513	0.001696
903.19	-0.0004883	0.0018719
907.049	-0.0001755	0.0020323
910.909	0.0007919	0.0022088
914.769	0.0000725	0.002412
918.629	0.0005522	0.0026552

WN (cm-1)	AVE (A.U.)	AD (A.U.)
922.488	0.0011803	0.0028204
926.348	0.0006457	0.002936
930.208	0.0005105	0.0030759
934.068	0.0016142	0.0031434
937.927	0.0008699	0.0031672
941.787	0.0008621	0.0031928
945.647	0.0016048	0.0031495
949.506	0.0014008	0.0030841
953.366	0.0020985	0.002957
957.226	0.0039781	0.0028491
961.086	0.0060254	0.0027001
964.945	0.0085259	0.0025622
968.805	0.0150234	0.0023772
972.665	0.0213307	0.0021856
976.525	0.0311139	0.0020487
980.384	0.0462271	0.0019209
984.244	0.0627542	0.0018276
988.104	0.0839497	0.0017268
991.964	0.111442	0.0016015
995.823	0.141239	0.0015059
999.683	0.171904	0.0014942
1003.54	0.204	0.0014594
1007.4	0.228408	0.0014322
1011.26	0.241818	0.0014214
1015.12	0.244372	0.0014354
1018.98	0.22668	0.0014778
1022.84	0.178414	0.0015268
1026.7	0.133326	0.0018266
1030.56	0.195934	0.0013207
1034.42	0.384328	0.0023783
1038.28	0.101829	0.0023504
1042.14	0.148053	0.0022536
1046	0.22969	0.0024144
1049.86	0.304971	0.0025223
1053.72	0.348114	0.0026226
1057.58	0.349168	0.0027378
1061.43	0.312494	0.0028079
1065.29	0.248443	0.0027772
1069.15	0.177072	0.0027993
1073.01	0.113813	0.0027636
1076.87	0.0633423	0.0027154
1080.73	0.0334366	0.0026607
1084.59	0.0178095	0.0025491
1088.45	0.0116337	0.0024463
1092.31	0.0099832	0.0022728

Methanol 4.98 Mole % 10.8 Torr MS05AV4 MS05AD4

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1096.17	0.0085289	0.0021062
1100.03	0.0070565	0.0018965
1103.89	0.0061962	0.0017484
1107.75	0.0057341	0.0016158
1111.61	0.0052643	0.0015266
1115.47	0.0056392	0.0014086
1119.33	0.0032308	0.0013384
1123.19	0.0034744	0.0012793
1127.05	0.0027784	0.0012571
1130.91	0.0022209	0.0012455
1134.77	0.0029407	0.0012687
1138.63	0.0028168	0.0012833
1142.49	0.0028389	0.0013562
1146.35	0.001956	0.0014759
1150.21	0.002043	0.0015718
1154.07	0.0016262	0.0017114
1157.93	0.0019595	0.0019163
1161.79	0.0024697	0.0020864
1165.65	0.0027169	0.0022887
1169.51	0.0019049	0.0024836
1173.37	0.0027202	0.0026788
1177.23	0.0033734	0.0028496
1181.09	0.0037456	0.0030075
1184.95	0.0052517	0.0031477
1188.81	0.0061124	0.0031808
1192.67	0.0066251	0.0032389
1196.53	0.0082315	0.0032321
1200.39	0.0092605	0.0031631
1204.25	0.0100464	0.0030656
1208.11	0.0110389	0.0029451
1211.96	0.0124563	0.0027547
1215.82	0.0123381	0.0025518
1219.68	0.0110743	0.0023184
1223.54	0.0117571	0.0021023
1227.4	0.0122916	0.0019172
1231.26	0.0102734	0.0017381
1235.12	0.0107747	0.0015742
1238.98	0.0121168	0.001456
1242.84	0.0117407	0.0013755
1246.7	0.0109408	0.0013085
1250.56	0.0121849	0.0013108
1254.42	0.0121517	0.0013384
1258.28	0.0135459	0.0013698
1262.14	0.0134946	0.0013785

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1266	0.0131762	0.0014318
1269.86	0.0141665	0.0015321
1273.72	0.013323	0.0015819
1277.58	0.01254	0.0017085
1281.44	0.0132884	0.0018557
1285.3	0.0141368	0.0019864
1289.16	0.0159129	0.0021573
1293.02	0.0180176	0.0023257
1296.88	0.0199661	0.0024992
1300.74	0.0212108	0.0026741
1304.6	0.0234237	0.0029021
1308.46	0.0266372	0.0030587
1312.32	0.0278718	0.0031701
1316.18	0.0305438	0.003251
1320.04	0.0379341	0.0032552
1323.9	0.0336505	0.0032998
1327.76	0.0297138	0.0032759
1331.62	0.0355503	0.0032435
1335.48	0.0299663	0.0031917
1339.34	0.0460675	0.0028718
1343.2	0.0354753	0.0026466
1347.06	0.0431498	0.0023906
1350.92	0.0324318	0.0021769
1354.78	0.0340699	0.0019643
1358.63	0.0365842	0.0018609
1362.49	0.0499678	0.0014897
1366.35	0.0332421	0.0013489
1370.21	0.0366133	0.0011416
1374.07	0.0466877	0.0010424
1377.93	0.0332085	0.0009856
1381.79	0.0280648	0.0010821
1385.65	0.0324937	0.0011697
1389.51	0.0361584	0.0014187
1393.37	0.0362586	0.0013204
1397.23	0.0477774	0.0014992
1401.09	0.0353804	0.0016575


MS02AV4
Absorbance
0.23
0.19
0.15
0.11
0.07
0.03
-0.01
700
800
900
1000
1100
1200
1300
1400
1500
Wavenumber (cm-1)
MS02AD4
Absorbance
0.0006
0.0005
0.0004
0.0003
0.0002
0.0001
0.0000
700
800
900
1000
1100
1200
1300
1400
1500
Wavenumber (cm-1)

Methanol 2.52 Mole % 5.8 Torr MS02AV4
MS02AD4

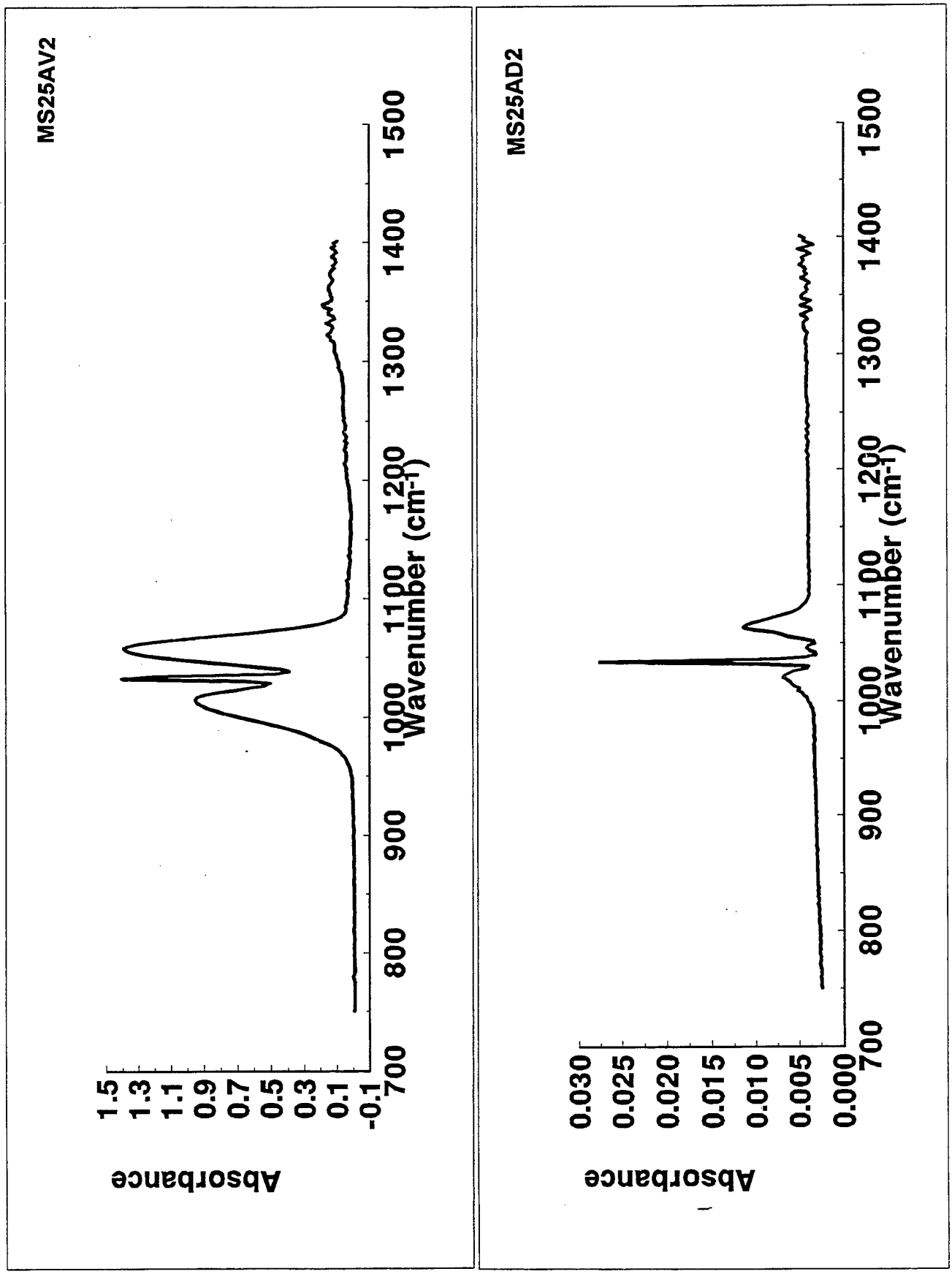
WN (cm-1)	AVE (A.U.)	AD (A.U.)
748.8	-0.0027801	0.0001939
752.66	-0.0044185	0.0001168
756.519	-0.0046629	0.0000588
760.379	-0.0043794	0.0000795
764.239	-0.0056031	0.0000748
768.099	-0.0058759	0.0000368
771.958	-0.0057302	0.0000897
775.818	-0.0063779	0.0001034
779.678	-0.0060605	0.0001216
783.538	-0.0067816	0.0001161
787.397	-0.0074569	0.0001281
791.257	-0.0074136	0.0001389
795.117	-0.0067764	0.0001659
798.977	-0.0073713	0.0001699
802.836	-0.0071946	0.0001773
806.696	-0.0068489	0.0001957
810.556	-0.0080985	0.0001554
814.416	-0.0076776	0.0001411
818.275	-0.0072829	0.0001566
822.135	-0.0081715	0.0001479
825.995	-0.0076155	0.0001345
829.854	-0.0076718	0.0001404
833.714	-0.0087304	0.0001675
837.574	-0.0080106	0.0001927
841.434	-0.0075522	0.0001747
845.293	-0.0082852	0.0001623
849.153	-0.0073497	0.0002059
853.013	-0.0070004	0.0002112
856.873	-0.0077965	0.000242
860.732	-0.0065256	0.0001874
864.592	-0.0059987	0.0002344
868.452	-0.0066852	0.000223
872.312	-0.0055188	0.0001912
876.171	-0.0046678	0.0001921
880.031	-0.0054815	0.0001972
883.891	-0.0047899	0.0001661
887.751	-0.0038516	0.0001847
891.61	-0.0045316	0.0001764
895.47	-0.0037625	0.0002064
899.33	-0.0025984	0.000209
903.19	-0.0036698	0.0002288
907.049	-0.0031956	0.0002494
910.909	-0.0023509	0.0002584
914.769	-0.0030634	0.0002887
918.629	-0.002587	0.0002444

WN (cm-1)	AVE (A.U.)	AD (A.U.)
922.488	-0.001732	0.0002509
926.348	-0.002586	0.0002606
930.208	-0.0025401	0.0002452
934.068	-0.0015437	0.0002143
937.927	-0.0024355	0.0002121
941.787	-0.0024511	0.0002093
945.647	-0.0014987	0.0001853
949.506	-0.0017966	0.0002183
953.366	-0.0015442	0.0002231
957.226	-0.0003109	0.0002252
961.086	0.0004669	0.0002428
964.945	0.0018192	0.0002539
968.805	0.0055783	0.0002753
972.665	0.0085331	0.000273
976.525	0.0135107	0.0002459
980.384	0.0219387	0.0002203
984.244	0.0305161	0.0002277
988.104	0.0414262	0.0001778
991.964	0.0565471	0.0001351
995.823	0.0723988	0.0001097
999.683	0.0887074	0.0000615
1003.54	0.106233	7.50E-06
1007.4	0.119339	0.0000107
1011.26	0.125668	0.0000128
1015.12	0.126158	0.0000164
1018.98	0.115524	0.0000631
1022.84	0.0885996	0.0000656
1026.7	0.0658487	0.0000442
1030.56	0.105358	0.0001382
1034.42	0.223135	0.0001732
1038.28	0.0471962	0.0001185
1042.14	0.0739665	0.0001723
1046	0.117852	0.0000621
1049.86	0.157296	0.0001142
1053.72	0.179006	0.0001229
1057.58	0.177531	0.0000721
1061.43	0.156089	0.0000815
1065.29	0.121555	0.0001057
1069.15	0.0834705	0.0001576
1073.01	0.0502986	0.000153
1076.87	0.0244759	0.0002064
1080.73	0.0088684	0.0002152
1084.59	0.0006851	0.0002368
1088.45	-0.002041	0.0002261
1092.31	-0.003067	0.0002387

Methanol 2.52 Mole % 5.8 Torr MS02AV4
MS02AD4

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1096.17	-0.0038875	0.0002685
1100.03	-0.0043085	0.0002573
1103.89	-0.0046036	0.0002592
1107.75	-0.004795	0.0002793
1111.61	-0.0046354	0.0002634
1115.47	-0.0042582	0.0002753
1119.33	-0.0053638	0.000245
1123.19	-0.004725	0.0002478
1127.05	-0.0048093	0.0002728
1130.91	-0.004802	0.0002659
1134.77	-0.0039646	0.0002728
1138.63	-0.0035599	0.0002694
1142.49	-0.003504	0.0002869
1146.35	-0.0035795	0.0002909
1150.21	-0.0030548	0.0002925
1154.07	-0.003123	0.0002962
1157.93	-0.0027488	0.0003007
1161.79	-0.0020681	0.0002878
1165.65	-0.0018421	0.0002817
1169.51	-0.0021319	0.0002928
1173.37	-0.0011222	0.0002989
1177.23	-0.0005918	0.0003084
1181.09	-0.0003095	0.0003008
1184.95	0.000999	0.0003044
1188.81	0.0017242	0.0003204
1192.67	0.0023075	0.0003413
1196.53	0.0034743	0.0003439
1200.39	0.0042054	0.0003333
1204.25	0.0047243	0.0003182
1208.11	0.0053104	0.0003457
1211.96	0.0061392	0.0003291
1215.82	0.0061307	0.0003289
1219.68	0.0052578	0.0003461
1223.54	0.0052667	0.0003696
1227.4	0.0055197	0.0003514
1231.26	0.0041995	0.0003185
1235.12	0.0040454	0.0003208
1238.98	0.0043459	0.0003351
1242.84	0.0037283	0.0003347
1246.7	0.00282	0.0003163
1250.56	0.0029665	0.0003246
1254.42	0.0027188	0.0003303
1258.28	0.0030011	0.0003052
1262.14	0.0027538	0.0003173
1266	0.0018309	0.0003148

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1269.86	0.0020809	0.0003276
1273.72	0.0009475	0.0003375
1277.58	-0.0002007	0.0003542
1281.44	-0.0002181	0.0003695
1285.3	-0.0002098	0.000334
1289.16	0.0009504	0.0003595
1293.02	0.0010822	0.0003627
1296.88	0.0019399	0.0003363
1300.74	0.0023575	0.0003391
1304.6	0.0034136	0.0004003
1308.46	0.0051869	0.0003572
1312.32	0.0067254	0.0003937
1316.18	0.0085686	0.0004022
1320.04	0.0129213	0.000469
1323.9	0.0087043	0.0004601
1327.76	0.0066529	0.0004787
1331.62	0.0099397	0.0003744
1335.48	0.0088676	0.0003789
1339.34	0.0231455	0.0003971
1343.2	0.0121457	0.0004125
1347.06	0.0150643	0.0004094
1350.92	0.0107462	0.0004003
1354.78	0.0125067	0.0003965
1358.63	0.0147837	0.0003891
1362.49	0.0287152	0.0003763
1366.35	0.0142347	0.0004026
1370.21	0.0174474	0.0005525
1374.07	0.0276452	0.000463
1377.93	0.0162485	0.0004676
1381.79	0.0124653	0.0004674
1385.65	0.0174197	0.0004231
1389.51	0.0215872	0.0004221
1393.37	0.0225217	0.0004053
1397.23	0.0343671	0.0004483
1401.09	0.0222925	0.0005336


MS25AV2
Absorbance
1.5
1.3
1.1
0.9
0.7
0.5
0.3
0.1
-0.1
700
800
900
1000
1100
1200
1300
1400
1500
Wavenumber (cm-1)
MS25AD2
Absorbance
0.030
0.025
0.020
0.015
0.010
0.005
0.000
700
800
900
1000
1100
1200
1300
1400
1500
Wavenumber (cm-1)

Methanol 24.97 Mole % 38.6 Torr MS25AV2
MS25AD2

WN (cm-1)	AVE (A.U.)	AD (A.U.)
750.547	-0.0088099	0.002333
752.476	-0.0095104	0.0024418
754.405	-0.0098932	0.0024035
756.335	-0.0101749	0.0024193
758.264	-0.0089773	0.0024522
760.194	-0.0093298	0.0024747
762.123	-0.009777	0.0023983
764.052	-0.0104469	0.0024356
765.982	-0.0103666	0.0024254
767.911	-0.0103675	0.0024796
769.84	-0.0104626	0.0025659
771.77	-0.0103216	0.0025717
773.699	-0.0107409	0.0024818
775.629	-0.0111112	0.0025253
777.558	-0.0061578	0.0024972
779.487	-0.0022844	0.0025993
781.417	-0.0069183	0.0026339
783.346	-0.0109307	0.0025552
785.275	-0.01099	0.0025953
787.205	-0.0110451	0.0025879
789.134	-0.010542	0.0025462
791.064	-0.0099655	0.0025617
792.993	-0.0094651	0.0025877
794.922	-0.0090154	0.0025684
796.852	-0.0087436	0.0025378
798.781	-0.0089267	0.0025895
800.711	-0.0090919	0.0025855
802.64	-0.0087669	0.0025972
804.569	-0.0081834	0.002602
806.499	-0.0073668	0.0026809
808.428	-0.0088112	0.0026832
810.357	-0.0098952	0.0026767
812.287	-0.0097949	0.0026142
814.216	-0.0089472	0.0026732
816.146	-0.0078692	0.0027102
818.075	-0.0070945	0.0026608
820.004	-0.0047147	0.0026904
821.934	-0.0073025	0.0027507
823.863	-0.0084489	0.0028056
825.792	-0.0084861	0.0027185
827.722	-0.0071639	0.0027337
829.651	-0.007846	0.0027836
831.581	-0.0085819	0.0027472
833.51	-0.0095632	0.0027891
835.439	-0.0091895	0.0027879

WN (cm-1)	AVE (A.U.)	AD (A.U.)
837.369	-0.0081638	0.002743
839.298	-0.0076875	0.0028297
841.228	-0.0075714	0.0028175
843.157	-0.0082592	0.0028258
845.086	-0.0079733	0.0028289
847.016	-0.0080335	0.0028293
848.945	-0.0075007	0.0028438
850.874	-0.0073909	0.0028704
852.804	-0.0072181	0.0028844
854.733	-0.008131	0.0028961
856.663	-0.0083944	0.0029066
858.592	-0.0068562	0.0028702
860.521	-0.0052493	0.0028949
862.451	-0.0071031	0.0029041
864.38	-0.0072246	0.0028907
866.31	-0.0072269	0.002935
868.239	-0.0076185	0.0029119
870.168	-0.0074534	0.0028771
872.098	-0.0053477	0.0029221
874.027	-0.004903	0.0029492
875.956	-0.0059209	0.0029228
877.886	-0.0068338	0.0029146
879.815	-0.0072717	0.0029444
881.745	-0.0077056	0.0029712
883.674	-0.0071189	0.0029524
885.603	-0.0060052	0.0029921
887.533	-0.0060108	0.0029737
889.462	-0.0066116	0.0029849
891.392	-0.0070684	0.0030242
893.321	-0.0069237	0.0030006
895.25	-0.0059578	0.0029859
897.18	-0.0043186	0.00297
899.109	-0.0020173	0.0030166
901.038	-0.0047829	0.0030392
902.968	-0.0062201	0.0029773
904.897	-0.0061408	0.0030251
906.827	-0.004469	0.0030332
908.756	-0.0031986	0.0030215
910.685	-0.0033538	0.0030358
912.615	-0.0031018	0.0030302
914.544	-0.0036673	0.0030333
916.473	-0.0030158	0.0030575
918.403	-0.0026162	0.0030604
920.332	-0.0015096	0.0030496
922.262	-0.0012821	0.0030548

Methanol 24.97 Mole % 38.6 Torr MS25AV2
MS25AD2

WN (cm-1)	AVE (A.U.)	AD (A.U.)
924.191	-0.0005994	0.0031015
926.12	-0.0005467	0.003103
928.05	-0.0005272	0.003128
929.979	0.0000891	0.0031005
931.909	0.0020867	0.0031147
933.838	0.0027594	0.0031761
935.767	0.0014541	0.0031504
937.697	0.0019443	0.0031409
939.626	0.0037514	0.0031758
941.555	0.0040045	0.0032111
943.485	0.0041372	0.0032233
945.414	0.0044439	0.0032308
947.344	0.00571	0.0031906
949.273	0.0054437	0.0031966
951.202	0.0094711	0.0031967
953.132	0.011695	0.0032108
955.061	0.0153787	0.0032323
956.991	0.0171817	0.0032333
958.92	0.0233989	0.0032392
960.849	0.0299732	0.0032444
962.779	0.0351882	0.003262
964.708	0.042267	0.0031932
966.637	0.0517578	0.0031769
968.567	0.0678614	0.0032476
970.496	0.0755096	0.0032845
972.426	0.0915059	0.0032162
974.355	0.112348	0.0032326
976.284	0.137688	0.0032561
978.214	0.167631	0.0032233
980.143	0.20195	0.0032772
982.072	0.231097	0.0032951
984.002	0.263849	0.0033444
985.931	0.298483	0.0033265
987.861	0.339801	0.0032861
989.79	0.385698	0.0033378
991.719	0.436363	0.0034089
993.649	0.492309	0.0034003
995.578	0.54891	0.0036316
997.508	0.60771	0.0036653
999.437	0.667913	0.0039115
1001.36	0.726535	0.0039897
1003.29	0.784084	0.0040603
1005.22	0.828473	0.0044323
1007.15	0.872139	0.0045826
1009.08	0.902979	0.0051055

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1011.01	0.930909	0.004934
1012.94	0.946797	0.0054567
1014.87	0.950508	0.0058326
1016.8	0.941392	0.0060392
1018.73	0.896625	0.0064209
1020.66	0.818528	0.0067804
1022.59	0.714407	0.0065887
1024.51	0.623978	0.0060621
1026.44	0.533353	0.005574
1028.37	0.503947	0.004025
1030.3	0.663675	0.0038827
1032.23	1.40057	0.0100385
1034.16	1.18739	0.02752
1036.09	0.463612	0.0077025
1038.02	0.390267	0.0043542
1039.95	0.431982	0.0030732
1041.88	0.573156	0.0031405
1043.81	0.712986	0.0037563
1045.74	0.86537	0.0040563
1047.67	1.01647	0.0039266
1049.6	1.13893	0.0031991
1051.53	1.24959	0.0033597
1053.45	1.32123	0.0045212
1055.38	1.36924	0.0062061
1057.31	1.38909	0.0069949
1059.24	1.36954	0.00794
1061.17	1.31038	0.0100975
1063.1	1.19647	0.0114129
1065.03	1.05892	0.0111601
1066.96	0.906775	0.0104676
1068.89	0.758398	0.0094812
1070.82	0.611973	0.0085192
1072.75	0.486645	0.0075394
1074.68	0.369187	0.0066544
1076.61	0.262906	0.0057419
1078.54	0.190963	0.0052137
1080.47	0.140215	0.0048506
1082.39	0.0993288	0.004535
1084.32	0.0726367	0.0042835
1086.25	0.0558084	0.0041073
1088.18	0.0441049	0.0039535
1090.11	0.0397498	0.003855
1092.04	0.0397406	0.0037972
1093.97	0.04409	0.0038322
1095.9	0.034131	0.0038559

Methanol 24.97 Mole % 38.6 Torr MS25AV2 MS25AD2

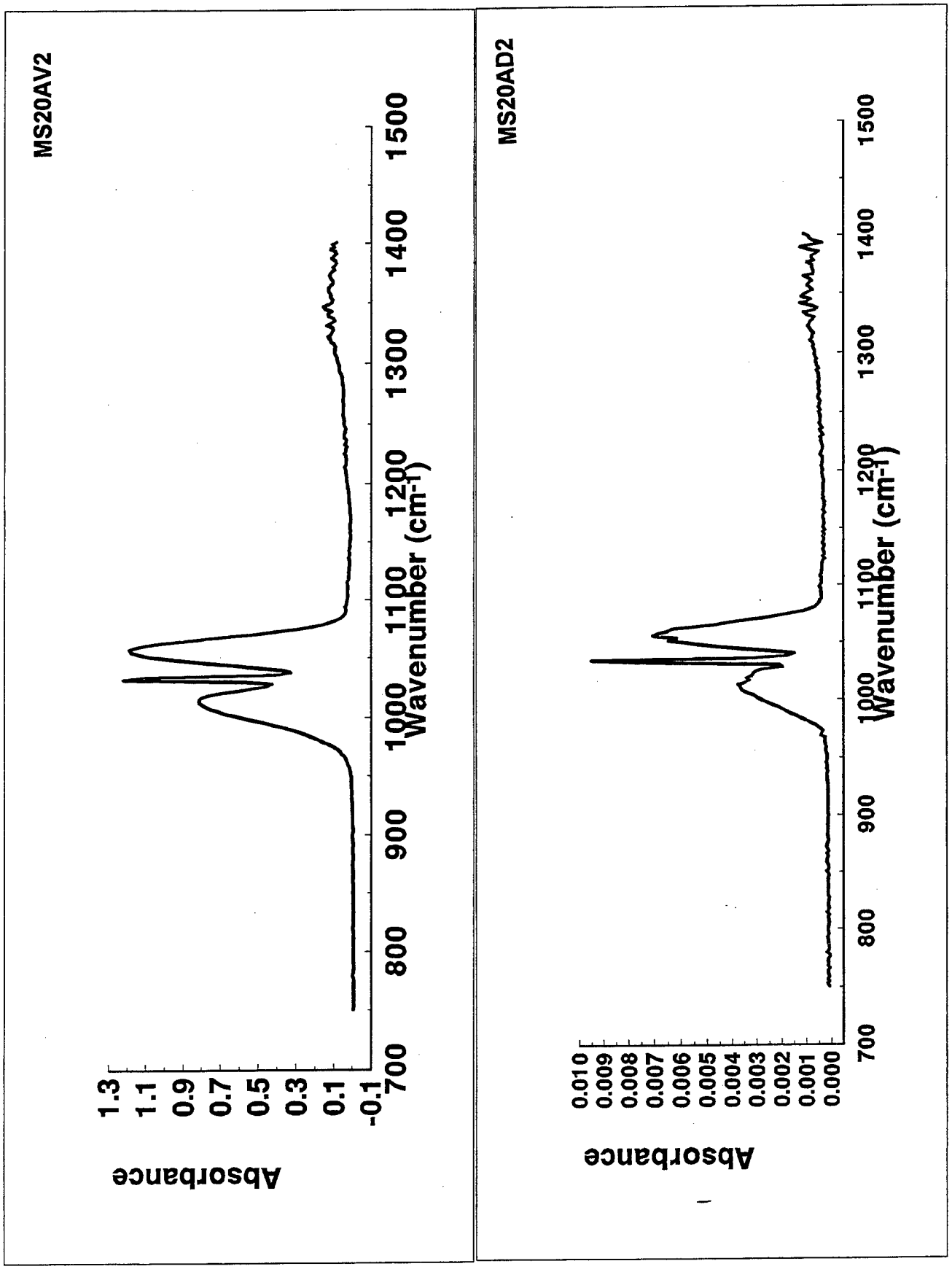
WN (cm-1)	AVE (A.U.)	AD (A.U.)
1097.83	0.0352694	0.003805
1099.76	0.0304126	0.0038096
1101.69	0.0287309	0.0038144
1103.62	0.0275494	0.0037856
1105.55	0.0298324	0.0037772
1107.48	0.0284023	0.0038003
1109.41	0.0265388	0.0038208
1111.33	0.0276963	0.0037607
1113.26	0.0285505	0.0038076
1115.19	0.031552	0.0038613
1117.12	0.0224769	0.0038541
1119.05	0.0208885	0.0038426
1120.98	0.0216132	0.0038431
1122.91	0.0210565	0.003844
1124.84	0.0205468	0.0038995
1126.77	0.0179946	0.00389
1128.7	0.0172903	0.0038739
1130.63	0.0157865	0.0039008
1132.56	0.0146509	0.0038288
1134.49	0.0173005	0.0038485
1136.42	0.0205965	0.0039444
1138.34	0.0144633	0.0039062
1140.27	0.0143583	0.0038309
1142.2	0.0182031	0.0039365
1144.13	0.0143279	0.0039064
1146.06	0.0117367	0.0038538
1147.99	0.0124549	0.0038774
1149.92	0.010498	0.0038755
1151.85	0.0096347	0.0038666
1153.78	0.0099413	0.0038827
1155.71	0.0079367	0.0038244
1157.64	0.010367	0.0038669
1159.57	0.0098034	0.0038686
1161.5	0.0104267	0.0038639
1163.43	0.0107784	0.0038409
1165.36	0.0116917	0.0039117
1167.28	0.0073325	0.0039098
1169.21	0.007321	0.0038753
1171.14	0.0075206	0.0038544
1173.07	0.0079021	0.0038421
1175	0.0100719	0.0038286
1176.93	0.0104886	0.0038582
1178.86	0.0108263	0.0038637
1180.79	0.0123748	0.0038314
1182.72	0.0149866	0.0038624

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1184.65	0.0159756	0.0039117
1186.58	0.0172589	0.0038836
1188.51	0.0187276	0.0038973
1190.44	0.0186243	0.003914
1192.37	0.0204183	0.0038946
1194.3	0.0222432	0.0038798
1196.22	0.0258958	0.0038942
1198.15	0.0280399	0.0038873
1200.08	0.0281788	0.0038696
1202.01	0.0340713	0.0039108
1203.94	0.0326891	0.0039313
1205.87	0.0333405	0.0038847
1207.8	0.0372773	0.0039318
1209.73	0.036738	0.0039486
1211.66	0.0399844	0.0038354
1213.59	0.0463667	0.0039245
1215.52	0.04167	0.0040574
1217.45	0.0356051	0.0039909
1219.38	0.0357735	0.0039419
1221.31	0.0368027	0.0039664
1223.24	0.0386983	0.0038787
1225.16	0.0468162	0.0039121
1227.09	0.0418323	0.0040342
1229.02	0.0412559	0.0041022
1230.95	0.0315321	0.003906
1232.88	0.0445676	0.0039243
1234.81	0.0378725	0.0040651
1236.74	0.0360973	0.0038834
1238.67	0.0479857	0.0038476
1240.6	0.0509302	0.0040312
1242.53	0.0440667	0.0040317
1244.46	0.0426822	0.0039881
1246.39	0.0417648	0.0039094
1248.32	0.0476203	0.0038805
1250.25	0.0520212	0.0039769
1252.17	0.0493514	0.0039331
1254.1	0.0521911	0.0039167
1256.03	0.0551834	0.0038501
1257.96	0.0572105	0.0039306
1259.89	0.0554867	0.0039856
1261.82	0.0560043	0.0040127
1263.75	0.0557352	0.0040601
1265.68	0.0550392	0.0040909
1267.61	0.0566713	0.0040867
1269.54	0.0584598	0.0040916

Methanol 24.97 Mole % 38.6 Torr MS25AV2
MS25AD2

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1271.47	0.0560036	0.0040738
1273.4	0.0545812	0.0040727
1275.33	0.0548307	0.0040953
1277.26	0.0542729	0.0040747
1279.19	0.0557665	0.0040584
1281.11	0.0569036	0.0040704
1283.04	0.0595024	0.0040123
1284.97	0.0613938	0.0040263
1286.9	0.0610496	0.0040032
1288.83	0.0636517	0.0040214
1290.76	0.0671534	0.0040077
1292.69	0.0767743	0.0039479
1294.62	0.0839221	0.0040996
1296.55	0.0823473	0.0041433
1298.48	0.0834947	0.0040941
1300.41	0.0878664	0.0040583
1302.34	0.0953419	0.0040438
1304.27	0.0969628	0.0040868
1306.2	0.10193	0.0040388
1308.13	0.109576	0.0041338
1310.05	0.11011	0.0042151
1311.98	0.109321	0.0041448
1313.91	0.107237	0.0041447
1315.84	0.114082	0.0040467
1317.77	0.133398	0.0039748
1319.7	0.136067	0.0041951
1321.63	0.151052	0.0043461
1323.56	0.135759	0.0043763
1325.49	0.128087	0.0044122
1327.42	0.121162	0.0042791
1329.35	0.124219	0.0039553
1331.28	0.156961	0.0041522
1333.21	0.131685	0.0046826
1335.14	0.108973	0.004043
1337.06	0.117997	0.0035166
1338.99	0.144603	0.0037469
1340.92	0.146856	0.0047159
1342.85	0.129824	0.0040529
1344.78	0.171475	0.0036266
1346.71	0.181176	0.0045209
1348.64	0.145928	0.0046983
1350.57	0.125428	0.0044005
1352.5	0.123801	0.0040648
1354.43	0.135327	0.0039661
1356.36	0.134876	0.0040933

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1358.29	0.142807	0.0040153
1360.22	0.147126	0.0037216
1362.15	0.145042	0.0041327
1364.08	0.13364	0.0046521
1366	0.12162	0.0042286
1367.93	0.120882	0.0040695
1369.86	0.131056	0.0042646
1371.79	0.139282	0.0041711
1373.72	0.13732	0.0044123
1375.65	0.124004	0.0048756
1377.58	0.11211	0.004563
1379.51	0.119532	0.0044167
1381.44	0.106511	0.0045646
1383.37	0.100028	0.0042731
1385.3	0.106253	0.0036704
1387.23	0.123505	0.0040428
1389.16	0.112887	0.0050281
1391.09	0.0994202	0.0042477
1393.02	0.103991	0.0033522
1394.94	0.125333	0.0039354
1396.87	0.108563	0.004379
1398.8	0.116031	0.0043381
1400.73	0.0936468	0.0048131


MS20AV2
Absorbance
1.3
1.1
0.9
0.7
0.5
0.3
0.1
-0.1
700
800
900
1000
1100
1200
1300
1400
1500
Wavenumber (cm-1)
MS20AD2
Absorbance
0.010
0.009
0.008
0.007
0.006
0.005
0.004
0.003
0.002
0.001
0.000
700
800
900
1000
1100
1200
1300
1400
1500
Wavenumber (cm-1)

Methanol 20.00 Mole % 33.0 Torr MS20AV2
MS20AD2

WN (cm-1)	AVE (A.U.)	AD (A.U.)
750.547	-0.0073583	0.0000836
752.476	-0.0081503	0.0001452
754.405	-0.0084802	0.0000739
756.335	-0.0085398	0.0001335
758.264	-0.0076111	0.0000763
760.194	-0.0077164	0.0001188
762.123	-0.00802	0.0001315
764.052	-0.0088307	0.0001304
765.982	-0.0087401	0.0000708
767.911	-0.0085281	0.0001224
769.84	-0.0087236	0.0001016
771.77	-0.0085747	0.0001307
773.699	-0.0088233	0.0001233
775.629	-0.0091602	0.0000597
777.558	-0.0048594	0.00005
779.487	-0.0019397	0.000163
781.417	-0.0056196	0.0001038
783.346	-0.0090142	0.0000798
785.275	-0.009042	0.0000811
787.205	-0.0091137	0.0001132
789.134	-0.0086262	0.0001274
791.064	-0.0079382	0.0001272
792.993	-0.0075305	0.0001532
794.922	-0.0070945	0.0001126
796.852	-0.0068094	0.0001013
798.781	-0.0068869	0.0001352
800.711	-0.0069814	0.000128
802.64	-0.006667	0.0001138
804.569	-0.0062756	0.0000876
806.499	-0.0054366	0.0000906
808.428	-0.006843	0.0001138
810.357	-0.0077594	0.0001356
812.287	-0.0076289	0.0000902
814.216	-0.007083	0.0001651
816.146	-0.0061521	0.0001314
818.075	-0.0055194	0.0000862
820.004	-0.003434	0.0001111
821.934	-0.005448	0.0001314
823.863	-0.0064548	0.0001001
825.792	-0.0064435	0.0001059
827.722	-0.0052955	0.0000804
829.651	-0.0060163	0.0001315
831.581	-0.0066805	0.0001368
833.51	-0.0075113	0.0001379
835.439	-0.0072105	0.0001254

WN (cm-1)	AVE (A.U.)	AD (A.U.)
837.369	-0.0063626	0.0001288
839.298	-0.0059307	0.0001267
841.228	-0.0056415	0.0001346
843.157	-0.0064029	0.0001256
845.086	-0.0061478	0.0001273
847.016	-0.0061844	0.0000952
848.945	-0.005628	0.0001256
850.874	-0.0054423	0.0001789
852.804	-0.0051507	0.0001071
854.733	-0.0059266	0.0001053
856.663	-0.0063899	0.0001238
858.592	-0.0050899	0.0001709
860.521	-0.0034289	0.0001726
862.451	-0.0049785	0.0001468
864.38	-0.0052148	0.0001219
866.31	-0.0050951	0.0001697
868.239	-0.0056054	0.0001091
870.168	-0.0054905	0.0001467
872.098	-0.0035407	0.0001905
874.027	-0.0030945	0.0001696
875.956	-0.0039274	0.0001432
877.886	-0.0049912	0.0001031
879.815	-0.0052945	0.0001234
881.745	-0.0056984	0.0001461
883.674	-0.0051246	0.0001518
885.603	-0.0042443	0.0001436
887.533	-0.0041376	0.0001442
889.462	-0.0046776	0.0001439
891.392	-0.0052266	0.0001521
893.321	-0.0051693	0.0001246
895.25	-0.0042278	0.0001473
897.18	-0.0027319	0.0001358
899.109	-0.0006617	0.0001193
901.038	-0.0031225	0.00013
902.968	-0.0045255	0.0001452
904.897	-0.0043938	0.0001322
906.827	-0.002883	0.0001341
908.756	-0.0017542	0.0001275
910.685	-0.0018659	0.0001453
912.615	-0.0015476	0.0001394
914.544	-0.002219	0.000143
916.473	-0.0017355	0.0001368
918.403	-0.001265	0.0001424
920.332	-0.0003415	0.000134
922.262	-0.0001483	0.0001514

Methanol 20.00 Mole % 33.0 Torr MS20AV2
MS20AD2

WN (cm-1)	AVE (A.U.)	AD (A.U.)
924.191	0.0001887	0.0001389
926.12	0.0001365	0.0001532
928.05	0.0000985	0.0001456
929.979	0.0006733	0.0001651
931.909	0.0024269	0.0001577
933.838	0.0030775	0.0001801
935.767	0.001937	0.000177
937.697	0.0022193	0.0001529
939.626	0.0036705	0.0001922
941.555	0.0039336	0.0001638
943.485	0.0039959	0.0001791
945.414	0.0043397	0.0001937
947.344	0.0053298	0.0001736
949.273	0.0048942	0.0001602
951.202	0.0082268	0.000167
953.132	0.0100416	0.0001919
955.061	0.0131736	0.0002224
956.991	0.0148018	0.0002218
958.92	0.0199823	0.0002022
960.849	0.0253875	0.0002378
962.779	0.0297608	0.0002581
964.708	0.0357737	0.0002549
966.637	0.0438516	0.0002467
968.567	0.0576069	0.00041
970.496	0.0642315	0.0003919
972.426	0.0777499	0.0003457
974.355	0.095488	0.000427
976.284	0.117108	0.0005625
978.214	0.142528	0.0006769
980.143	0.171683	0.0008711
982.072	0.196603	0.0010477
984.002	0.224345	0.0012683
985.931	0.253769	0.0014119
987.861	0.289025	0.0016599
989.79	0.328418	0.0018089
991.719	0.371895	0.0019666
993.649	0.419489	0.0021261
995.578	0.46809	0.0023962
997.508	0.518128	0.002598
999.437	0.569947	0.0027659
1001.36	0.62109	0.0029496
1003.29	0.67113	0.0030685
1005.22	0.710212	0.0032889
1007.15	0.747928	0.0034927
1009.08	0.77445	0.003612

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1011.01	0.79709	0.0036413
1012.94	0.810091	0.0037323
1014.87	0.812719	0.0034775
1016.8	0.804356	0.0033003
1018.73	0.765058	0.0033979
1020.66	0.698562	0.0031941
1022.59	0.608986	0.0031405
1024.51	0.530336	0.0030416
1026.44	0.452742	0.0027699
1028.37	0.427088	0.0019668
1030.3	0.563101	0.0020975
1032.23	1.2173	0.0070965
1034.16	1.09435	0.0095025
1036.09	0.394737	0.0031444
1038.02	0.331091	0.0017352
1039.95	0.366807	0.0014925
1041.88	0.487695	0.0023173
1043.81	0.6091	0.0033317
1045.74	0.741899	0.0045152
1047.67	0.874738	0.0052967
1049.6	0.983075	0.005841
1051.53	1.07949	0.0064643
1053.45	1.14033	0.0061627
1055.38	1.17771	0.0070497
1057.31	1.18584	0.0068876
1059.24	1.16044	0.0065161
1061.17	1.10319	0.006345
1063.1	1.00551	0.0055425
1065.03	0.888259	0.0046655
1066.96	0.760265	0.0041479
1068.89	0.637288	0.0034191
1070.82	0.515106	0.0026785
1072.75	0.410418	0.0022006
1074.68	0.312345	0.0016479
1076.61	0.222911	0.0011205
1078.54	0.16207	0.0008835
1080.47	0.119122	0.0006595
1082.39	0.0847091	0.0005488
1084.32	0.0622883	0.0004916
1086.25	0.0480341	0.0004518
1088.18	0.0383184	0.000393
1090.11	0.0346241	0.0003994
1092.04	0.0345576	0.0003977
1093.97	0.0381829	0.0004237
1095.9	0.0298028	0.0004102

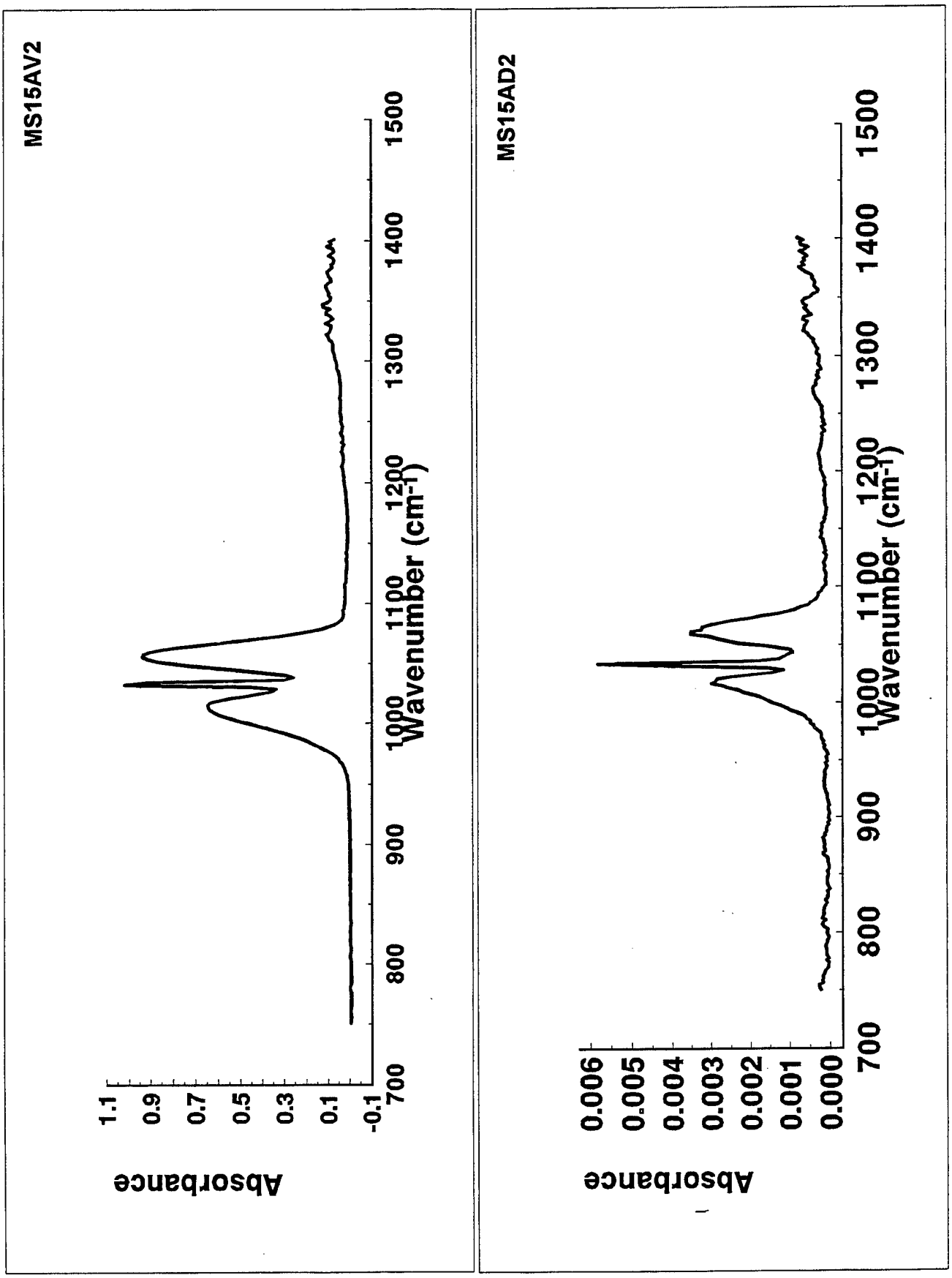
Methanol 20.00 Mole % 33.0 Torr MS20AV2
MS20AD2

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1097.83	0.0306215	0.0004695
1099.76	0.0265385	0.000433
1101.69	0.0253109	0.000395
1103.62	0.0243138	0.0004078
1105.55	0.0260141	0.0003932
1107.48	0.0248544	0.0004479
1109.41	0.0233871	0.000402
1111.33	0.0242289	0.0003954
1113.26	0.0250429	0.0003822
1115.19	0.0277361	0.0003823
1117.12	0.0200334	0.0003739
1119.05	0.0187366	0.000361
1120.98	0.019378	0.0003393
1122.91	0.0190313	0.0002752
1124.84	0.0186294	0.0003321
1126.77	0.0164413	0.000284
1128.7	0.0157337	0.0002938
1130.63	0.0144798	0.0003286
1132.56	0.0136419	0.0003138
1134.49	0.0159429	0.0002847
1136.42	0.0188772	0.0003542
1138.34	0.0137615	0.0003132
1140.27	0.0135367	0.0003118
1142.2	0.0168242	0.0003337
1144.13	0.0136406	0.0002821
1146.06	0.0114986	0.0003293
1147.99	0.0121122	0.000272
1149.92	0.0105314	0.0003173
1151.85	0.0096496	0.0003231
1153.78	0.0098246	0.0002995
1155.71	0.0081131	0.0003044
1157.64	0.0102387	0.000308
1159.57	0.0099279	0.0003422
1161.5	0.0103324	0.00031
1163.43	0.01065	0.0002705
1165.36	0.011438	0.0003205
1167.28	0.0077602	0.0003112
1169.21	0.0076711	0.0002676
1171.14	0.007853	0.0002878
1173.07	0.0083974	0.0002755
1175	0.01036	0.0003303
1176.93	0.0106053	0.0003121
1178.86	0.0108349	0.0003417
1180.79	0.0121601	0.0003128
1182.72	0.0143545	0.0003192

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1184.65	0.0153761	0.0003123
1186.58	0.0166016	0.0003271
1188.51	0.0177728	0.000329
1190.44	0.0177164	0.0003089
1192.37	0.0191821	0.0003059
1194.3	0.02083	0.0003438
1196.22	0.024025	0.000355
1198.15	0.0259163	0.0003781
1200.08	0.0259416	0.000342
1202.01	0.0308116	0.0003643
1203.94	0.0297352	0.000399
1205.87	0.0304401	0.000374
1207.8	0.0337872	0.000375
1209.73	0.0334196	0.0003577
1211.66	0.0360951	0.000366
1213.59	0.0413097	0.0004423
1215.52	0.0374263	0.0004316
1217.45	0.0321525	0.0003948
1219.38	0.0324648	0.0003549
1221.31	0.0332498	0.0003524
1223.24	0.034895	0.0003895
1225.16	0.0417686	0.0004213
1227.09	0.037485	0.0004181
1229.02	0.0371376	0.0004372
1230.95	0.0288391	0.0003377
1232.88	0.0397663	0.000403
1234.81	0.0342118	0.0004564
1236.74	0.0325826	0.0003645
1238.67	0.042425	0.0004216
1240.6	0.0451481	0.0004726
1242.53	0.0393839	0.0004495
1244.46	0.0383618	0.0004478
1246.39	0.0374256	0.0004406
1248.32	0.042201	0.000461
1250.25	0.0460262	0.0005
1252.17	0.0437694	0.0004609
1254.1	0.0461857	0.0005055
1256.03	0.048775	0.0004831
1257.96	0.0505589	0.0004707
1259.89	0.0491134	0.0004675
1261.82	0.0494108	0.000525
1263.75	0.0489859	0.0005294
1265.68	0.0484814	0.0004893
1267.61	0.0498336	0.0004709
1269.54	0.0514707	0.000522

Methanol 20.00 Mole % 33.0 Torr MS20AV2
MS20AD2

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1271.47	0.0494558	0.0004944
1273.4	0.0480602	0.000509
1275.33	0.0481839	0.0005325
1277.26	0.047652	0.000491
1279.19	0.048871	0.0005068
1281.11	0.0500976	0.0005111
1283.04	0.0522065	0.0005285
1284.97	0.053812	0.0005854
1286.9	0.0537214	0.0005109
1288.83	0.0560023	0.0005746
1290.76	0.0587151	0.0006058
1292.69	0.0666164	0.0006251
1294.62	0.0728904	0.0006019
1296.55	0.0716085	0.0006534
1298.48	0.072605	0.0006831
1300.41	0.0763613	0.0006641
1302.34	0.0825693	0.0006853
1304.27	0.0838371	0.0007371
1306.2	0.0882277	0.0007126
1308.13	0.0947161	0.0007457
1310.05	0.0951951	0.000845
1311.98	0.0946749	0.0007764
1313.91	0.0932619	0.0007688
1315.84	0.0988192	0.0007192
1317.77	0.115461	0.0007975
1319.7	0.118406	0.0008613
1321.63	0.130299	0.0009368
1323.56	0.117117	0.0008913
1325.49	0.110668	0.0008471
1327.42	0.104736	0.0007491
1329.35	0.107065	0.0007056
1331.28	0.134693	0.0009845
1333.21	0.114211	0.001113
1335.14	0.0948334	0.0007181
1337.06	0.103823	0.0005797
1338.99	0.127172	0.0007657
1340.92	0.129322	0.0012477
1342.85	0.111885	0.0009575
1344.78	0.14693	0.0008408
1346.71	0.155818	0.0011968
1348.64	0.126188	0.0011026
1350.57	0.109079	0.0009225
1352.5	0.107123	0.000757
1354.43	0.117275	0.0008731
1356.36	0.117018	0.0009598
1358.29	0.123951	0.0008949
1360.22	0.127908	0.000813
1362.15	0.128931	0.0009028
1364.08	0.119176	0.0011066
1366	0.105649	0.00075
1367.93	0.105744	0.0007227
1369.86	0.114691	0.0007603
1371.79	0.121366	0.0007829
1373.72	0.122569	0.0007848
1375.65	0.110374	0.0009776
1377.58	0.0978557	0.0007172
1379.51	0.104249	0.0007956
1381.44	0.0930315	0.0007953
1383.37	0.0876393	0.0006519
1385.3	0.0933951	0.0005204
1387.23	0.111052	0.0009439
1389.16	0.0999836	0.001236
1391.09	0.0874825	0.0007866
1393.02	0.0921169	0.0003778
1394.94	0.11631	0.0007534
1396.87	0.0984001	0.0008725
1398.8	0.105809	0.0009415
1400.73	0.0842851	0.001106


MS15AV2
Absorbance
1.1
0.9
0.7
0.5
0.3
0.1
-0.1
700
800
900
1000
1100
1200
1300
1400
1500
Wavenumber (cm-1)
MS15AD2
Absorbance
0.006
0.005
0.004
0.003
0.002
0.001
0.000
700
800
900
1000
1100
1200
1300
1400
1500
Wavenumber (cm-1)

Methanol 15.00 Mole % 26.8 Torr MS15AV2
MS15AD2

WN (cm-1)	AVE (A.U.)	AD (A.U.)
750.547	-0.0060517	0.0002352
752.476	-0.0068221	0.0002603
754.405	-0.0070793	0.0002691
756.335	-0.0071579	0.0001689
758.264	-0.0058901	0.0001904
760.194	-0.0060401	0.0001705
762.123	-0.0063455	0.0001807
764.052	-0.0073095	0.0001384
765.982	-0.0074371	0.0001284
767.911	-0.0073168	0.0000788
769.84	-0.0074056	0.0000463
771.77	-0.0071339	0.0000401
773.699	-0.0076417	0.0000252
775.629	-0.0079217	0.0000806
777.558	-0.0045607	0.0000385
779.487	-0.0023322	0.0000748
781.417	-0.0053791	0.0000848
783.346	-0.0078955	0.0000875
785.275	-0.0077871	0.0000852
787.205	-0.0077724	0.000105
789.134	-0.0075816	0.0001065
791.064	-0.0068438	0.0000769
792.993	-0.0066799	0.0000745
794.922	-0.005855	0.0000356
796.852	-0.0058083	0.0000322
798.781	-0.0060895	0.0000748
800.711	-0.0059551	0.0000756
802.64	-0.0058445	0.0000568
804.569	-0.0053834	0.000139
806.499	-0.004288	0.0001871
808.428	-0.0055073	0.0001766
810.357	-0.006501	0.0001088
812.287	-0.0062899	0.0001969
814.216	-0.0057941	0.0001667
816.146	-0.0048223	0.0001506
818.075	-0.0044748	0.0001602
820.004	-0.0030072	0.0001509
821.934	-0.0047735	0.0001312
823.863	-0.005619	0.0001023
825.792	-0.0052671	0.0000833
827.722	-0.0042985	0.0001114
829.651	-0.0050212	0.0000546
831.581	-0.0054782	0.0000563
833.51	-0.0063777	0.000044
835.439	-0.0062183	0.0000567

WN (cm-1)	AVE (A.U.)	AD (A.U.)
837.369	-0.0051659	3.44E-06
839.298	-0.0047509	0.0000367
841.228	-0.0045732	0.00006
843.157	-0.0055124	0.000068
845.086	-0.0052483	0.000062
847.016	-0.005197	0.0000684
848.945	-0.0046344	0.0000467
850.874	-0.0042678	0.0000401
852.804	-0.0043101	0.0000545
854.733	-0.0049402	0.0000219
856.663	-0.0053394	0.0000194
858.592	-0.0042552	0.000029
860.521	-0.0027769	0.0000508
862.451	-0.0038408	0.0000484
864.38	-0.0039996	0.0000611
866.31	-0.0038695	0.0001321
868.239	-0.0043901	0.0001742
870.168	-0.0041442	0.0001104
872.098	-0.0024589	0.0001295
874.027	-0.0020112	0.0001424
875.956	-0.0027784	0.0001278
877.886	-0.0037934	0.0001387
879.815	-0.0040214	0.0001416
881.745	-0.0042695	0.0001686
883.674	-0.003772	0.0001171
885.603	-0.003125	0.0001274
887.533	-0.0031619	0.0000788
889.462	-0.0037661	0.0000875
891.392	-0.0042913	0.0000744
893.321	-0.0042308	0.0000324
895.25	-0.0033852	0.0000516
897.18	-0.002036	0.0000161
899.109	-0.0005928	0.0000322
901.038	-0.0027979	0.0000243
902.968	-0.0038054	0.0000103
904.897	-0.0036981	0.0000204
906.827	-0.0024318	0.0000345
908.756	-0.0014633	0.0000427
910.685	-0.001514	0.0000123
912.615	-0.0014503	0.0000374
914.544	-0.0020342	0.0000403
916.473	-0.0016927	0.0000647
918.403	-0.0011524	0.0000691
920.332	-0.0002501	0.0000682
922.262	-0.000224	0.0001023

Methanol 15.00 Mole % 26.8 Torr MS15AV2 MS15AD2

WN (cm-1)	AVE (A.U.)	AD (A.U.)
924.191	8.79E-06	0.000112
926.12	-0.0001907	0.0001309
928.05	-0.0004073	0.0001242
929.979	0.0002063	0.0001334
931.909	0.0016497	0.0001378
933.838	0.0020804	0.0001282
935.767	0.00109	0.0001271
937.697	0.0011637	0.0001183
939.626	0.0021802	0.0001269
941.555	0.002329	0.0001213
943.485	0.0024219	0.0000807
945.414	0.0027135	0.0000724
947.344	0.0034732	0.0001036
949.273	0.0030428	0.0000638
951.202	0.0054273	0.0000729
953.132	0.0068141	0.0000814
955.061	0.0093541	0.00005
956.991	0.0107357	0.000066
958.92	0.0148262	0.0001038
960.849	0.0188545	0.0001335
962.779	0.0221998	0.0001289
964.708	0.0269532	0.0001542
966.637	0.0334287	0.0001484
968.567	0.0443762	0.000204
970.496	0.0496635	0.0002032
972.426	0.060278	0.0002004
974.355	0.0743272	0.0002405
976.284	0.0915765	0.0003097
978.214	0.112013	0.0003721
980.143	0.135403	0.0003925
982.072	0.155356	0.0004734
984.002	0.177394	0.0004753
985.931	0.200832	0.0005565
987.861	0.22917	0.0006002
989.79	0.260673	0.0006743
991.719	0.295328	0.0008213
993.649	0.333072	0.0009938
995.578	0.371412	0.0010859
997.508	0.411186	0.0011921
999.437	0.452544	0.0014021
1001.36	0.494173	0.0015299
1003.29	0.535102	0.0016332
1005.22	0.566833	0.0017423
1007.15	0.596828	0.0019525
1009.08	0.617913	0.0021919

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1011.01	0.63409	0.0023127
1012.94	0.643013	0.002565
1014.87	0.644129	0.0026877
1016.8	0.635574	0.0029782
1018.73	0.60165	0.0028805
1020.66	0.548161	0.0028442
1022.59	0.475356	0.0025084
1024.51	0.412858	0.0019111
1026.44	0.353421	0.0014213
1028.37	0.33753	0.0011556
1030.3	0.456811	0.0015884
1032.23	1.01626	0.0039509
1034.16	0.910076	0.0057973
1036.09	0.301037	0.0017795
1038.02	0.258764	0.0012792
1039.95	0.292732	0.0011493
1041.88	0.390741	0.0010568
1043.81	0.489234	0.0009173
1045.74	0.596432	0.0009835
1047.67	0.703239	0.0013162
1049.6	0.790491	0.001666
1051.53	0.86599	0.0022932
1053.45	0.911375	0.0025702
1055.38	0.935229	0.0028486
1057.31	0.932655	0.0030412
1059.24	0.905262	0.0035038
1061.17	0.853435	0.0035102
1063.1	0.774604	0.0032303
1065.03	0.681701	0.0032183
1066.96	0.581767	0.003049
1068.89	0.487439	0.0027822
1070.82	0.393299	0.0024701
1072.75	0.312802	0.0020028
1074.68	0.237574	0.0017416
1076.61	0.16946	0.0013198
1078.54	0.122772	0.0010405
1080.47	0.0900435	0.0008524
1082.39	0.0638791	0.0006908
1084.32	0.0468167	0.0005185
1086.25	0.0360589	0.0004736
1088.18	0.0288672	0.0003748
1090.11	0.0260781	0.0003185
1092.04	0.0260499	0.000282
1093.97	0.0285352	0.000274
1095.9	0.0219968	0.0002095

Methanol 15.00 Mole % 26.8 Torr MS15AV2
MS15AD2

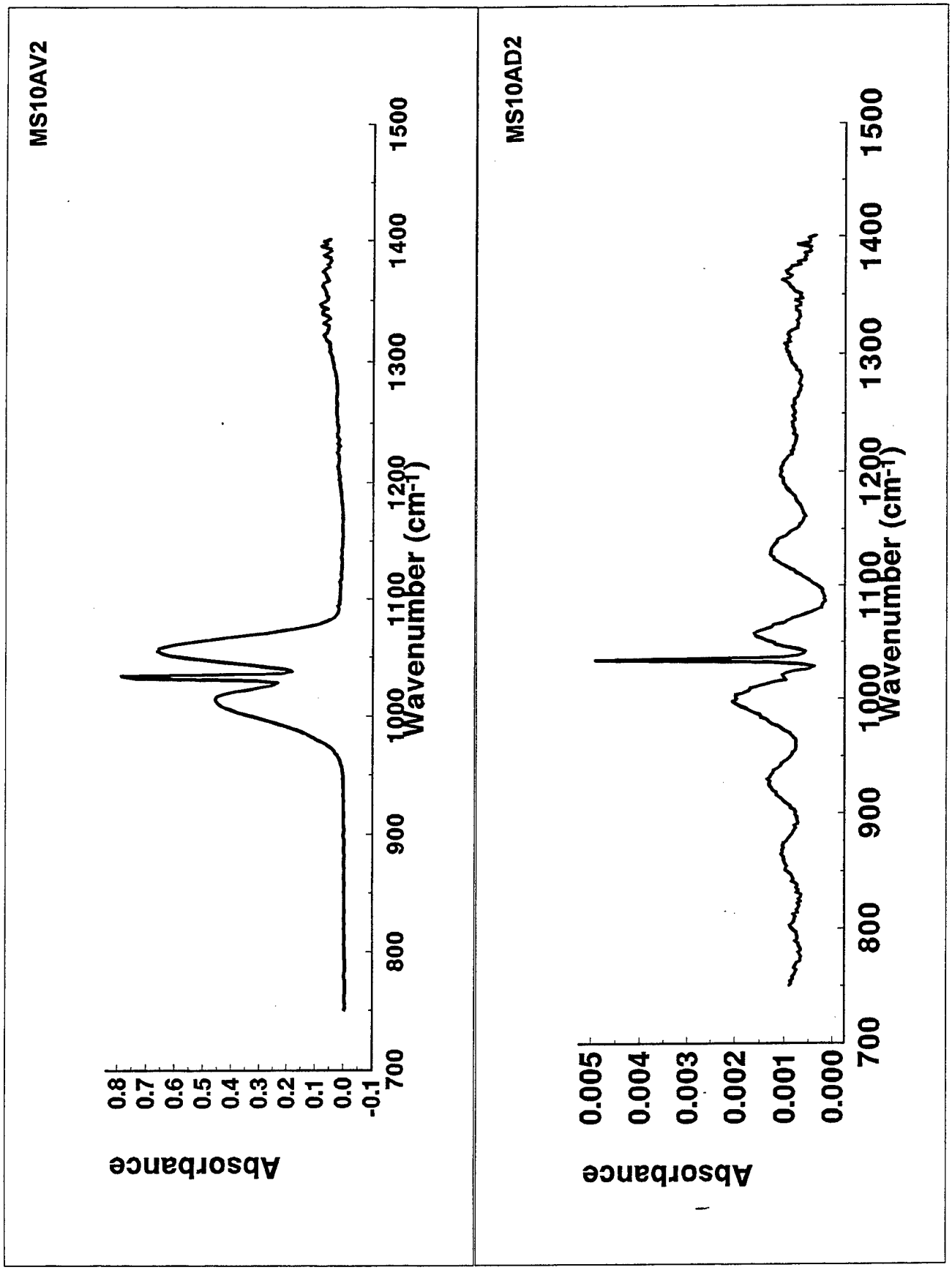
WN (cm-1)	AVE (A.U.)	AD (A.U.)
1097.83	0.0228153	0.000189
1099.76	0.0196252	0.000135
1101.69	0.0188731	0.0000882
1103.62	0.0181427	0.0000946
1105.55	0.0195146	0.0001142
1107.48	0.0187403	0.0000879
1109.41	0.0175858	0.0000912
1111.33	0.0184704	0.0000912
1113.26	0.0191599	0.0001181
1115.19	0.0209508	0.0001359
1117.12	0.0149253	0.0001086
1119.05	0.0140488	0.0001317
1120.98	0.0145982	0.0001382
1122.91	0.0143405	0.0001096
1124.84	0.0138774	0.0000883
1126.77	0.012157	0.0000812
1128.7	0.0116261	0.0001227
1130.63	0.0107206	0.0000991
1132.56	0.0100129	0.0001194
1134.49	0.0118324	0.0001157
1136.42	0.0140194	0.000143
1138.34	0.0100722	0.0001474
1140.27	0.009896	0.0001534
1142.2	0.0122308	0.0002273
1144.13	0.0097274	0.000203
1146.06	0.0082161	0.0001913
1147.99	0.0085158	0.000208
1149.92	0.007335	0.0001887
1151.85	0.0067421	0.0001778
1153.78	0.0067154	0.0001909
1155.71	0.0055243	0.0001451
1157.64	0.0072473	0.000116
1159.57	0.0071136	0.0001246
1161.5	0.0074943	0.0000943
1163.43	0.0077868	0.0000849
1165.36	0.0084104	0.0000913
1167.28	0.0055764	0.0000623
1169.21	0.005526	0.0000852
1171.14	0.0056839	0.0001067
1173.07	0.0063159	0.0001197
1175	0.0079407	0.000121
1176.93	0.0079517	0.0001075
1178.86	0.008154	0.0001278
1180.79	0.0092784	0.0001187
1182.72	0.0110513	0.000128

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1184.65	0.0120631	0.0001264
1186.58	0.0130422	0.0001063
1188.51	0.013926	0.000098
1190.44	0.0137434	0.0001171
1192.37	0.0150531	0.0001373
1194.3	0.0163716	0.0001173
1196.22	0.0187236	0.0001485
1198.15	0.0202029	0.0001689
1200.08	0.0203757	0.0002032
1202.01	0.0240174	0.0002157
1203.94	0.0228286	0.0002056
1205.87	0.023552	0.0002272
1207.8	0.0262397	0.0002277
1209.73	0.025875	0.0002325
1211.66	0.028376	0.0002465
1213.59	0.0321404	0.0002562
1215.52	0.0287771	0.0002704
1217.45	0.0249372	0.0002458
1219.38	0.0253836	0.0002299
1221.31	0.0260549	0.0002092
1223.24	0.027285	0.0002124
1225.16	0.0325621	0.0001943
1227.09	0.0290752	0.0001838
1229.02	0.0285905	0.0001816
1230.95	0.0226561	0.000169
1232.88	0.0310465	0.0001793
1234.81	0.0265952	0.0001104
1236.74	0.0257045	0.0001485
1238.67	0.0334641	0.0001823
1240.6	0.0351198	0.0001135
1242.53	0.0306298	0.0001433
1244.46	0.0301794	0.0001415
1246.39	0.0294622	0.0001796
1248.32	0.0332188	0.0001679
1250.25	0.0358723	0.0001599
1252.17	0.0341899	0.0001734
1254.1	0.0360782	0.0001877
1256.03	0.038067	0.0001702
1257.96	0.0392827	0.0002243
1259.89	0.0383843	0.0002427
1261.82	0.0382639	0.0002848
1263.75	0.0377536	0.0003276
1265.68	0.0375316	0.0003569
1267.61	0.0384667	0.0003815
1269.54	0.0397088	0.0003872

Methanol 15.00 Mole % 26.8 Torr MS15AV2
MS15AD2

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1271.47	0.0381937	0.0003948
1273.4	0.0368667	0.0003843
1275.33	0.0368933	0.0003259
1277.26	0.0365741	0.00033
1279.19	0.0375332	0.0003118
1281.11	0.0385104	0.0002585
1283.04	0.0400684	0.0003049
1284.97	0.0412325	0.0002717
1286.9	0.0414627	0.0002756
1288.83	0.0436425	0.0001953
1290.76	0.0456691	0.0002159
1292.69	0.0517691	0.0002717
1294.62	0.0563299	0.0002443
1296.55	0.055601	0.0002468
1298.48	0.0565693	0.0002421
1300.41	0.0595242	0.0002498
1302.34	0.0643166	0.0003086
1304.27	0.0650857	0.0002988
1306.2	0.0687561	0.0002756
1308.13	0.0741374	0.0003218
1310.05	0.0738098	0.0003506
1311.98	0.0741448	0.0003914
1313.91	0.0732588	0.0003733
1315.84	0.077696	0.0004429
1317.77	0.0913527	0.0004974
1319.7	0.093724	0.0005309
1321.63	0.1012	0.0006232
1323.56	0.0903956	0.0006088
1325.49	0.0855226	0.0006038
1327.42	0.081293	0.0005553
1329.35	0.0838309	0.0005237
1331.28	0.105248	0.0006293
1333.21	0.0874909	0.0006178
1335.14	0.074038	0.0004403
1337.06	0.0835839	0.0004945
1338.99	0.103723	0.0005477
1340.92	0.102781	0.0005993
1342.85	0.0874305	0.0005476
1344.78	0.115882	0.0006329
1346.71	0.120508	0.00065
1348.64	0.0973902	0.0005997
1350.57	0.0844156	0.0004597
1352.5	0.0838717	0.0004172
1354.43	0.0925997	0.0002964
1356.36	0.0919839	0.0002684

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1358.29	0.0976645	0.0003231
1360.22	0.101966	0.0003718
1362.15	0.104585	0.0003492
1364.08	0.0954448	0.0003599
1366	0.0824226	0.0004062
1367.93	0.0839058	0.0004097
1369.86	0.0909189	0.0004488
1371.79	0.0955824	0.0005795
1373.72	0.0998012	0.0006585
1375.65	0.0876729	0.0007317
1377.58	0.0764043	0.0006085
1379.51	0.0811886	0.000663
1381.44	0.071608	0.0006044
1383.37	0.0684524	0.0006157
1385.3	0.0742949	0.0005429
1387.23	0.0918584	0.0006101
1389.16	0.0780334	0.0007127
1391.09	0.0686423	0.0005785
1393.02	0.0742923	0.0005222
1394.94	0.0988587	0.0006853
1396.87	0.0802777	0.0007049
1398.8	0.088346	0.0006393
1400.73	0.0665272	0.0007751


MS10AV2
Absorbance
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
-0.1
700
800
900
1000
1100
1200
1300
1400
1500
Wavenumber (cm-1)
MS10AD2
Absorbance
0.005
0.004
0.003
0.002
0.001
0.000
700
800
900
1000
1100
1200
1300
1400
1500
Wavenumber (cm-1)

Methanol 10.00 Mole % 19.5 Torr MS10AV2
MS10AD2

WN (cm-1)	AVE (A.U.)	AD (A.U.)
750.547	-0.0041043	0.0008909
752.476	-0.0045001	0.0008562
754.405	-0.0049224	0.0008729
756.335	-0.0047201	0.0008285
758.264	-0.0039011	0.0008295
760.194	-0.0040228	0.0007939
762.123	-0.0042008	0.000777
764.052	-0.005015	0.0007578
765.982	-0.0051415	0.000799
767.911	-0.0049676	0.000776
769.84	-0.0050333	0.0007566
771.77	-0.0045759	0.0006842
773.699	-0.0052137	0.0006758
775.629	-0.0053897	0.0006603
777.558	-0.0032145	0.000689
779.487	-0.0016255	0.000708
781.417	-0.0032967	0.0006655
783.346	-0.005241	0.0006785
785.275	-0.005246	0.0007153
787.205	-0.0052462	0.0007095
789.134	-0.0052319	0.000773
791.064	-0.0047904	0.0007383
792.993	-0.0045544	0.0007395
794.922	-0.0036812	0.0007504
796.852	-0.0037644	0.000756
798.781	-0.0041175	0.0008116
800.711	-0.0036569	0.0008638
802.64	-0.0036173	0.0008853
804.569	-0.0033329	0.0008421
806.499	-0.00224	0.0007989
808.428	-0.0032119	0.0007914
810.357	-0.0042607	0.0007741
812.287	-0.0041042	0.0008105
814.216	-0.0036223	0.0007244
816.146	-0.0028466	0.0007467
818.075	-0.0024905	0.0007196
820.004	-0.0015291	0.0006957
821.934	-0.0029072	0.0007237
823.863	-0.0034077	0.000666
825.792	-0.0028516	0.0007078
827.722	-0.0019114	0.0006642
829.651	-0.0024674	0.0006579
831.581	-0.002881	0.0007445
833.51	-0.0037048	0.0007123
835.439	-0.0034414	0.0007587

WN (cm-1)	AVE (A.U.)	AD (A.U.)
837.369	-0.0026925	0.0007326
839.298	-0.0023833	0.0007658
841.228	-0.0023113	0.0008442
843.157	-0.0032375	0.000817
845.086	-0.0029572	0.0008354
847.016	-0.0029356	0.0008648
848.945	-0.002498	0.0009061
850.874	-0.0021109	0.000976
852.804	-0.0023742	0.000972
854.733	-0.0031749	0.0009566
856.663	-0.0034282	0.0009885
858.592	-0.0026982	0.0010112
860.521	-0.0013849	0.0010178
862.451	-0.0019447	0.0010181
864.38	-0.0019872	0.0010673
866.31	-0.0020355	0.0010372
868.239	-0.0028153	0.0010489
870.168	-0.0026342	0.0010212
872.098	-0.0012499	0.0010365
874.027	-0.0004708	0.0010233
875.956	-0.000996	0.000961
877.886	-0.001852	0.0009243
879.815	-0.0021036	0.0008905
881.745	-0.0022877	0.0008506
883.674	-0.001889	0.0008263
885.603	-0.0011811	0.0007999
887.533	-0.0010597	0.0007734
889.462	-0.0015826	0.0007931
891.392	-0.0021294	0.0007245
893.321	-0.0020855	0.0007307
895.25	-0.0013332	0.000741
897.18	-2.13E-06	0.000742
899.109	0.0010541	0.0007818
901.038	-0.0005181	0.0007771
902.968	-0.0015598	0.0007859
904.897	-0.001757	0.0008724
906.827	-0.0008289	0.0008816
908.756	0.0001589	0.0009422
910.685	0.000172	0.0010174
912.615	0.0000509	0.0010532
914.544	-0.0008725	0.0011184
916.473	-0.0007395	0.0011637
918.403	-0.0001974	0.0011691
920.332	0.0005948	0.0012422
922.262	0.000483	0.0012687

Methanol 10.00 Mole % 19.5 Torr MS10AV2
MS10AD2

WN (cm-1)	AVE (A.U.)	AD (A.U.)
924.191	0.0003788	0.0013017
926.12	0.0000985	0.0013137
928.05	-0.0002746	0.001306
929.979	0.0001329	0.0013421
931.909	0.0013862	0.0013064
933.838	0.0017391	0.0012803
935.767	0.0008496	0.0012435
937.697	0.0005236	0.0012217
939.626	0.0011411	0.0011419
941.555	0.0013781	0.0010818
943.485	0.0015992	0.0010722
945.414	0.0018079	0.0010127
947.344	0.0024443	0.0009411
949.273	0.0019645	0.0008889
951.202	0.0033503	0.0008509
953.132	0.0042592	0.0008461
955.061	0.006202	0.0007791
956.991	0.0072815	0.0007741
958.92	0.0101256	0.000763
960.849	0.0127407	0.0007672
962.779	0.0149312	0.0007625
964.708	0.018281	0.0007781
966.637	0.0228434	0.0008273
968.567	0.0304893	0.000862
970.496	0.0342275	0.0009005
972.426	0.041536	0.0010091
974.355	0.0511179	0.0010656
976.284	0.0631127	0.0011313
978.214	0.0776534	0.0012679
980.143	0.0942646	0.0013224
982.072	0.108103	0.0013645
984.002	0.123466	0.0014779
985.931	0.139521	0.0015023
987.861	0.159354	0.0016179
989.79	0.181666	0.0017124
991.719	0.206593	0.0017865
993.649	0.233486	0.0019073
995.578	0.260538	0.001973
997.508	0.288558	0.002046
999.437	0.318186	0.0019799
1001.36	0.348376	0.0019823
1003.29	0.378394	0.001988
1005.22	0.401877	0.0018486
1007.15	0.423791	0.0017256
1009.08	0.438899	0.0016937

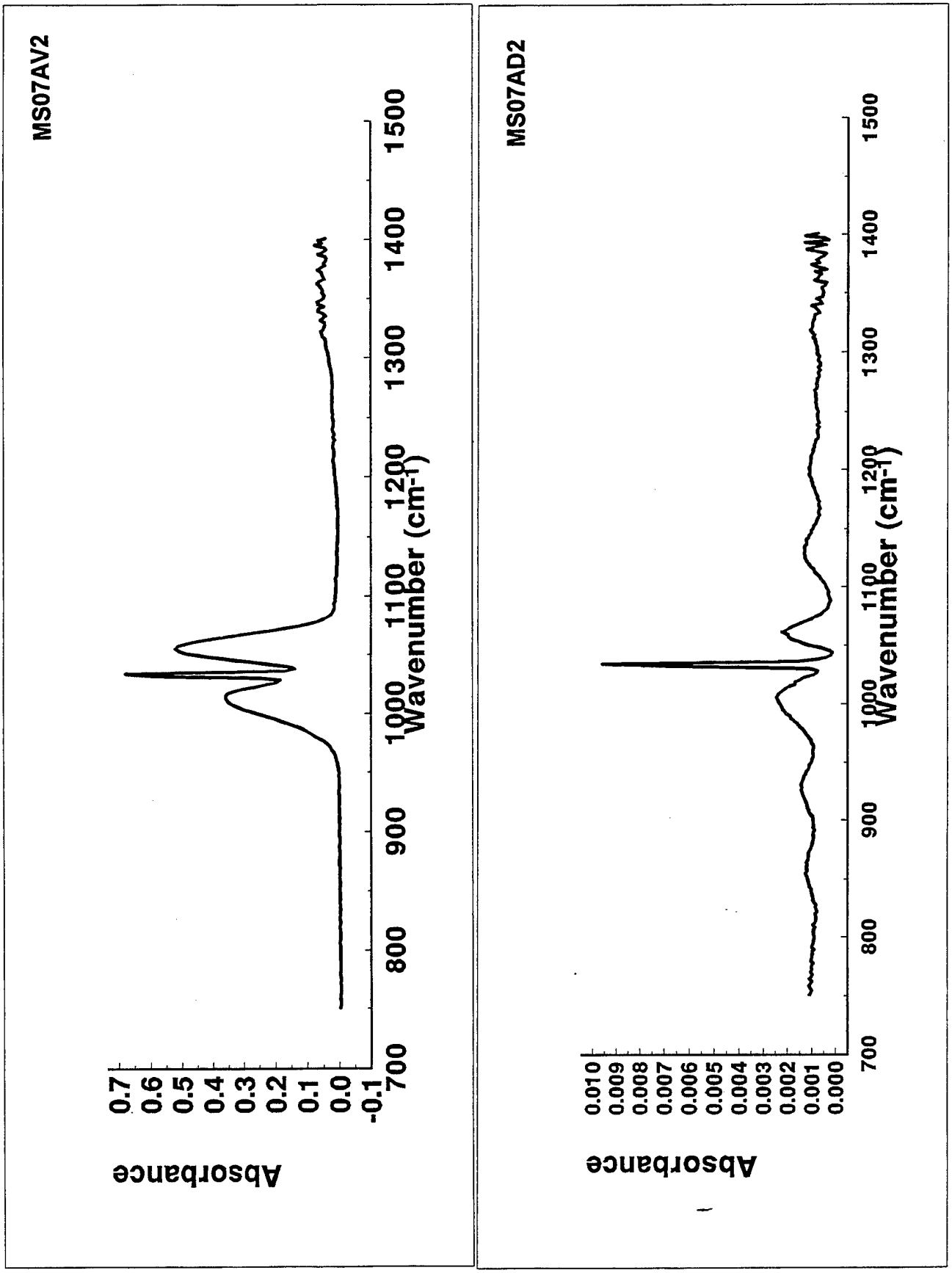
WN (cm-1)	AVE (A.U.)	AD (A.U.)
1011.01	0.450037	0.0015397
1012.94	0.45637	0.0013845
1014.87	0.457103	0.0012183
1016.8	0.451374	0.0009776
1018.73	0.42702	0.0010165
1020.66	0.389699	0.0010414
1022.59	0.337711	0.0009772
1024.51	0.292838	0.0008088
1026.44	0.249611	0.0004799
1028.37	0.235078	0.0003851
1030.3	0.314346	0.0006402
1032.23	0.732572	0.0013112
1034.16	0.786201	0.004907
1036.09	0.219849	0.0011284
1038.02	0.183085	0.000743
1039.95	0.204387	0.0006073
1041.88	0.273188	0.0005805
1043.81	0.3444	0.0007127
1045.74	0.422315	0.0009845
1047.67	0.499804	0.0011765
1049.6	0.562912	0.0012219
1051.53	0.615828	0.0013716
1053.45	0.647042	0.0014618
1055.38	0.660771	0.0015883
1057.31	0.655868	0.0016113
1059.24	0.633056	0.0015646
1061.17	0.594735	0.0014111
1063.1	0.539807	0.0012641
1065.03	0.474911	0.0012278
1066.96	0.405702	0.0010175
1068.89	0.340511	0.0009413
1070.82	0.274963	0.0008519
1072.75	0.219172	0.0006963
1074.68	0.167333	0.0005717
1076.61	0.11971	0.0004464
1078.54	0.0867975	0.0003314
1080.47	0.0638089	0.0002337
1082.39	0.0456526	0.0002272
1084.32	0.0335118	0.0002031
1086.25	0.0261885	0.0001531
1088.18	0.0212914	0.0001823
1090.11	0.0190678	0.0001802
1092.04	0.0187379	0.0001942
1093.97	0.0206814	0.0002232
1095.9	0.0160558	0.0002153

Methanol 10.00 Mole % 19.5 Torr MS10AV2 MS10AD2

WN (cm-1)	AVE (A.U.)	AD (A.U.)	WN (cm-1)	AVE (A.U.)	AD (A.U.)
1097.83	0.016513	0.000261	1184.65	0.0089048	0.0009357
1099.76	0.0143417	0.0003268	1186.58	0.009596	0.0009777
1101.69	0.0136718	0.0004086	1188.51	0.0102861	0.0009874
1103.62	0.0129868	0.0004643	1190.44	0.0101657	0.0010313
1105.55	0.0135835	0.0005291	1192.37	0.0111479	0.0010319
1107.48	0.0131904	0.0006122	1194.3	0.0120329	0.0010328
1109.41	0.0122644	0.0006726	1196.22	0.0135946	0.0010902
1111.33	0.0127657	0.0007831	1198.15	0.0148727	0.0010905
1113.26	0.0133218	0.0008074	1200.08	0.0149179	0.0010731
1115.19	0.0146346	0.0009094	1202.01	0.0173371	0.0010856
1117.12	0.0103589	0.0009876	1203.94	0.0167424	0.0010837
1119.05	0.0095179	0.0010779	1205.87	0.0170863	0.0010473
1120.98	0.0100972	0.0011397	1207.8	0.019087	0.0010421
1122.91	0.0099679	0.0012193	1209.73	0.0190149	0.0010026
1124.84	0.0095207	0.0012281	1211.66	0.0207151	0.0009705
1126.77	0.0082201	0.0012985	1213.59	0.0234111	0.0009395
1128.7	0.007917	0.0012861	1215.52	0.0212384	0.0008581
1130.63	0.0073855	0.0012881	1217.45	0.0185089	0.0008791
1132.56	0.0067907	0.0012762	1219.38	0.0187239	0.0008332
1134.49	0.0081213	0.0012413	1221.31	0.0189268	0.0008413
1136.42	0.009968	0.0012043	1223.24	0.0199089	0.0008162
1138.34	0.0073889	0.0011609	1225.16	0.0237045	0.0007944
1140.27	0.0070602	0.0011517	1227.09	0.0212969	0.0007826
1142.2	0.0086468	0.0010749	1229.02	0.0210959	0.0007772
1144.13	0.0069472	0.0009741	1230.95	0.0167177	0.0007647
1146.06	0.0060023	0.0009131	1232.88	0.0223084	0.0008232
1147.99	0.0061708	0.0008676	1234.81	0.019586	0.0008085
1149.92	0.0055553	0.0007681	1236.74	0.0186781	0.0008154
1151.85	0.0050594	0.0007181	1238.67	0.0239063	0.0008476
1153.78	0.0048359	0.0006908	1240.6	0.0253134	0.0008355
1155.71	0.0040249	0.000651	1242.53	0.0220937	0.0008604
1157.64	0.0054104	0.0006154	1244.46	0.0220392	0.0007986
1159.57	0.0054477	0.0006141	1246.39	0.021121	0.0008129
1161.5	0.005517	0.000576	1248.32	0.0235235	0.0008382
1163.43	0.0057963	0.0006114	1250.25	0.0255773	0.0007977
1165.36	0.0061911	0.0006258	1252.17	0.0242879	0.0008073
1167.28	0.0041983	0.0006438	1254.1	0.0254455	0.0008324
1169.21	0.0042387	0.0006714	1256.03	0.026788	0.0008542
1171.14	0.0043268	0.0006858	1257.96	0.0277731	0.0008066
1173.07	0.0049352	0.0007229	1259.89	0.0272356	0.0008139
1175	0.0062211	0.0007705	1261.82	0.0272539	0.0008154
1176.93	0.0060579	0.0007818	1263.75	0.0266334	0.0007551
1178.86	0.0061994	0.0007924	1265.68	0.0266632	0.0007344
1180.79	0.0067764	0.0008521	1267.61	0.0271444	0.000725
1182.72	0.0080777	0.0008906	1269.54	0.028143	0.0006956

Methanol 10.00 Mole % 19.5 Torr MS10AV2
MS10AD2

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1271.47	0.0273981	0.0006872
1273.4	0.0260024	0.0006659
1275.33	0.0256135	0.0007082
1277.26	0.0254907	0.0006952
1279.19	0.0259982	0.0006827
1281.11	0.0268338	0.0006631
1283.04	0.0277418	0.0006933
1284.97	0.0284106	0.0006967
1286.9	0.0285884	0.0007688
1288.83	0.0305955	0.0007783
1290.76	0.0318322	0.0008251
1292.69	0.0354463	0.0008635
1294.62	0.0387721	0.0008823
1296.55	0.0386861	0.0008903
1298.48	0.03949	0.000919
1300.41	0.041419	0.0009197
1302.34	0.0446147	0.0009644
1304.27	0.045035	0.0009782
1306.2	0.0476646	0.0009598
1308.13	0.0517502	0.001011
1310.05	0.0515498	0.0009092
1311.98	0.0520264	0.0009303
1313.91	0.0520947	0.0009053
1315.84	0.0545419	0.0009383
1317.77	0.0645453	0.0009283
1319.7	0.0673268	0.0008546
1321.63	0.0712989	0.0007514
1323.56	0.063453	0.0007432
1325.49	0.0597469	0.000735
1327.42	0.0566451	0.0007592
1329.35	0.0579275	0.0007243
1331.28	0.0731025	0.0006958
1333.21	0.0621648	0.0007039
1335.14	0.0520645	0.0007154
1337.06	0.0603576	0.0007793
1338.99	0.0766965	0.000779
1340.92	0.0772659	0.0006893
1342.85	0.0614031	0.0006904
1344.78	0.0799395	0.0007869
1346.71	0.0847017	0.0006506
1348.64	0.0694839	0.0006937
1350.57	0.0599085	0.0006771
1352.5	0.0583564	0.0008075
1354.43	0.0653185	0.000835
1356.36	0.0647597	0.0008891
1358.29	0.0684557	0.0009141
1360.22	0.0719235	0.0009531
1362.15	0.0786169	0.0010498
1364.08	0.0734083	0.0009108
1366	0.0578941	0.0008682
1367.93	0.0595551	0.0009525
1369.86	0.0653466	0.0009765
1371.79	0.0677122	0.0008921
1373.72	0.0761317	0.0008706
1375.65	0.0671454	0.0006847
1377.58	0.0551899	0.0007409
1379.51	0.0585118	0.0005795
1381.44	0.0513428	0.0005904
1383.37	0.0486909	0.0005635
1385.3	0.0523411	0.0005903
1387.23	0.0711915	0.0004654
1389.16	0.0594191	0.0004885
1391.09	0.0493048	0.0004677
1393.02	0.0523527	0.0007286
1394.94	0.0801249	0.0004924
1396.87	0.0626622	0.0004887
1398.8	0.0712349	0.0005038
1400.73	0.0518678	0.0003723


MS07AV2
Absorbance
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
-0.1
700
800
900
1000
1100
1200
1300
1400
1500
Wavenumber (cm-1)
MS07AD2
Absorbance
0.010
0.009
0.008
0.007
0.006
0.005
0.004
0.003
0.002
0.001
0.000
700
800
900
1000
1100
1200
1300
1400
1500
Wavenumber (cm-1)

Methanol 7.66 Mole % 15.7 Torr MS07AV2
MS07AD2

WN (cm-1)	AVE (A.U.)	AD (A.U.)
750.547	-0.0044607	0.0010814
752.476	-0.0051497	0.0010333
754.405	-0.0055942	0.0010106
756.335	-0.005605	0.0010688
758.264	-0.0045098	0.0010944
760.194	-0.004805	0.0010515
762.123	-0.0052584	0.0009997
764.052	-0.0059852	0.0010894
765.982	-0.0061189	0.0010068
767.911	-0.0058033	0.0009896
769.84	-0.0058008	0.0010401
771.77	-0.0052929	0.0010052
773.699	-0.0057275	0.0010103
775.629	-0.0059649	0.0009994
777.558	-0.0037785	0.000945
779.487	-0.0028917	0.0010354
781.417	-0.0039545	0.0010017
783.346	-0.0053184	0.0009947
785.275	-0.0054138	0.0009671
787.205	-0.0054829	0.0009752
789.134	-0.0055201	0.0009155
791.064	-0.0047913	0.0009968
792.993	-0.0045581	0.000963
794.922	-0.00374	0.000932
796.852	-0.0038919	0.0009303
798.781	-0.0040013	0.0008936
800.711	-0.0037106	0.000894
802.64	-0.0037319	0.0009218
804.569	-0.003399	0.0009216
806.499	-0.0024524	0.0009205
808.428	-0.0035112	0.0008759
810.357	-0.0044704	0.000946
812.287	-0.004226	0.0008768
814.216	-0.0038415	0.000832
816.146	-0.0030547	0.0008411
818.075	-0.0028866	0.0008315
820.004	-0.0021887	0.0008604
821.934	-0.0033417	0.0007884
823.863	-0.0039211	0.0008247
825.792	-0.003304	0.0008527
827.722	-0.0024586	0.0008276
829.651	-0.0029444	0.0009042
831.581	-0.0033098	0.0009433
833.51	-0.0040806	0.0009452
835.439	-0.0038136	0.0009899

WN (cm-1)	AVE (A.U.)	AD (A.U.)
837.369	-0.0032111	0.0009926
839.298	-0.0028181	0.0010184
841.228	-0.0026104	0.0010183
843.157	-0.0036719	0.0011029
845.086	-0.0035314	0.001102
847.016	-0.0034099	0.0011372
848.945	-0.0028024	0.0011623
850.874	-0.0023871	0.0011846
852.804	-0.0026665	0.0012234
854.733	-0.0033284	0.0012481
856.663	-0.0036891	0.0011946
858.592	-0.0031131	0.0012091
860.521	-0.0019522	0.0012106
862.451	-0.0020876	0.0012017
864.38	-0.0022438	0.0012162
866.31	-0.0021686	0.001153
868.239	-0.0029938	0.0011532
870.168	-0.0029052	0.0011342
872.098	-0.0017209	0.0011342
874.027	-0.000864	0.0010847
875.956	-0.001261	0.0010368
877.886	-0.0021869	0.0010022
879.815	-0.0025104	0.0009848
881.745	-0.0027405	0.0009568
883.674	-0.0023717	0.0009383
885.603	-0.0017964	0.0009294
887.533	-0.0014808	0.0009436
889.462	-0.002141	0.0009323
891.392	-0.0027638	0.0008866
893.321	-0.0027365	0.0009459
895.25	-0.0018797	0.0009237
897.18	-0.000827	0.0009421
899.109	-0.0000231	0.0009438
901.038	-0.0012359	0.000951
902.968	-0.0022839	0.0009735
904.897	-0.0025508	0.0010565
906.827	-0.0017761	0.0011225
908.756	-0.0009579	0.0011407
910.685	-0.0008008	0.001191
912.615	-0.0009302	0.0012004
914.544	-0.0018469	0.0012304
916.473	-0.0017064	0.0012605
918.403	-0.001221	0.0013052
920.332	-0.0005095	0.001351
922.262	-0.0005559	0.001376

Methanol 7.66 Mole % 15.7 Torr MS07AV2 MS07AD2

WN (cm-1)	AVE (A.U.)	AD (A.U.)
924.191	-0.0010093	0.0014114
926.12	-0.0011554	0.0014333
928.05	-0.0016859	0.0014088
929.979	-0.0013183	0.0014466
931.909	-0.0002489	0.0014265
933.838	0.0002106	0.001383
935.767	-0.0006651	0.0013487
937.697	-0.0010508	0.0013391
939.626	-0.0006455	0.0012624
941.555	-0.0005672	0.0012341
943.485	-0.00013	0.0011612
945.414	4.21E-06	0.0011198
947.344	0.0004834	0.0011108
949.273	-0.0000123	0.0010541
951.202	0.0010078	0.0009942
953.132	0.0015946	0.0009863
955.061	0.0033321	0.0009352
956.991	0.0041185	0.0009522
958.92	0.0062663	0.0009559
960.849	0.0082118	0.0009455
962.779	0.0098742	0.0009187
964.708	0.0124871	0.0009364
966.637	0.0161999	0.001025
968.567	0.0222743	0.0010188
970.496	0.0251376	0.0011148
972.426	0.0307578	0.0011578
974.355	0.0382512	0.0012307
976.284	0.0477218	0.0013017
978.214	0.0592537	0.0013662
980.143	0.0725407	0.0014757
982.072	0.0835109	0.0015634
984.002	0.0954249	0.0016384
985.931	0.107914	0.0017553
987.861	0.123673	0.0018771
989.79	0.141466	0.0019046
991.719	0.161286	0.0020625
993.649	0.182481	0.0021344
995.578	0.203962	0.0022025
997.508	0.225896	0.0022473
999.437	0.249427	0.0022946
1001.36	0.273513	0.002352
1003.29	0.297596	0.0024017
1005.22	0.316489	0.0024532
1007.15	0.333688	0.002426
1009.08	0.345368	0.0023632

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1011.01	0.353658	0.00222
1012.94	0.358399	0.0021026
1014.87	0.358269	0.0019443
1016.8	0.35309	0.0017153
1018.73	0.333149	0.001699
1020.66	0.303039	0.0014855
1022.59	0.2618	0.0013494
1024.51	0.227058	0.0009535
1026.44	0.194432	0.000799
1028.37	0.184868	0.000778
1030.3	0.248181	0.0011654
1032.23	0.591493	0.006354
1034.16	0.67678	0.0095865
1036.09	0.169266	0.0015949
1038.02	0.140622	0.000746
1039.95	0.159545	0.0003656
1041.88	0.216045	0.0001977
1043.81	0.273914	0.0001524
1045.74	0.336034	0.0002791
1047.67	0.397408	0.0006123
1049.6	0.446687	0.0010567
1051.53	0.48721	0.00133
1053.45	0.510175	0.0015396
1055.38	0.519187	0.0018758
1057.31	0.512992	0.0019699
1059.24	0.492913	0.0019969
1061.17	0.461227	0.0022157
1063.1	0.417509	0.0020388
1065.03	0.366275	0.0019067
1066.96	0.312064	0.0016739
1068.89	0.261273	0.0014721
1070.82	0.210332	0.0012663
1072.75	0.167147	0.0009837
1074.68	0.127447	0.000837
1076.61	0.0907241	0.0006201
1078.54	0.0654639	0.0005202
1080.47	0.0479713	0.0004037
1082.39	0.0340893	0.0003289
1084.32	0.0248317	0.0002961
1086.25	0.0194151	0.0002813
1088.18	0.0158457	0.0002255
1090.11	0.014118	0.00024
1092.04	0.013762	0.0002909
1093.97	0.0153273	0.0003104
1095.9	0.0116004	0.0003071

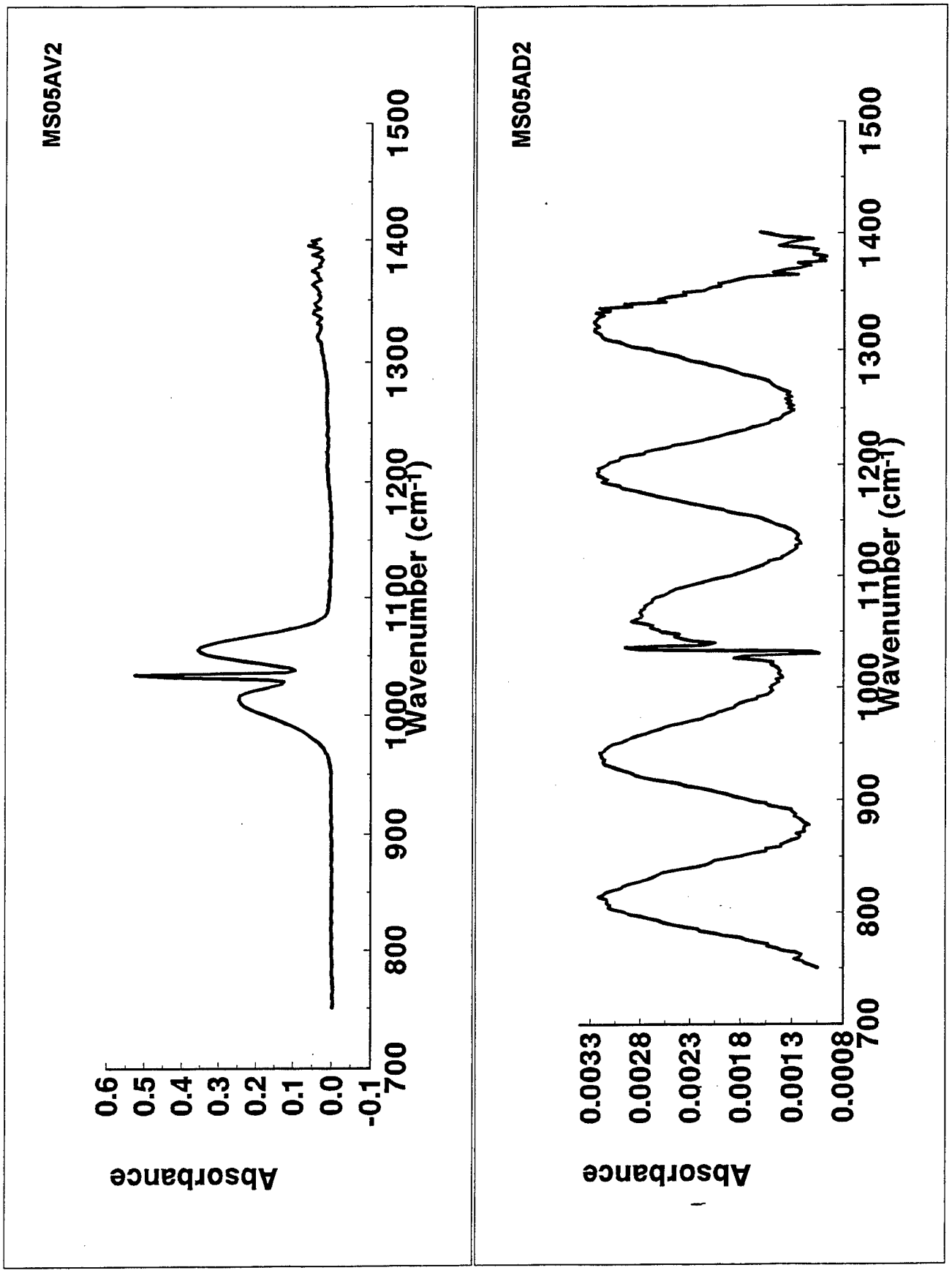
Methanol 7.66 Mole % 15.7 Torr MS07AV2
MS07AD2

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1097.83	0.011902	0.000333
1099.76	0.010132	0.0003983
1101.69	0.0097971	0.0004204
1103.62	0.0092485	0.0004793
1105.55	0.0094854	0.0005781
1107.48	0.0091299	0.000637
1109.41	0.0083809	0.000697
1111.33	0.0087145	0.0008112
1113.26	0.009206	0.0009025
1115.19	0.0101943	0.0009288
1117.12	0.0067416	0.001046
1119.05	0.0060384	0.0011018
1120.98	0.0063969	0.0011805
1122.91	0.0064414	0.0012396
1124.84	0.006282	0.0012864
1126.77	0.0051581	0.0012857
1128.7	0.004935	0.0013276
1130.63	0.0044753	0.0013008
1132.56	0.0041322	0.0013013
1134.49	0.0052996	0.0013157
1136.42	0.0066844	0.0012238
1138.34	0.0046474	0.0012193
1140.27	0.0044211	0.0012313
1142.2	0.0056181	0.0011542
1144.13	0.00417	0.0011197
1146.06	0.0035039	0.0010524
1147.99	0.0037637	0.0010372
1149.92	0.0034556	0.0009592
1151.85	0.0028818	0.0009346
1153.78	0.0027239	0.0008649
1155.71	0.0021253	0.0008218
1157.64	0.0032524	0.0007893
1159.57	0.0033695	0.0007402
1161.5	0.0034322	0.0006989
1163.43	0.0036168	0.0007217
1165.36	0.004001	0.0007235
1167.28	0.0024463	0.0006648
1169.21	0.0024128	0.0007128
1171.14	0.0026496	0.0007197
1173.07	0.0032115	0.0007068
1175	0.0043161	0.0007597
1176.93	0.0041736	0.0007663
1178.86	0.0041327	0.0008215
1180.79	0.0046851	0.0008533
1182.72	0.0057327	0.0008931

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1184.65	0.0065383	0.0009256
1186.58	0.0070896	0.0009696
1188.51	0.0075742	0.0009847
1190.44	0.0075365	0.0010267
1192.37	0.0082951	0.0010258
1194.3	0.0089666	0.0010988
1196.22	0.0104166	0.0011211
1198.15	0.0113628	0.0010834
1200.08	0.0114549	0.0011235
1202.01	0.0132213	0.0011225
1203.94	0.0129313	0.0010746
1205.87	0.0132732	0.0010773
1207.8	0.0149776	0.0010471
1209.73	0.0149188	0.0010427
1211.66	0.0164414	0.00105
1213.59	0.0183622	0.0010043
1215.52	0.0165113	0.0009491
1217.45	0.0145787	0.000963
1219.38	0.014859	0.0009008
1221.31	0.0149739	0.0009084
1223.24	0.0156005	0.0008672
1225.16	0.018687	0.0008517
1227.09	0.0166601	0.0007679
1229.02	0.0163449	0.0007466
1230.95	0.0131743	0.0007676
1232.88	0.0175896	0.0007714
1234.81	0.0153068	0.0007562
1236.74	0.0146156	0.0007145
1238.67	0.018711	0.0007919
1240.6	0.0197861	0.0007095
1242.53	0.017319	0.0007678
1244.46	0.0173419	0.0007633
1246.39	0.0164265	0.0007759
1248.32	0.018326	0.0007731
1250.25	0.0198472	0.0007549
1252.17	0.0188159	0.0007924
1254.1	0.0197828	0.0008196
1256.03	0.0208175	0.0008304
1257.96	0.0218235	0.000868
1259.89	0.0214912	0.0008347
1261.82	0.0211728	0.0008551
1263.75	0.0205516	0.0008467
1265.68	0.0206434	0.0008496
1267.61	0.0209475	0.0008813
1269.54	0.0219793	0.0008115

Methanol 7.66 Mole % 15.7 Torr MS07AV2
MS07AD2

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1271.47	0.0217165	0.0008033
1273.4	0.0201919	0.0008064
1275.33	0.019604	0.0007913
1277.26	0.0197491	0.0007901
1279.19	0.020152	0.0007138
1281.11	0.0206602	0.0007191
1283.04	0.0213217	0.00074
1284.97	0.0219779	0.0006766
1286.9	0.0222833	0.0007405
1288.83	0.0239119	0.0006484
1290.76	0.0246303	0.0006684
1292.69	0.0272477	0.0007439
1294.62	0.0297548	0.0007229
1296.55	0.0298299	0.0007004
1298.48	0.030195	0.0008044
1300.41	0.0315962	0.0007759
1302.34	0.0342066	0.0008008
1304.27	0.0345295	0.0007971
1306.2	0.0366349	0.0008417
1308.13	0.0398663	0.0008741
1310.05	0.0396875	0.0008806
1311.98	0.0405121	0.0009662
1313.91	0.0407679	0.000902
1315.84	0.0425674	0.0009805
1317.77	0.0509334	0.0010777
1319.7	0.0534831	0.0010221
1321.63	0.0550125	0.0009916
1323.56	0.0488552	0.0009965
1325.49	0.046157	0.0009648
1327.42	0.0436381	0.000924
1329.35	0.0448478	0.0008932
1331.28	0.0566513	0.0008845
1333.21	0.0484005	0.0006846
1335.14	0.0411357	0.0007762
1337.06	0.0497617	0.0008501
1338.99	0.0644277	0.0010278
1340.92	0.0633878	0.0006038
1342.85	0.0475735	0.0006554
1344.78	0.0625439	0.0008122
1346.71	0.0662534	0.0005588
1348.64	0.0543777	0.0005469
1350.57	0.0469725	0.0005207
1352.5	0.045762	0.0005675
1354.43	0.0517993	0.0005871
1356.36	0.0509812	0.0004488
1358.29	0.0544841	0.0004007
1360.22	0.0586787	0.0008831
1362.15	0.0665663	0.0007703
1364.08	0.0609181	0.0007123
1366	0.0457491	0.0006292
1367.93	0.0482485	0.0008646
1369.86	0.0523168	0.0003951
1371.79	0.0542684	0.0007729
1373.72	0.0653321	0.0010203
1375.65	0.0552805	0.0006866
1377.58	0.044094	0.0008068
1379.51	0.0467007	0.0007023
1381.44	0.0405983	0.0005112
1383.37	0.0388872	0.0004234
1385.3	0.0430928	0.0008393
1387.23	0.0631133	0.0012252
1389.16	0.0473687	0.0008656
1391.09	0.0401214	0.0004314
1393.02	0.0447751	0.0012845
1394.94	0.0734869	0.0003149
1396.87	0.0535249	0.0004712
1398.8	0.063502	0.0012693
1400.73	0.0422613	0.0007664


MS05AV2
Absorbance
0.6
0.5
0.4
0.3
0.2
0.1
0.0
-0.1
700
800
900
1000
1100
1200
1300
1400
1500
Wavenumber (cm-1)
MS05AD2
Absorbance
0.0033
0.0028
0.0023
0.0018
0.0013
0.0008
700
800
900
1000
1100
1200
1300
1400
1500
Wavenumber (cm-1)

Methanol 4.98 Mole % 10.8 Torr MS05AV2 MS05AD2

WN (cm-1)	AVE (A.U.)	AD (A.U.)	WN (cm-1)	AVE (A.U.)	AD (A.U.)
750.547	-0.0026273	0.0010482	837.369	-0.0006188	0.0024914
752.476	-0.0033142	0.0011115	839.298	-0.0002296	0.0023571
754.405	-0.0037106	0.0011722	841.228	-0.0001841	0.002213
756.335	-0.0038549	0.0012006	843.157	-0.0011565	0.0021283
758.264	-0.0026047	0.0012681	845.086	-0.0011047	0.0020798
760.194	-0.0025182	0.0012199	847.016	-0.0009979	0.0020436
762.123	-0.0028949	0.0012092	848.945	-0.000563	0.0019074
764.052	-0.0038526	0.0012497	850.874	-0.0001384	0.0017706
765.982	-0.0038749	0.0013934	852.804	-0.0003707	0.0016819
767.911	-0.003174	0.0014443	854.733	-0.0010635	0.0015516
769.84	-0.0031034	0.0015372	856.663	-0.0016311	0.0015497
771.77	-0.002475	0.0015299	858.592	-0.001268	0.0014105
773.699	-0.0029253	0.0016406	860.521	-0.0005274	0.0014047
775.629	-0.0030994	0.0017395	862.451	-0.0002971	0.0013492
777.558	-0.0015535	0.0017966	864.38	-0.0004512	0.001303
779.487	-0.0009679	0.0019734	866.31	-0.0006103	0.0012345
781.417	-0.0011229	0.002051	868.239	-0.0016225	0.001221
783.346	-0.002109	0.0021964	870.168	-0.0016521	0.0012511
785.275	-0.0020477	0.0022214	872.098	-0.0004755	0.0011748
787.205	-0.0024228	0.0023577	874.027	0.0003104	0.0011821
789.134	-0.002365	0.0024703	875.956	0.0000704	0.0011788
791.064	-0.0017303	0.002563	877.886	-0.0007867	0.0011346
792.993	-0.0016186	0.002619	879.815	-0.0011343	0.0011816
794.922	-0.0005572	0.0027135	881.745	-0.001355	0.0012014
796.852	-0.0009952	0.002791	883.674	-0.00097	0.0012314
798.781	-0.0011737	0.0029096	885.603	-0.0005111	0.0012709
800.711	-0.0010847	0.0029548	887.533	-0.0000419	0.0012644
802.64	-0.0008828	0.0030605	889.462	-0.0006461	0.0012936
804.569	-0.000313	0.003111	891.392	-0.0010683	0.0013046
806.499	0.0006162	0.0031022	893.321	-0.001137	0.0014218
808.428	-0.0001323	0.0031317	895.25	-0.0004559	0.001528
810.357	-0.00112	0.0031302	897.18	0.0005597	0.0015509
812.287	-0.0009603	0.0031381	899.109	0.0012114	0.0016768
814.216	-0.000619	0.0032144	901.038	0.0002995	0.0017634
816.146	0.0000321	0.0031663	902.968	-0.0005743	0.0018593
818.075	0.0002272	0.0031458	904.897	-0.0008141	0.0019269
820.004	0.0005165	0.0030772	906.827	-0.0001407	0.0020278
821.934	-0.0003931	0.0029885	908.756	0.000738	0.0021002
823.863	-0.0010388	0.002971	910.685	0.0009904	0.0022034
825.792	-0.0002532	0.0029077	912.615	0.0008015	0.0023408
827.722	0.0005199	0.0028046	914.544	0.0000263	0.0024094
829.651	0.0000434	0.0027334	916.473	0.0002265	0.002545
831.581	-0.0003319	0.0026748	918.403	0.0006937	0.0026779
833.51	-0.0010781	0.0026275	920.332	0.0014306	0.0027781
835.439	-0.0011983	0.0025858	922.262	0.0013963	0.0028511

Methanol 4.98 Mole % 10.8 Torr MS05AV2 MS05AD2

WN (cm-1)	AVE (A.U.)	AD (A.U.)
924.191	0.0010597	0.0028882
926.12	0.0008356	0.0029666
928.05	0.0002143	0.0030401
929.979	0.0005176	0.0030955
931.909	0.0013766	0.0031568
933.838	0.0018478	0.0031696
935.767	0.0010607	0.0031533
937.697	0.0007229	0.0031833
939.626	0.000677	0.0031865
941.555	0.0006596	0.0032022
943.485	0.0010734	0.0031616
945.414	0.0013012	0.0031446
947.344	0.0015546	0.0031183
949.273	0.0008907	0.0030731
951.202	0.0014029	0.0029833
953.132	0.0015845	0.0029351
955.061	0.0029118	0.0028908
956.991	0.0034223	0.0028322
958.92	0.004746	0.0027447
960.849	0.005917	0.0026822
962.779	0.0068277	0.0026041
964.708	0.0084291	0.0025543
966.637	0.0109956	0.0024739
968.567	0.0152532	0.0023738
970.496	0.017203	0.0022804
972.426	0.0209224	0.0021761
974.355	0.0257155	0.00213
976.284	0.0320571	0.002047
978.214	0.0399914	0.0020149
980.143	0.0490026	0.0019352
982.072	0.0564533	0.0018682
984.002	0.0645254	0.0018493
985.931	0.0727562	0.0018117
987.861	0.0835904	0.0017503
989.79	0.0956297	0.0016452
991.719	0.109436	0.0016333
993.649	0.124123	0.0015465
995.578	0.138695	0.0015138
997.508	0.153635	0.0014923
999.437	0.169808	0.0015025
1001.36	0.186755	0.0014943
1003.29	0.203655	0.001459
1005.22	0.21719	0.0014311
1007.15	0.229054	0.0014488
1009.08	0.237108	0.0013925

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1011.01	0.242659	0.0014109
1012.94	0.246153	0.0014281
1014.87	0.246154	0.0014155
1016.8	0.242801	0.0014305
1018.73	0.229272	0.001453
1020.66	0.208346	0.0015005
1022.59	0.179422	0.0014839
1024.51	0.154509	0.0016113
1026.44	0.13131	0.001862
1028.37	0.12506	0.0017755
1030.3	0.169728	0.0010404
1032.23	0.417793	0.0011139
1034.16	0.525728	0.0027971
1036.09	0.116798	0.0029474
1038.02	0.096602	0.0021532
1039.95	0.110124	0.0020574
1041.88	0.147805	0.0022848
1043.81	0.187312	0.0023734
1045.74	0.229792	0.0024575
1047.67	0.272169	0.0024121
1049.6	0.306389	0.0025921
1051.53	0.334308	0.0026183
1053.45	0.350048	0.0026975
1055.38	0.356139	0.0026783
1057.31	0.351353	0.0027621
1059.24	0.336843	0.0028817
1061.17	0.31467	0.0028335
1063.1	0.284649	0.0027946
1065.03	0.249897	0.0027875
1066.96	0.212693	0.0028017
1068.89	0.178141	0.002796
1070.82	0.143184	0.0027657
1072.75	0.113947	0.0027525
1074.68	0.0871799	0.0027238
1076.61	0.0624111	0.0026844
1078.54	0.0451587	0.0026789
1080.47	0.0332173	0.0026492
1082.39	0.023846	0.0025674
1084.32	0.017339	0.0025241
1086.25	0.0136428	0.0024897
1088.18	0.0113606	0.0024348
1090.11	0.0099998	0.0023548
1092.04	0.009547	0.0022672
1093.97	0.0103253	0.0021788
1095.9	0.0077213	0.0021138

Methanol 4.98 Mole % 10.8 Torr MS05AV2 MS05AD2

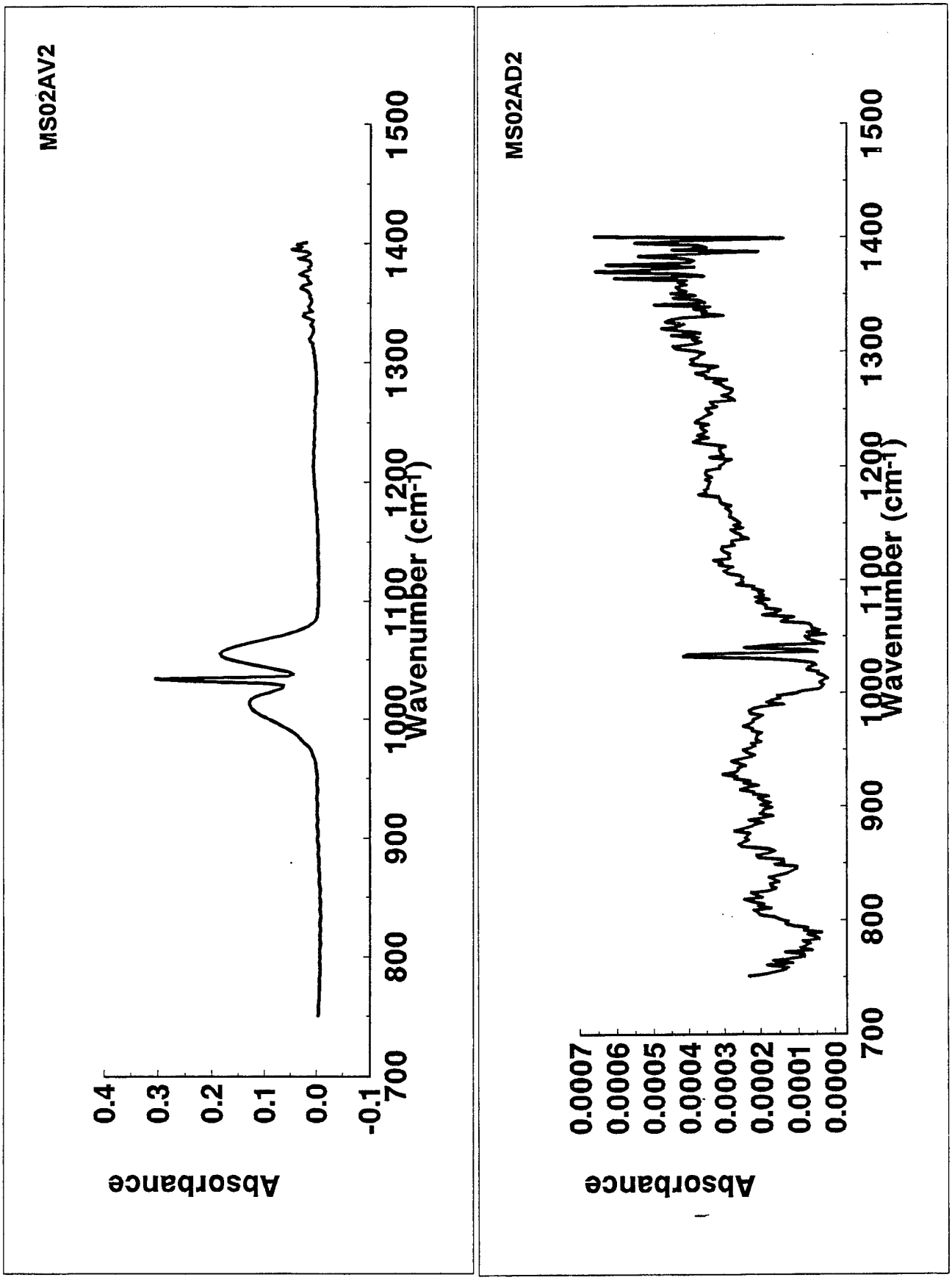
WN (cm-1)	AVE (A.U.)	AD (A.U.)
1097.83	0.0077319	0.0020082
1099.76	0.0066913	0.0018927
1101.69	0.0065235	0.0018342
1103.62	0.0059204	0.0017649
1105.55	0.0058436	0.001702
1107.48	0.0056104	0.0016406
1109.41	0.0049298	0.0015774
1111.33	0.0052127	0.0015436
1113.26	0.0056247	0.0015206
1115.19	0.0062615	0.0014124
1117.12	0.0036599	0.0013925
1119.05	0.0031515	0.0013461
1120.98	0.0034208	0.0013196
1122.91	0.0035552	0.0012782
1124.84	0.003599	0.0012611
1126.77	0.0028155	0.0012648
1128.7	0.0026245	0.0012209
1130.63	0.0023587	0.0012309
1132.56	0.0020738	0.0012602
1134.49	0.0030158	0.0012541
1136.42	0.0041028	0.001246
1138.34	0.0027867	0.0012616
1140.27	0.0025447	0.0012903
1142.2	0.0033716	0.0013303
1144.13	0.0022915	0.0013797
1146.06	0.0018833	0.0014618
1147.99	0.0020378	0.0015068
1149.92	0.0021485	0.0015541
1151.85	0.0017725	0.0016122
1153.78	0.0016073	0.0016925
1155.71	0.0011117	0.0018229
1157.64	0.002014	0.0019321
1159.57	0.0022489	0.0019753
1161.5	0.0022726	0.0021116
1163.43	0.0025779	0.0021945
1165.36	0.0028848	0.0023122
1167.28	0.0017985	0.0024061
1169.21	0.0016726	0.0025036
1171.14	0.0020643	0.002619
1173.07	0.0025319	0.0026998
1175	0.0035005	0.0028
1176.93	0.0033622	0.0028674
1178.86	0.0032141	0.0029821
1180.79	0.0037317	0.0030052
1182.72	0.004549	0.0031122

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1184.65	0.0053921	0.0031815
1186.58	0.0059818	0.0031325
1188.51	0.0062763	0.003179
1190.44	0.0061302	0.0032253
1192.37	0.0067787	0.0032338
1194.3	0.0073815	0.0032166
1196.22	0.0083397	0.0032212
1198.15	0.0092486	0.0031709
1200.08	0.0091646	0.0031325
1202.01	0.0101429	0.0031049
1203.94	0.0099585	0.0030168
1205.87	0.0100953	0.0030018
1207.8	0.0112901	0.0029367
1209.73	0.0113707	0.00277
1211.66	0.0123964	0.0027538
1213.59	0.013596	0.002645
1215.52	0.0122694	0.0025197
1217.45	0.0109126	0.0024765
1219.38	0.0109862	0.0023086
1221.31	0.0110174	0.0021935
1223.24	0.0113383	0.0021164
1225.16	0.0134386	0.0020191
1227.09	0.0116955	0.0019455
1229.02	0.0113835	0.0018506
1230.95	0.0092203	0.0017597
1232.88	0.0120306	0.0017033
1234.81	0.0104789	0.0016157
1236.74	0.0097321	0.0015275
1238.67	0.0123666	0.0015097
1240.6	0.0130492	0.0014248
1242.53	0.0113484	0.001401
1244.46	0.0113951	0.0013854
1246.39	0.0106147	0.0013238
1248.32	0.0116956	0.0012885
1250.25	0.012551	0.001335
1252.17	0.0116651	0.0012949
1254.1	0.0122429	0.0013508
1256.03	0.0129981	0.0013206
1257.96	0.0138142	0.0013656
1259.89	0.0139694	0.0013152
1261.82	0.0134393	0.0013517
1263.75	0.0130541	0.001333
1265.68	0.013349	0.0013928
1267.61	0.0134406	0.0014432
1269.54	0.0144616	0.0014808

Methanol 4.98 Mole % 10.8 Torr MS05AV2
MS05AD2

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1271.47	0.0146128	0.001513
1273.4	0.0131167	0.0015353
1275.33	0.0123681	0.0016039
1277.26	0.0126111	0.0016741
1279.19	0.012821	0.0017962
1281.11	0.0132703	0.0018396
1283.04	0.013737	0.0019178
1284.97	0.0141421	0.0019843
1286.9	0.0146284	0.0020984
1288.83	0.0161166	0.0021745
1290.76	0.0161626	0.0023056
1292.69	0.0178054	0.0023642
1294.62	0.019697	0.0024257
1296.55	0.0200371	0.0025429
1298.48	0.02009	0.0026519
1300.41	0.0211142	0.0027011
1302.34	0.0227497	0.0028702
1304.27	0.0230837	0.0029493
1306.2	0.0245856	0.0029933
1308.13	0.0271633	0.003104
1310.05	0.0267291	0.0031712
1311.98	0.0279221	0.0031906
1313.91	0.0286933	0.0032063
1315.84	0.0294349	0.0032574
1317.77	0.0360822	0.0032618
1319.7	0.0386268	0.0032201
1321.63	0.0376539	0.0032505
1323.56	0.0331702	0.0032677
1325.49	0.031147	0.0032419
1327.42	0.0292411	0.0032281
1329.35	0.030089	0.0031683
1331.28	0.037912	0.0032429
1333.21	0.0324419	0.0031082
1335.14	0.0277754	0.0032063
1337.06	0.0364112	0.0028964
1338.99	0.0487594	0.0029568
1340.92	0.0472584	0.0025524
1342.85	0.0314104	0.0026256
1344.78	0.0418004	0.0025241
1346.71	0.0446374	0.0023519
1348.64	0.036782	0.0023693
1350.57	0.0317351	0.0021563
1352.5	0.0302668	0.0021133
1354.43	0.0351235	0.0020064
1356.36	0.0339332	0.0020201

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1358.29	0.0364662	0.001901
1360.22	0.0408839	0.0018222
1362.15	0.0506962	0.0017133
1364.08	0.0464766	0.0012497
1366	0.0302989	0.0014851
1367.93	0.033575	0.001387
1369.86	0.0367255	0.001224
1371.79	0.0376385	0.0011266
1373.72	0.0513761	0.0012427
1375.65	0.0426329	0.0009804
1377.58	0.0307821	0.0010306
1379.51	0.032605	0.0009679
1381.44	0.0271088	0.0010939
1383.37	0.0258081	0.0010949
1385.3	0.0299226	0.0010547
1387.23	0.0501224	0.0011645
1389.16	0.033573	0.0014266
1391.09	0.0268855	0.0013567
1393.02	0.0316797	0.0012729
1394.94	0.0617601	0.0011076
1396.87	0.0417231	0.0014053
1398.8	0.0522474	0.0014993
1400.73	0.0321029	0.0016105


MS02AV2
Absorbance
0.4
0.3
0.2
0.1
0.0
-0.1
700
800
900
1000
1100
1200
1300
1400
1500
Wavenumber (cm-1)
MS02AD2
Absorbance
0.0007
0.0006
0.0005
0.0004
0.0003
0.0002
0.0001
0.0000
700
800
900
1000
1100
1200
1300
1400
1500
Wavenumber (cm-1)

Methanol 2.52 Mole % 5.8 Torr MS02AV2
MS02AD2

WN (cm-1)	AVE (A.U.)	AD (A.U.)
750.547	-0.0034712	0.0002326
752.476	-0.0045554	0.0001869
754.405	-0.0047066	0.0001594
756.335	-0.0046866	0.0001356
758.264	-0.0041055	0.0001292
760.194	-0.0043849	0.0001818
762.123	-0.0047311	0.0001172
764.052	-0.0057643	0.0001663
765.982	-0.0059526	0.0001224
767.911	-0.0057513	0.0000849
769.84	-0.0060264	0.0000859
771.77	-0.0055682	0.0001333
773.699	-0.0062293	0.0000645
775.629	-0.0065158	0.0000943
777.558	-0.0061982	0.0000798
779.487	-0.0061832	0.0000703
781.417	-0.0060145	0.0000877
783.346	-0.0069156	0.0000445
785.275	-0.0071943	0.0000502
787.205	-0.0074951	0.0000748
789.134	-0.007702	0.0000388
791.064	-0.0073366	0.0000849
792.993	-0.0073252	0.0000758
794.922	-0.0065536	0.0001163
796.852	-0.007084	0.0001329
798.781	-0.0074032	0.0001296
800.711	-0.0073157	0.0001508
802.64	-0.0071584	0.0001656
804.569	-0.0069449	0.0002025
806.499	-0.0066142	0.0002076
808.428	-0.0073215	0.000219
810.357	-0.0082693	0.0001752
812.287	-0.0079762	0.0002071
814.216	-0.0076538	0.0001937
816.146	-0.0072279	0.0002236
818.075	-0.007263	0.0002434
820.004	-0.007465	0.0001989
821.934	-0.0082448	0.0002119
823.863	-0.0084836	0.0002248
825.792	-0.0075211	0.0001778
827.722	-0.0071909	0.0001617
829.651	-0.0076766	0.0001735
831.581	-0.0083192	0.000175
833.51	-0.0089089	0.0001528
835.439	-0.0087288	0.0001652

WN (cm-1)	AVE (A.U.)	AD (A.U.)
837.369	-0.0080284	0.0001772
839.298	-0.0074754	0.000152
841.228	-0.0074398	0.00013
843.157	-0.0083695	0.0001176
845.086	-0.0083299	0.000106
847.016	-0.0081283	0.0001061
848.945	-0.0073598	0.0001623
850.874	-0.0066328	0.0001395
852.804	-0.0069604	0.0001424
854.733	-0.007493	0.0002056
856.663	-0.0079072	0.000211
858.592	-0.0074686	0.0001798
860.521	-0.0063849	0.0001647
862.451	-0.0057968	0.0001823
864.38	-0.0059188	0.0002492
866.31	-0.0061372	0.0002594
868.239	-0.0068104	0.0002481
870.168	-0.0065539	0.0002352
872.098	-0.0054796	0.0002413
874.027	-0.0044183	0.0002377
875.956	-0.00451	0.0002309
877.886	-0.0053055	0.0002701
879.815	-0.0055093	0.0002492
881.745	-0.0055137	0.0002277
883.674	-0.0047777	0.0002176
885.603	-0.0040899	0.0001964
887.533	-0.0037175	0.0002308
889.462	-0.0043683	0.0002007
891.392	-0.0046214	0.0001702
893.321	-0.0046117	0.0002024
895.25	-0.0038834	0.0001947
897.18	-0.0029656	0.0001921
899.109	-0.0024648	0.0001728
901.038	-0.0031211	0.0001993
902.968	-0.0038022	0.0001771
904.897	-0.0039212	0.0001959
906.827	-0.0032271	0.000206
908.756	-0.0024259	0.0001817
910.685	-0.0022858	0.0002188
912.615	-0.0023843	0.0002189
914.544	-0.0032046	0.0002546
916.473	-0.0030629	0.0002374
918.403	-0.0025758	0.000208
920.332	-0.0016645	0.0002446
922.262	-0.0014903	0.0002301

Methanol 2.52 Mole % 5.8 Torr MS02AV2
MS02AD2

WN (cm-1)	AVE (A.U.)	AD (A.U.)
924.191	-0.0020504	0.000271
926.12	-0.0025082	0.0002652
928.05	-0.0028444	0.0003041
929.979	-0.0025502	0.0002688
931.909	-0.0016612	0.0002613
933.838	-0.0013287	0.0002619
935.767	-0.0019416	0.0002429
937.697	-0.0025409	0.0002602
939.626	-0.0026818	0.0002797
941.555	-0.002594	0.000257
943.485	-0.0019633	0.0002281
945.414	-0.0016633	0.0002176
947.344	-0.0014223	0.0002369
949.273	-0.0021059	0.0002462
951.202	-0.0020586	0.0002277
953.132	-0.0019249	0.0002162
955.061	-0.0008923	0.0002245
956.991	-0.0006892	0.0002008
958.92	0.0000998	0.000213
960.849	0.0002966	0.0002118
962.779	0.000742	0.0002092
964.708	0.0017161	0.0001996
966.637	0.0032403	0.0002229
968.567	0.0057439	0.0002232
970.496	0.0067078	0.0002469
972.426	0.0083471	0.0002318
974.355	0.0106298	0.0002215
976.284	0.014065	0.0002203
978.214	0.0184337	0.0002049
980.143	0.0234342	0.0001969
982.072	0.0274239	0.000229
984.002	0.0314521	0.0002306
985.931	0.0353664	0.0002219
987.861	0.0412022	0.000199
989.79	0.0477618	0.0001402
991.719	0.0555614	0.0001833
993.649	0.0634969	0.0001695
995.578	0.0711222	0.0001493
997.508	0.0788598	0.0001559
999.437	0.0876829	0.0001053
1001.36	0.0968089	0.0000902
1003.29	0.106105	0.000042
1005.22	0.113544	0.0000375
1007.15	0.119749	0.0000331
1009.08	0.123647	0.0000411

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1011.01	0.126049	0.0000341
1012.94	0.127563	0.0000211
1014.87	0.127104	0.0000301
1016.8	0.124689	0.000046
1018.73	0.116925	0.0000469
1020.66	0.105009	0.0000759
1022.59	0.0889902	0.000072
1024.51	0.0758462	0.0000535
1026.44	0.0647541	0.000062
1028.37	0.0630724	0.000117
1030.3	0.0884627	0.0001973
1032.23	0.227012	0.0004141
1034.16	0.303684	0.0004028
1036.09	0.0547091	0.0000493
1038.02	0.0443672	0.0000722
1039.95	0.0527038	0.0002422
1041.88	0.0737969	0.0001814
1043.81	0.0951846	0.0000311
1045.74	0.11788	0.0000583
1047.67	0.140378	0.0000757
1049.6	0.158217	0.0000805
1051.53	0.172616	0.0000258
1053.45	0.180309	0.0000757
1055.38	0.18269	0.0000442
1057.31	0.178898	0.0000628
1059.24	0.170024	0.0000652
1061.17	0.15728	0.0000736
1063.1	0.140836	0.0001449
1065.03	0.122342	0.0001371
1066.96	0.10243	0.0001136
1068.89	0.0839448	0.0001934
1070.82	0.0654205	0.0001597
1072.75	0.0501909	0.0001485
1074.68	0.0367011	0.0001856
1076.61	0.0239017	0.0001852
1078.54	0.0148756	0.0001907
1080.47	0.0087024	0.0002112
1082.39	0.0036124	0.0001795
1084.32	0.0002956	0.0002133
1086.25	-0.0014898	0.0001927
1088.18	-0.0022535	0.0002043
1090.11	-0.003014	0.0001943
1092.04	-0.0035016	0.0002217
1093.97	-0.0029365	0.000219
1095.9	-0.0044705	0.0002642

Methanol 2.52 Mole % 5.8 Torr MS02AV2 MS02AD2

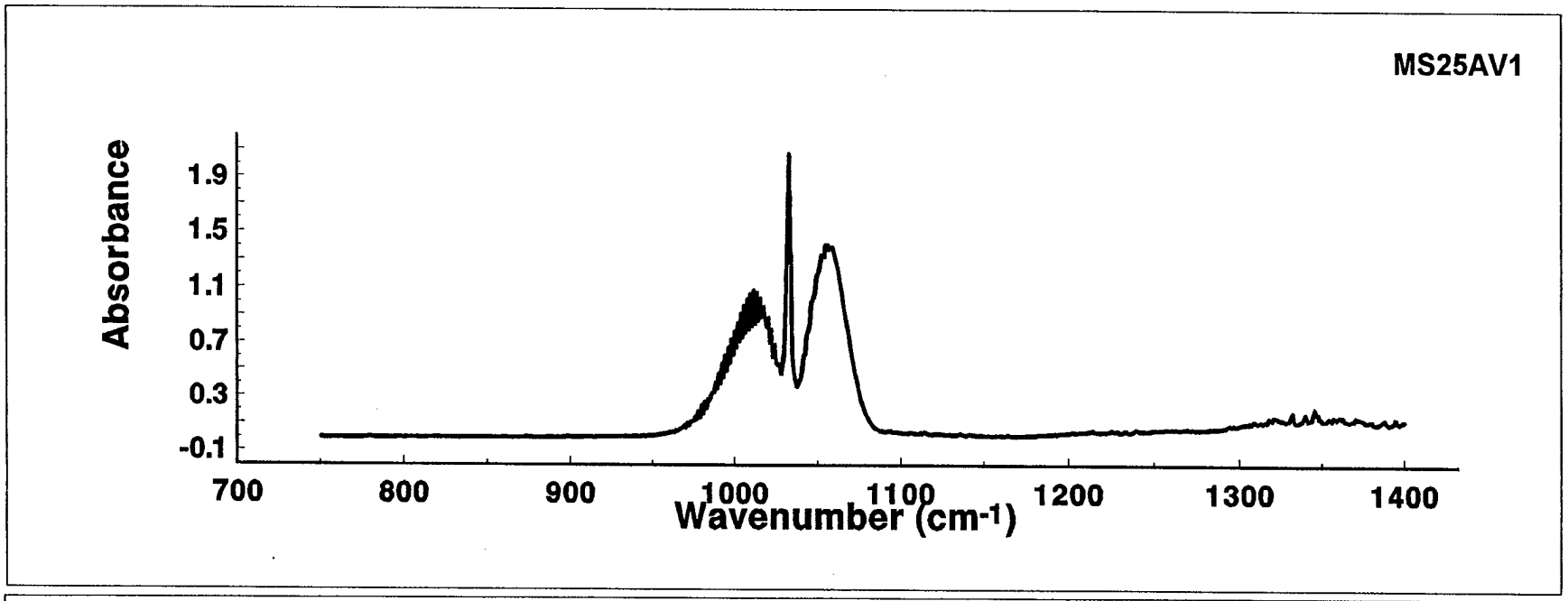
WN (cm-1)	AVE (A.U.)	AD (A.U.)
1097.83	-0.0043281	0.0002495
1099.76	-0.0045145	0.0002515
1101.69	-0.0043913	0.0002491
1103.62	-0.0046592	0.000257
1105.55	-0.0049618	0.0002901
1107.48	-0.0047805	0.0003009
1109.41	-0.0049061	0.0002896
1111.33	-0.0045712	0.0002771
1113.26	-0.0041586	0.0003143
1115.19	-0.0038032	0.0003051
1117.12	-0.0051906	0.0003293
1119.05	-0.0053108	0.0002847
1120.98	-0.0048147	0.0002866
1122.91	-0.0045878	0.0002857
1124.84	-0.0044083	0.0003008
1126.77	-0.0047227	0.0003069
1128.7	-0.0047227	0.0003052
1130.63	-0.0046718	0.000272
1132.56	-0.0047323	0.0002795
1134.49	-0.0039899	0.0002789
1136.42	-0.0030332	0.0002348
1138.34	-0.0036112	0.000253
1140.27	-0.0037881	0.0002551
1142.2	-0.0033621	0.0002699
1144.13	-0.0036693	0.0002802
1146.06	-0.0036834	0.0002498
1147.99	-0.0036107	0.0002719
1149.92	-0.0030158	0.0002555
1151.85	-0.0030772	0.0002646
1153.78	-0.003273	0.0002724
1155.71	-0.0034328	0.0002839
1157.64	-0.0027857	0.0002832
1159.57	-0.0024184	0.0002819
1161.5	-0.0022058	0.0002859
1163.43	-0.0018112	0.0002956
1165.36	-0.0017095	0.000282
1167.28	-0.0023434	0.0003062
1169.21	-0.0021754	0.0003126
1171.14	-0.0017953	0.0003119
1173.07	-0.0011272	0.0003162
1175	-0.0002142	0.0003708
1176.93	-0.0005231	0.0003505
1178.86	-0.0006591	0.0003546
1180.79	-0.0002151	0.0003456
1182.72	0.0004162	0.0003459

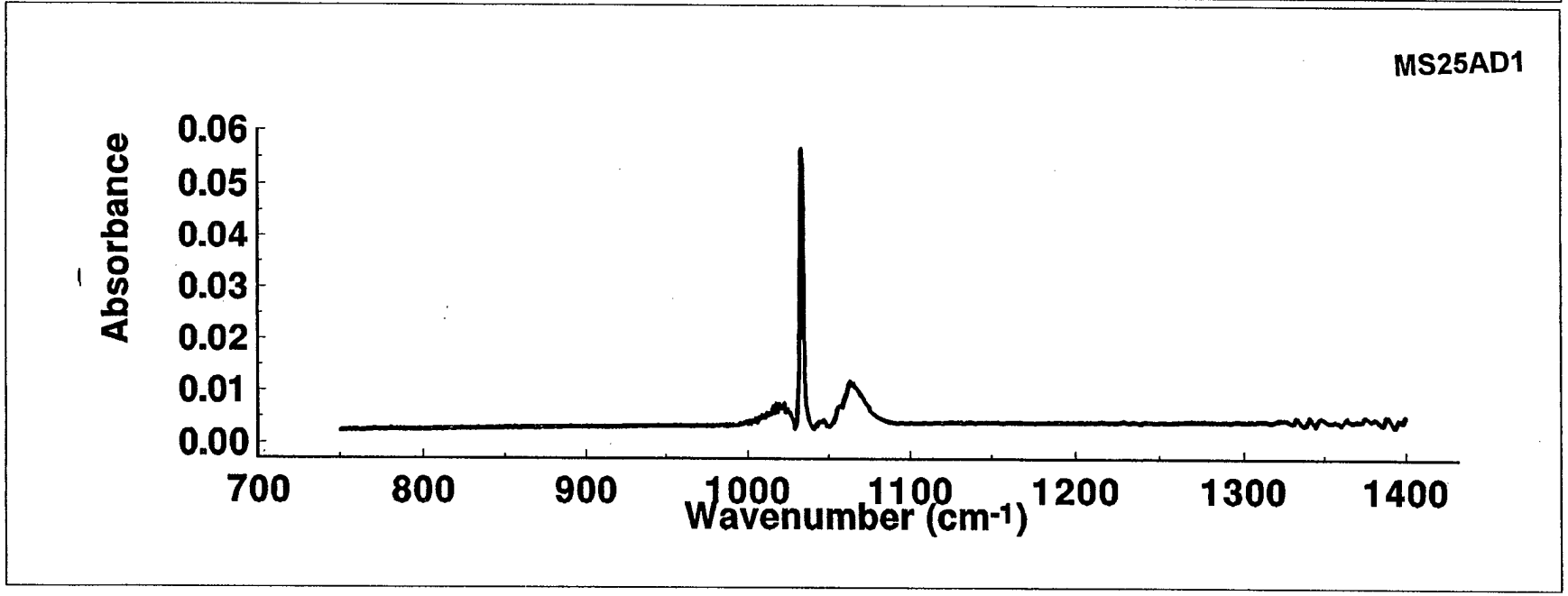
WN (cm-1)	AVE (A.U.)	AD (A.U.)
1184.65	0.0011853	0.0003421
1186.58	0.0016785	0.0003399
1188.51	0.0018265	0.0003521
1190.44	0.0018727	0.0003365
1192.37	0.0023529	0.0003501
1194.3	0.0029614	0.0003526
1196.22	0.003486	0.0003493
1198.15	0.0040166	0.000312
1200.08	0.0040897	0.0003129
1202.01	0.0045623	0.0003028
1203.94	0.0045875	0.0002975
1205.87	0.004688	0.0002805
1207.8	0.0053986	0.0003401
1209.73	0.0053415	0.0003023
1211.66	0.0060362	0.0003091
1213.59	0.0066168	0.0003121
1215.52	0.0060169	0.0003136
1217.45	0.0054428	0.0002971
1219.38	0.005194	0.0003361
1221.31	0.0048342	0.0003861
1223.24	0.0050156	0.0003773
1225.16	0.0063707	0.0003452
1227.09	0.0052651	0.0003746
1229.02	0.0048849	0.0003578
1230.95	0.0038313	0.0003508
1232.88	0.0049162	0.0003609
1234.81	0.0040024	0.0003666
1236.74	0.0034932	0.0003453
1238.67	0.0045717	0.0003805
1240.6	0.0047415	0.0003745
1242.53	0.0035369	0.0003621
1244.46	0.0036158	0.0003528
1246.39	0.0026463	0.000337
1248.32	0.0029759	0.0003462
1250.25	0.0031573	0.0003512
1252.17	0.0026101	0.0003214
1254.1	0.0027958	0.0003335
1256.03	0.0028882	0.0003376
1257.96	0.0029499	0.0002721
1259.89	0.0032902	0.0002808
1261.82	0.0026014	0.0003052
1263.75	0.001796	0.0002854
1265.68	0.0018927	0.0002785
1267.61	0.001483	0.0002783
1269.54	0.0020856	0.0003006

Methanol 2.52 Mole % 5.8 Torr MS02AV2 MS02AD2

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1271.47	0.002282	0.0003072
1273.4	0.0005997	0.0003278
1275.33	-0.000306	0.0002936
1277.26	-0.0002329	0.0003515
1279.19	-0.0002221	0.0003516
1281.11	-0.0001754	0.0003799
1283.04	-0.0003954	0.0003441
1284.97	-0.0001725	0.0003449
1286.9	0.0002241	0.00032
1288.83	0.0013471	0.0003948
1290.76	0.0007776	0.0003869
1292.69	0.001	0.0003928
1294.62	0.001865	0.0003751
1296.55	0.0021475	0.0003699
1298.48	0.0021467	0.0003571
1300.41	0.0023719	0.0003839
1302.34	0.003361	0.0004368
1304.27	0.0032952	0.0004434
1306.2	0.0040782	0.0003851
1308.13	0.0056729	0.0003649
1310.05	0.0051715	0.0003896
1311.98	0.0067374	0.0003726
1313.91	0.0079314	0.0004477
1315.84	0.0075769	0.0003674
1317.77	0.011802	0.0004172
1319.7	0.0140173	0.0004742
1321.63	0.0109525	0.0004261
1323.56	0.008335	0.0004141
1325.49	0.0070952	0.0004644
1327.42	0.0062151	0.0004533
1329.35	0.0068519	0.0004161
1331.28	0.0108279	0.0003046
1333.21	0.0086565	0.0003629
1335.14	0.0070004	0.0003498
1337.06	0.0153335	0.0003851
1338.99	0.0252944	0.0003418
1340.92	0.0238636	0.000495
1342.85	0.0088425	0.0003551
1344.78	0.0139248	0.0003736
1346.71	0.0157356	0.0004438
1348.64	0.0128398	0.0003819
1350.57	0.0105528	0.0004491
1352.5	0.0095751	0.0004075
1354.43	0.0133775	0.0004289
1356.36	0.0128631	0.0004346

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1358.29	0.0147207	0.0004069
1360.22	0.0186822	0.0004297
1362.15	0.0300277	0.0004057
1364.08	0.0275658	0.0006051
1366	0.011349	0.0003583
1367.93	0.0150299	0.0004303
1369.86	0.0179977	0.0006559
1371.79	0.0176829	0.0004888
1373.72	0.0322027	0.0003864
1375.65	0.0254406	0.0006256
1377.58	0.0137186	0.0003945
1379.51	0.0152417	0.0003862
1381.44	0.0116202	0.0004168
1383.37	0.0113774	0.0005392
1385.3	0.0144428	0.0003917
1387.23	0.033823	0.0002089
1389.16	0.0188528	0.0004479
1391.09	0.0133555	0.0003507
1393.02	0.0179077	0.0003742
1394.94	0.0471064	0.0005495
1396.87	0.0285804	0.0004124
1398.8	0.0373524	0.0001421
1400.73	0.0194316	0.0006587


MS25AV1
Absorbance
1.9
1.5
1.1
0.7
0.3
-0.1
700
800
900
1000
1100
1200
1300
1400
Wavenumber (cm-1)


MS25AD1
Absorbance
0.06
0.05
0.04
0.03
0.02
0.01
0.00
700
800
900
1000
1100
1200
1300
1400
Wavenumber (cm-1)

Methanol 24.97 Mole % 38.6 Torr MS25AV1 MS25AD1

WN (cm-1)	AVE (A.U.)	AD (A.U.)
750.455	-0.0083798	0.0023204
751.42	-0.0099167	0.002437
752.384	-0.0095026	0.0024419
753.349	-0.0093934	0.0024283
754.313	-0.0100902	0.0023685
755.278	-0.0103962	0.0024571
756.242	-0.0098855	0.0023966
757.207	-0.0102022	0.0024128
758.171	-0.008595	0.0024546
759.136	-0.0089555	0.0024361
760.1	-0.0093982	0.0024961
761.065	-0.0095371	0.0024368
762.029	-0.0092898	0.0023709
762.994	-0.0106688	0.0024212
763.959	-0.0102341	0.0024464
764.923	-0.0098718	0.0024187
765.888	-0.0106435	0.0023999
766.852	-0.0098124	0.002494
767.817	-0.0102019	0.0024538
768.781	-0.0106863	0.0025207
769.746	-0.0101383	0.0025599
770.71	-0.0101197	0.002601
771.675	-0.0103185	0.0025478
772.639	-0.0098018	0.0025305
773.604	-0.0106822	0.0024647
774.568	-0.0109371	0.0025276
775.533	-0.0113729	0.0025296
776.498	-0.0095849	0.0025011
777.462	-0.0051963	0.0024835
778.427	-0.0048505	0.0025537
779.391	-0.0013303	0.0025821
780.356	-0.0021553	0.0026836
781.32	-0.0072964	0.0026312
782.285	-0.0102873	0.002575
783.249	-0.010896	0.0025447
784.214	-0.0110098	0.0025971
785.178	-0.0110312	0.0025805
786.143	-0.0107777	0.0026439
787.107	-0.0111786	0.0025491
788.072	-0.0109065	0.0026336
789.037	-0.0106494	0.00251
790.001	-0.010237	0.0025306
790.966	-0.0099552	0.0025572
791.93	-0.0097452	0.0025704
792.895	-0.009737	0.0025936

WN (cm-1)	AVE (A.U.)	AD (A.U.)
793.859	-0.0088682	0.0026041
794.824	-0.0095206	0.0025686
795.788	-0.008565	0.0025283
796.753	-0.0089546	0.0025194
797.717	-0.0091007	0.0025957
798.682	-0.0089052	0.0025835
799.646	-0.0090681	0.0025793
800.611	-0.0093593	0.0025849
801.576	-0.0090713	0.0025853
802.54	-0.0090549	0.0026051
803.505	-0.0086699	0.0025801
804.469	-0.008399	0.0026125
805.434	-0.0077029	0.0025916
806.398	-0.007195	0.0027051
807.363	-0.0085223	0.0027232
808.327	-0.0088394	0.0026542
809.292	-0.0095188	0.0027139
810.256	-0.0101513	0.0026619
811.221	-0.0101776	0.0026451
812.185	-0.0097201	0.0026167
813.15	-0.0099418	0.0026256
814.115	-0.0087761	0.002693
815.079	-0.0087738	0.0026861
816.044	-0.0079031	0.0027199
817.008	-0.0071924	0.0026859
817.973	-0.0073406	0.0026433
818.937	-0.0060857	0.0026542
819.902	-0.0044384	0.0026832
820.866	-0.00445	0.0027622
821.831	-0.0075794	0.0027606
822.795	-0.0088998	0.0027197
823.76	-0.0085175	0.0028381
824.724	-0.0075354	0.0028068
825.689	-0.0087058	0.002709
826.654	-0.0081322	0.002678
827.618	-0.0068127	0.0027494
828.583	-0.0067518	0.0027362
829.547	-0.0078283	0.0027905
830.512	-0.0081835	0.0027884
831.476	-0.0082371	0.0027659
832.441	-0.0091386	0.0027054
833.405	-0.0095003	0.0028247
834.37	-0.0091898	0.0027889
835.334	-0.0090967	0.0028004
836.299	-0.0087558	0.0027617

Methanol 24.97 Mole % 38.6 Torr MS25AV1
MS25AD1

WN (cm-1)	AVE (A.U.)	AD (A.U.)
837.263	-0.0078037	0.0027398
838.228	-0.0078248	0.0027752
839.193	-0.0074592	0.0028129
840.157	-0.0074051	0.0028618
841.122	-0.0074358	0.0028122
842.086	-0.007737	0.0028096
843.051	-0.0080766	0.0028529
844.015	-0.0085411	0.0028027
844.98	-0.0076712	0.0028393
845.944	-0.0077082	0.0028264
846.909	-0.008063	0.0028338
847.873	-0.0080699	0.0028171
848.838	-0.0072544	0.0028744
849.802	-0.0075222	0.0028095
850.767	-0.0074237	0.0028871
851.732	-0.0072888	0.002869
852.696	-0.0072143	0.0028908
853.661	-0.0076058	0.0028941
854.625	-0.0083597	0.0028701
855.59	-0.0084056	0.0029466
856.554	-0.0086399	0.0028896
857.519	-0.0082787	0.0029093
858.483	-0.0072879	0.0028732
859.448	-0.004837	0.0028542
860.412	-0.0050441	0.0028952
861.377	-0.007376	0.0029218
862.341	-0.0071499	0.0028903
863.306	-0.0074275	0.0029289
864.271	-0.0073341	0.0028829
865.235	-0.00757	0.0028824
866.2	-0.0074008	0.0029469
867.164	-0.0075158	0.0029461
868.129	-0.0078877	0.0029279
869.093	-0.007689	0.002847
870.058	-0.0076621	0.0028858
871.022	-0.0071939	0.0028727
871.987	-0.0053707	0.00292
872.951	-0.0038635	0.0029768
873.916	-0.0052393	0.0029457
874.88	-0.0057366	0.0029318
875.845	-0.0060419	0.002906
876.809	-0.0063126	0.0029527
877.774	-0.0070035	0.0029055
878.739	-0.006806	0.002906
879.703	-0.0073997	0.0029447

WN (cm-1)	AVE (A.U.)	AD (A.U.)
880.668	-0.0076612	0.0029768
881.632	-0.0075974	0.0029756
882.597	-0.007658	0.002935
883.561	-0.006907	0.0029453
884.526	-0.0066303	0.0030041
885.49	-0.0056239	0.0029939
886.455	-0.0059116	0.0029646
887.419	-0.00583	0.0029795
888.384	-0.0059484	0.0029656
889.349	-0.0064157	0.0029712
890.313	-0.0069269	0.0030376
891.278	-0.0070748	0.0030395
892.242	-0.0064536	0.0029717
893.207	-0.0069849	0.0030068
894.171	-0.0062501	0.0029904
895.136	-0.005726	0.0029875
896.1	-0.0052628	0.0029836
897.065	-0.0037382	0.0029704
898.029	-0.0036381	0.0029698
898.994	-0.0015295	0.003018
899.958	-0.0015037	0.0030548
900.923	-0.0052172	0.0030299
901.887	-0.005659	0.0030363
902.852	-0.006151	0.002964
903.817	-0.0061405	0.0030324
904.781	-0.0061287	0.0030013
905.746	-0.0053648	0.0030501
906.71	-0.0043028	0.0030315
907.675	-0.0037044	0.0030134
908.639	-0.0028901	0.0030259
909.604	-0.003239	0.0030037
910.568	-0.0032725	0.0030547
911.533	-0.0035215	0.0030088
912.497	-0.0030623	0.0030474
913.462	-0.0035186	0.003014
914.427	-0.003919	0.0030673
915.391	-0.0033954	0.0029754
916.356	-0.002846	0.0030686
917.32	-0.0036346	0.0030946
918.285	-0.0026564	0.0030569
919.249	-0.0024521	0.0030466
920.214	-0.0014809	0.0030426
921.178	-0.0015771	0.0030676
922.143	-0.001458	0.0030423
923.107	-0.0016226	0.0030702

Methanol 24.97 Mole % 38.6 Torr MS25AV1
MS25AD1

WN (cm-1)	AVE (A.U.)	AD (A.U.)
924.072	-0.000839	0.0031208
925.037	-0.0004234	0.0030703
926.001	-0.0008794	0.0031204
926.965	-0.0012437	0.0031231
927.93	-0.0007146	0.0031363
928.895	-0.0006424	0.003107
929.859	-0.0003416	0.0031012
930.824	0.0005933	0.003115
931.788	0.0015512	0.0031123
932.753	0.003286	0.0031565
933.717	0.0022983	0.0031866
934.682	0.0018721	0.0031732
935.646	0.0011134	0.0031467
936.611	0.0009987	0.0031446
937.575	0.0021827	0.0031516
938.54	0.0024912	0.003131
939.505	0.0041144	0.0031865
940.469	0.0040187	0.0031749
941.434	0.0042158	0.0032129
942.398	0.0030093	0.0032406
943.363	0.0039808	0.0032292
944.327	0.0058622	0.0031988
945.292	0.0038203	0.0032487
946.256	0.0056899	0.0032032
947.221	0.006254	0.0031855
948.185	0.0056181	0.0032003
949.15	0.0057351	0.0031972
950.115	0.0062956	0.0031754
951.079	0.011638	0.003216
952.044	0.0084442	0.0031773
953.008	0.0126042	0.0032198
953.973	0.0143623	0.0031975
954.937	0.0147619	0.0032429
955.902	0.019739	0.0032541
956.866	0.0154032	0.0032444
957.831	0.0234599	0.0032135
958.795	0.0227643	0.0032454
959.76	0.0277231	0.003235
960.724	0.0324638	0.0032369
961.689	0.0289918	0.0032769
962.653	0.039662	0.0032611
963.618	0.0335019	0.0032207
964.583	0.0458163	0.0032081
965.547	0.0442267	0.0031478
966.512	0.0509879	0.0031663

WN (cm-1)	AVE (A.U.)	AD (A.U.)
967.476	0.0641286	0.0032486
968.441	0.0647648	0.0032145
969.405	0.0830332	0.0033413
970.37	0.0672578	0.0032863
971.334	0.0969703	0.0032435
972.299	0.0845463	0.0032191
973.263	0.108416	0.0031869
974.228	0.111994	0.0032591
975.192	0.117156	0.0031664
976.157	0.147745	0.0033424
977.122	0.128057	0.0031147
978.086	0.188717	0.0032794
979.051	0.144776	0.0031652
980.015	0.23078	0.0032821
980.98	0.171094	0.0033435
981.944	0.255916	0.00327
982.909	0.210962	0.0033433
983.873	0.279324	0.0033225
984.838	0.263538	0.0034782
985.802	0.300382	0.0032446
986.767	0.329515	0.0035223
987.731	0.327882	0.003148
988.696	0.399307	0.0035046
989.661	0.35947	0.0032504
990.625	0.469787	0.0034829
991.59	0.396256	0.0033685
992.554	0.538945	0.0033589
993.519	0.441028	0.0033764
994.483	0.605477	0.0033849
995.448	0.491395	0.003695
996.412	0.661889	0.0035329
997.377	0.549079	0.0036933
998.341	0.719483	0.0036758
999.306	0.608252	0.0040679
1000.27	0.779433	0.0036526
1001.23	0.662178	0.0041604
1002.2	0.840249	0.0037223
1003.16	0.708999	0.0042266
1004.12	0.910757	0.0040442
1005.09	0.738777	0.0046613
1006.05	0.967948	0.0039081
1007.02	0.772723	0.0047544
1007.98	1.01642	0.0046666
1008.95	0.795325	0.0052233
1009.91	1.05329	0.0047165

Methanol 24.97 Mole % 38.6 Torr MS25AV1 MS25AD1

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1010.88	0.819356	0.0048866
1011.84	1.07919	0.0055594
1012.8	0.839233	0.0052454
1013.77	1.06325	0.0056445
1014.73	0.860673	0.0055181
1015.7	1.02128	0.00679
1016.66	0.886024	0.0056604
1017.63	0.958671	0.0074043
1018.59	0.897063	0.005944
1019.56	0.816483	0.0073382
1020.52	0.879441	0.0065276
1021.49	0.704318	0.0065841
1022.45	0.795092	0.0073826
1023.41	0.590916	0.0058416
1024.38	0.682543	0.0064089
1025.34	0.546545	0.0057657
1026.31	0.529352	0.0057783
1027.27	0.539609	0.0049085
1028.24	0.470616	0.0042177
1029.2	0.543568	0.0028357
1030.17	0.636732	0.0038497
1031.13	0.968048	0.008847
1032.1	1.48805	0.0147412
1033.06	2.07086	0.0564043
1034.02	1.49467	0.0528598
1034.99	0.605726	0.0128183
1035.95	0.456652	0.0074121
1036.92	0.409079	0.0055497
1037.88	0.374637	0.0042372
1038.85	0.415394	0.0036039
1039.81	0.420757	0.0029413
1040.78	0.497333	0.0028059
1041.74	0.602735	0.0033996
1042.7	0.612612	0.0032526
1043.67	0.745703	0.0039321
1044.63	0.790998	0.0040499
1045.6	0.843629	0.0039082
1046.56	0.99455	0.0042803
1047.53	1.01459	0.0041222
1048.49	1.05862	0.0032548
1049.46	1.18602	0.0032683
1050.42	1.19758	0.0031017
1051.39	1.23382	0.0035641
1052.35	1.33333	0.0038725
1053.31	1.32483	0.0045103

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1054.28	1.32363	0.0052561
1055.24	1.40063	0.0065593
1056.21	1.40192	0.0067814
1057.17	1.37105	0.0070589
1058.14	1.38413	0.006745
1059.1	1.3861	0.0080322
1060.07	1.35608	0.0089126
1061.03	1.29839	0.0097143
1061.99	1.25588	0.0107542
1062.96	1.20135	0.0116023
1063.92	1.13305	0.0110133
1064.89	1.05983	0.0112528
1065.85	0.978713	0.010525
1066.82	0.900561	0.0104459
1067.78	0.834207	0.0099544
1068.75	0.765329	0.0095293
1069.71	0.679365	0.0089311
1070.67	0.60535	0.0084498
1071.64	0.545564	0.0080179
1072.6	0.485027	0.0075249
1073.57	0.429014	0.0071608
1074.53	0.373517	0.0067962
1075.5	0.310824	0.0060473
1076.46	0.264923	0.0057586
1077.43	0.223948	0.0054846
1078.39	0.190078	0.0052054
1079.36	0.162543	0.0049849
1080.32	0.141012	0.0048441
1081.28	0.117025	0.0047295
1082.25	0.0979553	0.0045181
1083.21	0.0841254	0.0043966
1084.18	0.0712834	0.0042723
1085.14	0.0636696	0.0042032
1086.11	0.0554935	0.0041039
1087.07	0.0486352	0.0040463
1088.04	0.0424286	0.0039574
1089	0.0426946	0.0038803
1089.96	0.0393529	0.0038498
1090.93	0.0375259	0.0038125
1091.89	0.0403108	0.0037878
1092.86	0.0420827	0.0037983
1093.82	0.0470202	0.0038334
1094.79	0.0373673	0.0038727
1095.75	0.0334426	0.0038685
1096.72	0.034412	0.0038068

Methanol 24.97 Mole % 38.6 Torr MS25AV1
MS25AD1

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1097.68	0.0373533	0.0037967
1098.64	0.0312463	0.0038068
1099.61	0.0300768	0.0038173
1100.57	0.0307482	0.0038194
1101.54	0.0282979	0.0038165
1102.5	0.0283365	0.003787
1103.47	0.0274945	0.0037907
1104.43	0.0278609	0.0037901
1105.4	0.0302705	0.0037663
1106.36	0.0318048	0.0037917
1107.32	0.0278638	0.0037968
1108.29	0.0281132	0.0038044
1109.25	0.026091	0.0038371
1110.22	0.0260058	0.003785
1111.18	0.0276481	0.0037476
1112.15	0.0288894	0.0038031
1113.11	0.0268334	0.0038033
1114.08	0.0349652	0.003807
1115.04	0.0327099	0.0038738
1116.01	0.0242083	0.0038804
1116.97	0.0230929	0.0038317
1117.93	0.0212072	0.0038812
1118.9	0.020359	0.003832
1119.86	0.0216118	0.003814
1120.83	0.0217221	0.0038381
1121.79	0.0208024	0.003872
1122.76	0.0214157	0.0038364
1123.72	0.0210044	0.0038417
1124.69	0.0212337	0.0039107
1125.65	0.018365	0.0039254
1126.61	0.0183012	0.0038936
1127.58	0.0166521	0.0038369
1128.54	0.0165804	0.0038743
1129.51	0.0186237	0.0039088
1130.47	0.0150149	0.0038819
1131.44	0.014998	0.0039297
1132.4	0.0150101	0.0038
1133.37	0.0135787	0.0038093
1134.33	0.0167958	0.0038452
1135.29	0.022705	0.0039092
1136.26	0.0209253	0.0039577
1137.22	0.0163127	0.0039249
1138.19	0.0141389	0.0039033
1139.15	0.0121851	0.0038823
1140.12	0.0140847	0.0038062

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1141.08	0.0189231	0.0038545
1142.05	0.0190432	0.0039684
1143.01	0.0128049	0.0039273
1143.98	0.0144753	0.0039109
1144.94	0.0142049	0.0038896
1145.9	0.0111103	0.0038242
1146.87	0.0107056	0.0038921
1147.83	0.0132188	0.0038789
1148.8	0.0116695	0.003869
1149.76	0.0108822	0.0038699
1150.73	0.0083908	0.0038628
1151.69	0.00935	0.00386
1152.66	0.011267	0.0038738
1153.62	0.0095518	0.0038934
1154.58	0.0086021	0.0038816
1155.55	0.0079871	0.0038098
1156.51	0.0089219	0.0038118
1157.48	0.0116113	0.0038774
1158.44	0.0087786	0.0038797
1159.41	0.009995	0.0038784
1160.37	0.0110356	0.0038565
1161.34	0.0107145	0.0038787
1162.3	0.0095405	0.0038423
1163.26	0.0107808	0.0038296
1164.23	0.0132375	0.0038856
1165.19	0.0121619	0.0039169
1166.16	0.0091515	0.003913
1167.12	0.0065118	0.0039222
1168.09	0.0078809	0.0038926
1169.05	0.0069607	0.00389
1170.02	0.0082748	0.0038357
1170.98	0.0074197	0.0038631
1171.94	0.0075801	0.0038406
1172.91	0.0079075	0.0038347
1173.87	0.0089621	0.0038583
1174.84	0.0109623	0.0038423
1175.8	0.009783	0.0037972
1176.77	0.0111368	0.0038782
1177.73	0.010247	0.0038717
1178.7	0.0109662	0.0038775
1179.66	0.0116856	0.0038291
1180.63	0.0123019	0.0038259
1181.59	0.0132396	0.0038206
1182.55	0.0154544	0.0038538
1183.52	0.015565	0.0039046

Methanol 24.97 Mole % 38.6 Torr MS25AV1 MS25AD1

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1184.48	0.0158941	0.0039223
1185.45	0.0163218	0.0038833
1186.41	0.016367	0.0038754
1187.38	0.0196007	0.0039178
1188.34	0.0184519	0.0038868
1189.31	0.017914	0.0038938
1190.27	0.0190815	0.003921
1191.23	0.018315	0.0039051
1192.2	0.0213896	0.0038911
1193.16	0.0201272	0.0038894
1194.13	0.0218361	0.003864
1195.09	0.0253409	0.0039058
1196.06	0.0247007	0.0039048
1197.02	0.0280438	0.0038592
1197.99	0.0273794	0.0038914
1198.95	0.0281546	0.0039033
1199.91	0.0271251	0.0038519
1200.88	0.0301805	0.003879
1201.84	0.033944	0.0039351
1202.81	0.0361582	0.0039112
1203.77	0.0310923	0.0039405
1204.74	0.0336703	0.0039023
1205.7	0.0327169	0.0038712
1206.67	0.0340891	0.0039187
1207.63	0.0380084	0.0039289
1208.6	0.0387288	0.0039517
1209.56	0.037314	0.0039657
1210.52	0.033724	0.0039051
1211.49	0.0412271	0.0038193
1212.45	0.0443888	0.0038414
1213.42	0.0450799	0.0039275
1214.38	0.0503943	0.0040507
1215.35	0.039174	0.0040468
1216.31	0.0378978	0.0040362
1217.28	0.0343701	0.0039585
1218.24	0.0361568	0.0040036
1219.2	0.0357003	0.0039181
1220.17	0.036447	0.0039589
1221.13	0.037675	0.0039814
1222.1	0.03614	0.0039013
1223.06	0.0399227	0.0038779
1224.03	0.0400228	0.0038821
1224.99	0.0486654	0.0038828
1225.96	0.0465862	0.0040123
1226.92	0.0396268	0.0040001

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1227.88	0.0441768	0.0041195
1228.85	0.0439116	0.0041305
1229.81	0.0316635	0.0039937
1230.78	0.0320323	0.0039024
1231.74	0.0344504	0.0038318
1232.71	0.0477521	0.0039209
1233.67	0.0463296	0.0040428
1234.64	0.0351632	0.0040852
1235.6	0.0342349	0.0039892
1236.57	0.0362657	0.0038546
1237.53	0.0383605	0.0038434
1238.49	0.0488339	0.0038101
1239.46	0.0552252	0.0039602
1240.42	0.0521733	0.00403
1241.39	0.0442491	0.0040655
1242.35	0.0435326	0.0040264
1243.32	0.0450397	0.0040085
1244.28	0.0426164	0.0039712
1245.25	0.0412062	0.0040004
1246.21	0.0420386	0.0038853
1247.17	0.042961	0.0038639
1248.14	0.0475449	0.0038725
1249.1	0.0532815	0.0039371
1250.07	0.0522015	0.0039807
1251.03	0.0494147	0.0039878
1252	0.0490857	0.0039101
1252.96	0.050533	0.003941
1253.93	0.0521228	0.0039248
1254.89	0.0534356	0.0038617
1255.85	0.0543001	0.0038336
1256.82	0.0579884	0.0038951
1257.78	0.0572328	0.0039251
1258.75	0.0551813	0.0039954
1259.71	0.054821	0.0039598
1260.68	0.056795	0.004048
1261.64	0.0557593	0.0039999
1262.61	0.0564299	0.0040098
1263.57	0.0554532	0.0040785
1264.53	0.0547988	0.0040628
1265.5	0.0555522	0.0040886
1266.46	0.0537856	0.0040885
1267.43	0.0581981	0.0040811
1268.39	0.056209	0.0041216
1269.36	0.0600764	0.0040789
1270.32	0.0565702	0.004081

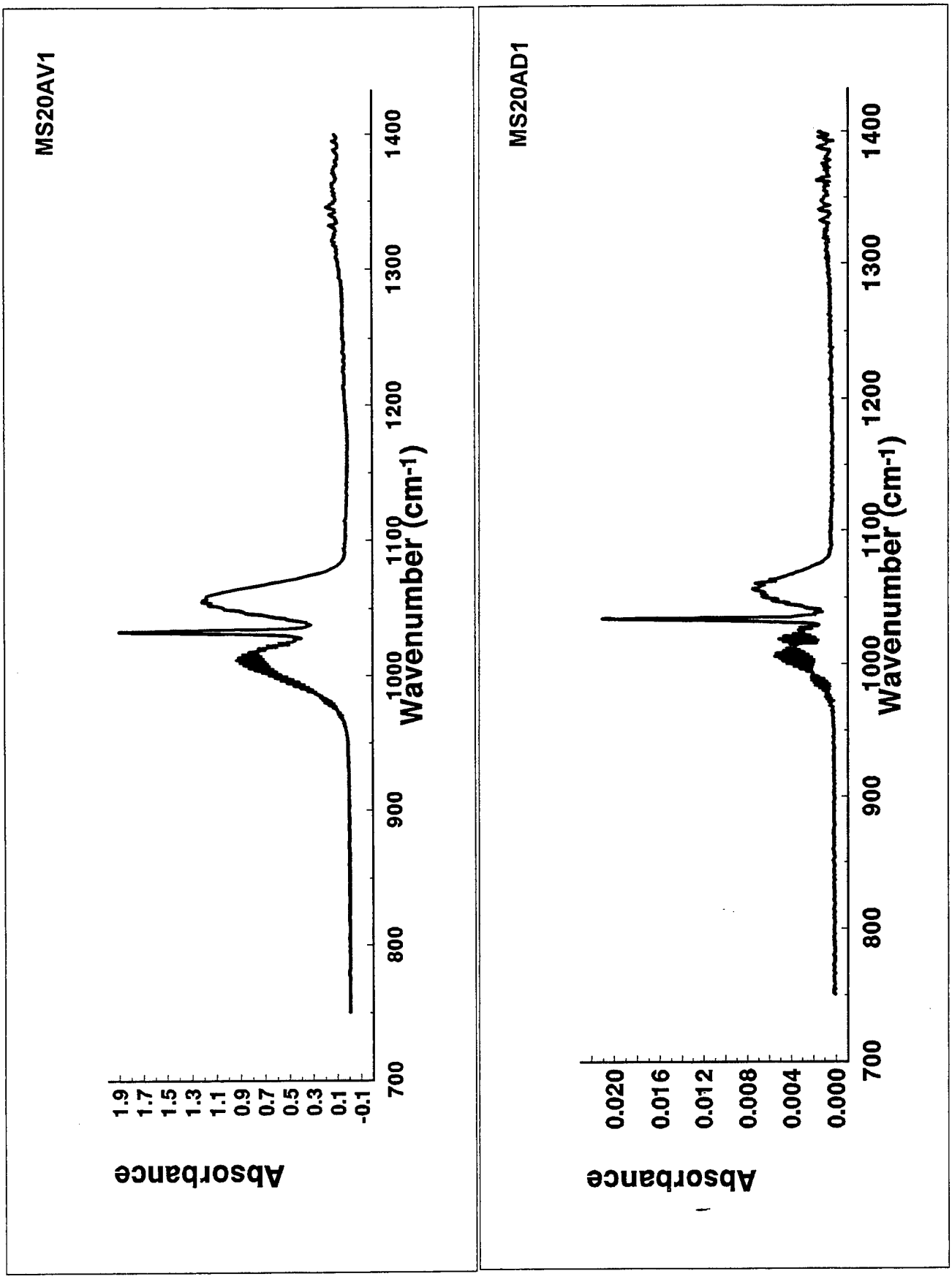
Methanol 24.97 Mole % 38.6 Torr MS25AV1
MS25AD1

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1271.29	0.0549202	0.0040701
1272.25	0.0567236	0.0040988
1273.22	0.0542747	0.0040467
1274.18	0.0532991	0.0040997
1275.14	0.0567377	0.0040743
1276.11	0.0529998	0.0041373
1277.07	0.0553603	0.0040771
1278.04	0.0535041	0.0040196
1279	0.0558108	0.0040823
1279.97	0.0577158	0.0040323
1280.93	0.0551154	0.0040898
1281.9	0.0596974	0.0040308
1282.86	0.0575162	0.0040139
1283.82	0.0635161	0.0040021
1284.79	0.0612709	0.0040218
1285.75	0.0595719	0.0040336
1286.72	0.0614682	0.0039924
1287.68	0.0615597	0.0040093
1288.65	0.064036	0.0040114
1289.61	0.0661275	0.0040448
1290.58	0.0674065	0.0040114
1291.54	0.0683908	0.0039468
1292.5	0.0775133	0.0039291
1293.47	0.0858419	0.0039986
1294.43	0.0844001	0.0041079
1295.4	0.0801474	0.0041712
1296.36	0.0840207	0.004109
1297.33	0.0827017	0.0041724
1298.29	0.0826196	0.0040829
1299.26	0.0867704	0.0040349
1300.22	0.0861539	0.0040664
1301.18	0.0915663	0.0040446
1302.15	0.0954072	0.0040307
1303.11	0.0974224	0.0041135
1304.08	0.0983196	0.004051
1305.04	0.0954307	0.004116
1306.01	0.106963	0.0040372
1306.97	0.0995142	0.0040293
1307.94	0.111865	0.004173
1308.9	0.116134	0.0041806
1309.87	0.109578	0.0042358
1310.83	0.1043	0.0042142
1311.79	0.109602	0.0041117
1312.76	0.112297	0.0041757
1313.72	0.106575	0.0041266

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1314.69	0.10858	0.0041021
1315.65	0.117375	0.0040911
1316.62	0.113104	0.0038547
1317.58	0.138873	0.0039868
1318.55	0.137265	0.0041032
1319.51	0.128894	0.0042213
1320.47	0.150848	0.0042757
1321.44	0.14859	0.00434
1322.4	0.145023	0.0043704
1323.37	0.133248	0.0043428
1324.33	0.134166	0.0044388
1325.3	0.126372	0.0044136
1326.26	0.127985	0.0043563
1327.23	0.120647	0.004315
1328.19	0.117679	0.0041028
1329.15	0.125109	0.0039467
1330.12	0.129217	0.0038823
1331.08	0.156496	0.0041018
1332.05	0.18036	0.0046963
1333.01	0.123414	0.0047182
1333.98	0.108625	0.0044117
1334.94	0.10979	0.0040349
1335.91	0.110046	0.0037101
1336.87	0.119556	0.0034635
1337.84	0.12321	0.0034996
1338.8	0.142929	0.003668
1339.76	0.16874	0.0043919
1340.73	0.146984	0.0048594
1341.69	0.125409	0.0044797
1342.66	0.130044	0.0040261
1343.62	0.133188	0.0036767
1344.59	0.17171	0.0034567
1345.55	0.208184	0.0041725
1346.52	0.171783	0.0045204
1347.48	0.175752	0.0047672
1348.44	0.137934	0.0046978
1349.41	0.139015	0.0045737
1350.37	0.122795	0.0043808
1351.34	0.119593	0.0042422
1352.3	0.124805	0.0040475
1353.27	0.127081	0.003971
1354.23	0.138091	0.0039804
1355.2	0.137797	0.0039925
1356.16	0.129222	0.0041126
1357.12	0.146338	0.0040644

Methanol 24.97 Mole % 38.6 Torr MS25AV1
MS25AD1

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1358.09	0.141491	0.0040274
1359.05	0.137105	0.0039161
1360.02	0.150032	0.0035878
1360.98	0.151875	0.0038728
1361.95	0.143244	0.0041299
1362.91	0.148352	0.0044567
1363.88	0.128853	0.0048164
1364.84	0.126342	0.0043893
1365.8	0.121036	0.004227
1366.77	0.116679	0.0040541
1367.73	0.120678	0.0040724
1368.7	0.127647	0.0041364
1369.66	0.125756	0.0042841
1370.63	0.144753	0.0043127
1371.59	0.135153	0.0041178
1372.56	0.140596	0.0041843
1373.52	0.136976	0.0043379
1374.49	0.129993	0.0048362
1375.45	0.127286	0.004925
1376.41	0.113617	0.0047624
1377.38	0.110766	0.0045668
1378.34	0.114021	0.0043819
1379.31	0.120831	0.0043633
1380.27	0.119628	0.004567
1381.24	0.103571	0.0045769
1382.2	0.101971	0.0045146
1383.17	0.100927	0.0042916
1384.13	0.0980606	0.0039205
1385.09	0.107766	0.0036612
1386.06	0.111185	0.0035586
1387.02	0.123562	0.0039634
1387.99	0.130676	0.0050253
1388.95	0.111558	0.0050682
1389.92	0.102477	0.004739
1390.88	0.0979317	0.0042293
1391.85	0.101082	0.0037574
1392.81	0.102795	0.003275
1393.77	0.113451	0.0032572
1394.74	0.135511	0.0039619
1395.7	0.114917	0.0044092
1396.67	0.106117	0.0044612
1397.63	0.106322	0.0041059
1398.6	0.115773	0.0042416
1399.56	0.120353	0.0050269


MS20AV1
Absorbance
1.9
1.7
1.5
1.3
1.1
0.9
0.7
0.5
0.3
0.1
-0.1
700
800
900
1000
1100
1200
1300
1400
Wavenumber (cm-1)
MS20AD1
Absorbance
0.020
0.016
0.012
0.008
0.004
0.000
700
800
900
1000
1100
1200
1300
1400
Wavenumber (cm-1)

Methanol 20.00 Mole % 33.0 Torr MS20AV1
MS20AD1

WN (cm-1)	AVE (A.U.)	AD (A.U.)	WN (cm-1)	AVE (A.U.)	AD (A.U.)
750.455	-0.0071057	0.0000546	793.859	-0.0070601	0.0001636
751.42	-0.0083014	0.0001458	794.824	-0.0075955	0.0001114
752.384	-0.0081463	0.0001586	795.788	-0.0065155	0.0000725
753.349	-0.0081068	0.0001662	796.753	-0.0070636	0.0001246
754.313	-0.008655	0.0000563	797.717	-0.0072485	0.0001446
755.278	-0.0087084	0.0001208	798.682	-0.0068361	0.0001474
756.242	-0.0082969	0.0001358	799.646	-0.0069949	0.0001535
757.207	-0.0086313	0.0001032	800.611	-0.0071547	0.0001294
758.171	-0.0073932	0.0000602	801.576	-0.0070834	0.000162
759.136	-0.0072611	0.0000851	802.54	-0.0069149	0.0001248
760.1	-0.0078926	0.0001191	803.505	-0.0066321	0.0000819
761.065	-0.0076914	0.0001333	804.469	-0.0065214	0.0000853
762.029	-0.0075101	0.0001658	805.434	-0.0058577	0.0000614
762.994	-0.0090516	0.0001185	806.398	-0.0053293	0.0000876
763.959	-0.0086176	0.0001476	807.363	-0.0062576	0.0001141
764.923	-0.0081679	0.000118	808.327	-0.0069946	0.0000998
765.888	-0.0090911	0.000055	809.292	-0.0074959	0.0001469
766.852	-0.0081093	0.0001325	810.256	-0.0079527	0.0001123
767.817	-0.0082737	0.0001521	811.221	-0.0080951	0.000157
768.781	-0.0089532	0.0001527	812.185	-0.0075554	0.0000652
769.746	-0.008464	0.0001067	813.15	-0.0077719	0.0001266
770.71	-0.0082259	0.0000918	814.115	-0.0069884	0.0001752
771.675	-0.0085712	0.0001483	815.079	-0.0069073	0.0001531
772.639	-0.0080765	0.0001695	816.044	-0.0062071	0.0001272
773.604	-0.0085644	0.0001018	817.008	-0.0055995	0.0000948
774.568	-0.0093347	0.0001072	817.973	-0.0057094	0.0000844
775.533	-0.0094081	0.0000718	818.937	-0.0045577	0.0000588
776.498	-0.0075173	0.0000524	819.902	-0.0031771	0.0001238
777.462	-0.0040017	0.0000431	820.866	-0.0031808	0.0001137
778.427	-0.0040845	0.0001067	821.831	-0.0056159	0.0001353
779.391	-0.0012034	0.0001846	822.795	-0.006734	0.000115
780.356	-0.0016373	0.0001377	823.76	-0.0065458	0.0000925
781.32	-0.0058849	0.0001002	824.724	-0.0055154	0.0001263
782.285	-0.0085673	0.0000948	825.689	-0.0065965	0.0001119
783.249	-0.0089973	0.0000792	826.654	-0.0061491	0.0000912
784.214	-0.0089625	0.0000959	827.618	-0.0048332	0.0000812
785.178	-0.0092377	0.0000825	828.583	-0.0051111	0.0001346
786.143	-0.0086876	0.0001011	829.547	-0.0059009	0.0001528
787.107	-0.0093591	0.0001358	830.512	-0.0064919	0.0001321
788.072	-0.0089457	0.0001154	831.476	-0.0062793	0.0001474
789.037	-0.0088571	0.0001439	832.441	-0.0070814	0.0001166
790.001	-0.0081538	0.0000653	833.405	-0.0074304	0.0001417
790.966	-0.0079412	0.0001844	834.37	-0.0072791	0.0001472
791.93	-0.0077822	0.000132	835.334	-0.007151	0.0001357
792.895	-0.0077921	0.0001667	836.299	-0.0067198	0.0001031

Methanol 20.00 Mole % 33.0 Torr MS20AV1
MS20AD1

WN (cm-1)	AVE (A.U.)	AD (A.U.)	WN (cm-1)	AVE (A.U.)	AD (A.U.)
837.263	-0.0061283	0.0001383	880.668	-0.0055142	0.0001314
838.228	-0.0060549	0.0001443	881.632	-0.0056384	0.0001477
839.193	-0.0058169	0.0001285	882.597	-0.0055897	0.0001466
840.157	-0.0053456	0.0001053	883.561	-0.0048764	0.0001437
841.122	-0.0055356	0.0001492	884.526	-0.0048091	0.0001509
842.086	-0.0058697	0.0001376	885.49	-0.0038974	0.0001429
843.051	-0.0062796	0.0001273	886.455	-0.0040617	0.0001458
844.015	-0.0066395	0.000145	887.419	-0.0039193	0.0001624
844.98	-0.0059156	0.0001437	888.384	-0.0040966	0.000121
845.944	-0.0059038	0.000132	889.349	-0.0044429	0.0001513
846.909	-0.0062588	0.0000989	890.313	-0.0049429	0.0001524
847.873	-0.0061146	0.0000898	891.278	-0.0052522	0.000147
848.838	-0.0055263	0.0001384	892.242	-0.004658	0.0001546
849.802	-0.005498	0.0001462	893.207	-0.0052181	0.0001279
850.767	-0.0055656	0.000208	894.171	-0.0044861	0.0001118
851.732	-0.0052139	0.0001717	895.136	-0.0040208	0.0001695
852.696	-0.0051261	0.0001083	896.1	-0.0034924	0.0001486
853.661	-0.0056227	0.000083	897.065	-0.0022334	0.0001378
854.625	-0.0060716	0.0001036	898.029	-0.0020769	0.0001017
855.59	-0.006291	0.0001456	898.994	-0.0002273	0.0001076
856.554	-0.0067073	0.0001209	899.958	-0.0001949	0.0001456
857.519	-0.0063357	0.0001323	900.923	-0.0035162	0.0001293
858.483	-0.0055215	0.0001759	901.887	-0.003854	0.0001429
859.448	-0.0032672	0.0002033	902.852	-0.0044775	0.0001763
860.412	-0.003249	0.0001908	903.817	-0.0045086	0.0001253
861.377	-0.0052194	0.0001454	904.781	-0.0043658	0.0001471
862.341	-0.0050317	0.0001336	905.746	-0.0036531	0.0001315
863.306	-0.0053425	0.0001561	906.71	-0.0027614	0.0001455
864.271	-0.0053649	0.0001147	907.675	-0.0021755	0.0001389
865.235	-0.0055211	0.0001695	908.639	-0.0015783	0.0001326
866.2	-0.0052222	0.0001704	909.604	-0.0017417	0.000101
867.164	-0.0054036	0.0001179	910.568	-0.001945	0.0001642
868.129	-0.0059097	0.0001199	911.533	-0.0018651	0.0001245
869.093	-0.0056824	0.0001131	912.497	-0.0016051	0.000143
870.058	-0.0057106	0.0001207	913.462	-0.0018588	0.0001495
871.022	-0.0052105	0.0002159	914.427	-0.0026249	0.0001501
871.987	-0.0035726	0.0001822	915.391	-0.0019679	0.0001472
872.951	-0.0022628	0.0001847	916.356	-0.0017123	0.0001207
873.916	-0.0034315	0.0001764	917.32	-0.0022397	0.0001689
874.88	-0.0037163	0.0001384	918.285	-0.0013783	0.000161
875.845	-0.0040185	0.0001397	919.249	-0.0011215	0.0000988
876.809	-0.004394	0.0001255	920.214	-0.0004512	0.000141
877.774	-0.0051111	0.0000856	921.178	-0.000466	0.0001598
878.739	-0.0050032	0.0000853	922.143	-0.000276	0.0001761
879.703	-0.0053814	0.0001352	923.107	-0.0006785	0.0001398

Methanol 20.00 Mole % 33.0 Torr MS20AV1
MS20AD1

WN (cm-1)	AVE (A.U.)	AD (A.U.)
924.072	-0.0000426	0.000155
925.037	0.000204	0.0001643
926.001	-0.0002164	0.000155
926.965	-0.0004729	0.0001799
927.93	-0.0001637	0.0001482
928.895	0.0000256	0.000175
929.859	0.0002246	0.000167
930.824	0.0011383	0.000173
931.788	0.0019034	0.0001404
932.753	0.0034983	0.0001594
933.717	0.0026853	0.0001873
934.682	0.0023692	0.0001673
935.646	0.0016202	0.0001857
936.611	0.0015036	0.0001265
937.575	0.0024293	0.0001528
938.54	0.0025918	0.0001628
939.505	0.0040029	0.0001757
940.469	0.0039678	0.000222
941.434	0.0041679	0.0001797
942.398	0.0031792	0.0001558
943.363	0.0038903	0.0001683
944.327	0.0054934	0.000185
945.292	0.0038855	0.0002097
946.256	0.0055345	0.0001565
947.221	0.0058549	0.0001642
948.185	0.0051468	0.0001825
949.15	0.0052356	0.0001522
950.115	0.0055593	0.0001525
951.079	0.0101757	0.0001999
952.044	0.0074829	0.0001401
953.008	0.0108758	0.0002135
953.973	0.0123911	0.0001757
954.937	0.0127106	0.0002417
955.902	0.0170476	0.0001943
956.866	0.0133617	0.0002343
957.831	0.0202534	0.0002342
958.795	0.0195038	0.0001991
959.76	0.0235499	0.000224
960.724	0.0276005	0.0002471
961.689	0.0245347	0.0002778
962.653	0.0336038	0.000291
963.618	0.0283834	0.0001967
964.583	0.0387323	0.0003304
965.547	0.0376231	0.0002251
966.512	0.043121	0.0002783

WN (cm-1)	AVE (A.U.)	AD (A.U.)
967.476	0.054381	0.0002731
968.441	0.0548695	0.0004767
969.405	0.070626	0.0004403
970.37	0.0571847	0.0003586
971.334	0.082054	0.0005612
972.299	0.0719323	0.0002196
973.263	0.0915748	0.000734
974.228	0.0953683	0.0003907
975.192	0.0988841	0.0008475
976.157	0.125781	0.000512
977.122	0.108369	0.0008067
978.086	0.160308	0.000673
979.051	0.122686	0.0006765
980.015	0.19549	0.0011179
980.98	0.145805	0.0005971
981.944	0.216605	0.0014088
982.909	0.18025	0.000552
983.873	0.236161	0.0017859
984.838	0.225291	0.0006001
985.802	0.253967	0.0019054
986.767	0.281752	0.0008035
987.731	0.2775	0.0021072
988.696	0.340926	0.0010395
989.661	0.304755	0.0021318
990.625	0.401006	0.0015318
991.59	0.336414	0.0021203
992.554	0.459152	0.001996
993.519	0.374487	0.0020525
994.483	0.515582	0.0025853
995.448	0.417928	0.0021402
996.412	0.56325	0.0031833
997.377	0.467211	0.0021169
998.341	0.612189	0.003683
999.306	0.518405	0.0020434
1000.27	0.663731	0.0043485
1001.23	0.565743	0.0019578
1002.2	0.716845	0.0047425
1003.16	0.60645	0.001941
1004.12	0.77788	0.005009
1005.09	0.63291	0.0021621
1006.05	0.826593	0.0054366
1007.02	0.662127	0.0024597
1007.98	0.869218	0.0052935
1008.95	0.681094	0.0028496
1009.91	0.900412	0.0046662

Methanol 20.00 Mole % 33.0 Torr MS20AV1
MS20AD1

WN (cm-1)	AVE (A.U.)	AD (A.U.)	WN (cm-1)	AVE (A.U.)	AD (A.U.)
1010.88	0.699522	0.0032211	1054.28	1.13773	0.00649
1011.84	0.923767	0.0043688	1055.24	1.20652	0.0072637
1012.8	0.715349	0.003686	1056.21	1.20105	0.0074567
1013.77	0.910953	0.0034134	1057.17	1.16795	0.0068854
1014.73	0.732569	0.0041026	1058.14	1.17659	0.0067599
1015.7	0.878025	0.0017128	1059.1	1.17562	0.0064236
1016.66	0.753084	0.0046674	1060.07	1.14344	0.0072399
1017.63	0.824577	0.0015558	1061.03	1.09321	0.0065197
1018.59	0.760936	0.0050573	1061.99	1.05607	0.0054188
1019.56	0.700973	0.0018339	1062.96	1.01035	0.0059108
1020.52	0.746452	0.004662	1063.92	0.951814	0.0050749
1021.49	0.602469	0.0022969	1064.89	0.888508	0.0047487
1022.45	0.675562	0.0037833	1065.85	0.820522	0.0044153
1023.41	0.50286	0.0028314	1066.82	0.755187	0.004198
1024.38	0.57986	0.0028342	1067.78	0.700098	0.0037209
1025.34	0.46358	0.0033164	1068.75	0.642919	0.0035423
1026.31	0.450191	0.0021347	1069.71	0.571386	0.0029974
1027.27	0.457413	0.0031825	1070.67	0.509332	0.0027161
1028.24	0.39925	0.0016011	1071.64	0.459522	0.0023812
1029.2	0.459224	0.0015116	1072.6	0.408855	0.0021882
1030.17	0.538591	0.0021111	1073.57	0.362399	0.0019433
1031.13	0.820948	0.0041481	1074.53	0.315848	0.0016308
1032.1	1.28382	0.0085032	1075.5	0.26332	0.0013381
1033.06	1.89581	0.0152189	1076.46	0.224385	0.0011185
1034.02	1.38633	0.0209885	1077.43	0.189872	0.0010417
1034.99	0.526973	0.0039882	1078.39	0.161219	0.0008757
1035.95	0.387138	0.0034118	1079.36	0.13792	0.0007612
1036.92	0.34768	0.0018207	1080.32	0.119711	0.0006364
1037.88	0.317579	0.0019186	1081.28	0.0995177	0.0006205
1038.85	0.352921	0.001216	1082.25	0.0834598	0.0005273
1039.81	0.357162	0.001832	1083.21	0.0719525	0.0005267
1040.78	0.42231	0.0013863	1084.18	0.0611045	0.000471
1041.74	0.512336	0.00266	1085.14	0.0546761	0.0004931
1042.7	0.522088	0.0028413	1086.11	0.0476348	0.0004332
1043.67	0.636678	0.0031362	1087.07	0.0421903	0.00042
1044.63	0.676265	0.0044425	1088.04	0.0368536	0.0003863
1045.6	0.722384	0.0041607	1089	0.03709	0.0003562
1046.56	0.854234	0.005256	1089.96	0.0342762	0.0004271
1047.53	0.87111	0.0056837	1090.93	0.0327237	0.0003657
1048.49	0.911708	0.0051924	1091.89	0.035082	0.0003921
1049.46	1.0252	0.0061351	1092.86	0.0363938	0.0004468
1050.42	1.03034	0.0066005	1093.82	0.0406779	0.0004121
1051.39	1.06382	0.0061839	1094.79	0.0325997	0.0004185
1052.35	1.15361	0.0067044	1095.75	0.0292913	0.000387
1053.31	1.14078	0.0063694	1096.72	0.0298776	0.0004456

Methanol 20.00 Mole % 33.0 Torr MS20AV1
MS20AD1

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1097.68	0.0324299	0.0004585
1098.64	0.0273018	0.0004782
1099.61	0.0262298	0.0004065
1100.57	0.02698	0.0004318
1101.54	0.0250002	0.0003708
1102.5	0.0250106	0.0003938
1103.47	0.0243264	0.0004198
1104.43	0.0245683	0.0003562
1105.4	0.0263684	0.0003891
1106.36	0.0276871	0.0004323
1107.32	0.0244123	0.0004358
1108.29	0.0247479	0.0004626
1109.25	0.0231189	0.0003864
1110.22	0.0228287	0.0003916
1111.18	0.024172	0.0003905
1112.15	0.025386	0.0004026
1113.11	0.0235971	0.0003637
1114.08	0.0305445	0.0004247
1115.04	0.0287299	0.0003807
1116.01	0.0215852	0.0003943
1116.97	0.0205655	0.0003787
1117.93	0.01893	0.0003434
1118.9	0.0183836	0.0003622
1119.86	0.0192473	0.0003692
1120.83	0.019469	0.0003486
1121.79	0.0188094	0.0003371
1122.76	0.0193498	0.0002578
1123.72	0.0189613	0.0002901
1124.69	0.019199	0.0003719
1125.65	0.0167487	0.0003246
1126.61	0.0166698	0.0002769
1127.58	0.0153132	0.0002554
1128.54	0.0150798	0.0003025
1129.51	0.0168144	0.0003255
1130.47	0.0137727	0.0003267
1131.44	0.0139058	0.0003467
1132.4	0.0138706	0.0003072
1133.37	0.0128271	0.0003073
1134.33	0.0155311	0.0002533
1135.29	0.0203718	0.0003428
1136.26	0.0191977	0.0003772
1137.22	0.015245	0.0003504
1138.19	0.013493	0.0003028
1139.15	0.0117702	0.0003252
1140.12	0.0133291	0.0002811

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1141.08	0.01716	0.0003675
1142.05	0.0176383	0.000354
1143.01	0.0121855	0.0003022
1143.98	0.0137934	0.0002657
1144.94	0.0135356	0.0003483
1145.9	0.0109664	0.0003362
1146.87	0.0106523	0.0002886
1147.83	0.0128047	0.0002739
1148.8	0.0113505	0.0002653
1149.76	0.0109564	0.0003222
1150.73	0.0085794	0.0003344
1151.69	0.0094938	0.0003324
1152.66	0.0109174	0.0003017
1153.62	0.0095037	0.0002766
1154.58	0.0087575	0.0003418
1155.55	0.0081511	0.0003089
1156.51	0.0088935	0.0002574
1157.48	0.0113559	0.0003277
1158.44	0.0090042	0.0003201
1159.41	0.0101229	0.0003676
1160.37	0.0110608	0.0002988
1161.34	0.0105325	0.0002992
1162.3	0.0096043	0.0003389
1163.26	0.0106583	0.0002516
1164.23	0.0127846	0.0002918
1165.19	0.0118422	0.0003172
1166.16	0.0093623	0.0003836
1167.12	0.0071015	0.0003084
1168.09	0.0081438	0.0002967
1169.05	0.0073597	0.0002583
1170.02	0.0085493	0.0002657
1170.98	0.0077248	0.0002995
1171.94	0.0080317	0.0002855
1172.91	0.0084532	0.0002725
1173.87	0.0092982	0.000282
1174.84	0.0112083	0.0003421
1175.8	0.0100681	0.0003542
1176.77	0.0111506	0.0002856
1177.73	0.0103808	0.0003428
1178.7	0.0109527	0.0003521
1179.66	0.0116012	0.0003149
1180.63	0.0121263	0.0003043
1181.59	0.0127898	0.0003217
1182.55	0.0147866	0.0003266
1183.52	0.0149168	0.0003206

Methanol 20.00 Mole % 33.0 Torr MS20AV1 MS20AD1

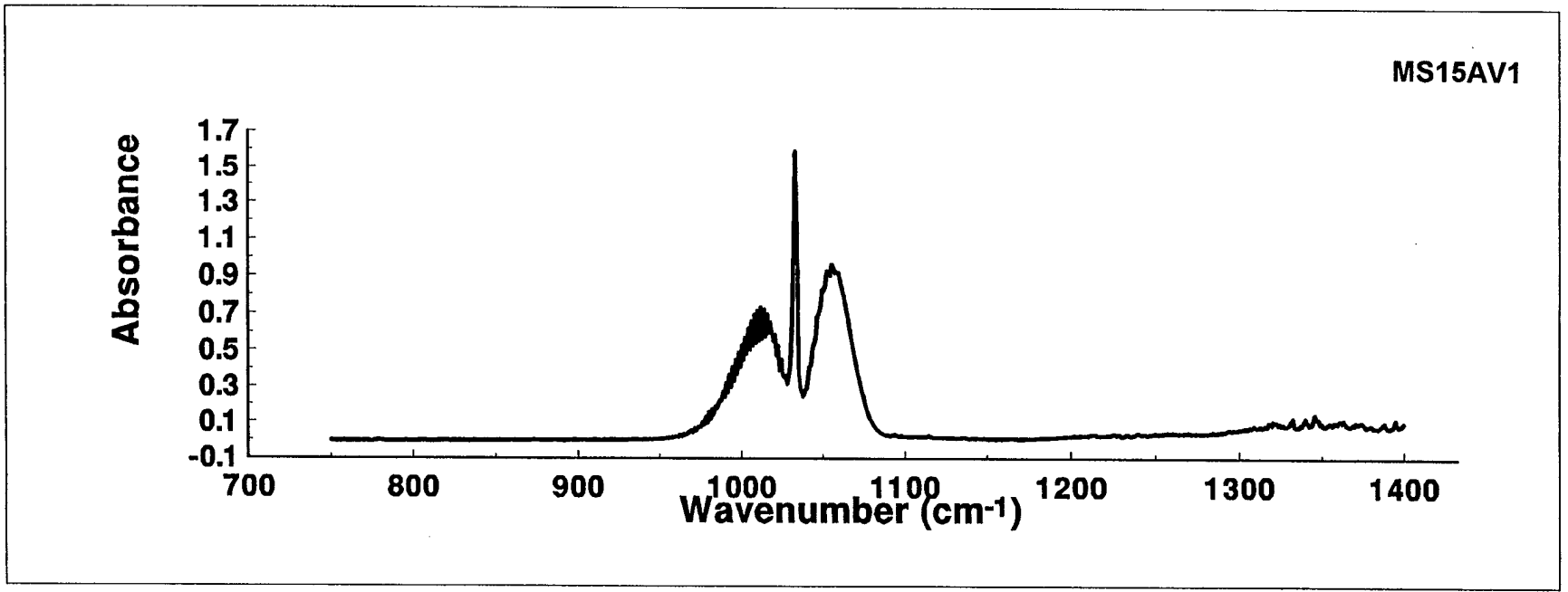
WN (cm-1)	AVE (A.U.)	AD (A.U.)	WN (cm-1)	AVE (A.U.)	AD (A.U.)
1184.48	0.0153238	0.0003307	1227.88	0.0394845	0.0004209
1185.45	0.0157383	0.0003296	1228.85	0.0394042	0.0004592
1186.41	0.0158399	0.0003186	1229.81	0.0291021	0.0004277
1187.38	0.0186231	0.0003475	1230.78	0.0293274	0.00032
1188.34	0.0174597	0.0003474	1231.74	0.03112	0.000369
1189.31	0.017117	0.0002975	1232.71	0.0424889	0.0003693
1190.27	0.0180779	0.0003135	1233.67	0.0413918	0.0004993
1191.23	0.017396	0.0003331	1234.64	0.031885	0.0004619
1192.2	0.0199922	0.0002909	1235.6	0.0311337	0.0004313
1193.16	0.0189195	0.0003254	1236.57	0.0326568	0.0004023
1194.13	0.0205196	0.0003433	1237.53	0.0345238	0.0002863
1195.09	0.0234292	0.0004172	1238.49	0.0430349	0.0004793
1196.06	0.0230506	0.0003484	1239.46	0.0487338	0.0004472
1197.02	0.0258338	0.0003751	1240.42	0.0461638	0.0004912
1197.99	0.0253652	0.0003757	1241.39	0.0396874	0.0004367
1198.95	0.0259615	0.0003761	1242.35	0.0387956	0.0004703
1199.91	0.0249808	0.000337	1243.32	0.040401	0.000425
1200.88	0.027634	0.0003009	1244.28	0.0383111	0.0004688
1201.84	0.0306531	0.0003848	1245.25	0.0370263	0.0004489
1202.81	0.0325974	0.0004141	1246.21	0.0376298	0.0004466
1203.77	0.0283756	0.0004072	1247.17	0.0383921	0.0004326
1204.74	0.0305225	0.0003844	1248.14	0.0420561	0.000446
1205.7	0.0299728	0.000396	1249.1	0.0470075	0.0005107
1206.67	0.0310347	0.0003101	1250.07	0.0461198	0.0005248
1207.63	0.0343969	0.0004077	1251.03	0.043978	0.0004574
1208.6	0.0350272	0.0003784	1252	0.0434697	0.0004607
1209.56	0.0339577	0.0003711	1252.96	0.0447559	0.0005018
1210.52	0.0307793	0.0003527	1253.93	0.0461013	0.0005145
1211.49	0.0371934	0.0003408	1254.89	0.0471872	0.0004928
1212.45	0.0397403	0.0004135	1255.85	0.0479753	0.000512
1213.42	0.0402679	0.0004047	1256.82	0.0512065	0.0004229
1214.38	0.0447106	0.0005137	1257.78	0.050481	0.00052
1215.35	0.0354064	0.000424	1258.75	0.0488407	0.0004484
1216.31	0.0341021	0.0003801	1259.71	0.0484071	0.0005017
1217.28	0.0310635	0.000415	1260.68	0.0504431	0.0004358
1218.24	0.0327716	0.0003802	1261.64	0.0490797	0.0005842
1219.2	0.0324485	0.0003548	1262.61	0.0495926	0.0005036
1220.17	0.032971	0.0003419	1263.57	0.0486967	0.0005532
1221.13	0.0340203	0.0003509	1264.53	0.0481756	0.0005068
1222.1	0.032632	0.0003827	1265.5	0.0488836	0.0004821
1223.06	0.0360288	0.0003881	1266.46	0.0474426	0.000498
1224.03	0.0358535	0.0004145	1267.43	0.0510522	0.0004555
1224.99	0.0433955	0.0004294	1268.39	0.0495241	0.0005134
1225.96	0.0416519	0.0004648	1269.36	0.0528279	0.0005379
1226.92	0.0356197	0.0004235	1270.32	0.0498264	0.0004654

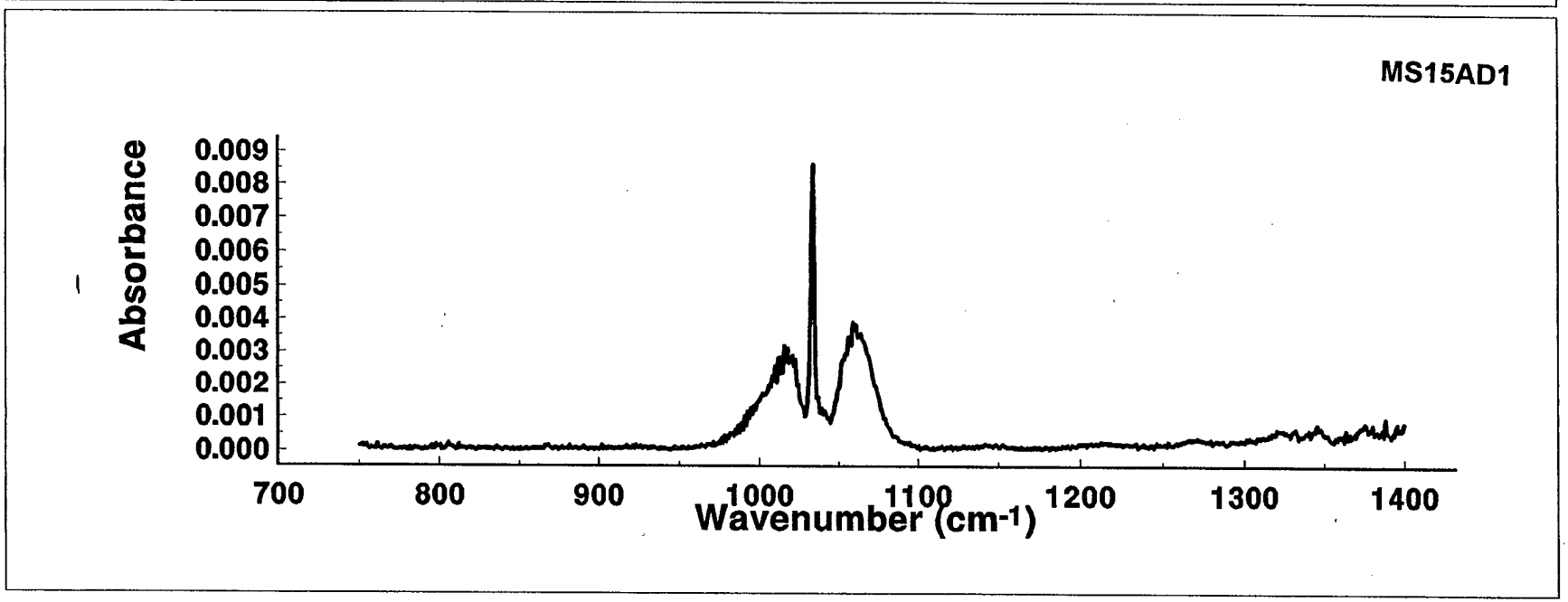
Methanol 20.00 Mole % 33.0 Torr MS20AV1
MS20AD1

WN (cm-1)	AVE (A.U.)	AD (A.U.)	WN (cm-1)	AVE (A.U.)	AD (A.U.)
1271.29	0.0484963	0.0005011	1314.69	0.0939791	0.0008332
1272.25	0.0502306	0.0004917	1315.65	0.10165	0.000647
1273.22	0.0477097	0.000542	1316.62	0.0979317	0.0007834
1274.18	0.0469	0.0004789	1317.58	0.120043	0.0006749
1275.14	0.0497539	0.0005532	1318.55	0.1191	0.0010181
1276.11	0.0467115	0.0005437	1319.51	0.112596	0.0007434
1277.07	0.0486144	0.0004418	1320.47	0.130098	0.0009415
1278.04	0.0468657	0.0005338	1321.44	0.128161	0.0009594
1279	0.0489354	0.0004593	1322.4	0.125231	0.0008407
1279.97	0.0507139	0.0005534	1323.37	0.1148	0.0009814
1280.93	0.0486279	0.0004571	1324.33	0.116025	0.0007569
1281.9	0.0523863	0.0005502	1325.3	0.109079	0.0009105
1282.86	0.0505937	0.0005059	1326.26	0.11061	0.0007876
1283.82	0.0555824	0.0005751	1327.23	0.104294	0.0007376
1284.79	0.0537083	0.0006145	1328.19	0.101565	0.0007695
1285.75	0.0522966	0.0004984	1329.15	0.107739	0.0007213
1286.72	0.0540285	0.0005164	1330.12	0.111319	0.0006316
1287.68	0.0545232	0.0005305	1331.08	0.133965	0.0010005
1288.65	0.0562902	0.0005716	1332.05	0.155213	0.0012936
1289.61	0.0579991	0.0006222	1333.01	0.107193	0.001124
1290.58	0.0589243	0.0006262	1333.98	0.0943365	0.0009673
1291.54	0.0596316	0.0005493	1334.94	0.0954888	0.0006825
1292.5	0.0671332	0.0006636	1335.91	0.0961097	0.0006516
1293.47	0.0745588	0.0006188	1336.87	0.105852	0.0005194
1294.43	0.0733339	0.0005952	1337.84	0.107655	0.0006176
1295.4	0.0696352	0.0006082	1338.8	0.126201	0.0006222
1296.36	0.0730919	0.0006509	1339.76	0.147979	0.0012884
1297.33	0.0719082	0.0007086	1340.73	0.13059	0.0014321
1298.29	0.0719198	0.0006345	1341.69	0.108313	0.0011476
1299.26	0.0753275	0.000723	1342.66	0.112052	0.0009945
1300.22	0.0749401	0.0006585	1343.62	0.114964	0.0005727
1301.18	0.0794787	0.0006217	1344.59	0.146767	0.0009563
1302.15	0.0825253	0.0007617	1345.55	0.178475	0.0010649
1303.11	0.0844212	0.000614	1346.52	0.147822	0.0011709
1304.08	0.0849155	0.0008335	1347.48	0.151597	0.0012342
1305.04	0.0825731	0.0006443	1348.44	0.119225	0.0010907
1306.01	0.0925002	0.000781	1349.41	0.120749	0.0010356
1306.97	0.0861804	0.0006955	1350.37	0.10686	0.0009941
1307.94	0.0966243	0.0007297	1351.34	0.103807	0.0006892
1308.9	0.100281	0.0008452	1352.3	0.107877	0.0007847
1309.87	0.0948092	0.0008285	1353.27	0.109926	0.0008155
1310.83	0.0902546	0.0008185	1354.23	0.11955	0.0007999
1311.79	0.0946765	0.0007747	1355.2	0.120176	0.0009852
1312.76	0.0980339	0.0007445	1356.16	0.112128	0.000928
1313.72	0.0926523	0.0007945	1357.12	0.126492	0.0009819

Methanol 20.00 Mole % 33.0 Torr MS20AV1
MS20AD1

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1358.09	0.122949	0.000959
1359.05	0.119252	0.0006754
1360.02	0.129794	0.0008346
1360.98	0.13452	0.001004
1361.95	0.126967	0.0005896
1362.91	0.1329	0.0016196
1363.88	0.115655	0.0013826
1364.84	0.10961	0.0012322
1365.8	0.105078	0.0005852
1366.77	0.101717	0.0007308
1367.73	0.105284	0.0007081
1368.7	0.112871	0.0007477
1369.66	0.10977	0.0007124
1370.63	0.125564	0.0009325
1371.59	0.117738	0.0008404
1372.56	0.123004	0.0005918
1373.52	0.122223	0.0009901
1374.49	0.117292	0.0007494
1375.45	0.113706	0.0011307
1376.41	0.0991774	0.0007532
1377.38	0.096364	0.0007762
1378.34	0.100338	0.0005466
1379.31	0.104954	0.0008979
1380.27	0.104419	0.0008647
1381.24	0.0904542	0.0008013
1382.2	0.089157	0.0006976
1383.17	0.088351	0.0006782
1384.13	0.0858949	0.0006278
1385.09	0.094588	0.0005255
1386.06	0.0984343	0.0005629
1387.02	0.110782	0.0011391
1387.99	0.119553	0.0015767
1388.95	0.0980515	0.0013869
1389.92	0.0901058	0.000894
1390.88	0.0861942	0.0008195
1391.85	0.0889894	0.0006822
1392.81	0.0909459	0.0002705
1393.77	0.101834	0.0010298
1394.74	0.127731	0.0008679
1395.7	0.105672	0.0014612
1396.67	0.0957786	0.0007117
1397.63	0.096074	0.0007317
1398.6	0.104549	0.0011995
1399.56	0.112787	0.0014286


MS15AV1
Absorbance
1.7
1.5
1.3
1.1
0.9
0.7
0.5
0.3
0.1
-0.1
700
800
900
1000
1100
1200
1300
1400
Wavenumber (cm-1)


MS15AD1
Absorbance
0.009
0.008
0.007
0.006
0.005
0.004
0.003
0.002
0.001
0.000
700
800
900
1000
1100
1200
1300
1400
Wavenumber (cm-1)

Methanol 15.00 Mole % 26.8 Torr MS15AV1
MS15AD1

WN (cm-1)	AVE (A.U.)	AD (A.U.)	WN (cm-1)	AVE (A.U.)	AD (A.U.)
750.455	-0.0058277	0.0001338	793.859	-0.0058646	0.00007
751.42	-0.0071844	0.0001461	794.824	-0.0061446	0.0001287
752.384	-0.0070131	0.0001573	795.788	-0.0054718	0.0000502
753.349	-0.0069203	0.0001242	796.753	-0.0059431	0.0000618
754.313	-0.0074251	0.0001562	797.717	-0.0061184	0.0001575
755.278	-0.0074116	0.0000902	798.682	-0.0061106	0.0001076
756.242	-0.007168	0.0000438	799.646	-0.0061829	0.0001121
757.207	-0.0072589	0.0000935	800.611	-0.0060594	0.0001429
758.171	-0.0056614	0.000073	801.576	-0.0060524	0.0000335
759.136	-0.0059866	0.0000595	802.54	-0.0060489	0.0000714
760.1	-0.0062499	0.0000566	803.505	-0.0059866	0.0000606
761.065	-0.0062225	0.0001666	804.469	-0.0056381	0.0001145
762.029	-0.0061126	0.0000787	805.434	-0.0048378	0.0001901
762.994	-0.0072941	0.0000553	806.398	-0.0042587	0.0001583
763.959	-0.0074037	0.0000369	807.363	-0.0050704	0.0001176
764.923	-0.0068472	0.0001056	808.327	-0.005735	0.0001168
765.888	-0.0079208	0.0001044	809.292	-0.0062313	0.0000848
766.852	-0.0068904	0.0000615	810.256	-0.0068519	0.0000352
767.817	-0.0072118	0.0000844	811.221	-0.0068838	0.0000486
768.781	-0.0077192	0.0000765	812.185	-0.0062541	0.0001577
769.746	-0.0072528	0.0001063	813.15	-0.0065816	0.0000727
770.71	-0.0068022	0.0000689	814.115	-0.0059159	0.0000857
771.675	-0.0070676	0.0000367	815.079	-0.0055377	0.0000644
772.639	-0.0068219	0.000031	816.044	-0.0049778	0.000068
773.604	-0.0074597	0.0000331	817.008	-0.0045903	0.0000366
774.568	-0.007996	0.0000334	817.973	-0.0047418	0.0000733
775.533	-0.0079779	0.0000569	818.937	-0.0039426	0.0000756
776.498	-0.0067371	0.0000387	819.902	-0.0029023	0.0000548
777.462	-0.0036557	0.000041	820.866	-0.0029845	0.0000635
778.427	-0.0038994	0.0000674	821.831	-0.0050249	0.0000509
779.391	-0.0015435	0.0000412	822.795	-0.0059527	0.0000221
780.356	-0.0021744	8.73E-06	823.76	-0.0058485	0.000039
781.32	-0.0054635	0.0000748	824.724	-0.0047482	0.000078
782.285	-0.0074126	0.0000142	825.689	-0.0054944	0.000048
783.249	-0.0078306	0.0000267	826.654	-0.0048668	0.000056
784.214	-0.0075809	0.000084	827.618	-0.0040128	0.0000808
785.178	-0.0078619	0.0000541	828.583	-0.0043007	0.0000427
786.143	-0.0070973	0.0000764	829.547	-0.0050714	0.0000523
787.107	-0.0078873	0.0000472	830.512	-0.005019	0.0000616
788.072	-0.0075401	0.0000351	831.476	-0.0052526	0.0000599
789.037	-0.0078195	0.0000133	832.441	-0.0058166	0.0000402
790.001	-0.0067712	0.0000275	833.405	-0.006326	0.0000589
790.966	-0.0067718	0.000052	834.37	-0.0062125	0.0000179
791.93	-0.0066604	0.0000337	835.334	-0.0061562	0.000077
792.895	-0.0069605	0.0000441	836.299	-0.0055681	0.0000897

Methanol 15.00 Mole % 26.8 Torr MS15AV1
MS15AD1

WN (cm-1)	AVE (A.U.)	AD (A.U.)
837.263	-0.0048468	0.0000412
838.228	-0.0047504	0.0000427
839.193	-0.0046356	0.0000155
840.157	-0.0039944	0.0000465
841.122	-0.0044047	0.0000682
842.086	-0.0048522	0.0000545
843.051	-0.0053092	0.000046
844.015	-0.0056037	0.0000469
844.98	-0.0049925	0.0000207
845.944	-0.0049012	0.0000536
846.909	-0.0051182	8.20E-06
847.873	-0.0050176	0.0000319
848.838	-0.0043897	0.0000432
849.802	-0.0044569	0.0000113
850.767	-0.0041886	0.0000569
851.732	-0.0041426	0.0000121
852.696	-0.004237	0.0000399
853.661	-0.004685	0.0000402
854.625	-0.0049912	0.0000645
855.59	-0.0051922	0.000025
856.554	-0.0055311	0.000046
857.519	-0.0052784	0.0000426
858.483	-0.0046272	0.0000696
859.448	-0.0026761	0.0000489
860.412	-0.0026358	0.0000572
861.377	-0.0041585	0.0000741
862.341	-0.0038575	0.0000464
863.306	-0.0042248	0.0000643
864.271	-0.0041304	0.0000455
865.235	-0.0042265	0.0000494
866.2	-0.0040302	0.0001319
867.164	-0.0042925	0.0001146
868.129	-0.0046561	0.0001531
869.093	-0.0045678	0.000114
870.058	-0.0043176	0.0000667
871.022	-0.004045	0.0000334
871.987	-0.0025314	0.0000769
872.951	-0.0014847	0.0000803
873.916	-0.0024244	0.0000797
874.88	-0.0024511	0.000028
875.845	-0.0029948	0.0000564
876.809	-0.0034112	0.0000934
877.774	-0.0040058	0.0000541
878.739	-0.0038982	0.0000632
879.703	-0.0042328	0.0000708

WN (cm-1)	AVE (A.U.)	AD (A.U.)
880.668	-0.0041688	0.000063
881.632	-0.0043731	0.0001246
882.597	-0.0041094	0.0000734
883.561	-0.0036191	0.0000584
884.526	-0.0037009	0.0000676
885.49	-0.0028142	0.000085
886.455	-0.0030998	0.0000739
887.419	-0.0030221	0.0000317
888.384	-0.0031721	0.0000645
889.349	-0.0035972	0.0000519
890.313	-0.0040077	0.000113
891.278	-0.0042823	0.0000421
892.242	-0.0038946	0.0000548
893.207	-0.0042652	0.0000283
894.171	-0.0035184	0.0000575
895.136	-0.0032263	0.0000633
896.1	-0.0025838	0.0000651
897.065	-0.0015618	0.0000228
898.029	-0.001467	0.000069
898.994	-0.0001259	0.0000457
899.958	-0.000315	0.0000356
900.923	-0.0030533	0.0000554
901.887	-0.0032138	0.000132
902.852	-0.0036492	0.0000412
903.817	-0.0037521	0.0000787
904.781	-0.0035756	0.0000619
905.746	-0.0029183	0.0000951
906.71	-0.002262	0.0000639
907.675	-0.0017919	0.0000822
908.639	-0.0012181	0.0000645
909.604	-0.0012952	0.0000543
910.568	-0.0015165	0.0000737
911.533	-0.0014363	0.0000837
912.497	-0.0014707	0.000071
913.462	-0.0017894	0.0000857
914.427	-0.0022495	0.0000627
915.391	-0.0018472	0.000096
916.356	-0.0016604	0.0000889
917.32	-0.0020604	0.0001396
918.285	-0.0013201	0.0000847
919.249	-0.0007545	0.0000911
920.214	-0.0004459	0.0000669
921.178	-0.0003133	0.0001252
922.143	-0.0004965	0.0000826
923.107	-0.0006207	0.0001496

Methanol 15.00 Mole % 26.8 Torr MS15AV1 MS15AD1

WN (cm-1)	AVE (A.U.)	AD (A.U.)	WN (cm-1)	AVE (A.U.)	AD (A.U.)
924.072	-0.0002959	0.0000979	967.476	0.0418529	0.0001712
925.037	-0.0000811	0.0000947	968.441	0.0424159	0.0001758
926.001	-0.0005992	0.0001228	969.405	0.0544698	0.0001794
926.965	-0.0008072	0.0000762	970.37	0.0442455	0.0001427
927.93	-0.0008079	0.0000961	971.334	0.063612	0.0002275
928.895	-0.0005504	0.0001046	972.299	0.0556868	0.0001528
929.859	-0.0002535	0.0000946	973.263	0.0712708	0.0001786
930.824	0.0005507	0.0000591	974.228	0.0740132	0.0002229
931.788	0.0011204	0.0000909	975.192	0.0773591	0.0002206
932.753	0.0022756	0.0000809	976.157	0.0980122	0.0003402
933.717	0.0015928	0.0000903	977.122	0.0851958	0.0002326
934.682	0.0015805	0.0000884	978.086	0.125526	0.0004348
935.646	0.0006637	0.0000696	979.051	0.0968031	0.0002688
936.611	0.0005948	0.0000488	980.015	0.153597	0.0004186
937.575	0.001178	0.0000397	980.98	0.115036	0.0003748
938.54	0.0013991	0.000075	981.944	0.170642	0.0004837
939.505	0.0023742	0.0000491	982.909	0.142261	0.000483
940.469	0.0021531	0.0000737	983.873	0.186379	0.0004447
941.434	0.0025101	0.000063	984.838	0.177387	0.000586
942.398	0.0017098	0.0000318	985.802	0.200823	0.0005069
943.363	0.0023151	0.0000386	986.767	0.222279	0.0007307
944.327	0.003548	0.0000278	987.731	0.219947	0.0005473
945.292	0.0024007	0.0000393	988.696	0.269401	0.0007903
946.256	0.0036408	0.0000509	989.661	0.24175	0.0006041
947.221	0.0038993	0.0001062	990.625	0.317193	0.0010038
948.185	0.0033489	0.0000513	991.59	0.266807	0.0007398
949.15	0.0033845	0.0000554	992.554	0.363454	0.001143
950.115	0.0034393	0.0000404	993.519	0.296662	0.0009561
951.079	0.0070767	0.000067	994.483	0.408043	0.0012482
952.044	0.0048075	0.0001031	995.448	0.330777	0.0010799
953.008	0.0075903	0.0000721	996.412	0.445869	0.0013103
953.973	0.0088436	0.0000657	997.377	0.369516	0.0012087
954.937	0.0091079	0.0000463	998.341	0.485608	0.0013917
955.902	0.0124982	0.0000918	999.306	0.409969	0.0014554
956.866	0.0097931	0.0000587	1000.27	0.527544	0.0015241
957.831	0.0150812	0.0000844	1001.23	0.448375	0.0016054
958.795	0.014639	0.0000831	1002.2	0.571267	0.0017063
959.76	0.0177918	0.0001095	1003.16	0.481878	0.0016602
960.724	0.0206513	0.0001158	1004.12	0.619899	0.0016883
961.689	0.0183401	0.0001082	1005.09	0.503635	0.0017733
962.653	0.0253381	0.0001031	1006.05	0.658199	0.0019763
963.618	0.0212121	0.000154	1007.02	0.52702	0.0019275
964.583	0.029443	0.0001224	1007.98	0.691758	0.0022223
965.547	0.0285034	0.0001213	1008.95	0.542226	0.0020918
966.512	0.0330012	0.0001104	1009.91	0.71538	0.0025558

Methanol 15.00 Mole % 26.8 Torr MS15AV1
MS15AD1

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1010.88	0.555005	0.0020686
1011.84	0.732291	0.0028016
1012.8	0.56622	0.0023244
1013.77	0.722175	0.0028501
1014.73	0.579383	0.0023709
1015.7	0.696008	0.0031718
1016.66	0.594259	0.002688
1017.63	0.652083	0.0030977
1018.59	0.597033	0.0026614
1019.56	0.553	0.0027638
1020.52	0.583811	0.0028634
1021.49	0.472931	0.0025581
1022.45	0.524862	0.0027379
1023.41	0.392526	0.0019759
1024.38	0.450672	0.0020001
1025.34	0.360497	0.0014759
1026.31	0.351388	0.0013813
1027.27	0.359302	0.0013028
1028.24	0.315485	0.0010316
1029.2	0.366389	0.0011565
1030.17	0.436655	0.0014897
1031.13	0.669999	0.002366
1032.1	1.06174	0.0042144
1033.06	1.58879	0.0069828
1034.02	1.1247	0.008608
1034.99	0.404145	0.00284
1035.95	0.294586	0.001578
1036.92	0.26842	0.0015868
1037.88	0.248449	0.001147
1038.85	0.278555	0.0012495
1039.81	0.286067	0.0010847
1040.78	0.33782	0.0011669
1041.74	0.410123	0.0010712
1042.7	0.418968	0.0009545
1043.67	0.510163	0.0009773
1044.63	0.543706	0.0008249
1045.6	0.579461	0.0010567
1046.56	0.686229	0.0011119
1047.53	0.69952	0.0014096
1048.49	0.731538	0.0015223
1049.46	0.824373	0.0018028
1050.42	0.82571	0.0019526
1051.39	0.850733	0.0025097
1052.35	0.924627	0.0027444
1053.31	0.910655	0.0027686

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1054.28	0.903234	0.0029513
1055.24	0.957934	0.0029217
1056.21	0.949841	0.0034434
1057.17	0.916042	0.0033003
1058.14	0.920803	0.0032133
1059.1	0.916875	0.0038909
1060.07	0.887811	0.0036788
1061.03	0.845005	0.0038297
1061.99	0.814933	0.00345
1062.96	0.778213	0.0034895
1063.92	0.731674	0.0035591
1064.89	0.681646	0.0033717
1065.85	0.628327	0.0033254
1066.82	0.57788	0.0031665
1067.78	0.535132	0.0029619
1068.75	0.491563	0.0028743
1069.71	0.436651	0.0027436
1070.67	0.388747	0.0024934
1071.64	0.350176	0.002189
1072.6	0.31149	0.0019787
1073.57	0.275706	0.0019204
1074.53	0.239941	0.0017159
1075.5	0.199971	0.0015433
1076.46	0.170607	0.0012754
1077.43	0.144182	0.0011468
1078.39	0.122042	0.0009625
1079.36	0.104308	0.0009483
1080.32	0.0905336	0.0007958
1081.28	0.075104	0.0007144
1082.25	0.0629193	0.0006524
1083.21	0.0542303	0.0005451
1084.18	0.0459319	0.000436
1085.14	0.0411069	0.0004366
1086.11	0.0357808	0.0004186
1087.07	0.031756	0.0003947
1088.04	0.027829	0.0002956
1089	0.0280382	0.0002836
1089.96	0.0259048	0.0002597
1090.93	0.0246338	0.0002484
1091.89	0.0266041	0.0002223
1092.86	0.0274237	0.0002443
1093.82	0.030547	0.0002167
1094.79	0.0241445	0.0002275
1095.75	0.0216037	0.0001623
1096.72	0.022477	0.0001539

Methanol 15.00 Mole % 26.8 Torr MS15AV1 MS15AD1

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1097.68	0.0242454	0.0001727
1098.64	0.0202493	0.0001398
1099.61	0.0194588	0.0001059
1100.57	0.0200978	0.0001527
1101.54	0.0186612	0.0000589
1102.5	0.0188712	0.000091
1103.47	0.0181223	0.0000869
1104.43	0.0184246	0.000124
1105.4	0.0198068	0.0001179
1106.36	0.0208346	0.000087
1107.32	0.0184439	0.0000763
1108.29	0.0187047	0.00006
1109.25	0.0173541	0.0000924
1110.22	0.0171656	0.0000619
1111.18	0.0184795	0.0000694
1112.15	0.0193672	0.0000954
1113.11	0.0180611	0.0000883
1114.08	0.0232759	0.0000956
1115.04	0.0216602	0.0001336
1116.01	0.01595	0.0000863
1116.97	0.0153301	0.0000612
1117.93	0.0140271	0.00011
1118.9	0.013739	0.0000988
1119.86	0.014369	0.0001112
1120.83	0.0146137	0.0001249
1121.79	0.0140657	0.0000625
1122.76	0.0145247	0.0001067
1123.72	0.0141642	0.0001155
1124.69	0.0142331	0.0000835
1125.65	0.0122782	0.0000892
1126.61	0.0122812	0.000095
1127.58	0.0112199	0.0001034
1128.54	0.0110388	0.0001534
1129.51	0.0124434	0.0001245
1130.47	0.0100914	0.0000996
1131.44	0.0102603	0.0001325
1132.4	0.0101386	0.000121
1133.37	0.0092977	0.0001154
1134.33	0.0114914	0.0001258
1135.29	0.0152336	0.000094
1136.26	0.0142609	0.0001393
1137.22	0.0111423	0.0001631
1138.19	0.0098844	0.0001187
1139.15	0.0084687	0.0001431
1140.12	0.0097968	0.0001359

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1141.08	0.0127142	0.0001551
1142.05	0.0128498	0.0002008
1143.01	0.0086134	0.000178
1143.98	0.0098971	0.0001602
1144.94	0.0097079	0.0001659
1145.9	0.0079171	0.000148
1146.87	0.0075771	0.000123
1147.83	0.0090305	0.0001655
1148.8	0.0080676	0.0001815
1149.76	0.0077214	0.0001545
1150.73	0.0059689	0.0001003
1151.69	0.0066853	0.0001442
1152.66	0.0077816	0.0001787
1153.62	0.0065395	0.0001593
1154.58	0.0058683	0.0001262
1155.55	0.0056541	0.0001106
1156.51	0.0062899	0.0001117
1157.48	0.0081717	0.0000877
1158.44	0.0063699	0.0001131
1159.41	0.0073579	0.0001134
1160.37	0.0080215	0.0000907
1161.34	0.0076656	0.0000977
1162.3	0.0071666	0.0000754
1163.26	0.0078161	0.0000737
1164.23	0.009345	0.0001176
1165.19	0.0087934	0.0000806
1166.16	0.0067637	0.000082
1167.12	0.0050867	0.0000659
1168.09	0.0058888	0.0000877
1169.05	0.0053391	0.0000829
1170.02	0.0061406	0.0000842
1170.98	0.0056186	0.0000867
1171.94	0.005766	0.0000812
1172.91	0.0063894	0.0001151
1173.87	0.0070924	0.0000793
1174.84	0.0085726	0.0001104
1175.8	0.007539	0.0000845
1176.77	0.0083532	0.0000794
1177.73	0.0076497	0.0000768
1178.7	0.008169	0.0001138
1179.66	0.0087985	0.0001062
1180.63	0.0091965	0.0001065
1181.59	0.0096915	0.0000575
1182.55	0.0112941	0.0001195
1183.52	0.0115911	0.0001151

Methanol 15.00 Mole % 26.8 Torr MS15AV1
MS15AD1

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1184.48	0.0119595	0.0001121
1185.45	0.0122264	0.000077
1186.41	0.0124202	0.0001108
1187.38	0.0144898	0.000105
1188.34	0.0136973	0.0000985
1189.31	0.0131787	0.0001513
1190.27	0.0139438	0.0001299
1191.23	0.013616	0.0001203
1192.2	0.0156038	0.0001619
1193.16	0.0148587	0.0001247
1194.13	0.0161245	0.0001093
1195.09	0.0183439	0.0001543
1196.06	0.0179313	0.0001498
1197.02	0.020065	0.0001348
1197.99	0.0197943	0.0001535
1198.95	0.0202473	0.000192
1199.91	0.0197263	0.0001882
1200.88	0.0217574	0.0001922
1201.84	0.0239752	0.0001914
1202.81	0.0251033	0.0002189
1203.77	0.0218341	0.0001509
1204.74	0.0234969	0.0001975
1205.7	0.0233102	0.0002033
1206.67	0.0240931	0.0002256
1207.63	0.0268237	0.0001802
1208.6	0.027179	0.0001995
1209.56	0.026309	0.0002157
1210.52	0.0241272	0.0001983
1211.49	0.0293376	0.0002081
1212.45	0.0312807	0.000263
1213.42	0.0313511	0.0002105
1214.38	0.0346395	0.0002395
1215.35	0.0272175	0.0002438
1216.31	0.0263457	0.0002427
1217.28	0.0241993	0.0002063
1218.24	0.0255591	0.0002382
1219.2	0.0254423	0.000191
1220.17	0.0259477	0.0002171
1221.13	0.0267097	0.000197
1222.1	0.0255662	0.0001988
1223.06	0.0281971	0.0002165
1224.03	0.0281325	0.0001901
1224.99	0.033928	0.0002004
1225.96	0.0321576	0.0001626
1226.92	0.0277555	0.0001934

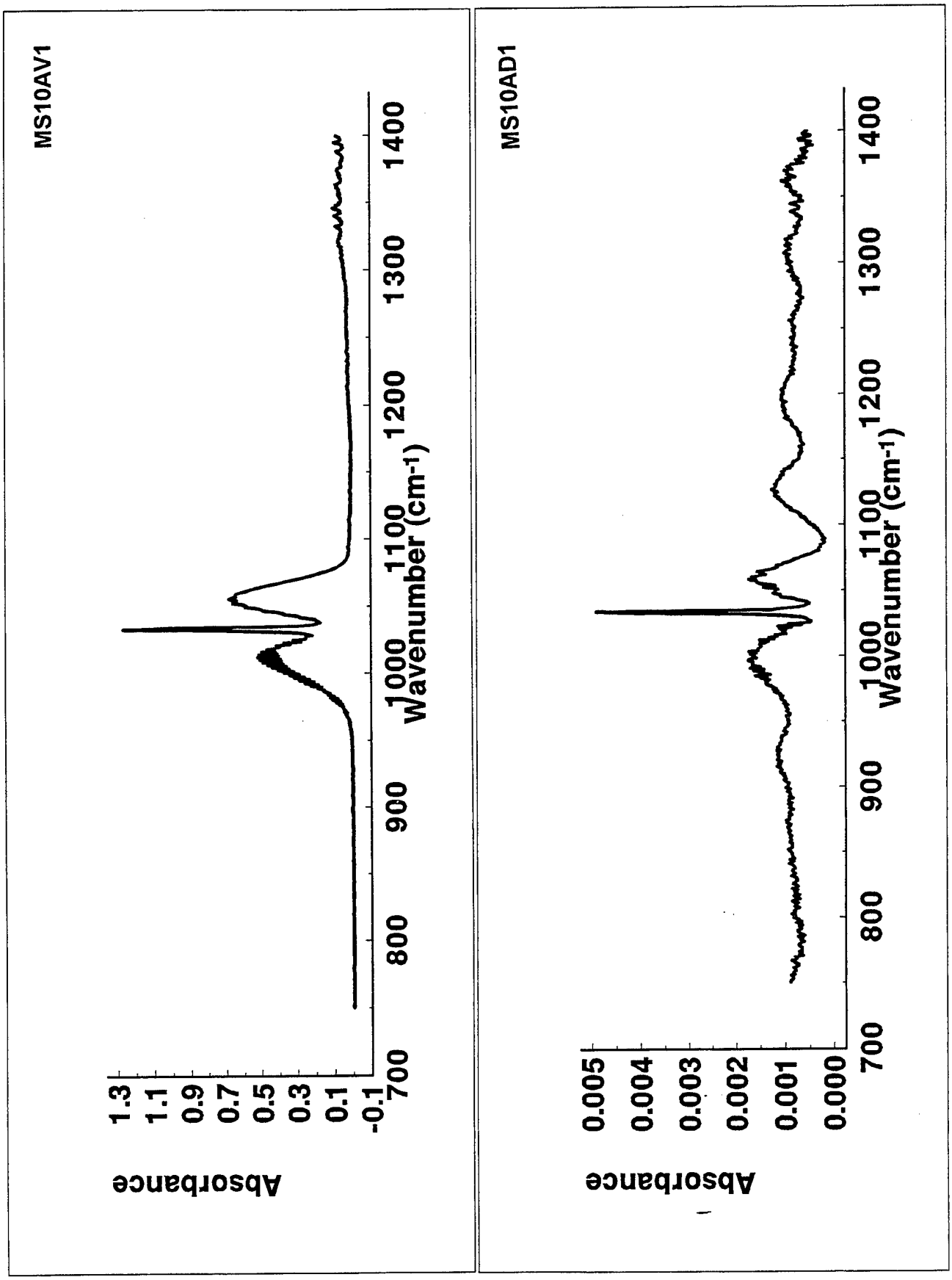
WN (cm-1)	AVE (A.U.)	AD (A.U.)
1227.88	0.0304581	0.0002003
1228.85	0.0303169	0.0001933
1229.81	0.0224803	0.0001771
1230.78	0.0230888	0.0001733
1231.74	0.0245232	0.000182
1232.71	0.0330869	0.0002033
1233.67	0.03218	0.0002147
1234.64	0.0246491	0.0001074
1235.6	0.02433	0.0001241
1236.57	0.0256927	0.0001626
1237.53	0.0272904	0.0001628
1238.49	0.0339682	0.0002001
1239.46	0.0379333	0.0001409
1240.42	0.0357798	0.0001555
1241.39	0.0307296	0.0001286
1242.35	0.0300435	0.000179
1243.32	0.0315727	0.0001841
1244.28	0.0300919	0.0001192
1245.25	0.0290044	0.0001863
1246.21	0.0295022	0.0002287
1247.17	0.0301963	0.0001812
1248.14	0.0330432	0.0001988
1249.1	0.0368487	0.0001579
1250.07	0.0357787	0.0001768
1251.03	0.0342114	0.0002039
1252	0.0339115	0.0001562
1252.96	0.0349235	0.0002457
1253.93	0.0360009	0.0001825
1254.89	0.036824	0.0001715
1255.85	0.0374743	0.0001694
1256.82	0.0397839	0.0001887
1257.78	0.0391834	0.0002317
1258.75	0.0380959	0.0002139
1259.71	0.0377778	0.0002234
1260.68	0.0396585	0.0002437
1261.64	0.0379557	0.0002734
1262.61	0.0382753	0.0002781
1263.57	0.0375524	0.0002987
1264.53	0.0373258	0.0003092
1265.5	0.0379652	0.0003451
1266.46	0.0366525	0.0003166
1267.43	0.0394242	0.0003217
1268.39	0.0384815	0.0003309
1269.36	0.040744	0.0003246
1270.32	0.0384823	0.0003487

Methanol 15.00 Mole % 26.8 Torr MS15AV1
MS15AD1

WN (cm-1)	AVE (A.U.)	AD (A.U.)	WN (cm-1)	AVE (A.U.)	AD (A.U.)
1271.29	0.0375191	0.0003548	1314.69	0.0740716	0.0003951
1272.25	0.0388717	0.0003327	1315.65	0.0794875	0.0004614
1273.22	0.0366797	0.0003267	1316.62	0.0777478	0.0004346
1274.18	0.0359824	0.0003075	1317.58	0.0947036	0.0005245
1275.14	0.038165	0.0002974	1318.55	0.0944647	0.0004863
1276.11	0.0359329	0.0002715	1319.51	0.0891412	0.0004942
1277.07	0.037383	0.0002911	1320.47	0.102258	0.0006033
1278.04	0.0360324	0.000277	1321.44	0.0994573	0.0005854
1279	0.0375842	0.0003141	1322.4	0.0966878	0.0005932
1279.97	0.0392497	0.0002178	1323.37	0.0887164	0.0005917
1280.93	0.0373927	0.0002375	1324.33	0.0895202	0.0005852
1281.9	0.0402524	0.0002856	1325.3	0.0843762	0.0005319
1282.86	0.0388287	0.0003019	1326.26	0.0857117	0.0005397
1283.82	0.0426343	0.0002452	1327.23	0.0809838	0.0005096
1284.79	0.0411574	0.0002776	1328.19	0.0793301	0.0005185
1285.75	0.0402325	0.0002687	1329.15	0.0843828	0.0004483
1286.72	0.0416258	0.0002892	1330.12	0.0877478	0.0005546
1287.68	0.0424618	0.0002325	1331.08	0.105067	0.0005877
1288.65	0.0439274	0.0001923	1332.05	0.119495	0.0006364
1289.61	0.0450697	0.0002072	1333.01	0.0818441	0.0005402
1290.58	0.0459233	0.0002226	1333.98	0.0729375	0.0003694
1291.54	0.0461491	0.0002919	1334.94	0.0746082	0.0004225
1292.5	0.0521963	0.0002935	1335.91	0.0761665	0.000442
1293.47	0.0578102	0.0002943	1336.87	0.085904	0.0004331
1294.43	0.0564862	0.0002677	1337.84	0.0869223	0.0004815
1295.4	0.0537827	0.0002764	1338.8	0.103902	0.0005168
1296.36	0.0567485	0.0002605	1339.76	0.119139	0.0005142
1297.33	0.05572	0.0003108	1340.73	0.104315	0.000592
1298.29	0.0560111	0.0002673	1341.69	0.0841903	0.0004326
1299.26	0.0586263	0.0002791	1342.66	0.087526	0.0005547
1300.22	0.0584015	0.0002674	1343.62	0.090803	0.0006075
1301.18	0.061735	0.0003489	1344.59	0.116142	0.0005857
1302.15	0.0642779	0.0003143	1345.55	0.138945	0.0007454
1303.11	0.065385	0.0003744	1346.52	0.114191	0.0006216
1304.08	0.0658687	0.000332	1347.48	0.116783	0.0006585
1305.04	0.0640563	0.000331	1348.44	0.0919063	0.0006078
1306.01	0.0720177	0.0003106	1349.41	0.0937419	0.0005179
1306.97	0.0672344	0.0002911	1350.37	0.0823413	0.0004733
1307.94	0.0757218	0.0003725	1351.34	0.08089	0.0004722
1308.9	0.0778194	0.0003862	1352.3	0.0844484	0.0004643
1309.87	0.0733428	0.000365	1353.27	0.0862694	0.0003742
1310.83	0.0701765	0.0003972	1354.23	0.0942367	0.0003227
1311.79	0.0740557	0.0004185	1355.2	0.0952202	0.0002913
1312.76	0.0771418	0.0003889	1356.16	0.0878156	0.0002956
1313.72	0.0727129	0.0003942	1357.12	0.0992076	0.0003722

Methanol 15.00 Mole % 26.8 Torr MS15AV1
MS15AD1

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1358.09	0.0969995	0.0003455
1359.05	0.0939214	0.0004308
1360.02	0.103146	0.0004417
1360.98	0.10908	0.0003956
1361.95	0.10162	0.0004525
1362.91	0.110174	0.0003192
1363.88	0.0917195	0.0005853
1364.84	0.0853532	0.0003749
1365.8	0.0817571	0.0005043
1366.77	0.0796264	0.0003867
1367.73	0.0831156	0.0004497
1368.7	0.0908585	0.0004976
1369.66	0.0864924	0.0004492
1370.63	0.0985635	0.0005742
1371.59	0.0924487	0.0006042
1372.56	0.0974687	0.0006631
1373.52	0.099994	0.00069
1374.49	0.0953275	0.0007041
1375.45	0.0906506	0.0007933
1376.41	0.076587	0.0007536
1377.38	0.0751452	0.0005706
1378.34	0.0792262	0.0006199
1379.31	0.0816867	0.0006162
1380.27	0.0804236	0.0007517
1381.24	0.0695676	0.0005023
1382.2	0.0690066	0.0005382
1383.17	0.0690186	0.0005821
1384.13	0.0678294	0.0004801
1385.09	0.0750903	0.0004958
1386.06	0.0797449	0.0006037
1387.02	0.0924331	0.0004507
1387.99	0.0971634	0.0009376
1388.95	0.0760554	0.000579
1389.92	0.0700942	0.0005116
1390.88	0.0678036	0.0004792
1391.85	0.0706989	0.0004256
1392.81	0.0730893	0.0004958
1393.77	0.0854506	0.0005028
1394.74	0.110243	0.0006589
1395.7	0.0881456	0.0007805
1396.67	0.0773586	0.0006047
1397.63	0.0791469	0.000609
1398.6	0.0870896	0.0006329
1399.56	0.0942394	0.000805


MS10AV1
Absorbance
1.3
1.1
0.9
0.7
0.5
0.3
0.1
-0.1
700
800
900
1000
1100
1200
1300
1400
Wavenumber (cm-1)
MS10AD1
Absorbance
0.005
0.004
0.003
0.002
0.001
0.000
700
800
900
1000
1100
1200
1300
1400
Wavenumber (cm-1)

Methanol 10.00 Mole % 19.5 Torr MS10AV1
MS10AD1

WN (cm-1)	AVE (A.U.)	AD (A.U.)
750.455	-0.0037804	0.0008872
751.42	-0.0048375	0.0008859
752.384	-0.0044253	0.0008428
753.349	-0.0048839	0.0008325
754.313	-0.005082	0.0008467
755.278	-0.0050511	0.0008779
756.242	-0.0044357	0.0008091
757.207	-0.0051901	0.0008419
758.171	-0.0036288	0.0008225
759.136	-0.003687	0.0007836
760.1	-0.0042391	0.0007977
761.065	-0.0040134	0.0008254
762.029	-0.0039394	0.0007687
762.994	-0.0049084	0.0007355
763.959	-0.0049711	0.0007368
764.923	-0.0045523	0.0007946
765.888	-0.0055339	0.0008024
766.852	-0.0045283	0.0008587
767.817	-0.0049039	0.0007781
768.781	-0.0051706	0.0007644
769.746	-0.0050357	0.0007927
770.71	-0.0042085	0.0006454
771.675	-0.004479	0.0007092
772.639	-0.004583	0.0006647
773.604	-0.0050816	0.000708
774.568	-0.0052843	0.0006603
775.533	-0.0054645	0.0006603
776.498	-0.0045891	0.0006617
777.462	-0.0025707	0.0006869
778.427	-0.002878	0.0007177
779.391	-0.0011921	0.0007111
780.356	-0.0011872	0.000695
781.32	-0.0033148	0.0006266
782.285	-0.004938	0.0006797
783.249	-0.0051354	0.0006548
784.214	-0.0051463	0.0006489
785.178	-0.0052205	0.0007287
786.143	-0.005061	0.0006204
787.107	-0.0052087	0.0006785
788.072	-0.0051763	0.0007138
789.037	-0.005486	0.0007369
790.001	-0.0046053	0.0007405
790.966	-0.0048511	0.0006831
791.93	-0.0046508	0.0006829
792.895	-0.004793	0.0007149

WN (cm-1)	AVE (A.U.)	AD (A.U.)
793.859	-0.0037869	0.0006575
794.824	-0.0038665	0.000678
795.788	-0.003317	0.0007544
796.753	-0.0038905	0.0006804
797.717	-0.0043261	0.0007409
798.682	-0.0040486	0.0007328
799.646	-0.0041236	0.0008208
800.611	-0.0036229	0.000791
801.576	-0.0036884	0.0007951
802.54	-0.0037604	0.0008563
803.505	-0.0038132	0.0007986
804.469	-0.0035194	0.000817
805.434	-0.0028128	0.000792
806.398	-0.0021396	0.0007889
807.363	-0.0026833	0.0007222
808.327	-0.0034506	0.0008047
809.292	-0.0035867	0.0007616
810.256	-0.0046132	0.0007965
811.221	-0.0046267	0.0007357
812.185	-0.004057	0.0008463
813.15	-0.0041461	0.0008245
814.115	-0.0036984	0.000705
815.079	-0.0034293	0.0007839
816.044	-0.002955	0.0008224
817.008	-0.0024123	0.0007135
817.973	-0.00266	0.0007887
818.937	-0.0022615	0.0008069
819.902	-0.0014153	0.0007572
820.866	-0.0016467	0.0007539
821.831	-0.0031068	0.0008428
822.795	-0.0035955	0.000766
823.76	-0.003631	0.0007428
824.724	-0.0027393	0.0007795
825.689	-0.0029674	0.0008293
826.654	-0.0025028	0.0007931
827.618	-0.0017277	0.0007583
828.583	-0.0018863	0.0007558
829.547	-0.0025764	0.0007661
830.512	-0.0025923	0.0007777
831.476	-0.0027299	0.0008646
832.441	-0.0033023	0.000834
833.405	-0.0037204	0.0007923
834.37	-0.0035801	0.0008265
835.334	-0.0034837	0.0008466
836.299	-0.0029213	0.0008387

Methanol 10.00 Mole % 19.5 Torr MS10AV1 MS10AD1

WN (cm-1)	AVE (A.U.)	AD (A.U.)
837.263	-0.0025644	0.0007972
838.228	-0.0025213	0.0008087
839.193	-0.0023207	0.0008329
840.157	-0.001872	0.000861
841.122	-0.0022337	0.0009075
842.086	-0.0027613	0.0008492
843.051	-0.0031821	0.0008274
844.015	-0.0033503	0.0008879
844.98	-0.0027486	0.0008169
845.944	-0.0027801	0.0008358
846.909	-0.0028546	0.0008476
847.873	-0.002922	0.00086
848.838	-0.0023391	0.0008648
849.802	-0.0023352	0.0008759
850.767	-0.0019994	0.0009087
851.732	-0.0021434	0.0009298
852.696	-0.0023948	0.0008829
853.661	-0.0026593	0.0008517
854.625	-0.0033317	0.0008526
855.59	-0.0032196	0.0008587
856.554	-0.0035562	0.0008579
857.519	-0.0034019	0.000893
858.483	-0.0029631	0.0008869
859.448	-0.0013716	0.0008683
860.412	-0.0012426	0.0008891
861.377	-0.0021659	0.0008857
862.341	-0.001823	0.0008699
863.306	-0.0022393	0.0009033
864.271	-0.0019411	0.0009159
865.235	-0.0020643	0.0009266
866.2	-0.0020517	0.0008924
867.164	-0.0024701	0.0009083
868.129	-0.0029248	0.0009312
869.093	-0.0029096	0.0009406
870.058	-0.0026511	0.0008977
871.022	-0.0023412	0.0008902
871.987	-0.0012262	0.000954
872.951	-0.000261	0.0009537
873.916	-0.0006601	0.0009719
874.88	-0.000501	0.0009095
875.845	-0.0010875	0.0009109
876.809	-0.0014586	0.0009085
877.774	-0.0019613	0.0009127
878.739	-0.0017854	0.0008686
879.703	-0.002311	0.0009068
880.668	-0.0020916	0.0009034
881.632	-0.002349	0.0008853
882.597	-0.0021128	0.000841
883.561	-0.0017825	0.0009021
884.526	-0.0018052	0.0008913
885.49	-0.000973	0.0008815
886.455	-0.0009258	0.0009213
887.419	-0.0009557	0.0008618
888.384	-0.001213	0.0009132
889.349	-0.0014716	0.0009245
890.313	-0.0019014	0.0009131
891.278	-0.0022322	0.0008451
892.242	-0.0019065	0.0009096
893.207	-0.0022172	0.0008865
894.171	-0.0015646	0.0008956
895.136	-0.0013819	0.0009018
896.1	-0.0006801	0.0009443
897.065	0.0003	0.0009115
898.029	0.0002484	0.0008929
898.994	0.0013103	0.0009726
899.958	0.0010976	0.0009539
900.923	-0.0007986	0.0009355
901.887	-0.0011255	0.0009295
902.852	-0.0015494	0.0009277
903.817	-0.0018643	0.0009712
904.781	-0.0017731	0.0010088
905.746	-0.0014703	0.0009734
906.71	-0.0007459	0.000998
907.675	-0.000475	0.0009948
908.639	0.0002778	0.0010253
909.604	0.0002226	0.0010147
910.568	0.0000455	0.0010797
911.533	0.0000385	0.0010817
912.497	-0.0000436	0.0010567
913.462	-0.0004398	0.0010847
914.427	-0.0011339	0.0010937
915.391	-0.0010384	0.0011471
916.356	-0.000683	0.0010913
917.32	-0.0009785	0.0011264
918.285	-0.0003002	0.0010804
919.249	0.0000673	0.0010736
920.214	0.0005514	0.0011426
921.178	0.0004845	0.0011267
922.143	0.0004211	0.0011295
923.107	0.0000612	0.0011147

Methanol 10.00 Mole % 19.5 Torr MS10AV1 MS10AD1

WN (cm-1)	AVE (A.U.)	AD (A.U.)
924.072	0.0002132	0.001145
925.037	0.0003854	0.0011339
926.001	-0.0001285	0.0011179
926.965	-0.0002303	0.0011468
927.93	-0.0004125	0.0010903
928.895	-0.0004199	0.0011439
929.859	-0.0000316	0.0011395
930.824	0.0006578	0.0011219
931.788	0.001227	0.0010998
932.753	0.0020501	0.0010973
933.717	0.0015027	0.0010839
934.682	0.0016238	0.0010675
935.646	0.0006802	0.0010577
936.611	0.0004685	0.0010575
937.575	0.0006858	0.0010655
938.54	0.0007718	0.0010534
939.505	0.0014558	0.0009939
940.469	0.0013152	0.0009725
941.434	0.0017242	0.0009628
942.398	0.0011457	0.0010089
943.363	0.0017233	0.0009836
944.327	0.0025594	0.0009993
945.292	0.0017157	0.0009735
946.256	0.002571	0.0009423
947.221	0.002919	0.0009339
948.185	0.0025168	0.0009084
949.15	0.0023166	0.0009264
950.115	0.00207	0.000922
951.079	0.0045453	0.0009243
952.044	0.0030165	0.0009401
953.008	0.0047467	0.0009353
953.973	0.005888	0.000964
954.937	0.0060433	0.0008989
955.902	0.0084145	0.0008932
956.866	0.0066092	0.0009251
957.831	0.0102874	0.0009569
958.795	0.0099455	0.0009437
959.76	0.0119556	0.0009358
960.724	0.0138913	0.0009723
961.689	0.0121212	0.0009791
962.653	0.0169618	0.0009482
963.618	0.0141054	0.0010091
964.583	0.0198318	0.0009903
965.547	0.0192314	0.0010018
966.512	0.0222215	0.0010469

WN (cm-1)	AVE (A.U.)	AD (A.U.)
967.476	0.0287274	0.0010693
968.441	0.0288044	0.0010757
969.405	0.0372845	0.0010395
970.37	0.0302317	0.0010895
971.334	0.0434479	0.0010902
972.299	0.0382288	0.0011919
973.263	0.0484588	0.0011413
974.228	0.0508614	0.0012214
975.192	0.0524394	0.0011761
976.157	0.067505	0.0012455
977.122	0.0581513	0.0012679
978.086	0.0867478	0.0013456
979.051	0.0670471	0.0013723
980.015	0.106277	0.0013508
980.98	0.0801132	0.001386
981.944	0.117921	0.0013108
982.909	0.0995624	0.0014744
983.873	0.128884	0.0013549
984.838	0.124221	0.0015888
985.802	0.138577	0.0012915
986.767	0.155545	0.0015016
987.731	0.152016	0.0014185
988.696	0.188409	0.001626
989.661	0.167583	0.0014204
990.625	0.222007	0.0016871
991.59	0.185923	0.0014902
992.554	0.254522	0.0016531
993.519	0.20751	0.001626
994.483	0.28554	0.0016578
995.448	0.231869	0.0016513
996.412	0.311809	0.0017277
997.377	0.259502	0.001712
998.341	0.339694	0.0015796
999.306	0.288761	0.0016412
1000.27	0.369895	0.0016174
1001.23	0.316962	0.0016909
1002.2	0.40114	0.0015797
1003.16	0.341871	0.0017124
1004.12	0.436529	0.00153
1005.09	0.358418	0.0015452
1006.05	0.463182	0.0015032
1007.02	0.375648	0.0014768
1007.98	0.487945	0.0015027
1008.95	0.38593	0.001497
1009.91	0.505114	0.0013751

Methanol 10.00 Mole % 19.5 Torr MS10AV1 MS10AD1

WN (cm-1)	AVE (A.U.)	AD (A.U.)	WN (cm-1)	AVE (A.U.)	AD (A.U.)
1010.88	0.393649	0.0013358	1054.28	0.639585	0.0013361
1011.84	0.518037	0.0015018	1055.24	0.678912	0.001511
1012.8	0.400826	0.0012152	1056.21	0.669164	0.0015549
1013.77	0.511891	0.0013122	1057.17	0.643334	0.0015655
1014.73	0.409205	0.0011545	1058.14	0.647028	0.001708
1015.7	0.496915	0.001188	1059.1	0.642592	0.0015971
1016.66	0.419254	0.0009684	1060.07	0.619046	0.0016591
1017.63	0.466479	0.0009918	1061.03	0.589299	0.0015343
1018.59	0.420175	0.0010351	1061.99	0.568845	0.0013851
1019.56	0.396442	0.0009774	1062.96	0.54331	0.0014569
1020.52	0.411263	0.0010977	1063.92	0.510151	0.0015374
1021.49	0.337962	0.0008674	1064.89	0.475215	0.001426
1022.45	0.37041	0.0011244	1065.85	0.438058	0.0012768
1023.41	0.278873	0.0006586	1066.82	0.403567	0.001194
1024.38	0.319082	0.0009069	1067.78	0.374037	0.0011335
1025.34	0.254618	0.0004748	1068.75	0.343686	0.001154
1026.31	0.24899	0.0004625	1069.71	0.305199	0.0010436
1027.27	0.251757	0.0005132	1070.67	0.272008	0.0010308
1028.24	0.220114	0.0005737	1071.64	0.245228	0.000904
1029.2	0.2515	0.000639	1072.6	0.218438	0.000843
1030.17	0.29875	0.0008298	1073.57	0.193728	0.000787
1031.13	0.458298	0.001255	1074.53	0.169159	0.0006962
1032.1	0.744443	0.001967	1075.5	0.141295	0.000642
1033.06	1.26316	0.0039666	1076.46	0.120485	0.0005595
1034.02	0.985244	0.0048925	1077.43	0.101911	0.0004685
1034.99	0.308925	0.0012481	1078.39	0.0862834	0.0004146
1035.95	0.213675	0.001098	1079.36	0.0737391	0.0003835
1036.92	0.192553	0.0007913	1080.32	0.064151	0.0002897
1037.88	0.175364	0.0006282	1081.28	0.0533042	0.0003003
1038.85	0.195085	0.0005465	1082.25	0.0450488	0.0002879
1039.81	0.199257	0.0005005	1083.21	0.0387892	0.0002598
1040.78	0.235317	0.0005386	1084.18	0.0327874	0.0002608
1041.74	0.285863	0.0006362	1085.14	0.0294726	0.0002107
1042.7	0.293686	0.0007558	1086.11	0.0259299	0.0001801
1043.67	0.358612	0.0007998	1087.07	0.0232926	0.0001806
1044.63	0.382731	0.0010446	1088.04	0.0204438	0.0002143
1045.6	0.410344	0.0010875	1089	0.0206526	0.0001654
1046.56	0.486399	0.001084	1089.96	0.018802	0.000192
1047.53	0.495126	0.0012189	1090.93	0.0176813	0.0002244
1048.49	0.521228	0.0011891	1091.89	0.0189789	0.0002255
1049.46	0.587229	0.0011893	1092.86	0.0197089	0.0002566
1050.42	0.58523	0.0011346	1093.82	0.0219226	0.0002695
1051.39	0.60472	0.0012346	1094.79	0.0176069	0.0002837
1052.35	0.659078	0.0014177	1095.75	0.0156847	0.0003237
1053.31	0.64437	0.0011822	1096.72	0.0161027	0.0003199

Methanol 10.00 Mole % 19.5 Torr MS10AV1
MS10AD1

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1097.68	0.0174028	0.0003871
1098.64	0.014669	0.0003708
1099.61	0.0141394	0.0004178
1100.57	0.0145296	0.0004941
1101.54	0.0134089	0.000484
1102.5	0.0134922	0.0005352
1103.47	0.0128847	0.0005407
1104.43	0.0129069	0.00058
1105.4	0.0136443	0.0005836
1106.36	0.0145511	0.0006709
1107.32	0.0129388	0.0006609
1108.29	0.0130626	0.0007001
1109.25	0.0120363	0.0007259
1110.22	0.0118382	0.0007751
1111.18	0.0126097	0.0008672
1112.15	0.0136317	0.0008523
1113.11	0.012504	0.0008884
1114.08	0.01613	0.0009437
1115.04	0.015187	0.0009817
1116.01	0.0110349	0.0009902
1116.97	0.0107506	0.0010159
1117.93	0.0096104	0.0010625
1118.9	0.0093046	0.001081
1119.86	0.0098078	0.0011264
1120.83	0.0101133	0.0011126
1121.79	0.0099473	0.0011778
1122.76	0.0101281	0.001171
1123.72	0.0098384	0.0011842
1124.69	0.0098198	0.0011403
1125.65	0.0084016	0.0012023
1126.61	0.0083539	0.00124
1127.58	0.0077486	0.0011977
1128.54	0.0075647	0.0011779
1129.51	0.0085444	0.0011752
1130.47	0.0070527	0.0011761
1131.44	0.0070856	0.0011513
1132.4	0.0069362	0.0011488
1133.37	0.0062955	0.0011371
1134.33	0.0080164	0.0011052
1135.29	0.0105392	0.0010764
1136.26	0.0103002	0.0010749
1137.22	0.0080431	0.0010705
1138.19	0.0073167	0.0010167
1139.15	0.0063263	0.0010257
1140.12	0.0070253	0.0010367

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1141.08	0.0089459	0.000987
1142.05	0.0091744	0.0009984
1143.01	0.0060961	0.0008746
1143.98	0.0070922	0.0009058
1144.94	0.0070837	0.0008314
1145.9	0.0057763	0.0008339
1146.87	0.0055576	0.0008164
1147.83	0.0065006	0.0008152
1148.8	0.0059734	0.000753
1149.76	0.0059004	0.0007217
1150.73	0.0044746	0.0006939
1151.69	0.0050461	0.000694
1152.66	0.0056783	0.0006935
1153.62	0.0046687	0.0006717
1154.58	0.0042422	0.0006916
1155.55	0.0040818	0.0006399
1156.51	0.0046048	0.0006639
1157.48	0.0060353	0.0006542
1158.44	0.0048713	0.0006428
1159.41	0.0056003	0.0006795
1160.37	0.0060113	0.0006488
1161.34	0.005494	0.0006035
1162.3	0.0053868	0.0006306
1163.26	0.0057882	0.0006555
1164.23	0.0068922	0.000659
1165.19	0.0063932	0.0006696
1166.16	0.004997	0.0006553
1167.12	0.0038007	0.0006722
1168.09	0.0045445	0.0007002
1169.05	0.0040499	0.0007093
1170.02	0.004689	0.0006681
1170.98	0.0041773	0.0007198
1171.94	0.0044921	0.0007229
1172.91	0.0049429	0.00073
1173.87	0.0056165	0.0007655
1174.84	0.0067181	0.0008018
1175.8	0.0057162	0.0008311
1176.77	0.0063381	0.0008231
1177.73	0.0059117	0.000842
1178.7	0.0062536	0.0008527
1179.66	0.0065065	0.0008653
1180.63	0.0066831	0.0009024
1181.59	0.0070526	0.000973
1182.55	0.0082646	0.0009133
1183.52	0.0085296	0.0009601

Methanol 10.00 Mole % 19.5 Torr MS10AV1
MS10AD1

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1184.48	0.0088841	0.0009737
1185.45	0.0090111	0.0009739
1186.41	0.0091339	0.001
1187.38	0.0107036	0.0010113
1188.34	0.0100772	0.0009781
1189.31	0.0098552	0.0009988
1190.27	0.0102817	0.0010278
1191.23	0.010067	0.0010124
1192.2	0.0115721	0.0010153
1193.16	0.0109975	0.0010247
1194.13	0.0118402	0.0009636
1195.09	0.0134114	0.0010349
1196.06	0.0130686	0.0010483
1197.02	0.0144648	0.0010451
1197.99	0.0146237	0.0010373
1198.95	0.0149594	0.0010446
1199.91	0.0144853	0.0010105
1200.88	0.0156434	0.0010232
1201.84	0.0172474	0.0010125
1202.81	0.0182794	0.0010462
1203.77	0.0160954	0.0010324
1204.74	0.0169455	0.0009859
1205.7	0.0169517	0.000983
1206.67	0.0174043	0.0009853
1207.63	0.0194482	0.0009809
1208.6	0.0198568	0.0009671
1209.56	0.0193377	0.0009451
1210.52	0.0176828	0.0009377
1211.49	0.0213638	0.0009175
1212.45	0.0228324	0.0009172
1213.42	0.022928	0.0008975
1214.38	0.0250134	0.0008735
1215.35	0.0201745	0.0008085
1216.31	0.0196669	0.0008591
1217.28	0.0179032	0.0008658
1218.24	0.0189764	0.0007925
1219.2	0.0187459	0.000815
1220.17	0.0189679	0.000849
1221.13	0.019354	0.0008309
1222.1	0.0185562	0.0008122
1223.06	0.0206068	0.000821
1224.03	0.0205735	0.0008137
1224.99	0.0246728	0.0008216
1225.96	0.023438	0.0007873
1226.92	0.0203755	0.0007842

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1227.88	0.0223934	0.0008105
1228.85	0.0223112	0.0008005
1229.81	0.0169663	0.0007686
1230.78	0.0170796	0.0007711
1231.74	0.0176683	0.0007898
1232.71	0.0237277	0.0008241
1233.67	0.0235271	0.0008035
1234.64	0.0183308	0.000806
1235.6	0.0179	0.0007419
1236.57	0.0186565	0.000793
1237.53	0.0197791	0.0008428
1238.49	0.0242035	0.0008164
1239.46	0.0273115	0.0008276
1240.42	0.0258397	0.0008192
1241.39	0.0222895	0.0008048
1242.35	0.0216999	0.0008529
1243.32	0.0229685	0.0007969
1244.28	0.0221368	0.0007868
1245.25	0.0210234	0.0007876
1246.21	0.021146	0.0007964
1247.17	0.0215703	0.0008109
1248.14	0.0233523	0.0008131
1249.1	0.0262353	0.000819
1250.07	0.0254845	0.0007868
1251.03	0.0245213	0.0007857
1252	0.0240344	0.0008238
1252.96	0.024803	0.0008279
1253.93	0.0253506	0.0008381
1254.89	0.025922	0.0008331
1255.85	0.0262975	0.0008852
1256.82	0.028022	0.0008065
1257.78	0.0275907	0.0007981
1258.75	0.0270741	0.0008071
1259.71	0.0265723	0.0008253
1260.68	0.0284832	0.0007751
1261.64	0.0268229	0.0008011
1262.61	0.0271365	0.0007886
1263.57	0.0262757	0.0007261
1264.53	0.0264545	0.0007316
1265.5	0.02687	0.0007053
1266.46	0.0259205	0.0007461
1267.43	0.0275628	0.0007122
1268.39	0.0272272	0.000674
1269.36	0.0286851	0.0006693
1270.32	0.0272661	0.0007053

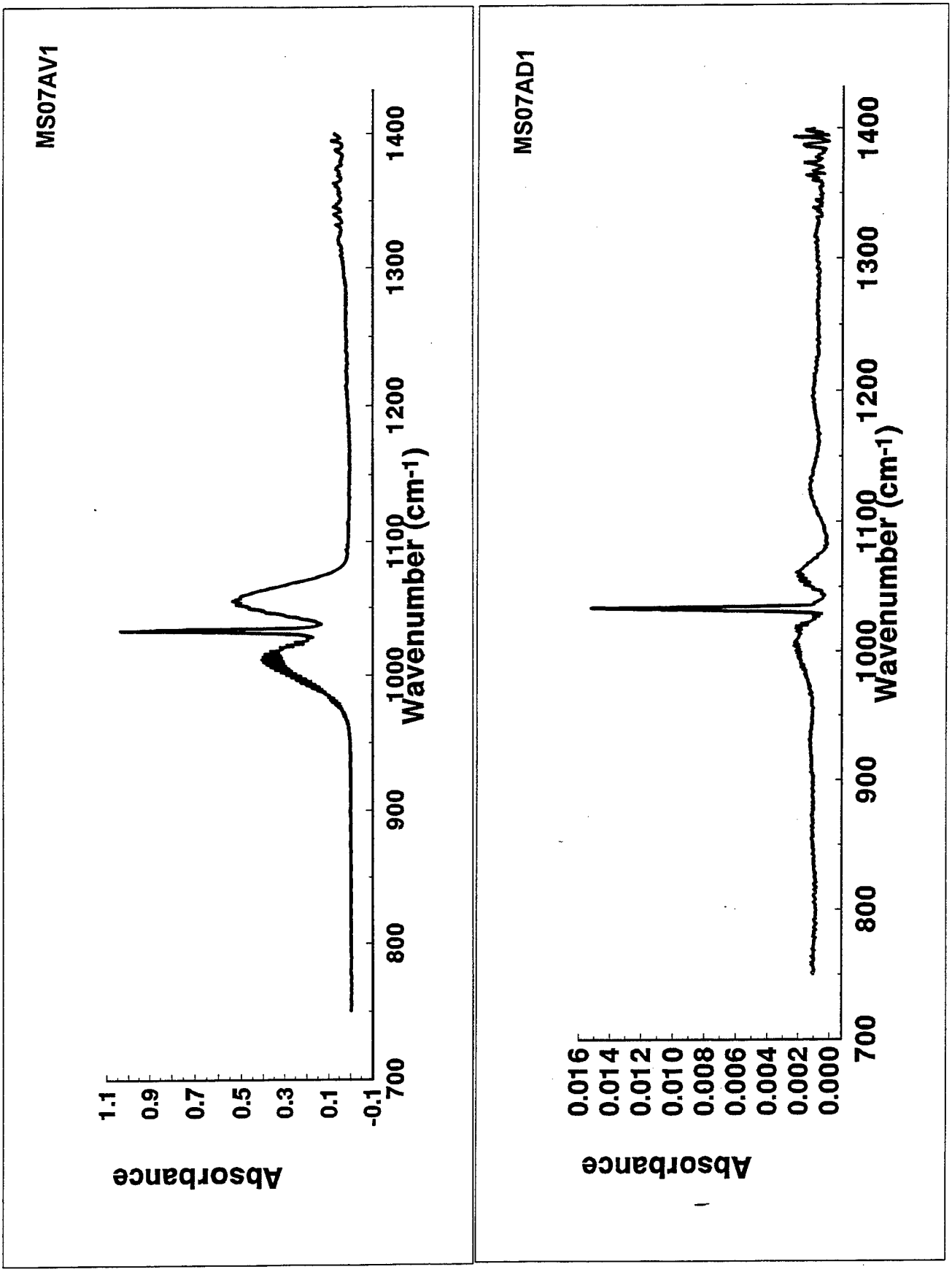
Methanol 10.00 Mole % 19.5 Torr MS10AV1
MS10AD1

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1271.29	0.0267957	0.0006724
1272.25	0.0279857	0.0006442
1273.22	0.0256556	0.0006211
1274.18	0.0250568	0.000669
1275.14	0.0263596	0.0006845
1276.11	0.0248007	0.000734
1277.07	0.0260993	0.0006673
1278.04	0.0248514	0.0007003
1279	0.0259713	0.0006622
1279.97	0.0271643	0.0006732
1280.93	0.0259877	0.0006613
1281.9	0.0279514	0.0006686
1282.86	0.0268486	0.0006997
1283.82	0.0294231	0.000731
1284.79	0.0282377	0.0007006
1285.75	0.027746	0.0007219
1286.72	0.0284759	0.0007991
1287.68	0.029853	0.0007216
1288.65	0.030781	0.0007574
1289.61	0.0314674	0.0008304
1290.58	0.0321118	0.0008047
1291.54	0.0317532	0.0008093
1292.5	0.0356777	0.000819
1293.47	0.0398423	0.0008993
1294.43	0.0389266	0.0008307
1295.4	0.0371124	0.0008601
1296.36	0.0396635	0.0008482
1297.33	0.0389722	0.0008688
1298.29	0.0392489	0.0008744
1299.26	0.0410296	0.0009248
1300.22	0.0406585	0.0008542
1301.18	0.0430274	0.0009138
1302.15	0.0446512	0.0009362
1303.11	0.0455233	0.0009087
1304.08	0.0455317	0.0009411
1305.04	0.0445978	0.0009311
1306.01	0.0500284	0.0008877
1306.97	0.0466381	0.0009925
1307.94	0.0530322	0.0009797
1308.9	0.0547488	0.0009413
1309.87	0.0512922	0.0008735
1310.83	0.0491564	0.0008844
1311.79	0.0516916	0.0009017
1312.76	0.0556095	0.000958
1313.72	0.0517212	0.0008695

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1314.69	0.0522802	0.0009346
1315.65	0.0557206	0.0009349
1316.62	0.0548004	0.0009382
1317.58	0.0668346	0.0009647
1318.55	0.067316	0.0008479
1319.51	0.0646181	0.0008853
1320.47	0.0723065	0.0008228
1321.44	0.0699025	0.0007725
1322.4	0.0683372	0.0007405
1323.37	0.0620631	0.0007599
1324.33	0.0628052	0.0007475
1325.3	0.058764	0.0007525
1326.26	0.0598538	0.0007237
1327.23	0.056399	0.0007795
1328.19	0.0547712	0.0006911
1329.15	0.0582125	0.0006929
1330.12	0.0605519	0.0007195
1331.08	0.0726249	0.0006889
1332.05	0.0839848	0.0006851
1333.01	0.0582341	0.0006416
1333.98	0.0513413	0.0006423
1334.94	0.0522661	0.0006832
1335.91	0.0534333	0.0007412
1336.87	0.0629223	0.0007464
1337.84	0.0617568	0.0007885
1338.8	0.0774885	0.0008428
1339.76	0.0885035	0.0008203
1340.73	0.0799426	0.0007092
1341.69	0.0598858	0.0007019
1342.66	0.0613401	0.0007077
1343.62	0.0627728	0.0007646
1344.59	0.0796081	0.0008497
1345.55	0.0966845	0.0007633
1346.52	0.0802214	0.0006269
1347.48	0.0827775	0.0006913
1348.44	0.0654402	0.0006885
1349.41	0.0671356	0.0006581
1350.37	0.0582767	0.0006586
1351.34	0.0567503	0.000776
1352.3	0.0585203	0.0008106
1353.27	0.0601948	0.0007573
1354.23	0.0662988	0.0008533
1355.2	0.0683372	0.0008512
1356.16	0.0616735	0.0008552
1357.12	0.0694633	0.0008652

Methanol 10.00 Mole % 19.5 Torr MS10AV1
MS10AD1

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1358.09	0.0680812	0.0009439
1359.05	0.0662549	0.0008813
1360.02	0.0719053	0.0009068
1360.98	0.0807096	0.0009636
1361.95	0.0759083	0.0010341
1362.91	0.0857066	0.0008747
1363.88	0.0720077	0.0009486
1364.84	0.0605326	0.0007764
1365.8	0.0575852	0.0008249
1366.77	0.0556014	0.0009299
1367.73	0.0587602	0.0009241
1368.7	0.06721	0.000929
1369.66	0.0618518	0.0009773
1370.63	0.0695193	0.000833
1371.59	0.0656437	0.0008522
1372.56	0.0698339	0.0009241
1373.52	0.0765392	0.000872
1374.49	0.0755493	0.0008463
1375.45	0.0704427	0.0006048
1376.41	0.0555924	0.0007143
1377.38	0.0540427	0.0007527
1378.34	0.0583281	0.0006565
1379.31	0.0584844	0.0005555
1380.27	0.0579937	0.000679
1381.24	0.0499055	0.0005861
1382.2	0.04948	0.0005734
1383.17	0.0491646	0.0006146
1384.13	0.0477169	0.0005308
1385.09	0.052552	0.0006309
1386.06	0.0577778	0.0006416
1387.02	0.0711986	0.0005447
1387.99	0.0801922	0.0005354
1388.95	0.05668	0.0004178
1389.92	0.0516028	0.0005453
1390.88	0.0486978	0.0004932
1391.85	0.0493598	0.0004585
1392.81	0.0509862	0.000681
1393.77	0.0626763	0.0006943
1394.74	0.0925431	0.0006285
1395.7	0.0707878	0.0004729
1396.67	0.0596412	0.0004643
1397.63	0.0613032	0.0006209
1398.6	0.0687631	0.0005952
1399.56	0.0809937	0.0005347


MS07AV1
Absorbance
1.1
0.9
0.7
0.5
0.3
0.1
-0.1
700
800
900
1000
1100
1200
1300
1400
Wavenumber (cm-1)
MS07AD1
Absorbance
0.016
0.014
0.012
0.010
0.008
0.006
0.004
0.002
0.000
700
800
900
1000
1100
1200
1300
1400
Wavenumber (cm-1)

Methanol 7.66 Mole % 15.7 Torr MS07AV1
MS07AD1

WN (cm-1)	AVE (A.U.)	AD (A.U.)
750.455	-0.0040829	0.0010539
751.42	-0.0054657	0.0010891
752.384	-0.0049237	0.0009956
753.349	-0.0054296	0.0009905
754.313	-0.0055973	0.0010157
755.278	-0.0058896	0.0010248
756.242	-0.00537	0.0010568
757.207	-0.0056958	0.0011333
758.171	-0.0040491	0.0010642
759.136	-0.0046142	0.0011284
760.1	-0.0047927	0.0010355
761.065	-0.0048048	0.0009772
762.029	-0.0050328	0.0009891
762.994	-0.0058518	0.0010954
763.959	-0.0059486	0.0011318
764.923	-0.0054751	0.001008
765.888	-0.0065157	0.0009921
766.852	-0.0054301	0.0010252
767.817	-0.005756	0.0009948
768.781	-0.0058183	0.000965
769.746	-0.0058477	0.0010767
770.71	-0.0047779	0.0010182
771.675	-0.0052804	0.0009926
772.639	-0.0051109	0.0009955
773.604	-0.0056516	0.0010085
774.568	-0.0057308	0.0009724
775.533	-0.0061534	0.0009793
776.498	-0.0050825	0.0009892
777.462	-0.0031733	0.000914
778.427	-0.0037096	0.0009116
779.391	-0.0026145	0.0010301
780.356	-0.0025397	0.0010231
781.32	-0.0039893	0.0009581
782.285	-0.0050029	0.0009838
783.249	-0.0052658	0.0009723
784.214	-0.0054076	0.0008695
785.178	-0.0054968	0.0009453
786.143	-0.0052364	0.0009824
787.107	-0.0055994	0.000926
788.072	-0.0054927	0.0009007
789.037	-0.0058283	0.0008461
790.001	-0.0048587	0.0009262
790.966	-0.0049184	0.0009608
791.93	-0.0046252	0.000994
792.895	-0.0048935	0.0008933

WN (cm-1)	AVE (A.U.)	AD (A.U.)
793.859	-0.0039781	0.0009213
794.824	-0.0039662	0.0009109
795.788	-0.003411	0.0008723
796.753	-0.0041258	0.0009014
797.717	-0.0044027	0.000908
798.682	-0.0040112	0.0008627
799.646	-0.0039114	0.0008748
800.611	-0.0038808	0.000866
801.576	-0.0037198	0.0009153
802.54	-0.0038656	0.0009257
803.505	-0.0039833	0.000908
804.469	-0.0035191	0.0009257
805.434	-0.0030844	0.0009953
806.398	-0.0024513	0.0009496
807.363	-0.0027751	0.0009017
808.327	-0.0037227	0.0009136
809.292	-0.0041004	0.0009401
810.256	-0.0047896	0.0010066
811.221	-0.0045643	0.0009976
812.185	-0.0041901	0.0009167
813.15	-0.0043967	0.0008782
814.115	-0.0038075	0.0008905
815.079	-0.003775	0.0009529
816.044	-0.0031101	0.0009384
817.008	-0.002667	0.0008356
817.973	-0.0029716	0.0009365
818.937	-0.002833	0.0009528
819.902	-0.002064	0.000984
820.866	-0.0021781	0.0008426
821.831	-0.0034329	0.0008874
822.795	-0.0040174	0.0009143
823.76	-0.0041136	0.0009004
824.724	-0.003194	0.0009605
825.689	-0.0034091	0.0009176
826.654	-0.0028323	0.0009455
827.618	-0.0021827	0.0008895
828.583	-0.0025644	0.000963
829.547	-0.0029276	0.0009702
830.512	-0.002987	0.0009899
831.476	-0.003145	0.0010022
832.441	-0.0036139	0.0009913
833.405	-0.0040421	0.0009682
834.37	-0.0040058	0.0010214
835.334	-0.0037094	0.001007
836.299	-0.0034392	0.001027

Methanol 7.66 Mole % 15.7 Torr MS07AV1
MS07AD1

WN (cm-1)	AVE (A.U.)	AD (A.U.)
837.263	-0.0030193	0.0009776
838.228	-0.0030505	0.0010081
839.193	-0.0028006	0.0010279
840.157	-0.002093	0.000976
841.122	-0.0025069	0.0009891
842.086	-0.0030801	0.0009938
843.051	-0.0036161	0.0010785
844.015	-0.0037682	0.00102
844.98	-0.0034076	0.0010548
845.944	-0.0033099	0.001009
846.909	-0.0033831	0.0010549
847.873	-0.0031798	0.0010885
848.838	-0.0026758	0.0010426
849.802	-0.0026408	0.0010933
850.767	-0.0023567	0.0010707
851.732	-0.0022459	0.0010857
852.696	-0.0027844	0.0010957
853.661	-0.002844	0.001108
854.625	-0.003412	0.0011321
855.59	-0.0035064	0.0011285
856.554	-0.0037717	0.0010478
857.519	-0.0037919	0.0010751
858.483	-0.0032966	0.0010814
859.448	-0.0020871	0.0010725
860.412	-0.0018487	0.0010881
861.377	-0.0025	0.0011226
862.341	-0.0019632	0.0010914
863.306	-0.0024222	0.0010603
864.271	-0.0022503	0.0011509
865.235	-0.0023287	0.0010834
866.2	-0.002202	0.0010744
867.164	-0.0024993	0.0010528
868.129	-0.0031535	0.0011062
869.093	-0.0032005	0.0010606
870.058	-0.0029199	0.0010851
871.022	-0.0027706	0.0011229
871.987	-0.0016739	0.0011072
872.951	-0.0009128	0.0011304
873.916	-0.0010005	0.0010628
874.88	-0.0009592	0.0010897
875.845	-0.0013258	0.001073
876.809	-0.0017277	0.0010108
877.774	-0.0022842	0.0010877
878.739	-0.0023348	0.0010068
879.703	-0.0026203	0.0010699

WN (cm-1)	AVE (A.U.)	AD (A.U.)
880.668	-0.002571	0.0010852
881.632	-0.0028232	0.0010266
882.597	-0.0025235	0.0010879
883.561	-0.002309	0.0010459
884.526	-0.0022906	0.0010323
885.49	-0.0016774	0.0010525
886.455	-0.0014765	0.0010777
887.419	-0.0013654	0.0010788
888.384	-0.0017075	0.0011213
889.349	-0.0020539	0.0010723
890.313	-0.0024369	0.0010717
891.278	-0.002879	0.0010219
892.242	-0.0027104	0.0010689
893.207	-0.0028284	0.0011089
894.171	-0.0021907	0.0010951
895.136	-0.0019063	0.00107
896.1	-0.001287	0.0010562
897.065	-0.0006282	0.0011092
898.029	-0.0006037	0.0010653
898.994	0.000148	0.0010696
899.958	0.0000812	0.0010687
900.923	-0.0014394	0.0010546
901.887	-0.0017817	0.0010621
902.852	-0.0022821	0.0010484
903.817	-0.002668	0.0011124
904.781	-0.0024777	0.001099
905.746	-0.002405	0.0011958
906.71	-0.0017873	0.0011512
907.675	-0.0012323	0.0011581
908.639	-0.0009429	0.0011486
909.604	-0.0007836	0.0011946
910.568	-0.0008963	0.001155
911.533	-0.0008262	0.0011784
912.497	-0.0009802	0.001148
913.462	-0.0013734	0.0011571
914.427	-0.0021	0.0011574
915.391	-0.0019239	0.0011663
916.356	-0.0017007	0.0011509
917.32	-0.001888	0.0011701
918.285	-0.0012958	0.0011797
919.249	-0.0008454	0.0012008
920.214	-0.0005844	0.0012037
921.178	-0.0005093	0.0012129
922.143	-0.0005678	0.0012058
923.107	-0.0010755	0.0012093

Methanol 7.66 Mole % 15.7 Torr MS07AV1
MS07AD1

WN (cm-1)	AVE (A.U.)	AD (A.U.)
924.072	-0.0011899	0.001249
925.037	-0.0009382	0.001206
926.001	-0.0013469	0.0012593
926.965	-0.0014149	0.0012498
927.93	-0.0018674	0.0012195
928.895	-0.0017782	0.0012068
929.859	-0.0014776	0.0012745
930.824	-0.0008709	0.0012905
931.788	-0.0003821	0.0012381
932.753	0.0004422	0.0012327
933.717	0.0000566	0.0012246
934.682	-0.000019	0.0012171
935.646	-0.0007944	0.0011996
936.611	-0.0009329	0.0012263
937.575	-0.0009649	0.001234
938.54	-0.0008545	0.0011782
939.505	-0.0003817	0.0011644
940.469	-0.000673	0.0011641
941.434	-0.0003405	0.0011788
942.398	-0.0005183	0.0011634
943.363	-3.76E-06	0.0011169
944.327	0.0005607	0.0011264
945.292	-0.0000802	0.0011237
946.256	0.0006818	0.0011009
947.221	0.0008363	0.0011584
948.185	0.0004743	0.0011322
949.15	0.0002569	0.0011126
950.115	0.0000317	0.001116
951.079	0.001968	0.0010756
952.044	0.0007384	0.0011168
953.008	0.0019228	0.0011002
953.973	0.0029486	0.0010998
954.937	0.0032051	0.0010853
955.902	0.0051585	0.0010571
956.866	0.0036381	0.0011241
957.831	0.0062806	0.0011551
958.795	0.006188	0.0011402
959.76	0.0077163	0.0011256
960.724	0.0090784	0.001134
961.689	0.0076766	0.0011612
962.653	0.0114304	0.0011072
963.618	0.0092159	0.0011167
964.583	0.0136606	0.0011374
965.547	0.0132785	0.0011668
966.512	0.015731	0.0012621

WN (cm-1)	AVE (A.U.)	AD (A.U.)
967.476	0.0206897	0.0011448
968.441	0.0210064	0.0012229
969.405	0.0274633	0.0012315
970.37	0.0220081	0.0012655
971.334	0.0321868	0.0013186
972.299	0.0281165	0.0012563
973.263	0.0361914	0.0013541
974.228	0.0380032	0.0013068
975.192	0.0391627	0.0013939
976.157	0.0510994	0.0013895
977.122	0.043846	0.0013955
978.086	0.0661955	0.0014219
979.051	0.0511424	0.0014651
980.015	0.0817712	0.001521
980.98	0.0614945	0.0014762
981.944	0.091052	0.0015779
982.909	0.0768445	0.0015447
983.873	0.099451	0.0015937
984.838	0.0958949	0.0015581
985.802	0.106995	0.0017055
986.767	0.120531	0.0016275
987.731	0.11773	0.001803
988.696	0.14652	0.0016636
989.661	0.130295	0.0017217
990.625	0.173078	0.0018409
991.59	0.144911	0.0018755
992.554	0.198913	0.0018522
993.519	0.161839	0.0018743
994.483	0.223296	0.0020044
995.448	0.181294	0.0018896
996.412	0.244032	0.002025
997.377	0.202737	0.0018911
998.341	0.26628	0.0020773
999.306	0.22596	0.0018956
1000.27	0.290186	0.0021429
1001.23	0.24848	0.0019354
1002.2	0.315366	0.0021023
1003.16	0.26855	0.0019916
1004.12	0.34331	0.0022729
1005.09	0.282087	0.0020193
1006.05	0.364177	0.0022312
1007.02	0.295597	0.0021223
1007.98	0.383444	0.0021941
1008.95	0.303342	0.0021219
1009.91	0.396651	0.0020492

Methanol 7.66 Mole % 15.7 Torr MS07AV1
MS07AD1

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1010.88	0.308648	0.0019842
1011.84	0.406759	0.0019872
1012.8	0.314129	0.0019558
1013.77	0.401202	0.0018605
1014.73	0.320005	0.0019555
1015.7	0.389624	0.0020934
1016.66	0.327291	0.0018388
1017.63	0.365072	0.0021515
1018.59	0.327309	0.0018399
1019.56	0.309163	0.0021256
1020.52	0.319303	0.0014712
1021.49	0.262571	0.0017854
1022.45	0.286603	0.0013394
1023.41	0.215956	0.0012076
1024.38	0.247064	0.001095
1025.34	0.197761	0.0009499
1026.31	0.193722	0.0010521
1027.27	0.197391	0.0007037
1028.24	0.17318	0.0010772
1029.2	0.197943	0.0005425
1030.17	0.235497	0.0012694
1031.13	0.36154	0.003587
1032.1	0.59182	0.007523
1033.06	1.03573	0.0099273
1034.02	0.842732	0.0151928
1034.99	0.244942	0.0051842
1035.95	0.163823	0.0011579
1036.92	0.14703	0.0010031
1037.88	0.134561	0.001001
1038.85	0.15077	0.0007276
1039.81	0.15573	0.0006066
1040.78	0.18471	0.0004609
1041.74	0.225859	0.0004185
1042.7	0.233567	0.0004172
1043.67	0.284668	0.0003468
1044.63	0.304484	0.0005338
1045.6	0.326268	0.0005479
1046.56	0.386795	0.0005114
1047.53	0.393526	0.0007883
1048.49	0.413806	0.0011106
1049.46	0.465893	0.0010762
1050.42	0.463614	0.0012224
1051.39	0.47802	0.0016054
1052.35	0.520906	0.001358
1053.31	0.507809	0.0013074

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1054.28	0.502936	0.0018397
1055.24	0.53384	0.001926
1056.21	0.524877	0.0015582
1057.17	0.502667	0.001882
1058.14	0.505232	0.0020273
1059.1	0.500628	0.0017253
1060.07	0.480945	0.0018266
1061.03	0.457017	0.0021126
1061.99	0.440554	0.0019278
1062.96	0.420461	0.0018433
1063.92	0.393954	0.0017367
1064.89	0.366565	0.0016873
1065.85	0.337374	0.0016048
1066.82	0.310521	0.0014703
1067.78	0.287248	0.0014401
1068.75	0.263747	0.0012651
1069.71	0.233912	0.0011769
1070.67	0.208044	0.0011238
1071.64	0.187181	0.0010125
1072.6	0.166568	0.0008292
1073.57	0.147617	0.0007841
1074.53	0.128862	0.0007717
1075.5	0.107249	0.0006167
1076.46	0.0913339	0.0005087
1077.43	0.0769703	0.0004336
1078.39	0.065081	0.0003596
1079.36	0.0555124	0.0003458
1080.32	0.048269	0.0002461
1081.28	0.0398698	0.0003024
1082.25	0.0336302	0.0002031
1083.21	0.028788	0.0001884
1084.18	0.024237	0.0002266
1085.14	0.0218182	0.0002412
1086.11	0.0191364	0.0002324
1087.07	0.0174655	0.0002209
1088.04	0.0151088	0.0002366
1089	0.0154145	0.000216
1089.96	0.013863	0.0002481
1090.93	0.0130784	0.0002835
1091.89	0.0139117	0.0003093
1092.86	0.0145379	0.0003556
1093.82	0.016293	0.0003624
1094.79	0.0129229	0.0003562
1095.75	0.0112385	0.0003723
1096.72	0.0116846	0.0003835

Methanol 7.66 Mole % 15.7 Torr MS07AV1
MS07AD1

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1097.68	0.0125661	0.000445
1098.64	0.010431	0.0004888
1099.61	0.0099575	0.0005046
1100.57	0.0102989	0.0005427
1101.54	0.0096552	0.0005699
1102.5	0.0096513	0.000585
1103.47	0.0092127	0.0006321
1104.43	0.0090514	0.0007076
1105.4	0.0095407	0.0007449
1106.36	0.0101599	0.0007958
1107.32	0.0089695	0.0008002
1108.29	0.0090175	0.0008199
1109.25	0.0082563	0.0008631
1110.22	0.0079547	0.0008642
1111.18	0.0086147	0.0009907
1112.15	0.009354	0.0009932
1113.11	0.0086086	0.0010466
1114.08	0.011411	0.0010416
1115.04	0.010614	0.0010398
1116.01	0.0073528	0.0010988
1116.97	0.0070278	0.0011283
1117.93	0.0061286	0.0011949
1118.9	0.005882	0.0011595
1119.86	0.0060875	0.0012119
1120.83	0.0064715	0.0012442
1121.79	0.0062209	0.0012474
1122.76	0.0064917	0.0012721
1123.72	0.0065513	0.0012399
1124.69	0.0065277	0.0013173
1125.65	0.0052516	0.0012564
1126.61	0.0052355	0.0012634
1127.58	0.0048178	0.0012727
1128.54	0.0046622	0.0012878
1129.51	0.0052811	0.0012751
1130.47	0.0042679	0.0012347
1131.44	0.0042245	0.001183
1132.4	0.004274	0.0012252
1133.37	0.0037687	0.0012661
1134.33	0.0052345	0.0012102
1135.29	0.0071658	0.0011709
1136.26	0.0069282	0.0010995
1137.22	0.0051264	0.0011106
1138.19	0.0045659	0.0010912
1139.15	0.0038706	0.0011109
1140.12	0.004435	0.0011118

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1141.08	0.005753	0.0010797
1142.05	0.0060521	0.0010147
1143.01	0.0036356	0.0010183
1143.98	0.0042395	0.0009921
1144.94	0.004336	0.0010033
1145.9	0.0033358	0.0009182
1146.87	0.0031611	0.0009196
1147.83	0.004043	0.0009397
1148.8	0.0037601	0.0009142
1149.76	0.0037459	0.0008523
1150.73	0.0025584	0.0008646
1151.69	0.0029025	0.0008649
1152.66	0.0033084	0.0008371
1153.62	0.0026433	0.0008088
1154.58	0.0023135	0.0007622
1155.55	0.0021142	0.0007911
1156.51	0.002706	0.0007805
1157.48	0.003772	0.0007687
1158.44	0.0028647	0.0007474
1159.41	0.0035255	0.0007198
1160.37	0.0038465	0.0007595
1161.34	0.0034617	0.0006964
1162.3	0.0033264	0.0007092
1163.26	0.003613	0.0007537
1164.23	0.0046008	0.0007663
1165.19	0.0041575	0.0007494
1166.16	0.0031048	0.0007654
1167.12	0.0021537	0.0006823
1168.09	0.0027048	0.0007407
1169.05	0.0022057	0.0007699
1170.02	0.0029028	0.0008006
1170.98	0.0026056	0.0007852
1171.94	0.0026977	0.0007757
1172.91	0.0032677	0.0007603
1173.87	0.0038483	0.0008325
1174.84	0.0047392	0.0008312
1175.8	0.0038728	0.0008682
1176.77	0.0044187	0.0008287
1177.73	0.0039682	0.0008765
1178.7	0.0041509	0.0008966
1179.66	0.0044044	0.0009258
1180.63	0.0046731	0.0009256
1181.59	0.0048822	0.0009504
1182.55	0.0058035	0.0009773
1183.52	0.0061896	0.0009528

Methanol 7.66 Mole % 15.7 Torr MS07AV1
MS07AD1

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1184.48	0.0065372	0.0009934
1185.45	0.0065148	0.0009857
1186.41	0.0067146	0.0010319
1187.38	0.0080125	0.0010135
1188.34	0.007353	0.0010374
1189.31	0.0072298	0.0009984
1190.27	0.0076697	0.0010676
1191.23	0.0074105	0.0010776
1192.2	0.008583	0.0010352
1193.16	0.00815	0.0010328
1194.13	0.0088049	0.0011177
1195.09	0.0100991	0.0011099
1196.06	0.0100131	0.0011262
1197.02	0.0111275	0.0010974
1197.99	0.0111216	0.0010598
1198.95	0.0113625	0.0010611
1199.91	0.0111453	0.0011143
1200.88	0.0119859	0.0010874
1201.84	0.0130223	0.0011027
1202.81	0.014098	0.0010571
1203.77	0.012374	0.0010297
1204.74	0.0132093	0.0010213
1205.7	0.0131001	0.0010366
1206.67	0.0136114	0.0010287
1207.63	0.015272	0.0009872
1208.6	0.0154937	0.0010238
1209.56	0.015171	0.0009841
1210.52	0.014006	0.0010129
1211.49	0.0169383	0.0010034
1212.45	0.0180829	0.0010302
1213.42	0.0179375	0.0009513
1214.38	0.0195571	0.0009326
1215.35	0.015666	0.0009009
1216.31	0.0152568	0.0009287
1217.28	0.0141194	0.0009487
1218.24	0.0151172	0.0008958
1219.2	0.0148632	0.0008691
1220.17	0.0150176	0.000891
1221.13	0.0152431	0.000894
1222.1	0.0148156	0.000895
1223.06	0.0161038	0.000849
1224.03	0.0161132	0.0008594
1224.99	0.0194932	0.0008755
1225.96	0.0184851	0.0007931
1226.92	0.0159503	0.0007711

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1227.88	0.0174134	0.0007546
1228.85	0.0172546	0.0007549
1229.81	0.0132542	0.0007507
1230.78	0.0134811	0.0007907
1231.74	0.0139599	0.0007897
1232.71	0.0186593	0.0007991
1233.67	0.0185954	0.0008149
1234.64	0.0142765	0.0007865
1235.6	0.0139092	0.0007208
1236.57	0.0146307	0.0007308
1237.53	0.0155412	0.0007773
1238.49	0.0189416	0.0008412
1239.46	0.0212907	0.0007577
1240.42	0.0202154	0.0007079
1241.39	0.0174245	0.0007654
1242.35	0.0170313	0.0007873
1243.32	0.0179616	0.0007958
1244.28	0.0174783	0.000771
1245.25	0.0164286	0.0007696
1246.21	0.0164475	0.0007983
1247.17	0.0167464	0.0007718
1248.14	0.0182511	0.0007748
1249.1	0.0202592	0.000763
1250.07	0.0197907	0.0007393
1251.03	0.0190724	0.0007504
1252	0.0186004	0.0007745
1252.96	0.019163	0.0007863
1253.93	0.0198023	0.0008024
1254.89	0.0200219	0.0008064
1255.85	0.0204736	0.0007953
1256.82	0.02185	0.000824
1257.78	0.0217233	0.0008369
1258.75	0.0213454	0.0008293
1259.71	0.0209244	0.0007884
1260.68	0.0225101	0.0008044
1261.64	0.0208271	0.000822
1262.61	0.0210297	0.0008008
1263.57	0.0202217	0.000808
1264.53	0.0204654	0.0008125
1265.5	0.0208378	0.0008232
1266.46	0.0200848	0.0008192
1267.43	0.0212294	0.0008623
1268.39	0.0212694	0.00081
1269.36	0.0223195	0.0007729
1270.32	0.0216204	0.0007741

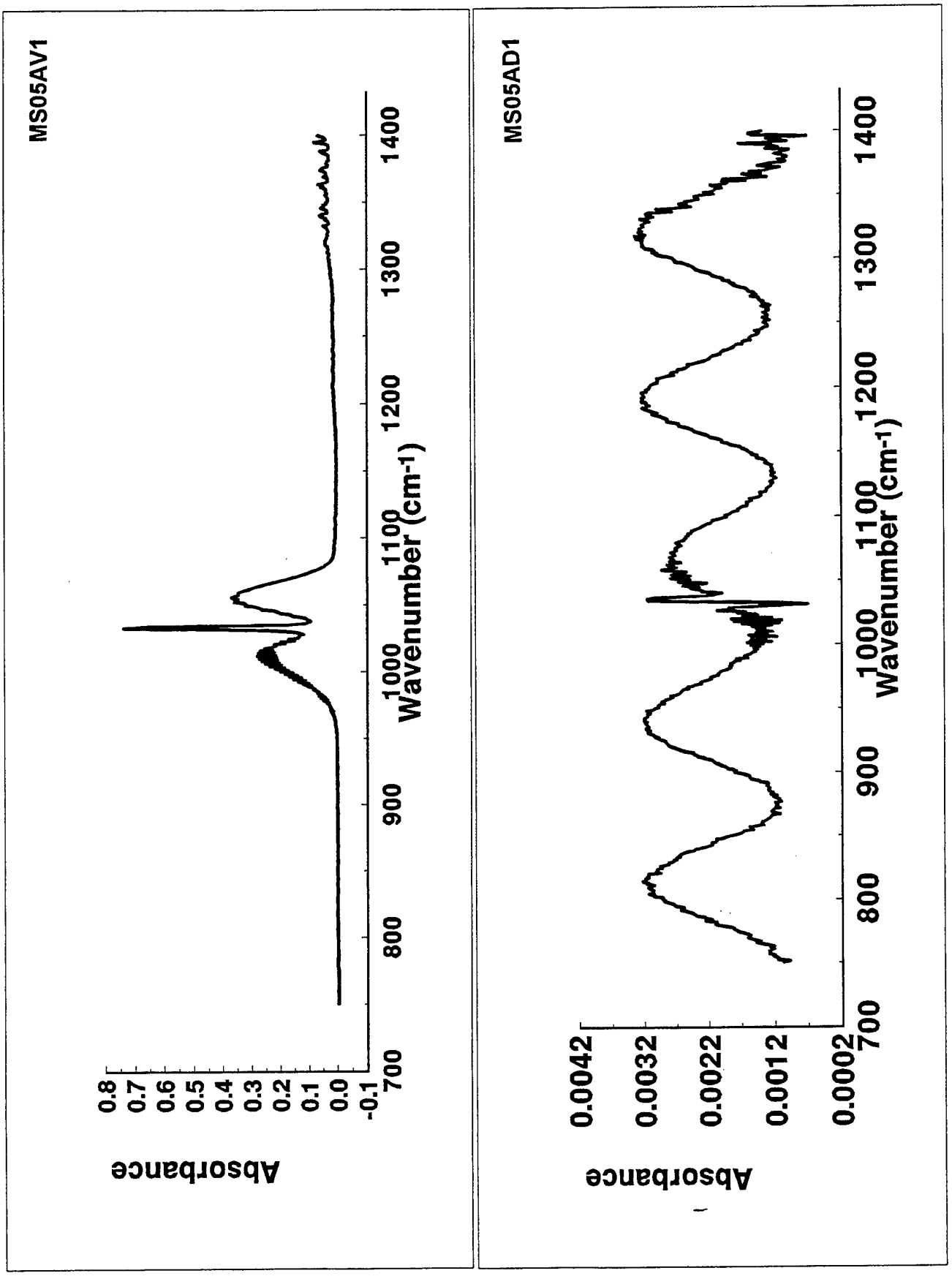
Methanol 7.66 Mole % 15.7 Torr MS07AV1
MS07AD1

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1271.29	0.0212234	0.0007852
1272.25	0.022272	0.0007659
1273.22	0.0199046	0.0008052
1274.18	0.0192894	0.0007742
1275.14	0.0201849	0.0007777
1276.11	0.019089	0.0008122
1277.07	0.0202936	0.000795
1278.04	0.0192739	0.000785
1279	0.0201443	0.0007025
1279.97	0.0211914	0.0007491
1280.93	0.0199822	0.000727
1281.9	0.0213704	0.0007948
1282.86	0.0205406	0.0007728
1283.82	0.0228321	0.0007139
1284.79	0.0218393	0.0007369
1285.75	0.0213888	0.0007556
1286.72	0.0221402	0.0008237
1287.68	0.0234814	0.0007471
1288.65	0.024028	0.0007184
1289.61	0.024424	0.0006909
1290.58	0.024899	0.0007638
1291.54	0.0242999	0.0007382
1292.5	0.0274428	0.0008439
1293.47	0.0305357	0.0008236
1294.43	0.0297722	0.0008063
1295.4	0.028474	0.0007693
1296.36	0.0306181	0.000755
1297.33	0.0297949	0.0008463
1298.29	0.0299572	0.0008888
1299.26	0.0312016	0.0008661
1300.22	0.0309545	0.0008624
1301.18	0.0328654	0.0008006
1302.15	0.0341357	0.0008919
1303.11	0.0348814	0.0008804
1304.08	0.0348231	0.0008444
1305.04	0.034214	0.0008321
1306.01	0.0383931	0.0008962
1306.97	0.0357505	0.0008835
1307.94	0.0408049	0.0009068
1308.9	0.0420065	0.0008705
1309.87	0.0395186	0.0008733
1310.83	0.0377031	0.0009486
1311.79	0.0401053	0.0009795
1312.76	0.044054	0.000872
1313.72	0.0403601	0.00084

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1314.69	0.040856	0.0009004
1315.65	0.0431356	0.0008892
1316.62	0.0434656	0.0010379
1317.58	0.0524048	0.0009887
1318.55	0.053705	0.0010079
1319.51	0.051407	0.0009135
1320.47	0.0563766	0.000936
1321.44	0.0537093	0.0009164
1322.4	0.0527598	0.0008657
1323.37	0.0477783	0.0009021
1324.33	0.0484585	0.0008513
1325.3	0.0453588	0.0008688
1326.26	0.0463574	0.0007982
1327.23	0.0434455	0.0008173
1328.19	0.0423873	0.0007673
1329.15	0.0451857	0.0007809
1330.12	0.0469702	0.000818
1331.08	0.0563082	0.000889
1332.05	0.0653534	0.000574
1333.01	0.0454216	0.0005622
1333.98	0.040279	0.0005692
1334.94	0.0413041	0.0006567
1335.91	0.043279	0.0008215
1336.87	0.0526338	0.0006995
1337.84	0.0507445	0.0009566
1338.8	0.065851	0.0011054
1339.76	0.0738221	0.0005978
1340.73	0.0664566	0.0007023
1341.69	0.0465317	0.000553
1342.66	0.0475671	0.0005867
1343.62	0.0491525	0.0008407
1344.59	0.0623452	0.0009391
1345.55	0.0756091	0.0005564
1346.52	0.0628655	0.0005755
1347.48	0.0647227	0.0005519
1348.44	0.051113	0.0006326
1349.41	0.053164	0.0005225
1350.37	0.0455429	0.0006078
1351.34	0.0445301	0.0006062
1352.3	0.0458709	0.0006605
1353.27	0.0473345	0.0006806
1354.23	0.0523859	0.0006963
1355.2	0.0548219	0.0005406
1356.16	0.0482604	0.0006197
1357.12	0.0547519	0.0005312

Methanol 7.66 Mole % 15.7 Torr MS07AV1
MS07AD1

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1358.09	0.0542983	0.000604
1359.05	0.0529017	0.0006525
1360.02	0.058268	0.0011578
1360.98	0.0686444	0.001108
1361.95	0.0627713	0.00081
1362.91	0.0752762	0.0011872
1363.88	0.0586959	0.0015209
1364.84	0.0474894	0.000455
1365.8	0.0453149	0.0008844
1366.77	0.0439382	0.0011244
1367.73	0.0471836	0.0010032
1368.7	0.0556742	0.0007491
1369.66	0.0487425	0.0005282
1370.63	0.054608	0.0005905
1371.59	0.0523557	0.0009344
1372.56	0.0570748	0.0011804
1373.52	0.0662585	0.0016578
1374.49	0.063652	0.0008904
1375.45	0.0584648	0.0006628
1376.41	0.0432673	0.0006189
1377.38	0.043021	0.0009492
1378.34	0.0472157	0.0008008
1379.31	0.0464315	0.0007861
1380.27	0.0457501	0.0005545
1381.24	0.0392988	0.0004699
1382.2	0.0392683	0.0005122
1383.17	0.0389116	0.0003698
1384.13	0.0387769	0.0003467
1385.09	0.0428983	0.0007491
1386.06	0.0492351	0.0015582
1387.02	0.0636599	0.0017204
1387.99	0.068493	0.0014538
1388.95	0.0446475	0.0006847
1389.92	0.0410748	0.0001574
1390.88	0.0398646	0.0003365
1391.85	0.0408111	0.0004375
1392.81	0.0434182	0.0010764
1393.77	0.0570034	0.0023398
1394.74	0.0862287	0.0002007
1395.7	0.0624515	0.0008749
1396.67	0.0499631	0.0005636
1397.63	0.0538094	0.0012205
1398.6	0.0608863	0.0015962
1399.56	0.0721625	0.0010753


MS05AV1
Absorbance
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
-0.1
700
800
900
1000
1100
1200
1300
1400
Wavenumber (cm-1)
MS05AD1
Absorbance
0.0042
0.0032
0.0022
0.0012
0.0002
700
800
900
1000
1100
1200
1300
1400
Wavenumber (cm-1)

Methanol 4.98 Mole % 10.8 Torr MS05AV1 MS05AD1

WN (cm-1)	AVE (A.U.)	AD (A.U.)
750.455	-0.0023614	0.0010689
751.42	-0.0033727	0.0009782
752.384	-0.0031775	0.0011454
753.349	-0.0036133	0.0011435
754.313	-0.0036341	0.0011646
755.278	-0.0042723	0.0012155
756.242	-0.0036644	0.001196
757.207	-0.0037248	0.001281
758.171	-0.0023532	0.0012766
759.136	-0.0024456	0.0012785
760.1	-0.0025305	0.001244
761.065	-0.0025869	0.0012133
762.029	-0.0027173	0.0012612
762.994	-0.0036018	0.0012118
763.959	-0.0039521	0.0012804
764.923	-0.0033453	0.0013811
765.888	-0.004238	0.0014667
766.852	-0.0032923	0.0014147
767.817	-0.0032081	0.0014892
768.781	-0.002953	0.0015336
769.746	-0.0033351	0.0015927
770.71	-0.0022535	0.0015789
771.675	-0.0025624	0.0015651
772.639	-0.0022868	0.0016074
773.604	-0.0030328	0.0016704
774.568	-0.0030393	0.0017448
775.533	-0.0032203	0.0017708
776.498	-0.0025303	0.0018111
777.462	-0.0012179	0.0018201
778.427	-0.0013864	0.0018856
779.391	-0.0009381	0.0020011
780.356	-0.0005483	0.0020935
781.32	-0.0011255	0.00207
782.285	-0.0017946	0.0020835
783.249	-0.00224	0.00225
784.214	-0.0021297	0.0021519
785.178	-0.0020585	0.0022449
786.143	-0.0021012	0.0022632
787.107	-0.0026603	0.0023796
788.072	-0.0022784	0.002422
789.037	-0.0027194	0.0024409
790.001	-0.0017926	0.0024933
790.966	-0.0017896	0.0025476
791.93	-0.0017648	0.0026305
792.895	-0.0020308	0.0025865

WN (cm-1)	AVE (A.U.)	AD (A.U.)
793.859	-0.0006705	0.0025968
794.824	-0.0007122	0.0026963
795.788	-0.0004133	0.0027402
796.753	-0.0011994	0.0027481
797.717	-0.0014537	0.0028443
798.682	-0.0011843	0.002888
799.646	-0.0010032	0.0028899
800.611	-0.0012003	0.0029267
801.576	-0.001172	0.0029164
802.54	-0.0010243	0.0030408
803.505	-0.0006322	0.0030395
804.469	-0.0004177	0.0031178
805.434	0.0001821	0.0030554
806.398	0.0006117	0.0030659
807.363	0.000691	0.0030605
808.327	-0.0002354	0.0031122
809.292	-0.0006906	0.0031319
810.256	-0.0012482	0.0031008
811.221	-0.0011816	0.0030474
812.185	-0.000867	0.0031533
813.15	-0.0009731	0.0031294
814.115	-0.0005483	0.0032152
815.079	-0.0004467	0.0031832
816.044	5.18E-06	0.0031777
817.008	0.0005823	0.0031296
817.973	0.0001172	0.0031468
818.937	0.0003227	0.0031237
819.902	0.0007067	0.0031322
820.866	0.0003031	0.0029561
821.831	-0.0003767	0.0030073
822.795	-0.0009846	0.0030092
823.76	-0.0011707	0.0029971
824.724	-0.0004749	0.0029253
825.689	-0.0001984	0.002953
826.654	0.0001022	0.0028821
827.618	0.0008576	0.0028152
828.583	0.0002924	0.0028232
829.547	0.0001127	0.0027502
830.512	4.50E-06	0.0027479
831.476	-0.0002038	0.0026978
832.441	-0.0007574	0.0026994
833.405	-0.000987	0.0026514
834.37	-0.0012219	0.0026571
835.334	-0.0012219	0.0026336
836.299	-0.0008617	0.0025771

Methanol 4.98 Mole % 10.8 Torr MS05AV1
MS05AD1

WN (cm-1)	AVE (A.U.)	AD (A.U.)
837.263	-0.0004596	0.0025321
838.228	-0.000565	0.0024188
839.193	-0.0001428	0.0024037
840.157	0.0001246	0.0023254
841.122	-0.0001345	0.0022323
842.086	-0.0006805	0.0021712
843.051	-0.0011124	0.0021439
844.015	-0.001501	0.0021498
844.98	-0.0009815	0.0020885
845.944	-0.0010529	0.0020768
846.909	-0.0010712	0.0020812
847.873	-0.0008358	0.0019765
848.838	-0.0005305	0.0019289
849.802	-0.0004684	0.0018521
850.767	-0.0001452	0.0017694
851.732	-0.0000486	0.0017055
852.696	-0.0004714	0.0016723
853.661	-0.0008507	0.0016429
854.625	-0.0011188	0.0015147
855.59	-0.0013599	0.0015319
856.554	-0.0018071	0.0015598
857.519	-0.0018225	0.001461
858.483	-0.0013723	0.0013673
859.448	-0.0006914	0.0013805
860.412	-0.0005711	0.0013796
861.377	-0.0006637	0.0013537
862.341	-0.0001884	0.0013193
863.306	-0.0006202	0.0012958
864.271	-0.0004358	0.001264
865.235	-0.00061	0.0012503
866.2	-0.0005909	0.0012377
867.164	-0.0011767	0.0011176
868.129	-0.0016826	0.0012008
869.093	-0.0019578	0.0012352
870.058	-0.0016695	0.0012184
871.022	-0.0013477	0.0012056
871.987	-0.0003789	0.0011264
872.951	0.0001214	0.0011733
873.916	0.000271	0.001157
874.88	0.0004266	0.0011511
875.845	0.0000323	0.0011781
876.809	-0.0002519	0.0011012
877.774	-0.0008205	0.0011223
878.739	-0.0009689	0.001128
879.703	-0.0011434	0.0011671

WN (cm-1)	AVE (A.U.)	AD (A.U.)
880.668	-0.0009834	0.0012083
881.632	-0.0015125	0.0011638
882.597	-0.0010584	0.001252
883.561	-0.0008175	0.0012209
884.526	-0.0009086	0.0012474
885.49	-0.0004002	0.0012789
886.455	0.0000314	0.0012844
887.419	0.0001118	0.0012693
888.384	-0.0002346	0.0012921
889.349	-0.0005899	0.0013121
890.313	-0.0006359	0.0012936
891.278	-0.0011822	0.0012959
892.242	-0.0009273	0.0014062
893.207	-0.0012128	0.001427
894.171	-0.0006082	0.0015112
895.136	-0.0004687	0.0015566
896.1	0.0001846	0.0015697
897.065	0.000731	0.001573
898.029	0.0008546	0.0016241
898.994	0.0013814	0.0016973
899.958	0.0012558	0.001797
900.923	0.0001721	0.0017722
901.887	-0.0000158	0.0018081
902.852	-0.0005918	0.0019025
903.817	-0.0009181	0.0019187
904.781	-0.0007612	0.0019498
905.746	-0.0006626	0.0020055
906.71	-0.0001808	0.0020528
907.675	0.0003573	0.0020981
908.639	0.0008568	0.0021209
909.604	0.0007076	0.0021432
910.568	0.0009809	0.002231
911.533	0.0009628	0.0022731
912.497	0.0007255	0.0023661
913.462	0.0003449	0.0023824
914.427	-0.0001759	0.0024305
915.391	-0.0000994	0.0024365
916.356	0.000164	0.0025533
917.32	0.0000869	0.002625
918.285	0.0005241	0.0026723
919.249	0.0010373	0.0027172
920.214	0.0012105	0.0027808
921.178	0.0015376	0.0028108
922.143	0.0012784	0.0028331
923.107	0.0008349	0.0028543

Methanol 4.98 Mole % 10.8 Torr MS05AV1 MS05AD1

WN (cm-1)	AVE (A.U.)	AD (A.U.)
924.072	0.000881	0.0028674
925.037	0.0010051	0.0028916
926.001	0.0005836	0.0029595
926.965	0.0004806	0.0029669
927.93	0.0000578	0.0030231
928.895	-0.0001139	0.0030411
929.859	0.00035	0.0030663
930.824	0.000869	0.003125
931.788	0.001173	0.0031352
932.753	0.001864	0.0031027
933.717	0.0017973	0.0031526
934.682	0.0014895	0.0031548
935.646	0.0009567	0.0031192
936.611	0.0007074	0.0031448
937.575	0.0008249	0.0031575
938.54	0.0006798	0.0031687
939.505	0.0008625	0.0031507
940.469	0.0004693	0.0031819
941.434	0.0009005	0.0031807
942.398	0.000685	0.0031818
943.363	0.0011875	0.0031506
944.327	0.001733	0.0031321
945.292	0.0012572	0.0031431
946.256	0.0018843	0.0030998
947.221	0.0018198	0.0031023
948.185	0.0014911	0.0031477
949.15	0.0010763	0.0030481
950.115	0.0010012	0.0030338
951.079	0.0020925	0.0029706
952.044	0.0011926	0.0029818
953.008	0.0018819	0.0029578
953.973	0.0026654	0.002888
954.937	0.0029523	0.0029214
955.902	0.0042549	0.0028913
956.866	0.0032017	0.0028469
957.831	0.0049551	0.0027937
958.795	0.0047904	0.0027551
959.76	0.0057623	0.0027828
960.724	0.006591	0.0026923
961.689	0.005534	0.0026456
962.653	0.0079905	0.0026254
963.618	0.0063729	0.0026101
964.583	0.0092548	0.0026021
965.547	0.009114	0.0025036
966.512	0.0107262	0.0025215

WN (cm-1)	AVE (A.U.)	AD (A.U.)
967.476	0.0141326	0.0024371
968.441	0.0144584	0.002408
969.405	0.0188322	0.0023067
970.37	0.0151254	0.0023129
971.334	0.0219246	0.0022727
972.299	0.0191592	0.0021886
973.263	0.0244461	0.0021529
974.228	0.0255143	0.0021617
975.192	0.0262056	0.002106
976.157	0.034289	0.0020433
977.122	0.0294714	0.0020435
978.086	0.0446194	0.0020198
979.051	0.0344252	0.0020062
980.015	0.0550966	0.0019371
980.98	0.0415968	0.0018865
981.944	0.0612758	0.0018533
982.909	0.0520547	0.0018743
983.873	0.0670631	0.0018365
984.838	0.0646266	0.0018501
985.802	0.0718843	0.0018058
986.767	0.0813354	0.0017937
987.731	0.0793548	0.0017137
988.696	0.0989076	0.0017572
989.661	0.0878083	0.0015973
990.625	0.116958	0.0016412
991.59	0.0981385	0.0016172
992.554	0.134692	0.0015512
993.519	0.109992	0.0015324
994.483	0.151464	0.0014804
995.448	0.123097	0.0014946
996.412	0.165516	0.0014572
997.377	0.137711	0.0014954
998.341	0.180666	0.0014186
999.306	0.153657	0.0015419
1000.27	0.197255	0.001367
1001.23	0.169538	0.0015926
1002.2	0.215033	0.001244
1003.16	0.183738	0.0015494
1004.12	0.234201	0.0013207
1005.09	0.193817	0.0015346
1006.05	0.248908	0.0011649
1007.02	0.20316	0.0015647
1007.98	0.261999	0.0012964
1008.95	0.20842	0.0014696
1009.91	0.271082	0.0012317

Methanol 4.98 Mole % 10.8 Torr MS05AV1
MS05AD1

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1010.88	0.211725	0.0014148
1011.84	0.278046	0.0014637
1012.8	0.215674	0.0013309
1013.77	0.27484	0.0015288
1014.73	0.219703	0.0012338
1015.7	0.267856	0.0016716
1016.66	0.224785	0.0011193
1017.63	0.251524	0.001796
1018.59	0.224732	0.0010919
1019.56	0.213499	0.0018387
1020.52	0.218686	0.0012367
1021.49	0.181084	0.0016771
1022.45	0.195648	0.0014481
1023.41	0.148053	0.0014781
1024.38	0.167932	0.0017501
1025.34	0.134003	0.0016221
1026.31	0.131057	0.0020534
1027.27	0.133231	0.0018322
1028.24	0.117453	0.0018792
1029.2	0.134314	0.0015316
1030.17	0.160973	0.0009875
1031.13	0.248055	0.0006996
1032.1	0.40978	0.0012356
1033.06	0.736109	0.0023823
1034.02	0.645674	0.003118
1034.99	0.176472	0.00314
1035.95	0.11208	0.0030515
1036.92	0.100258	0.002581
1037.88	0.0925074	0.0021282
1038.85	0.103984	0.0020837
1039.81	0.107722	0.0019893
1040.78	0.126703	0.0022946
1041.74	0.154276	0.0022847
1042.7	0.15999	0.0023634
1043.67	0.194469	0.0024775
1044.63	0.207997	0.0023314
1045.6	0.223237	0.0025906
1046.56	0.264442	0.0024909
1047.53	0.269445	0.0022213
1048.49	0.28383	0.0026562
1049.46	0.319438	0.0026146
1050.42	0.317833	0.0024757
1051.39	0.328162	0.0027731
1052.35	0.357115	0.0026506
1053.31	0.348392	0.0024789

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1054.28	0.345023	0.0027662
1055.24	0.36628	0.0027131
1056.21	0.359681	0.0025411
1057.17	0.344068	0.0026862
1058.14	0.345717	0.0029171
1059.1	0.342131	0.0028416
1060.07	0.328164	0.0026886
1061.03	0.31169	0.0027812
1061.99	0.30052	0.0028283
1062.96	0.286506	0.0027501
1063.92	0.268608	0.0026277
1064.89	0.249987	0.0027936
1065.85	0.230133	0.0027222
1066.82	0.211506	0.0027445
1067.78	0.195683	0.0027881
1068.75	0.179737	0.0027453
1069.71	0.159241	0.0027111
1070.67	0.141459	0.0027229
1071.64	0.127378	0.0027691
1072.6	0.113389	0.0027146
1073.57	0.100669	0.0026875
1074.53	0.0879588	0.0027083
1075.5	0.0734825	0.0027068
1076.46	0.0626646	0.002657
1077.43	0.0529965	0.0026209
1078.39	0.0447676	0.002668
1079.36	0.0382135	0.0026919
1080.32	0.0333077	0.0026435
1081.28	0.0276366	0.0025724
1082.25	0.023461	0.0025676
1083.21	0.0201012	0.0025396
1084.18	0.0168617	0.0025394
1085.14	0.0150739	0.0025099
1086.11	0.0134251	0.0025123
1087.07	0.0123155	0.0024638
1088.04	0.0108552	0.0024557
1089	0.0109597	0.0024214
1089.96	0.0097823	0.002379
1090.93	0.0092232	0.0023215
1091.89	0.0095908	0.0022933
1092.86	0.0098929	0.0022491
1093.82	0.0108969	0.0022091
1094.79	0.0088121	0.0021607
1095.75	0.0074941	0.0021422
1096.72	0.0075609	0.0021296

Methanol 4.98 Mole % 10.8 Torr MS05AV1 MS05AD1

WN (cm-1)	AVE (A.U.)	AD (A.U.)	WN (cm-1)	AVE (A.U.)	AD (A.U.)
1097.68	0.0082025	0.002048	1141.08	0.0034143	0.0013198
1098.64	0.0068374	0.0019647	1142.05	0.0036503	0.0013082
1099.61	0.0066175	0.0019109	1143.01	0.0018326	0.0013312
1100.57	0.0069423	0.0019244	1143.98	0.002354	0.0013512
1101.54	0.0064417	0.0018626	1144.94	0.0022722	0.0014475
1102.5	0.0064533	0.0018427	1145.9	0.001735	0.0014551
1103.47	0.0059094	0.0018061	1146.87	0.0016002	0.0014406
1104.43	0.0057144	0.0017254	1147.83	0.0021272	0.0015224
1105.4	0.0059358	0.0017373	1148.8	0.0021271	0.0015233
1106.36	0.0063215	0.0017057	1149.76	0.0022656	0.0015622
1107.32	0.0056157	0.0016725	1150.73	0.0015905	0.0015844
1108.29	0.0055044	0.0015979	1151.69	0.0016563	0.0016161
1109.25	0.0048794	0.0015913	1152.66	0.0021017	0.0016697
1110.22	0.0047925	0.0016038	1153.62	0.0014258	0.0016952
1111.18	0.0051988	0.0015562	1154.58	0.0013507	0.0017743
1112.15	0.0057819	0.0015289	1155.55	0.0009759	0.0018522
1113.11	0.0052972	0.0015513	1156.51	0.0015003	0.0018897
1114.08	0.0071638	0.0014563	1157.48	0.0023138	0.0019753
1115.04	0.0066534	0.0014092	1158.44	0.0018447	0.0019679
1116.01	0.0042657	0.001386	1159.41	0.0022747	0.0019947
1116.97	0.0038949	0.0013945	1160.37	0.002529	0.00205
1117.93	0.0032714	0.0014003	1161.34	0.0022111	0.0021639
1118.9	0.0031499	0.0013179	1162.3	0.0023471	0.0021787
1119.86	0.0032105	0.0013073	1163.26	0.0025323	0.0022218
1120.83	0.0035236	0.001308	1164.23	0.0032024	0.0022909
1121.79	0.00344	0.0012862	1165.19	0.0030307	0.0023453
1122.76	0.0036417	0.0012597	1166.16	0.0021306	0.0024123
1123.72	0.0037123	0.0012403	1167.12	0.0016511	0.0024294
1124.69	0.0038135	0.0012356	1168.09	0.0019251	0.0024723
1125.65	0.0030625	0.0012108	1169.05	0.0015195	0.0025269
1126.61	0.0027754	0.0012455	1170.02	0.0020969	0.0026241
1127.58	0.002684	0.0012203	1170.98	0.0020565	0.0026524
1128.54	0.0024204	0.0011931	1171.94	0.0021804	0.0026507
1129.51	0.0028441	0.0011667	1172.91	0.0025202	0.0027096
1130.47	0.0022038	0.0011945	1173.87	0.0031005	0.0028337
1131.44	0.0022543	0.0012311	1174.84	0.0038959	0.0028107
1132.4	0.0021148	0.0012314	1175.8	0.0031757	0.002824
1133.37	0.0018624	0.0011882	1176.77	0.0035635	0.0028825
1134.33	0.0029825	0.0012349	1177.73	0.0032175	0.0029287
1135.29	0.0042905	0.00123	1178.7	0.0032778	0.002995
1136.26	0.0042484	0.0012096	1179.66	0.0033496	0.0030505
1137.22	0.0030054	0.0012234	1180.63	0.0037773	0.0029797
1138.19	0.0026985	0.0012411	1181.59	0.0040077	0.0030511
1139.15	0.0023413	0.0012276	1182.55	0.0046306	0.0031032
1140.12	0.0024291	0.0012671	1183.52	0.0050092	0.0031636

Methanol 4.98 Mole % 10.8 Torr MS05AV1 MS05AD1

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1184.48	0.0054314	0.0031974
1185.45	0.0056348	0.0031269
1186.41	0.0057534	0.0031019
1187.38	0.0067051	0.0031488
1188.34	0.0062043	0.0031434
1189.31	0.0059781	0.0032101
1190.27	0.0062244	0.003191
1191.23	0.0061947	0.0032082
1192.2	0.0069992	0.0032094
1193.16	0.0067713	0.0031736
1194.13	0.0073615	0.0031903
1195.09	0.0081742	0.003193
1196.06	0.008102	0.0032094
1197.02	0.0088424	0.0031365
1197.99	0.0091728	0.0031531
1198.95	0.0093059	0.0031147
1199.91	0.0089318	0.0030968
1200.88	0.0094417	0.0030902
1201.84	0.0099429	0.0030715
1202.81	0.0108723	0.0030437
1203.77	0.0095638	0.0029759
1204.74	0.0101074	0.0029763
1205.7	0.0099217	0.0029731
1206.67	0.0103723	0.0029824
1207.63	0.0114793	0.0029102
1208.6	0.0116507	0.0028485
1209.56	0.0115132	0.0027198
1210.52	0.0107743	0.0027661
1211.49	0.0126266	0.0027556
1212.45	0.0138012	0.0026622
1213.42	0.0132312	0.0026606
1214.38	0.0142407	0.0025648
1215.35	0.0117026	0.0025231
1216.31	0.011404	0.0024915
1217.28	0.0106138	0.0025077
1218.24	0.0111486	0.0024002
1219.2	0.0108918	0.0023304
1220.17	0.011133	0.0022383
1221.13	0.011132	0.0022016
1222.1	0.0108743	0.0021587
1223.06	0.0116254	0.0021481
1224.03	0.0116015	0.0021156
1224.99	0.0140527	0.0020434
1225.96	0.0129563	0.0019899
1226.92	0.0111903	0.0019823

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1227.88	0.0121153	0.0019555
1228.85	0.0119505	0.0018874
1229.81	0.0091981	0.0018336
1230.78	0.009423	0.0017895
1231.74	0.0097184	0.0017759
1232.71	0.0126486	0.001755
1233.67	0.0126802	0.0016591
1234.64	0.0098093	0.0016554
1235.6	0.0093247	0.0016346
1236.57	0.0096857	0.0015383
1237.53	0.0102375	0.0015536
1238.49	0.0125355	0.0015366
1239.46	0.0140365	0.0015209
1240.42	0.0133236	0.0014423
1241.39	0.0113817	0.0014204
1242.35	0.0111724	0.0014126
1243.32	0.0117363	0.0014626
1244.28	0.0116201	0.0013934
1245.25	0.0105331	0.001356
1246.21	0.0106883	0.0013443
1247.17	0.0107357	0.0012785
1248.14	0.0115964	0.0012842
1249.1	0.0129929	0.0013043
1250.07	0.0124745	0.0013367
1251.03	0.0119155	0.0013296
1252	0.0116069	0.0012573
1252.96	0.0117953	0.001311
1253.93	0.0122529	0.0013511
1254.89	0.0124441	0.0012845
1255.85	0.0128308	0.0012848
1256.82	0.0136564	0.0013195
1257.78	0.0138354	0.0013407
1258.75	0.0136359	0.0012914
1259.71	0.0135498	0.0012685
1260.68	0.0149573	0.0012985
1261.64	0.013163	0.0012717
1262.61	0.0132135	0.0013667
1263.57	0.012946	0.0012474
1264.53	0.0131061	0.0013164
1265.5	0.0135363	0.0013627
1266.46	0.0130681	0.0013484
1267.43	0.0135878	0.0013982
1268.39	0.0137651	0.0014158
1269.36	0.0147186	0.0014205
1270.32	0.0143922	0.0015305

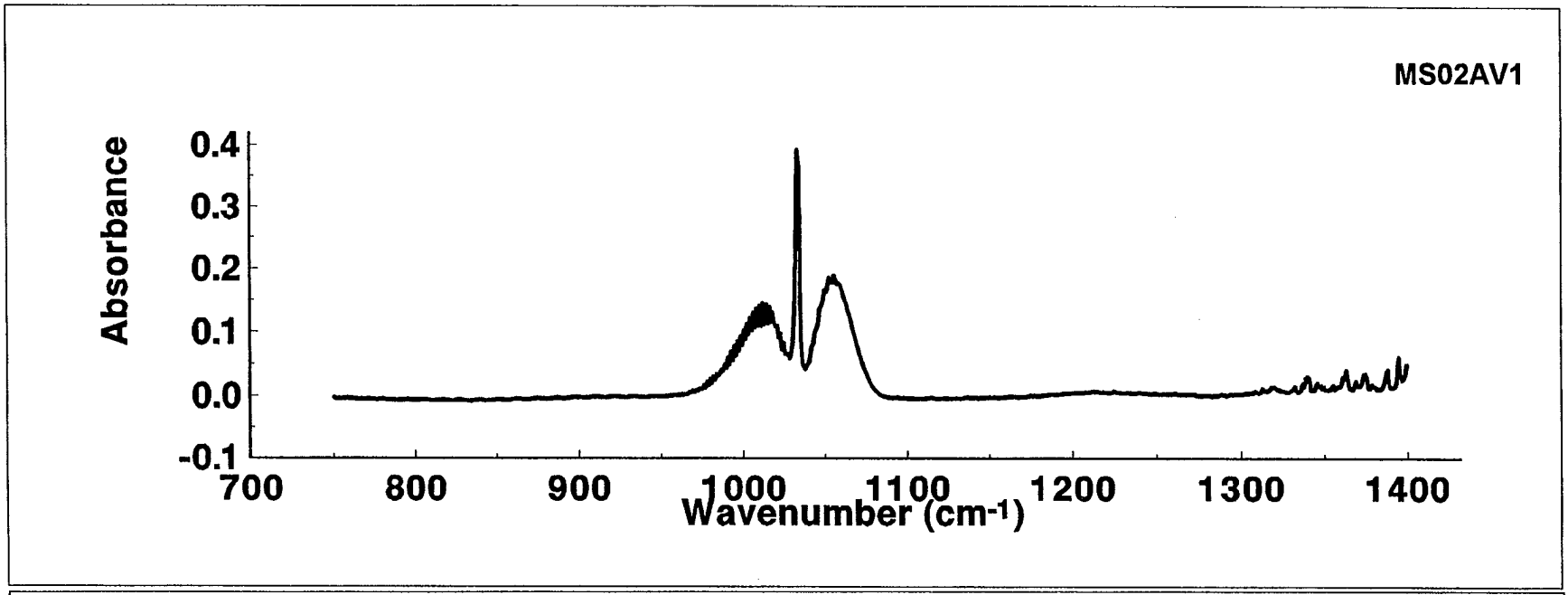
Methanol 4.98 Mole % 10.8 Torr MS05AV1
MS05AD1

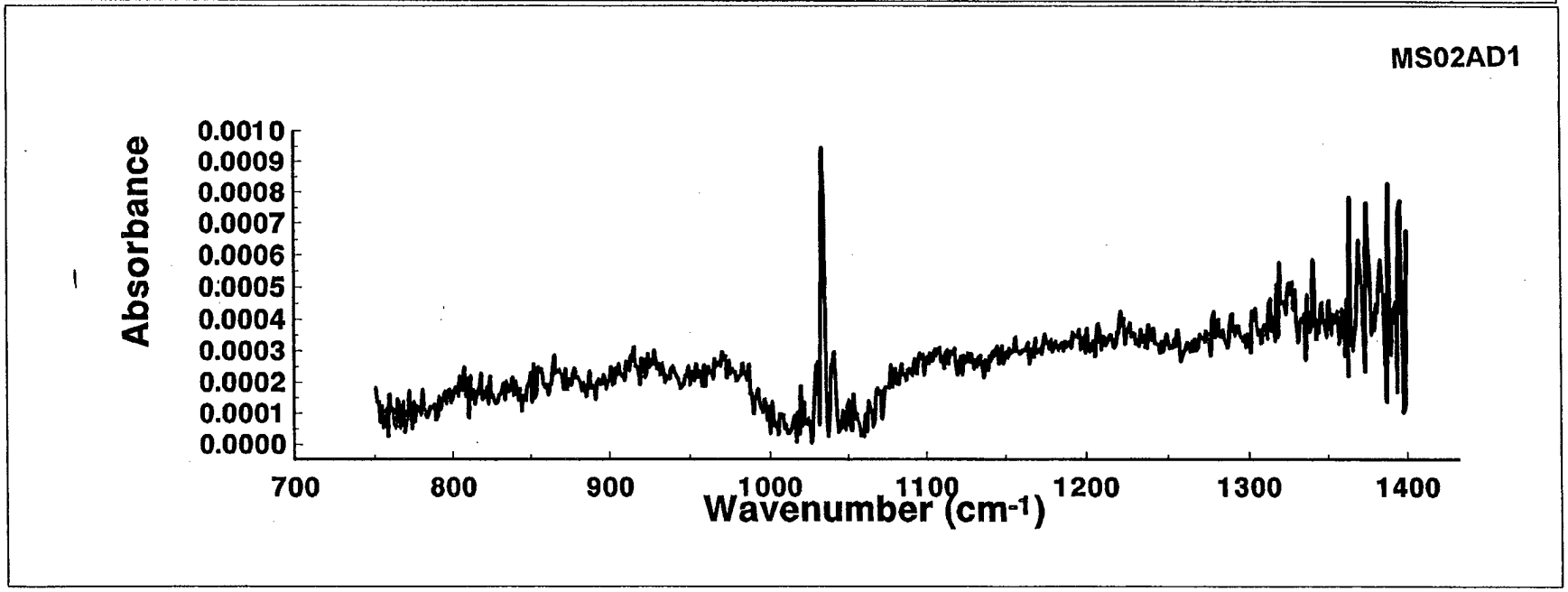
WN (cm-1)	AVE (A.U.)	AD (A.U.)
1271.29	0.0142617	0.0014516
1272.25	0.015178	0.0014818
1273.22	0.0128601	0.0014924
1274.18	0.0122899	0.0015676
1275.14	0.0127591	0.0015777
1276.11	0.0120454	0.0015914
1277.07	0.0131271	0.0016584
1278.04	0.0121386	0.0017365
1279	0.0129288	0.001801
1279.97	0.0134623	0.0017792
1280.93	0.012898	0.0018526
1281.9	0.0137267	0.0018527
1282.86	0.013356	0.0019518
1283.82	0.0145937	0.001949
1284.79	0.0140689	0.0019927
1285.75	0.0137525	0.0020751
1286.72	0.0144503	0.002132
1287.68	0.0159921	0.0021437
1288.65	0.0162688	0.0021874
1289.61	0.0160414	0.0022933
1290.58	0.0164336	0.0023335
1291.54	0.0157425	0.0023841
1292.5	0.0178805	0.0024044
1293.47	0.0201761	0.0024361
1294.43	0.0196646	0.002469
1295.4	0.0189782	0.0025244
1296.36	0.020579	0.0025762
1297.33	0.0199248	0.0027032
1298.29	0.0198898	0.002696
1299.26	0.0207703	0.0027163
1300.22	0.0206923	0.002739
1301.18	0.0218344	0.0028
1302.15	0.0226461	0.0029161
1303.11	0.0232156	0.0029969
1304.08	0.0232047	0.0029675
1305.04	0.0230251	0.0030464
1306.01	0.0256973	0.0030176
1306.97	0.0240041	0.0030345
1307.94	0.0278858	0.0031556
1308.9	0.0284631	0.0031744
1309.87	0.0265558	0.0032024
1310.83	0.025492	0.0031969
1311.79	0.0274155	0.0031955
1312.76	0.0314	0.0032132
1313.72	0.0283545	0.0031966

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1314.69	0.0286143	0.0031999
1315.65	0.0293842	0.0032924
1316.62	0.0306923	0.0031845
1317.58	0.0369576	0.0033083
1318.55	0.0385212	0.0031561
1319.51	0.0374224	0.0032217
1320.47	0.0394731	0.0032523
1321.44	0.0365482	0.0032022
1322.4	0.0358089	0.0032401
1323.37	0.0324146	0.0032412
1324.33	0.0328831	0.0032039
1325.3	0.0306047	0.0031852
1326.26	0.0309375	0.0032089
1327.23	0.0291699	0.0031794
1328.19	0.0283647	0.0031571
1329.15	0.0302438	0.0030982
1330.12	0.031665	0.0031585
1331.08	0.0376257	0.0032272
1332.05	0.0438319	0.0030692
1333.01	0.0304069	0.0030315
1333.98	0.0270563	0.0031272
1334.94	0.0277587	0.0031395
1335.91	0.0299494	0.0030899
1336.87	0.0395254	0.0027483
1337.84	0.0368502	0.0029191
1338.8	0.0505322	0.0029794
1339.76	0.0557941	0.0026452
1340.73	0.0508463	0.0024532
1341.69	0.0312004	0.002609
1342.66	0.03131	0.0026329
1343.62	0.0326142	0.0025145
1344.59	0.0416649	0.0025375
1345.55	0.0507864	0.0024072
1346.52	0.0425143	0.0023333
1347.48	0.0435628	0.0023845
1348.44	0.0345592	0.0023891
1349.41	0.0364171	0.0022946
1350.37	0.0308102	0.0021
1351.34	0.0295766	0.0022407
1352.3	0.0303754	0.0021179
1353.27	0.0312555	0.0020838
1354.23	0.0355772	0.0020774
1355.2	0.0379252	0.0019685
1356.16	0.0319594	0.0020634
1357.12	0.0359857	0.0021363

Methanol 4.98 Mole % 10.8 Torr MS05AV1
MS05AD1

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1358.09	0.0366122	0.0019128
1359.05	0.0358297	0.001886
1360.02	0.0397531	0.0019608
1360.98	0.0525589	0.0016085
1361.95	0.0462255	0.0019361
1362.91	0.0606871	0.0014784
1363.88	0.0447974	0.0012935
1364.84	0.0317994	0.0014799
1365.8	0.0296888	0.0016473
1366.77	0.0297145	0.0013778
1367.73	0.032146	0.0015364
1368.7	0.0414943	0.0013279
1369.66	0.0335194	0.001272
1370.63	0.0370208	0.0011753
1371.59	0.0362114	0.0011001
1372.56	0.0405739	0.0014175
1373.52	0.0527264	0.0013156
1374.49	0.0514207	0.0012386
1375.45	0.0459479	0.0010307
1376.41	0.0298609	0.001017
1377.38	0.0296732	0.0011143
1378.34	0.0341325	0.0010453
1379.31	0.0320661	0.0009947
1380.27	0.0313772	0.001003
1381.24	0.0260565	0.0010978
1382.2	0.0260077	0.0011636
1383.17	0.0256979	0.0010804
1384.13	0.0259591	0.0010083
1385.09	0.0297042	0.0009612
1386.06	0.0357075	0.0013093
1387.02	0.050911	0.0011223
1387.99	0.0555395	0.0011811
1388.95	0.0307492	0.001239
1389.92	0.0270388	0.0017006
1390.88	0.0268693	0.0012558
1391.85	0.0279476	0.0009932
1392.81	0.03031	0.0012206
1393.77	0.0436355	0.0013028
1394.74	0.0747558	0.0011875
1395.7	0.0517442	0.0007044
1396.67	0.0377532	0.0015185
1397.63	0.0421312	0.0015544
1398.6	0.0489251	0.0014762
1399.56	0.0627879	0.0013682


MS02AV1
Absorbance
0.4
0.3
0.2
0.1
0.0
-0.1
700
800
900
1000
1100
1200
1300
1400
Wavenumber (cm-1)


MS02AD1
Absorbance
0.0010
0.0009
0.0008
0.0007
0.0006
0.0005
0.0004
0.0003
0.0002
0.0001
0.0000
700
800
900
1000
1100
1200
1300
1400
Wavenumber (cm-1)

Methanol 2.52 Mole % 5.8 Torr MS02AV1
MS02AD1

WN (cm-1)	AVE (A.U.)	AD (A.U.)	WN (cm-1)	AVE (A.U.)	AD (A.U.)
750.455	-0.0034903	0.0001798	793.859	-0.0065885	0.0001504
751.42	-0.0044324	0.0001359	794.824	-0.0066796	0.0001677
752.384	-0.0046909	0.0001365	795.788	-0.0062968	0.0001324
753.349	-0.004584	0.0000716	796.753	-0.007303	0.0001698
754.313	-0.004838	0.0001242	797.717	-0.0075756	0.0001744
755.278	-0.0049559	0.0000549	798.682	-0.0074255	0.0001346
756.242	-0.0045782	0.0000886	799.646	-0.00723	0.0001452
757.207	-0.0050293	0.0001134	800.611	-0.0075082	0.0001691
758.171	-0.0037824	0.0000271	801.576	-0.0071352	0.0001817
759.136	-0.0043111	0.000159	802.54	-0.0072536	0.0001722
760.1	-0.004565	0.0001173	803.505	-0.0072689	0.0001553
761.065	-0.0042987	0.0001145	804.469	-0.0069695	0.000217
762.029	-0.0047437	0.0000621	805.434	-0.0068226	0.0001731
762.994	-0.0054771	0.0000538	806.398	-0.0067158	0.0001726
763.959	-0.0057832	0.0001434	807.363	-0.0067409	0.0002443
764.923	-0.0057959	0.0001376	808.327	-0.0073505	0.0001549
765.888	-0.0061681	0.0000523	809.292	-0.0081329	0.0002102
766.852	-0.0057141	0.0001031	810.256	-0.008472	0.0000868
767.817	-0.0057428	0.0001368	811.221	-0.0083755	0.0002166
768.781	-0.0058836	0.0000408	812.185	-0.0079175	0.000147
769.746	-0.0062451	0.000062	813.15	-0.0080427	0.0001742
770.71	-0.005195	0.0000934	814.115	-0.0076957	0.0001303
771.675	-0.0055437	0.0001684	815.079	-0.0076045	0.0001579
772.639	-0.0057724	0.0000907	816.044	-0.0072252	0.0001758
773.604	-0.0061365	0.0000517	817.008	-0.0072231	0.0001641
774.568	-0.0063932	0.0001362	817.973	-0.0073248	0.000225
775.533	-0.0064079	0.0000735	818.937	-0.0073457	0.0001452
776.498	-0.0065019	0.0001227	819.902	-0.0074379	0.0001498
777.462	-0.0059766	0.0001196	820.866	-0.007997	0.0001633
778.427	-0.0062	0.0001074	821.831	-0.0082433	0.0001843
779.391	-0.0061701	0.0000955	822.795	-0.0085593	0.0001326
780.356	-0.0056206	0.0001727	823.76	-0.008673	0.000216
781.32	-0.005908	0.0001301	824.724	-0.0078503	0.0001524
782.285	-0.0064647	0.0000927	825.689	-0.0075306	0.0001577
783.249	-0.0068343	0.000087	826.654	-0.0072014	0.0001365
784.214	-0.0071245	0.0000935	827.618	-0.0070811	0.0001327
785.178	-0.0071823	0.0001202	828.583	-0.0074014	0.0001359
786.143	-0.0070577	0.0001148	829.547	-0.0076663	0.0001579
787.107	-0.0074922	0.000121	830.512	-0.0078743	0.00016
788.072	-0.0076358	0.000128	831.476	-0.0082572	0.0001695
789.037	-0.0078381	0.0000804	832.441	-0.008662	0.0001947
790.001	-0.0071997	0.0000892	833.405	-0.0088066	0.0001453
790.966	-0.0073352	0.0001508	834.37	-0.0089607	0.0002001
791.93	-0.0074037	0.0001133	835.334	-0.0086582	0.0001868
792.895	-0.0075295	0.0001327	836.299	-0.00819	0.0001697

Methanol 2.52 Mole % 5.8 Torr MS02AV1 MS02AD1

WN (cm-1)	AVE (A.U.)	AD (A.U.)
837.263	-0.0077984	0.0001828
838.228	-0.0079883	0.0002114
839.193	-0.0073309	0.0001595
840.157	-0.0068492	0.0001997
841.122	-0.0074067	0.0001721
842.086	-0.007867	0.0001433
843.051	-0.0083358	0.0001771
844.015	-0.0083871	0.0001104
844.98	-0.0082481	0.0001568
845.944	-0.0082224	0.0001528
846.909	-0.0080426	0.0001417
847.873	-0.0077857	0.0001901
848.838	-0.0073261	0.0001921
849.802	-0.0068913	0.0002276
850.767	-0.0065633	0.0001373
851.732	-0.0065642	0.000256
852.696	-0.0068776	0.0001512
853.661	-0.0074096	0.0001687
854.625	-0.0074691	0.0002471
855.59	-0.0076314	0.0002356
856.554	-0.0079637	0.0002414
857.519	-0.0081133	0.0002177
858.483	-0.0074871	0.0001901
859.448	-0.0068282	0.0001814
860.412	-0.0064205	0.0001912
861.377	-0.0061755	0.0001619
862.341	-0.005727	0.0001913
863.306	-0.005953	0.0001946
864.271	-0.0059902	0.0002422
865.235	-0.0060809	0.0002824
866.2	-0.0062439	0.0002286
867.164	-0.0064959	0.0002339
868.129	-0.0069898	0.0002385
869.093	-0.0068858	0.000225
870.058	-0.0067112	0.0002159
871.022	-0.0062799	0.0001788
871.987	-0.0055396	0.000239
872.951	-0.0048022	0.0001773
873.916	-0.0045414	0.0002094
874.88	-0.0042839	0.0001944
875.845	-0.004569	0.0001902
876.809	-0.0049925	0.0002235
877.774	-0.0053441	0.0002417
878.739	-0.0055556	0.0002148
879.703	-0.0056039	0.000215

WN (cm-1)	AVE (A.U.)	AD (A.U.)
880.668	-0.0054662	0.0002059
881.632	-0.0056048	0.000198
882.597	-0.005266	0.0001752
883.561	-0.004648	0.000197
884.526	-0.004689	0.0001705
885.49	-0.0039719	0.0001554
886.455	-0.0036519	0.0001881
887.419	-0.0036216	0.0002311
888.384	-0.0039976	0.0001813
889.349	-0.0043618	0.000189
890.313	-0.0044059	0.000186
891.278	-0.0046218	0.0001473
892.242	-0.0046629	0.0002012
893.207	-0.0046131	0.0002079
894.171	-0.0040412	0.0001932
895.136	-0.0038915	0.0001944
896.1	-0.0033304	0.0002216
897.065	-0.0028023	0.0002126
898.029	-0.0026215	0.0001801
898.994	-0.0023428	0.0002046
899.958	-0.0023103	0.0002029
900.923	-0.0030978	0.0002468
901.887	-0.003376	0.0001919
902.852	-0.0037409	0.0001957
903.817	-0.0039692	0.0002428
904.781	-0.0038067	0.0002232
905.746	-0.0037197	0.0002554
906.71	-0.003171	0.0002355
907.675	-0.0026251	0.0002189
908.639	-0.0022581	0.0002183
909.604	-0.0024298	0.0002073
910.568	-0.0022505	0.0002638
911.533	-0.0021578	0.0002596
912.497	-0.0023941	0.0002369
913.462	-0.0026854	0.000283
914.427	-0.0033045	0.0002677
915.391	-0.0033367	0.0003084
916.356	-0.0030751	0.0002489
917.32	-0.0029919	0.00025
918.285	-0.0027395	0.0002288
919.249	-0.0020287	0.0001939
920.214	-0.0018264	0.0002745
921.178	-0.0013654	0.0002716
922.143	-0.0015127	0.0002166
923.107	-0.0020275	0.0002378

Methanol 2.52 Mole % 5.8 Torr MS02AV1
MS02AD1

WN (cm-1)	AVE (A.U.)	AD (A.U.)
924.072	-0.0021618	0.0002883
925.037	-0.0023364	0.0002483
926.001	-0.0027544	0.0002661
926.965	-0.00267	0.000256
927.93	-0.0030806	0.0002996
928.895	-0.0030743	0.0002663
929.859	-0.002722	0.0002426
930.824	-0.0021909	0.0002577
931.788	-0.001808	0.0002253
932.753	-0.0014257	0.0002569
933.717	-0.0014589	0.0002369
934.682	-0.0015451	0.0002014
935.646	-0.002078	0.0002194
936.611	-0.0025017	0.0002115
937.575	-0.0025856	0.0002131
938.54	-0.0026379	0.0002434
939.505	-0.002659	0.0002475
940.469	-0.0029486	0.0002331
941.434	-0.0025731	0.0002212
942.398	-0.0023669	0.0002146
943.363	-0.0019701	0.0002039
944.327	-0.0014774	0.0001802
945.292	-0.0018175	0.0001878
946.256	-0.0011944	0.0001899
947.221	-0.0013086	0.0002207
948.185	-0.0015264	0.0002215
949.15	-0.0020311	0.0002477
950.115	-0.0022689	0.0001923
951.079	-0.0016572	0.0002339
952.044	-0.00216	0.0002253
953.008	-0.0018236	0.0002062
953.973	-0.0010496	0.0002562
954.937	-0.0007695	0.0002149
955.902	-0.0002206	0.0002355
956.866	-0.0007033	0.0002165
957.831	0.0001657	0.0001884
958.795	0.00026	0.0002522
959.76	0.0004891	0.0001879
960.724	0.000714	0.000248
961.689	0.0000245	0.0002489
962.653	0.0013952	0.0002289
963.618	0.0007413	0.0002318
964.583	0.0021671	0.0002126
965.547	0.0022298	0.0002721
966.512	0.0030979	0.0002492

WN (cm-1)	AVE (A.U.)	AD (A.U.)
967.476	0.0051604	0.0002557
968.441	0.0054317	0.000263
969.405	0.0076598	0.0002515
970.37	0.0057314	0.0002944
971.334	0.0089785	0.0002744
972.299	0.0075324	0.0002811
973.263	0.0098354	0.0002159
974.228	0.0107411	0.000266
975.192	0.0106771	0.0002276
976.157	0.0153843	0.0002409
977.122	0.0125981	0.0002321
978.086	0.0208986	0.0002319
979.051	0.0157347	0.0002046
980.015	0.0264091	0.0002115
980.98	0.0199527	0.0002203
981.944	0.0296811	0.0002244
982.909	0.0254628	0.0002571
983.873	0.0325048	0.0002302
984.838	0.0317335	0.0002178
985.802	0.0345168	0.000207
986.767	0.0403244	0.0002532
987.731	0.0386537	0.0001637
988.696	0.0495785	0.0001635
989.661	0.0433315	0.0001008
990.625	0.0592279	0.0001407
991.59	0.0494696	0.0001602
992.554	0.0687434	0.0001751
993.519	0.0559317	0.0001331
994.483	0.077508	0.0001147
995.448	0.0629863	0.0001041
996.412	0.0844036	0.0001427
997.377	0.0706339	0.0001342
998.341	0.0924874	0.0000784
999.306	0.0795449	0.0001219
1000.27	0.101176	0.0000369
1001.23	0.0882541	0.0001342
1002.2	0.110731	0.0000922
1003.16	0.096267	0.000057
1004.12	0.121056	0.0000671
1005.09	0.102075	0.0000323
1006.05	0.128828	0.0000968
1007.02	0.106845	0.0000942
1007.98	0.13575	0.0000946
1008.95	0.109054	0.0000509
1009.91	0.140311	0.0000621

Methanol 2.52 Mole % 5.8 Torr MS02AV1 MS02AD1

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1010.88	0.109972	0.0000366
1011.84	0.143711	0.0000352
1012.8	0.111513	0.0000402
1013.77	0.1422	0.0000537
1014.73	0.112871	0.0000706
1015.7	0.138747	0.0000915
1016.66	0.114407	8.56E-06
1017.63	0.129848	0.0001041
1018.59	0.11359	0.000032
1019.56	0.109474	0.0001846
1020.52	0.109477	0.0000582
1021.49	0.091026	0.0001351
1022.45	0.0970272	0.0000686
1023.41	0.0726904	0.0000629
1024.38	0.0829394	0.000083
1025.34	0.0654553	0.0000597
1026.31	0.0651764	5.28E-06
1027.27	0.0663676	0.0000624
1028.24	0.0595926	0.000169
1029.2	0.0686512	0.0002524
1030.17	0.0837803	0.0002626
1031.13	0.131092	0.0000651
1032.1	0.218294	0.000371
1033.06	0.391112	0.0009429
1034.02	0.363518	0.0007921
1034.99	0.0909424	0.0005131
1035.95	0.0515276	0.000087
1036.92	0.0460771	0.0000272
1037.88	0.0420206	0.0000856
1038.85	0.0488587	0.0002554
1039.81	0.0512086	0.0002345
1040.78	0.06229	0.0002948
1041.74	0.07704	0.0001839
1042.7	0.0805972	0.0000966
1043.67	0.0990216	0.0000404
1044.63	0.105876	0.0000519
1045.6	0.114685	0.0000516
1046.56	0.136198	0.0001076
1047.53	0.138433	0.000103
1048.49	0.146857	0.0000474
1049.46	0.165013	0.0001234
1050.42	0.163244	0.0001394
1051.39	0.1699	0.0000493
1052.35	0.184438	0.0000458
1053.31	0.178697	0.0001597

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1054.28	0.177461	0.0000805
1055.24	0.188279	0.0000983
1056.21	0.183474	0.0000735
1057.17	0.174815	0.0000647
1058.14	0.175577	0.0000284
1059.1	0.172574	0.00004
1060.07	0.164675	0.000026
1061.03	0.155583	0.0000952
1061.99	0.149533	0.0000425
1062.96	0.141598	0.0001376
1063.92	0.132123	0.0001258
1064.89	0.122278	0.0001089
1065.85	0.111757	0.0000586
1066.82	0.101705	0.0000754
1067.78	0.093329	0.0001535
1068.75	0.0846352	0.0001785
1069.71	0.0738025	0.0001616
1070.67	0.0644504	0.0001717
1071.64	0.0571574	0.0000839
1072.6	0.0497967	0.0001528
1073.57	0.0435606	0.0001811
1074.53	0.0371075	0.000184
1075.5	0.0296081	0.0001828
1076.46	0.0239751	0.000182
1077.43	0.0190206	0.000251
1078.39	0.0146443	0.0001842
1079.36	0.0112232	0.0002138
1080.32	0.0087863	0.0002415
1081.28	0.0056232	0.0001949
1082.25	0.0034704	0.0001937
1083.21	0.0015778	0.0002374
1084.18	0.0001033	0.0002545
1085.14	-0.0008105	0.0002238
1086.11	-0.001606	0.0002233
1087.07	-0.0018264	0.0002071
1088.04	-0.0024665	0.0002368
1089	-0.0023281	0.0002405
1089.96	-0.0030326	0.000228
1090.93	-0.0036387	0.0002227
1091.89	-0.0034114	0.0002487
1092.86	-0.003186	0.0002724
1093.82	-0.0025222	0.0002282
1094.79	-0.0037799	0.0002618
1095.75	-0.0045329	0.0002897
1096.72	-0.0044403	0.0002758

Methanol 2.52 Mole % 5.8 Torr MS02AV1
MS02AD1

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1097.68	-0.0040138	0.0002859
1098.64	-0.0046368	0.0002258
1099.61	-0.0044443	0.000272
1100.57	-0.004217	0.0002799
1101.54	-0.0043496	0.0002611
1102.5	-0.0044124	0.0002909
1103.47	-0.0044878	0.0002673
1104.43	-0.0050439	0.0002742
1105.4	-0.0048363	0.0003028
1106.36	-0.0046868	0.0002852
1107.32	-0.0046937	0.0003025
1108.29	-0.0047154	0.0003084
1109.25	-0.0048544	0.0002668
1110.22	-0.0049944	0.0002804
1111.18	-0.0046015	0.0002449
1112.15	-0.0040967	0.000295
1113.11	-0.0043389	0.0003002
1114.08	-0.0033114	0.0002581
1115.04	-0.0036751	0.0002967
1116.01	-0.0048622	0.0002897
1116.97	-0.0050481	0.0002883
1117.93	-0.0055087	0.0003058
1118.9	-0.0053138	0.0002447
1119.86	-0.0052252	0.0002249
1120.83	-0.0047404	0.0002527
1121.79	-0.0047796	0.0002817
1122.76	-0.0045868	0.0002263
1123.72	-0.0044189	0.0002822
1124.69	-0.0044078	0.0002613
1125.65	-0.00468	0.0002669
1126.61	-0.0047484	0.000291
1127.58	-0.0048433	0.0002638
1128.54	-0.0048957	0.0002884
1129.51	-0.0046265	0.0002705
1130.47	-0.0047877	0.0002445
1131.44	-0.004714	0.0002706
1132.4	-0.0048316	0.0002491
1133.37	-0.0046849	0.0002788
1134.33	-0.004068	0.0002824
1135.29	-0.0032008	0.0002538
1136.26	-0.0028527	0.0002162
1137.22	-0.0036559	0.0002698
1138.19	-0.0037129	0.0002585
1139.15	-0.0037914	0.0002395
1140.12	-0.0037822	0.000282

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1141.08	-0.0035169	0.0002695
1142.05	-0.0031283	0.0002974
1143.01	-0.0041012	0.0002821
1143.98	-0.0036062	0.0003066
1144.94	-0.0035067	0.0003138
1145.9	-0.0037226	0.0002595
1146.87	-0.0038215	0.0002795
1147.83	-0.0035943	0.0003136
1148.8	-0.0033248	0.0002606
1149.76	-0.0028483	0.0002854
1150.73	-0.0031417	0.000296
1151.69	-0.0030919	0.0002792
1152.66	-0.0028438	0.0003081
1153.62	-0.0034121	0.0002922
1154.58	-0.0032429	0.0002987
1155.55	-0.0034934	0.0002991
1156.51	-0.0030842	0.0003411
1157.48	-0.0025436	0.0002993
1158.44	-0.0027488	0.0002995
1159.41	-0.0023195	0.0002913
1160.37	-0.0020966	0.0002983
1161.34	-0.002231	0.0003035
1162.3	-0.0019471	0.0003004
1163.26	-0.0017285	0.0003077
1164.23	-0.0015008	0.0003247
1165.19	-0.0015699	0.000261
1166.16	-0.0022209	0.0003046
1167.12	-0.0023911	0.0003073
1168.09	-0.0021444	0.0002807
1169.05	-0.0022364	0.0003386
1170.02	-0.0018459	0.0002934
1170.98	-0.0018303	0.0002978
1171.94	-0.0015703	0.0003068
1172.91	-0.0011255	0.0002912
1173.87	-0.0005742	0.0003162
1174.84	0.0000611	0.0003503
1175.8	-0.0005583	0.0003346
1176.77	-0.0004489	0.0003218
1177.73	-0.0007122	0.0003073
1178.7	-0.0006548	0.0003338
1179.66	-0.0005164	0.000299
1180.63	-0.0002567	0.0003128
1181.59	0.0000231	0.0003287
1182.55	0.0003835	0.0003113
1183.52	0.0007568	0.0003035

Methanol 2.52 Mole % 5.8 Torr MS02AV1
MS02AD1

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1184.48	0.0011659	0.0003193
1185.45	0.0013415	0.0003244
1186.41	0.001515	0.000302
1187.38	0.0020633	0.0003292
1188.34	0.0017025	0.0003119
1189.31	0.0016666	0.0003265
1190.27	0.001897	0.0003275
1191.23	0.0019072	0.0003116
1192.2	0.0023732	0.0003571
1193.16	0.0025146	0.000346
1194.13	0.002948	0.0003493
1195.09	0.0033139	0.0003441
1196.06	0.0034103	0.0003666
1197.02	0.0036384	0.0003062
1197.99	0.0039362	0.0003269
1198.95	0.0041288	0.0003444
1199.91	0.0039272	0.0002962
1200.88	0.0043416	0.0003693
1201.84	0.0043717	0.0003103
1202.81	0.0050084	0.0002984
1203.77	0.0043615	0.0003237
1204.74	0.0047598	0.0003312
1205.7	0.0046826	0.0002841
1206.67	0.0047679	0.0003365
1207.63	0.0055981	0.0003835
1208.6	0.0054188	0.0003674
1209.56	0.0055414	0.0003068
1210.52	0.0050558	0.0003458
1211.49	0.0062048	0.0003447
1212.45	0.0069653	0.0003201
1213.42	0.0064796	0.0003319
1214.38	0.0068831	0.0003461
1215.35	0.0058307	0.0003498
1216.31	0.0056441	0.0003268
1217.28	0.0053361	0.0003121
1218.24	0.0056209	0.0003267
1219.2	0.0052049	0.0003582
1220.17	0.0049679	0.0003551
1221.13	0.0049937	0.000422
1222.1	0.0046716	0.0003809
1223.06	0.0052928	0.000402
1224.03	0.0052363	0.0003241
1224.99	0.0068388	0.000361
1225.96	0.0060111	0.0003695
1226.92	0.0050379	0.000385

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1227.88	0.0054144	0.0003469
1228.85	0.0051273	0.000356
1229.81	0.0039714	0.0003542
1230.78	0.0039838	0.0003235
1231.74	0.0037965	0.0003329
1232.71	0.0052786	0.0003173
1233.67	0.0052396	0.0003659
1234.64	0.0036134	0.0003295
1235.6	0.0033228	0.0003491
1236.57	0.0034477	0.0003128
1237.53	0.0036087	0.0003107
1238.49	0.0045979	0.0003805
1239.46	0.0053423	0.0003384
1240.42	0.0048404	0.0003352
1241.39	0.0037817	0.0003694
1242.35	0.0033523	0.0003239
1243.32	0.0036425	0.0003233
1244.28	0.003835	0.0003193
1245.25	0.0028171	0.0002952
1246.21	0.0025597	0.0003306
1247.17	0.0025668	0.0002991
1248.14	0.0028861	0.0003215
1249.1	0.0034574	0.0003503
1250.07	0.0030442	0.0003349
1251.03	0.0027422	0.0003088
1252	0.0025027	0.0003156
1252.96	0.0025552	0.0003113
1253.93	0.0028345	0.0003369
1254.89	0.0026757	0.0003144
1255.85	0.0027723	0.0003641
1256.82	0.0029906	0.0003326
1257.78	0.0028718	0.0002686
1258.75	0.0028653	0.0002849
1259.71	0.0028957	0.0003009
1260.68	0.0042228	0.0003033
1261.64	0.0022241	0.0003243
1262.61	0.0022936	0.0003148
1263.57	0.0016332	0.0002997
1264.53	0.001727	0.0003279
1265.5	0.0020429	0.0003006
1266.46	0.0016143	0.0003367
1267.43	0.0013681	0.0003024
1268.39	0.0019415	0.0003115
1269.36	0.0020124	0.0003507
1270.32	0.0022732	0.0003416

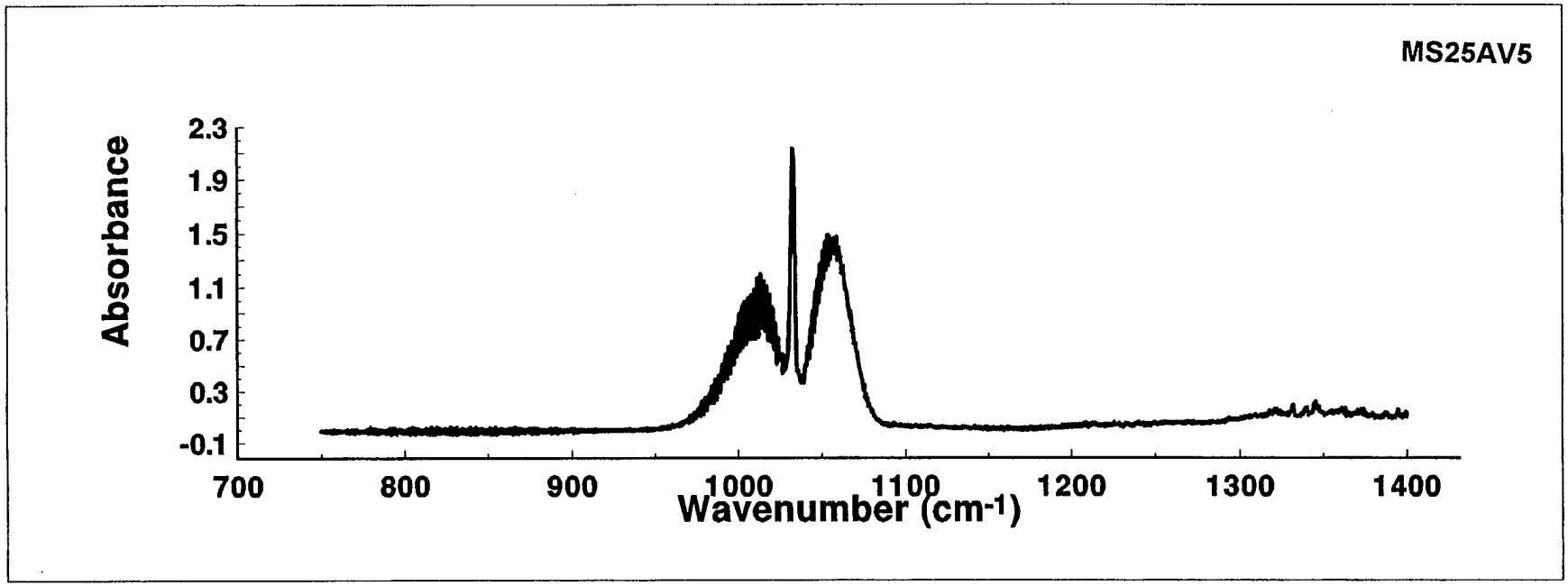
Methanol 2.52 Mole % 5.8 Torr MS02AV1 MS02AD1

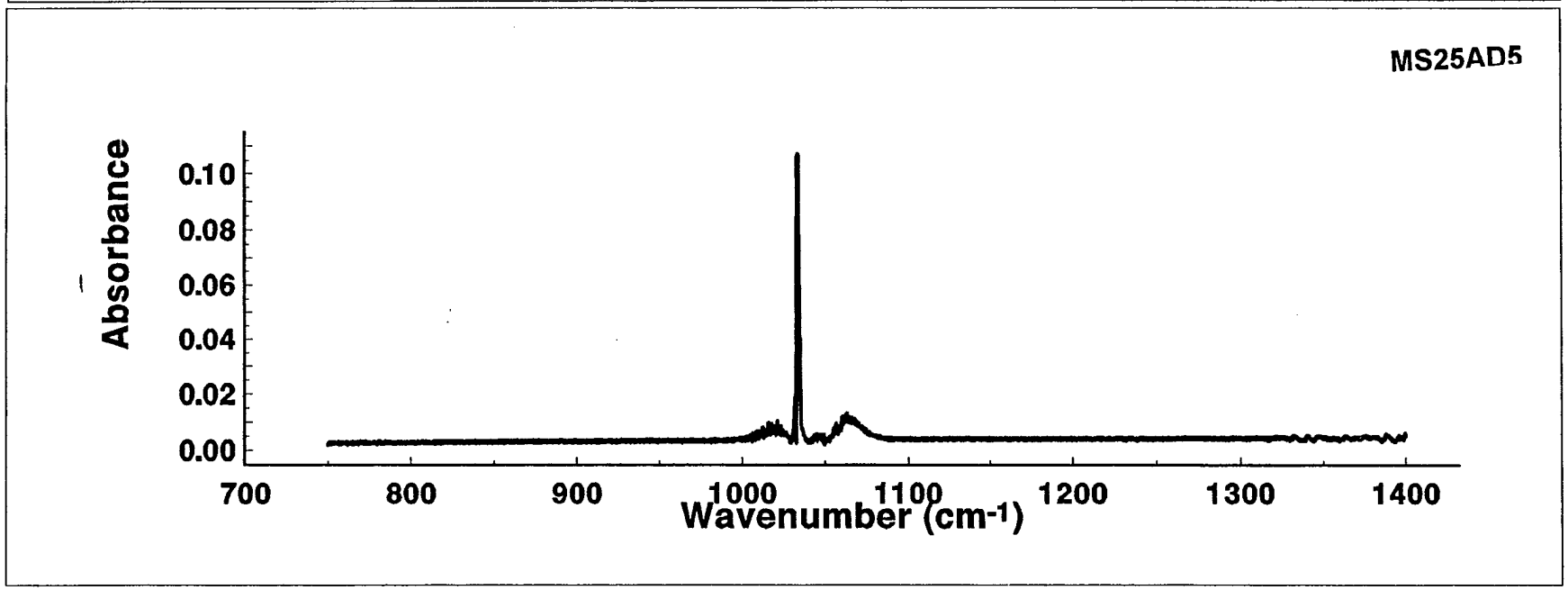
WN (cm-1)	AVE (A.U.)	AD (A.U.)
1271.29	0.0018733	0.000342
1272.25	0.0028798	0.0003288
1273.22	0.0002285	0.0003602
1274.18	-0.0000806	0.0003553
1275.14	-0.0001277	0.0003197
1276.11	-0.0003966	0.0002862
1277.07	-0.0000131	0.0003943
1278.04	-0.0003858	0.0004209
1279	-0.0001862	0.0003432
1279.97	0.0001976	0.0003915
1280.93	-0.0003066	0.0003982
1281.9	-0.0003411	0.0003471
1282.86	-0.0005959	0.0003461
1283.82	0.0000689	0.0003659
1284.79	-0.0001648	0.0003365
1285.75	-0.0004445	0.0003222
1286.72	0.0000593	0.0003121
1287.68	0.0014611	0.0003431
1288.65	0.0015802	0.000395
1289.61	0.0007925	0.0004158
1290.58	0.0010596	0.0003602
1291.54	0.0000673	0.0003508
1292.5	0.0010182	0.0003779
1293.47	0.0022025	0.0003787
1294.43	0.0017935	0.0003537
1295.4	0.0014643	0.0003429
1296.36	0.0024099	0.0003345
1297.33	0.0021829	0.0003473
1298.29	0.0020463	0.0003137
1299.26	0.0022759	0.0003526
1300.22	0.0021219	0.0003396
1301.18	0.002691	0.0002974
1302.15	0.0033137	0.0004261
1303.11	0.0035859	0.0003998
1304.08	0.0032021	0.0004316
1305.04	0.0032368	0.0003799
1306.01	0.004665	0.0003517
1306.97	0.0037255	0.0003652
1307.94	0.0061106	0.0003253
1308.9	0.0061617	0.0003493
1309.87	0.0051481	0.000382
1310.83	0.0044813	0.0003715
1311.79	0.0061728	0.0003395
1312.76	0.0102812	0.00045
1313.72	0.0076884	0.0004612

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1314.69	0.0073857	0.0003626
1315.65	0.0072338	0.000392
1316.62	0.0085897	0.0003335
1317.58	0.0123096	0.0005078
1318.55	0.0132962	0.0003475
1319.51	0.0141232	0.000573
1320.47	0.0126542	0.0004547
1321.44	0.0102185	0.0004504
1322.4	0.0098921	0.0004557
1323.37	0.0079238	0.0004173
1324.33	0.0080434	0.0004922
1325.3	0.0067161	0.0005119
1326.26	0.0072175	0.0004775
1327.23	0.0060886	0.0005138
1328.19	0.0059149	0.0004308
1329.15	0.0069039	0.0004905
1330.12	0.0079161	0.0003853
1331.08	0.0105353	0.0003304
1332.05	0.0141778	0.0003586
1333.01	0.0076436	0.0004028
1333.98	0.0061076	0.0003974
1334.94	0.006852	0.0004163
1335.91	0.0093762	0.0002731
1336.87	0.0185301	0.0004755
1337.84	0.0150058	0.0004005
1338.8	0.0276156	0.0003599
1339.76	0.0298691	0.0003746
1340.73	0.0280553	0.0005835
1341.69	0.0091614	0.0004778
1342.66	0.0087701	0.0003395
1343.62	0.0095062	0.0003727
1344.59	0.0137084	0.0003586
1345.55	0.0188121	0.0004452
1346.52	0.0145596	0.0004514
1347.48	0.0156934	0.0003898
1348.44	0.0116477	0.0003734
1349.41	0.013586	0.0003466
1350.37	0.0098446	0.0004561
1351.34	0.0091985	0.0004175
1352.3	0.0097107	0.0003542
1353.27	0.0099892	0.0004141
1354.23	0.0135436	0.0003886
1355.2	0.0164997	0.0004147
1356.16	0.011396	0.000424
1357.12	0.0139385	0.0003246

Methanol 2.52 Mole % 5.8 Torr MS02AV1
MS02AD1

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1358.09	0.0151056	0.0003471
1359.05	0.014415	0.0004323
1360.02	0.0173681	0.0004176
1360.98	0.0298848	0.000284
1361.95	0.0261066	0.0004626
1362.91	0.0395678	0.0002215
1363.88	0.0273713	0.0007808
1364.84	0.0121844	0.0003792
1365.8	0.0110299	0.0003031
1366.77	0.0107907	0.0003567
1367.73	0.0137443	0.000379
1368.7	0.023112	0.0005361
1369.66	0.0151736	0.0006467
1370.63	0.0167505	0.0005636
1371.59	0.0164921	0.0004909
1372.56	0.0206887	0.0003479
1373.52	0.0330563	0.0002357
1374.49	0.0344118	0.0007639
1375.45	0.0287286	0.0006325
1376.41	0.0128908	0.0005573
1377.38	0.0126998	0.0003548
1378.34	0.0175209	0.0004196
1379.31	0.014394	0.0003663
1380.27	0.0141193	0.0004481
1381.24	0.0109512	0.0004219
1382.2	0.0115083	0.0005303
1383.17	0.0112174	0.0005836
1384.13	0.0115974	0.000532
1385.09	0.0139448	0.0004363
1386.06	0.0202352	0.0002749
1387.02	0.0345931	0.0001387
1387.99	0.0402034	0.0008278
1388.95	0.0155198	0.0004186
1389.92	0.0137078	0.000287
1390.88	0.013289	0.0004156
1391.85	0.0141648	0.0004392
1392.81	0.0166061	0.0004537
1393.77	0.0292285	0.0001698
1394.74	0.06012	0.000741
1395.7	0.0376674	0.0007705
1396.67	0.0253741	0.0004758
1397.63	0.0282099	0.0001047
1398.6	0.0339151	0.0001286
1399.56	0.0485719	0.0006751


MS25AV5
Absorbance
2.3
1.9
1.5
1.1
0.7
0.3
-0.1
700
800
900
1000
1100
1200
1300
1400
Wavenumber (cm-1)


MS25AD5
Absorbance
0.10
0.08
0.06
0.04
0.02
0.00
700
800
900
1000
1100
1200
1300
1400
Wavenumber (cm-1)

Methanol 24.97 Mole % 38.6 Torr MS25AV5
MS25AD5

WN (cm-1)	AVE (A.U.)	AD (A.U.)
749.927	-0.0053855	0.001974
750.409	-0.0060694	0.0023422
750.891	-0.0132426	0.0025697
751.373	-0.0135255	0.00246
751.856	-0.005852	0.0021733
752.338	-0.0045253	0.0026576
752.82	-0.0147587	0.0025557
753.302	-0.015272	0.0021907
753.785	-0.0033562	0.0024613
754.267	-0.0036509	0.0024417
754.749	-0.0178268	0.0023989
755.231	-0.0171151	0.0022873
755.714	-0.00011	0.0027826
756.196	-0.0047024	0.0023774
756.678	-0.022316	0.0020961
757.16	-0.0126116	0.0024608
757.643	0.0037773	0.0027017
758.125	-0.0084405	0.0022963
758.607	-0.0200467	0.0023859
759.089	-0.0064857	0.0026587
759.571	-0.0001333	0.0024767
760.054	-0.013575	0.0021886
760.536	-0.0138274	0.0025637
761.018	-0.0050714	0.0027758
761.5	-0.0095715	0.0021856
761.983	-0.0108919	0.0021482
762.465	-0.0077556	0.0026379
762.947	-0.0122425	0.0024704
763.429	-0.0135549	0.0022226
763.912	-0.0050745	0.0024897
764.394	-0.0074753	0.0026605
764.876	-0.018818	0.002203
765.358	-0.0109503	0.0024383
765.841	0.0007575	0.0025122
766.323	-0.0123925	0.0023029
766.805	-0.0229762	0.0023607
767.287	-0.00363	0.0028263
767.77	0.0033799	0.0024511
768.252	-0.0213638	0.0021777
768.734	-0.0214125	0.0024996
769.216	0.0036426	0.0028696
769.698	-0.0028771	0.0024095
770.181	-0.0258794	0.0024305
770.663	-0.0113022	0.0027904
771.145	0.0047736	0.0027645

WN (cm-1)	AVE (A.U.)	AD (A.U.)
771.627	-0.0142884	0.002213
772.11	-0.0204639	0.0025978
772.592	-0.0028142	0.0027629
773.074	-0.004706	0.0023738
773.556	-0.0181414	0.0022267
774.039	-0.0104997	0.0026332
774.521	-0.0051458	0.0026838
775.003	-0.0170513	0.0023086
775.485	-0.012579	0.0025601
775.968	-0.0022418	0.0026446
776.45	-0.0145291	0.0023953
776.932	-0.0176457	0.0023585
777.414	0.0067217	0.0027343
777.897	0.0032687	0.0024307
778.379	-0.0225633	0.0023941
778.861	-0.0047054	0.0027116
779.343	0.0188853	0.0027267
779.825	-0.0062494	0.0023215
780.308	-0.0209406	0.0026456
780.79	0.0096825	0.0030202
781.272	0.0070034	0.0025968
781.754	-0.0272544	0.0023163
782.237	-0.0185417	0.00273
782.719	0.0087859	0.0026606
783.201	-0.0100255	0.0022673
783.683	-0.0279421	0.0025399
784.166	-0.0051098	0.0029271
784.648	0.0008542	0.002457
785.13	-0.0214137	0.0024035
785.612	-0.014786	0.0026986
786.095	0.0003536	0.0027512
786.577	-0.0152409	0.0024714
787.059	-0.0187608	0.0024627
787.541	-0.0008062	0.0028654
788.024	-0.0093759	0.0024985
788.506	-0.0247915	0.0024705
788.988	-0.0045887	0.0026477
789.47	0.0042232	0.002614
789.952	-0.025163	0.0022372
790.435	-0.0197827	0.0027102
790.917	0.01136	0.0027212
791.399	-0.0080004	0.0023317
791.881	-0.0333058	0.0025557
792.364	-0.0020466	0.0028396
792.846	0.0120728	0.0025507

Methanol 24.97 Mole % 38.6 Torr MS25AV5
MS25AD5

WN (cm-1)	AVE (A.U.)	AD (A.U.)	WN (cm-1)	AVE (A.U.)	AD (A.U.)
793.328	-0.024951	0.0022414	815.029	-0.0331286	0.0025991
793.81	-0.0243258	0.0028294	815.511	-0.0128935	0.0030902
794.293	0.0117618	0.0028012	815.993	0.0205782	0.002672
794.775	-0.0023273	0.0023245	816.476	-0.0143664	0.0023868
795.257	-0.0303943	0.0024817	816.958	-0.0332455	0.0028582
795.739	-0.0064222	0.0026864	817.44	0.0106594	0.0029087
796.222	0.008995	0.0026012	817.922	0.0110332	0.0024366
796.704	-0.018915	0.0023288	818.405	-0.0313467	0.002492
797.186	-0.0185562	0.0025667	818.887	-0.013579	0.002927
797.668	0.0042773	0.002769	819.369	0.020948	0.0026439
798.151	-0.0079861	0.002495	819.851	-0.0085494	0.0024512
798.633	-0.0218509	0.002481	820.334	-0.0253874	0.0028222
799.115	-0.0018437	0.0027766	820.816	0.0095865	0.0029278
799.597	-0.0006916	0.0024979	821.298	0.0066735	0.0026217
800.08	-0.0231514	0.0025532	821.78	-0.0264183	0.002643
800.562	-0.0095118	0.0026615	822.262	-0.0094833	0.0029811
801.044	0.007514	0.0026034	822.745	0.0083958	0.0025744
801.526	-0.018595	0.0023741	823.227	-0.01927	0.0027159
802.008	-0.0246418	0.0027481	823.709	-0.0194922	0.0030085
802.491	0.0097978	0.0028157	824.191	0.0108097	0.0028264
802.973	0.0006424	0.0023115	824.674	-0.0077296	0.0026326
803.455	-0.0336266	0.0024455	825.156	-0.0288815	0.0028461
803.937	-0.0083284	0.0029633	825.638	0.0036293	0.0029168
804.42	0.0186756	0.0025826	826.12	0.0081715	0.0024312
804.902	-0.0197041	0.0023278	826.603	-0.0308463	0.0025381
805.384	-0.029793	0.0027191	827.085	-0.0148357	0.0030428
805.866	0.0129449	0.0027769	827.567	0.0215968	0.0027334
806.349	0.0070743	0.0025633	828.049	-0.0109953	0.0024611
806.831	-0.0319207	0.0026337	828.532	-0.0340688	0.0029409
807.313	-0.0117432	0.0029468	829.014	0.0092917	0.002901
807.795	0.0142711	0.0027535	829.496	0.0128774	0.0024713
808.278	-0.0158817	0.0023722	829.978	-0.0327623	0.0027818
808.76	-0.025803	0.0026854	830.461	-0.0178697	0.0031401
809.242	0.004738	0.0029668	830.943	0.019363	0.0026379
809.724	-0.0025552	0.0025619	831.425	-0.010562	0.0025849
810.206	-0.0271705	0.0026457	831.907	-0.0328303	0.0028268
810.689	-0.0068417	0.0027661	832.39	0.0037641	0.0027996
811.171	0.00403	0.0025588	832.872	0.0060328	0.0025607
811.653	-0.0234066	0.0025509	833.354	-0.0285057	0.0028749
812.135	-0.0157964	0.0027868	833.836	-0.0133136	0.0030034
812.618	0.0091731	0.0025415	834.318	0.0098978	0.0026772
813.1	-0.0149851	0.002455	834.801	-0.0174401	0.0025941
813.582	-0.0283881	0.0027604	835.283	-0.0222829	0.0030076
814.064	0.007198	0.0029994	835.765	0.0081148	0.0028896
814.547	0.0053466	0.0022915	836.247	-0.0063109	0.0025076

Methanol 24.97 Mole % 38.6 Torr MS25AV5
MS25AD5

WN (cm-1)	AVE (A.U.)	AD (A.U.)
836.73	-0.0289012	0.0028386
837.212	0.0024285	0.0029347
837.694	0.0092314	0.0024225
838.176	-0.0284064	0.0027304
838.659	-0.0157831	0.0032255
839.141	0.0195708	0.0026923
839.623	-0.0115004	0.0025865
840.105	-0.0341555	0.0029869
840.588	0.0089862	0.0030409
841.07	0.0129249	0.0025522
841.552	-0.0320878	0.0028233
842.034	-0.0171744	0.003009
842.516	0.0197048	0.0027434
842.999	-0.0108408	0.0026801
843.481	-0.0330285	0.0029172
843.963	0.0049992	0.0029587
844.445	0.0072978	0.0026431
844.928	-0.0269503	0.0028032
845.41	-0.0119976	0.0030633
845.892	0.0114003	0.0026573
846.374	-0.0143685	0.0027714
846.857	-0.0221603	0.0030533
847.339	0.0070542	0.002757
847.821	-0.0044561	0.002605
848.303	-0.0267356	0.0030332
848.786	0.0017329	0.0029991
849.268	0.0077025	0.0025876
849.75	-0.0262027	0.0027797
850.232	-0.0141464	0.0031232
850.715	0.0173615	0.002763
851.197	-0.0127098	0.0027079
851.679	-0.0316138	0.0030404
852.161	0.0102096	0.003064
852.644	0.010012	0.0026296
853.126	-0.0320765	0.0028235
853.608	-0.0143891	0.0031455
854.09	0.0195615	0.002813
854.572	-0.0135436	0.0026385
855.055	-0.0324739	0.0031674
855.537	0.0069162	0.0030574
856.019	0.0062552	0.0025956
856.501	-0.0290447	0.0028884
856.984	-0.0122096	0.0031784
857.466	0.0111255	0.0027309
857.948	-0.0149941	0.0028984

WN (cm-1)	AVE (A.U.)	AD (A.U.)
858.43	-0.0209717	0.003071
858.913	0.0081941	0.0026833
859.395	-0.0014205	0.0026907
859.877	-0.0207348	0.0030768
860.359	0.003182	0.0030083
860.842	0.0056027	0.0026459
861.324	-0.0242904	0.0029884
861.806	-0.0111389	0.0031431
862.288	0.0140533	0.0027035
862.771	-0.0146268	0.0027437
863.253	-0.0272694	0.0031744
863.735	0.0111062	0.0029526
864.217	0.0048887	0.0025836
864.699	-0.0319756	0.0030167
865.182	-0.0094126	0.0031082
865.664	0.0177409	0.0027106
866.146	-0.0161354	0.0027812
866.628	-0.0279551	0.0031804
867.111	0.0098295	0.0030118
867.593	0.0035261	0.0027322
868.075	-0.0286752	0.0030347
868.557	-0.0089986	0.0030183
869.04	0.0111563	0.0026047
869.522	-0.0161686	0.0028796
870.004	-0.0197679	0.0030981
870.486	0.0063534	0.0027499
870.969	-0.0051609	0.0027877
871.451	-0.0210179	0.0030601
871.933	0.0027701	0.0028947
872.415	0.0040582	0.0027598
872.898	-0.0184794	0.0031216
873.38	-0.0034876	0.0031434
873.862	0.0112155	0.0027196
874.344	-0.0159857	0.0028131
874.827	-0.019246	0.0032751
875.309	0.0127538	0.0028386
875.791	-0.0005673	0.0026497
876.273	-0.0280404	0.0030618
876.756	-0.0022022	0.0031934
877.238	0.0140236	0.0026738
877.72	-0.0195684	0.0028309
878.202	-0.0226942	0.0031418
878.684	0.012107	0.0028403
879.167	-0.0001367	0.0027733
879.649	-0.027695	0.0030768

Methanol 24.97 Mole % 38.6 Torr MS25AV5
MS25AD5

WN (cm-1)	AVE (A.U.)	AD (A.U.)
880.131	-0.0048939	0.0030175
880.613	0.0087398	0.0028415
881.096	-0.0179226	0.0029914
881.578	-0.016676	0.0031083
882.06	0.0052403	0.0028464
882.542	-0.0072408	0.0029116
883.025	-0.0189278	0.0030704
883.507	0.0006052	0.0028462
883.989	-0.0014705	0.0028516
884.471	-0.0185424	0.0031768
884.954	-0.0030022	0.0031122
885.436	0.0058458	0.0026943
885.918	-0.0166292	0.0030435
886.4	-0.0125493	0.0032561
886.882	0.0104942	0.0027945
887.365	-0.0067261	0.002777
887.847	-0.0234284	0.0031968
888.329	0.0033776	0.003076
888.811	0.0082462	0.0027094
889.294	-0.021451	0.003014
889.776	-0.0150998	0.0031853
890.258	0.0111827	0.0029412
890.74	-0.0063643	0.0028808
891.223	-0.0244501	0.0032664
891.705	-0.0000224	0.0030053
892.187	0.0062591	0.0027339
892.669	-0.018114	0.0031431
893.152	-0.0128524	0.0031373
893.634	0.0050369	0.0028422
894.116	-0.007423	0.0029743
894.598	-0.0147333	0.0031187
895.081	0.0003056	0.0028849
895.563	-0.0023915	0.0028695
896.045	-0.0132202	0.0032391
896.527	-0.0008963	0.0029183
897.009	0.0022666	0.0027364
897.492	-0.0130976	0.0031176
897.974	-0.0040966	0.0031941
898.456	0.0088263	0.0026657
898.938	-0.0074898	0.0029486
899.421	-0.0102151	0.0033319
899.903	0.0102322	0.0030541
900.385	0.0024426	0.0027707
900.867	-0.0199579	0.0031664
901.35	-0.0060298	0.0032278

WN (cm-1)	AVE (A.U.)	AD (A.U.)
901.832	0.009189	0.0027842
902.314	-0.0112181	0.0029414
902.796	-0.018198	0.0032767
903.279	0.0033126	0.0027689
903.761	0.0009826	0.0028893
904.243	-0.0168679	0.0032242
904.725	-0.0082872	0.0030259
905.208	0.0034977	0.0028501
905.69	-0.0077933	0.0031496
906.172	-0.0104921	0.0031773
906.654	0.0001358	0.0028598
907.137	-0.0026536	0.0029479
907.619	-0.0077044	0.003252
908.101	-0.0005816	0.0029525
908.583	-0.0018403	0.0028318
909.066	-0.0079823	0.0032258
909.548	-5.81E-06	0.0030731
910.03	0.0020919	0.0027557
910.512	-0.0105365	0.0031032
910.994	-0.0061614	0.0033519
911.477	0.0060428	0.0027849
911.959	-0.0043591	0.0028487
912.441	-0.0131136	0.0033266
912.923	0.002848	0.0030574
913.406	0.0044361	0.002735
913.888	-0.0120589	0.0031587
914.37	-0.0093141	0.003336
914.852	0.0056837	0.0027499
915.335	-0.0015702	0.0028996
915.817	-0.0118909	0.0032105
916.299	-0.0009822	0.0030289
916.781	0.0023694	0.0029566
917.263	-0.0060792	0.0031936
917.746	-0.0071045	0.0032468
918.228	-0.000342	0.0028693
918.71	-0.0009475	0.0030241
919.192	-0.0034166	0.0031927
919.675	-0.0022763	0.0029212
920.157	-0.0028442	0.0029737
920.639	-0.000794	0.0032856
921.121	0.0011302	0.0030021
921.604	-0.0025927	0.0028191
922.086	-0.0055544	0.0032325
922.568	0.001707	0.0032128
923.05	0.0023988	0.0027852

Methanol 24.97 Mole % 38.6 Torr MS25AV5 MS25AD5

WN (cm-1)	AVE (A.U.)	AD (A.U.)
923.533	-0.0068108	0.0030703
924.015	-0.0030245	0.0033989
924.497	0.0058154	0.0030337
924.979	0.0001494	0.0028688
925.462	-0.0063661	0.00323
925.944	-0.0005063	0.0032258
926.426	0.0044764	0.0029255
926.908	-0.003027	0.0031049
927.391	-0.0048844	0.0034133
927.873	0.0011829	0.0029946
928.355	0.0016635	0.0030009
928.837	-0.0019264	0.0032442
929.319	-0.002482	0.0031058
929.802	0.0000338	0.0029353
930.284	0.0020924	0.0032824
930.766	0.001118	0.0031676
931.248	-0.0026783	0.0028886
931.731	0.0008549	0.0031506
932.213	0.0077796	0.0033375
932.695	0.0030258	0.0029813
933.177	-0.0025168	0.003031
933.66	0.0045326	0.0034626
934.142	0.0075303	0.0032518
934.624	-0.0015016	0.0027995
935.106	-0.0039	0.0033493
935.589	0.0056741	0.0033548
936.071	0.0051784	0.0028878
936.553	-0.0037547	0.0030875
937.035	-0.000024	0.0033814
937.518	0.0056664	0.0031038
938	0.0019239	0.0029195
938.482	0.0005295	0.0032797
938.964	0.004584	0.0032747
939.447	0.0050043	0.0030223
939.929	0.0032962	0.0031962
940.411	0.0050252	0.0033576
940.893	0.0019302	0.0029923
941.375	0.0040157	0.0031402
941.858	0.0082169	0.0034939
942.34	0.0012318	0.0031627
942.822	-0.0030448	0.0030664
943.304	0.0074716	0.003414
943.787	0.0125697	0.0032806
944.269	-0.0009025	0.0029079
944.751	-0.000171	0.0033719

WN (cm-1)	AVE (A.U.)	AD (A.U.)
945.233	0.0125342	0.0034811
945.716	0.0054802	0.0030093
946.198	-0.0025078	0.0030237
946.68	0.0082096	0.0034731
947.162	0.014132	0.003218
947.645	0.0004659	0.0029428
948.127	0.0009413	0.0032752
948.609	0.0123379	0.003426
949.091	0.0060097	0.0029895
949.573	0.001669	0.0031209
950.056	0.0079553	0.0033207
950.538	0.0104176	0.0032297
951.02	0.0091631	0.0031072
951.502	0.0130874	0.003236
951.985	0.0095185	0.0032518
952.467	0.0039395	0.0030366
952.949	0.0134964	0.0032492
953.431	0.0236209	0.0034435
953.914	0.0082189	0.0030332
954.396	0.0073192	0.0031119
954.878	0.0233537	0.0034407
955.36	0.0219835	0.0031745
955.843	0.0101963	0.0031149
956.325	0.0166264	0.0033948
956.807	0.0266484	0.0034038
957.289	0.0111947	0.0029061
957.772	0.0171572	0.0032093
958.254	0.0320036	0.0035002
958.736	0.0259049	0.0031493
959.218	0.0155548	0.0030157
959.7	0.0285158	0.0034774
960.183	0.0411126	0.0033253
960.665	0.0275839	0.0029976
961.147	0.0251311	0.0032513
961.629	0.0347932	0.0034636
962.112	0.0320416	0.0031413
962.594	0.0381033	0.0031902
963.076	0.0408863	0.0034867
963.558	0.0332286	0.0031776
964.041	0.0297967	0.0029307
964.523	0.050774	0.003399
965.005	0.0561368	0.0032767
965.487	0.0349048	0.0029569
965.97	0.0382447	0.0032211
966.452	0.062018	0.0033004

Methanol 24.97 Mole % 38.6 Torr MS25AV5 MS25AD5

WN (cm-1)	AVE (A.U.)	AD (A.U.)	WN (cm-1)	AVE (A.U.)	AD (A.U.)
966.934	0.0635446	0.0030102	988.635	0.424833	0.0036023
967.416	0.0525297	0.0031966	989.117	0.2946	0.0036722
967.899	0.0665575	0.0035155	989.599	0.371631	0.0030433
968.381	0.0706309	0.0030761	990.082	0.439945	0.0030649
968.863	0.0673621	0.0030127	990.564	0.507089	0.0035914
969.345	0.0849593	0.0036327	991.046	0.379812	0.0038511
969.828	0.0894597	0.003432	991.528	0.378713	0.0031362
970.31	0.0551078	0.0030377	992.01	0.480902	0.0032973
970.792	0.0658197	0.003271	992.493	0.585208	0.0032887
971.274	0.111986	0.0034355	992.975	0.475674	0.0037199
971.757	0.110646	0.003099	993.457	0.396005	0.0031628
972.239	0.0697027	0.0030915	993.939	0.539728	0.0036084
972.721	0.0782349	0.0033821	994.422	0.642832	0.0031551
973.203	0.119518	0.0031917	994.904	0.574614	0.0038573
973.685	0.133207	0.0031307	995.386	0.436737	0.0036681
974.168	0.107003	0.0033106	995.868	0.583494	0.0037011
974.65	0.093869	0.0032749	996.351	0.680126	0.0034224
975.132	0.114252	0.0029787	996.833	0.67751	0.0038059
975.614	0.150005	0.0032138	997.315	0.50271	0.0038314
976.097	0.167005	0.0036714	997.797	0.598785	0.0034727
976.579	0.111925	0.0031187	998.28	0.731724	0.003506
977.061	0.109314	0.0029593	998.762	0.790547	0.0043588
977.543	0.175242	0.0033801	999.244	0.566866	0.004132
978.026	0.220741	0.0032591	999.726	0.60391	0.0033587
978.508	0.144114	0.0031167	1000.2	0.811834	0.00402
978.99	0.122263	0.0031604	1000.69	0.895687	0.0043188
979.472	0.202638	0.0034508	1001.17	0.610792	0.004215
979.955	0.249349	0.0030764	1001.65	0.633628	0.0034065
980.437	0.208785	0.0033371	1002.13	0.899534	0.0045367
980.919	0.151772	0.003589	1002.62	0.95927	0.0035227
981.401	0.209975	0.0029971	1003.1	0.637411	0.0045098
981.884	0.25379	0.003091	1003.58	0.709174	0.0035502
982.366	0.276896	0.0035139	1004.06	0.98548	0.004132
982.848	0.202746	0.0036434	1004.54	0.98503	0.0050366
983.33	0.209523	0.0029121	1005.03	0.662878	0.0052831
983.812	0.269765	0.0033347	1005.51	0.778032	0.0034426
984.295	0.339817	0.0035686	1005.99	1.01543	0.0031499
984.777	0.268517	0.0035544	1006.47	1.0079	0.0058538
985.259	0.208733	0.0030865	1006.96	0.700688	0.0049613
985.741	0.301493	0.0034606	1007.44	0.856342	0.003573
986.224	0.389111	0.0034058	1007.92	1.03461	0.004634
986.706	0.34703	0.0034135	1008.4	1.01409	0.0063202
987.188	0.233555	0.0033461	1008.88	0.704126	0.0054072
987.67	0.344953	0.0032122	1009.37	0.939574	0.0040759
988.153	0.417247	0.0030152	1009.85	1.07958	0.0040988

Methanol 24.97 Mole % 38.6 Torr MS25AV5 MS25AD5

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1010.33	1.0073	0.0065789
1010.81	0.702553	0.0046291
1011.3	1.01002	0.0050077
1011.78	1.16227	0.0056859
1012.26	0.976763	0.0076796
1012.74	0.718535	0.0043958
1013.22	1.03341	0.0050619
1013.71	1.18947	0.0069095
1014.19	0.885949	0.0067218
1014.67	0.783617	0.0050547
1015.15	1.07114	0.0062509
1015.64	1.14158	0.0094747
1016.12	0.761936	0.005689
1016.6	0.909571	0.0055278
1017.08	1.10258	0.0064981
1017.56	1.0335	0.0091634
1018.05	0.691655	0.006064
1018.53	1.00032	0.0060092
1019.01	1.04093	0.0082851
1019.49	0.821687	0.0083678
1019.98	0.676796	0.0053829
1020.46	0.945837	0.0075558
1020.94	0.932717	0.0099988
1021.42	0.623823	0.00669
1021.9	0.767698	0.005828
1022.39	0.820026	0.0077652
1022.87	0.714036	0.008447
1023.35	0.508532	0.0054222
1023.83	0.709308	0.0060887
1024.32	0.707559	0.0069715
1024.8	0.565759	0.0064832
1025.28	0.541765	0.0053161
1025.76	0.582623	0.0058889
1026.25	0.552228	0.0062332
1026.73	0.439313	0.0050878
1027.21	0.5832	0.0046118
1027.69	0.536002	0.0051214
1028.17	0.460424	0.0045858
1028.66	0.489685	0.002761
1029.14	0.538755	0.0028602
1029.62	0.554063	0.0031083
1030.1	0.629773	0.0036226
1030.58	0.804588	0.0070988
1031.07	0.95219	0.0083939
1031.55	1.23521	0.0134048
1032.03	1.54235	0.0186305
1032.51	1.87299	0.0028385
1033	2.12561	0.0631582
1033.48	2.05728	0.106783
1033.96	1.62287	0.0687137
1034.44	1.07404	0.0312431
1034.92	0.574907	0.0126807
1035.41	0.451674	0.0083889
1035.89	0.451261	0.0073492
1036.37	0.460187	0.0068616
1036.85	0.404539	0.005232
1037.34	0.371219	0.005011
1037.82	0.366662	0.0043736
1038.3	0.418722	0.0034533
1038.78	0.425199	0.0036798
1039.26	0.363873	0.0036743
1039.75	0.422253	0.0026048
1040.23	0.502178	0.0026944
1040.71	0.491867	0.0031072
1041.19	0.505934	0.0029534
1041.67	0.640191	0.0038572
1042.16	0.632282	0.0031879
1042.64	0.548519	0.0028944
1043.12	0.753034	0.0051546
1043.6	0.786077	0.0035656
1044.09	0.640992	0.0037626
1044.57	0.851553	0.0055931
1045.05	0.920876	0.0031552
1045.53	0.754299	0.0039617
1046.01	0.959691	0.0053066
1046.5	1.06464	0.0043391
1046.98	0.883134	0.0039746
1047.46	1.05396	0.0052484
1047.94	1.15818	0.003358
1048.43	0.979939	0.0030533
1048.91	1.13295	0.0053132
1049.39	1.26985	0.002041
1049.87	1.0814	0.0033439
1050.35	1.21519	0.0038216
1050.84	1.36699	0.0030402
1051.32	1.16328	0.0036455
1051.8	1.26883	0.0038837
1052.28	1.43387	0.0031301
1052.77	1.22471	0.0046229
1053.25	1.3211	0.0047396

Methanol 24.97 Mole % 38.6 Torr MS25AV5 MS25AD5

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1053.73	1.48572	0.0046202
1054.21	1.26446	0.0053581
1054.69	1.36107	0.0047549
1055.18	1.4688	0.0075822
1055.66	1.30922	0.0066376
1056.14	1.41286	0.005747
1056.62	1.42294	0.0091888
1057.1	1.35799	0.0067626
1057.59	1.46069	0.0058012
1058.07	1.34345	0.0068447
1058.55	1.35914	0.008308
1059.03	1.46733	0.0086236
1059.52	1.3024	0.0070416
1060	1.33028	0.0090318
1060.48	1.38575	0.0117694
1060.96	1.31631	0.009188
1061.44	1.32185	0.010493
1061.93	1.2084	0.0105333
1062.41	1.20966	0.0102371
1062.89	1.25186	0.0128222
1063.37	1.15296	0.011633
1063.86	1.1269	0.0100517
1064.34	1.08056	0.0116073
1064.82	1.07515	0.0116333
1065.3	1.0548	0.0116524
1065.78	0.973051	0.0096095
1066.27	0.923516	0.0106178
1066.75	0.871315	0.0103285
1067.23	0.913673	0.0109531
1067.71	0.861314	0.0100099
1068.19	0.7662	0.0091017
1068.68	0.780698	0.0100079
1069.16	0.705772	0.0090626
1069.64	0.665655	0.0086826
1070.12	0.669909	0.0093945
1070.61	0.602756	0.0081884
1071.09	0.596745	0.0082878
1071.57	0.528284	0.0083342
1072.05	0.52226	0.0074746
1072.53	0.486033	0.0074047
1073.02	0.450556	0.0073135
1073.5	0.440737	0.0076049
1073.98	0.394967	0.0064349
1074.46	0.386088	0.0070982
1074.95	0.310107	0.0064499

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1075.43	0.346399	0.0062214
1075.91	0.250354	0.0055017
1076.39	0.277565	0.0061513
1076.87	0.233299	0.0056202
1077.36	0.24281	0.0053066
1077.84	0.18464	0.0053709
1078.32	0.198284	0.0054011
1078.8	0.18007	0.0049177
1079.28	0.160692	0.0049192
1079.77	0.139588	0.005124
1080.25	0.153511	0.0047886
1080.73	0.128561	0.00465
1081.21	0.107427	0.0048344
1081.7	0.112607	0.0047673
1082.18	0.104073	0.0042842
1082.66	0.0832649	0.0044867
1083.14	0.0825563	0.004593
1083.62	0.0803395	0.0041983
1084.11	0.0704604	0.0042189
1084.59	0.0659669	0.0043535
1085.07	0.0648281	0.0041353
1085.55	0.0618083	0.0040318
1086.04	0.0511437	0.0043038
1086.52	0.0531898	0.0041285
1087	0.0521678	0.0037749
1087.48	0.038906	0.0040893
1087.96	0.04152	0.0041667
1088.45	0.0511975	0.0036818
1088.93	0.0403773	0.0038219
1089.41	0.0321227	0.004109
1089.89	0.0459353	0.0037973
1090.37	0.0435919	0.003605
1090.86	0.0286087	0.0040052
1091.34	0.0371291	0.0039007
1091.82	0.0484554	0.003561
1092.3	0.0394909	0.0038292
1092.79	0.0340683	0.0039739
1093.27	0.052346	0.0037124
1093.75	0.0505494	0.0037158
1094.23	0.0372704	0.0040287
1094.71	0.036435	0.0038353
1095.2	0.0399011	0.0037626
1095.68	0.0319478	0.0040184
1096.16	0.0301008	0.0038531
1096.64	0.0361546	0.0036366

Methanol 24.97 Mole % 38.6 Torr MS25AV5
MS25AD5

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1097.13	0.0377719	0.0039254
1097.61	0.0378352	0.0039076
1098.09	0.0331324	0.0036109
1098.57	0.0295766	0.0037802
1099.05	0.0314124	0.0039623
1099.54	0.0323806	0.0038255
1100.02	0.0299308	0.0036116
1100.5	0.0276459	0.0039502
1100.98	0.0296234	0.0040069
1101.46	0.033506	0.0035454
1101.95	0.024803	0.0038048
1102.43	0.0249941	0.004008
1102.91	0.0333007	0.0036811
1103.39	0.0280888	0.003693
1103.88	0.0232955	0.0039218
1104.36	0.0279803	0.0037857
1104.84	0.0326593	0.0036264
1105.32	0.0288166	0.0038461
1105.8	0.0278162	0.0039029
1106.29	0.0349469	0.0036007
1106.77	0.0331097	0.0038844
1107.25	0.0258189	0.0039396
1107.73	0.0242339	0.0036238
1108.22	0.0285049	0.0037514
1108.7	0.0326193	0.0039988
1109.18	0.0244152	0.0038193
1109.66	0.0226193	0.003591
1110.14	0.0275281	0.0040155
1110.63	0.0284705	0.0038326
1111.11	0.0271021	0.0034891
1111.59	0.0274113	0.0037705
1112.07	0.030368	0.0040241
1112.56	0.0273163	0.0036717
1113.04	0.0241337	0.0036879
1113.52	0.0298732	0.0040521
1114	0.0383616	0.0037651
1114.48	0.0378731	0.0036392
1114.97	0.0288675	0.0039571
1115.45	0.0282959	0.0040326
1115.93	0.0263972	0.0037328
1116.41	0.0232963	0.0038384
1116.89	0.0220436	0.0039842
1117.38	0.0195638	0.0037706
1117.86	0.0234219	0.0037749
1118.34	0.0231644	0.0040218

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1118.82	0.0168635	0.0038087
1119.31	0.0200425	0.003684
1119.79	0.0250734	0.0039334
1120.27	0.0207004	0.0039031
1120.75	0.0193191	0.0036412
1121.23	0.023089	0.0039039
1121.72	0.023297	0.0040653
1122.2	0.0194834	0.0037218
1122.68	0.0178384	0.0037153
1123.16	0.0233337	0.0039981
1123.65	0.0240872	0.0039195
1124.13	0.019466	0.0036423
1124.61	0.0202585	0.0039478
1125.09	0.0203367	0.0041077
1125.57	0.0196862	0.0037882
1126.06	0.0159535	0.0038476
1126.54	0.0185245	0.0040778
1127.02	0.0189742	0.0038085
1127.5	0.0164298	0.0036484
1127.98	0.0154642	0.0040379
1128.47	0.016244	0.0039389
1128.95	0.0180922	0.0037092
1129.43	0.0213777	0.0039554
1129.91	0.0144318	0.0040345
1130.4	0.0127744	0.0037073
1130.88	0.0169304	0.0039178
1131.36	0.0169875	0.0040855
1131.84	0.0134838	0.0038336
1132.32	0.0118985	0.0036247
1132.81	0.0170948	0.0040147
1133.29	0.0159996	0.0037364
1133.77	0.009812	0.0037165
1134.25	0.0162638	0.0039338
1134.74	0.0239436	0.0039846
1135.22	0.0223568	0.0036953
1135.7	0.0183238	0.0039803
1136.18	0.0255213	0.0041407
1136.66	0.0194505	0.0038548
1137.15	0.0124566	0.0037624
1137.63	0.0143258	0.004079
1138.11	0.0178318	0.0040083
1138.59	0.0135577	0.0036443
1139.07	0.0090682	0.0039283
1139.56	0.0126964	0.0040844
1140.04	0.016212	0.0036308

Methanol 24.97 Mole % 38.6 Torr MS25AV5 MS25AD5

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1140.52	0.0125209	0.0036915
1141	0.0186678	0.0040387
1141.49	0.0286837	0.0038511
1141.97	0.0146127	0.0039192
1142.45	0.0144341	0.004084
1142.93	0.0151334	0.0038996
1143.41	0.0095758	0.0037585
1143.9	0.0141336	0.0040345
1144.38	0.0206755	0.0039946
1144.86	0.0121343	0.0037043
1145.34	0.0061309	0.0038752
1145.83	0.0165611	0.0039613
1146.31	0.0143422	0.0037732
1146.79	0.0029269	0.0037593
1147.27	0.0119614	0.0040602
1147.75	0.0215177	0.0039656
1148.24	0.0090574	0.0036408
1148.72	0.0054569	0.0038606
1149.2	0.0177992	0.004164
1149.68	0.0142263	0.003639
1150.16	0.0017163	0.0038431
1150.65	0.0093867	0.0040065
1151.13	0.0137511	0.0039116
1151.61	0.0058105	0.0036464
1152.09	0.0083262	0.0039846
1152.58	0.016421	0.0039455
1153.06	0.0076711	0.0037716
1153.54	0.0062181	0.0039476
1154.02	0.0162229	0.0039094
1154.5	0.008066	0.0038337
1154.99	0.0007125	0.0038069
1155.47	0.0126752	0.003914
1155.95	0.0120291	0.0037473
1156.43	0.0008716	0.0036894
1156.92	0.0121409	0.0039995
1157.4	0.0203139	0.0039226
1157.88	0.0045904	0.0036958
1158.36	0.0021262	0.0039569
1158.84	0.0182363	0.0040162
1159.33	0.0122442	0.003743
1159.81	0.0003431	0.0037684
1160.29	0.0137224	0.0040895
1160.77	0.0198476	0.0038021
1161.26	0.0049211	0.0036817
1161.74	0.0046358	0.0040019

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1162.22	0.0180919	0.0039662
1162.7	0.0088111	0.0036761
1163.18	0.004065	0.003785
1163.67	0.0157419	0.0040219
1164.15	0.0167484	0.0038137
1164.63	0.0090397	0.0037395
1165.11	0.0130773	0.0040801
1165.59	0.0144097	0.0040042
1166.08	0.0043158	0.0037471
1166.56	0.0067037	0.0040049
1167.04	0.0124885	0.0040139
1167.52	0.0041691	0.00365
1168.01	0.0032113	0.004036
1168.49	0.0137192	0.0040093
1168.97	0.0087953	0.0037532
1169.45	-0.0012066	0.0037699
1169.93	0.0116906	0.0040166
1170.42	0.016199	0.0038454
1170.9	-0.0008131	0.0036749
1171.38	0.002959	0.0040031
1171.86	0.019162	0.0039509
1172.35	0.0055931	0.0036554
1172.83	-0.0021887	0.0037933
1173.31	0.0151224	0.004067
1173.79	0.0155974	0.0037804
1174.27	0.0004916	0.0037206
1174.76	0.0103028	0.0039914
1175.24	0.0191216	0.003779
1175.72	0.005583	0.0036657
1176.2	0.0054366	0.0039574
1176.68	0.0178931	0.0039629
1177.17	0.0111207	0.003721
1177.65	0.0032688	0.0038601
1178.13	0.0152291	0.0039681
1178.61	0.0152641	0.0038677
1179.1	0.0022648	0.0038021
1179.58	0.013549	0.0039053
1180.06	0.0209085	0.0038455
1180.54	0.0050961	0.0036534
1181.02	0.007889	0.0039843
1181.51	0.0228181	0.0038581
1181.99	0.0145557	0.0037094
1182.47	0.0048567	0.0038584
1182.95	0.0221982	0.0040875
1183.44	0.0223448	0.0037658

Methanol 24.97 Mole % 38.6 Torr MS25AV5
MS25AD5

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1183.92	0.0068524	0.003764
1184.4	0.0140435	0.0041257
1184.88	0.0254674	0.0039345
1185.36	0.0131659	0.0037032
1185.85	0.0072587	0.0039721
1186.33	0.0245861	0.0040325
1186.81	0.0226521	0.0036598
1187.29	0.0101175	0.0039176
1187.77	0.0209685	0.0040888
1188.26	0.0245748	0.0037843
1188.74	0.0133856	0.0038037
1189.22	0.014851	0.0040164
1189.7	0.0258966	0.0039105
1190.19	0.0162738	0.0037759
1190.67	0.0131645	0.004092
1191.15	0.0252001	0.0038876
1191.63	0.0203311	0.0037542
1192.11	0.0139474	0.0039347
1192.6	0.0246046	0.0040366
1193.08	0.0259107	0.0037877
1193.56	0.0136651	0.0038279
1194.04	0.0201497	0.004001
1194.53	0.0323398	0.0038172
1195.01	0.019762	0.0037666
1195.49	0.0198825	0.0040271
1195.97	0.0343952	0.0040477
1196.45	0.026989	0.0037017
1196.94	0.0180782	0.0038248
1197.42	0.0301913	0.0040487
1197.9	0.0380188	0.0037938
1198.38	0.0182626	0.0037557
1198.86	0.0246276	0.0041113
1199.35	0.0368015	0.0039164
1199.83	0.0255918	0.0036974
1200.31	0.0207067	0.0038737
1200.79	0.0356958	0.0040052
1201.28	0.0351734	0.0037286
1201.76	0.024721	0.0040052
1202.24	0.0417777	0.0040158
1202.72	0.0421793	0.0037901
1203.2	0.0248125	0.0038685
1203.69	0.0287081	0.0041076
1204.17	0.0423809	0.003898
1204.65	0.0299023	0.0037767
1205.13	0.024482	0.0039909

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1205.62	0.0417136	0.0039296
1206.1	0.0370226	0.0036943
1206.58	0.023474	0.0039754
1207.06	0.0361801	0.004102
1207.54	0.0497372	0.0038099
1208.03	0.0300358	0.0037841
1208.51	0.0325801	0.0041961
1208.99	0.0530119	0.0038462
1209.47	0.0356512	0.0038846
1209.95	0.0235032	0.0040634
1210.44	0.0374776	0.0039563
1210.92	0.0463205	0.0037144
1211.4	0.0327234	0.0037981
1211.88	0.0389683	0.003959
1212.37	0.0534143	0.0037595
1212.85	0.0452985	0.0038028
1213.33	0.037907	0.0040616
1213.81	0.0517417	0.0039028
1214.29	0.0531618	0.003962
1214.78	0.040245	0.0042117
1215.26	0.0429447	0.0040563
1215.74	0.0409129	0.003941
1216.22	0.0304139	0.0040466
1216.71	0.0359589	0.0042069
1217.19	0.0421083	0.0037836
1217.67	0.0298881	0.0039027
1218.15	0.0329286	0.004206
1218.63	0.0436369	0.0039177
1219.12	0.0338957	0.0037667
1219.6	0.0275782	0.0040215
1220.08	0.0424733	0.0040772
1220.56	0.0449814	0.0037968
1221.05	0.026124	0.0039956
1221.53	0.0369379	0.0041152
1222.01	0.044995	0.0038249
1222.49	0.0353433	0.0037307
1222.97	0.033015	0.004023
1223.46	0.0439972	0.0039209
1223.94	0.0426773	0.0037199
1224.42	0.0367604	0.0039869
1224.9	0.051602	0.0039321
1225.38	0.0579817	0.0038542
1225.87	0.0389322	0.0039804
1226.35	0.0401181	0.0041806
1226.83	0.0447753	0.0038744

Methanol 24.97 Mole % 38.6 Torr MS25AV5
MS25AD5

WN (cm-1)	AVE (A.U.)	AD (A.U.)	WN (cm-1)	AVE (A.U.)	AD (A.U.)
1227.31	0.0403524	0.0040222	1249.01	0.0558899	0.0040128
1227.8	0.038829	0.0042574	1249.49	0.0577207	0.0038152
1228.28	0.0549818	0.0041057	1249.98	0.0484435	0.0040365
1228.76	0.0431706	0.004001	1250.46	0.0487053	0.0040876
1229.24	0.0277737	0.0042002	1250.94	0.0544201	0.0039386
1229.72	0.0387909	0.0040531	1251.42	0.0459215	0.0038277
1230.21	0.0336688	0.0037422	1251.9	0.0463487	0.0040587
1230.69	0.0240647	0.0039458	1252.39	0.0545652	0.0038741
1231.17	0.0304594	0.0040949	1252.87	0.0503908	0.0038787
1231.65	0.0428719	0.003605	1253.35	0.0454752	0.0039704
1232.14	0.0376966	0.0037878	1253.83	0.0561978	0.004057
1232.62	0.0431169	0.0040989	1254.32	0.0572964	0.0037353
1233.1	0.0536453	0.0039717	1254.8	0.0462802	0.0038512
1233.58	0.0490313	0.0038928	1255.28	0.0527033	0.0040214
1234.06	0.0347117	0.0042478	1255.76	0.0613299	0.003694
1234.55	0.0356574	0.0041673	1256.24	0.0546587	0.0037263
1235.03	0.0440998	0.0038657	1256.73	0.0526768	0.0041338
1235.51	0.0270612	0.0039928	1257.21	0.0622948	0.0038699
1235.99	0.0275782	0.0040382	1257.69	0.059103	0.0038045
1236.47	0.0440185	0.0037775	1258.17	0.052135	0.0040041
1236.96	0.0411575	0.0037822	1258.65	0.0558699	0.0040837
1237.44	0.0299777	0.0039909	1259.14	0.0586566	0.0038195
1237.92	0.0450288	0.0037937	1259.62	0.0499347	0.0040046
1238.4	0.0506516	0.003653	1260.1	0.0556919	0.0040753
1238.89	0.0533209	0.0039529	1260.58	0.0628979	0.0040684
1239.37	0.0549245	0.004012	1261.07	0.0514964	0.0039111
1239.85	0.0609924	0.0039628	1261.55	0.0533141	0.0040701
1240.33	0.0451535	0.0040387	1262.03	0.0603184	0.0039638
1240.81	0.0473431	0.0042368	1262.51	0.0559308	0.003929
1241.3	0.0515545	0.003859	1262.99	0.0550101	0.0041855
1241.78	0.0377604	0.0040031	1263.48	0.0549741	0.0041349
1242.26	0.03743	0.004234	1263.96	0.0586258	0.0038842
1242.74	0.0556023	0.0039408	1264.44	0.0519545	0.0041466
1243.23	0.04583	0.0039125	1264.92	0.0532916	0.0042007
1243.71	0.0320527	0.0040624	1265.41	0.0593399	0.0038877
1244.19	0.0475574	0.0040562	1265.89	0.0535188	0.0040734
1244.67	0.0507954	0.0037662	1266.37	0.0497179	0.0044077
1245.15	0.0329669	0.0040876	1266.85	0.0613956	0.0038924
1245.64	0.0367613	0.0040554	1267.33	0.0589373	0.0039229
1246.12	0.0516138	0.0038234	1267.82	0.0513291	0.0042356
1246.6	0.0407909	0.0037928	1268.3	0.0579812	0.0041697
1247.08	0.0354975	0.0039611	1268.78	0.0625239	0.0039666
1247.56	0.0495637	0.0038936	1269.26	0.0566652	0.0041721
1248.05	0.0513555	0.003752	1269.74	0.0554205	0.0041571
1248.53	0.0435735	0.0039369	1270.23	0.061868	0.0040152

Methanol 24.97 Mole % 38.6 Torr MS25AV5
MS25AD5

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1270.71	0.0575448	0.0038991
1271.19	0.0482724	0.0042522
1271.67	0.057805	0.0041012
1272.16	0.0608537	0.0039932
1272.64	0.0508888	0.0041627
1273.12	0.0527367	0.0040463
1273.6	0.0597795	0.0039536
1274.08	0.0508551	0.0041687
1274.57	0.0527746	0.0041821
1275.05	0.0598779	0.0040436
1275.53	0.0522186	0.0039565
1276.01	0.0520312	0.0043106
1276.5	0.0588384	0.00403
1276.98	0.0553039	0.0040392
1277.46	0.0487278	0.0041797
1277.94	0.0554511	0.0040067
1278.42	0.059599	0.0037842
1278.91	0.050967	0.0042543
1279.39	0.0556605	0.0041969
1279.87	0.0612596	0.0038589
1280.35	0.0567958	0.0040202
1280.84	0.0528969	0.0042442
1281.32	0.0573858	0.0040907
1281.8	0.0634616	0.0038613
1282.28	0.0536414	0.0041198
1282.76	0.0569806	0.0040951
1283.25	0.0638639	0.0038231
1283.73	0.0637213	0.0040164
1284.21	0.061315	0.0042348
1284.69	0.0613511	0.003897
1285.17	0.0619723	0.0040034
1285.66	0.0580689	0.0040912
1286.14	0.0582696	0.0040108
1286.62	0.0611	0.0039089
1287.1	0.0660418	0.0040953
1287.59	0.0626745	0.0040135
1288.07	0.0570632	0.0038708
1288.55	0.0633452	0.0041416
1289.03	0.0699527	0.0040728
1289.51	0.0657368	0.0038863
1290	0.0626504	0.0040649
1290.48	0.0689529	0.0041788
1290.96	0.0732358	0.0039197
1291.44	0.0628772	0.0037792
1291.93	0.0698549	0.0041094

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1292.41	0.0815505	0.0039443
1292.89	0.0834379	0.003791
1293.37	0.0801674	0.0041066
1293.85	0.0936495	0.0041512
1294.34	0.0837904	0.0039581
1294.82	0.0811061	0.0040974
1295.3	0.077638	0.004319
1295.78	0.0827949	0.0041881
1296.26	0.0873335	0.0039473
1296.75	0.0782845	0.0042727
1297.23	0.0844582	0.004166
1297.71	0.0830143	0.0039947
1298.19	0.0850987	0.0042043
1298.68	0.0808549	0.0041612
1299.16	0.0866337	0.0038944
1299.64	0.0874692	0.0039383
1300.12	0.0846147	0.0042315
1300.6	0.094683	0.0040568
1301.09	0.0868361	0.0039958
1301.57	0.0909977	0.0040848
1302.05	0.0963982	0.0039814
1302.53	0.102541	0.0039102
1303.02	0.0960692	0.0042182
1303.5	0.092716	0.0043155
1303.98	0.102524	0.0037801
1304.46	0.0966621	0.0041145
1304.94	0.0951924	0.00436
1305.43	0.0960495	0.0037249
1305.91	0.11074	0.0040425
1306.39	0.106719	0.0041546
1306.87	0.0949088	0.0041471
1307.35	0.107083	0.003873
1307.84	0.111354	0.0042578
1308.32	0.111313	0.0042004
1308.8	0.115977	0.0040169
1309.28	0.121652	0.0042821
1309.77	0.111331	0.0044624
1310.25	0.100894	0.0040361
1310.73	0.100207	0.0042353
1311.21	0.109398	0.0041975
1311.69	0.109632	0.0040441
1312.18	0.111574	0.0039843
1312.66	0.11685	0.0043583
1313.14	0.104956	0.0042947
1313.62	0.108185	0.0039455

Methanol 24.97 Mole % 38.6 Torr MS25AV5
MS25AD5

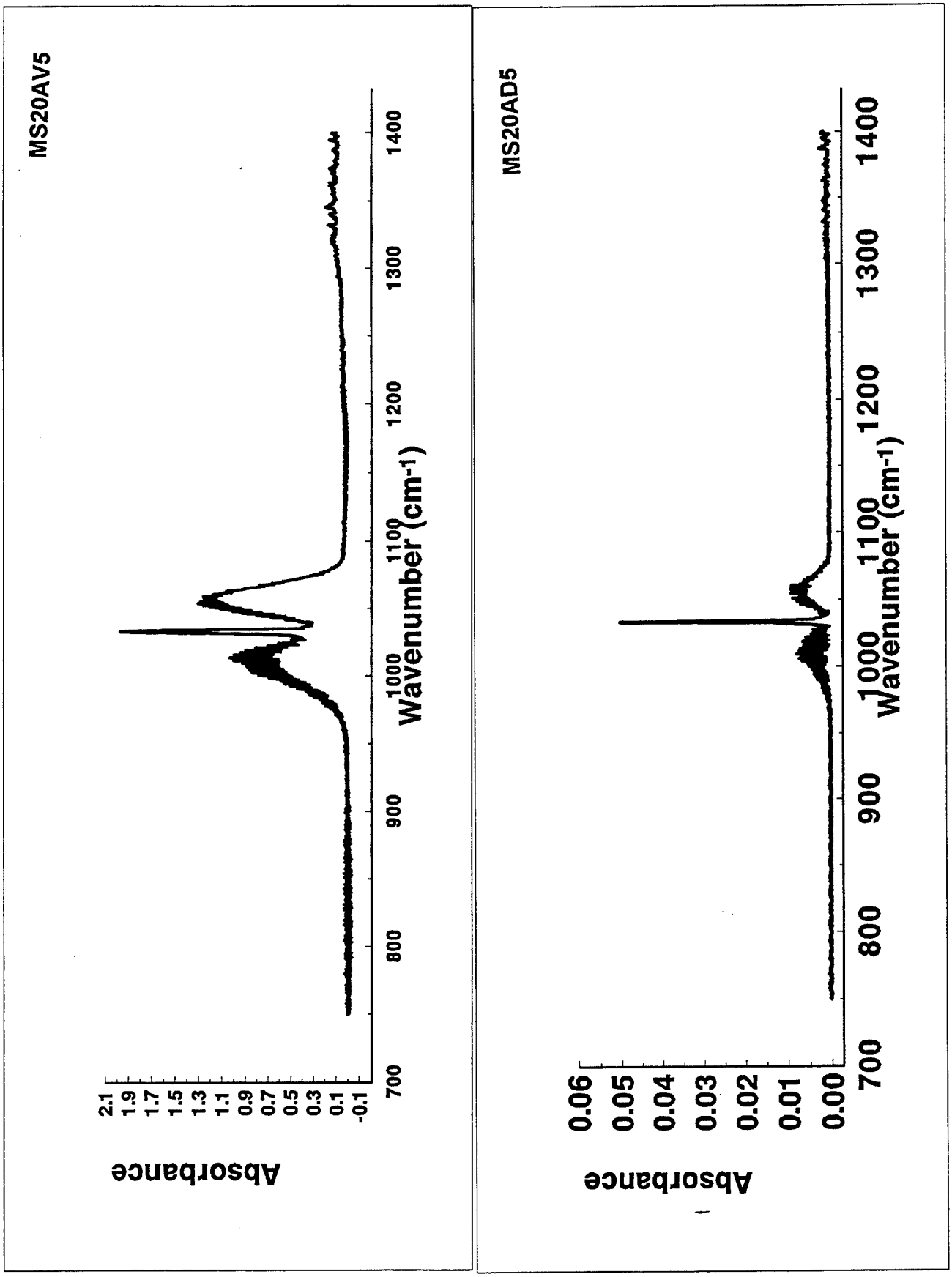
WN (cm-1)	AVE (A.U.)	AD (A.U.)
1314.11	0.100191	0.0041348
1314.59	0.110812	0.0042676
1315.07	0.121784	0.0038505
1315.55	0.117368	0.0041103
1316.03	0.105632	0.0041864
1316.52	0.112875	0.0038737
1317	0.13182	0.0035348
1317.48	0.132075	0.004122
1317.96	0.146863	0.0043141
1318.44	0.130103	0.0038587
1318.93	0.146665	0.0040696
1319.41	0.122388	0.0044265
1319.89	0.130588	0.004168
1320.37	0.156359	0.0041726
1320.86	0.154273	0.0045666
1321.34	0.144285	0.0041914
1321.82	0.159229	0.0042941
1322.3	0.148034	0.0045207
1322.78	0.125203	0.0042605
1323.27	0.128294	0.0042242
1323.75	0.142321	0.0045902
1324.23	0.146568	0.0045851
1324.71	0.118115	0.004136
1325.2	0.118763	0.0044124
1325.68	0.135135	0.0046504
1326.16	0.130658	0.0042496
1326.64	0.119918	0.0041813
1327.12	0.120324	0.0044884
1327.61	0.123911	0.0043574
1328.09	0.114204	0.0038944
1328.57	0.113494	0.0039679
1329.05	0.131243	0.0041426
1329.54	0.128214	0.0036553
1330.02	0.122694	0.0039078
1330.5	0.142097	0.0040387
1330.98	0.158677	0.0041559
1331.46	0.174413	0.004072
1331.95	0.189321	0.0048912
1332.43	0.155522	0.0049456
1332.91	0.11363	0.0045629
1333.39	0.113259	0.0046716
1333.87	0.111289	0.0044854
1334.36	0.108893	0.0041877
1334.84	0.103965	0.0040086
1335.32	0.112001	0.0039187

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1335.8	0.111704	0.0036318
1336.29	0.108332	0.0034006
1336.77	0.127801	0.0035817
1337.25	0.118969	0.0035815
1337.73	0.118972	0.0032929
1338.21	0.125291	0.0036514
1338.7	0.15546	0.0038044
1339.18	0.154105	0.0035865
1339.66	0.165296	0.0044129
1340.14	0.168253	0.0048725
1340.63	0.157338	0.0050181
1341.11	0.11786	0.0047615
1341.59	0.125994	0.0044608
1342.07	0.130283	0.0042134
1342.55	0.128964	0.003951
1343.04	0.12975	0.0038943
1343.52	0.135553	0.0038355
1344	0.141394	0.0033033
1344.48	0.165563	0.0033671
1344.96	0.211169	0.003932
1345.45	0.218315	0.0040819
1345.93	0.183038	0.0043788
1346.41	0.167176	0.0047331
1346.89	0.179557	0.0045735
1347.38	0.180153	0.0046611
1347.86	0.142854	0.0048148
1348.34	0.143766	0.0048739
1348.82	0.140388	0.0043789
1349.3	0.132344	0.0046954
1349.79	0.137584	0.0046053
1350.27	0.125171	0.0042259
1350.75	0.11285	0.0042446
1351.23	0.119301	0.0044923
1351.72	0.12429	0.0040206
1352.2	0.124447	0.0038894
1352.68	0.123433	0.0040907
1353.16	0.128507	0.0041504
1353.64	0.140434	0.0037303
1354.13	0.131291	0.0039795
1354.61	0.133044	0.0041485
1355.09	0.147494	0.0037726
1355.57	0.130697	0.0041134
1356.05	0.127872	0.0042772
1356.54	0.136876	0.0040911
1357.02	0.146765	0.0039128

Methanol 24.97 Mole % 38.6 Torr MS25AV5
MS25AD5

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1357.5	0.140926	0.0042332
1357.98	0.144032	0.0039851
1358.47	0.147935	0.0037406
1358.95	0.129654	0.0041358
1359.43	0.137037	0.0038968
1359.91	0.154829	0.0033338
1360.39	0.155331	0.0036615
1360.88	0.145632	0.003997
1361.36	0.166146	0.0040069
1361.84	0.138175	0.0039164
1362.32	0.125542	0.0044169
1362.81	0.160212	0.0046145
1363.29	0.165795	0.0046933
1363.77	0.110759	0.0047996
1364.25	0.124701	0.0045463
1364.73	0.136982	0.0043064
1365.22	0.113971	0.004366
1365.7	0.118828	0.0043308
1366.18	0.130416	0.0040935
1366.66	0.110584	0.003934
1367.14	0.112527	0.0040912
1367.63	0.130404	0.0040717
1368.11	0.117709	0.0039742
1368.59	0.124873	0.0041428
1369.07	0.131645	0.0044007
1369.56	0.123818	0.0041964
1370.04	0.130686	0.0042667
1370.52	0.152727	0.004309
1371	0.145458	0.0043299
1371.48	0.124309	0.003945
1371.97	0.135899	0.0042204
1372.45	0.156225	0.0042978
1372.93	0.129922	0.0040049
1373.41	0.124359	0.0044784
1373.9	0.160461	0.0045949
1374.38	0.12877	0.0047298
1374.86	0.112663	0.0048536
1375.34	0.135363	0.0051693
1375.82	0.125581	0.0048183
1376.31	0.109756	0.0045706
1376.79	0.101093	0.004743
1377.27	0.118916	0.00477
1377.75	0.116073	0.0042311
1378.23	0.107659	0.0044136
1378.72	0.113806	0.004432

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1379.2	0.126629	0.004195
1379.68	0.121385	0.0045755
1380.16	0.120737	0.0045692
1380.65	0.11452	0.004593
1381.13	0.0966324	0.0046144
1381.61	0.103067	0.0045983
1382.09	0.107998	0.0044572
1382.57	0.097343	0.0042888
1383.06	0.0968126	0.0044433
1383.54	0.102627	0.0042093
1384.02	0.0999038	0.0038639
1384.5	0.0951136	0.0035993
1384.99	0.111161	0.0039473
1385.47	0.118158	0.0032721
1385.95	0.100086	0.0034878
1386.43	0.116822	0.0037943
1386.91	0.132632	0.0040839
1387.4	0.127229	0.0039705
1387.88	0.130935	0.0055602
1388.36	0.119888	0.0050704
1388.84	0.116532	0.0049333
1389.33	0.0995834	0.0050938
1389.81	0.101813	0.0047047
1390.29	0.1037	0.004616
1390.77	0.0940296	0.0041439
1391.25	0.0972142	0.0040471
1391.74	0.107863	0.0037855
1392.22	0.0993528	0.0033113
1392.7	0.0963999	0.0033013
1393.18	0.111457	0.003282
1393.66	0.113244	0.003088
1394.15	0.120434	0.0035931
1394.63	0.155221	0.0039327
1395.11	0.118539	0.0044364
1395.59	0.107227	0.0042263
1396.08	0.116815	0.0049063
1396.56	0.110421	0.0043934
1397.04	0.104327	0.0040683
1397.52	0.0951606	0.0041909
1398	0.119994	0.0043766
1398.49	0.117538	0.0038
1398.97	0.115487	0.0045656
1399.45	0.134676	0.0056387
1399.93	0.104123	0.004854


MS20AV5
Absorbance
2.1
1.9
1.7
1.5
1.3
1.1
0.9
0.7
0.5
0.3
0.1
-0.1
700
800
900
1000
1100
1200
1300
1400
Wavenumber (cm-1)
MS20AD5
Absorbance
0.06
0.05
0.04
0.03
0.02
0.01
0.00
700
800
900
1000
1100
1200
1300
1400
Wavenumber (cm-1)

Methanol 20.00 Mole % 33.0 Torr MS20AV5
MS20AD5

WN (cm-1)	AVE (A.U.)	AD (A.U.)
749.927	-0.005085	0.0001517
750.409	-0.0059938	0.0002884
750.891	-0.0101742	0.0002604
751.373	-0.0118949	0.000199
751.856	-0.0055526	0.0001478
752.338	-0.0024141	0.0001877
752.82	-0.0128096	0.0003091
753.302	-0.0152467	0.0002542
753.785	-0.0019245	0.0000125
754.267	-0.0007763	0.0000907
754.749	-0.0179343	0.0002372
755.231	-0.0158094	0.0000369
755.714	0.0030381	0.0004695
756.196	-0.0026061	0.0003262
756.678	-0.0224597	0.0003301
757.16	-0.0108858	0.0002963
757.643	0.0069186	0.0005644
758.125	-0.0088054	0.0005338
758.607	-0.0196254	0.0002755
759.089	-0.002777	0.0004226
759.571	0.0022001	0.0002208
760.054	-0.0143413	0.0004303
760.536	-0.0124366	0.0002172
761.018	-0.001141	0.0005689
761.5	-0.0083056	0.0001013
761.983	-0.0105074	0.0004958
762.465	-0.0047899	0.0001978
762.947	-0.0097018	0.0000591
763.429	-0.0135902	0.000327
763.912	-0.0036998	0.0001929
764.394	-0.0047745	0.0000878
764.876	-0.017451	0.000156
765.358	-0.0096346	0.0000409
765.841	0.0033707	0.0000796
766.323	-0.0111084	0.000328
766.805	-0.0224814	0.0001891
767.287	-0.001024	0.0003848
767.77	0.0061687	0.0001113
768.252	-0.0206972	0.0006224
768.734	-0.0199606	0.0001806
769.216	0.0069844	0.00047
769.698	-0.0016449	0.0002764
770.181	-0.0256916	0.0004671
770.663	-0.008639	0.0002232
771.145	0.0082194	0.000349

WN (cm-1)	AVE (A.U.)	AD (A.U.)
771.627	-0.0137328	0.0004629
772.11	-0.019978	0.0002527
772.592	0.0007023	0.0004704
773.074	-0.0028115	0.0002046
773.556	-0.0173034	0.000298
774.039	-0.008119	0.0001676
774.521	-0.002898	0.0002346
775.003	-0.0157167	0.00009
775.485	-0.0111939	0.0000461
775.968	0.0006745	0.000157
776.45	-0.012315	0.0001398
776.932	-0.0163843	0.0000827
777.414	0.008323	0.000235
777.897	0.004015	0.0003303
778.379	-0.0225358	0.0002833
778.861	-0.0037393	0.0002059
779.343	0.0197566	0.0000714
779.825	-0.0069111	0.0005906
780.308	-0.0209472	0.000132
780.79	0.0113773	0.0003491
781.272	0.0089107	0.0001457
781.754	-0.0269326	0.0004568
782.237	-0.0164513	0.0002814
782.719	0.0119494	0.0002908
783.201	-0.008938	0.0003208
783.683	-0.026859	0.0003549
784.166	-0.0021938	0.0002583
784.648	0.0037879	0.0000715
785.13	-0.0209417	0.0003798
785.612	-0.0129988	0.000132
786.095	0.0034381	0.0003026
786.577	-0.013284	0.0002961
787.059	-0.0177959	0.0001637
787.541	0.0015687	0.0002253
788.024	-0.007218	0.000164
788.506	-0.0231976	0.0002598
788.988	-0.0026426	0.0002837
789.47	0.0061955	0.0003153
789.952	-0.0233528	0.0001628
790.435	-0.017714	0.000178
790.917	0.0139192	0.0002758
791.399	-0.0063989	0.0003846
791.881	-0.032024	0.0001653
792.364	0.000645	0.0004754
792.846	0.0146509	0.0002718

Methanol 20.00 Mole % 33.0 Torr MS20AV5
MS20AD5

WN (cm-1)	AVE (A.U.)	AD (A.U.)	WN (cm-1)	AVE (A.U.)	AD (A.U.)
793.328	-0.0242803	0.0005679	815.029	-0.0310631	0.0002592
793.81	-0.0226229	0.0000713	815.511	-0.0106996	0.0002558
794.293	0.0148918	0.0003815	815.993	0.0221978	0.0000996
794.775	-0.0007301	0.0003805	816.476	-0.0132919	0.000446
795.257	-0.0294976	0.0003949	816.958	-0.0314318	0.0000459
795.739	-0.0038727	0.0003778	817.44	0.0126712	0.0003633
796.222	0.0119761	0.0001827	817.922	0.0124678	0.0001917
796.704	-0.0177766	0.0004349	818.405	-0.0302339	0.000463
797.186	-0.0173234	0.000244	818.887	-0.011631	0.0003297
797.668	0.0070016	0.0002129	819.369	0.0227119	0.000097
798.151	-0.0059958	0.0001651	819.851	-0.0078283	0.000403
798.633	-0.0204559	0.0002798	820.334	-0.0242527	0.0002095
799.115	0.0005298	0.0000798	820.816	0.0109375	0.0002596
799.597	0.0018792	0.0001847	821.298	0.0083824	0.0002188
800.08	-0.0218011	0.0000635	821.78	-0.0244662	0.0002109
800.562	-0.0071356	0.0002561	822.262	-0.0073635	0.0001038
801.044	0.0100414	0.0002066	822.745	0.0106204	0.0001037
801.526	-0.0171197	0.0003181	823.227	-0.0171712	0.0001533
802.008	-0.0224085	0.0001206	823.709	-0.0173965	0.0001598
802.491	0.012481	0.0002428	824.191	0.012225	0.0001042
802.973	0.0021813	0.000443	824.674	-0.0056069	0.0003009
803.455	-0.0319714	0.0000689	825.156	-0.0261834	0.0001487
803.937	-0.0055749	0.000389	825.638	0.0057887	0.0001969
804.42	0.0206811	0.0001031	826.12	0.0091537	0.0002929
804.902	-0.0186171	0.0005649	826.603	-0.0283666	0.0001114
805.384	-0.0279363	0.000149	827.085	-0.012358	0.0004303
805.866	0.0157545	0.0005012	827.567	0.0232918	0.0001883
806.349	0.0086012	0.0002974	828.049	-0.0097526	0.0003819
806.831	-0.0310313	0.0004782	828.532	-0.0321258	0.0002141
807.313	-0.008757	0.0003989	829.014	0.0116746	0.0005459
807.795	0.0172558	0.0000626	829.496	0.0142291	0.0004666
808.278	-0.0146928	0.0004162	829.978	-0.0311004	0.0003696
808.76	-0.0246853	6.87E-06	830.461	-0.0156514	0.0003455
809.242	0.0073468	0.0002817	830.943	0.0210693	0.0000512
809.724	0.0001196	0.0002213	831.425	-0.0090972	0.0004513
810.206	-0.0255483	0.00027	831.907	-0.0304602	0.0002169
810.689	-0.0048563	0.0001364	832.39	0.0059377	0.0002539
811.171	0.0063774	0.0001877	832.872	0.0080564	0.000198
811.653	-0.0212167	0.0001126	833.354	-0.0265598	0.0002333
812.135	-0.0138035	0.0001144	833.836	-0.0111116	0.0002668
812.618	0.0115551	0.0001752	834.318	0.0115459	0.0001556
813.1	-0.0129609	0.0003071	834.801	-0.015068	0.0001572
813.582	-0.0262888	0.0002007	835.283	-0.0203203	0.0002814
814.064	0.0090288	0.0002099	835.765	0.0096439	0.000185
814.547	0.0066746	0.0005001	836.247	-0.0043923	0.0002428

Methanol 20.00 Mole % 33.0 Torr MS20AV5
MS20AD5

WN (cm-1)	AVE (A.U.)	AD (A.U.)
836.73	-0.0260526	0.0002419
837.212	0.0038747	0.0002726
837.694	0.0100697	0.0003825
838.176	-0.0259503	0.0001601
838.659	-0.0134285	0.0003732
839.141	0.0201609	0.0002208
839.623	-0.0100648	0.0004661
840.105	-0.0310248	0.0002373
840.588	0.0112363	0.0003251
841.07	0.0139068	0.0004794
841.552	-0.030242	0.0002878
842.034	-0.014658	0.000367
842.516	0.021339	0.0001246
842.999	-0.0093781	0.0004218
843.481	-0.0308087	0.0001482
843.963	0.0068391	0.0001982
844.445	0.008982	0.0002057
844.928	-0.0249517	0.0002727
845.41	-0.0103244	0.0000775
845.892	0.0129634	0.0001663
846.374	-0.0122134	0.0002179
846.857	-0.0201345	0.0002233
847.339	0.0080289	0.0001136
847.821	-0.0023025	0.0002013
848.303	-0.0237097	0.000215
848.786	0.0027497	0.0001509
849.268	0.0086723	0.0004433
849.75	-0.0233183	0.0000828
850.232	-0.0116143	0.0002927
850.715	0.0181433	0.0003817
851.197	-0.0110681	0.0003522
851.679	-0.02816	0.0002935
852.161	0.0119081	0.0003371
852.644	0.0112215	0.0005093
853.126	-0.0296161	0.0001346
853.608	-0.0118379	0.000463
854.09	0.021014	0.0002143
854.572	-0.0113008	0.0002692
855.055	-0.0297082	0.0001942
855.537	0.0088516	0.0002432
856.019	0.0078669	0.0003244
856.501	-0.0267023	0.0001779
856.984	-0.010168	0.0002607
857.466	0.0125214	0.000124
857.948	-0.0127072	0.0001898

WN (cm-1)	AVE (A.U.)	AD (A.U.)
858.43	-0.018899	0.0002062
858.913	0.0089769	0.0002402
859.395	0.0004392	0.0002483
859.877	-0.0183547	0.0001591
860.359	0.0041903	0.0002954
860.842	0.0067384	0.0003396
861.324	-0.0207426	0.0001591
861.806	-0.0085416	0.000274
862.288	0.0147418	0.0004203
862.771	-0.0125756	0.0003373
863.253	-0.0236655	0.0003442
863.735	0.0123642	0.0002216
864.217	0.005894	0.0004535
864.699	-0.0290182	0.0000904
865.182	-0.0068188	0.0002357
865.664	0.0187066	0.0004486
866.146	-0.0139232	0.000349
866.628	-0.0248672	0.000245
867.111	0.0115439	0.0001145
867.593	0.004993	0.0002091
868.075	-0.0259325	0.0002511
868.557	-0.0071836	0.0001558
869.04	0.0126157	0.0001529
869.522	-0.0135796	0.0001622
870.004	-0.0175871	0.0002145
870.486	0.0073801	0.0003304
870.969	-0.0029321	0.0001863
871.451	-0.0178804	0.0002351
871.933	0.0033875	0.0003056
872.415	0.0051545	0.0003164
872.898	-0.0155285	0.0001078
873.38	-0.0014358	0.0002016
873.862	0.0112613	0.0004844
874.344	-0.0135013	0.0000909
874.827	-0.0158733	0.0003144
875.309	0.0138523	0.0002141
875.791	0.0004853	0.0004544
876.273	-0.024644	0.0002078
876.756	0.0001599	0.0002385
877.238	0.014318	0.0003779
877.72	-0.0173183	0.0002627
878.202	-0.019809	0.0002949
878.684	0.0130495	0.0000601
879.167	0.0013011	0.0003516
879.649	-0.024578	0.000259

Methanol 20.00 Mole % 33.0 Torr MS20AV5
MS20AD5

WN (cm-1)	AVE (A.U.)	AD (A.U.)	WN (cm-1)	AVE (A.U.)	AD (A.U.)
880.131	-0.0030782	0.0001814	901.832	0.0094554	0.0003272
880.613	0.0101807	0.0002236	902.314	-0.0093958	0.0002848
881.096	-0.0150683	0.0001541	902.796	-0.0151223	0.0001802
881.578	-0.0146744	0.0002529	903.279	0.0040555	0.0000911
882.06	0.0062956	0.0001606	903.761	0.0018471	0.0002078
882.542	-0.0047627	0.0000847	904.243	-0.0140937	0.0001789
883.025	-0.0156107	0.0002471	904.725	-0.0064961	0.0001836
883.507	0.0012718	0.0003301	905.208	0.0042742	0.0001675
883.989	-2.51E-06	0.0002028	905.69	-0.0051458	0.0001802
884.471	-0.0150327	0.0001845	906.172	-0.0083758	0.0001272
884.954	-0.0014654	0.0002205	906.654	0.0002373	0.0002249
885.436	0.0057522	0.0003819	907.137	-0.0009787	0.0001066
885.918	-0.0137797	0.0000865	907.619	-0.004794	0.0001732
886.4	-0.0092713	0.0004388	908.101	0.0000977	0.0003821
886.882	0.0106739	0.000229	908.583	-0.0015349	0.0001741
887.365	-0.0053483	0.0004547	909.066	-0.0049211	0.0003364
887.847	-0.01969	0.0004012	909.548	0.0015761	0.0001611
888.329	0.0051016	0.0001691	910.03	0.0016932	0.0005512
888.811	0.0083085	0.0004343	910.512	-0.008699	0.0001583
889.294	-0.0185368	0.0001341	910.994	-0.0027805	0.0004447
889.776	-0.0120571	0.0003988	911.477	0.0063107	0.0003109
890.258	0.0120558	0.0002191	911.959	-0.0037307	0.0003496
890.74	-0.0048193	0.0003749	912.441	-0.0098818	0.0003445
891.223	-0.021434	0.0002028	912.923	0.0043333	0.0003305
891.705	0.001369	0.0002255	913.406	0.0044896	0.000424
892.187	0.0072059	0.0002193	913.888	-0.0098078	0.0001242
892.669	-0.0153533	0.0001253	914.37	-0.0069741	0.0003249
893.152	-0.0109531	0.0002524	914.852	0.0059102	0.0001902
893.634	0.0056146	0.0001909	915.335	-0.0004283	0.0002722
894.116	-0.0048012	0.0001539	915.817	-0.0092804	0.0003087
894.598	-0.0123715	0.0001406	916.299	-0.0005901	0.0000371
895.081	0.0007046	0.0002857	916.781	0.0029292	0.0002226
895.563	-0.0006796	0.0000778	917.263	-0.0038142	0.0002051
896.045	-0.0099928	0.0001964	917.746	-0.0054156	0.0001923
896.527	0.0001711	0.0002729	918.228	-0.0002774	0.0002337
897.009	0.0022183	0.0003481	918.71	0.0010281	0.0001011
897.492	-0.0100056	0.0002012	919.192	-0.0011405	0.0001318
897.974	-0.001606	0.000277	919.675	-0.0023959	0.0002493
898.456	0.0083971	0.0004158	920.157	-0.0022741	0.0000873
898.938	-0.0062574	0.0001529	920.639	0.0021816	0.0002531
899.421	-0.0072237	0.0003079	921.121	0.0016442	0.000314
899.903	0.0108898	0.0001353	921.604	-0.0032107	0.0003401
900.385	0.0024272	0.0004152	922.086	-0.0029452	0.0002835
900.867	-0.0169151	0.0002205	922.568	0.0040714	0.0002821
901.35	-0.0034584	0.0003699	923.05	0.0012064	0.0003459

Methanol 20.00 Mole % 33.0 Torr MS20AV5
MS20AD5

WN (cm-1)	AVE (A.U.)	AD (A.U.)
923.533	-0.0060775	0.0001349
924.015	-0.0001771	0.0003057
924.497	0.0056078	0.0003013
924.979	-0.0006542	0.0003645
925.462	-0.0044193	0.0002124
925.944	0.0009927	0.0001933
926.426	0.003462	0.0003208
926.908	-0.0019648	0.0003026
927.391	-0.0029517	0.0001937
927.873	0.0006473	0.0000757
928.355	0.00175	0.0003286
928.837	0.0000621	0.000094
929.319	-0.0022319	0.0002023
929.802	-0.0003905	0.0001803
930.284	0.0037079	0.0001512
930.766	0.0020543	0.0002022
931.248	-0.0036775	0.000309
931.731	0.0015961	0.0001565
932.213	0.0096006	0.00025
932.695	0.0018472	0.000427
933.177	-0.0033372	0.0001394
933.66	0.0068732	0.0002616
934.142	0.0079119	0.000334
934.624	-0.0029585	0.0003894
935.106	-0.0023463	0.0000834
935.589	0.0078841	0.0002408
936.071	0.003688	0.0004391
936.553	-0.0039141	0.0002665
937.035	0.0022013	0.0002559
937.518	0.0058132	0.0001345
938	0.000704	0.0003734
938.482	0.001538	0.0001515
938.964	0.0049787	0.0001539
939.447	0.0035264	0.0002793
939.929	0.0037486	0.0002018
940.411	0.0060132	0.0003166
940.893	0.0008269	0.0001584
941.375	0.0033509	0.0001368
941.858	0.0095732	0.0001948
942.34	0.0012732	0.0002727
942.822	-0.0040762	0.000179
943.304	0.0082932	0.0002236
943.787	0.0129508	0.0003115
944.269	-0.0028035	0.000431
944.751	-0.0002852	0.0001677

WN (cm-1)	AVE (A.U.)	AD (A.U.)
945.233	0.0143859	0.000307
945.716	0.0046427	0.0004456
946.198	-0.0041185	0.0003458
946.68	0.0094139	0.0003704
947.162	0.0144453	0.000247
947.645	-0.0015439	0.0005074
948.127	0.0006148	0.000196
948.609	0.0132617	0.0003233
949.091	0.0046603	0.0002363
949.573	0.0002669	0.0002432
950.056	0.0084073	0.0002676
950.538	0.0096154	0.000109
951.02	0.0063741	0.0002888
951.502	0.0121678	0.0001529
951.985	0.009754	0.0001659
952.467	0.0017134	0.0002447
952.949	0.0115226	0.0002134
953.431	0.0222847	0.0002497
953.914	0.0060355	0.0001998
954.396	0.0047999	0.0001322
954.878	0.0224089	0.0002624
955.36	0.0192897	0.0005404
955.843	0.0060698	0.0002539
956.325	0.0154084	0.0002721
956.807	0.025714	0.0002754
957.289	0.007404	0.0005253
957.772	0.01325	0.0002391
958.254	0.030724	0.0003749
958.736	0.0223046	0.0003914
959.218	0.0102825	0.0004063
959.7	0.0254361	0.000247
960.183	0.0372327	0.000147
960.665	0.0211802	0.0005968
961.147	0.0205014	0.0001781
961.629	0.0320683	0.0003802
962.112	0.0263674	0.0003585
962.594	0.0303559	0.0004351
963.076	0.0364512	0.0002526
963.558	0.0287812	0.000159
964.041	0.0232103	0.0003091
964.523	0.0436632	0.0004114
965.005	0.049363	0.0002452
965.487	0.0276527	0.0002417
965.97	0.0320633	0.0001949
966.452	0.0550744	0.0002519

Methanol 20.00 Mole % 33.0 Torr MS20AV5
MS20AD5

WN (cm-1)	AVE (A.U.)	AD (A.U.)
966.934	0.0526061	0.0005793
967.416	0.0421857	0.0002008
967.899	0.0592488	0.0003127
968.381	0.0609862	0.0006273
968.863	0.0535751	0.0007965
969.345	0.0725961	0.0003735
969.828	0.0797006	0.000423
970.31	0.0452282	0.0005944
970.792	0.0531024	0.0005589
971.274	0.0977072	0.0003389
971.757	0.0948588	0.0004011
972.239	0.0562326	0.0003134
972.721	0.0669132	0.0002754
973.203	0.1035	0.0007348
973.685	0.110672	0.000796
974.168	0.0901068	0.0004825
974.65	0.0820467	0.0003113
975.132	0.0957541	0.0009462
975.614	0.124566	0.0011299
976.097	0.144021	0.0007324
976.579	0.0965649	0.0004166
977.061	0.0898371	0.0008968
977.543	0.148471	0.0011423
978.026	0.18961	0.0007198
978.508	0.120845	0.0004309
978.99	0.102579	0.0005239
979.472	0.173405	0.0013544
979.955	0.210303	0.0016636
980.437	0.175425	0.0006809
980.919	0.131507	0.0004924
981.401	0.179051	0.0017533
981.884	0.21087	0.0018495
982.366	0.235702	0.0007394
982.848	0.17715	0.0005973
983.33	0.175898	0.0018288
983.812	0.224654	0.0021165
984.295	0.291003	0.0009069
984.777	0.232157	0.000816
985.259	0.173254	0.001449
985.741	0.254548	0.0021141
986.224	0.332161	0.0015885
986.706	0.296065	0.0011091
987.188	0.196557	0.0012112
987.67	0.293374	0.0022238
988.153	0.352262	0.0025094

WN (cm-1)	AVE (A.U.)	AD (A.U.)
988.635	0.361174	0.0010789
989.117	0.252277	0.000628
989.599	0.315278	0.0024041
990.082	0.369535	0.0031211
990.564	0.433301	0.0015186
991.046	0.328015	0.0008909
991.528	0.318549	0.0024001
992.01	0.405349	0.0033044
992.493	0.500703	0.002189
992.975	0.408808	0.0009324
993.457	0.332048	0.0021152
993.939	0.457748	0.0038674
994.422	0.54794	0.0028592
994.904	0.492383	0.0011811
995.386	0.368891	0.0021146
995.868	0.496017	0.0038575
996.351	0.575382	0.0037399
996.833	0.581127	0.0015486
997.315	0.427522	0.0020091
997.797	0.507224	0.0043905
998.28	0.616768	0.004166
998.762	0.68216	0.0017691
999.244	0.482534	0.0018692
999.726	0.509228	0.0044393
1000.2	0.686565	0.0050632
1000.69	0.77522	0.0020902
1001.17	0.518643	0.00148
1001.65	0.534827	0.0046843
1002.13	0.764598	0.0054928
1002.62	0.830646	0.0023459
1003.1	0.539579	0.0012317
1003.58	0.60157	0.0049453
1004.06	0.838296	0.0066547
1004.54	0.85198	0.0016082
1005.03	0.563125	0.0012328
1005.51	0.662786	0.0058465
1005.99	0.862186	0.0073347
1006.47	0.871357	0.0020002
1006.96	0.598429	0.0012935
1007.44	0.728203	0.006886
1007.92	0.878643	0.0066877
1008.4	0.880571	0.0022579
1008.88	0.602107	0.0020884
1009.37	0.794519	0.0078639
1009.85	0.916937	0.0055645

Methanol 20.00 Mole % 33.0 Torr MS20AV5
MS20AD5

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1010.33	0.876055	0.0021195
1010.81	0.59636	0.0030477
1011.3	0.849888	0.0073125
1011.78	0.993229	0.005507
1012.26	0.845519	0.001171
1012.74	0.607476	0.0039002
1013.22	0.872482	0.0071277
1013.71	1.0207	0.0030847
1014.19	0.760362	0.0009229
1014.67	0.662191	0.0049957
1015.15	0.909914	0.0063434
1015.64	0.985857	0.0011446
1016.12	0.647452	0.0005626
1016.6	0.770133	0.0062019
1017.08	0.937038	0.0055861
1017.56	0.892492	0.0011217
1018.05	0.583638	0.0025486
1018.53	0.845692	0.0064454
1019.01	0.885381	0.00428
1019.49	0.704434	0.0005247
1019.98	0.573749	0.0042969
1020.46	0.800738	0.00568
1020.94	0.797407	0.0016159
1021.42	0.531583	0.0011262
1021.9	0.65052	0.0057307
1022.39	0.694683	0.0046021
1022.87	0.610779	0.0007152
1023.35	0.431996	0.0029279
1023.83	0.599159	0.0046267
1024.32	0.597778	0.0026786
1024.8	0.483645	0.0014467
1025.28	0.460032	0.0041926
1025.76	0.491781	0.0034733
1026.25	0.469739	0.0013172
1026.73	0.374029	0.0027432
1027.21	0.491638	0.0040851
1027.69	0.45297	0.0015681
1028.17	0.393187	0.0011514
1028.66	0.414324	0.0028781
1029.14	0.45278	0.0014625
1029.62	0.468673	0.0004852
1030.1	0.533941	0.0023114
1030.58	0.676559	0.0036822
1031.07	0.803322	0.0038086
1031.55	1.05255	0.0061026

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1032.03	1.32051	0.0104679
1032.51	1.66217	0.0131729
1033	1.95831	0.0121922
1033.48	1.92084	0.0501594
1033.96	1.51171	0.0317739
1034.44	0.97223	0.0119488
1034.92	0.493729	0.0040033
1035.41	0.383588	0.0038311
1035.89	0.381059	0.0036117
1036.37	0.392067	0.0024223
1036.85	0.343965	0.0018711
1037.34	0.314025	0.0015145
1037.82	0.311304	0.0017692
1038.3	0.355435	0.0024325
1038.78	0.360201	0.000905
1039.26	0.309128	0.0007921
1039.75	0.359549	0.0027033
1040.23	0.424201	0.0016693
1040.71	0.417293	0.0006411
1041.19	0.430899	0.002523
1041.67	0.543511	0.002888
1042.16	0.536411	0.002169
1042.64	0.46679	0.0026454
1043.12	0.642848	0.0037531
1043.6	0.669724	0.0037986
1044.09	0.544398	0.0026192
1044.57	0.729503	0.0047289
1045.05	0.788412	0.0055451
1045.53	0.641992	0.0033246
1046.01	0.821965	0.0051136
1046.5	0.91649	0.0068819
1046.98	0.753943	0.0036892
1047.46	0.905143	0.0058978
1047.94	1.00215	0.0076897
1048.43	0.839463	0.0040318
1048.91	0.974341	0.0057725
1049.39	1.10349	0.007894
1049.87	0.92548	0.0050514
1050.35	1.04353	0.0062753
1050.84	1.19003	0.0086172
1051.32	0.997476	0.0055489
1051.8	1.09211	0.0069696
1052.28	1.25108	0.0074341
1052.77	1.04836	0.0058729
1053.25	1.13129	0.0064164

Methanol 20.00 Mole % 33.0 Torr MS20AV5
MS20AD5

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1053.73	1.29517	0.0058409
1054.21	1.0828	0.0066724
1054.69	1.16552	0.0091172
1055.18	1.27427	0.0057306
1055.66	1.11895	0.0068218
1056.14	1.20629	0.0083773
1056.62	1.22022	0.0056026
1057.1	1.15435	0.0068928
1057.59	1.24624	0.0092107
1058.07	1.13998	0.0059713
1058.55	1.1489	0.0068018
1059.03	1.25037	0.0069615
1059.52	1.10031	0.0048788
1060	1.11839	0.0090008
1060.48	1.16672	0.0059782
1060.96	1.10929	0.007028
1061.44	1.11076	0.0061868
1061.93	1.01432	0.0055361
1062.41	1.01697	0.0057479
1062.89	1.05367	0.0061167
1063.37	0.968169	0.0051788
1063.86	0.946314	0.006112
1064.34	0.90712	0.0045394
1064.82	0.898982	0.0043228
1065.3	0.885764	0.0040333
1065.78	0.81564	0.0053944
1066.27	0.772713	0.0048941
1066.75	0.730976	0.0033526
1067.23	0.766405	0.0038696
1067.71	0.72257	0.004018
1068.19	0.641343	0.0037673
1068.68	0.655534	0.00368
1069.16	0.594001	0.0031748
1069.64	0.55943	0.0031959
1070.12	0.563473	0.0022927
1070.61	0.50778	0.0028738
1071.09	0.501764	0.0028392
1071.57	0.444472	0.0024057
1072.05	0.439345	0.0024866
1072.53	0.409915	0.0021695
1073.02	0.379997	0.002061
1073.5	0.372787	0.0018505
1073.98	0.332752	0.0022386
1074.46	0.326593	0.0013884
1074.95	0.262479	0.0013524

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1075.43	0.293074	0.0015895
1075.91	0.21146	0.0013729
1076.39	0.235051	0.0008483
1076.87	0.198582	0.0007534
1077.36	0.205182	0.0014489
1077.84	0.156202	0.0010361
1078.32	0.168774	0.0006042
1078.8	0.153138	0.0009912
1079.28	0.135561	0.0008271
1079.77	0.118138	0.000574
1080.25	0.131033	0.0005478
1080.73	0.109332	0.0008061
1081.21	0.0909813	0.0006262
1081.7	0.0955242	0.0004612
1082.18	0.0890858	0.000511
1082.66	0.0714921	0.0005115
1083.14	0.0700471	0.0005775
1083.62	0.0685322	0.0005279
1084.11	0.0608369	0.0004057
1084.59	0.0568863	0.000463
1085.07	0.0551198	0.0005858
1085.55	0.0531016	0.0004894
1086.04	0.044404	0.0003018
1086.52	0.0458785	0.0005248
1087	0.0442275	0.000598
1087.48	0.0344948	0.0002743
1087.96	0.0368185	0.0002716
1088.45	0.0434995	0.0005997
1088.93	0.0349232	0.00044
1089.41	0.0287424	0.0002706
1089.89	0.040004	0.0005374
1090.37	0.0371279	0.0006638
1090.86	0.0253436	0.0003047
1091.34	0.0326339	0.0002532
1091.82	0.0420493	0.0005231
1092.3	0.0343254	0.0004427
1092.79	0.0293817	0.0003294
1093.27	0.0450592	0.0004892
1093.75	0.0438682	0.0005105
1094.23	0.0326252	0.0004264
1094.71	0.0311479	0.0003992
1095.2	0.0350325	0.0004929
1095.68	0.0289735	0.0002907
1096.16	0.0257229	0.0004345
1096.64	0.0305435	0.0005294

Methanol 20.00 Mole % 33.0 Torr MS20AV5
MS20AD5

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1097.13	0.0333049	0.0003604
1097.61	0.0336695	0.0005254
1098.09	0.0278834	0.0006249
1098.57	0.025478	0.0005444
1099.05	0.0288141	0.0003236
1099.54	0.0278563	0.0005067
1100.02	0.0250176	0.0006452
1100.5	0.0251337	0.0003057
1100.98	0.0269156	0.0003592
1101.46	0.0284478	0.000627
1101.95	0.0218072	0.0004876
1102.43	0.0228698	0.0002831
1102.91	0.0290641	0.0006057
1103.39	0.0244867	0.0005859
1103.88	0.0212325	0.0003402
1104.36	0.0246906	0.0002932
1104.84	0.0280389	0.0005151
1105.32	0.025351	0.0004186
1105.8	0.0245919	0.0003585
1106.29	0.0296348	0.0004699
1106.77	0.029463	0.0004022
1107.25	0.0230863	0.000373
1107.73	0.0204479	0.0006109
1108.22	0.0249824	0.0004448
1108.7	0.0297846	0.0004644
1109.18	0.0212784	0.000536
1109.66	0.0188157	0.0005052
1110.14	0.0253293	0.0002235
1110.63	0.0256851	0.0003856
1111.11	0.0220403	0.000609
1111.59	0.0239986	0.0004189
1112.07	0.0282773	0.0004189
1112.56	0.0234706	0.0004378
1113.04	0.0200551	0.0005298
1113.52	0.0272883	0.0003724
1114	0.0340521	0.0003289
1114.48	0.0317194	0.0006144
1114.97	0.0257481	0.0004362
1115.45	0.026043	0.0005117
1115.93	0.0226341	0.0005021
1116.41	0.0204843	0.0005673
1116.89	0.0205569	0.0004074
1117.38	0.0172059	0.0002968
1117.86	0.0202879	0.0004658
1118.34	0.0215288	0.0003181

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1118.82	0.0153491	0.0003598
1119.31	0.0169747	0.0004592
1119.79	0.0229286	0.0003041
1120.27	0.0193867	0.0003349
1120.75	0.0159665	0.000493
1121.23	0.0205553	0.0002514
1121.72	0.0227023	0.0004302
1122.2	0.0169034	0.0005068
1122.68	0.0148862	0.0003447
1123.16	0.0224446	0.0002942
1123.65	0.0222413	0.0003484
1124.13	0.0158482	0.0005665
1124.61	0.0185525	0.0004202
1125.09	0.0202672	0.0004173
1125.57	0.0170332	0.0005199
1126.06	0.0133308	0.0004094
1126.54	0.0181418	0.0002935
1127.02	0.0177008	0.00038
1127.5	0.0137911	0.0004896
1127.98	0.0148972	0.0003311
1128.47	0.0155755	0.0003045
1128.95	0.015306	0.0005047
1129.43	0.0190841	0.0003515
1129.91	0.0141996	0.0002996
1130.4	0.0110563	0.0003278
1130.88	0.0151224	0.0004514
1131.36	0.0168479	0.0003481
1131.84	0.0122774	0.0004073
1132.32	0.0099015	0.0003446
1132.81	0.017002	0.0003455
1133.29	0.0156152	0.0003836
1133.77	0.0077111	0.0004685
1134.25	0.0152591	0.000218
1134.74	0.0235708	0.000379
1135.22	0.0187532	0.0005583
1135.7	0.0155137	0.0003879
1136.18	0.0249402	0.000401
1136.66	0.0183895	0.0004227
1137.15	0.0099372	0.0005138
1137.63	0.0142305	0.0003971
1138.11	0.0182676	0.0003131
1138.59	0.0115094	0.0005039
1139.07	0.0085253	0.0003617
1139.56	0.0135855	0.0003488
1140.04	0.0148867	0.0002405

Methanol 20.00 Mole % 33.0 Torr MS20AV5
MS20AD5

WN (cm-1)	AVE (A.U.)	AD (A.U.)	WN (cm-1)	AVE (A.U.)	AD (A.U.)
1140.52	0.0108607	0.0004853	1162.22	0.0190449	0.0004192
1141	0.0178121	0.0003669	1162.7	0.0084046	0.000383
1141.49	0.0258424	0.0003186	1163.18	0.0032125	0.0003424
1141.97	0.0127225	0.0002979	1163.67	0.0163622	0.0002947
1142.45	0.0141834	0.000418	1164.15	0.0165677	0.0003821
1142.93	0.015177	0.0003445	1164.63	0.0075704	0.0002381
1143.41	0.0081751	0.0003084	1165.11	0.0128987	0.0003754
1143.9	0.0133847	0.0002849	1165.59	0.014982	0.0004139
1144.38	0.0207132	0.00042	1166.08	0.004143	0.000384
1144.86	0.0107115	0.0004488	1166.56	0.0070322	0.0003523
1145.34	0.0054636	0.0003288	1167.04	0.0134785	0.0003575
1145.83	0.0174597	0.000332	1167.52	0.0044101	0.0003545
1146.31	0.0141504	0.0004679	1168.01	0.0031552	0.0002181
1146.79	0.0019398	0.0004159	1168.49	0.0146786	0.0003561
1147.27	0.0122307	0.0002607	1168.97	0.0089603	0.0004394
1147.75	0.0218201	0.0003379	1169.45	-0.001213	0.000295
1148.24	0.0074902	0.0005287	1169.93	0.0124041	0.0003699
1148.72	0.0049446	0.0002454	1170.42	0.0167327	0.0003722
1149.2	0.0190814	0.0003885	1170.9	-0.0013666	0.0004753
1149.68	0.013636	0.0004855	1171.38	0.003669	0.0003175
1150.16	0.0011852	0.0004501	1171.86	0.0201076	0.0003718
1150.65	0.0103804	0.0004001	1172.35	0.0058508	0.0004204
1151.13	0.0144651	0.0003224	1172.83	-0.0020305	0.0002904
1151.61	0.0048538	0.0004922	1173.31	0.0161922	0.0003989
1152.09	0.0083547	0.0003703	1173.79	0.0159825	0.000368
1152.58	0.0167766	0.0003331	1174.27	-0.0001587	0.0003855
1153.06	0.0071386	0.0002793	1174.76	0.0109757	0.0004041
1153.54	0.0058421	0.0003041	1175.24	0.0200877	0.0003768
1154.02	0.0163414	0.0003562	1175.72	0.0053297	0.0004302
1154.5	0.0083383	0.0003344	1176.2	0.0052004	0.0003538
1154.99	0.0007356	0.0002893	1176.68	0.0184337	0.0003394
1155.47	0.0131098	0.0003921	1177.17	0.0114098	0.0002331
1155.95	0.0123938	0.0003534	1177.65	0.0028337	0.0003935
1156.43	0.0003591	0.0002965	1178.13	0.0154303	0.000406
1156.92	0.0118537	0.0003373	1178.61	0.015381	0.000353
1157.4	0.0205744	0.000405	1179.1	0.0022311	0.0002287
1157.88	0.0039005	0.0004058	1179.58	0.0136485	0.0003713
1158.36	0.0024878	0.0003279	1180.06	0.0204457	0.000368
1158.84	0.0192632	0.0004081	1180.54	0.0047712	0.0003799
1159.33	0.0117489	0.0005683	1181.02	0.0078136	0.0003047
1159.81	-0.0002843	0.0003461	1181.51	0.0225765	0.0004069
1160.29	0.0147804	0.0003637	1181.99	0.0136483	0.0004888
1160.77	0.0199937	0.0003439	1182.47	0.0042356	0.0002637
1161.26	0.0034558	0.0004664	1182.95	0.0218768	0.0003766
1161.74	0.0049641	0.0003021	1183.44	0.0215118	0.0005298

Methanol 20.00 Mole % 33.0 Torr MS20AV5
MS20AD5

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1183.92	0.0054555	0.0004322
1184.4	0.0140698	0.0003905
1184.88	0.0253941	0.0002842
1185.36	0.0119296	0.0005873
1185.85	0.0066089	0.0002505
1186.33	0.0247935	0.0003266
1186.81	0.0214702	0.0005461
1187.29	0.008637	0.0004765
1187.77	0.0205015	0.0003126
1188.26	0.0238553	0.0004449
1188.74	0.0118638	0.0003387
1189.22	0.0142665	0.0003354
1189.7	0.0251509	0.0002788
1190.19	0.0150998	0.0003841
1190.67	0.0122427	0.0003878
1191.15	0.0244188	0.000366
1191.63	0.0190239	0.0004123
1192.11	0.012479	0.0002493
1192.6	0.0236935	0.0004046
1193.08	0.0243925	0.0004918
1193.56	0.0121382	0.0003169
1194.04	0.0192304	0.0004428
1194.53	0.0310303	0.0004099
1195.01	0.017435	0.0006371
1195.49	0.0177918	0.0003798
1195.97	0.0332407	0.0004236
1196.45	0.0250635	0.0005327
1196.94	0.0154141	0.0004346
1197.42	0.028487	0.0004186
1197.9	0.0358935	0.0003842
1198.38	0.0160911	0.0005812
1198.86	0.0223345	0.000497
1199.35	0.0350323	0.0003838
1199.83	0.0232389	0.0003921
1200.31	0.0184149	0.0004134
1200.79	0.0331897	0.000362
1201.28	0.0325494	0.0002963
1201.76	0.0215081	0.0004343
1202.24	0.0374095	0.0004395
1202.72	0.0386779	0.0004709
1203.2	0.022271	0.0003105
1203.69	0.0260031	0.000495
1204.17	0.0391478	0.0005619
1204.65	0.0265444	0.00047
1205.13	0.0223212	0.0003936

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1205.62	0.0387791	0.0003941
1206.1	0.0335267	0.0005596
1206.58	0.020622	0.0002567
1207.06	0.0336994	0.0003389
1207.54	0.0455023	0.0006064
1208.03	0.0260744	0.0005057
1208.51	0.0294816	0.0004516
1208.99	0.048842	0.0004108
1209.47	0.0320876	0.0005306
1209.95	0.0207661	0.0003903
1210.44	0.0352969	0.0002913
1210.92	0.0420367	0.0005093
1211.4	0.0283854	0.0004255
1211.88	0.0354836	0.0003787
1212.37	0.0487969	0.000428
1212.85	0.0394869	0.000482
1213.33	0.0334843	0.0004915
1213.81	0.0469209	0.0005142
1214.29	0.0469123	0.0006591
1214.78	0.0356251	0.0004338
1215.26	0.0391617	0.0004551
1215.74	0.0369611	0.0005967
1216.22	0.0268228	0.0002561
1216.71	0.032935	0.0004286
1217.19	0.038482	0.0006135
1217.67	0.026038	0.0003967
1218.15	0.0300755	0.0004281
1218.63	0.0403728	0.0005409
1219.12	0.0302851	0.0005253
1219.6	0.0244154	0.0003179
1220.08	0.0393979	0.0004229
1220.56	0.0407154	0.000579
1221.05	0.0228472	0.0003828
1221.53	0.0333958	0.000377
1222.01	0.0415095	0.0004624
1222.49	0.0310092	0.0005801
1222.97	0.0294884	0.0004388
1223.46	0.0408375	0.0003585
1223.94	0.0382437	0.0005796
1224.42	0.0316729	0.0004315
1224.9	0.0462588	0.0004089
1225.38	0.0524058	0.0004146
1225.87	0.0344544	0.0004619
1226.35	0.0357256	0.0005291
1226.83	0.0407551	0.0004851

Methanol 20.00 Mole % 33.0 Torr MS20AV5
MS20AD5

WN (cm-1)	AVE (A.U.)	AD (A.U.)	WN (cm-1)	AVE (A.U.)	AD (A.U.)
1227.31	0.0357948	0.0004491	1249.01	0.0491201	0.0004898
1227.8	0.0347108	0.0004113	1249.49	0.0510973	0.0005024
1228.28	0.0492948	0.0006063	1249.98	0.0429271	0.0005815
1228.76	0.0383076	0.0005169	1250.46	0.0429999	0.0005183
1229.24	0.0255956	0.0005595	1250.94	0.0483047	0.0004793
1229.72	0.0358286	0.0004295	1251.42	0.0408845	0.0004286
1230.21	0.0308801	0.0006413	1251.9	0.0414315	0.0004355
1230.69	0.0216868	0.0003308	1252.39	0.0479826	0.0005272
1231.17	0.0282074	0.0002634	1252.87	0.0443404	0.0006229
1231.65	0.0390637	0.0005676	1253.35	0.0406839	0.0004244
1232.14	0.0327983	0.0005338	1253.83	0.049977	0.0005426
1232.62	0.0383711	0.0003032	1254.32	0.0499571	0.0007173
1233.1	0.0487684	0.0004042	1254.8	0.0408102	0.0003815
1233.58	0.0433128	0.0008209	1255.28	0.0474138	0.0005515
1234.06	0.0307499	0.0005032	1255.76	0.0541172	0.000733
1234.55	0.0327805	0.0004928	1256.24	0.04734	0.0006825
1235.03	0.0402297	0.000593	1256.73	0.0468562	0.0004353
1235.51	0.0243179	0.000504	1257.21	0.0556004	0.0003565
1235.99	0.025008	0.0003482	1257.69	0.0517403	0.0007495
1236.47	0.0399322	0.0004343	1258.17	0.0458984	0.0004871
1236.96	0.0368983	0.0002861	1258.65	0.0498152	0.0005103
1237.44	0.0270216	0.0004039	1259.14	0.0517548	0.0006043
1237.92	0.0401149	0.0003547	1259.62	0.0439778	0.0005897
1238.4	0.0447283	0.0005741	1260.1	0.0492359	0.0003964
1238.89	0.046401	0.0004339	1260.58	0.0560482	0.0004553
1239.37	0.0488787	0.0004624	1261.07	0.0455149	0.0004813
1239.85	0.0536814	0.0006473	1261.55	0.0471226	0.0005658
1240.33	0.0398398	0.0004928	1262.03	0.0528114	0.0006265
1240.81	0.0423858	0.0005461	1262.51	0.0489733	0.000507
1241.3	0.0460269	0.0005591	1262.99	0.0487614	0.0003617
1241.78	0.0338159	0.0005067	1263.48	0.0482147	0.0006687
1242.26	0.0336293	0.0004418	1263.96	0.0508433	0.000682
1242.74	0.0496522	0.0005305	1264.44	0.0461698	0.0004021
1243.23	0.0405982	0.000607	1264.92	0.0474174	0.0004575
1243.71	0.0289735	0.0003764	1265.41	0.0515779	0.0007042
1244.19	0.0434204	0.000443	1265.89	0.0466775	0.00047
1244.67	0.0452404	0.0006468	1266.37	0.0449733	0.0003561
1245.15	0.0291514	0.0004912	1266.85	0.0537179	0.0005984
1245.64	0.0333772	0.0004206	1267.33	0.0507999	0.0007032
1246.12	0.0465405	0.0005363	1267.82	0.0457613	0.0003905
1246.6	0.0361183	0.0005642	1268.3	0.0516152	0.0004627
1247.08	0.0316112	0.0003753	1268.78	0.0542405	0.0007691
1247.56	0.0443368	0.0003919	1269.26	0.0497208	0.0005981
1248.05	0.0454441	0.0004626	1269.74	0.049544	0.000503
1248.53	0.038383	0.0005568	1270.23	0.0543952	0.0005234

Methanol 20.00 Mole % 33.0 Torr MS20AV5
MS20AD5

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1270.71	0.0499748	0.0005333
1271.19	0.0431088	0.0004602
1271.67	0.0511125	0.000479
1272.16	0.0539167	0.0005951
1272.64	0.0451821	0.0005074
1273.12	0.0461787	0.0006257
1273.6	0.0519286	0.0005475
1274.08	0.0453002	0.000419
1274.57	0.0467041	0.000539
1275.05	0.0516328	0.000733
1275.53	0.0462634	0.0003742
1276.01	0.0466823	0.0004855
1276.5	0.0509875	0.0007703
1276.98	0.0480087	0.0004148
1277.46	0.0435173	0.0004344
1277.94	0.048957	0.0006434
1278.42	0.051033	0.0007662
1278.91	0.0451128	0.0004619
1279.39	0.0496081	0.0004912
1279.87	0.052994	0.0008126
1280.35	0.0497139	0.0005694
1280.84	0.0475638	0.0005075
1281.32	0.0505619	0.0006318
1281.8	0.0548468	0.0006764
1282.28	0.0474831	0.0004273
1282.76	0.0507732	0.0004087
1283.25	0.0550983	0.0006434
1283.73	0.0559019	0.0006356
1284.21	0.0541523	0.0006187
1284.69	0.0533351	0.0005668
1285.17	0.0543339	0.0005706
1285.66	0.0516786	0.0004892
1286.14	0.0506507	0.000513
1286.62	0.0531361	0.0004772
1287.1	0.0590584	0.0004735
1287.59	0.0557645	0.0006158
1288.07	0.0492178	0.0006103
1288.55	0.0564293	0.0003919
1289.03	0.0622199	0.0006049
1289.51	0.05656	0.0008757
1290	0.0542624	0.0004791
1290.48	0.0617486	0.0005785
1290.96	0.0635434	0.000729
1291.44	0.0540208	0.0006995
1291.93	0.0613069	0.0004279

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1292.41	0.0711917	0.0006312
1292.89	0.0713277	0.0008791
1293.37	0.0696138	0.0004656
1293.85	0.0823311	0.0006038
1294.34	0.0722681	0.0007125
1294.82	0.0699864	0.0005568
1295.3	0.0681954	0.0005913
1295.78	0.0718468	0.0006003
1296.26	0.0750735	0.0007273
1296.75	0.0692132	0.0005674
1297.23	0.073454	0.0007748
1297.71	0.0712675	0.0008101
1298.19	0.0747098	0.0004737
1298.68	0.0707806	0.0007592
1299.16	0.0741178	0.0008159
1299.64	0.0759979	0.0005653
1300.12	0.0750277	0.0005494
1300.6	0.0814956	0.0008792
1301.09	0.0742726	0.0007204
1301.57	0.0801688	0.0004294
1302.05	0.0837477	0.0008943
1302.53	0.0872368	0.0009318
1303.02	0.0836288	0.0004321
1303.5	0.0817507	0.0005958
1303.98	0.0871227	0.0011583
1304.46	0.0828565	0.0007545
1304.94	0.0838194	0.0005429
1305.43	0.082933	0.0009232
1305.91	0.0943781	0.0010064
1306.39	0.0935277	0.0004484
1306.87	0.0829795	0.000697
1307.35	0.0910495	0.0009516
1307.84	0.0961253	0.0007992
1308.32	0.0978572	0.0005682
1308.8	0.0989257	0.000877
1309.28	0.104538	0.0008516
1309.77	0.0978226	0.0007154
1310.25	0.0867377	0.0010423
1310.73	0.0858388	0.0008417
1311.21	0.0956977	0.0006517
1311.69	0.0946782	0.0007964
1312.18	0.095281	0.0008541
1312.66	0.10289	0.0005958
1313.14	0.0930627	0.0007319
1313.62	0.0927086	0.0010574

Methanol 20.00 Mole % 33.0 Torr MS20AV5
MS20AD5

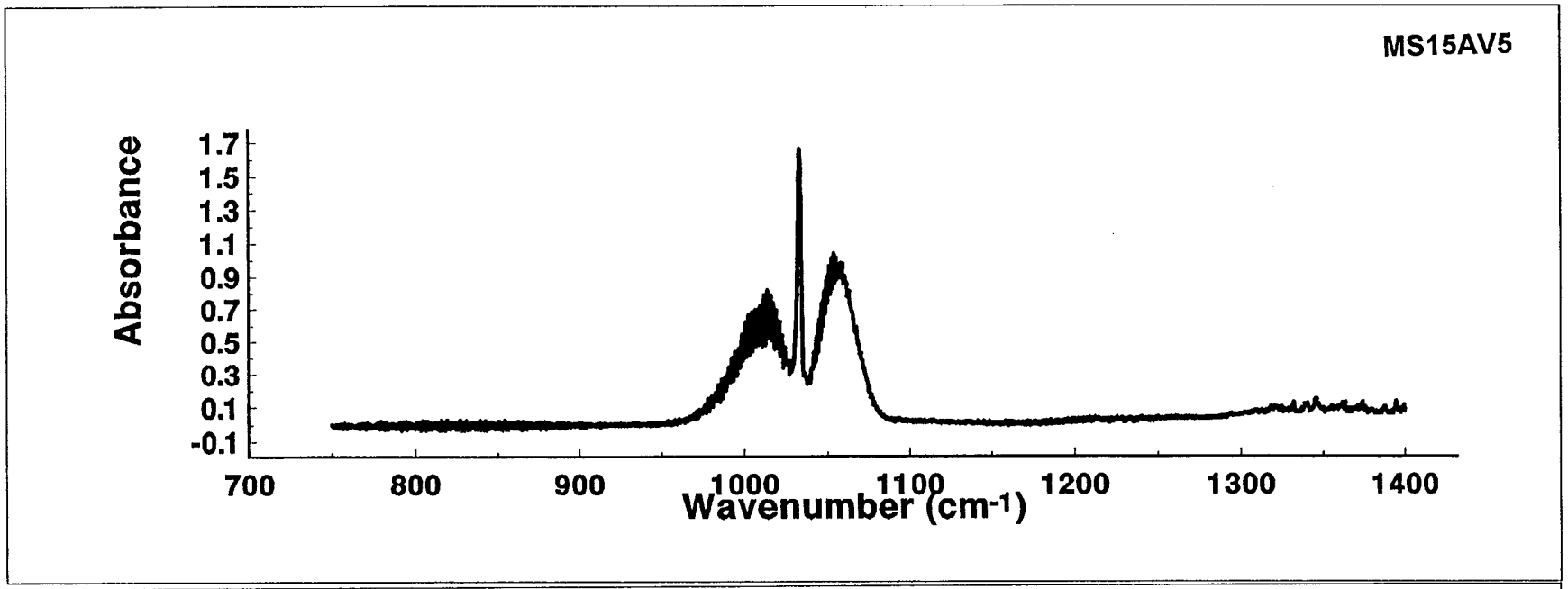
WN (cm-1)	AVE (A.U.)	AD (A.U.)
1314.11	0.0857925	0.0006586
1314.59	0.0977425	0.0006577
1315.07	0.105389	0.00109
1315.55	0.100205	0.0005258
1316.03	0.0922165	0.0005004
1316.52	0.0987868	0.0007815
1317	0.112736	0.0012493
1317.48	0.113966	0.0003711
1317.96	0.128502	0.0006436
1318.44	0.111857	0.0013163
1318.93	0.127696	0.0008996
1319.41	0.107938	0.000596
1319.89	0.113203	0.0010233
1320.37	0.133595	0.0009422
1320.86	0.134037	0.0007744
1321.34	0.124721	0.0009252
1321.82	0.135948	0.0013605
1322.3	0.128296	0.0007067
1322.78	0.109211	0.0007862
1323.27	0.108972	0.0011304
1323.75	0.122484	0.0008576
1324.23	0.128478	0.0006665
1324.71	0.101694	0.0011105
1325.2	0.100862	0.0008657
1325.68	0.117835	0.0007689
1326.16	0.113717	0.0008097
1326.64	0.102119	0.0009455
1327.12	0.104361	0.0005924
1327.61	0.108693	0.0005585
1328.09	0.0971107	0.0010506
1328.57	0.0970306	0.0007723
1329.05	0.114533	0.0006189
1329.54	0.110709	0.0006272
1330.02	0.104151	0.0007158
1330.5	0.12308	0.0004841
1330.98	0.136493	0.001212
1331.46	0.147639	0.0016194
1331.95	0.163025	0.001212
1332.43	0.136106	0.0013126
1332.91	0.0979874	0.001202
1333.39	0.0975387	0.0010975
1333.87	0.0979744	0.0009421
1334.36	0.0942226	0.0009493
1334.84	0.0893238	0.0006045
1335.32	0.0988395	0.0003864

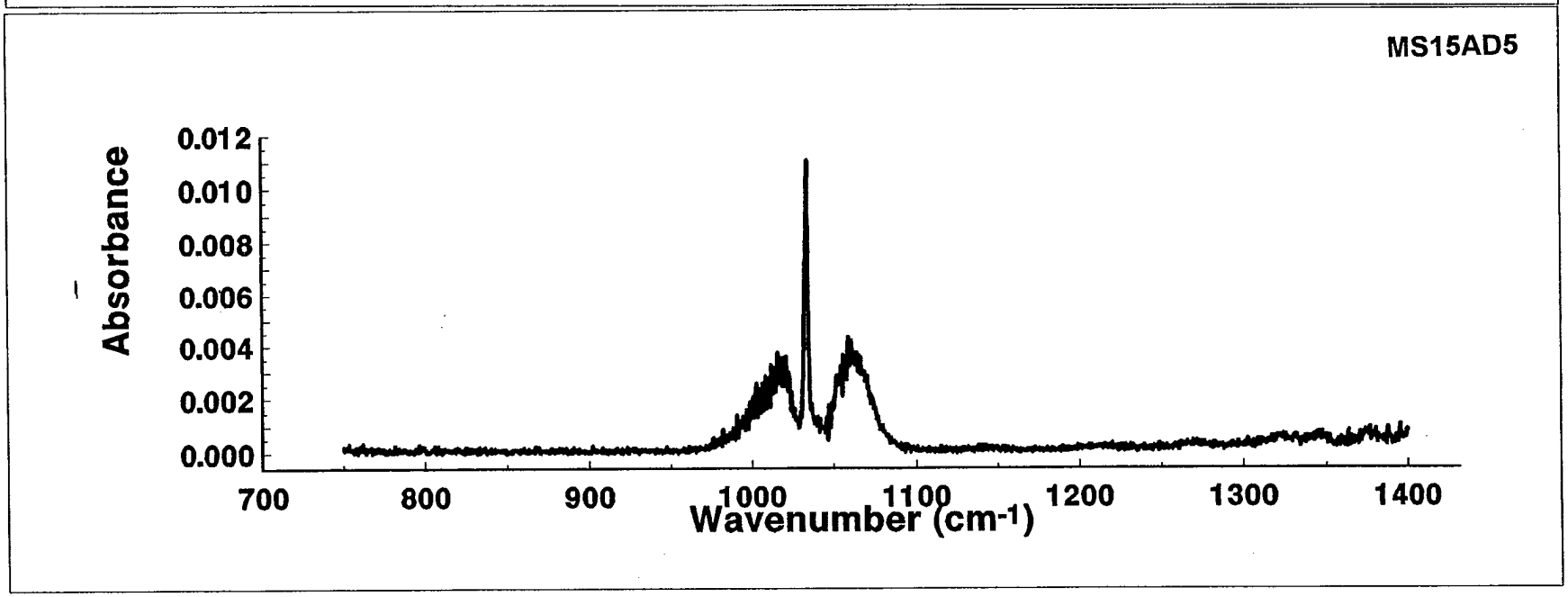
WN (cm-1)	AVE (A.U.)	AD (A.U.)
1335.8	0.0978465	0.0008522
1336.29	0.0933471	0.0008507
1336.77	0.114521	0.0006154
1337.25	0.105443	0.0005531
1337.73	0.102319	0.0007705
1338.21	0.109624	0.0005277
1338.7	0.140215	0.0004077
1339.18	0.134246	0.0011529
1339.66	0.143166	0.0013791
1340.14	0.149292	0.0012938
1340.63	0.142488	0.0015983
1341.11	0.10134	0.0012222
1341.59	0.10838	0.0011072
1342.07	0.113598	0.0010565
1342.55	0.110264	0.0011254
1343.04	0.111054	0.0008979
1343.52	0.118495	0.0003731
1344	0.121598	0.0006543
1344.48	0.140203	0.0010266
1344.96	0.1808	0.0012027
1345.45	0.187478	0.0011641
1345.93	0.156737	0.0008958
1346.41	0.144455	0.0009932
1346.89	0.154793	0.0017633
1347.38	0.154223	0.0013042
1347.86	0.123739	0.0009501
1348.34	0.125657	0.001059
1348.82	0.120359	0.0015147
1349.3	0.113765	0.0010012
1349.79	0.121538	0.0006654
1350.27	0.109556	0.0012286
1350.75	0.096282	0.0010392
1351.23	0.103613	0.000276
1351.72	0.109578	0.0008014
1352.2	0.106237	0.0010268
1352.68	0.105902	0.0006641
1353.16	0.112888	0.0006336
1353.64	0.121197	0.001015
1354.13	0.112056	0.0008662
1354.61	0.116475	0.0007846
1355.09	0.129991	0.0010048
1355.57	0.112068	0.0009847
1356.05	0.111134	0.0008262
1356.54	0.119681	0.0010852
1357.02	0.125751	0.0010232

Methanol 20.00 Mole % 33.0 Torr MS20AV5
MS20AD5

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1357.5	0.121893	0.0007181
1357.98	0.126151	0.0011416
1358.47	0.128286	0.0008603
1358.95	0.112139	0.0006521
1359.43	0.119909	0.0005127
1359.91	0.133878	0.0009844
1360.39	0.133368	0.0009642
1360.88	0.129388	0.0010361
1361.36	0.151937	0.0008781
1361.84	0.120135	0.0005936
1362.32	0.109944	0.0010521
1362.81	0.145608	0.0017417
1363.29	0.151007	0.0015727
1363.77	0.0978068	0.0014721
1364.25	0.110478	0.0011394
1364.73	0.119407	0.0013844
1365.22	0.0972295	0.0010108
1365.7	0.102997	0.0002763
1366.18	0.11475	0.0006875
1366.66	0.0959922	0.0009465
1367.14	0.0970297	0.000623
1367.63	0.114776	0.0005743
1368.11	0.103529	0.0009059
1368.59	0.108924	0.0007858
1369.07	0.11737	0.0007932
1369.56	0.108698	0.0007416
1370.04	0.112326	0.0010345
1370.52	0.13246	0.0008174
1371	0.127477	0.0009693
1371.48	0.107284	0.0007921
1371.97	0.118275	0.0006745
1372.45	0.137974	0.0005495
1372.93	0.113282	0.0009001
1373.41	0.110216	0.0010826
1373.9	0.148615	0.0006141
1374.38	0.11514	0.0008486
1374.86	0.0992208	0.001454
1375.34	0.123141	0.0012861
1375.82	0.111154	0.0007397
1376.31	0.0943926	0.0010631
1376.79	0.0872133	0.0006148
1377.27	0.104778	0.0007642
1377.75	0.101157	0.000713
1378.23	0.0948269	0.0004731
1378.72	0.0992861	0.0005756

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1379.2	0.110334	0.0010949
1379.68	0.105267	0.0009066
1380.16	0.10526	0.0008045
1380.65	0.100544	0.0008181
1381.13	0.0841836	0.000764
1381.61	0.089328	0.0008311
1382.09	0.095247	0.0006703
1382.57	0.0852536	0.0007432
1383.06	0.0839779	0.0006769
1383.54	0.090644	0.0005922
1384.02	0.0876828	0.000835
1384.5	0.0822646	0.0006071
1384.99	0.0979752	0.0006044
1385.47	0.105001	0.0005568
1385.95	0.0877855	0.0006724
1386.43	0.103975	0.0007938
1386.91	0.119421	0.0011429
1387.4	0.114393	0.002498
1387.88	0.122035	0.0020351
1388.36	0.107107	0.0016124
1388.84	0.10228	0.0017679
1389.33	0.0861136	0.0013449
1389.81	0.0896783	0.0007401
1390.29	0.0922863	0.0006646
1390.77	0.0822738	0.0009842
1391.25	0.0851014	0.0007049
1391.74	0.0953734	0.0006164
1392.22	0.0876652	0.0007373
1392.7	0.0849064	0.0001506
1393.18	0.0989453	0.0002633
1393.66	0.101659	0.0011959
1394.15	0.110151	0.0016194
1394.63	0.149298	0.0011397
1395.11	0.109536	0.0017853
1395.59	0.0976694	0.0016136
1396.08	0.10976	0.0015138
1396.56	0.0987025	0.0008922
1397.04	0.0928588	0.0010559
1397.52	0.0853961	0.0006457
1398	0.11149	0.0003275
1398.49	0.10452	0.0016053
1398.97	0.104464	0.0020637
1399.45	0.13047	0.0017637
1399.93	0.0949511	0.0017035


MS15AV5
Absorbance
1.7
1.5
1.3
1.1
0.9
0.7
0.5
0.3
0.1
-0.1
700
800
900
1000
1100
1200
1300
1400
Wavenumber (cm-1)


MS15AD5
Absorbance
0.012
0.010
0.008
0.006
0.004
0.002
0.000
700
800
900
1000
1100
1200
1300
1400
Wavenumber (cm-1)

Methanol 15.00 Mole % 26.8 Torr MS15AV5
MS15AD5

WN (cm-1)	AVE (A.U.)	AD (A.U.)
749.927	-0.003889	0.0002392
750.409	-0.004876	0.0001332
750.891	-0.008998	0.0001617
751.373	-0.010897	0.0001821
751.856	-0.004269	0.000247
752.338	-0.001217	0.0001578
752.82	-0.011487	0.0002267
753.302	-0.014044	0.0003288
753.785	-0.000656	0.0001599
754.267	0.0001678	0.0001169
754.749	-0.016598	0.0001432
755.231	-0.014383	0.0001491
755.714	0.0048221	0.0001523
756.196	-0.001905	0.0000467
756.678	-0.021624	0.000159
757.16	-0.008828	0.0000912
757.643	0.0084138	0.0002202
758.125	-0.007083	0.0001292
758.607	-0.018429	0.0000229
759.089	-0.001039	0.0000933
759.571	0.0036852	0.0001877
760.054	-0.012649	0.0002594
760.536	-0.010776	0.0001322
761.018	0.0004775	0.0002419
761.5	-0.006664	0.0003383
761.983	-0.009417	0.0001563
762.465	-0.003006	0.0001119
762.947	-0.007797	0.0001891
763.429	-0.011842	0.0001944
763.912	-0.002466	0.0000374
764.394	-0.003067	0.0001023
764.876	-0.016454	0.0001446
765.358	-0.008259	0.0001674
765.841	0.0045903	0.0002071
766.323	-0.009928	0.0001369
766.805	-0.020981	0.0002138
767.287	0.0003796	0.0000177
767.77	0.0073806	0.0001683
768.252	-0.019993	0.0000664
768.734	-0.01843	0.0000575
769.216	0.0085496	0.0000542
769.698	-0.000839	0.000181
770.181	-0.024148	0.0000794
770.663	-0.00653	0.0001265
771.145	0.0093308	0.0002057

WN (cm-1)	AVE (A.U.)	AD (A.U.)
771.627	-0.012332	0.0001714
772.11	-0.018486	0.0001053
772.592	0.0021889	0.0000737
773.074	-0.001422	0.0001825
773.556	-0.016341	0.0000937
774.039	-0.00689	0.0000941
774.521	-0.001281	0.0001611
775.003	-0.01456	0.0000265
775.485	-0.009464	0.0001284
775.968	0.0022676	0.0001069
776.45	-0.012173	0.0000357
776.932	-0.015605	0.0000423
777.414	0.0091237	0.0001341
777.897	0.0036643	0.0001674
778.379	-0.022099	0.0001453
778.861	-0.003522	0.0001077
779.343	0.0193847	0.0000513
779.825	-0.008027	0.0001218
780.308	-0.021398	0.0000579
780.79	0.0114006	0.0000443
781.272	0.009257	0.0002777
781.754	-0.026148	0.000127
782.237	-0.015106	0.0000812
782.719	0.0136092	0.0000596
783.201	-0.008564	0.0000673
783.683	-0.025511	0.0001949
784.166	-0.000357	0.000121
784.648	0.0048914	0.0001181
785.13	-0.019712	0.0000756
785.612	-0.011689	0.0000856
786.095	0.0053289	0.000159
786.577	-0.011775	0.0000923
787.059	-0.016574	0.0001166
787.541	0.0028561	0.0001658
788.024	-0.005746	0.0001417
788.506	-0.021921	0.0000789
788.988	-0.001603	0.0000626
789.47	0.0070763	0.0000747
789.952	-0.022209	0.0001255
790.435	-0.015943	0.0000422
790.917	0.0149372	0.0001222
791.399	-0.005904	0.0000868
791.881	-0.030753	0.0001149
792.364	0.0022637	0.0000373
792.846	0.0147934	0.0000207

Methanol 15.00 Mole % 26.8 Torr MS15AV5
MS15AD5

WN (cm-1)	AVE (A.U.)	AD (A.U.)
793.328	-0.023641	0.0000747
793.81	-0.021223	0.0001811
794.293	0.016457	0.000131
794.775	0.0000119	0.0001249
795.257	-0.028058	0.0000525
795.739	-0.002434	0.0001134
796.222	0.0128602	0.0003013
796.704	-0.016883	0.0000725
797.186	-0.016454	0.0001613
797.668	0.0081635	0.0001332
798.151	-0.005073	0.0002634
798.633	-0.019802	0.0001813
799.115	0.0012946	0.0002399
799.597	0.0023557	0.000129
800.08	-0.020611	0.0000826
800.562	-0.006116	0.0001289
801.044	0.0110959	0.0000287
801.526	-0.016495	0.00007
802.008	-0.021082	0.0000783
802.491	0.0135064	0.0000377
802.973	0.0021648	0.0000633
803.455	-0.031343	0.0000747
803.937	-0.004407	0.0001518
804.42	0.0214515	0.0001103
804.902	-0.01812	0.0001424
805.384	-0.026904	0.0002446
805.866	0.0169057	0.000078
806.349	0.0094254	0.000279
806.831	-0.029587	0.000034
807.313	-0.007391	0.0000394
807.795	0.0183403	0.0002511
808.278	-0.013766	0.0001704
808.76	-0.02343	0.0000639
809.242	0.0090007	0.0000485
809.724	0.0009225	0.0001703
810.206	-0.024444	0.000117
810.689	-0.003209	0.0000218
811.171	0.0073497	0.0000602
811.653	-0.020514	0.0001877
812.135	-0.011881	0.0001586
812.618	0.0124074	0.0001477
813.1	-0.011781	0.0001176
813.582	-0.024871	0.0001084
814.064	0.0102988	0.000152
814.547	0.0075198	0.0001246

WN (cm-1)	AVE (A.U.)	AD (A.U.)
815.029	-0.029818	0.0001313
815.511	-0.008898	0.0000759
815.993	0.0233999	0.0001209
816.476	-0.012698	0.0000571
816.958	-0.03004	0.0001223
817.44	0.0143247	0.0001421
817.922	0.0129143	0.0001657
818.405	-0.029794	0.0000463
818.887	-0.010433	0.0001247
819.369	0.0233776	0.0002072
819.851	-0.007843	0.0001042
820.334	-0.02424	0.0001003
820.816	0.0116569	0.000186
821.298	0.008549	0.0001414
821.78	-0.024015	0.0000697
822.262	-0.006424	0.0001294
822.745	0.0113389	0.0000558
823.227	-0.016139	0.0000345
823.709	-0.01644	0.000137
824.191	0.0127638	0.0000204
824.674	-0.005108	0.0002163
825.156	-0.025006	0.0000599
825.638	0.0071162	0.0000593
826.12	0.0104143	0.0000763
826.603	-0.027225	0.0001841
827.085	-0.010629	0.0000293
827.567	0.0238614	0.0001857
828.049	-0.009484	0.0000621
828.532	-0.030602	0.0001042
829.014	0.0127057	0.0000602
829.496	0.0145306	0.000154
829.978	-0.030117	0.0001113
830.461	-0.013487	0.0001605
830.943	0.0223894	0.000107
831.425	-0.008308	0.0000283
831.907	-0.029334	0.0000123
832.39	0.007408	0.000032
832.872	0.0093682	0.0002124
833.354	-0.025436	0.0001252
833.836	-0.01009	0.0000256
834.318	0.0126911	0.0001583
834.801	-0.01418	0.0000785
835.283	-0.019227	0.0001297
835.765	0.0106958	0.0001672
836.247	-0.003309	0.0002342

Methanol 15.00 Mole % 26.8 Torr MS15AV5
MS15AD5

WN (cm-1)	AVE (A.U.)	AD (A.U.)
836.73	-0.024678	0.0000885
837.212	0.0053577	0.0000127
837.694	0.0109691	0.0001153
838.176	-0.024783	0.000065
838.659	-0.011729	0.0001269
839.141	0.0214116	0.0000401
839.623	-0.009253	0.0001037
840.105	-0.029351	0.0001709
840.588	0.0127009	0.000025
841.07	0.0146132	0.0000897
841.552	-0.029363	0.0000484
842.034	-0.013177	0.0000655
842.516	0.022321	0.0001559
842.999	-0.008653	0.0000534
843.481	-0.029896	0.0001004
843.963	0.0079107	0.0001116
844.445	0.0102814	0.0001164
844.928	-0.024436	0.0001161
845.41	-0.009163	0.0000803
845.892	0.0140216	0.0000865
846.374	-0.011461	0.0000983
846.857	-0.018888	0.000147
847.339	0.0093089	0.0000689
847.821	-0.00164	0.0001025
848.303	-0.022311	0.0000543
848.786	0.0039612	0.0001284
849.268	0.0093948	0.0000963
849.75	-0.022389	0.000023
850.232	-0.009865	0.000032
850.715	0.0189946	0.0000281
851.197	-0.009786	0.0000899
851.679	-0.026963	0.0000621
852.161	0.0131718	0.0000813
852.644	0.0113058	0.0000326
853.126	-0.02858	0.0000988
853.608	-0.010517	0.0000411
854.09	0.0218408	0.0001347
854.572	-0.010729	0.0001141
855.055	-0.028165	0.0001411
855.537	0.0099686	0.000127
856.019	0.0086614	0.0001172
856.501	-0.025587	0.0000636
856.984	-0.008874	0.0000488
857.466	0.0134185	0.0000355
857.948	-0.011581	0.0001454

WN (cm-1)	AVE (A.U.)	AD (A.U.)
858.43	-0.01815	0.000083
858.913	0.0097108	0.0000573
859.395	0.0008389	0.0000768
859.877	-0.017861	0.0001942
860.359	0.0050188	0.0000981
860.842	0.0073684	0.0000384
861.324	-0.019876	0.0000997
861.806	-0.00726	0.0000891
862.288	0.0157737	0.0000278
862.771	-0.011439	0.0001521
863.253	-0.022375	0.0000494
863.735	0.0135434	0.0000561
864.217	0.006484	0.0000544
864.699	-0.027558	0.0000793
865.182	-0.005035	0.0000846
865.664	0.0197523	0.0001277
866.146	-0.013221	0.0000978
866.628	-0.023389	0.0000255
867.111	0.012676	0.0002417
867.593	0.0060749	0.0001612
868.075	-0.024692	0.0001472
868.557	-0.00593	0.0001458
869.04	0.0134324	0.0002263
869.522	-0.012308	0.0000512
870.004	-0.015903	0.0001148
870.486	0.0085145	0.0000183
870.969	-0.001846	0.0000753
871.451	-0.016704	0.0000966
871.933	0.0044743	0.0000961
872.415	0.0058532	0.0001067
872.898	-0.014505	0.0000845
873.38	-0.000713	0.0000732
873.862	0.0120556	0.0000913
874.344	-0.012334	0.000095
874.827	-0.014113	0.0000636
875.309	0.014868	0.0000359
875.791	0.0011571	0.0000427
876.273	-0.023436	0.000103
876.756	0.0013625	0.0001776
877.238	0.0152879	0.0001384
877.72	-0.016523	0.0000984
878.202	-0.01816	0.0000497
878.684	0.0142646	0.000139
879.167	0.0020959	0.000132
879.649	-0.023468	0.0000552

Methanol 15.00 Mole % 26.8 Torr MS15AV5
MS15AD5

WN (cm-1)	AVE (A.U.)	AD (A.U.)
880.131	-0.00152	0.0001255
880.613	0.0113522	0.000076
881.096	-0.013401	0.0000702
881.578	-0.013376	0.0001933
882.06	0.0074756	0.0001468
882.542	-0.003279	0.0001714
883.025	-0.014171	0.0001662
883.507	0.0027511	0.0000658
883.989	0.0010015	0.000162
884.471	-0.01369	0.0000925
884.954	-0.000429	0.0000683
885.436	0.0066393	0.0001174
885.918	-0.012628	0.0001971
886.4	-0.008168	0.000064
886.882	0.011803	0.0000231
887.365	-0.004794	0.0000796
887.847	-0.018587	0.0000335
888.329	0.00626	0.0001261
888.811	0.0089823	0.0000533
889.294	-0.017845	0.0000168
889.776	-0.010706	0.0001579
890.258	0.0129042	0.0002179
890.74	-0.004021	0.0000644
891.223	-0.020371	0.0000715
891.705	0.0024272	0.0001316
892.187	0.0078193	0.0001279
892.669	-0.01447	0.0000542
893.152	-0.009959	0.0000277
893.634	0.006775	0.0001598
894.116	-0.003988	0.0000479
894.598	-0.01139	0.0000847
895.081	0.0015665	0.0000796
895.563	-6.69E-06	0.0000763
896.045	-0.008822	0.000083
896.527	0.0009543	0.0000381
897.009	0.0026157	0.0000145
897.492	-0.009101	0.0001013
897.974	-0.000772	0.000043
898.456	0.0083542	0.0000606
898.938	-0.006096	0.0000564
899.421	-0.00714	0.0000165
899.903	0.0106129	0.0000741
900.385	0.0022792	0.0000517
900.867	-0.016182	0.0000227
901.35	-0.002695	0.0000749

WN (cm-1)	AVE (A.U.)	AD (A.U.)
901.832	0.0099649	0.0002566
902.314	-0.00886	0.0000691
902.796	-0.01417	0.0000687
903.279	0.0051013	0.0000615
903.761	0.0023971	0.0001196
904.243	-0.013457	0.000125
904.725	-0.005589	0.0000607
905.208	0.0051326	0.0001047
905.69	-0.004547	0.0000742
906.172	-0.007823	0.0000943
906.654	0.0007104	0.0000935
907.137	-0.000356	0.0000411
907.619	-0.004342	0.0002067
908.101	0.0000442	0.0000445
908.583	-0.001329	0.0001104
909.066	-0.004111	0.000068
909.548	0.002137	0.0000523
910.03	0.0015354	0.000146
910.512	-0.008133	0.0000102
910.994	-0.002093	0.0000528
911.477	0.0065839	0.0000223
911.959	-0.003785	0.0001342
912.441	-0.00945	0.0001072
912.923	0.0045434	0.0001153
913.406	0.0040731	0.000049
913.888	-0.009387	0.0001191
914.37	-0.00642	0.0000254
914.852	0.0059089	0.0000709
915.335	-0.000499	0.00003
915.817	-0.008934	0.0001399
916.299	-0.000586	0.000106
916.781	0.0028758	0.0001721
917.263	-0.003565	0.0000838
917.746	-0.005357	0.0001094
918.228	-0.000383	0.0000819
918.71	0.0012981	0.0000708
919.192	-0.000714	0.000033
919.675	-0.00231	0.0001583
920.157	-0.002183	0.0000202
920.639	0.0020967	0.0000822
921.121	0.0018077	0.0000623
921.604	-0.003386	0.0000884
922.086	-0.003	0.0000676
922.568	0.0039823	0.0001782
923.05	0.0009792	0.0002296

Methanol 15.00 Mole % 26.8 Torr MS15AV5 MS15AD5

WN (cm-1)	AVE (A.U.)	AD (A.U.)
923.533	-0.005963	0.0000336
924.015	-0.000302	0.0000108
924.497	0.0051324	0.0001606
924.979	-0.00112	0.0001281
925.462	-0.00456	0.0001136
925.944	0.0006103	0.0001299
926.426	0.0029334	0.0001858
926.908	-0.002305	0.0000665
927.391	-0.003402	0.0001044
927.873	-1.99E-05	0.000174
928.355	0.0013183	0.0000555
928.837	-0.00063	0.0000927
929.319	-0.003	0.0001296
929.802	-0.000812	0.0001361
930.284	0.0035565	0.0000163
930.766	0.0011671	0.0000888
931.248	-0.004254	0.0001501
931.731	0.001127	0.0000533
932.213	0.0083004	0.0001314
932.695	0.0003247	0.0001081
933.177	-0.004307	0.0001148
933.66	0.0059552	0.0001001
934.142	0.0068774	0.0001447
934.624	-0.003999	0.000072
935.106	-0.002824	0.0000786
935.589	0.0070408	0.0000998
936.071	0.002236	0.0000752
936.553	-0.004766	0.000059
937.035	0.0015072	0.0001118
937.518	0.0045782	0.0001121
938	-0.000738	0.0001115
938.482	0.000507	0.0001089
938.964	0.0034511	0.0000784
939.447	0.0018293	0.0001111
939.929	0.0023209	0.0000983
940.411	0.0041616	0.0000229
940.893	-0.00137	0.0001582
941.375	0.0019168	0.000128
941.858	0.008251	0.0000709
942.34	-0.000348	0.0000296
942.822	-0.005455	0.0000574
943.304	0.007062	0.0000957
943.787	0.0107309	0.0001143
944.269	-0.004824	0.0000667
944.751	-0.001745	0.0000106

WN (cm-1)	AVE (A.U.)	AD (A.U.)
945.233	0.0131274	0.0000654
945.716	0.002727	0.0000341
946.198	-0.006161	0.0000624
946.68	0.007983	0.0000534
947.162	0.0123502	0.000211
947.645	-0.00368	0.0000857
948.127	-0.000966	0.0000698
948.609	0.0115613	0.000086
949.091	0.0027499	0.0001383
949.573	-0.001789	0.0000458
950.056	0.0067331	0.0001133
950.538	0.0068582	0.0000982
951.02	0.0030091	0.0000275
951.502	0.0091939	0.0001316
951.985	0.0071574	0.0000988
952.467	-0.001012	0.0001192
952.949	0.0085581	0.0000823
953.431	0.018255	0.0001211
953.914	0.002431	0.000057
954.396	0.0014647	6.98E-06
954.878	0.0190108	0.0000877
955.36	0.0148293	0.0000901
955.843	0.0010203	0.0000579
956.325	0.0123484	0.0000926
956.807	0.0221392	0.0000996
957.289	0.0030595	0.0000934
957.772	0.0077564	0.000188
958.254	0.026111	0.0001124
958.736	0.0174086	0.00005
959.218	0.0044726	0.0001066
959.7	0.020349	0.0001534
960.183	0.0306578	0.0001293
960.665	0.0137941	0.0000414
961.147	0.014003	0.0002261
961.629	0.0261865	0.0001498
962.112	0.0194621	0.0000609
962.594	0.0212906	0.0000999
963.076	0.0290408	0.000162
963.558	0.0220163	0.0002028
964.041	0.0154089	0.0001624
964.523	0.0342254	0.0001353
965.005	0.0389326	0.0002066
965.487	0.0186104	0.0000394
965.97	0.0238413	0.0001667
966.452	0.0453086	0.0001353

Methanol 15.00 Mole % 26.8 Torr MS15AV5 MS15AD5

WN (cm-1)	AVE (A.U.)	AD (A.U.)	WN (cm-1)	AVE (A.U.)	AD (A.U.)
966.934	0.0392163	0.0001088	988.635	0.283222	0.0009272
967.416	0.029816	0.0001424	989.117	0.201002	0.0007453
967.899	0.0483284	0.000235	989.599	0.250803	0.0005029
968.381	0.0486825	0.0002014	990.082	0.28872	0.0005787
968.863	0.0375864	0.0001494	990.564	0.34379	0.0013951
969.345	0.0560909	0.0002034	991.046	0.261482	0.0007749
969.828	0.0654874	0.0001774	991.528	0.250516	0.0005815
970.31	0.0331209	0.0001258	992.01	0.319028	0.0009857
970.792	0.0385604	0.000216	992.493	0.399939	0.0011779
971.274	0.078662	0.0002768	992.975	0.322693	0.0011924
971.757	0.0743204	0.0001697	993.457	0.259635	0.0009225
972.239	0.0402413	0.0001721	993.939	0.364447	0.0009446
972.721	0.0527497	0.0002217	994.422	0.4352	0.0013523
973.203	0.082922	0.0001384	994.904	0.386244	0.0011853
973.685	0.0842283	0.0003036	995.386	0.290776	0.001129
974.168	0.068537	0.0002737	995.868	0.395791	0.0008605
974.65	0.0664535	0.0001841	996.351	0.452574	0.0013483
975.132	0.0740792	0.0002145	996.833	0.458317	0.0015916
975.614	0.0954126	0.0002669	997.315	0.33896	0.0012772
976.097	0.113982	0.0005457	997.797	0.40258	0.0009018
976.579	0.0759492	0.000235	998.28	0.484008	0.0013023
977.061	0.0682028	0.0002453	998.762	0.542828	0.0018584
977.543	0.1177	0.0003451	999.244	0.381513	0.0014705
978.026	0.150504	0.0004947	999.726	0.401318	0.0012831
978.508	0.0917141	0.0003389	1000.2	0.541128	0.0013968
978.99	0.0799496	0.0003069	1000.69	0.620293	0.0020598
979.472	0.140621	0.0003313	1001.17	0.406536	0.0015938
979.955	0.164244	0.0004022	1001.65	0.422882	0.0013083
980.437	0.13377	0.0005711	1002.13	0.607459	0.0015673
980.919	0.106121	0.0003213	1002.62	0.664842	0.0025655
981.401	0.144152	0.0002793	1003.1	0.4209	0.0015504
981.884	0.161978	0.0004877	1003.58	0.480564	0.0013317
982.366	0.184657	0.0008511	1004.06	0.665867	0.0016468
982.848	0.143155	0.0004399	1004.54	0.679074	0.0023732
983.33	0.138237	0.0004011	1005.03	0.440755	0.001747
983.812	0.174083	0.00046	1005.51	0.53357	0.0014862
984.295	0.231773	0.0006613	1005.99	0.681779	0.0019865
984.777	0.183218	0.0005496	1006.47	0.693337	0.0025872
985.259	0.134396	0.0004479	1006.96	0.472642	0.0019587
985.741	0.201065	0.0005737	1007.44	0.584774	0.0015837
986.224	0.264008	0.0007441	1007.92	0.691978	0.0022687
986.706	0.231253	0.0007174	1008.4	0.704688	0.0028419
987.188	0.154149	0.0005781	1008.88	0.477974	0.0020025
987.67	0.234295	0.0005211	1009.37	0.630567	0.0016572
988.153	0.277224	0.0005726	1009.85	0.723842	0.0027602

Methanol 15.00 Mole % 26.8 Torr MS15AV5 MS15AD5

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1010.33	0.700848	0.0028116
1010.81	0.471633	0.0020347
1011.3	0.665815	0.0017238
1011.78	0.7877	0.00327
1012.26	0.671146	0.0031266
1012.74	0.477631	0.002233
1013.22	0.684884	0.002207
1013.71	0.814663	0.0031736
1014.19	0.597766	0.0026429
1014.67	0.522565	0.0022766
1015.15	0.716297	0.0027786
1015.64	0.785058	0.0037416
1016.12	0.50334	0.0025679
1016.6	0.609568	0.0026431
1017.08	0.73902	0.0033271
1017.56	0.703211	0.0035307
1018.05	0.453129	0.0024985
1018.53	0.662619	0.0024666
1019.01	0.694181	0.0035464
1019.49	0.548441	0.002844
1019.98	0.453277	0.0024782
1020.46	0.623939	0.0025105
1020.94	0.622682	0.003576
1021.42	0.412257	0.0024764
1021.9	0.512425	0.0022819
1022.39	0.536501	0.002963
1022.87	0.473151	0.0027612
1023.35	0.338531	0.001987
1023.83	0.465203	0.0015505
1024.32	0.462389	0.0022441
1024.8	0.375184	0.0018218
1025.28	0.361469	0.0013602
1025.76	0.378372	0.0014525
1026.25	0.365498	0.0016328
1026.73	0.296529	0.0012402
1027.21	0.38357	0.0012385
1027.69	0.352069	0.0012226
1028.17	0.313094	0.001065
1028.66	0.332207	0.0009569
1029.14	0.35602	0.0011818
1029.62	0.376958	0.0015254
1030.1	0.436461	0.0013084
1030.58	0.546179	0.0017567
1031.07	0.650519	0.0026301
1031.55	0.862179	0.0029005

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1032.03	1.08556	0.0046805
1032.51	1.39034	0.0070751
1033	1.65948	0.0075885
1033.48	1.56274	0.0085249
1033.96	1.21334	0.0110383
1034.44	0.76185	0.00626
1034.92	0.370863	0.0027245
1035.41	0.288465	0.0018629
1035.89	0.288392	0.0016062
1036.37	0.302705	0.0018062
1036.85	0.266306	0.0015208
1037.34	0.240906	0.0013346
1037.82	0.244563	0.0011952
1038.3	0.282453	0.0011132
1038.78	0.280953	0.0013132
1039.26	0.245025	0.0011065
1039.75	0.292004	0.0010097
1040.23	0.336934	0.0013315
1040.71	0.330614	0.0012536
1041.19	0.349883	0.0007781
1041.67	0.43437	0.0012607
1042.16	0.424719	0.0010975
1042.64	0.374919	0.0009022
1043.12	0.517978	0.0009774
1043.6	0.535307	0.0009158
1044.09	0.432661	0.0009066
1044.57	0.588126	0.0007605
1045.05	0.634722	0.0009387
1045.53	0.509004	0.001309
1046.01	0.661298	0.0008275
1046.5	0.739609	0.0005038
1046.98	0.599547	0.0017543
1047.46	0.726355	0.0015475
1047.94	0.810229	0.0009355
1048.43	0.668228	0.0018248
1048.91	0.781131	0.0016972
1049.39	0.893102	0.0015904
1049.87	0.735608	0.0016848
1050.35	0.833434	0.0020985
1050.84	0.963475	0.0020628
1051.32	0.793206	0.0026642
1051.8	0.869288	0.0028696
1052.28	1.01014	0.0025745
1052.77	0.832404	0.0025161
1053.25	0.899514	0.0027758

Methanol 15.00 Mole % 26.8 Torr MS15AV5
MS15AD5

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1053.73	1.03578	0.0025353
1054.21	0.856857	0.0032314
1054.69	0.925912	0.0032258
1055.18	1.01306	0.0021357
1055.66	0.882468	0.0036575
1056.14	0.955739	0.0034891
1056.62	0.957703	0.0031686
1057.1	0.90382	0.0034674
1057.59	0.98125	0.0027241
1058.07	0.889463	0.003125
1058.55	0.894554	0.0037812
1059.03	0.978683	0.0043368
1059.52	0.856036	0.0036449
1060	0.865618	0.0032333
1060.48	0.901274	0.0042054
1060.96	0.859035	0.0038808
1061.44	0.857074	0.0036168
1061.93	0.781241	0.0037622
1062.41	0.784845	0.0036127
1062.89	0.810935	0.0032726
1063.37	0.74417	0.003457
1063.86	0.728529	0.0037446
1064.34	0.69708	0.0032681
1064.82	0.685993	0.0030151
1065.3	0.679424	0.0036432
1065.78	0.627738	0.0033809
1066.27	0.589107	0.003553
1066.75	0.557121	0.0029231
1067.23	0.58774	0.0029344
1067.71	0.553157	0.0029239
1068.19	0.487935	0.003025
1068.68	0.501257	0.0028865
1069.16	0.455371	0.0026801
1069.64	0.426759	0.0026985
1070.12	0.42815	0.0028562
1070.61	0.389626	0.0023723
1071.09	0.383095	0.0024601
1071.57	0.33666	0.0021261
1072.05	0.335398	0.0021406
1072.53	0.312855	0.001837
1073.02	0.288352	0.0020403
1073.5	0.283327	0.0019831
1073.98	0.254667	0.0018419
1074.46	0.246571	0.0016381
1074.95	0.198957	0.0016521

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1075.43	0.223982	0.0015902
1075.91	0.159454	0.0012685
1076.39	0.177357	0.0012975
1076.87	0.152094	0.0013489
1077.36	0.156946	0.001125
1077.84	0.116108	0.0010428
1078.32	0.127947	0.0008652
1078.8	0.117735	0.0009727
1079.28	0.10134	0.0010303
1079.77	0.0878308	0.0008412
1080.25	0.100768	0.000801
1080.73	0.0831132	0.0007844
1081.21	0.0666569	0.0007221
1081.7	0.0725385	0.000656
1082.18	0.0685802	0.000613
1082.66	0.0529488	0.0006508
1083.14	0.051878	0.0005709
1083.62	0.0524689	0.0004802
1084.11	0.0459309	0.000381
1084.59	0.0419584	0.000552
1085.07	0.0417798	0.000428
1085.55	0.0400864	0.0003842
1086.04	0.0327521	0.0004188
1086.52	0.0349619	0.0004448
1087	0.0336839	0.0003906
1087.48	0.0248845	0.0003772
1087.96	0.0279614	0.0002938
1088.45	0.0340929	0.0002846
1088.93	0.0254492	0.000315
1089.41	0.0210738	0.0002651
1089.89	0.0314958	0.0002212
1090.37	0.0284707	0.0002545
1090.86	0.0172784	0.0003393
1091.34	0.0248317	0.0001242
1091.82	0.0333781	0.0002619
1092.3	0.0252103	0.0002632
1092.79	0.0210678	0.0003171
1093.27	0.0351692	0.0000452
1093.75	0.0335456	0.0002624
1094.23	0.0229264	0.0003199
1094.71	0.0228795	0.0001989
1095.2	0.0268857	0.0001684
1095.68	0.021108	0.0002446
1096.16	0.0186333	0.000153
1096.64	0.0233083	0.0000512

Methanol 15.00 Mole % 26.8 Torr MS15AV5
MS15AD5

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1097.13	0.0254179	0.0002053
1097.61	0.0248173	0.0002212
1098.09	0.0206183	0.0001379
1098.57	0.0188486	0.0001878
1099.05	0.0213672	0.0001521
1099.54	0.0211253	0.0000811
1100.02	0.0184366	0.0000817
1100.5	0.0180826	0.0002125
1100.98	0.0206173	0.0001249
1101.46	0.0218213	0.0000733
1101.95	0.0155115	0.000084
1102.43	0.0170551	0.0001214
1102.91	0.0227408	0.0000719
1103.39	0.0182608	0.0000867
1103.88	0.0150016	0.0001691
1104.36	0.018625	0.0000876
1104.84	0.0219523	0.0001269
1105.32	0.0187799	0.000108
1105.8	0.0176309	0.0001274
1106.29	0.0228611	0.0000435
1106.77	0.0227509	0.0001278
1107.25	0.0169714	0.0000908
1107.73	0.0151425	0.000185
1108.22	0.0192252	0.0000471
1108.7	0.0229599	0.0001073
1109.18	0.015657	0.0001171
1109.66	0.0135055	0.0001246
1110.14	0.0195068	0.0000591
1110.63	0.0198561	0.0000605
1111.11	0.0165156	0.0000254
1111.59	0.0180545	0.0001468
1112.07	0.0221291	0.0000963
1112.56	0.0182063	0.0001077
1113.04	0.014762	0.0000467
1113.52	0.0205889	0.000123
1114	0.026554	0.000131
1114.48	0.0243123	0.0000478
1114.97	0.0189518	0.0002309
1115.45	0.0194766	0.000051
1115.93	0.017073	0.0001167
1116.41	0.0150913	0.0001661
1116.89	0.0151026	0.0000515
1117.38	0.012504	0.0000481
1117.86	0.015492	0.0002002
1118.34	0.0165129	0.0001757

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1118.82	0.0108815	0.0000647
1119.31	0.0122286	0.0000925
1119.79	0.0179838	0.0001121
1120.27	0.014504	0.0001734
1120.75	0.011139	0.0000944
1121.23	0.0155951	0.0001373
1121.72	0.0180516	0.0000792
1122.2	0.012239	0.0000356
1122.68	0.0101401	0.0001408
1123.16	0.0176299	0.0001213
1123.65	0.0175145	0.0001556
1124.13	0.0105249	0.0001395
1124.61	0.013484	0.0000173
1125.09	0.0160447	0.0001112
1125.57	0.0123739	0.0001242
1126.06	0.0089919	0.00015
1126.54	0.0138105	0.0001171
1127.02	0.01341	0.0000256
1127.5	0.009666	0.0001388
1127.98	0.0107927	0.0001811
1128.47	0.011539	0.000136
1128.95	0.0110978	0.0000943
1129.43	0.0144659	0.0001887
1129.91	0.0105822	0.0000873
1130.4	0.0073367	0.0001393
1130.88	0.0113194	0.0001011
1131.36	0.0132968	0.0002034
1131.84	0.0084022	0.0001195
1132.32	0.0062844	0.0001241
1132.81	0.0135037	0.0001559
1133.29	0.0121077	0.0001403
1133.77	0.0038304	0.0000851
1134.25	0.0113616	0.0001593
1134.74	0.0192224	0.0001581
1135.22	0.0131923	0.0000501
1135.7	0.0102768	0.0001611
1136.18	0.0199491	0.0001152
1136.66	0.0142545	0.0001982
1137.15	0.0055954	0.0001394
1137.63	0.0103822	0.0002483
1138.11	0.0147531	0.0000915
1138.59	0.0078662	0.0001035
1139.07	0.0051598	0.0002741
1139.56	0.0106455	0.0001141
1140.04	0.0111954	0.0001135

Methanol 15.00 Mole % 26.8 Torr MS15AV5 MS15AD5

WN (cm-1)	AVE (A.U.)	AD (A.U.)	WN (cm-1)	AVE (A.U.)	AD (A.U.)
1140.52	0.007213	0.0000909	1162.22	0.0165614	0.0000502
1141	0.0137005	0.0002528	1162.7	0.0059301	0.0000869
1141.49	0.019531	0.0001053	1163.18	0.0002756	0.0001309
1141.97	0.0081245	0.0002493	1163.67	0.013412	0.0000264
1142.45	0.0105605	0.0002611	1164.15	0.012866	0.0001153
1142.93	0.0114916	0.0001823	1164.63	0.0041302	0.0001186
1143.41	0.0046112	0.0000948	1165.11	0.0097966	0.0001202
1143.9	0.0095542	0.0002134	1165.59	0.0124856	0.0000716
1144.38	0.0165286	0.0001514	1166.08	0.0015641	0.0000799
1144.86	0.0068024	0.0001476	1166.56	0.0046052	0.0000889
1145.34	0.0021662	0.0002101	1167.04	0.0116223	0.0001224
1145.83	0.0144144	0.0002256	1167.52	0.0021821	0.0000592
1146.31	0.0110472	0.0000981	1168.01	0.0008324	0.0001159
1146.79	-0.001024	0.0000817	1168.49	0.0126736	0.0001405
1147.27	0.009051	0.0001954	1168.97	0.0069205	0.0001233
1147.75	0.0176555	0.0002046	1169.45	-0.003535	0.0000669
1148.24	0.0039597	0.0002115	1169.93	0.0101942	0.0000775
1148.72	0.0018848	0.0001829	1170.42	0.0141317	0.0001387
1149.2	0.0155555	0.0002219	1170.9	-0.003259	0.0000341
1149.68	0.0101502	0.0001193	1171.38	0.0014922	0.0000927
1150.16	-0.00148	0.0001314	1171.86	0.0176489	0.0000974
1150.65	0.0079316	0.0001612	1172.35	0.0036247	0.000175
1151.13	0.0118691	0.0000549	1172.83	-0.003715	0.0000666
1151.61	0.0018692	0.0001319	1173.31	0.0140394	0.0001163
1152.09	0.0054516	0.0001717	1173.79	0.0134543	0.0001336
1152.58	0.0134126	0.0002224	1174.27	-0.002253	0.0001032
1153.06	0.0043451	0.0001275	1174.76	0.008152	0.0001519
1153.54	0.0030518	0.0002315	1175.24	0.0175265	0.0000577
1154.02	0.0127825	0.000215	1175.72	0.0029352	0.0001205
1154.5	0.0052188	0.0000658	1176.2	0.0023835	0.000098
1154.99	-0.000988	0.0000796	1176.68	0.0157699	0.0000819
1155.47	0.0105036	0.0001954	1177.17	0.0084027	0.0001508
1155.95	0.0093465	0.0000866	1177.65	0.0002535	0.0000452
1156.43	-0.001894	0.0001122	1178.13	0.0128351	0.0000983
1156.92	0.0089563	0.0001338	1178.61	0.012363	0.0001219
1157.4	0.0169118	0.0001028	1179.1	-0.000443	0.000077
1157.88	0.001102	0.0000389	1179.58	0.0108819	0.0001253
1158.36	0.0001607	0.0001217	1180.06	0.0173303	0.0001675
1158.84	0.0165729	0.0001897	1180.54	0.0019975	0.0000847
1159.33	0.0088157	0.0001117	1181.02	0.005003	0.0000977
1159.81	-0.00295	0.0001098	1181.51	0.0196053	0.0000606
1160.29	0.0116853	0.0000983	1181.99	0.0096108	0.0000654
1160.77	0.0167468	0.0000538	1182.47	0.0009398	0.0001364
1161.26	0.0005116	0.000144	1182.95	0.018686	0.000166
1161.74	0.0026762	0.0000637	1183.44	0.0182317	0.0000876

Methanol 15.00 Mole % 26.8 Torr MS15AV5
MS15AD5

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1183.92	0.0017957	0.0001188
1184.4	0.0109025	0.0001397
1184.88	0.0222295	0.0000622
1185.36	0.0078495	0.0000893
1185.85	0.0036646	0.0001137
1186.33	0.0214458	0.0001358
1186.81	0.0172659	0.0000753
1187.29	0.0045141	0.0001566
1187.77	0.0167462	0.0001701
1188.26	0.0203865	0.000066
1188.74	0.0074639	0.0001598
1189.22	0.0104464	0.0002248
1189.7	0.0212485	0.0001085
1190.19	0.0108854	0.0000815
1190.67	0.0082219	0.0001898
1191.15	0.0208815	0.0001485
1191.63	0.0147869	0.0000916
1192.11	0.0077776	0.0001893
1192.6	0.0199684	0.0001309
1193.08	0.0203782	0.000081
1193.56	0.0070816	0.0001882
1194.04	0.0153533	0.0001377
1194.53	0.0267001	0.0001033
1195.01	0.0122596	0.0001075
1195.49	0.0121089	0.0001726
1195.97	0.0282359	0.000143
1196.45	0.0199952	0.0001241
1196.94	0.0092976	0.0001729
1197.42	0.0230573	0.0002006
1197.9	0.0301282	0.0001223
1198.38	0.0106999	0.0001
1198.86	0.0163956	0.0002731
1199.35	0.0296728	0.000154
1199.83	0.0180851	0.000175
1200.31	0.0125106	0.0002381
1200.79	0.0275123	0.0002249
1201.28	0.0265042	0.0001309
1201.76	0.015129	0.0001912
1202.24	0.0294161	0.0002306
1202.72	0.0311221	0.0002213
1203.2	0.0155301	0.000177
1203.69	0.0196559	0.0002343
1204.17	0.0320644	0.0002173
1204.65	0.019499	0.0001528
1205.13	0.0155761	0.000158

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1205.62	0.0323372	0.0002801
1206.1	0.0263729	0.0001449
1206.58	0.0136402	0.0002325
1207.06	0.0271403	0.0002929
1207.54	0.0373952	0.0001757
1208.03	0.0182551	0.0001951
1208.51	0.0219591	0.0002017
1208.99	0.0405344	0.0001833
1209.47	0.024197	0.0002315
1209.95	0.0139919	0.0002414
1210.44	0.0293332	0.0002012
1210.92	0.0342723	0.0001977
1211.4	0.0202022	0.0001973
1211.88	0.0281565	0.0002463
1212.37	0.0403175	0.0002616
1212.85	0.0297438	0.0002187
1213.33	0.0250457	0.000269
1213.81	0.0383071	0.0001375
1214.29	0.0360707	0.0002259
1214.78	0.0256863	0.0002815
1215.26	0.0315094	0.0003171
1215.74	0.0292625	0.000183
1216.22	0.0188807	0.0002218
1216.71	0.0262019	0.0002536
1217.19	0.0313789	0.0001668
1217.67	0.0187019	0.0002499
1218.15	0.0227492	0.0002865
1218.63	0.0338532	0.0001775
1219.12	0.0232259	0.0001822
1219.6	0.0171672	0.0003479
1220.08	0.032784	0.0001447
1220.56	0.032887	0.0001467
1221.05	0.0157415	0.0002342
1221.53	0.0264014	0.0002487
1222.01	0.0347344	0.0001851
1222.49	0.0228521	0.0002084
1222.97	0.0217632	0.0002623
1223.46	0.0338301	0.0000799
1223.94	0.0303396	0.0002079
1224.42	0.0230858	0.0002053
1224.9	0.0369294	0.0002747
1225.38	0.04185	0.0001182
1225.87	0.024995	0.0001646
1226.35	0.0277199	0.0002906
1226.83	0.0332199	0.0001218

Methanol 15.00 Mole % 26.8 Torr MS15AV5 MS15AD5

WN (cm-1)	AVE (A.U.)	AD (A.U.)	WN (cm-1)	AVE (A.U.)	AD (A.U.)
1227.31	0.0268112	0.0000943	1249.01	0.0387821	0.0001605
1227.8	0.0259482	0.0002793	1249.49	0.0408364	0.0001119
1228.28	0.039646	0.0002303	1249.98	0.0325073	0.0001796
1228.76	0.0292417	0.0002208	1250.46	0.0330159	0.0002707
1229.24	0.0177852	0.0001112	1250.94	0.0383332	0.0002585
1229.72	0.0291694	0.0002302	1251.42	0.0314523	0.0001321
1230.21	0.0248316	0.0001075	1251.9	0.031785	0.0001496
1230.69	0.0152702	0.0001924	1252.39	0.0385562	0.0002352
1231.17	0.022717	0.0002802	1252.87	0.034368	0.0002822
1231.65	0.0325936	0.0001268	1253.35	0.0308217	0.0001814
1232.14	0.0243157	0.000148	1253.83	0.0400227	0.0002072
1232.62	0.0286351	0.0002763	1254.32	0.039171	0.0001419
1233.1	0.0397609	0.0002394	1254.8	0.0306147	0.0001627
1233.58	0.0339398	0.0001932	1255.28	0.0371081	0.0001864
1234.06	0.0217875	0.0001895	1255.76	0.0436818	0.0002049
1234.55	0.0263362	0.0000668	1256.24	0.0361814	0.0001835
1235.03	0.0325907	0.0000644	1256.73	0.0354685	0.0001305
1235.51	0.0173124	0.000181	1257.21	0.0443796	0.0002229
1235.99	0.0193392	0.0001828	1257.69	0.0402803	0.0002675
1236.47	0.0331928	0.0001032	1258.17	0.0342132	0.000298
1236.96	0.028327	0.0001839	1258.65	0.0395024	0.0001804
1237.44	0.020297	0.0002079	1259.14	0.0414261	0.00018
1237.92	0.0326676	0.0001824	1259.62	0.0333897	0.0002345
1238.4	0.0358791	0.0002037	1260.1	0.0380142	0.000321
1238.89	0.0351248	0.0001267	1260.58	0.0453205	0.0001161
1239.37	0.0385519	0.0002738	1261.07	0.035319	0.0003248
1239.85	0.0423419	0.0001075	1261.55	0.0356011	0.0003656
1240.33	0.0296555	0.0001909	1262.03	0.0409476	0.0002644
1240.81	0.0330683	0.000163	1262.51	0.0381948	0.0002768
1241.3	0.0368997	0.0001187	1262.99	0.0371788	0.0003599
1241.78	0.0250262	0.0001138	1263.48	0.0374057	0.0002632
1242.26	0.025498	0.0001961	1263.96	0.0393894	0.0003076
1242.74	0.0401406	0.0002032	1264.44	0.0354447	0.0003368
1243.23	0.0314153	0.0002288	1264.92	0.0369228	0.0002823
1243.71	0.0211999	0.0002073	1265.41	0.0403823	0.0004207
1244.19	0.0351789	0.0000812	1265.89	0.0356144	0.0003319
1244.67	0.0365585	0.0000939	1266.37	0.0344452	0.0003324
1245.15	0.0212052	0.0002469	1266.85	0.0427961	0.000335
1245.64	0.0260459	0.0001946	1267.33	0.038876	0.0002995
1246.12	0.0381919	0.0001814	1267.82	0.0343936	0.0002921
1246.6	0.0277372	0.0002439	1268.3	0.0409107	0.0003568
1247.08	0.0235469	0.0002746	1268.78	0.0426999	0.0003255
1247.56	0.0359277	0.0002209	1269.26	0.0371719	0.0004288
1248.05	0.0363552	0.000071	1269.74	0.0380598	0.0002768
1248.53	0.0288106	0.0003279	1270.23	0.0430713	0.0003241

Methanol 15.00 Mole % 26.8 Torr MS15AV5
MS15AD5

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1270.71	0.0386009	0.0003642
1271.19	0.0324631	0.0004406
1271.67	0.0402783	0.0003249
1272.16	0.0418973	0.000371
1272.64	0.0342283	0.0002848
1273.12	0.0354658	0.0004042
1273.6	0.0403718	0.0002615
1274.08	0.0347712	0.0003795
1274.57	0.0355738	0.0002932
1275.05	0.0394442	0.0002475
1275.53	0.0356534	0.0002397
1276.01	0.0360108	0.0003873
1276.5	0.0393135	0.0002858
1276.98	0.0364061	0.000311
1277.46	0.0338923	0.0002696
1277.94	0.0380536	0.0002858
1278.42	0.0390892	0.0002666
1278.91	0.0339001	0.0003287
1279.39	0.0387158	0.0003233
1279.87	0.0414594	0.000185
1280.35	0.0377011	0.0002477
1280.84	0.0366023	0.0003081
1281.32	0.0395373	0.0001687
1281.8	0.0419527	0.000244
1282.28	0.0360028	0.0003741
1282.76	0.0388753	0.0003663
1283.25	0.043016	0.0001987
1283.73	0.0426479	0.0002796
1284.21	0.0413316	0.0002727
1284.69	0.0409077	0.0002158
1285.17	0.0417764	0.0002917
1285.66	0.0399503	0.0002817
1286.14	0.0385563	0.0002856
1286.62	0.0407839	0.0002615
1287.1	0.0462611	0.0002973
1287.59	0.0437056	0.0002765
1288.07	0.0374997	0.000125
1288.55	0.0442966	0.0002504
1289.03	0.0490475	0.0002481
1289.51	0.0436002	0.0001798
1290	0.0415242	0.0001991
1290.48	0.0489289	0.0002597
1290.96	0.0496167	0.0002781
1291.44	0.0407262	0.0002711
1291.93	0.0477076	0.0003183

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1292.41	0.0562892	0.0002063
1292.89	0.0550587	0.0003257
1293.37	0.0535527	0.0003668
1293.85	0.0637108	0.0002447
1294.34	0.0557149	0.0002614
1294.82	0.0539171	0.0002506
1295.3	0.0527771	0.0003134
1295.78	0.0555881	0.0002596
1296.26	0.0583139	0.0001952
1296.75	0.0539102	0.0003966
1297.23	0.0567549	0.0003045
1297.71	0.0547624	0.0002655
1298.19	0.058627	0.000276
1298.68	0.0558029	0.0002385
1299.16	0.0568688	0.0002977
1299.64	0.05889	0.0002823
1300.12	0.0595778	0.0003324
1300.6	0.0628594	0.0002326
1301.09	0.0566866	0.0003769
1301.57	0.0632276	0.0003103
1302.05	0.0661119	0.0002433
1302.53	0.0665226	0.0004972
1303.02	0.0646317	0.0004008
1303.5	0.0642774	0.0003253
1303.98	0.0674226	0.0002614
1304.46	0.0631305	0.0003626
1304.94	0.0658318	0.000389
1305.43	0.0648326	0.0002065
1305.91	0.0727796	0.0003498
1306.39	0.0728854	0.0004221
1306.87	0.0650679	0.0001837
1307.35	0.0708411	0.0003427
1307.84	0.0753846	0.0004316
1308.32	0.0771503	0.0002466
1308.8	0.0759271	0.0004705
1309.28	0.0808827	0.0004529
1309.77	0.0765421	0.0003242
1310.25	0.0665967	0.0002894
1310.73	0.0657604	0.0004849
1311.21	0.0760577	0.0003754
1311.69	0.0742996	0.0004646
1312.18	0.0731742	0.0003681
1312.66	0.082017	0.0004211
1313.14	0.073547	0.0004069
1313.62	0.072211	0.0004381

Methanol 15.00 Mole % 26.8 Torr MS15AV5
MS15AD5

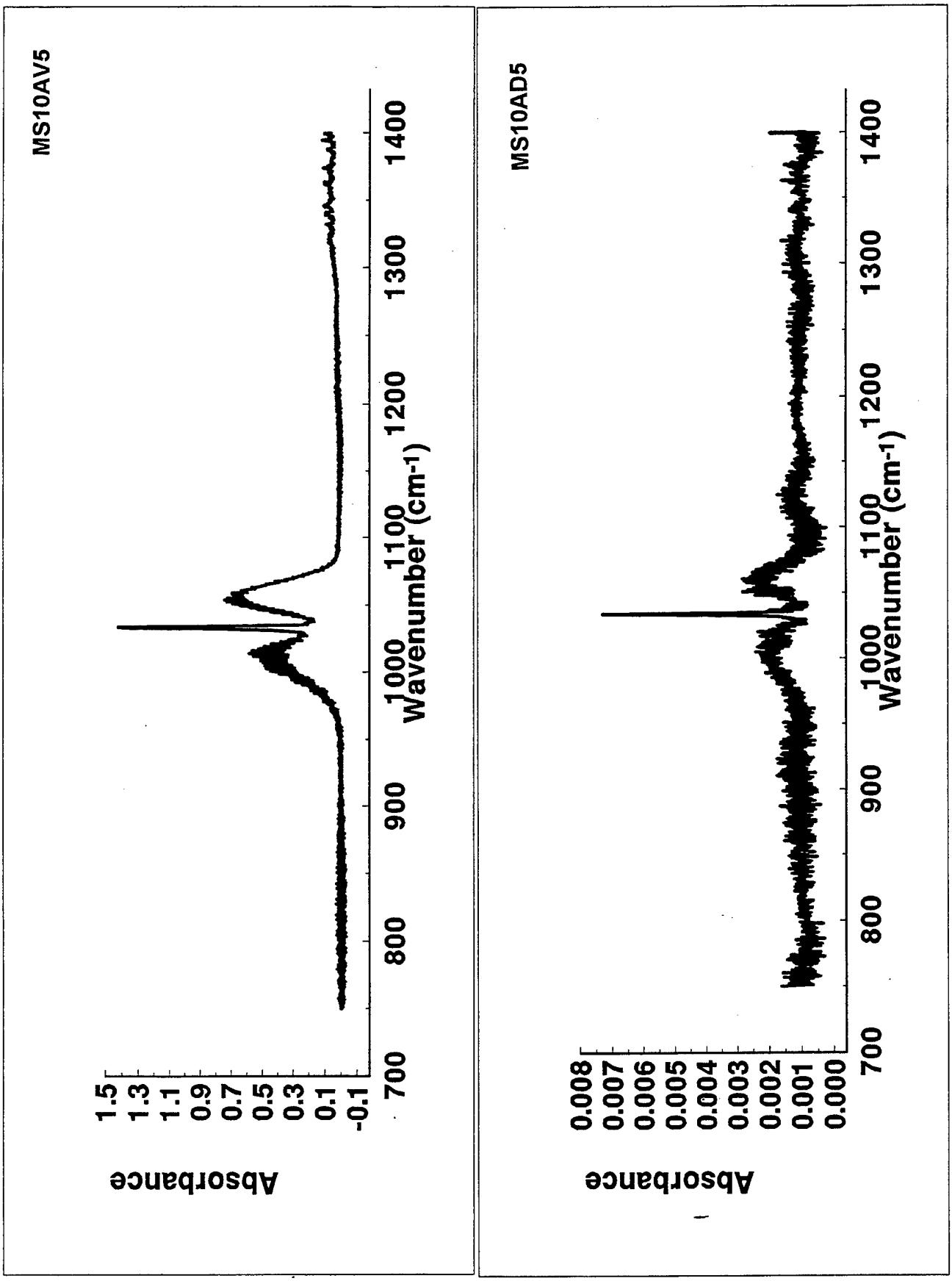
WN (cm-1)	AVE (A.U.)	AD (A.U.)
1314.11	0.0661129	0.0003495
1314.59	0.0785084	0.0003547
1315.07	0.0834105	0.000467
1315.55	0.0764383	0.0004361
1316.03	0.0734871	0.000491
1316.52	0.0790258	0.0004599
1317	0.0893293	0.0004192
1317.48	0.088956	0.0006035
1317.96	0.102216	0.0004356
1318.44	0.0885849	0.0003944
1318.93	0.101684	0.0006037
1319.41	0.0858945	0.0005713
1319.89	0.088673	0.0004401
1320.37	0.104552	0.0005977
1320.86	0.105565	0.0006423
1321.34	0.0968494	0.0005791
1321.82	0.103867	0.0005757
1322.3	0.0996456	0.0006575
1322.78	0.0854033	0.0005564
1323.27	0.0829438	0.0005311
1323.75	0.0936926	0.0006154
1324.23	0.100918	0.0006924
1324.71	0.078113	0.0005498
1325.2	0.0767139	0.0004413
1325.68	0.0925862	0.0006623
1326.16	0.0888625	0.0004867
1326.64	0.0772112	0.0005664
1327.12	0.0810124	0.0005488
1327.61	0.086374	0.000475
1328.09	0.0750659	0.0004782
1328.57	0.075096	0.0004898
1329.05	0.0910546	0.0004897
1329.54	0.0868047	0.0003998
1330.02	0.0811099	0.000571
1330.5	0.0975276	0.0006252
1330.98	0.10785	0.0005382
1331.46	0.113952	0.0006282
1331.95	0.125369	0.000655
1332.43	0.105095	0.0006419
1332.91	0.0737272	0.000482
1333.39	0.074549	0.0004916
1333.87	0.0768933	0.0004476
1334.36	0.0728208	0.0002776
1334.84	0.0686186	0.0005057
1335.32	0.0790743	0.0003722

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1335.8	0.077831	0.000418
1336.29	0.0732981	0.0004376
1336.77	0.0948075	0.0004262
1337.25	0.0853184	0.000579
1337.73	0.0808864	0.0003568
1338.21	0.0890954	0.0005053
1338.7	0.118695	0.0006044
1339.18	0.108678	0.0004512
1339.66	0.113387	0.0006015
1340.14	0.120741	0.0004632
1340.63	0.116102	0.0005338
1341.11	0.0765985	0.000592
1341.59	0.0842638	0.000474
1342.07	0.0900179	0.000571
1342.55	0.0853043	0.0004474
1343.04	0.0865297	0.0006751
1343.52	0.0946456	0.0005831
1344	0.0966802	0.0005016
1344.48	0.109861	0.0005919
1344.96	0.142548	0.0007421
1345.45	0.146465	0.0007306
1345.93	0.120093	0.0007461
1346.41	0.111926	0.0006317
1346.89	0.120872	0.0004975
1347.38	0.117251	0.0007564
1347.86	0.0941987	0.000635
1348.34	0.0991723	0.0005191
1348.82	0.0922679	0.0006354
1349.3	0.0869729	0.0005503
1349.79	0.0957482	0.0006231
1350.27	0.0850515	0.0004278
1350.75	0.0720083	0.0003379
1351.23	0.0814641	0.0006085
1351.72	0.0874456	0.0003585
1352.2	0.0818946	0.0005837
1352.68	0.0817899	0.0004481
1353.16	0.0903556	0.00036
1353.64	0.0952266	0.000368
1354.13	0.0868914	0.0002533
1354.61	0.0928583	0.0002913
1355.09	0.104513	0.0003259
1355.57	0.0864284	0.0003753
1356.05	0.086839	0.0002288
1356.54	0.0952427	0.0003557
1357.02	0.0975534	0.0004656

Methanol 15.00 Mole % 26.8 Torr MS15AV5 MS15AD5

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1357.5	0.0950558	0.0003036
1357.98	0.10119	0.0003337
1358.47	0.100469	0.0002572
1358.95	0.0868018	0.0005545
1359.43	0.0968054	0.0004261
1359.91	0.106571	0.0005218
1360.39	0.104295	0.0004597
1360.88	0.105598	0.0002509
1361.36	0.126192	0.000491
1361.84	0.093335	0.0004684
1362.32	0.0883865	0.0004341
1362.81	0.123499	0.0002337
1363.29	0.125396	0.0007354
1363.77	0.0740226	0.0007916
1364.25	0.0870205	0.0003438
1364.73	0.0946492	0.0002907
1365.22	0.0736105	0.0005495
1365.7	0.0802002	0.0005888
1366.18	0.0909199	0.0003632
1366.66	0.073893	0.0003298
1367.14	0.0753793	0.00054
1367.63	0.0920508	0.0004358
1368.11	0.0823531	0.0005214
1368.59	0.0876078	0.0004885
1369.07	0.0936008	0.0005469
1369.56	0.0860094	0.0003335
1370.04	0.0871375	0.0005687
1370.52	0.104658	0.0007416
1371	0.101015	0.0007476
1371.48	0.0827994	0.0004356
1371.97	0.0926365	0.0006469
1372.45	0.111235	0.0006362
1372.93	0.0898799	0.0006137
1373.41	0.0885582	0.000762
1373.9	0.126972	0.000859
1374.38	0.0924972	0.0007851
1374.86	0.0778307	0.0007742
1375.34	0.100135	0.0007342
1375.82	0.0874472	0.0006594
1376.31	0.0715174	0.0007847
1376.79	0.0663064	0.0009296
1377.27	0.0834273	0.0004688
1377.75	0.0793569	0.0007265
1378.23	0.0740656	0.0005721
1378.72	0.0782421	0.0006267

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1379.2	0.0869929	0.0005893
1379.68	0.0802462	0.000715
1380.16	0.080575	0.00085
1380.65	0.0787878	0.0005946
1381.13	0.0638295	0.000402
1381.61	0.0682349	0.0005939
1382.09	0.0751182	0.0006509
1382.57	0.0657179	0.0004876
1383.06	0.0646711	0.0005264
1383.54	0.0726597	0.00056
1384.02	0.0693749	0.0005358
1384.5	0.0634913	0.0005529
1384.99	0.0785272	0.0004298
1385.47	0.0851783	0.0005938
1385.95	0.0695738	0.0005894
1386.43	0.0859294	0.0005763
1386.91	0.100671	0.0003167
1387.4	0.0958655	0.0007265
1387.88	0.0988085	0.0009169
1388.36	0.0838055	0.0007822
1388.84	0.0802128	0.0006128
1389.33	0.0648275	0.0005428
1389.81	0.0698617	0.0005874
1390.29	0.0738343	0.0003477
1390.77	0.063738	0.0004101
1391.25	0.0665623	0.0005196
1391.74	0.077185	0.0005002
1392.22	0.0694677	0.000365
1392.7	0.0669108	0.0006336
1393.18	0.0815607	0.0005829
1393.66	0.0857238	0.0005249
1394.15	0.0940722	0.0004202
1394.63	0.131952	0.0006238
1395.11	0.0907338	0.000755
1395.59	0.0804644	0.0010274
1396.08	0.0922964	0.0006637
1396.56	0.080352	0.0005524
1397.04	0.0735517	0.0005326
1397.52	0.0692974	0.0006525
1398	0.095176	0.0005945
1398.49	0.0865428	0.0006724
1398.97	0.0877241	0.0005887
1399.45	0.111291	0.0008299
1399.93	0.0753216	0.0008203


MS10AV5
Absorbance
1.5
1.3
1.1
0.9
0.7
0.5
0.3
0.1
-0.1
700
800
900
1000
1100
1200
1300
1400
Wavenumber (cm-1)
MS10AD5
Absorbance
0.008
0.007
0.006
0.005
0.004
0.003
0.002
0.001
0.000
700
800
900
1000
1100
1200
1300
1400
Wavenumber (cm-1)

Methanol 10.00 Mole % 19.5 Torr MS10AV5
MS10AD5

WN (cm-1)	AVE (A.U.)	AD (A.U.)
749.927	-0.0037119	0.0016116
750.409	-0.0037763	0.0011503
750.891	-0.0059629	0.0006547
751.373	-0.0091941	0.0010019
751.856	-0.0033321	0.0013848
752.338	0.0015618	0.0007511
752.82	-0.0094241	0.0010218
753.302	-0.0135514	0.0013073
753.785	0.0018567	0.0009121
754.267	0.0023587	0.0008037
754.749	-0.0160948	0.0013339
755.231	-0.0129108	0.0013207
755.714	0.008397	0.0006466
756.196	-0.0004798	0.0010598
756.678	-0.0211629	0.0015434
757.16	-0.0062996	0.0008168
757.643	0.0110101	0.0004422
758.125	-0.0078941	0.0013068
758.607	-0.0169288	0.0012657
759.089	0.0025893	0.0005557
759.571	0.0050343	0.000779
760.054	-0.0136399	0.0015699
760.536	-0.0085364	0.0009394
761.018	0.0035844	0.0006014
761.5	-0.0061327	0.0011883
761.983	-0.0089677	0.0013029
762.465	-0.0004124	0.0006496
762.947	-0.0054513	0.0007054
763.429	-0.0114307	0.0011871
763.912	-0.0003902	0.0009871
764.394	-0.0009694	0.0009062
764.876	-0.0154709	0.0010626
765.358	-0.0063084	0.0010731
765.841	0.0070161	0.0006949
766.323	-0.0093037	0.0009984
766.805	-0.0200055	0.0011783
767.287	0.0039922	0.0005409
767.77	0.0085856	0.0008521
768.252	-0.0203149	0.0012372
768.734	-0.0155082	0.0010162
769.216	0.0119735	0.0004911
769.698	-0.0010875	0.0011284
770.181	-0.0237912	0.0014354
770.663	-0.0027973	0.0006193
771.145	0.0122446	0.0005109

WN (cm-1)	AVE (A.U.)	AD (A.U.)
771.627	-0.0129312	0.0013382
772.11	-0.016375	0.0011541
772.592	0.0055434	0.0002997
773.074	-0.0006803	0.0006559
773.556	-0.0160882	0.0013219
774.039	-0.0038118	0.000735
774.521	0.0015307	0.0004396
775.003	-0.0137782	0.0009637
775.485	-0.0073484	0.0010493
775.968	0.0045601	0.000423
776.45	-0.0110575	0.0009121
776.932	-0.0144351	0.0010638
777.414	0.010479	0.000744
777.897	0.0029144	0.0010322
778.379	-0.0223528	0.0010455
778.861	-0.0015763	0.0007569
779.343	0.0193645	0.0006863
779.825	-0.0100401	0.0009629
780.308	-0.020564	0.0009614
780.79	0.0144479	0.0004252
781.272	0.0100357	0.0008139
781.754	-0.0261598	0.0011098
782.237	-0.011209	0.0008983
782.719	0.0168106	0.0003799
783.201	-0.0080854	0.0010058
783.683	-0.0242375	0.000985
784.166	0.0038439	0.0005528
784.648	0.0065416	0.0006158
785.13	-0.0190305	0.0011611
785.612	-0.0089656	0.0008007
786.095	0.0079802	0.0003125
786.577	-0.0110704	0.0007013
787.059	-0.0138908	0.0010046
787.541	0.0056626	0.0005301
788.024	-0.0045488	0.0006679
788.506	-0.0201802	0.0008127
788.988	0.0017709	0.0007866
789.47	0.0078787	0.0008506
789.952	-0.0212251	0.0008179
790.435	-0.01293	0.0007281
790.917	0.0175534	0.0005071
791.399	-0.0063713	0.0009769
791.881	-0.0288742	0.0009636
792.364	0.005542	0.000644
792.846	0.0163509	0.0008415

Methanol 10.00 Mole % 19.5 Torr MS10AV5 MS10AD5

WN (cm-1)	AVE (A.U.)	AD (A.U.)	WN (cm-1)	AVE (A.U.)	AD (A.U.)
793.328	-0.0236639	0.0008539	815.029	-0.0285742	0.0006601
793.81	-0.0182398	0.0009127	815.511	-0.0050685	0.0010963
794.293	0.0202378	0.0005452	815.993	0.0246475	0.0010386
794.775	0.0004977	0.0008787	816.476	-0.0132932	0.001099
795.257	-0.0276349	0.0009726	816.958	-0.0272184	0.0009388
795.739	0.0014144	0.0007131	817.44	0.017685	0.0009517
796.222	0.0152259	0.000639	817.922	0.0128354	0.0010949
796.704	-0.0168513	0.0009462	818.405	-0.0289359	0.0008889
797.186	-0.0143916	0.0008292	818.887	-0.007623	0.0010038
797.668	0.0111365	0.0003594	819.369	0.0249229	0.0009488
798.151	-0.0044748	0.0009173	819.851	-0.0088086	0.0010176
798.633	-0.0183447	0.001028	820.334	-0.0225282	0.001016
799.115	0.0041259	0.0008207	820.816	0.0134236	0.0008748
799.597	0.0037592	0.0007943	821.298	0.0085348	0.0009334
800.08	-0.0193403	0.0008191	821.78	-0.0230404	0.0008949
800.562	-0.00261	0.000869	822.262	-0.003426	0.0012055
801.044	0.0129625	0.0008641	822.745	0.0128176	0.0008422
801.526	-0.0152994	0.0007947	823.227	-0.0148621	0.0009273
802.008	-0.0183465	0.0009132	823.709	-0.0140285	0.0011688
802.491	0.0165824	0.0009159	824.191	0.0143582	0.0009828
802.973	0.0024666	0.0010678	824.674	-0.0045767	0.0009939
803.455	-0.0299566	0.0007453	825.156	-0.0226752	0.0007131
803.937	-0.0002348	0.000834	825.638	0.0098983	0.0012025
804.42	0.0228318	0.0008061	826.12	0.0109305	0.0011015
804.902	-0.0183738	0.001147	826.603	-0.0257509	0.0006761
805.384	-0.023672	0.0009034	827.085	-0.0068593	0.0010072
805.866	0.0202249	0.0007219	827.567	0.0250342	0.0011427
806.349	0.0092334	0.0010338	828.049	-0.0095211	0.0010656
806.831	-0.0285575	0.0009835	828.532	-0.0278915	0.0006331
807.313	-0.0033681	0.0010157	829.014	0.0163742	0.0011112
807.795	0.0207926	0.000825	829.496	0.0145931	0.0011297
808.278	-0.0137393	0.0010121	829.978	-0.0289675	0.000899
808.76	-0.0206847	0.00106	830.461	-0.0097481	0.0011286
809.242	0.0125615	0.0006931	830.943	0.0243915	0.0009174
809.724	0.0019493	0.0006877	831.425	-0.0082275	0.0012089
810.206	-0.0229754	0.0010506	831.907	-0.0267541	0.0009805
810.689	-0.0005189	0.0010433	832.39	0.010623	0.0010821
811.171	0.0088868	0.0008567	832.872	0.010162	0.0009345
811.653	-0.0188869	0.0008156	833.354	-0.0238689	0.0007209
812.135	-0.0093396	0.0010686	833.836	-0.0069439	0.0010574
812.618	0.0143274	0.0010795	834.318	0.0143912	0.0009712
813.1	-0.0109168	0.0009739	834.801	-0.0127683	0.000837
813.582	-0.0220755	0.0007519	835.283	-0.0164175	0.0009923
814.064	0.0129221	0.0009811	835.765	0.0128838	0.001278
814.547	0.0079792	0.0010263	836.247	-0.0023362	0.0009151

Methanol 10.00 Mole % 19.5 Torr MS10AV5
MS10AD5

WN (cm-1)	AVE (A.U.)	AD (A.U.)
836.73	-0.0219133	0.0006688
837.212	0.0077609	0.0011255
837.694	0.0111976	0.0010525
838.176	-0.0231261	0.0008206
838.659	-0.0085146	0.0009726
839.141	0.0224836	0.0013718
839.623	-0.0091198	0.0011774
840.105	-0.0266022	0.0006745
840.588	0.0155948	0.0012067
841.07	0.0144344	0.0012592
841.552	-0.0281684	0.0009133
842.034	-0.0097384	0.0009787
842.516	0.0238623	0.001065
842.999	-0.0089193	0.0012852
843.481	-0.0275374	0.000749
843.963	0.0110506	0.0010674
844.445	0.0107119	0.0010301
844.928	-0.0229285	0.0007046
845.41	-0.00673	0.0010554
845.892	0.0153849	0.0011405
846.374	-0.0106212	0.0009838
846.857	-0.0162683	0.0009779
847.339	0.0107454	0.0013033
847.821	-0.0006314	0.0009743
848.303	-0.0200752	0.0005361
848.786	0.0059622	0.0013634
849.268	0.0095983	0.0010305
849.75	-0.0205252	0.0008213
850.232	-0.0066513	0.0010518
850.715	0.0199887	0.0012898
851.197	-0.0098633	0.0012095
851.679	-0.0236677	0.0005992
852.161	0.0152436	0.0012869
852.644	0.0108513	0.0010834
853.126	-0.0272898	0.0008615
853.608	-0.0067485	0.0009589
854.09	0.0223159	0.0012041
854.572	-0.0109942	0.001193
855.055	-0.0258456	0.0007572
855.537	0.0125651	0.0011091
856.019	0.0090032	0.0011043
856.501	-0.024139	0.0007217
856.984	-0.0065249	0.0011159
857.466	0.014566	0.0011397
857.948	-0.0108009	0.0009012

WN (cm-1)	AVE (A.U.)	AD (A.U.)
858.43	-0.0161668	0.0011071
858.913	0.0104396	0.0012996
859.395	0.0011686	0.0008184
859.877	-0.0164083	0.0006111
860.359	0.0061215	0.0015196
860.842	0.0074891	0.0011196
861.324	-0.0177065	0.0005972
861.806	-0.0043721	0.000922
862.288	0.0160156	0.0013694
862.771	-0.0106792	0.0010132
863.253	-0.0190244	0.0006029
863.735	0.0154609	0.0014809
864.217	0.006407	0.0011366
864.699	-0.025418	0.0006569
865.182	-0.0016042	0.0009464
865.664	0.0201402	0.0013353
866.146	-0.0126402	0.0010832
866.628	-0.0204347	0.0007738
867.111	0.0144885	0.0013683
867.593	0.0060578	0.0009626
868.075	-0.023214	0.0007369
868.557	-0.0037547	0.0011556
869.04	0.0140473	0.001185
869.522	-0.0113258	0.0010318
870.004	-0.0140526	0.0010787
870.486	0.0094512	0.0012898
870.969	-0.0008057	0.0008278
871.451	-0.0147404	0.0007134
871.933	0.0050768	0.0014812
872.415	0.0056287	0.0011535
872.898	-0.0130159	0.000676
873.38	0.0009553	0.0012015
873.862	0.0120732	0.0015297
874.344	-0.0110699	0.0008413
874.827	-0.0108358	0.0005768
875.309	0.0157411	0.0013868
875.791	0.0011489	0.0011415
876.273	-0.0210294	0.0005816
876.756	0.0041541	0.0011369
877.238	0.0152912	0.001421
877.72	-0.0154168	0.0009639
878.202	-0.0151351	0.0007834
878.684	0.0159328	0.0013565
879.167	0.0022587	0.0010506
879.649	-0.0214958	0.0006935

Methanol 10.00 Mole % 19.5 Torr MS10AV5
MS10AD5

WN (cm-1)	AVE (A.U.)	AD (A.U.)	WN (cm-1)	AVE (A.U.)	AD (A.U.)
880.131	0.0008384	0.0012291	901.832	0.0099991	0.0014413
880.613	0.0123094	0.0010678	902.314	-0.0075873	0.0008802
881.096	-0.0121539	0.0009258	902.796	-0.0115313	0.0007043
881.578	-0.0110211	0.0011971	903.279	0.0063997	0.0013572
882.06	0.0086596	0.0013357	903.761	0.0029292	0.0011274
882.542	-0.0017951	0.0006765	904.243	-0.0115864	0.0007052
883.025	-0.012289	0.0007005	904.725	-0.0041766	0.0012853
883.507	0.0036126	0.001371	905.208	0.0054911	0.0013727
883.989	0.001991	0.0010135	905.69	-0.003199	0.0008693
884.471	-0.0112822	0.0005805	906.172	-0.0068185	0.001032
884.954	0.001088	0.0012407	906.654	0.0010017	0.0014997
885.436	0.0065366	0.0014221	907.137	0.0005875	0.0008053
885.918	-0.0104855	0.0006318	907.619	-0.0028735	0.0007375
886.4	-0.0051141	0.0007314	908.101	0.0002126	0.0015501
886.882	0.0120116	0.0016489	908.583	-0.0009292	0.0013127
887.365	-0.0042047	0.0009797	909.066	-0.0021162	0.000653
887.847	-0.0155008	0.0004244	909.548	0.0028848	0.0011917
888.329	0.0080947	0.0012828	910.03	0.0009418	0.0017448
888.811	0.0087488	0.0013898	910.512	-0.0062823	0.000794
889.294	-0.015927	0.0007742	910.994	0.0004696	0.0008207
889.776	-0.0076599	0.0008506	911.477	0.0059355	0.001676
890.258	0.0137811	0.0014238	911.959	-0.0037315	0.0013468
890.74	-0.0034698	0.0009393	912.441	-0.0070347	0.0005915
891.223	-0.0179888	0.0005867	912.923	0.0051864	0.0012854
891.705	0.0044528	0.0013019	913.406	0.0034967	0.0016093
892.187	0.008279	0.0012202	913.888	-0.0081747	0.0008449
892.669	-0.0127351	0.0007086	914.37	-0.0048072	0.0008913
893.152	-0.0079438	0.0011206	914.852	0.0053336	0.0015661
893.634	0.0075724	0.0012139	915.335	-0.0007303	0.0010527
894.116	-0.0023909	0.0008399	915.817	-0.0079661	0.0008348
894.598	-0.0095573	0.0010261	916.299	-0.0003584	0.001422
895.081	0.0021051	0.0014229	916.781	0.0028682	0.0013314
895.563	0.0012241	0.0009065	917.263	-0.0024143	0.0009363
896.045	-0.0063659	0.0006794	917.746	-0.0048832	0.0013208
896.527	0.0017115	0.0013398	918.228	-0.0005099	0.0014172
897.009	0.0027687	0.0013749	918.71	0.0022048	0.0007897
897.492	-0.0065455	0.0005199	919.192	-0.0001876	0.0008493
897.974	0.0010483	0.0009302	919.675	-0.0031591	0.001717
898.456	0.0079473	0.0015632	920.157	-0.0016421	0.0011907
898.938	-0.0053366	0.0008363	920.639	0.0040383	0.0007549
899.421	-0.005071	0.0005416	921.121	0.001037	0.0014949
899.903	0.0109444	0.0014611	921.604	-0.0044984	0.0015861
900.385	0.0023111	0.0012413	922.086	-0.0011272	0.0007281
900.867	-0.0135398	0.000606	922.568	0.0048064	0.0009453
901.35	0.0001274	0.0011018	923.05	-0.0007442	0.0017365

Methanol 10.00 Mole % 19.5 Torr MS10AV5
MS10AD5

WN (cm-1)	AVE (A.U.)	AD (A.U.)
923.533	-0.0056201	0.0012297
924.015	0.0010736	0.0006462
924.497	0.0042169	0.0014962
924.979	-0.0023274	0.0014616
925.462	-0.0036588	0.0008214
925.944	0.0011412	0.0009788
926.426	0.0016979	0.0016109
926.908	-0.0023086	0.0010778
927.391	-0.002566	0.0008674
927.873	-0.0007043	0.0015591
928.355	0.0005797	0.0012799
928.837	-0.000457	0.0009189
929.319	-0.0037619	0.0013385
929.802	-0.0016191	0.0013355
930.284	0.0039928	0.000967
930.766	0.0006462	0.0010624
931.248	-0.0058703	0.0016003
931.731	0.0016293	0.0009855
932.213	0.0081873	0.0008632
932.695	-0.0019792	0.0015343
933.177	-0.0049808	0.0013424
933.66	0.0068527	0.0006146
934.142	0.005592	0.0012326
934.624	-0.0060138	0.0016315
935.106	-0.0018029	0.0009068
935.589	0.0074271	0.0007513
936.071	-0.0003335	0.0016174
936.553	-0.0056786	0.0013423
937.035	0.0023636	0.0005902
937.518	0.0030769	0.0011579
938	-0.0028034	0.001537
938.482	0.0000901	0.0009857
938.964	0.0023854	0.0008587
939.447	-0.00069	0.001397
939.929	0.0014763	0.0011195
940.411	0.0033298	0.0007163
940.893	-0.0036229	0.0012585
941.375	0.0005227	0.001312
941.858	0.0077868	0.0009202
942.34	-0.001963	0.0011064
942.822	-0.0072193	0.0013471
943.304	0.0073287	0.0008241
943.787	0.0091153	0.0009129
944.269	-0.0078076	0.001421
944.751	-0.0020364	0.0010534

WN (cm-1)	AVE (A.U.)	AD (A.U.)
945.233	0.0130981	0.0006479
945.716	9.32E-06	0.001255
946.198	-0.008676	0.0013858
946.68	0.0079493	0.0005813
947.162	0.0109292	0.0009496
947.645	-0.0066833	0.0014694
948.127	-0.001351	0.0010526
948.609	0.0111351	0.0005764
949.091	-0.0000991	0.0012444
949.573	-0.0040941	0.001383
950.056	0.0062221	0.0006794
950.538	0.0041064	0.0008622
951.02	-0.0010195	0.0015402
951.502	0.0071403	0.0009099
951.985	0.0054893	0.0007741
952.467	-0.0044461	0.0012421
952.949	0.0054066	0.0011178
953.431	0.0146428	0.0008024
953.914	-0.0015363	0.0011229
954.396	-0.0017672	0.0012639
954.878	0.0168221	0.0007216
955.36	0.0094397	0.0009971
955.843	-0.0047545	0.0012905
956.325	0.0100342	0.0009085
956.807	0.0189115	0.000776
957.289	-0.0030833	0.0012784
957.772	0.0025951	0.0011005
958.254	0.0231125	0.0006637
958.736	0.0110602	0.001114
959.218	-0.0027183	0.0013469
959.7	0.0158701	0.0007437
960.183	0.0237833	0.0007409
960.665	0.0045561	0.001466
961.147	0.007895	0.0013383
961.629	0.0212621	0.0006206
962.112	0.0106563	0.0012859
962.594	0.0109898	0.0014091
963.076	0.0220449	0.0008548
963.558	0.0145523	0.0009075
964.041	0.0062021	0.001352
964.523	0.0247797	0.0011945
965.005	0.0281832	0.000875
965.487	0.0079964	0.0013827
965.97	0.0153657	0.0010798
966.452	0.0347198	0.0009568

Methanol 10.00 Mole % 19.5 Torr MS10AV5 MS10AD5

WN (cm-1)	AVE (A.U.)	AD (A.U.)	WN (cm-1)	AVE (A.U.)	AD (A.U.)
966.934	0.0236426	0.0011706	988.635	0.194094	0.0020958
967.416	0.0161192	0.0014956	989.117	0.144025	0.0016688
967.899	0.0376281	0.0009683	989.599	0.173298	0.0013341
968.381	0.0342708	0.0011982	990.082	0.193868	0.0017256
968.863	0.0187167	0.0013676	990.564	0.241648	0.0019606
969.345	0.0392265	0.0010252	991.046	0.188895	0.0016477
969.828	0.0503638	0.0009282	991.528	0.168218	0.0015547
970.31	0.0179062	0.0013353	992.01	0.218674	0.0018377
970.792	0.022151	0.0013236	992.493	0.284833	0.0019716
971.274	0.0586729	0.0009791	992.975	0.227752	0.0019066
971.757	0.0515133	0.0012964	993.457	0.174254	0.0018904
972.239	0.0216818	0.0015667	993.939	0.256324	0.0017278
972.721	0.0371999	0.0010981	994.422	0.306317	0.0017973
973.203	0.0596717	0.0009453	994.904	0.268062	0.0020362
973.685	0.0532182	0.0015515	995.386	0.201459	0.0018825
974.168	0.0454346	0.001515	995.868	0.280096	0.0016165
974.65	0.0489368	0.0010486	996.351	0.311462	0.0019806
975.132	0.0479485	0.0012547	996.833	0.32054	0.0021915
975.614	0.0612852	0.0015978	997.315	0.240081	0.0018415
976.097	0.0816462	0.0013132	997.797	0.280577	0.0017043
976.579	0.0524699	0.0010725	998.28	0.330929	0.0020183
977.061	0.0413368	0.0014944	998.762	0.386328	0.0021925
977.543	0.0821496	0.0014645	999.244	0.269451	0.00168
978.026	0.106754	0.0014214	999.726	0.275282	0.0016255
978.508	0.0586845	0.0014917	1000.2	0.375136	0.0021935
978.99	0.0538087	0.001445	1000.69	0.444732	0.0022252
979.472	0.101849	0.0012871	1001.17	0.282484	0.0018566
979.955	0.110292	0.0015322	1001.65	0.291043	0.0018417
980.437	0.0882575	0.0017389	1002.13	0.427046	0.0020522
980.919	0.0781159	0.0012075	1002.62	0.473361	0.0022626
981.401	0.101206	0.0013266	1003.1	0.290365	0.001828
981.884	0.104545	0.001744	1003.58	0.338197	0.0016954
982.366	0.128522	0.0016171	1004.06	0.469078	0.0019253
982.848	0.106138	0.0012142	1004.54	0.47958	0.0023963
983.33	0.0913497	0.0016414	1005.03	0.308473	0.001836
983.812	0.115197	0.0017842	1005.51	0.379154	0.0016923
984.295	0.165308	0.0013172	1005.99	0.474617	0.0018964
984.777	0.130129	0.0015632	1006.47	0.490301	0.0020756
985.259	0.0864032	0.0019016	1006.96	0.338175	0.001652
985.741	0.139391	0.0014994	1007.44	0.412609	0.001587
986.224	0.185709	0.0013851	1007.92	0.478998	0.0022698
986.706	0.157877	0.0017338	1008.4	0.505369	0.0023396
987.188	0.104869	0.0018259	1008.88	0.343343	0.001394
987.67	0.165084	0.0013789	1009.37	0.437019	0.0015625
988.153	0.189005	0.0014417	1009.85	0.503136	0.0022544

Methanol 10.00 Mole % 19.5 Torr MS10AV5 MS10AD5

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1010.33	0.508944	0.0017972
1010.81	0.332886	0.0013341
1011.3	0.45893	0.0017859
1011.78	0.553945	0.0021815
1012.26	0.485319	0.0017321
1012.74	0.331409	0.0013087
1013.22	0.477839	0.0019604
1013.71	0.578538	0.0020783
1014.19	0.424618	0.0013822
1014.67	0.363027	0.0017779
1015.15	0.505737	0.0017876
1015.64	0.560988	0.001855
1016.12	0.352669	0.0013351
1016.6	0.428458	0.0022637
1017.08	0.522169	0.0015781
1017.56	0.49907	0.0016971
1018.05	0.317035	0.0018111
1018.53	0.468633	0.0020625
1019.01	0.485672	0.0015442
1019.49	0.388966	0.0016547
1019.98	0.321721	0.0023295
1020.46	0.440479	0.001226
1020.94	0.437416	0.0019783
1021.42	0.293697	0.0018282
1021.9	0.362973	0.0018663
1022.39	0.374602	0.0013795
1022.87	0.335066	0.0016539
1023.35	0.242467	0.0016319
1023.83	0.326561	0.0011896
1024.32	0.321798	0.0017372
1024.8	0.270343	0.0016018
1025.28	0.255715	0.0010107
1025.76	0.261715	0.0008505
1026.25	0.259117	0.0015859
1026.73	0.21278	0.0008731
1027.21	0.263831	0.0008891
1027.69	0.243009	0.0012668
1028.17	0.22361	0.0012353
1028.66	0.228645	0.0009982
1029.14	0.238615	0.0008633
1029.62	0.259834	0.0013868
1030.1	0.301835	0.0012108
1030.58	0.366273	0.0014033
1031.07	0.439838	0.0015842
1031.55	0.593765	0.0016471

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1032.03	0.751639	0.0022398
1032.51	0.989765	0.0036928
1033	1.33495	0.0041468
1033.48	1.41761	0.0072813
1033.96	1.07594	0.0056206
1034.44	0.61719	0.0034395
1034.92	0.278264	0.0017036
1035.41	0.208202	0.0012601
1035.89	0.206633	0.0019972
1036.37	0.2216	0.0019773
1036.85	0.190097	0.0009647
1037.34	0.168158	0.0012541
1037.82	0.174853	0.0015783
1038.3	0.198299	0.0011492
1038.78	0.192822	0.0008538
1039.26	0.171988	0.0015205
1039.75	0.205982	0.0012478
1040.23	0.230642	0.000826
1040.71	0.227575	0.0011424
1041.19	0.247357	0.0014437
1041.67	0.302536	0.0010311
1042.16	0.291386	0.0008433
1042.64	0.26413	0.0012997
1043.12	0.365153	0.0013422
1043.6	0.370299	0.0011916
1044.09	0.303395	0.0011745
1044.57	0.416396	0.0013991
1045.05	0.44528	0.0016953
1045.53	0.357354	0.0012005
1046.01	0.466149	0.0014861
1046.5	0.523869	0.0017002
1046.98	0.423639	0.0013752
1047.46	0.511473	0.0013848
1047.94	0.576255	0.0024348
1048.43	0.475066	0.0012478
1048.91	0.550258	0.0012532
1049.39	0.636702	0.0022145
1049.87	0.521653	0.0016958
1050.35	0.585716	0.0012956
1050.84	0.689441	0.0027925
1051.32	0.561906	0.0016937
1051.8	0.608998	0.0012369
1052.28	0.72418	0.002639
1052.77	0.590606	0.0019969
1053.25	0.629216	0.0013215

Methanol 10.00 Mole % 19.5 Torr MS10AV5 MS10AD5

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1053.73	0.739097	0.002483
1054.21	0.60546	0.0023917
1054.69	0.650088	0.0017874
1055.18	0.721009	0.0019039
1055.66	0.618392	0.0021038
1056.14	0.671704	0.0023744
1056.62	0.679081	0.0020164
1057.1	0.630974	0.0023817
1057.59	0.689554	0.0026954
1058.07	0.624277	0.0019614
1058.55	0.622678	0.0019574
1059.03	0.688742	0.0027601
1059.52	0.597269	0.002184
1060	0.599117	0.001801
1060.48	0.632114	0.002811
1060.96	0.598698	0.0025324
1061.44	0.593947	0.0017393
1061.93	0.544245	0.0018371
1062.41	0.549377	0.0025565
1062.89	0.565342	0.0019628
1063.37	0.516335	0.0018825
1063.86	0.508307	0.0024245
1064.34	0.487088	0.0021989
1064.82	0.474768	0.001662
1065.3	0.474719	0.0025136
1065.78	0.438097	0.0022447
1066.27	0.407671	0.0012827
1066.75	0.388537	0.0017691
1067.23	0.413034	0.0023842
1067.71	0.385643	0.0014962
1068.19	0.336382	0.0015561
1068.68	0.350608	0.0022055
1069.16	0.320809	0.0018956
1069.64	0.295882	0.0011552
1070.12	0.298345	0.0016951
1070.61	0.273876	0.0021273
1071.09	0.266807	0.0011372
1071.57	0.234068	0.0015118
1072.05	0.234579	0.0020041
1072.53	0.219476	0.0014853
1073.02	0.200859	0.0009365
1073.5	0.199391	0.001577
1073.98	0.178432	0.0017407
1074.46	0.172406	0.0009048
1074.95	0.14021	0.0013118

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1075.43	0.158272	0.0016611
1075.91	0.11096	0.0010913
1076.39	0.124142	0.0010011
1076.87	0.109169	0.0014692
1077.36	0.109493	0.001186
1077.84	0.0799957	0.0006871
1078.32	0.0911756	0.0011896
1078.8	0.0839803	0.0014595
1079.28	0.0694026	0.0005551
1079.77	0.0607894	0.0009498
1080.25	0.0727213	0.0014174
1080.73	0.0585934	0.0006948
1081.21	0.0452096	0.0004102
1081.7	0.0515245	0.0013142
1082.18	0.0499931	0.0011583
1082.66	0.0365738	0.0003329
1083.14	0.0357709	0.0010477
1083.62	0.0376214	0.0012935
1084.11	0.0326034	0.0006337
1084.59	0.0292196	0.0005793
1085.07	0.0292952	0.0012379
1085.55	0.0282673	0.000835
1086.04	0.0235838	0.0003909
1086.52	0.0250989	0.0011358
1087	0.0235189	0.0011069
1087.48	0.0177463	0.0004382
1087.96	0.0211187	0.0008025
1088.45	0.0242514	0.0012121
1088.93	0.0174294	0.0005291
1089.41	0.0152498	0.0005596
1089.89	0.0232984	0.0013221
1090.37	0.019274	0.0009457
1090.86	0.0112254	0.0002759
1091.34	0.0178919	0.0009643
1091.82	0.0240998	0.0011886
1092.3	0.0168797	0.0004212
1092.79	0.0141016	0.0006702
1093.27	0.0253451	0.001363
1093.75	0.0238745	0.0006026
1094.23	0.0157014	0.000411
1094.71	0.0159883	0.0011821
1095.2	0.0197624	0.0008429
1095.68	0.015197	0.00041
1096.16	0.0121084	0.0007441
1096.64	0.0160227	0.0011889

Methanol 10.00 Mole % 19.5 Torr MS10AV5
MS10AD5

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1097.13	0.018257	0.0004381
1097.61	0.0178611	0.0006432
1098.09	0.0135105	0.0011936
1098.57	0.01307	0.0008148
1099.05	0.0161731	0.0002499
1099.54	0.0148119	0.0010319
1100.02	0.011666	0.0011344
1100.5	0.0131832	0.0004259
1100.98	0.0152265	0.000803
1101.46	0.0146233	0.0012713
1101.95	0.0100951	0.0006457
1102.43	0.0123817	0.0005125
1102.91	0.0160543	0.0011996
1103.39	0.0122498	0.0010675
1103.88	0.0099712	0.0005243
1104.36	0.0127403	0.0009342
1104.84	0.0149724	0.0011838
1105.32	0.0126662	0.0006212
1105.8	0.0111547	0.0008433
1106.29	0.0153661	0.0014362
1106.77	0.0164663	0.0008778
1107.25	0.0113597	0.0007273
1107.73	0.00883	0.0013295
1108.22	0.0133443	0.0010981
1108.7	0.0170462	0.0007834
1109.18	0.0094059	0.0011028
1109.66	0.0077683	0.0014155
1110.14	0.0144756	0.00071
1110.63	0.0138143	0.0010622
1111.11	0.0088108	0.0015737
1111.59	0.012202	0.0011404
1112.07	0.0169094	0.000675
1112.56	0.0116328	0.0014473
1113.04	0.0085859	0.0013777
1113.52	0.014804	0.0006338
1114	0.0185469	0.0012673
1114.48	0.0153591	0.0016106
1114.97	0.0129205	0.0009333
1115.45	0.0138967	0.0008739
1115.93	0.0109258	0.0015038
1116.41	0.0101367	0.0011997
1116.89	0.0104506	0.0008693
1117.38	0.0075842	0.0014259
1117.86	0.0102447	0.0014275
1118.34	0.0116829	0.0009617

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1118.82	0.00597	0.0012872
1119.31	0.0069307	0.0015393
1119.79	0.013375	0.0010504
1120.27	0.0099735	0.0011759
1120.75	0.0050984	0.0015596
1121.23	0.0109635	0.0011909
1121.72	0.0142596	0.0010908
1122.2	0.0065232	0.0014909
1122.68	0.0050937	0.0014896
1123.16	0.0140165	0.0008363
1123.65	0.0121336	0.0012767
1124.13	0.0045528	0.0017226
1124.61	0.0092929	0.0010263
1125.09	0.0127283	0.0009743
1125.57	0.006487	0.001553
1126.06	0.0045031	0.0013209
1126.54	0.0105059	0.0009039
1127.02	0.0088091	0.0013306
1127.5	0.0049172	0.0015796
1127.98	0.0079116	0.0009027
1128.47	0.007794	0.0010877
1128.95	0.0057894	0.0015488
1129.43	0.0099572	0.0010958
1129.91	0.0076877	0.0011104
1130.4	0.0032202	0.0013509
1130.88	0.0076227	0.001273
1131.36	0.0102019	0.0008928
1131.84	0.0040229	0.001371
1132.32	0.0024086	0.0013443
1132.81	0.0110657	0.0010002
1133.29	0.0079204	0.0012124
1133.77	-0.0005711	0.0013403
1134.25	0.0084326	0.0009073
1134.74	0.0153659	0.0009559
1135.22	0.0063257	0.0014361
1135.7	0.0054533	0.0013126
1136.18	0.0166605	0.0007147
1136.66	0.0097761	0.0011241
1137.15	0.0009568	0.0014095
1137.63	0.0083485	0.0009493
1138.11	0.0119616	0.0008131
1138.59	0.0036844	0.0014375
1139.07	0.0029007	0.0011503
1139.56	0.0089311	0.0007499
1140.04	0.0068673	0.0012001

Methanol 10.00 Mole % 19.5 Torr MS10AV5 MS10AD5

WN (cm-1)	AVE (A.U.)	AD (A.U.)	WN (cm-1)	AVE (A.U.)	AD (A.U.)
1140.52	0.0036085	0.0012483	1162.22	0.0146355	0.0008035
1141	0.0104349	0.0007662	1162.7	0.0023092	0.001037
1141.49	0.0130021	0.0010309	1163.18	-0.0018008	0.0011957
1141.97	0.0040794	0.0013442	1163.67	0.0115863	0.0007474
1142.45	0.0084476	0.0007935	1164.15	0.0093153	0.0009722
1142.93	0.0081757	0.0008941	1164.63	0.000426	0.0011496
1143.41	0.0007623	0.0010865	1165.11	0.0077778	0.000943
1143.9	0.0068449	0.0009846	1165.59	0.0097139	0.0008814
1144.38	0.0135257	0.0008336	1166.08	-0.0011189	0.0010237
1144.86	0.0023749	0.0011487	1166.56	0.0030783	0.0011236
1145.34	0.0002485	0.0010667	1167.04	0.0099831	0.0008832
1145.83	0.0126835	0.0006453	1167.52	-0.0002329	0.0009094
1146.31	0.0073539	0.0010479	1168.01	-0.0004888	0.0010727
1146.79	-0.0039519	0.001211	1168.49	0.0115461	0.0010447
1147.27	0.0075398	0.0007444	1168.97	0.0040956	0.001089
1147.75	0.01437	0.0008157	1169.45	-0.0055249	0.0009687
1148.24	-0.0002908	0.0012659	1169.93	0.0094941	0.0008972
1148.72	0.0002154	0.0009335	1170.42	0.0115286	0.0010293
1149.2	0.0139876	0.0006406	1170.9	-0.0059861	0.0010648
1149.68	0.0064373	0.0011398	1171.38	0.0010203	0.0009447
1150.16	-0.0036441	0.0011484	1171.86	0.0159691	0.0010468
1150.65	0.0072373	0.000598	1172.35	0.0007803	0.0011059
1151.13	0.0093644	0.0008041	1172.83	-0.0053881	0.0011015
1151.61	-0.0010432	0.0011703	1173.31	0.0129642	0.0009839
1152.09	0.0038546	0.000879	1173.79	0.0106886	0.0010251
1152.58	0.0109025	0.0006487	1174.27	-0.0046728	0.0011324
1153.06	0.0014345	0.0010932	1174.76	0.0070934	0.0011149
1153.54	0.0011236	0.0009506	1175.24	0.0148801	0.0009305
1154.02	0.0102812	0.0008323	1175.72	-0.0001669	0.0012311
1154.5	0.0025534	0.0009295	1176.2	0.0004366	0.0011136
1154.99	-0.0026035	0.0009243	1176.68	0.0136843	0.0010301
1155.47	0.0090802	0.0007577	1177.17	0.0054571	0.0010104
1155.95	0.0063249	0.0009646	1177.65	-0.0017058	0.0012213
1156.43	-0.004003	0.0011094	1178.13	0.0109664	0.0011341
1156.92	0.0073117	0.0008402	1178.61	0.0092673	0.0010651
1157.4	0.0139189	0.0009702	1179.1	-0.0027986	0.0010326
1157.88	-0.0021277	0.0010407	1179.58	0.0088515	0.0011797
1158.36	-0.0010085	0.0009885	1180.06	0.0137084	0.0010859
1158.84	0.015199	0.0007347	1180.54	-0.0013752	0.0011314
1159.33	0.0052257	0.0010563	1181.02	0.0030522	0.0010908
1159.81	-0.0052593	0.0010459	1181.51	0.0166199	0.0011836
1160.29	0.0107276	0.000871	1181.99	0.004829	0.0011779
1160.77	0.0132053	0.000842	1182.47	-0.0016972	0.0010752
1161.26	-0.003289	0.0011464	1182.95	0.0162077	0.0011038
1161.74	0.0015471	0.0008603	1183.44	0.0135465	0.0011345

Methanol 10.00 Mole % 19.5 Torr MS10AV5 MS10AD5

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1183.92	-0.0025223	0.0011569
1184.4	0.0088896	0.0011643
1184.88	0.0187444	0.0010745
1185.36	0.0027672	0.0012362
1185.85	0.0007408	0.0012587
1186.33	0.018554	0.0009954
1186.81	0.0120186	0.0012214
1187.29	0.0002582	0.0011717
1187.77	0.0135476	0.0012083
1188.26	0.015812	0.0010668
1188.74	0.0028532	0.0011148
1189.22	0.0075088	0.0012732
1189.7	0.0173545	0.0011238
1190.19	0.006107	0.0009817
1190.67	0.0049392	0.001224
1191.15	0.016891	0.0012592
1191.63	0.0097682	0.0011441
1192.11	0.0035695	0.00101
1192.6	0.016456	0.0011576
1193.08	0.0152299	0.0012659
1193.56	0.002034	0.0010489
1194.04	0.0118552	0.0010887
1194.53	0.0217775	0.0013617
1195.01	0.0058188	0.0009844
1195.49	0.0073445	0.0010374
1195.97	0.0234414	0.0011005
1196.45	0.0134035	0.0012551
1196.94	0.003008	0.0011069
1197.42	0.0188123	0.0011544
1197.9	0.0234838	0.0011749
1198.38	0.0048	0.0011467
1198.86	0.0112919	0.001034
1199.35	0.0242442	0.0011137
1199.83	0.0117	0.0011352
1200.31	0.0067106	0.0010894
1200.79	0.0216402	0.0011669
1201.28	0.0191644	0.0010196
1201.76	0.0080033	0.0010465
1202.24	0.0218138	0.0012955
1202.72	0.0234945	0.0011422
1203.2	0.0091286	0.0008573
1203.69	0.014407	0.0010996
1204.17	0.0249441	0.0012507
1204.65	0.0117332	0.0009232
1205.13	0.0100077	0.0009889

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1205.62	0.0257545	0.0012108
1206.1	0.0180306	0.0011224
1206.58	0.0067862	0.0009282
1207.06	0.0213532	0.0010914
1207.54	0.0281203	0.0011893
1208.03	0.0100722	0.0009692
1208.51	0.0158586	0.0010071
1208.99	0.0319212	0.0011584
1209.47	0.0158622	0.001061
1209.95	0.0078017	0.0009994
1210.44	0.0236931	0.0010668
1210.92	0.0250782	0.0011374
1211.4	0.0115634	0.0009919
1211.88	0.0211509	0.0011573
1212.37	0.031055	0.0009828
1212.85	0.0191192	0.0009927
1213.33	0.0172249	0.001109
1213.81	0.0295046	0.0011321
1214.29	0.0247267	0.0008674
1214.78	0.0172378	0.0009672
1215.26	0.0245068	0.0012451
1215.74	0.0213457	0.0010706
1216.22	0.0118899	0.0009086
1216.71	0.0203401	0.0011529
1217.19	0.0238371	0.0011895
1217.67	0.0111003	0.0008685
1218.15	0.0165832	0.0009668
1218.63	0.0272057	0.001274
1219.12	0.0150185	0.0011033
1219.6	0.0102565	0.000857
1220.08	0.0262498	0.0011063
1220.56	0.0237769	0.0011662
1221.05	0.0079107	0.0009133
1221.53	0.0201136	0.0009403
1222.01	0.0269583	0.0011895
1222.49	0.0140646	0.0009569
1222.97	0.0143583	0.0011039
1223.46	0.0268428	0.0011606
1223.94	0.0212921	0.0009235
1224.42	0.0143912	0.001016
1224.9	0.0277225	0.0012472
1225.38	0.0310506	0.0010607
1225.87	0.0159427	0.0009149
1226.35	0.020109	0.0012089
1226.83	0.0252629	0.0011452

Methanol 10.00 Mole % 19.5 Torr MS10AV5
MS10AD5

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1227.31	0.0179764	0.0008638
1227.8	0.0183438	0.0011939
1228.28	0.0299011	0.0012686
1228.76	0.0200934	0.001036
1229.24	0.0118937	0.0008175
1229.72	0.0233523	0.0012921
1230.21	0.0180188	0.0011303
1230.69	0.0087945	0.0008286
1231.17	0.0174088	0.0010087
1231.65	0.0246562	0.0012207
1232.14	0.0147373	0.0009983
1232.62	0.0194157	0.0010219
1233.1	0.0308285	0.0012474
1233.58	0.0235951	0.0010882
1234.06	0.0138199	0.0009442
1234.55	0.020813	0.0012951
1235.03	0.0242231	0.0010487
1235.51	0.0104143	0.0008624
1235.99	0.013838	0.0010927
1236.47	0.0251997	0.001239
1236.96	0.0190992	0.001055
1237.44	0.0133443	0.0012022
1237.92	0.024339	0.0012077
1238.4	0.0250447	0.0010396
1238.89	0.0231714	0.0009223
1239.37	0.0283138	0.0013091
1239.85	0.0303329	0.0012391
1240.33	0.0198578	0.0008735
1240.81	0.0240735	0.0011132
1241.3	0.0271245	0.0013989
1241.78	0.0161723	0.0008486
1242.26	0.018025	0.000958
1242.74	0.0300123	0.0013559
1243.23	0.0213515	0.0011149
1243.71	0.0139596	0.0008925
1244.19	0.027297	0.0012025
1244.67	0.0263963	0.0011773
1245.15	0.0129501	0.0008849
1245.64	0.0187763	0.0009738
1246.12	0.0286805	0.0012631
1246.6	0.0180654	0.0010087
1247.08	0.0153086	0.0009291
1247.56	0.0267455	0.001334
1248.05	0.0255307	0.0010599
1248.53	0.0182624	0.000926

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1249.01	0.0277145	0.0012931
1249.49	0.029503	0.001095
1249.98	0.0218633	0.0008019
1250.46	0.0230913	0.0011085
1250.94	0.0277593	0.0012369
1251.42	0.0215916	0.0008929
1251.9	0.0218975	0.000915
1252.39	0.0274604	0.0014026
1252.87	0.0235065	0.0010602
1253.35	0.0210796	0.0006488
1253.83	0.0289465	0.0011868
1254.32	0.0266389	0.0012292
1254.8	0.0199184	0.0007996
1255.28	0.0269915	0.0009233
1255.76	0.0310987	0.0014189
1256.24	0.0232561	0.0009449
1256.73	0.0243213	0.0007369
1257.21	0.0325235	0.0011932
1257.69	0.0276402	0.001042
1258.17	0.0225159	0.0007144
1258.65	0.0286276	0.00104
1259.14	0.029726	0.001217
1259.62	0.0218716	0.0008389
1260.1	0.0263536	0.0008521
1260.58	0.0333841	0.0011248
1261.07	0.024373	0.0008507
1261.55	0.0242215	0.0008002
1262.03	0.0290878	0.0013458
1262.51	0.0266536	0.0010844
1262.99	0.0258346	0.0008325
1263.48	0.0258771	0.001093
1263.96	0.0268757	0.0010891
1264.44	0.0245753	0.0007051
1264.92	0.0264885	0.00089
1265.41	0.0279799	0.0013493
1265.89	0.0238647	0.0008835
1266.37	0.0247305	0.0007387
1266.85	0.0305022	0.0012112
1267.33	0.025444	0.0010387
1267.82	0.0237592	0.0006479
1268.3	0.0298795	0.0009443
1268.78	0.0292715	0.0012734
1269.26	0.0247658	0.0007109
1269.74	0.0272979	0.0008986
1270.23	0.0311069	0.0011269

Methanol 10.00 Mole % 19.5 Torr MS10AV5
MS10AD5

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1270.71	0.0260072	0.000961
1271.19	0.0225386	0.0006769
1271.67	0.0292865	0.0009555
1272.16	0.0301736	0.0009775
1272.64	0.0234281	0.0008008
1273.12	0.0242723	0.0009537
1273.6	0.027913	0.0010994
1274.08	0.0240059	0.0006846
1274.57	0.0244969	0.0008499
1275.05	0.0263353	0.0010604
1275.53	0.0242617	0.0009868
1276.01	0.0253231	0.0007721
1276.5	0.0264798	0.0011322
1276.98	0.024281	0.0009684
1277.46	0.0239047	0.0007753
1277.94	0.0265335	0.0010428
1278.42	0.0256178	0.0012361
1278.91	0.0226833	0.0006687
1279.39	0.0277478	0.0007809
1279.87	0.027824	0.0012691
1280.35	0.0249407	0.0009863
1280.84	0.0255571	0.0006627
1281.32	0.0278846	0.001213
1281.8	0.0279162	0.0010689
1282.28	0.0244046	0.0006401
1282.76	0.0274555	0.0008666
1283.25	0.0287419	0.0012268
1283.73	0.0288528	0.0009091
1284.21	0.0286183	0.0008053
1284.69	0.027337	0.0011546
1285.17	0.0284459	0.0010052
1285.66	0.0276091	0.0006928
1286.14	0.0257143	0.0011233
1286.62	0.0269297	0.0010868
1287.1	0.0326305	0.0009335
1287.59	0.0304135	0.0009733
1288.07	0.0246312	0.00126
1288.55	0.0314494	0.0008515
1289.03	0.0351482	0.0009543
1289.51	0.0285529	0.0013492
1290	0.0279045	0.0010189
1290.48	0.0353894	0.0007328
1290.96	0.0343115	0.0013419
1291.44	0.0257737	0.0013137
1291.93	0.0330683	0.000822

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1292.41	0.0390952	0.0009655
1292.89	0.0359435	0.0015376
1293.37	0.0360359	0.0010252
1293.85	0.04511	0.0008501
1294.34	0.0375407	0.0012403
1294.82	0.0358425	0.0012213
1295.3	0.0366835	0.0009569
1295.78	0.0378132	0.0011871
1296.26	0.0396234	0.0012785
1296.75	0.0385508	0.0009731
1297.23	0.0388561	0.0010055
1297.71	0.0369446	0.0012078
1298.19	0.0416492	0.0011445
1298.68	0.0388491	0.0010156
1299.16	0.0377287	0.0015476
1299.64	0.0409418	0.0011728
1300.12	0.0427683	0.000785
1300.6	0.0422766	0.0011946
1301.09	0.0373486	0.0012906
1301.57	0.0454686	0.0010278
1302.05	0.0459381	0.0012947
1302.53	0.0433459	0.0014102
1303.02	0.0450493	0.0011378
1303.5	0.0461757	0.0009391
1303.98	0.0441594	0.0013452
1304.46	0.0425869	0.0012972
1304.94	0.0472435	0.000852
1305.43	0.0444616	0.0012961
1305.91	0.0484151	0.0014008
1306.39	0.0512175	0.0009629
1306.87	0.0453328	0.0012596
1307.35	0.0469603	0.0014568
1307.84	0.0524815	0.0012372
1308.32	0.0552545	0.0010152
1308.8	0.0516291	0.0013689
1309.28	0.0558279	0.0012962
1309.77	0.0544318	0.0010749
1310.25	0.0448923	0.0011097
1310.73	0.0445689	0.0014288
1311.21	0.0545605	0.0010245
1311.69	0.0510419	0.0011399
1312.18	0.0487172	0.0011828
1312.66	0.0606579	0.0012064
1313.14	0.0538361	0.0010763
1313.62	0.0484427	0.0014225

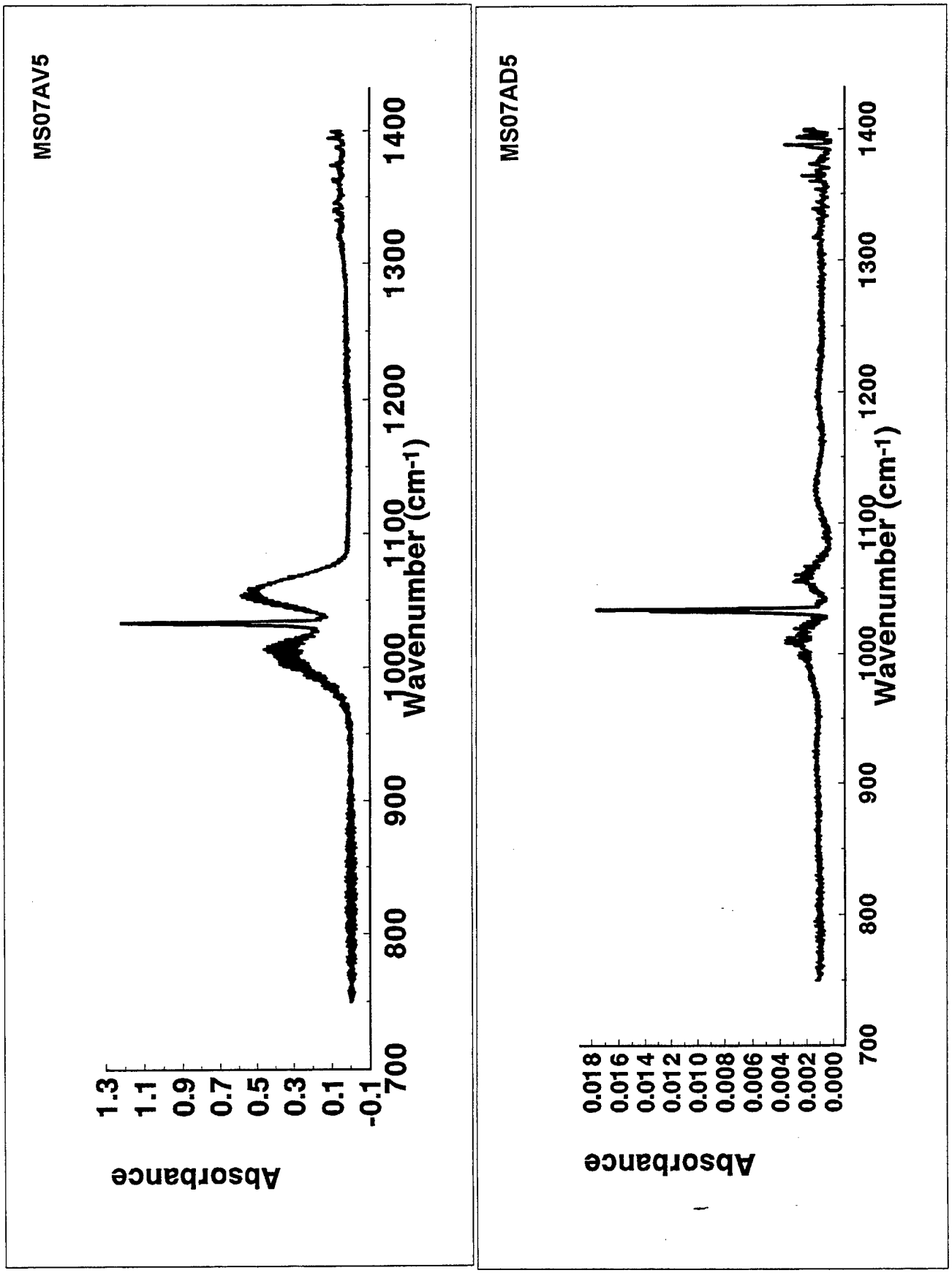
Methanol 10.00 Mole % 19.5 Torr MS10AV5
MS10AD5

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1314.11	0.0452456	0.001245
1314.59	0.0576694	0.0010058
1315.07	0.0575912	0.0012679
1315.55	0.0510955	0.0013061
1316.03	0.0523916	0.001058
1316.52	0.0564258	0.0011529
1317	0.0602432	0.0016032
1317.48	0.0624093	0.0013499
1317.96	0.0737968	0.0009124
1318.44	0.0607071	0.0012391
1318.93	0.0733616	0.0011744
1319.41	0.0632158	0.0012025
1319.89	0.0617068	0.0010082
1320.37	0.0722446	0.0013761
1320.86	0.0756149	0.001137
1321.34	0.0675635	0.0011471
1321.82	0.0705426	0.0010087
1322.3	0.0712403	0.0009977
1322.78	0.0607264	0.0009401
1323.27	0.0553783	0.0011618
1323.75	0.0651604	0.0011207
1324.23	0.0729538	0.0010115
1324.71	0.052551	0.001196
1325.2	0.0511087	0.0012079
1325.68	0.0664981	0.0008324
1326.16	0.0624509	0.0008323
1326.64	0.0506696	0.0011358
1327.12	0.0569281	0.0010797
1327.61	0.0622235	0.0009896
1328.09	0.0489138	0.0012153
1328.57	0.0501288	0.0011687
1329.05	0.0652303	0.0006514
1329.54	0.0589937	0.0009414
1330.02	0.0536371	0.0011699
1330.5	0.0685683	0.0009389
1330.98	0.0751461	0.0007739
1331.46	0.0760984	0.0012173
1331.95	0.088694	0.001146
1332.43	0.0758803	0.0008349
1332.91	0.0505421	0.0009282
1333.39	0.0521823	0.0008817
1333.87	0.0558798	0.0007525
1334.36	0.0495893	0.0009141
1334.84	0.0463046	0.0011245
1335.32	0.0575406	0.0009482

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1335.8	0.0540461	0.0009668
1336.29	0.0492249	0.0009562
1336.77	0.0724693	0.0009433
1337.25	0.0621461	0.0009475
1337.73	0.0537715	0.001113
1338.21	0.063995	0.0010227
1338.7	0.0930768	0.0010506
1339.18	0.0788518	0.0012803
1339.66	0.0812977	0.0013481
1340.14	0.0924888	0.0008554
1340.63	0.0912159	0.000896
1341.11	0.0532275	0.0013488
1341.59	0.0599942	0.0010964
1342.07	0.0652746	0.0008461
1342.55	0.0573112	0.0011173
1343.04	0.0590995	0.0012523
1343.52	0.0676421	0.0009296
1344	0.0648756	0.0009487
1344.48	0.0733568	0.0012039
1344.96	0.100093	0.0010077
1345.45	0.102033	0.0009122
1345.93	0.0814534	0.000885
1346.41	0.0801587	0.0011595
1346.89	0.0857946	0.0007601
1347.38	0.0800472	0.0009588
1347.86	0.067798	0.0009428
1348.34	0.0727994	0.0007348
1348.82	0.0637428	0.0010273
1349.3	0.0599257	0.0010083
1349.79	0.0715357	0.000936
1350.27	0.0601376	0.0009457
1350.75	0.0471574	0.0009174
1351.23	0.0581183	0.000975
1351.72	0.0632991	0.0008892
1352.2	0.0535549	0.0010707
1352.68	0.0556258	0.0010838
1353.16	0.0661404	0.0009244
1353.64	0.0653409	0.0010648
1354.13	0.058083	0.0012702
1354.61	0.0681367	0.000954
1355.09	0.0758602	0.0008376
1355.57	0.0583313	0.0012269
1356.05	0.0616425	0.0010072
1356.54	0.0679304	0.0011002
1357.02	0.0661026	0.0010837

Methanol 10.00 Mole % 19.5 Torr MS10AV5 MS10AD5

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1357.5	0.0661418	0.0011633
1357.98	0.0725653	0.001155
1358.47	0.0689541	0.0008079
1358.95	0.0600306	0.0008734
1359.43	0.0703582	0.001001
1359.91	0.0734555	0.0010994
1360.39	0.0708473	0.0011538
1360.88	0.0789598	0.0010481
1361.36	0.0994887	0.0013534
1361.84	0.0654293	0.0011949
1362.32	0.0652618	0.0009078
1362.81	0.0981248	0.0008017
1363.29	0.101587	0.0015892
1363.77	0.0558102	0.0012131
1364.25	0.0648864	0.0010158
1364.73	0.0669646	0.0009926
1365.22	0.048761	0.0011563
1365.7	0.056915	0.0009005
1366.18	0.0658931	0.000778
1366.66	0.0487595	0.0010689
1367.14	0.0520171	0.0010371
1367.63	0.0669222	0.0012861
1368.11	0.0571171	0.0010365
1368.59	0.0632642	0.0011556
1369.07	0.0707723	0.0013168
1369.56	0.0608672	0.0009504
1370.04	0.0592967	0.0010435
1370.52	0.0747463	0.0011522
1371	0.0720958	0.0009979
1371.48	0.0562725	0.001002
1371.97	0.0651775	0.000901
1372.45	0.0818692	0.0012462
1372.93	0.0633284	0.0008441
1373.41	0.065606	0.0007978
1373.9	0.107496	0.0013892
1374.38	0.0712261	0.0012254
1374.86	0.056226	0.000869
1375.34	0.0810452	0.0015093
1375.82	0.0661943	0.0009832
1376.31	0.0483897	0.000845
1376.79	0.0470139	0.0012986
1377.27	0.0619578	0.0009026
1377.75	0.0557776	0.0008773
1378.23	0.0537539	0.000815
1378.72	0.0575751	0.0010226
1379.2	0.0618881	0.0007073
1379.68	0.0559157	0.0007765
1380.16	0.0577311	0.001085
1380.65	0.0577501	0.000742
1381.13	0.0439641	0.0005827
1381.61	0.0482471	0.0007245
1382.09	0.0552581	0.0010209
1382.57	0.0456137	0.0006653
1383.06	0.0444963	0.0008406
1383.54	0.0532734	0.0008765
1384.02	0.0481317	0.0005869
1384.5	0.0422908	0.0003891
1384.99	0.0562084	0.0007617
1385.47	0.0612465	0.0010525
1385.95	0.047549	0.0007734
1386.43	0.06451	0.0007588
1386.91	0.0786099	0.000796
1387.4	0.0753044	0.0006123
1387.88	0.0832722	0.0011025
1388.36	0.0653935	0.0011001
1388.84	0.0594486	0.0008325
1389.33	0.0451912	0.0005791
1389.81	0.052105	0.0011638
1390.29	0.055301	0.0007735
1390.77	0.0437392	0.0005863
1391.25	0.0459732	0.0005326
1391.74	0.0556793	0.0004909
1392.22	0.0476231	0.0006543
1392.7	0.045412	0.0007664
1393.18	0.0592702	0.0010432
1393.66	0.062482	0.0007151
1394.15	0.0709077	0.0005476
1394.63	0.115646	0.0010993
1395.11	0.0748131	0.0010844
1395.59	0.0622938	0.0005111
1396.08	0.0765802	0.0010259
1396.56	0.0616371	0.001056
1397.04	0.0534046	0.0007447
1397.52	0.0522715	0.0006146
1398	0.0792477	0.0011393
1398.49	0.065836	0.0009404
1398.97	0.0698467	0.0004626
1399.45	0.101293	0.001962
1399.93	0.0605515	0.0008599


MS07AV5
Absorbance
1.3
1.1
0.9
0.7
0.5
0.3
0.1
-0.1
700
800
900
1000
1100
1200
1300
1400
Wavenumber (cm-1)
MS07AD5
Absorbance
0.018
0.016
0.014
0.012
0.010
0.008
0.006
0.004
0.002
0.000
700
800
900
1000
1100
1200
1300
1400
Wavenumber (cm-1)

Methanol 7.66 Mole % 15.7 Torr MS07AV5
MS07AD5

WN (cm-1)	AVE (A.U.)	AD (A.U.)
749.927	-0.0016135	0.0012587
750.409	-0.0036964	0.0010193
750.891	-0.0078394	0.0010033
751.373	-0.0080404	0.0010582
751.856	-0.0019082	0.0010955
752.338	-0.0000563	0.0009554
752.82	-0.0110957	0.0010176
753.302	-0.0109868	0.0009902
753.785	0.002253	0.0010217
754.267	0.0001273	0.0008561
754.749	-0.0159318	0.0011011
755.231	-0.010548	0.0008361
755.714	0.0066939	0.001041
756.196	-0.0026854	0.0010955
756.678	-0.0192793	0.0011293
757.16	-0.0051387	0.0009886
757.643	0.0089679	0.0010066
758.125	-0.0074697	0.0011335
758.607	-0.0153463	0.0011018
759.089	0.001469	0.0008589
759.571	0.0037616	0.001231
760.054	-0.0119237	0.0012011
760.536	-0.0085464	0.001004
761.018	0.0020914	0.0007465
761.5	-0.0056954	0.0009948
761.983	-0.0080556	0.0009217
762.465	-0.0022357	0.0010638
762.947	-0.0066334	0.0009705
763.429	-0.0097201	0.0011379
763.912	-0.0007048	0.0009779
764.394	-0.0031929	0.0010084
764.876	-0.014909	0.000895
765.358	-0.0048403	0.0010047
765.841	0.0052678	0.0007725
766.323	-0.011022	0.0010252
766.805	-0.0180246	0.0009681
767.287	0.0041755	0.0008174
767.77	0.0062089	0.0009931
768.252	-0.0198575	0.0010142
768.734	-0.0135661	0.0007952
769.216	0.0109403	0.0009425
769.698	-0.0024438	0.0010563
770.181	-0.0227039	0.0009593
770.663	-0.0016272	0.0008528
771.145	0.0104369	0.0009644

WN (cm-1)	AVE (A.U.)	AD (A.U.)
771.627	-0.012894	0.0011639
772.11	-0.0148647	0.0008171
772.592	0.0050476	0.0008693
773.074	-0.0019083	0.0010176
773.556	-0.0143853	0.000932
774.039	-0.0035032	0.0008394
774.521	0.0001544	0.0008714
775.003	-0.0129409	0.0010677
775.485	-0.0060523	0.0008462
775.968	0.0031917	0.0008706
776.45	-0.0120962	0.0009961
776.932	-0.0120312	0.000805
777.414	0.0105345	0.0008586
777.897	0.0006896	0.0008579
778.379	-0.0220241	0.0008477
778.861	0.0000969	0.0007729
779.343	0.0167336	0.0011294
779.825	-0.0127555	0.0011917
780.308	-0.0189023	0.0008987
780.79	0.0144416	0.0007378
781.272	0.0073972	0.0010741
781.754	-0.0256463	0.0009983
782.237	-0.0087389	0.0009343
782.719	0.016298	0.0009076
783.201	-0.0092212	0.0012275
783.683	-0.0220642	0.0009674
784.166	0.0042428	0.0006671
784.648	0.0053614	0.0008982
785.13	-0.0183652	0.001009
785.612	-0.0072414	0.0007423
786.095	0.0068582	0.0011499
786.577	-0.0118018	0.0009812
787.059	-0.0123204	0.0009509
787.541	0.0060102	0.0006391
788.024	-0.0062136	0.0010027
788.506	-0.0189343	0.0008052
788.988	0.0031203	0.0008706
789.47	0.0059571	0.0009238
789.952	-0.0219632	0.0010026
790.435	-0.0096966	0.0007816
790.917	0.0172267	0.0009751
791.399	-0.0085902	0.0012719
791.881	-0.0270051	0.0010451
792.364	0.0078049	0.0008392
792.846	0.0143756	0.0009488

Methanol 7.66 Mole % 15.7 Torr MS07AV5
MS07AD5

WN (cm-1)	AVE (A.U.)	AD (A.U.)	WN (cm-1)	AVE (A.U.)	AD (A.U.)
793.328	-0.0243252	0.0011104	815.029	-0.0295349	0.0010498
793.81	-0.0156379	0.0010127	815.511	-0.0016208	0.0009219
794.293	0.0201688	0.0007446	815.993	0.0241112	0.0009515
794.775	-0.0018468	0.001348	816.476	-0.015954	0.00116
795.257	-0.0258482	0.0008665	816.958	-0.0253725	0.000705
795.739	0.0032681	0.0008274	817.44	0.0202168	0.0008506
796.222	0.0136302	0.0009004	817.922	0.0103515	0.001169
796.704	-0.0177093	0.0011951	818.405	-0.0302659	0.0009529
797.186	-0.0121298	0.0008758	818.887	-0.0046213	0.0008886
797.668	0.0109002	0.000996	819.369	0.0243208	0.0011119
798.151	-0.0060049	0.0011282	819.851	-0.0119745	0.0010934
798.633	-0.0169355	0.0008588	820.334	-0.0211147	0.0008131
799.115	0.0060504	0.000785	820.816	0.0154328	0.0007676
799.597	0.0021447	0.0008835	821.298	0.0058791	0.000902
800.08	-0.0190165	0.0010587	821.78	-0.0233272	0.0009112
800.562	-0.0007471	0.0009178	822.262	-0.0007307	0.0008709
801.044	0.0121776	0.0008269	822.745	0.0120656	0.0009723
801.526	-0.0166855	0.001066	823.227	-0.0174154	0.0009808
802.008	-0.0161763	0.0009372	823.709	-0.0117534	0.0007517
802.491	0.0177518	0.0008558	824.191	0.0151944	0.0009504
802.973	-0.0002141	0.0011134	824.674	-0.0071574	0.0009927
803.455	-0.0296294	0.0009003	825.156	-0.0220906	0.000902
803.937	0.0029845	0.0008933	825.638	0.0127185	0.0008787
804.42	0.0215505	0.0011168	826.12	0.0089719	0.0011518
804.902	-0.0205776	0.0011094	826.603	-0.0272915	0.0009099
805.384	-0.0213256	0.0010137	827.085	-0.0039594	0.0007935
805.866	0.0216617	0.0008979	827.567	0.0256435	0.000967
806.349	0.0061063	0.0012583	828.049	-0.0129346	0.0009893
806.831	-0.0283117	0.0009085	828.532	-0.0269033	0.0008219
807.313	-0.0003663	0.0008387	829.014	0.0192439	0.0009723
807.795	0.0198682	0.0009789	829.496	0.012388	0.0012244
808.278	-0.015931	0.0011801	829.978	-0.0306397	0.0009582
808.76	-0.0187374	0.0008743	830.461	-0.0062406	0.0009511
809.242	0.0135032	0.0009071	830.943	0.0245592	0.0010129
809.724	-0.0005713	0.0010323	831.425	-0.0115096	0.0010435
810.206	-0.0226526	0.0010387	831.907	-0.0249477	0.0009003
810.689	0.002117	0.000936	832.39	0.0136959	0.0009375
811.171	0.0078829	0.0010966	832.872	0.0075127	0.001102
811.653	-0.0200636	0.0011573	833.354	-0.0248215	0.0008759
812.135	-0.0067132	0.000788	833.836	-0.0036401	0.0010212
812.618	0.0145153	0.0009964	834.318	0.0141987	0.0010372
813.1	-0.0132744	0.0009221	834.801	-0.0153514	0.0010849
813.582	-0.0207731	0.0008827	835.283	-0.0138673	0.0008144
814.064	0.0153547	0.0008603	835.765	0.0144986	0.0009844
814.547	0.0055477	0.0009661	836.247	-0.0049712	0.0010697

Methanol 7.66 Mole % 15.7 Torr MS07AV5
MS07AD5

WN (cm-1)	AVE (A.U.)	AD (A.U.)
836.73	-0.0218915	0.0010536
837.212	0.0108123	0.0009108
837.694	0.0097206	0.0010781
838.176	-0.0255596	0.0009896
838.659	-0.0054378	0.0008717
839.141	0.0234544	0.0010124
839.623	-0.0122201	0.0010952
840.105	-0.0253599	0.0008995
840.588	0.0191667	0.0009885
841.07	0.0121794	0.0011921
841.552	-0.0302529	0.0009907
842.034	-0.0059127	0.0008633
842.516	0.0246309	0.0010994
842.999	-0.0124299	0.0010855
843.481	-0.0262982	0.0010211
843.963	0.014314	0.0009042
844.445	0.0081814	0.0012221
844.928	-0.0249129	0.0009535
845.41	-0.0033598	0.0010924
845.892	0.0155231	0.0009358
846.374	-0.0137746	0.0010221
846.857	-0.0145009	0.0009204
847.339	0.0131875	0.00113
847.821	-0.0032816	0.0011484
848.303	-0.0202078	0.0010314
848.786	0.009062	0.0010065
849.268	0.0088133	0.001108
849.75	-0.0228955	0.0009979
850.232	-0.0035854	0.0009592
850.715	0.0211078	0.0011724
851.197	-0.0127643	0.0011387
851.679	-0.022713	0.000939
852.161	0.0188371	0.001204
852.644	0.0086504	0.0011727
853.126	-0.0293626	0.0010827
853.608	-0.0029779	0.0010252
854.09	0.0236406	0.0011148
854.572	-0.0141867	0.0011676
855.055	-0.0249002	0.0010276
855.537	0.0160005	0.0011736
856.019	0.0067203	0.0011056
856.501	-0.0258695	0.000988
856.984	-0.0028068	0.0009676
857.466	0.0148703	0.001117
857.948	-0.0139835	0.0010105

WN (cm-1)	AVE (A.U.)	AD (A.U.)
858.43	-0.0145504	0.0010329
858.913	0.0128419	0.0010977
859.395	-0.0016708	0.0011604
859.877	-0.0173421	0.0009273
860.359	0.0087789	0.0010896
860.842	0.0067768	0.0011021
861.324	-0.0202846	0.0010252
861.806	-0.0013283	0.0010454
862.288	0.0174577	0.0012011
862.771	-0.0134908	0.001041
863.253	-0.0182952	0.0009879
863.735	0.0185794	0.000994
864.217	0.0043783	0.0012828
864.699	-0.027087	0.0010046
865.182	0.0019736	0.000987
865.664	0.0209563	0.0012016
866.146	-0.0161079	0.0010113
866.628	-0.018845	0.0009935
867.111	0.0179579	0.0010648
867.593	0.0038328	0.0011469
868.075	-0.0248967	0.0010254
868.557	0.0000234	0.0010248
869.04	0.0143241	0.0010977
869.522	-0.0143741	0.0010304
870.004	-0.0125334	0.0010117
870.486	0.01188	0.0011395
870.969	-0.0035445	0.0011473
871.451	-0.0153377	0.0009516
871.933	0.0080789	0.0011201
872.415	0.0046939	0.0010506
872.898	-0.0157693	0.0010926
873.38	0.003306	0.0010813
873.862	0.0129756	0.0011632
874.344	-0.0135603	0.0009916
874.827	-0.0102541	0.0009257
875.309	0.0184812	0.0011296
875.791	-0.0008888	0.0011584
876.273	-0.0224934	0.0008753
876.756	0.0075886	0.0010038
877.238	0.0155502	0.0011904
877.72	-0.0186155	0.0011705
878.202	-0.0135345	0.000874
878.684	0.0184023	0.0009718
879.167	-0.0005685	0.001018
879.649	-0.0224627	0.0010706

Methanol 7.66 Mole % 15.7 Torr MS07AV5
MS07AD5

WN (cm-1)	AVE (A.U.)	AD (A.U.)
880.131	0.0041434	0.0009922
880.613	0.0119607	0.0011337
881.096	-0.0152957	0.0010454
881.578	-0.0094931	0.0009716
882.06	0.0105939	0.0009591
882.542	-0.0040938	0.0011414
883.025	-0.0127394	0.0009719
883.507	0.0060668	0.0011194
883.989	0.0007532	0.0009363
884.471	-0.0131571	0.001035
884.954	0.0030318	0.000998
885.436	0.0069437	0.0011915
885.918	-0.0132111	0.0009866
886.4	-0.0042524	0.0010277
886.882	0.0142539	0.0011235
887.365	-0.0062089	0.0010571
887.847	-0.0164996	0.001037
888.329	0.0109319	0.0011479
888.811	0.0083276	0.0012578
889.294	-0.0187932	0.0010464
889.776	-0.0060717	0.0009435
890.258	0.0158236	0.0011495
890.74	-0.0062475	0.0010891
891.223	-0.0188037	0.0009993
891.705	0.0071333	0.0009974
892.187	0.0072966	0.0011231
892.669	-0.0154513	0.0010334
893.152	-0.00611	0.0011332
893.634	0.0089104	0.00115
894.116	-0.0049191	0.0010698
894.598	-0.0097612	0.0010809
895.081	0.0045688	0.0010905
895.563	0.0000211	0.0010986
896.045	-0.0081923	0.0010063
896.527	0.0036169	0.0011316
897.009	0.0029025	0.0012135
897.492	-0.0091019	0.0009696
897.974	0.0015915	0.001054
898.456	0.0088514	0.0012335
898.938	-0.0076181	0.0010531
899.421	-0.0062125	0.0011013
899.903	0.0127076	0.0011242
900.385	0.001351	0.0011304
900.867	-0.0155652	0.0009768
901.35	0.0018327	0.0010858
901.832	0.0111351	0.0012401
902.314	-0.0100295	0.0010568
902.796	-0.0117956	0.0010513
903.279	0.0084987	0.0011354
903.761	0.0016343	0.0011682
904.243	-0.013688	0.0011497
904.725	-0.0021448	0.0010388
905.208	0.006229	0.001191
905.69	-0.0061217	0.0012297
906.172	-0.0070926	0.001253
906.654	0.0025862	0.0011737
907.137	-0.0005089	0.0012052
907.619	-0.004273	0.0011472
908.101	0.0012622	0.0012099
908.583	-0.0012699	0.0011626
909.066	-0.0043997	0.0011137
909.548	0.0034042	0.0012886
910.03	0.0016736	0.0013283
910.512	-0.0080273	0.0010637
910.994	-0.0002023	0.0011959
911.477	0.0075435	0.0012847
911.959	-0.0048846	0.0011898
912.441	-0.0087599	0.0010729
912.923	0.0063701	0.0012263
913.406	0.0039888	0.0012558
913.888	-0.0105834	0.0012355
914.37	-0.0048863	0.0011178
914.852	0.0070536	0.0011896
915.335	-0.0023169	0.001174
915.817	-0.0095897	0.0011673
916.299	0.0008426	0.0012203
916.781	0.0034949	0.0011556
917.263	-0.005075	0.0011945
917.746	-0.0049271	0.0011539
918.228	0.0011216	0.0012189
918.71	0.0003957	0.0011763
919.192	-0.0016025	0.0011492
919.675	-0.0019496	0.001346
920.157	-0.0016904	0.001178
920.639	0.0016704	0.0011605
921.121	0.001402	0.0012538
921.604	-0.0036187	0.0013121
922.086	-0.0027739	0.0010508
922.568	0.0040393	0.0012619
923.05	0.0002276	0.0012793

Methanol 7.66 Mole % 15.7 Torr MS07AV5
MS07AD5

WN (cm-1)	AVE (A.U.)	AD (A.U.)
923.533	-0.0070137	0.0012353
924.015	-0.0008136	0.001127
924.497	0.0046416	0.0014291
924.979	-0.0024807	0.0010733
925.462	-0.0059315	0.0012663
925.944	0.0009333	0.0012461
926.426	0.0026047	0.0012386
926.908	-0.0039786	0.0011722
927.391	-0.0045344	0.0012563
927.873	0.0002226	0.0012004
928.355	0.0002665	0.0012236
928.837	-0.0032111	0.001067
929.319	-0.0039694	0.0012799
929.802	-0.0007921	0.0012495
930.284	0.0019099	0.0011425
930.766	-0.0015407	0.0013054
931.248	-0.005076	0.0013067
931.731	0.0011074	0.0011168
932.213	0.005336	0.0012061
932.695	-0.0024857	0.0012586
933.177	-0.0046256	0.0010772
933.66	0.0047823	0.0011453
934.142	0.0042519	0.0012441
934.624	-0.0058946	0.0012281
935.106	-0.0027557	0.0010633
935.589	0.005532	0.0011337
936.071	-0.0005338	0.0012188
936.553	-0.0059186	0.001171
937.035	0.0002545	0.0010713
937.518	0.0021958	0.001259
938	-0.002615	0.0011945
938.482	-0.0019034	0.0009968
938.964	0.0004374	0.0011639
939.447	-0.0004559	0.0011388
939.929	0.0002256	0.0011119
940.411	0.0000937	0.0010426
940.893	-0.0042681	0.0011134
941.375	0.0005186	0.0011432
941.858	0.0050949	0.0010315
942.34	-0.0039251	0.0011808
942.822	-0.0060564	0.0010994
943.304	0.0059958	0.0009923
943.787	0.0056288	0.0010486
944.269	-0.0083511	0.0011349
944.751	-0.0018551	0.0009832

WN (cm-1)	AVE (A.U.)	AD (A.U.)
945.233	0.0103811	0.0010429
945.716	-0.0017988	0.0011316
946.198	-0.0082055	0.0010449
946.68	0.006197	0.0010424
947.162	0.0076886	0.0011552
947.645	-0.0070009	0.0010822
948.127	-0.0020501	0.0010206
948.609	0.0082362	0.0010043
949.091	-0.0013485	0.0011745
949.573	-0.0042692	0.0010742
950.056	0.0036947	0.0009925
950.538	0.0015363	0.0010629
951.02	-0.0015241	0.0010923
951.502	0.004945	0.000884
951.985	0.0021385	0.001179
952.467	-0.0050214	0.0010692
952.949	0.0042134	0.001033
953.431	0.0101702	0.000994
953.914	-0.0043925	0.0012109
954.396	-0.0016933	0.0010102
954.878	0.0137517	0.001014
955.36	0.0049865	0.0009805
955.843	-0.0060941	0.0010876
956.325	0.0087923	0.0009739
956.807	0.0144689	0.0012112
957.289	-0.0060102	0.0011601
957.772	0.0009128	0.0011309
958.254	0.0189087	0.0010288
958.736	0.0063625	0.0011977
959.218	-0.0046339	0.0011209
959.7	0.0127543	0.0010185
960.183	0.0177934	0.0011448
960.665	0.0006873	0.0012467
961.147	0.0052342	0.0010627
961.629	0.0161014	0.0011525
962.112	0.0059836	0.0011327
962.594	0.0072799	0.0011264
963.076	0.0171398	0.001011
963.558	0.008717	0.001181
964.041	0.0030061	0.00117
964.523	0.0197305	0.0011006
965.005	0.0200446	0.0011837
965.487	0.0027895	0.0012407
965.97	0.0127468	0.0010868
966.452	0.0274187	0.0013239

Methanol 7.66 Mole % 15.7 Torr MS07AV5 MS07AD5

WN (cm-1)	AVE (A.U.)	AD (A.U.)
966.934	0.0143624	0.0012894
967.416	0.0107097	0.0011923
967.899	0.0314116	0.001068
968.381	0.0248263	0.0013638
968.863	0.0105847	0.0012449
969.345	0.0315152	0.0012311
969.828	0.040079	0.0011559
970.31	0.0097484	0.0014313
970.792	0.0156761	0.0012686
971.274	0.0474671	0.0013495
971.757	0.0377881	0.0013867
972.239	0.0135386	0.0013225
972.721	0.0297284	0.0012342
973.203	0.0461551	0.0014106
973.685	0.0378906	0.0014315
974.168	0.0350943	0.0012808
974.65	0.0381392	0.001375
975.132	0.0341433	0.0015226
975.614	0.0463906	0.0014518
976.097	0.0648725	0.0014478
976.579	0.0383892	0.001351
977.061	0.0294488	0.0014101
977.543	0.0655629	0.0013964
978.026	0.0824293	0.0016098
978.508	0.0416716	0.0014669
978.99	0.0427815	0.0014278
979.472	0.0814806	0.0015917
979.955	0.0823258	0.0017109
980.437	0.0664649	0.0014106
980.919	0.0642712	0.0013879
981.401	0.0781545	0.0016328
981.884	0.0771875	0.0017604
982.366	0.101529	0.0015751
982.848	0.0853803	0.0014697
983.33	0.0675872	0.001756
983.812	0.0881056	0.001543
984.295	0.131686	0.0016223
984.777	0.0999742	0.0015911
985.259	0.0643381	0.0016508
985.741	0.110136	0.0017154
986.224	0.145139	0.0017505
986.706	0.119932	0.0017393
987.188	0.0823001	0.0016537
987.67	0.130265	0.0017721
988.153	0.144473	0.0018543
988.635	0.150674	0.0016643
989.117	0.115337	0.0016039
989.599	0.133756	0.0017517
990.082	0.148366	0.0019558
990.564	0.191964	0.001922
991.046	0.148953	0.0016784
991.528	0.127507	0.0018384
992.01	0.171522	0.0018915
992.493	0.227121	0.0018992
992.975	0.175598	0.0018545
993.457	0.133605	0.0018143
993.939	0.204485	0.0020581
994.422	0.240549	0.0021328
994.904	0.206226	0.0018514
995.386	0.159179	0.0016945
995.868	0.222149	0.0022562
996.351	0.241005	0.0020997
996.833	0.250535	0.0024523
997.315	0.190795	0.0016864
997.797	0.218397	0.0021943
998.28	0.256979	0.001981
998.762	0.306358	0.0025288
999.244	0.211314	0.001686
999.726	0.212202	0.0020886
1000.2	0.295504	0.0020799
1000.69	0.352429	0.0024785
1001.17	0.217667	0.0016629
1001.65	0.227403	0.0021176
1002.13	0.339435	0.0019007
1002.62	0.37173	0.0021124
1003.1	0.223475	0.0020603
1003.58	0.269118	0.0021864
1004.06	0.370563	0.002339
1004.54	0.373639	0.0023298
1005.03	0.242033	0.0023987
1005.51	0.302975	0.0022666
1005.99	0.370167	0.0021511
1006.47	0.383303	0.002855
1006.96	0.26939	0.0027154
1007.44	0.325705	0.0025186
1007.92	0.371548	0.0023157
1008.4	0.400154	0.0035046
1008.88	0.272866	0.0022394
1009.37	0.3396	0.0023994
1009.85	0.393717	0.0019377

Methanol 7.66 Mole % 15.7 Torr MS07AV5
MS07AD5

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1010.33	0.404724	0.003496
1010.81	0.259672	0.0016565
1011.3	0.356057	0.0022899
1011.78	0.437957	0.0021604
1012.26	0.382684	0.0033941
1012.74	0.25612	0.0016448
1013.22	0.375172	0.0019923
1013.71	0.457006	0.0020221
1014.19	0.329003	0.0027171
1014.67	0.282632	0.0019958
1015.15	0.400193	0.0019832
1015.64	0.439301	0.0019522
1016.12	0.271099	0.0025851
1016.6	0.337924	0.0017008
1017.08	0.4104	0.0018197
1017.56	0.385345	0.0022955
1018.05	0.24653	0.0022401
1018.53	0.369767	0.0020071
1019.01	0.376379	0.0020191
1019.49	0.298961	0.0028569
1019.98	0.25439	0.001426
1020.46	0.343003	0.0014247
1020.94	0.335759	0.001678
1021.42	0.228678	0.002405
1021.9	0.285115	0.0015321
1022.39	0.287105	0.0012087
1022.87	0.258145	0.0022116
1023.35	0.191566	0.0010126
1023.83	0.251678	0.0011497
1024.32	0.246532	0.0011021
1024.8	0.213042	0.0018923
1025.28	0.200359	0.0010251
1025.76	0.199186	0.0008668
1026.25	0.203218	0.0014831
1026.73	0.170449	0.0006369
1027.21	0.203116	0.0004766
1027.69	0.189439	0.0015643
1028.17	0.18089	0.00149
1028.66	0.180199	0.0004605
1029.14	0.183463	0.0008092
1029.62	0.207849	0.0008795
1030.1	0.241307	0.0017515
1030.58	0.28366	0.0024435
1031.07	0.34601	0.0032824
1031.55	0.472701	0.0049331

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1032.03	0.592225	0.0083617
1032.51	0.785342	0.0108502
1033	1.09469	0.0135955
1033.48	1.21599	0.0063017
1033.96	0.917513	0.0175904
1034.44	0.504885	0.0128395
1034.92	0.219056	0.0052208
1035.41	0.157554	0.0017522
1035.89	0.157855	0.001063
1036.37	0.173386	0.0011647
1036.85	0.143981	0.0012511
1037.34	0.125656	0.0010063
1037.82	0.13796	0.0009878
1038.3	0.15445	0.0012116
1038.78	0.145057	0.0008006
1039.26	0.135228	0.0008163
1039.75	0.165035	0.0009877
1040.23	0.176915	0.0005151
1040.71	0.176988	0.001121
1041.19	0.201002	0.00057
1041.67	0.237979	0.0005161
1042.16	0.225891	0.0006824
1042.64	0.214142	0.0004987
1043.12	0.292816	0.0005331
1043.6	0.289409	0.0006732
1044.09	0.240971	0.0010255
1044.57	0.335627	0.0007655
1045.05	0.35175	0.0009275
1045.53	0.281088	0.0011098
1046.01	0.374211	0.00072
1046.5	0.417852	0.0008747
1046.98	0.33318	0.0014364
1047.46	0.407458	0.0009404
1047.94	0.46068	0.0011385
1048.43	0.37385	0.0016465
1048.91	0.436266	0.001094
1049.39	0.508957	0.0012002
1049.87	0.41073	0.0016692
1050.35	0.461494	0.001661
1050.84	0.550359	0.0012513
1051.32	0.44344	0.001731
1051.8	0.476791	0.0014188
1052.28	0.575597	0.0014493
1052.77	0.467473	0.0015318
1053.25	0.49143	0.0013804

Methanol 7.66 Mole % 15.7 Torr MS07AV5 MS07AD5

WN (cm-1)	AVE (A.U.)	AD (A.U.)	WN (cm-1)	AVE (A.U.)	AD (A.U.)
1053.73	0.582402	0.0019879	1075.43	0.123321	0.0003936
1054.21	0.47925	0.0018004	1075.91	0.0821063	0.0005143
1054.69	0.509871	0.0018345	1076.39	0.0927176	0.0008853
1055.18	0.563888	0.0029119	1076.87	0.0865841	0.0005237
1055.66	0.487565	0.0019028	1077.36	0.0833204	0.0003965
1056.14	0.528764	0.0019234	1077.84	0.0569422	0.0006722
1056.62	0.528923	0.0027358	1078.32	0.0711613	0.0005278
1057.1	0.492747	0.0019673	1078.8	0.0662009	0.0004326
1057.59	0.543319	0.0015413	1079.28	0.0495589	0.0002708
1058.07	0.485277	0.00238	1079.77	0.0447402	0.0005186
1058.55	0.482809	0.002249	1080.25	0.0590703	0.0002269
1059.03	0.540391	0.001545	1080.73	0.043708	0.0003945
1059.52	0.464742	0.0015965	1081.21	0.030975	0.0004545
1060	0.462255	0.0018742	1081.7	0.0408845	0.0002517
1060.48	0.493166	0.0027884	1082.18	0.0395659	0.0002666
1060.96	0.466951	0.0017418	1082.66	0.0248514	0.0002371
1061.44	0.457013	0.0014555	1083.14	0.0267838	0.0002319
1061.93	0.421139	0.0022529	1083.62	0.0307546	0.0003096
1062.41	0.428801	0.0018543	1084.11	0.0231627	0.0002278
1062.89	0.43623	0.0020512	1084.59	0.0206273	0.0002533
1063.37	0.397445	0.0018199	1085.07	0.0242364	0.0004097
1063.86	0.396015	0.0013987	1085.55	0.0210295	0.0002542
1064.34	0.376462	0.0016886	1086.04	0.0156727	0.0002816
1064.82	0.36279	0.0019459	1086.52	0.0209279	0.0004116
1065.3	0.368168	0.0019273	1087	0.0190056	0.0004359
1065.78	0.340619	0.0010474	1087.48	0.0109971	0.0003624
1066.27	0.310451	0.0014976	1087.96	0.0165778	0.0001494
1066.75	0.298071	0.0020673	1088.45	0.0208934	0.0007189
1067.23	0.32247	0.001387	1088.93	0.0111891	0.0002574
1067.71	0.295875	0.0010209	1089.41	0.0103385	0.0003718
1068.19	0.25456	0.0013859	1089.89	0.0207761	0.0004464
1068.68	0.271686	0.0012652	1090.37	0.0145162	0.0005568
1069.16	0.248261	0.0011765	1090.86	0.0054131	0.0003155
1069.64	0.223947	0.001239	1091.34	0.0152686	0.0003681
1070.12	0.228841	0.0013903	1091.82	0.0204864	0.000645
1070.61	0.21312	0.0010205	1092.3	0.00969	0.0002507
1071.09	0.202737	0.0008209	1092.79	0.0098285	0.0002054
1071.57	0.176841	0.0012012	1093.27	0.0224016	0.0005972
1072.05	0.181732	0.0006702	1093.75	0.0175914	0.0004184
1072.53	0.16776	0.0007945	1094.23	0.0093525	0.0002781
1073.02	0.151013	0.000881	1094.71	0.0137537	0.0004341
1073.5	0.154214	0.0009755	1095.2	0.0160196	0.0004912
1073.98	0.137941	0.0006	1095.68	0.008997	0.0003104
1074.46	0.128856	0.0011276	1096.16	0.0091146	0.000425
1074.95	0.107284	0.0007728	1096.64	0.0137223	0.0005825

Methanol 7.66 Mole % 15.7 Torr MS07AV5 MS07AD5

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1097.13	0.0127551	0.0003001
1097.61	0.0124611	0.0003877
1098.09	0.011277	0.0007394
1098.57	0.0089705	0.0004263
1099.05	0.0107533	0.0005774
1099.54	0.0123972	0.0006959
1100.02	0.0087728	0.0007452
1100.5	0.0076696	0.0005121
1100.98	0.012155	0.0005207
1101.46	0.012547	0.0008311
1101.95	0.0056375	0.0005445
1102.43	0.0083197	0.0005617
1102.91	0.0142861	0.0008892
1103.39	0.0088739	0.0007117
1103.88	0.0050174	0.0006059
1104.36	0.0105739	0.000745
1104.84	0.0124936	0.0007091
1105.32	0.0070673	0.000736
1105.8	0.0072122	0.0007725
1106.29	0.0133779	0.0009115
1106.77	0.0115544	0.0008154
1107.25	0.0066105	0.0007675
1107.73	0.0071549	0.000768
1108.22	0.010476	0.0007863
1108.7	0.0110845	0.0008061
1109.18	0.0065413	0.0008938
1109.66	0.0062822	0.000953
1110.14	0.0097051	0.0008853
1110.63	0.0096684	0.000823
1111.11	0.0068892	0.0010601
1111.59	0.008134	0.0009222
1112.07	0.011696	0.0009826
1112.56	0.0092104	0.0010042
1113.04	0.0058658	0.001116
1113.52	0.0095627	0.0009934
1114	0.0144808	0.001072
1114.48	0.0121655	0.0011336
1114.97	0.0077366	0.000937
1115.45	0.0095453	0.0009919
1115.93	0.0092581	0.0011531
1116.41	0.0067363	0.0011143
1116.89	0.0056438	0.0010561
1117.38	0.0057281	0.0012621
1117.86	0.0081492	0.0012297
1118.34	0.0070788	0.0010439

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1118.82	0.0030136	0.0011527
1119.31	0.0055811	0.0011821
1119.79	0.0092909	0.0011701
1120.27	0.0056125	0.0011999
1120.75	0.0034265	0.0013219
1121.23	0.0079239	0.00117
1121.72	0.0094959	0.0012362
1122.2	0.0041144	0.0012668
1122.68	0.0031136	0.0012257
1123.16	0.0100462	0.0011312
1123.65	0.0088899	0.0013183
1124.13	0.0027859	0.001231
1124.61	0.0062623	0.0013485
1125.09	0.0091574	0.0012258
1125.57	0.0046283	0.0013054
1126.06	0.0023205	0.0011533
1126.54	0.0067221	0.0011887
1127.02	0.0065962	0.0012304
1127.5	0.0035734	0.0013243
1127.98	0.0043665	0.0012163
1128.47	0.005043	0.0013538
1128.95	0.0047358	0.0012319
1129.43	0.006842	0.0012594
1129.91	0.0037591	0.0010642
1130.4	0.0021744	0.0012814
1130.88	0.0059158	0.0012237
1131.36	0.0067684	0.001201
1131.84	0.0014468	0.0010859
1132.32	0.0017007	0.0012626
1132.81	0.0084934	0.0011271
1133.29	0.0048281	0.0013049
1133.77	-0.0015454	0.0012191
1134.25	0.0067138	0.0011361
1134.74	0.0115657	0.0011484
1135.22	0.0036541	0.0012367
1135.7	0.0034511	0.0011011
1136.18	0.0129632	0.0010431
1136.66	0.0067604	0.00106
1137.15	-0.0004235	0.0011419
1137.63	0.0059088	0.0010081
1138.11	0.0089112	0.0010652
1138.59	0.0020483	0.0010893
1139.07	0.0015775	0.0011562
1139.56	0.0062206	0.0010405
1140.04	0.0048676	0.0011317

Methanol 7.66 Mole % 15.7 Torr MS07AV5 MS07AD5

WN (cm-1)	AVE (A.U.)	AD (A.U.)	WN (cm-1)	AVE (A.U.)	AD (A.U.)
1140.52	0.002201	0.0010571	1162.22	0.0123978	0.0006895
1141	0.0072881	0.001059	1162.7	0.0000664	0.0009438
1141.49	0.0090158	0.0010225	1163.18	-0.0024036	0.0007453
1141.97	0.0027052	0.0009942	1163.67	0.0097144	0.0007591
1142.45	0.0064325	0.0009617	1164.15	0.0065313	0.0008121
1142.93	0.0049842	0.0010991	1164.63	-0.0010013	0.0009016
1143.41	-0.0006502	0.0010141	1165.11	0.006639	0.0006993
1143.9	0.0055059	0.0009553	1165.59	0.007295	0.0007797
1144.38	0.0096899	0.0009071	1166.08	-0.0026311	0.0007578
1144.86	-0.0000306	0.0010746	1166.56	0.0030983	0.0007232
1145.34	-0.0004179	0.0009103	1167.04	0.0080078	0.0006336
1145.83	0.0104033	0.0008848	1167.52	-0.0024802	0.0008154
1146.31	0.0043078	0.0009819	1168.01	-0.0006248	0.0007156
1146.79	-0.005016	0.0009357	1168.49	0.0105633	0.0007887
1147.27	0.00646	0.0008774	1168.97	0.0010879	0.0008564
1147.75	0.0110766	0.0009434	1169.45	-0.0061082	0.0008535
1148.24	-0.0021593	0.0010361	1169.93	0.0092395	0.0007011
1148.72	-0.000355	0.0009039	1170.42	0.009023	0.0008939
1149.2	0.0119426	0.0008318	1170.9	-0.0076014	0.0008
1149.68	0.0038961	0.0009592	1171.38	0.0014776	0.0007745
1150.16	-0.0040863	0.0008671	1171.86	0.0140938	0.0007241
1150.65	0.0059859	0.00081	1172.35	-0.0018933	0.0010562
1151.13	0.0066248	0.0008796	1172.83	-0.0052568	0.0006886
1151.61	-0.0021786	0.0009464	1173.31	0.0123816	0.0007337
1152.09	0.0027987	0.0007987	1173.79	0.0079329	0.0009374
1152.58	0.0080142	0.0007894	1174.27	-0.0062235	0.000917
1153.06	0.0000216	0.000881	1174.76	0.0069716	0.0007112
1153.54	0.0004221	0.0008016	1175.24	0.0125904	0.0008892
1154.02	0.0077212	0.0008655	1175.72	-0.0024179	0.0009061
1154.5	0.0005231	0.0007997	1176.2	0.0004277	0.0008582
1154.99	-0.0024963	0.0007809	1176.68	0.0121351	0.0007736
1155.47	0.0074705	0.0007481	1177.17	0.0028463	0.000872
1155.95	0.0037503	0.000802	1177.65	-0.0022688	0.0008044
1156.43	-0.0048582	0.0008248	1178.13	0.0100176	0.0008776
1156.92	0.0066815	0.0007645	1178.61	0.0062242	0.0009073
1157.4	0.0108767	0.0007854	1179.1	-0.004052	0.0009363
1157.88	-0.0043635	0.0008253	1179.58	0.0083862	0.0008894
1158.36	-0.0009008	0.0007593	1180.06	0.0110796	0.0008745
1158.84	0.0133885	0.0006979	1180.54	-0.0037448	0.0009117
1159.33	0.0022815	0.0008927	1181.02	0.0030168	0.0008819
1159.81	-0.0058932	0.000775	1181.51	0.0149557	0.0009193
1160.29	0.00985	0.0006743	1181.99	0.0013293	0.001034
1160.77	0.010054	0.0008379	1182.47	-0.0028254	0.0009217
1161.26	-0.0049572	0.000855	1182.95	0.015603	0.0008798
1161.74	0.001392	0.0005691	1183.44	0.0099941	0.001033

Methanol 7.66 Mole % 15.7 Torr MS07AV5
MS07AD5

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1183.92	-0.0049413	0.0009885
1184.4	0.0088765	0.0008592
1184.88	0.0165743	0.0009846
1185.36	-0.0009953	0.0010304
1185.85	0.0003798	0.0009702
1186.33	0.0173026	0.0009372
1186.81	0.0079332	0.0011326
1187.29	-0.0014674	0.0009676
1187.77	0.0125815	0.0008701
1188.26	0.0126739	0.0010886
1188.74	-0.0001506	0.0010257
1189.22	0.0070355	0.0009093
1189.7	0.0148503	0.0010077
1190.19	0.0025498	0.0010567
1190.67	0.0038311	0.0010284
1191.15	0.0153763	0.0010095
1191.63	0.0060593	0.0010391
1192.11	0.0013506	0.0010097
1192.6	0.0155579	0.0009586
1193.08	0.0116197	0.0010501
1193.56	-0.0015909	0.0010836
1194.04	0.0113135	0.0009846
1194.53	0.0187042	0.0011148
1195.01	0.0013598	0.0011327
1195.49	0.0057547	0.0009925
1195.97	0.0220131	0.0011098
1196.45	0.0087561	0.0012105
1196.94	0.0001695	0.0010611
1197.42	0.0176825	0.0009992
1197.9	0.0191392	0.0010368
1198.38	0.000704	0.0010466
1198.86	0.0099471	0.0009397
1199.35	0.0212528	0.001148
1199.83	0.0071546	0.0011613
1200.31	0.0045369	0.0009789
1200.79	0.0195282	0.0010349
1201.28	0.0141975	0.0011505
1201.76	0.0042857	0.0010809
1202.24	0.0191999	0.0009593
1202.72	0.0190342	0.0011068
1203.2	0.0046702	0.0009915
1203.69	0.0126272	0.0010037
1204.17	0.0215496	0.0009898
1204.65	0.0069126	0.0010794
1205.13	0.0078449	0.0009697

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1205.62	0.0233765	0.0009784
1206.1	0.0127042	0.0009916
1206.58	0.0032168	0.001073
1207.06	0.0201957	0.0009458
1207.54	0.0232122	0.0010558
1208.03	0.004794	0.0009577
1208.51	0.0136357	0.0010154
1208.99	0.0281454	0.0009218
1209.47	0.0102705	0.0010445
1209.95	0.0051987	0.0008541
1210.44	0.0222741	0.0011003
1210.92	0.0196592	0.0010388
1211.4	0.0067229	0.0010357
1211.88	0.0192516	0.0009281
1212.37	0.0263627	0.0010392
1212.85	0.0125407	0.0009823
1213.33	0.0141565	0.0009163
1213.81	0.0259326	0.0009305
1214.29	0.0176886	0.001002
1214.78	0.0127704	0.0008926
1215.26	0.0218908	0.000919
1215.74	0.0160997	0.0009178
1216.22	0.0073772	0.0008817
1216.71	0.0186945	0.0008385
1217.19	0.0197805	0.0011471
1217.67	0.0063307	0.0009131
1218.15	0.0145544	0.0009358
1218.63	0.0247846	0.0009322
1219.12	0.0094742	0.0010414
1219.6	0.0072879	0.0008352
1220.08	0.0246981	0.0008918
1220.56	0.0183942	0.0010483
1221.05	0.0033754	0.0009138
1221.53	0.0186907	0.0008383
1222.01	0.0235922	0.0010081
1222.49	0.0081998	0.0008783
1222.97	0.0114614	0.0008121
1223.46	0.0244357	0.0007879
1223.94	0.0154161	0.0009788
1224.42	0.0098538	0.0008468
1224.9	0.024916	0.0008661
1225.38	0.0247482	0.0009709
1225.87	0.0106079	0.0007912
1226.35	0.0175635	0.0007195
1226.83	0.0215712	0.0008717

Methanol 7.66 Mole % 15.7 Torr MS07AV5
MS07AD5

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1227.31	0.0120174	0.0006935
1227.8	0.014894	0.0007401
1228.28	0.026122	0.0008448
1228.76	0.0138091	0.0007904
1229.24	0.0082138	0.0007659
1229.72	0.0215283	0.000771
1230.21	0.0142584	0.0009891
1230.69	0.0044477	0.0007729
1231.17	0.0164421	0.000714
1231.65	0.0213538	0.0010524
1232.14	0.0088558	0.0008244
1232.62	0.0156906	0.0007813
1233.1	0.027766	0.0007935
1233.58	0.0173749	0.0009714
1234.06	0.0090532	0.0007178
1234.55	0.0194036	0.0007043
1235.03	0.0199233	0.0009173
1235.51	0.0053505	0.000706
1235.99	0.0122941	0.0006991
1236.47	0.0222542	0.0008538
1236.96	0.0131708	0.0008445
1237.44	0.0103444	0.0006919
1237.92	0.0219173	0.0008166
1238.4	0.0189673	0.0008702
1238.89	0.016932	0.0007491
1239.37	0.0244483	0.0007522
1239.85	0.0242621	0.0008529
1240.33	0.0136847	0.0006353
1240.81	0.0207217	0.0008049
1241.3	0.0228394	0.0008587
1241.78	0.0106043	0.0007566
1242.26	0.0146422	0.0006724
1242.74	0.026647	0.0009239
1243.23	0.0153285	0.0008781
1243.71	0.0096278	0.0008595
1244.19	0.0246865	0.0007351
1244.67	0.0213507	0.0008281
1245.15	0.0076351	0.0006685
1245.64	0.0163221	0.0006987
1246.12	0.0249575	0.0008905
1246.6	0.0119911	0.0007869
1247.08	0.0112401	0.0007436
1247.56	0.0239551	0.0009012
1248.05	0.0196363	0.000798
1248.53	0.0127036	0.0007125

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1249.01	0.02336	0.0006473
1249.49	0.0241472	0.0008168
1249.98	0.0152929	0.0006684
1250.46	0.0186999	0.0007386
1250.94	0.0235496	0.0007979
1251.42	0.0154558	0.0008606
1251.9	0.0169799	0.0006394
1252.39	0.0236362	0.0008469
1252.87	0.017391	0.0007287
1253.35	0.0152988	0.0006878
1253.83	0.0250421	0.0008145
1254.32	0.0212821	0.0010288
1254.8	0.0132992	0.0007855
1255.28	0.0223124	0.0007564
1255.76	0.0263071	0.0009479
1256.24	0.0164513	0.0008564
1256.73	0.01872	0.0007132
1257.21	0.0282844	0.0008995
1257.69	0.0212843	0.0009214
1258.17	0.0160109	0.0008937
1258.65	0.0247654	0.0008121
1259.14	0.0246643	0.0009839
1259.62	0.0152993	0.0006669
1260.1	0.0214084	0.000806
1260.58	0.0289596	0.0007303
1261.07	0.0178601	0.0009348
1261.55	0.0180496	0.000766
1262.03	0.0244009	0.0008247
1262.51	0.0208762	0.0007902
1262.99	0.0190979	0.0007805
1263.48	0.0212167	0.0008271
1263.96	0.0216956	0.0007362
1264.44	0.0179242	0.0007381
1264.92	0.0211549	0.0008554
1265.41	0.0231323	0.0009287
1265.89	0.0176665	0.0007914
1266.37	0.0191736	0.0007571
1266.85	0.0254892	0.0008783
1267.33	0.0192094	0.0008453
1267.82	0.0171872	0.0006962
1268.3	0.0252313	0.0008281
1268.78	0.0237003	0.0008877
1269.26	0.0176476	0.000747
1269.74	0.0219397	0.0007825
1270.23	0.0268951	0.0008429

Methanol 7.66 Mole % 15.7 Torr MS07AV5
MS07AD5

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1270.71	0.0194303	0.0007077
1271.19	0.0170952	0.0006725
1271.67	0.0253632	0.0007599
1272.16	0.0246279	0.0008373
1272.64	0.0169723	0.0007475
1273.12	0.0196209	0.0008739
1273.6	0.0226907	0.0008987
1274.08	0.0179285	0.0006542
1274.57	0.0187468	0.0006927
1275.05	0.0213243	0.0007885
1275.53	0.0183526	0.0007414
1276.01	0.0193696	0.0008832
1276.5	0.0214092	0.0008659
1276.98	0.0190042	0.0009228
1277.46	0.0183232	0.0006893
1277.94	0.0217918	0.0007717
1278.42	0.0199531	0.0008398
1278.91	0.0169652	0.0006127
1279.39	0.0222515	0.0006952
1279.87	0.0229679	0.0010564
1280.35	0.0188156	0.0007469
1280.84	0.019506	0.0007361
1281.32	0.0227475	0.000749
1281.8	0.0214181	0.0008468
1282.28	0.0180068	0.0007047
1282.76	0.0216175	0.0006918
1283.25	0.0234779	0.0010034
1283.73	0.0218621	0.0006886
1284.21	0.0218573	0.0007083
1284.69	0.0224573	0.0008794
1285.17	0.0222042	0.0006188
1285.66	0.0208074	0.0006464
1286.14	0.020313	0.0007318
1286.62	0.0218317	0.0008745
1287.1	0.0256007	0.0007412
1287.59	0.0242776	0.0008865
1288.07	0.0194945	0.0007867
1288.55	0.02473	0.0006697
1289.03	0.0280124	0.0005502
1289.51	0.0225221	0.0007524
1290	0.0216887	0.0006377
1290.48	0.0280413	0.0007798
1290.96	0.0269536	0.0008552
1291.44	0.0197727	0.0007799
1291.93	0.0253072	0.0007761

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1292.41	0.0310195	0.0008504
1292.89	0.0281828	0.0009276
1293.37	0.027434	0.0007454
1293.85	0.0349192	0.0006969
1294.34	0.0295369	0.0009899
1294.82	0.0277869	0.0007846
1295.3	0.0279657	0.0007868
1295.78	0.0295846	0.000804
1296.26	0.0316586	0.0006057
1296.75	0.0297232	0.0005719
1297.23	0.0296321	0.0008668
1297.71	0.0290659	0.0008621
1298.19	0.0324152	0.0010123
1298.68	0.0296681	0.0008761
1299.16	0.028825	0.0008979
1299.64	0.0320937	0.0006615
1300.12	0.033092	0.0007444
1300.6	0.0319476	0.0008589
1301.09	0.0290845	0.0008205
1301.57	0.0359092	0.0007524
1302.05	0.0351789	0.0009548
1302.53	0.0331606	0.0009058
1303.02	0.0353476	0.0008636
1303.5	0.036013	0.0006895
1303.98	0.0341163	0.0010161
1304.46	0.0326161	0.0005661
1304.94	0.0367844	0.0008196
1305.43	0.0347749	0.0009655
1305.91	0.0376972	0.0010548
1306.39	0.0395839	0.0008659
1306.87	0.0348298	0.000756
1307.35	0.0369476	0.0009539
1307.84	0.0410077	0.0007623
1308.32	0.0426671	0.0008085
1308.8	0.0397761	0.0009505
1309.28	0.0444305	0.0008993
1309.77	0.0423336	0.000925
1310.25	0.0335961	0.0007954
1310.73	0.0353265	0.0009081
1311.21	0.0432627	0.0007788
1311.69	0.0391337	0.001
1312.18	0.0382119	0.0008804
1312.66	0.0503075	0.0008677
1313.14	0.0420171	0.0010146
1313.62	0.0373887	0.0009219

Methanol 7.66 Mole % 15.7 Torr MS07AV5 MS07AD5

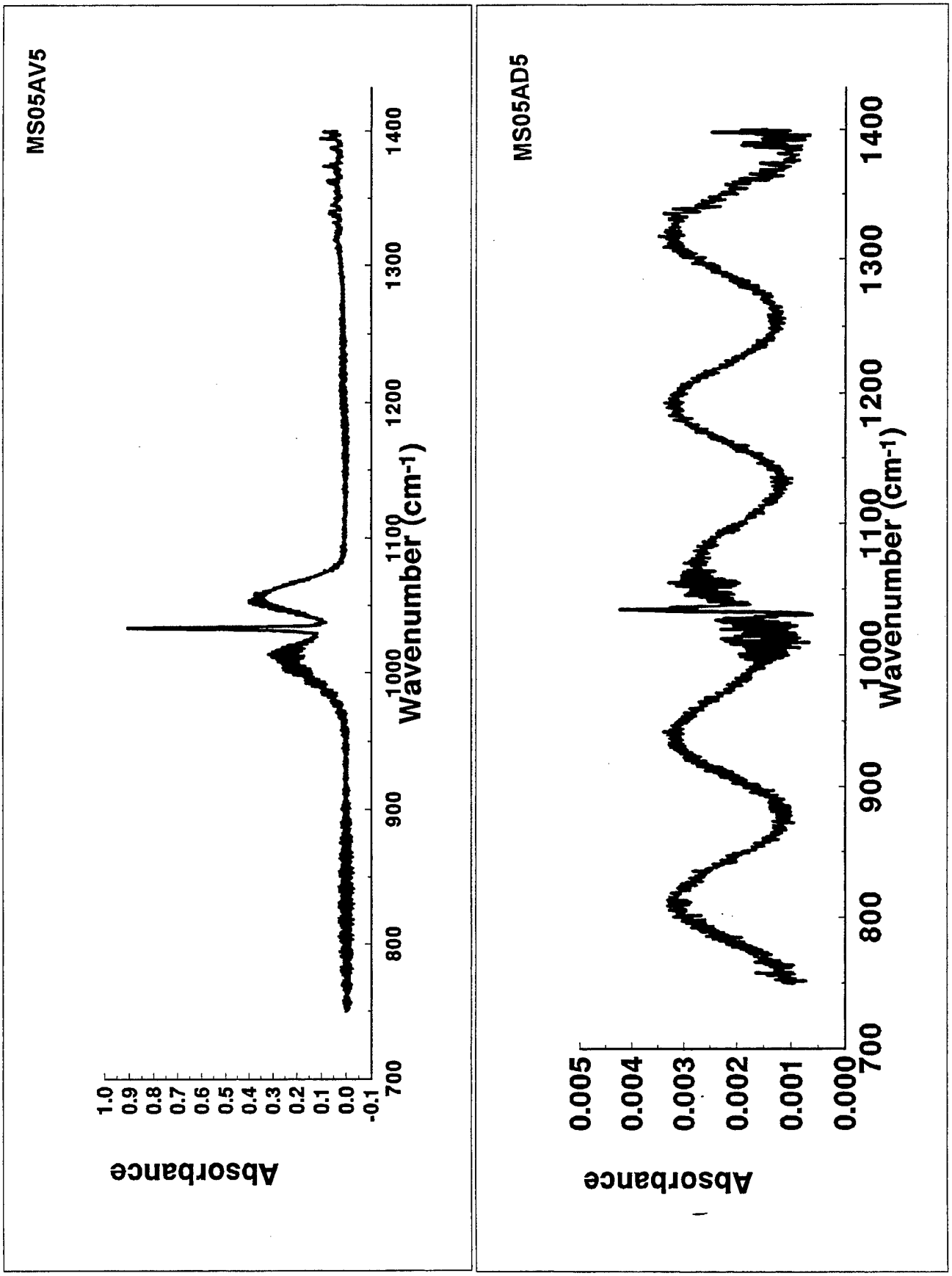
WN (cm-1)	AVE (A.U.)	AD (A.U.)
1314.11	0.0357844	0.0007514
1314.59	0.0464098	0.0008488
1315.07	0.0450272	0.0007143
1315.55	0.0394238	0.0008622
1316.03	0.0421482	0.0009818
1316.52	0.0450416	0.0011294
1317	0.0480496	0.0013873
1317.48	0.0494584	0.0009035
1317.96	0.0581282	0.0009621
1318.44	0.0486306	0.0012271
1318.93	0.0607926	0.0008883
1319.41	0.0505036	0.0007744
1319.89	0.047772	0.0010719
1320.37	0.0574277	0.0010698
1320.86	0.0594699	0.000892
1321.34	0.050987	0.0010044
1321.82	0.0545716	0.0008227
1322.3	0.0568124	0.0007056
1322.78	0.0467972	0.0008472
1323.27	0.0416116	0.0009726
1323.75	0.051607	0.0009632
1324.23	0.0574494	0.0009665
1324.71	0.039301	0.0009404
1325.2	0.0394418	0.0008467
1325.68	0.0538906	0.000651
1326.16	0.0479227	0.00079
1326.64	0.0379484	0.0008205
1327.12	0.0457002	0.0008512
1327.61	0.0485386	0.0009679
1328.09	0.0365562	0.0009633
1328.57	0.0396243	0.0006847
1329.05	0.0520358	0.0006796
1329.54	0.044983	0.0007646
1330.02	0.0418304	0.0008867
1330.5	0.0544745	0.0008749
1330.98	0.0577592	0.001108
1331.46	0.0587675	0.0010167
1331.95	0.0700971	0.0006257
1332.43	0.0593374	0.0007051
1332.91	0.0388397	0.0005325
1333.39	0.0418789	0.0003888
1333.87	0.0446502	0.0005613
1334.36	0.0374683	0.0008085
1334.84	0.0369598	0.0008596
1335.32	0.0475357	0.000625

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1335.8	0.0426054	0.0010496
1336.29	0.0401176	0.0009295
1336.77	0.0636959	0.0005834
1337.25	0.0499908	0.0006916
1337.73	0.042197	0.0011854
1338.21	0.0557832	0.000966
1338.7	0.0812802	0.0014311
1339.18	0.0639685	0.0012691
1339.66	0.067258	0.0006372
1340.14	0.0799516	0.0003482
1340.63	0.0769489	0.0006157
1341.11	0.0398868	0.0007896
1341.59	0.0483174	0.0007895
1342.07	0.0513523	0.0005847
1342.55	0.0431212	0.0007228
1343.04	0.0466451	0.0009189
1343.52	0.0541845	0.00074
1344	0.049807	0.0011211
1344.48	0.0576691	0.000932
1344.96	0.0802103	0.0007782
1345.45	0.0786116	0.0006114
1345.93	0.0628939	0.0007515
1346.41	0.0646684	0.000645
1346.89	0.0674194	0.0006885
1347.38	0.0606906	0.0003921
1347.86	0.0544178	0.0006939
1348.34	0.0586523	0.0006268
1348.82	0.0481561	0.0008335
1349.3	0.0475389	0.000624
1349.79	0.0587036	0.0006757
1350.27	0.0461046	0.0006626
1350.75	0.0353554	0.0005751
1351.23	0.047983	0.0004582
1351.72	0.0506403	0.0006003
1352.2	0.039977	0.0008515
1352.68	0.0443907	0.0007575
1353.16	0.0540516	0.0005137
1353.64	0.049892	0.0012161
1354.13	0.045361	0.0005753
1354.61	0.0568023	0.0006297
1355.09	0.0611496	0.0003227
1355.57	0.0446068	0.0005213
1356.05	0.0500471	0.0005718
1356.54	0.0536806	0.0006275
1357.02	0.0505861	0.0006835

Methanol 7.66 Mole % 15.7 Torr MS07AV5
MS07AD5

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1357.5	0.0534302	0.000428
1357.98	0.0594944	0.0005648
1358.47	0.0530906	0.0005477
1358.95	0.0485871	0.000541
1359.43	0.0588573	0.0006867
1359.91	0.0582374	0.0016756
1360.39	0.0566411	0.00113
1360.88	0.0700687	0.0010273
1361.36	0.0857316	0.0009661
1361.84	0.0507946	0.0008297
1362.32	0.0573502	0.0009289
1362.81	0.0888754	0.0011727
1363.29	0.0879982	0.0006111
1363.77	0.0432119	0.0022602
1364.25	0.0534219	0.0010809
1364.73	0.0527416	0.0005602
1365.22	0.0366316	0.0005791
1365.7	0.047203	0.0006432
1366.18	0.0529278	0.0007828
1366.66	0.036823	0.0011918
1367.14	0.0422433	0.0008762
1367.63	0.0557302	0.0009648
1368.11	0.0451615	0.0011841
1368.59	0.0533891	0.000878
1369.07	0.0593757	0.0008871
1369.56	0.0475443	0.0003157
1370.04	0.0460076	0.0002821
1370.52	0.0609032	0.0004856
1371	0.0570505	0.0006974
1371.48	0.042967	0.0010177
1371.97	0.0543496	0.0009561
1372.45	0.0688191	0.0010814
1372.93	0.050566	0.00169
1373.41	0.0573207	0.0013447
1373.9	0.0993716	0.0010319
1374.38	0.0571344	0.0009732
1374.86	0.045681	0.0005949
1375.34	0.0715487	0.0011336
1375.82	0.0534732	0.0006547
1376.31	0.0349379	0.0005695
1376.79	0.0380173	0.0003418
1377.27	0.0515891	0.0009978
1377.75	0.0435979	0.0009348
1378.23	0.0439503	0.0007408
1378.72	0.0478108	0.0008402

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1379.2	0.0486905	0.0008529
1379.68	0.0435278	0.000514
1380.16	0.0475049	0.000473
1380.65	0.0463956	0.0003602
1381.13	0.0329588	0.0003347
1381.61	0.0393461	0.0004428
1382.09	0.0457058	0.0005927
1382.57	0.0343376	0.0004413
1383.06	0.0349654	0.0004187
1383.54	0.0454786	0.000202
1384.02	0.0380131	0.0005005
1384.5	0.0331118	0.0002869
1384.99	0.0486043	0.0007037
1385.47	0.0510204	0.0012713
1385.95	0.0380175	0.0016297
1386.43	0.0588406	0.0019792
1386.91	0.0711039	0.0017316
1387.4	0.0675699	0.001946
1387.88	0.0709836	0.0035694
1388.36	0.0541459	0.0014359
1388.84	0.0465912	0.0002695
1389.33	0.0340148	0.0001289
1389.81	0.0431216	0.0005472
1390.29	0.0455345	0.0004189
1390.77	0.0336745	0.000429
1391.25	0.039259	0.0001185
1391.74	0.0475452	0.000489
1392.22	0.0381929	0.0007044
1392.7	0.0378846	0.0009388
1393.18	0.0534481	0.0017345
1393.66	0.0552681	0.0026391
1394.15	0.0668485	0.0025524
1394.63	0.112253	0.0004166
1395.11	0.0642065	0.0021224
1395.59	0.0530996	0.0006786
1396.08	0.0704054	0.0015407
1396.56	0.0520737	0.0004087
1397.04	0.0421882	0.0006699
1397.52	0.0464917	0.0011629
1398	0.0732501	0.001325
1398.49	0.0559011	0.0020992
1398.97	0.0637192	0.0013339
1399.45	0.0946882	0.0021174
1399.93	0.0492178	0.0013621


MS05AV5
Absorbance
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
-0.1
700
800
900
1000
1100
1200
1300
1400
Wavenumber (cm-1)
MS05AD5
Absorbance
0.005
0.004
0.003
0.002
0.001
0.000
700
800
900
1000
1100
1200
1300
1400
Wavenumber (cm-1)

Methanol 4.98 Mole % 10.8 Torr MS05AV5
MS05AD5

WN (cm-1)	AVE (A.U.)	AD (A.U.)
749.927	0.0002291	0.000943
750.409	-0.0022117	0.0011439
750.891	-0.006186	0.0010253
751.373	-0.0056109	0.0007365
751.856	0.0008047	0.0010514
752.338	0.0008367	0.0012773
752.82	-0.0098435	0.0011856
753.302	-0.0083141	0.0009203
753.785	0.00491	0.0012028
754.267	0.0007187	0.0011838
754.749	-0.014403	0.0011691
755.231	-0.0075089	0.0010293
755.714	0.0087698	0.0014264
756.196	-0.0028329	0.0011421
756.678	-0.0175514	0.0009401
757.16	-0.0012341	0.0012743
757.643	0.010664	0.00164
758.125	-0.0078967	0.0009735
758.607	-0.012585	0.0012437
759.089	0.005192	0.0012896
759.571	0.0047116	0.0012299
760.054	-0.0103346	0.0011557
760.536	-0.0050585	0.0012945
761.018	0.0040714	0.0012229
761.5	-0.003756	0.0010054
761.983	-0.0054338	0.0011949
762.465	0.0001204	0.0013846
762.947	-0.005021	0.0011836
763.429	-0.0072006	0.0009573
763.912	0.0019651	0.0013307
764.394	-0.0024924	0.0014785
764.876	-0.0129501	0.0011741
765.358	-0.0011096	0.001379
765.841	0.0072662	0.0016558
766.323	-0.0110273	0.0012286
766.805	-0.0146397	0.0012137
767.287	0.0087226	0.0015756
767.77	0.0063924	0.0015819
768.252	-0.0187758	0.0013562
768.734	-0.0078926	0.0015196
769.216	0.0146337	0.0015908
769.698	-0.0031261	0.00145
770.181	-0.0198778	0.0015307
770.663	0.0030471	0.0016732
771.145	0.0122361	0.001675

WN (cm-1)	AVE (A.U.)	AD (A.U.)
771.627	-0.0117582	0.0013612
772.11	-0.0107731	0.0015372
772.592	0.008394	0.001756
773.074	-0.000397	0.0014282
773.556	-0.0116379	0.0016574
774.039	0.0005713	0.0018188
774.521	0.0013262	0.0017943
775.003	-0.0105666	0.0015388
775.485	-0.0013641	0.0018362
775.968	0.0049064	0.0019174
776.45	-0.0108302	0.0016382
776.932	-0.0076829	0.0017139
777.414	0.013004	0.0020792
777.897	-0.0005785	0.0017492
778.379	-0.0187444	0.0017296
778.861	0.0046605	0.0019894
779.343	0.0170343	0.0021773
779.825	-0.0136843	0.0018406
780.308	-0.0148453	0.0021918
780.79	0.0185246	0.0021926
781.272	0.0075553	0.0019639
781.754	-0.0233082	0.0018725
782.237	-0.0025661	0.0023216
782.719	0.019087	0.0022058
783.201	-0.0090836	0.002054
783.683	-0.0173067	0.0024441
784.166	0.0091345	0.0022488
784.648	0.0066354	0.0019146
785.13	-0.0154198	0.0022178
785.612	-0.00205	0.0025606
786.095	0.0088737	0.002228
786.577	-0.0092972	0.0021742
787.059	-0.0081401	0.0024978
787.541	0.0090798	0.002487
788.024	-0.005105	0.002379
788.506	-0.0146513	0.0022498
788.988	0.0080165	0.0026328
789.47	0.0069066	0.0026708
789.952	-0.0200563	0.0023516
790.435	-0.0037349	0.0025746
790.917	0.0204774	0.0026989
791.399	-0.0089946	0.0024142
791.881	-0.0228746	0.002644
792.364	0.013914	0.0028464
792.846	0.014245	0.0025658

Methanol 4.98 Mole % 10.8 Torr MS05AV5
MS05AD5

WN (cm-1)	AVE (A.U.)	AD (A.U.)
793.328	-0.0233673	0.0024421
793.81	-0.0088668	0.0028223
794.293	0.0244067	0.0026396
794.775	-0.0021207	0.0025831
795.257	-0.0222607	0.0028046
795.739	0.008966	0.0029419
796.222	0.0152252	0.0025954
796.704	-0.0166868	0.0026418
797.186	-0.0071699	0.0030247
797.668	0.0144447	0.0030046
798.151	-0.0055363	0.0026014
798.633	-0.0130277	0.00302
799.115	0.0104037	0.0029727
799.597	0.0031169	0.0028325
800.08	-0.0167489	0.0028353
800.562	0.0046685	0.0031839
801.044	0.0134292	0.0030133
801.526	-0.0165787	0.0026705
802.008	-0.0105785	0.0031268
802.491	0.0216631	0.0031122
802.973	-0.0004436	0.0029985
803.455	-0.0258507	0.0031178
803.937	0.0096446	0.003138
804.42	0.022748	0.0030978
804.902	-0.0203656	0.0029516
805.384	-0.0147014	0.0031279
805.866	0.0265365	0.003265
806.349	0.005294	0.0029582
806.831	-0.0254578	0.0030166
807.313	0.0069723	0.0031688
807.795	0.0217222	0.0030395
808.278	-0.0149573	0.0030622
808.76	-0.0126152	0.0033027
809.242	0.0179368	0.0031055
809.724	0.0000912	0.0029013
810.206	-0.0181611	0.0031945
810.689	0.0074255	0.0032674
811.171	0.0091207	0.0030001
811.653	-0.0173953	0.0028654
812.135	-0.000421	0.0032871
812.618	0.0169147	0.0032593
813.1	-0.0123603	0.0029327
813.582	-0.0152006	0.0032974
814.064	0.02054	0.0032409
814.547	0.0052093	0.0031338

WN (cm-1)	AVE (A.U.)	AD (A.U.)
815.029	-0.0265401	0.0031681
815.511	0.0057103	0.0032573
815.993	0.0260502	0.0031164
816.476	-0.0168324	0.0031019
816.958	-0.0187837	0.0031278
817.44	0.0260392	0.0031284
817.922	0.0090597	0.0030606
818.405	-0.0278525	0.0032321
818.887	0.0031452	0.0031557
819.369	0.0261889	0.0030604
819.851	-0.0124878	0.0030732
820.334	-0.016314	0.0030504
820.816	0.0198952	0.002887
821.298	0.0054461	0.0029349
821.78	-0.0205182	0.0030122
822.262	0.0058497	0.0031062
822.745	0.0133281	0.0028718
823.227	-0.0160056	0.0029228
823.709	-0.0059599	0.0030738
824.191	0.0179507	0.0030508
824.674	-0.0076985	0.0027584
825.156	-0.0171508	0.0028712
825.638	0.0183396	0.0030324
826.12	0.0090659	0.002929
826.603	-0.025364	0.0027895
827.085	0.0029965	0.0029373
827.567	0.0278857	0.0026519
828.049	-0.0139594	0.0028425
828.532	-0.0212308	0.0028302
829.014	0.0251163	0.0027271
829.496	0.0114291	0.0026722
829.978	-0.0287623	0.0028778
830.461	0.0011077	0.0026878
830.943	0.0270403	0.0026211
831.425	-0.0123958	0.0026622
831.907	-0.0197461	0.0027656
832.39	0.0188416	0.0026554
832.872	0.0075042	0.0025888
833.354	-0.0225502	0.0026909
833.836	0.0026878	0.002708
834.318	0.0158027	0.0025765
834.801	-0.015055	0.0025154
835.283	-0.0087634	0.002804
835.765	0.0176906	0.0025435
836.247	-0.0055965	0.0024725

Methanol 4.98 Mole % 10.8 Torr MS05AV5 MS05AD5

WN (cm-1)	AVE (A.U.)	AD (A.U.)
836.73	-0.0180487	0.0025819
837.212	0.0160413	0.0025417
837.694	0.0094115	0.0025226
838.176	-0.0244295	0.0023798
838.659	0.0012805	0.0024218
839.141	0.0253407	0.0023363
839.623	-0.0140265	0.0023684
840.105	-0.020625	0.0022546
840.588	0.0250703	0.0024377
841.07	0.0104021	0.0022619
841.552	-0.0294035	0.002087
842.034	0.0010892	0.0022358
842.516	0.0263057	0.0020123
842.999	-0.0139231	0.0021176
843.481	-0.0215548	0.0022951
843.963	0.0192624	0.0021593
844.445	0.0074394	0.0020279
844.928	-0.0236067	0.0021552
845.41	0.002266	0.0021251
845.892	0.0168075	0.0020213
846.374	-0.0139276	0.0019883
846.857	-0.0099326	0.0021806
847.339	0.0164635	0.002093
847.821	-0.0037889	0.001923
848.303	-0.0171006	0.0019413
848.786	0.0137876	0.0020567
849.268	0.008038	0.0017828
849.75	-0.0218656	0.0017913
850.232	0.0022652	0.0018897
850.715	0.0225039	0.0018766
851.197	-0.0142819	0.0017481
851.679	-0.0179914	0.0016531
852.161	0.0240592	0.0017117
852.644	0.0068479	0.0016561
853.126	-0.0283719	0.0017084
853.608	0.0034703	0.0017133
854.09	0.0247411	0.001559
854.572	-0.0158832	0.001501
855.055	-0.0199409	0.0015697
855.537	0.0205791	0.001525
856.019	0.0054596	0.0015114
856.501	-0.0248266	0.0016687
856.984	0.0023719	0.0015333
857.466	0.0158237	0.0013883
857.948	-0.0144671	0.0014136

WN (cm-1)	AVE (A.U.)	AD (A.U.)
858.43	-0.0101506	0.0015141
858.913	0.0151115	0.001386
859.395	-0.0030464	0.001236
859.877	-0.0152497	0.0014915
860.359	0.0121087	0.0015039
860.842	0.0057926	0.0012947
861.324	-0.019111	0.001315
861.806	0.0038165	0.0014426
862.288	0.0179963	0.0013671
862.771	-0.0149591	0.0012421
863.253	-0.0136665	0.0013535
863.735	0.0223888	0.001318
864.217	0.0023036	0.0011802
864.699	-0.0258823	0.0013447
865.182	0.0078814	0.0013324
865.664	0.0211272	0.0011846
866.146	-0.0178731	0.0012784
866.628	-0.0146469	0.0010967
867.111	0.0211058	0.0011706
867.593	0.0017388	0.0011039
868.075	-0.0235789	0.0013081
868.557	0.0046421	0.0012079
869.04	0.0139629	0.0011142
869.522	-0.0152595	0.001305
870.004	-0.0088698	0.0013104
870.486	0.0135544	0.001162
870.969	-0.0043678	0.0011668
871.451	-0.0132973	0.0011929
871.933	0.0112756	0.0011708
872.415	0.0035958	0.0009528
872.898	-0.0150123	0.0012459
873.38	0.0068526	0.0013226
873.862	0.0130095	0.0010799
874.344	-0.0146619	0.0010372
874.827	-0.0061168	0.001246
875.309	0.0210738	0.001172
875.791	-0.0028617	0.0010362
876.273	-0.0209335	0.0012572
876.756	0.0125959	0.0011483
877.238	0.0147246	0.0010563
877.72	-0.0196311	0.0010085
878.202	-0.008701	0.0012612
878.684	0.0206947	0.0010201
879.167	-0.0025043	0.0011158
879.649	-0.0205708	0.001267

Methanol 4.98 Mole % 10.8 Torr MS05AV5
MS05AD5

WN (cm-1)	AVE (A.U.)	AD (A.U.)
880.131	0.0080792	0.0011586
880.613	0.0120611	0.0010123
881.096	-0.0151863	0.0013533
881.578	-0.0060439	0.0012209
882.06	0.0122951	0.0010332
882.542	-0.0048917	0.0011979
883.025	-0.0101479	0.0013788
883.507	0.0088168	0.0011602
883.989	0.000401	0.0010187
884.471	-0.0117947	0.0013826
884.954	0.0064098	0.0013863
885.436	0.0068454	0.0010429
885.918	-0.0132528	0.0013113
886.4	-0.0003366	0.0013717
886.882	0.0157899	0.0011494
887.365	-0.00732	0.0011733
887.847	-0.0135942	0.0013995
888.329	0.0146535	0.0012637
888.811	0.0072535	0.0011858
889.294	-0.0186215	0.0013838
889.776	-0.001325	0.0013324
890.258	0.0177502	0.0011454
890.74	-0.0072996	0.0012377
891.223	-0.0160802	0.0013854
891.705	0.0110967	0.0013444
892.187	0.0072264	0.0012947
892.669	-0.0150736	0.0014851
893.152	-0.0021827	0.0014667
893.634	0.0105561	0.001257
894.116	-0.0049827	0.0015862
894.598	-0.007416	0.0015726
895.081	0.00687	0.0014173
895.563	8.19E-07	0.0015551
896.045	-0.0061909	0.0017401
896.527	0.0060782	0.0015514
897.009	0.0029811	0.0013301
897.492	-0.0077927	0.001649
897.974	0.0046943	0.0017172
898.456	0.0094169	0.0015429
898.938	-0.0078721	0.0016921
899.421	-0.0033039	0.0018576
899.903	0.0147783	0.0017897
900.385	0.0005116	0.00158
900.867	-0.014054	0.0018664
901.35	0.0060467	0.0019028

WN (cm-1)	AVE (A.U.)	AD (A.U.)
901.832	0.012052	0.0016182
902.314	-0.0103741	0.0018624
902.796	-0.0085827	0.0020762
903.279	0.0117665	0.001821
903.761	0.0015501	0.0018351
904.243	-0.0125423	0.0020122
904.725	0.0013415	0.0019539
905.208	0.0076773	0.0018274
905.69	-0.0055148	0.0021284
906.172	-0.004634	0.0021165
906.654	0.0047748	0.0018904
907.137	0.0002832	0.0020306
907.619	-0.0026877	0.0022993
908.101	0.0033529	0.002023
908.583	0.0002029	0.0019691
909.066	-0.0024463	0.0023253
909.548	0.0053649	0.0021467
910.03	0.0023645	0.0020714
910.512	-0.0063671	0.0022905
910.994	0.0030176	0.0024259
911.477	0.0091353	0.0020819
911.959	-0.0045289	0.0022136
912.441	-0.0061796	0.0025909
912.923	0.0090486	0.0024501
913.406	0.0045263	0.002224
913.888	-0.0094643	0.0024465
914.37	-0.0014325	0.0025756
914.852	0.0091018	0.0022759
915.335	-0.0020304	0.0023819
915.817	-0.0073523	0.0027288
916.299	0.0039874	0.0024614
916.781	0.0047125	0.0025596
917.263	-0.003791	0.0027489
917.746	-0.0026832	0.0026447
918.228	0.0035653	0.0025493
918.71	0.001855	0.0028233
919.192	-0.0001339	0.0028381
919.675	0.0002312	0.0025783
920.157	0.0002709	0.002795
920.639	0.0037102	0.0029619
921.121	0.003192	0.0027777
921.604	-0.0022352	0.0027392
922.086	-0.0003202	0.0028936
922.568	0.006354	0.0029958
923.05	0.0012723	0.002684

Methanol 4.98 Mole % 10.8 Torr MS05AV5
MS05AD5

WN (cm-1)	AVE (A.U.)	AD (A.U.)
923.533	-0.0050439	0.0029632
924.015	0.00192	0.0029648
924.497	0.0067463	0.0027849
924.979	-0.0013677	0.0028669
925.462	-0.0040221	0.0030514
925.944	0.0035173	0.0029734
926.426	0.0045398	0.0028382
926.908	-0.0027159	0.0030473
927.391	-0.0027304	0.0031063
927.873	0.0029979	0.0029272
928.355	0.0016708	0.0030243
928.837	-0.0023456	0.0031809
929.319	-0.0019968	0.0029525
929.802	0.0018986	0.0030069
930.284	0.0034498	0.0032487
930.766	-0.0006582	0.0031396
931.248	-0.0031802	0.0029849
931.731	0.0032691	0.0032043
932.213	0.0065204	0.0032747
932.695	-0.0018216	0.0030117
933.177	-0.0025446	0.0030571
933.66	0.007299	0.0032758
934.142	0.0046707	0.0031305
934.624	-0.0045837	0.0030816
935.106	-0.0002651	0.0032184
935.589	0.0071489	0.0031589
936.071	0.0005681	0.0030309
936.553	-0.0042248	0.00315
937.035	0.0024369	0.0032661
937.518	0.003763	0.0030556
938	-0.0009222	0.0031578
938.482	-0.0004931	0.0032168
938.964	0.0014466	0.0031386
939.447	0.0010487	0.0030677
939.929	0.0018961	0.0033044
940.411	0.0003151	0.0032572
940.893	-0.0031526	0.0030146
941.375	0.0027125	0.0030825
941.858	0.0058603	0.0033792
942.34	-0.0039763	0.0031479
942.822	-0.0036892	0.0030595
943.304	0.008137	0.0032623
943.787	0.0049338	0.0031595
944.269	-0.0074801	0.0030166
944.751	0.0011812	0.0031062

WN (cm-1)	AVE (A.U.)	AD (A.U.)
945.233	0.0114013	0.0031955
945.716	-0.0022174	0.0030899
946.198	-0.0061549	0.0030951
946.68	0.0085069	0.0032197
947.162	0.0072134	0.0030507
947.645	-0.0062904	0.0030333
948.127	0.0003922	0.0031507
948.609	0.0085001	0.0031527
949.091	-0.0014403	0.00294
949.573	-0.0025966	0.0031118
950.056	0.004873	0.0031109
950.538	0.0014764	0.0029024
951.02	-0.0010788	0.0028998
951.502	0.0056722	0.0030723
951.985	0.0015189	0.0029371
952.467	-0.0045131	0.0028404
952.949	0.0055418	0.0030273
953.431	0.0083336	0.0030315
953.914	-0.0054578	0.0027746
954.396	0.0001569	0.0028764
954.878	0.0137762	0.0029711
955.36	0.001801	0.0028526
955.843	-0.0064351	0.0027853
956.325	0.0104436	0.0029827
956.807	0.0123451	0.0028906
957.289	-0.0079087	0.0027511
957.772	0.0015946	0.0027826
958.254	0.0180733	0.0028223
958.736	0.0026369	0.0026424
959.218	-0.0057843	0.0027178
959.7	0.012527	0.0028819
960.183	0.0139951	0.0027388
960.665	-0.0024748	0.002646
961.147	0.0048296	0.0026893
961.629	0.0135322	0.0026447
962.112	0.002048	0.0025737
962.594	0.0047003	0.002635
963.076	0.0142564	0.0026823
963.558	0.0046256	0.0025775
964.041	0.0006946	0.0024926
964.523	0.0162396	0.002706
965.005	0.0133774	0.0026272
965.487	-0.0014273	0.0023594
965.97	0.0110403	0.0025354
966.452	0.0215115	0.0025877

Methanol 4.98 Mole % 10.8 Torr MS05AV5
MS05AD5

WN (cm-1)	AVE (A.U.)	AD (A.U.)
966.934	0.0056007	0.0024212
967.416	0.0062309	0.0023562
967.899	0.0269916	0.002585
968.381	0.0156167	0.0023963
968.863	0.0024215	0.0023403
969.345	0.0253415	0.0022858
969.828	0.0307507	0.0023019
970.31	0.0017144	0.002302
970.792	0.0099117	0.0022737
971.274	0.0378479	0.0023809
971.757	0.0237564	0.0021251
972.239	0.0054682	0.0022275
972.721	0.0237564	0.0022119
973.203	0.0326738	0.0021182
973.685	0.0215215	0.0020619
974.168	0.0246468	0.0022231
974.65	0.0284998	0.0021706
975.132	0.0197416	0.0020708
975.614	0.0305031	0.0021322
976.097	0.0471224	0.0021241
976.579	0.0237328	0.0019706
977.061	0.017006	0.0019153
977.543	0.0483998	0.0021707
978.026	0.0561622	0.0020617
978.508	0.0228279	0.0019501
978.99	0.0310023	0.0020303
979.472	0.0594458	0.0020762
979.955	0.0505145	0.0019218
980.437	0.0422094	0.0018087
980.919	0.0498442	0.0019177
981.401	0.052349	0.0019274
981.884	0.0456609	0.0017576
982.366	0.0718433	0.0020181
982.848	0.0622084	0.0019051
983.33	0.0403731	0.0017537
983.812	0.0579225	0.0018259
984.295	0.0943905	0.0019152
984.777	0.0657503	0.0018486
985.259	0.0391031	0.0017533
985.741	0.0775156	0.0018954
986.224	0.0990553	0.0017996
986.706	0.0764974	0.0017419
987.188	0.0569552	0.0017907
987.67	0.0907773	0.0017137
988.153	0.093322	0.0016613

WN (cm-1)	AVE (A.U.)	AD (A.U.)
988.635	0.101075	0.0018091
989.117	0.082279	0.0017522
989.599	0.0876657	0.0015406
990.082	0.0959271	0.0015028
990.564	0.134735	0.0017198
991.046	0.102626	0.0017543
991.528	0.0797864	0.0015196
992.01	0.117667	0.0015658
992.493	0.159765	0.0015356
992.975	0.114325	0.0016856
993.457	0.0873161	0.0014679
993.939	0.145134	0.0014973
994.422	0.163264	0.0013756
994.904	0.133443	0.0016708
995.386	0.110637	0.0015026
995.868	0.155213	0.0013431
996.351	0.158096	0.001297
996.833	0.168405	0.0018409
997.315	0.13463	0.0015131
997.797	0.146351	0.0011595
998.28	0.169823	0.001347
998.762	0.212132	0.0019228
999.244	0.14437	0.0014796
999.726	0.139578	0.0010589
1000.2	0.201893	0.0014121
1000.69	0.243432	0.0019527
1001.17	0.143261	0.0015605
1001.65	0.154397	0.0010829
1002.13	0.235739	0.0012052
1002.62	0.251148	0.001811
1003.1	0.146977	0.0014766
1003.58	0.189523	0.0011011
1004.06	0.253825	0.0013142
1004.54	0.248164	0.0018268
1005.03	0.166243	0.0016635
1005.51	0.214367	0.00085
1005.99	0.24773	0.0009046
1006.47	0.257872	0.0018757
1006.96	0.190664	0.0017874
1007.44	0.223629	0.0010154
1007.92	0.246878	0.0011904
1008.4	0.277027	0.002114
1008.88	0.191382	0.0014939
1009.37	0.226987	0.000677
1009.85	0.266911	0.0011596

Methanol 4.98 Mole % 10.8 Torr MS05AV5
MS05AD5

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1010.33	0.283306	0.0022191
1010.81	0.17628	0.0011989
1011.3	0.23832	0.0009012
1011.78	0.302709	0.0015086
1012.26	0.263932	0.0022877
1012.74	0.171123	0.000853
1013.22	0.257795	0.0010168
1013.71	0.316453	0.0015589
1014.19	0.220251	0.0020331
1014.67	0.193423	0.00101
1015.15	0.279214	0.0009091
1015.64	0.298934	0.0016774
1016.12	0.180855	0.0018973
1016.6	0.237565	0.0009307
1017.08	0.282415	0.0011194
1017.56	0.257951	0.0018482
1018.05	0.170433	0.0016301
1018.53	0.2594	0.0010796
1019.01	0.25349	0.0013618
1019.49	0.201791	0.0022964
1019.98	0.181243	0.0012329
1020.46	0.234808	0.0010269
1020.94	0.224107	0.0018358
1021.42	0.159552	0.0020595
1021.9	0.199409	0.0009005
1022.39	0.191209	0.0014004
1022.87	0.175861	0.002073
1023.35	0.13592	0.001464
1023.83	0.168775	0.0010299
1024.32	0.164038	0.0017362
1024.8	0.149431	0.0022887
1025.28	0.136216	0.0012414
1025.76	0.129474	0.0017075
1026.25	0.140329	0.0023875
1026.73	0.118656	0.0018866
1027.21	0.131274	0.0015192
1027.69	0.12696	0.0022483
1028.17	0.129245	0.0020448
1028.66	0.119807	0.0012609
1029.14	0.118987	0.0016025
1029.62	0.14661	0.0016663
1030.1	0.167792	0.0008256
1030.58	0.186719	0.0006293
1031.07	0.237288	0.0007153
1031.55	0.330249	0.0007972

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1032.03	0.403103	0.0012302
1032.51	0.538439	0.0018107
1033	0.775186	0.002844
1033.48	0.90439	0.0035632
1033.96	0.693204	0.0035416
1034.44	0.372846	0.0042246
1034.92	0.157461	0.0029274
1035.41	0.105213	0.002746
1035.89	0.107499	0.0032619
1036.37	0.122134	0.0031339
1036.85	0.0958238	0.0023981
1037.34	0.083314	0.0023103
1037.82	0.0993171	0.0022336
1038.3	0.106317	0.0017704
1038.78	0.095146	0.0021487
1039.26	0.0969623	0.0022953
1039.75	0.117888	0.0018101
1040.23	0.115981	0.0020917
1040.71	0.120562	0.0025349
1041.19	0.143939	0.0020629
1041.67	0.15996	0.0022551
1042.16	0.149092	0.0025497
1042.64	0.151949	0.0024982
1043.12	0.201856	0.0020788
1043.6	0.191556	0.0024342
1044.09	0.165688	0.0027067
1044.57	0.233735	0.0021595
1045.05	0.236938	0.0024564
1045.53	0.189206	0.0029698
1046.01	0.259294	0.0020655
1046.5	0.285863	0.0022552
1046.98	0.224514	0.002921
1047.46	0.280489	0.0021103
1047.94	0.317076	0.00222
1048.43	0.253159	0.0028787
1048.91	0.298552	0.0023785
1049.39	0.352279	0.0025674
1049.87	0.278689	0.0028725
1050.35	0.31352	0.002373
1050.84	0.382077	0.0026764
1051.32	0.303702	0.0028615
1051.8	0.321429	0.0021203
1052.28	0.397671	0.0029278
1052.77	0.323439	0.0031427
1053.25	0.33136	0.0020259

Methanol 4.98 Mole % 10.8 Torr MS05AV5 MS05AD5

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1053.73	0.398336	0.0029442
1054.21	0.333707	0.0028356
1054.69	0.347524	0.0019608
1055.18	0.382459	0.0032802
1055.66	0.33738	0.0028947
1056.14	0.364716	0.0020219
1056.62	0.357905	0.0030547
1057.1	0.336964	0.0028293
1057.59	0.376159	0.002244
1058.07	0.329545	0.0030375
1058.55	0.327373	0.0029519
1059.03	0.373076	0.0029452
1059.52	0.316831	0.0027897
1060	0.312292	0.0024673
1060.48	0.338466	0.0030426
1060.96	0.319602	0.0026522
1061.44	0.308364	0.0027291
1061.93	0.288478	0.0030107
1062.41	0.295059	0.0025191
1062.89	0.293892	0.0027665
1063.37	0.269475	0.0030011
1063.86	0.274551	0.0024195
1064.34	0.255558	0.0025876
1064.82	0.243132	0.0029258
1065.3	0.254544	0.0027378
1065.78	0.234943	0.0026624
1066.27	0.206992	0.0027274
1066.75	0.2026	0.0027435
1067.23	0.223952	0.0027979
1067.71	0.19983	0.0027639
1068.19	0.169757	0.0028586
1068.68	0.188465	0.0025928
1069.16	0.170868	0.0026589
1069.64	0.148601	0.0027473
1070.12	0.155845	0.0029879
1070.61	0.148104	0.002606
1071.09	0.136077	0.0025697
1071.57	0.118595	0.0028852
1072.05	0.126198	0.0026544
1072.53	0.113703	0.002643
1073.02	0.101135	0.0027958
1073.5	0.106853	0.0028324
1073.98	0.0945746	0.0025117
1074.46	0.0854018	0.0026716
1074.95	0.0751123	0.0027443

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1075.43	0.0860445	0.0026385
1075.91	0.0536146	0.0027556
1076.39	0.0630169	0.0026488
1076.87	0.0629155	0.0026829
1077.36	0.0561327	0.0025348
1077.84	0.0363109	0.0027261
1078.32	0.051581	0.0026498
1078.8	0.0475238	0.0025693
1079.28	0.0303463	0.002785
1079.77	0.0306327	0.0026813
1080.25	0.0442223	0.0025852
1080.73	0.0289897	0.0026402
1081.21	0.0186687	0.0026483
1081.7	0.031044	0.0025026
1082.18	0.0286842	0.0024548
1082.66	0.0148206	0.002729
1083.14	0.0190035	0.0025693
1083.62	0.0231112	0.0023735
1084.11	0.0148229	0.0026007
1084.59	0.0137724	0.0025945
1085.07	0.018268	0.0025056
1085.55	0.0138464	0.0024354
1086.04	0.0102455	0.0026325
1086.52	0.0161391	0.0024047
1087	0.0129985	0.0024143
1087.48	0.0062286	0.0025265
1087.96	0.0135473	0.0024953
1088.45	0.015901	0.0024421
1088.93	0.0056697	0.0023965
1089.41	0.007393	0.0024729
1089.89	0.0171735	0.0023207
1090.37	0.0088777	0.0023224
1090.86	0.0016884	0.0023519
1091.34	0.013025	0.0023531
1091.82	0.0152927	0.0022571
1092.3	0.0040306	0.0023797
1092.79	0.0066436	0.0022286
1093.27	0.0174408	0.0020716
1093.75	0.0109288	0.0022617
1094.23	0.0043025	0.0023365
1094.71	0.0108443	0.0021695
1095.2	0.0118213	0.0019707
1095.68	0.0046892	0.0022596
1096.16	0.0058079	0.0021961
1096.64	0.0096826	0.0021117

Methanol 4.98 Mole % 10.8 Torr MS05AV5 MS05AD5

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1097.13	0.007814	0.0019794
1097.61	0.0080271	0.0021729
1098.09	0.0077936	0.0019672
1098.57	0.0051851	0.0019089
1099.05	0.0072092	0.0020826
1099.54	0.0095059	0.0018962
1100.02	0.0047071	0.0018288
1100.5	0.0042776	0.0019605
1100.98	0.0099536	0.0019096
1101.46	0.0087	0.0018628
1101.95	0.0016941	0.0018475
1102.43	0.0059506	0.0018451
1102.91	0.0115994	0.0018285
1103.39	0.0044927	0.0018255
1103.88	0.0014288	0.0017933
1104.36	0.008362	0.0016984
1104.84	0.0088738	0.001665
1105.32	0.0025576	0.0018128
1105.8	0.0040262	0.0017082
1106.29	0.0099973	0.0016875
1106.77	0.007169	0.0017279
1107.25	0.0029331	0.0017558
1107.73	0.0046249	0.0015168
1108.22	0.0071933	0.0015219
1108.7	0.0065796	0.0016953
1109.18	0.0032737	0.0016043
1109.66	0.0035043	0.0015558
1110.14	0.0064554	0.0016713
1110.63	0.0062581	0.0015524
1111.11	0.0034555	0.0015187
1111.59	0.0044281	0.0015158
1112.07	0.0083239	0.0015312
1112.56	0.0059393	0.001549
1113.04	0.002374	0.0015781
1113.52	0.0059751	0.0015239
1114	0.0103454	0.0014286
1114.48	0.0074799	0.0013565
1114.97	0.0035892	0.0014512
1115.45	0.0065442	0.0014397
1115.93	0.0063602	0.0012871
1116.41	0.0032362	0.0013841
1116.89	0.0019766	0.0015048
1117.38	0.0037572	0.0012752
1117.86	0.005432	0.0013652
1118.34	0.0031984	0.0014539

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1118.82	0.0005792	0.0012699
1119.31	0.0035151	0.0012301
1119.79	0.0059526	0.0013447
1120.27	0.0022007	0.001381
1120.75	0.0008422	0.0011945
1121.23	0.0055151	0.0012681
1121.72	0.006232	0.0013773
1122.2	0.0007877	0.0012705
1122.68	0.0009884	0.0011524
1123.16	0.0074004	0.0012775
1123.65	0.005312	0.0012211
1124.13	-0.0000312	0.0012428
1124.61	0.0039679	0.0011956
1125.09	0.0066898	0.0013046
1125.57	0.0020734	0.0011113
1126.06	0.000261	0.0012824
1126.54	0.0043852	0.0012565
1127.02	0.0042703	0.0011513
1127.5	0.0012854	0.0011311
1127.98	0.0021669	0.0013341
1128.47	0.0026866	0.0012095
1128.95	0.0029436	0.0010927
1129.43	0.0039007	0.0011658
1129.91	0.001354	0.0012242
1130.4	0.0004799	0.001006
1130.88	0.0043067	0.0012384
1131.36	0.0042114	0.001351
1131.84	-0.0012597	0.0012745
1132.32	0.0005557	0.0010829
1132.81	0.0067461	0.001275
1133.29	0.0017396	0.0012091
1133.77	-0.0031322	0.0009961
1134.25	0.0054083	0.0013214
1134.74	0.0082983	0.0013614
1135.22	-0.0002144	0.0011051
1135.7	0.0017202	0.0012321
1136.18	0.0103879	0.0012515
1136.66	0.0037459	0.0011529
1137.15	-0.0025113	0.0011603
1137.63	0.004568	0.0012571
1138.11	0.0065638	0.0012755
1138.59	-0.0002102	0.0011767
1139.07	0.0007196	0.0012845
1139.56	0.0049578	0.0012347
1140.04	0.0020103	0.0011751

Methanol 4.98 Mole % 10.8 Torr MS05AV5 MS05AD5

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1140.52	0.0006073	0.001291
1141	0.0051928	0.0014184
1141.49	0.0049682	0.0011881
1141.97	0.0011256	0.0012894
1142.45	0.0051458	0.0014284
1142.93	0.0020695	0.0013317
1143.41	-0.0023068	0.0012248
1143.9	0.0048451	0.0013654
1144.38	0.0066105	0.0014845
1144.86	-0.002993	0.0013513
1145.34	-0.0007202	0.0014355
1145.83	0.0090697	0.0016079
1146.31	0.0010449	0.0014153
1146.79	-0.0060108	0.0013383
1147.27	0.0061928	0.001541
1147.75	0.0079601	0.0015576
1148.24	-0.0050786	0.001435
1148.72	-0.0002474	0.0015663
1149.2	0.0104638	0.0016055
1149.68	0.0007474	0.0014926
1150.16	-0.0045115	0.0015818
1150.65	0.0059891	0.0016699
1151.13	0.0045492	0.001542
1151.61	-0.0036104	0.0015572
1152.09	0.0024946	0.0017315
1152.58	0.0062341	0.0017121
1153.06	-0.0017184	0.0015336
1153.54	0.0002939	0.0017962
1154.02	0.0060112	0.0018161
1154.5	-0.0011584	0.0017149
1154.99	-0.0023564	0.0017225
1155.47	0.0066176	0.0020077
1155.95	0.000997	0.0018158
1156.43	-0.0055192	0.0018098
1156.92	0.0067694	0.0020267
1157.4	0.0078976	0.0020602
1157.88	-0.0064027	0.0018808
1158.36	0.0001319	0.0019862
1158.84	0.0122676	0.0021158
1159.33	-0.001229	0.0018029
1159.81	-0.0059148	0.0020803
1160.29	0.0099724	0.0021614
1160.77	0.0070026	0.002074
1161.26	-0.006796	0.0021026
1161.74	0.0021852	0.0022632

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1162.22	0.010866	0.0022043
1162.7	-0.0021699	0.002088
1163.18	-0.0024895	0.002236
1163.67	0.0094702	0.0023628
1164.15	0.0035703	0.0022049
1164.63	-0.0021664	0.0023462
1165.11	0.0064913	0.0024798
1165.59	0.0053898	0.0022613
1166.08	-0.0036816	0.0023126
1166.56	0.0034266	0.0025237
1167.04	0.0067768	0.0024847
1167.52	-0.0039568	0.0023825
1168.01	0.0001936	0.0025021
1168.49	0.0096392	0.0025551
1168.97	-0.0013689	0.0024593
1169.45	-0.0058353	0.0025144
1169.93	0.0099493	0.0027655
1170.42	0.0064263	0.002563
1170.9	-0.0086888	0.0025933
1171.38	0.0032357	0.0027751
1171.86	0.012999	0.0026677
1172.35	-0.0044905	0.0025627
1172.83	-0.0044806	0.0027188
1173.31	0.0129723	0.0028518
1173.79	0.0049085	0.0027565
1174.27	-0.0068777	0.0028402
1174.76	0.0080051	0.0028959
1175.24	0.0106518	0.0027897
1175.72	-0.004117	0.0027269
1176.2	0.0012829	0.002956
1176.68	0.0112433	0.0028759
1177.17	0.0004426	0.0028537
1177.65	-0.0017971	0.0029446
1178.13	0.0098192	0.0029531
1178.61	0.0036148	0.0029377
1179.1	-0.0041783	0.0030655
1179.58	0.0085517	0.0031921
1180.06	0.0083845	0.0029081
1180.54	-0.0051908	0.0028526
1181.02	0.0044839	0.0030748
1181.51	0.0136133	0.0030813
1181.99	-0.0020336	0.00301
1182.47	-0.0020729	0.0031223
1182.95	0.0156193	0.0032738
1183.44	0.0061658	0.0030345

Methanol 4.98 Mole % 10.8 Torr MS05AV5 MS05AD5

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1183.92	-0.0061889	0.0031952
1184.4	0.0104096	0.003218
1184.88	0.0143365	0.0030995
1185.36	-0.0035202	0.0030929
1185.85	0.0015484	0.0032095
1186.33	0.0167361	0.0031054
1186.81	0.0044041	0.0030239
1187.29	-0.0020072	0.0031482
1187.77	0.0131115	0.0031862
1188.26	0.0100215	0.0030467
1188.74	-0.00195	0.0031892
1189.22	0.0074719	0.003317
1189.7	0.0126992	0.0031396
1190.19	0.000012	0.0030991
1190.67	0.0040614	0.0032846
1191.15	0.0143773	0.0032194
1191.63	0.0026772	0.0030658
1192.11	0.0009375	0.0032449
1192.6	0.0154764	0.0033599
1193.08	0.0079148	0.0030309
1193.56	-0.0030659	0.003157
1194.04	0.012329	0.003267
1194.53	0.0157083	0.003181
1195.01	-0.0020281	0.0031039
1195.49	0.0057461	0.0032127
1195.97	0.0204161	0.0032774
1196.45	0.0044582	0.0031229
1196.94	-0.0013714	0.0031372
1197.42	0.0175903	0.0031997
1197.9	0.0150758	0.0031233
1198.38	-0.0017895	0.0030288
1198.86	0.0098518	0.0032414
1199.35	0.0190562	0.0030887
1199.83	0.0029501	0.0029563
1200.31	0.0034935	0.0031892
1200.79	0.0179489	0.0031552
1201.28	0.0095025	0.0030121
1201.76	0.0017286	0.003064
1202.24	0.0170854	0.0031162
1202.72	0.0142325	0.0029872
1203.2	0.0015887	0.0029871
1203.69	0.0118161	0.0031091
1204.17	0.0173798	0.0028935
1204.65	0.0023334	0.0029248
1205.13	0.0069362	0.0030563

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1205.62	0.0203698	0.0030191
1206.1	0.0070522	0.0028586
1206.58	0.0010667	0.0030129
1207.06	0.0188806	0.0030433
1207.54	0.0169664	0.0029027
1208.03	0.0000727	0.0028248
1208.51	0.012584	0.0029247
1208.99	0.0235669	0.0027254
1209.47	0.0041959	0.0027123
1209.95	0.0038114	0.0027693
1210.44	0.0206901	0.0027787
1210.92	0.0130892	0.0027008
1211.4	0.002453	0.0028421
1211.88	0.0173121	0.002806
1212.37	0.0208379	0.0025683
1212.85	0.0063718	0.0026372
1213.33	0.0116123	0.0027431
1213.81	0.0206689	0.0026395
1214.29	0.0106001	0.0024432
1214.78	0.0091714	0.0026558
1215.26	0.0190267	0.0026227
1215.74	0.0102346	0.0023571
1216.22	0.0039122	0.002531
1216.71	0.0168152	0.0026022
1217.19	0.014729	0.0024619
1217.67	0.0014293	0.0024342
1218.15	0.0130429	0.0024476
1218.63	0.0205562	0.0023905
1219.12	0.0031764	0.002326
1219.6	0.004994	0.0023246
1220.08	0.0221561	0.0022086
1220.56	0.0117769	0.0022367
1221.05	-0.0005411	0.0021681
1221.53	0.0169862	0.0023137
1222.01	0.0184656	0.0020925
1222.49	0.0022709	0.0021866
1222.97	0.0090327	0.0021929
1223.46	0.0204821	0.0021355
1223.94	0.0088632	0.0020397
1224.42	0.0057189	0.0022079
1224.9	0.0207342	0.0019821
1225.38	0.0173343	0.0019833
1225.87	0.0048891	0.0020526
1226.35	0.0144411	0.0020789
1226.83	0.0159899	0.0018833

Methanol 4.98 Mole % 10.8 Torr MS05AV5
MS05AD5

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1227.31	0.005438	0.0019444
1227.8	0.0115466	0.0020236
1228.28	0.0201694	0.0019494
1228.76	0.0070774	0.001842
1229.24	0.0051397	0.0018413
1229.72	0.0183518	0.0019013
1230.21	0.0080041	0.0018011
1230.69	0.0006278	0.0017533
1231.17	0.0147359	0.0018438
1231.65	0.0159302	0.0016849
1232.14	0.0022074	0.0017917
1232.62	0.0115284	0.0018063
1233.1	0.0223787	0.0017069
1233.58	0.0089667	0.0016001
1234.06	0.0044048	0.0017139
1234.55	0.0170471	0.0016678
1235.03	0.0133517	0.0014841
1235.51	0.0002067	0.001702
1235.99	0.009996	0.0016395
1236.47	0.0168261	0.0014622
1236.96	0.0060524	0.0015369
1237.44	0.0066118	0.0016342
1237.92	0.0167414	0.0014627
1238.4	0.011094	0.0014573
1238.89	0.0101341	0.0015624
1239.37	0.0184589	0.0016183
1239.85	0.0153007	0.0013403
1240.33	0.0069178	0.0014275
1240.81	0.0160817	0.0014913
1241.3	0.0156917	0.0014018
1241.78	0.0038489	0.001326
1242.26	0.0105775	0.0014277
1242.74	0.0201905	0.0014032
1243.23	0.0073732	0.001444
1243.71	0.0050777	0.0014384
1244.19	0.0200446	0.0013731
1244.67	0.0133397	0.0013285
1245.15	0.0014241	0.0013826
1245.64	0.0126788	0.0013575
1246.12	0.0183905	0.0012474
1246.6	0.0047336	0.0012806
1247.08	0.006679	0.0013364
1247.56	0.018527	0.0012464
1248.05	0.0111795	0.0011912
1248.53	0.0060948	0.001389

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1249.01	0.0171667	0.0012772
1249.49	0.0158992	0.001221
1249.98	0.0073826	0.0013523
1250.46	0.0128634	0.0013101
1250.94	0.0159718	0.0013193
1251.42	0.0077267	0.0012441
1251.9	0.0109909	0.0013678
1252.39	0.0162344	0.0011454
1252.87	0.0087865	0.00123
1253.35	0.0089689	0.0013697
1253.83	0.0179969	0.0013993
1254.32	0.0125535	0.0011941
1254.8	0.0058828	0.0013359
1255.28	0.0161713	0.0013385
1255.76	0.0177472	0.0011341
1256.24	0.0071896	0.0012469
1256.73	0.0119844	0.0014128
1257.21	0.0207508	0.0013437
1257.69	0.0119464	0.0012146
1258.17	0.0082988	0.0014185
1258.65	0.018439	0.0012714
1259.14	0.0161472	0.0011824
1259.62	0.0072745	0.0013038
1260.1	0.015072	0.0013301
1260.58	0.0213616	0.0011771
1261.07	0.0096713	0.0012859
1261.55	0.0107855	0.0013499
1262.03	0.0167648	0.0013024
1262.51	0.0125999	0.0012944
1262.99	0.0113794	0.0013893
1263.48	0.014664	0.0012565
1263.96	0.0135105	0.0011966
1264.44	0.0105683	0.0012966
1264.92	0.0148644	0.0013488
1265.41	0.0151125	0.0013792
1265.89	0.0099705	0.001359
1266.37	0.0133527	0.0013531
1266.85	0.0179954	0.0014392
1267.33	0.0102692	0.0013167
1267.82	0.0105207	0.001488
1268.3	0.0184219	0.0013596
1268.78	0.0152713	0.0013765
1269.26	0.0095976	0.0015015
1269.74	0.015829	0.0015483
1270.23	0.0192166	0.0014265

Methanol 4.98 Mole % 10.8 Torr MS05AV5 MS05AD5

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1270.71	0.0113254	0.0015326
1271.19	0.0109381	0.001527
1271.67	0.0189134	0.0013628
1272.16	0.0164987	0.0015223
1272.64	0.0100123	0.00151
1273.12	0.0133312	0.0015391
1273.6	0.0152474	0.0013825
1274.08	0.0105983	0.0016948
1274.57	0.0117547	0.001663
1275.05	0.0136698	0.0015023
1275.53	0.0114013	0.0014994
1276.01	0.0124777	0.0016961
1276.5	0.0138185	0.001599
1276.98	0.0116062	0.0017209
1277.46	0.0121957	0.0016905
1277.94	0.0141965	0.0018112
1278.42	0.0117594	0.0016117
1278.91	0.0104807	0.0018634
1279.39	0.0156001	0.0019498
1279.87	0.0143799	0.0016174
1280.35	0.0107899	0.0019761
1280.84	0.0132366	0.0018973
1281.32	0.0154383	0.0018078
1281.8	0.0130336	0.0017808
1282.28	0.0106124	0.0020583
1282.76	0.0153474	0.0019418
1283.25	0.0152495	0.0017872
1283.73	0.0130127	0.0021338
1284.21	0.0140534	0.0019738
1284.69	0.0148521	0.0018999
1285.17	0.0145309	0.0020974
1285.66	0.0130176	0.0021472
1286.14	0.0127145	0.0020119
1286.62	0.0143919	0.0021099
1287.1	0.0174878	0.002274
1287.59	0.0164493	0.0021382
1288.07	0.0123858	0.0021112
1288.55	0.0176975	0.0022425
1289.03	0.0192529	0.0022818
1289.51	0.0134433	0.0021961
1290	0.0138788	0.0023317
1290.48	0.0198835	0.0024633
1290.96	0.0174697	0.0023571
1291.44	0.0114896	0.0023202
1291.93	0.0171131	0.0024887

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1292.41	0.0210011	0.0023556
1292.89	0.0175652	0.0023363
1293.37	0.0177296	0.0025733
1293.85	0.0241078	0.0024549
1294.34	0.0193841	0.0023515
1294.82	0.0178551	0.0025207
1295.3	0.0187942	0.0026345
1295.78	0.0199056	0.0024326
1296.26	0.021343	0.0025261
1296.75	0.0201672	0.0028409
1297.23	0.0190989	0.0026077
1297.71	0.0193518	0.0026277
1298.19	0.022594	0.0027894
1298.68	0.0192529	0.0026919
1299.16	0.0179257	0.0026534
1299.64	0.0226467	0.0027781
1300.12	0.0230875	0.0027318
1300.6	0.0194696	0.0027887
1301.09	0.0189118	0.0026084
1301.57	0.0257987	0.0030241
1302.05	0.0230004	0.0028937
1302.53	0.0204053	0.002943
1303.02	0.0245871	0.0030759
1303.5	0.0250882	0.0029685
1303.98	0.0210684	0.002781
1304.46	0.0216098	0.0030586
1304.94	0.0262661	0.0031278
1305.43	0.0230689	0.002868
1305.91	0.0243682	0.0030271
1306.39	0.0270986	0.003207
1306.87	0.0234405	0.0029243
1307.35	0.0244178	0.002976
1307.84	0.0286242	0.003175
1308.32	0.029353	0.0032122
1308.8	0.0260309	0.0030258
1309.28	0.0308915	0.003377
1309.77	0.0288947	0.0032369
1310.25	0.0210138	0.0030161
1310.73	0.0242988	0.0031233
1311.21	0.031078	0.0033037
1311.69	0.0249805	0.0031874
1312.18	0.0254927	0.0030421
1312.66	0.0388851	0.0032963
1313.14	0.0295673	0.0032711
1313.62	0.024289	0.0030877

Methanol 4.98 Mole % 10.8 Torr MS05AV5
MS05AD5

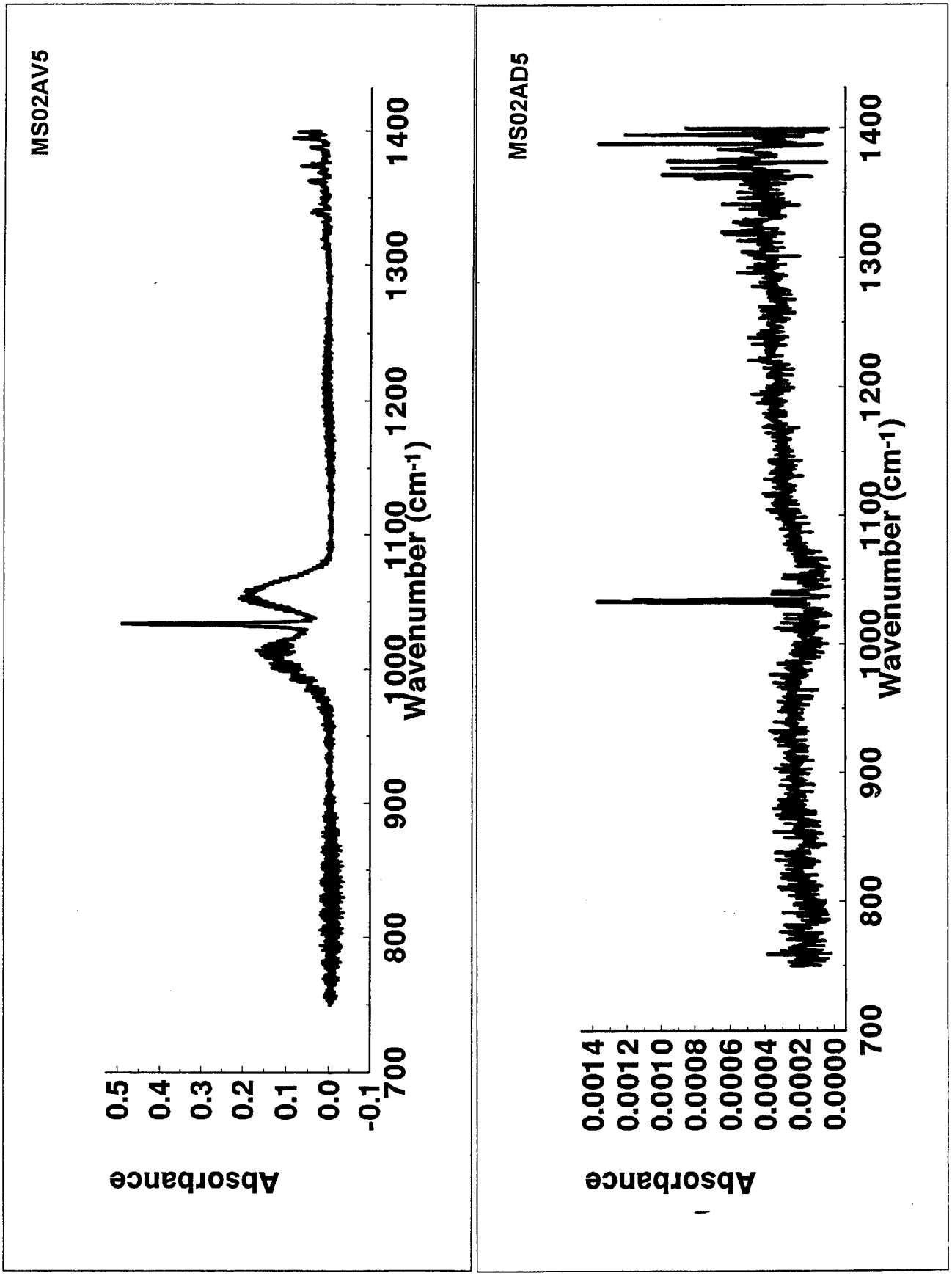
WN (cm-1)	AVE (A.U.)	AD (A.U.)
1314.11	0.0252964	0.0032518
1314.59	0.0343822	0.0031241
1315.07	0.0297594	0.0031789
1315.55	0.0258271	0.0033307
1316.03	0.0313608	0.0032906
1316.52	0.0313038	0.0031035
1317	0.0332319	0.0031676
1317.48	0.0355406	0.0034743
1317.96	0.0413889	0.0031944
1318.44	0.0335043	0.0030101
1318.93	0.0462959	0.0031285
1319.41	0.0369679	0.0033194
1319.89	0.0324895	0.0031077
1320.37	0.0407017	0.0032994
1320.86	0.0423147	0.0033611
1321.34	0.033201	0.0030675
1321.82	0.0363996	0.0030834
1322.3	0.0406211	0.0033475
1322.78	0.0312755	0.0032419
1323.27	0.0261101	0.0032038
1323.75	0.0367846	0.003199
1324.23	0.0405794	0.0032772
1324.71	0.0237775	0.0030903
1325.2	0.0265077	0.0032172
1325.68	0.0392704	0.0032188
1326.16	0.0306408	0.003214
1326.64	0.0229266	0.0031319
1327.12	0.0331462	0.0032215
1327.61	0.0338157	0.0031934
1328.09	0.0215264	0.0031204
1328.57	0.0271709	0.0031713
1329.05	0.0369366	0.0031202
1329.54	0.0287662	0.0030239
1330.02	0.0275976	0.0031443
1330.5	0.0379428	0.0032818
1330.98	0.0380645	0.0032054
1331.46	0.0381201	0.0032797
1331.95	0.0488762	0.0031095
1332.43	0.0399275	0.0029576
1332.91	0.0238364	0.0029512
1333.39	0.029513	0.0031106
1333.87	0.0312393	0.0032288
1334.36	0.0226208	0.0031123
1334.84	0.0250535	0.0031065
1335.32	0.0351587	0.0033816

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1335.8	0.0270159	0.0030882
1336.29	0.0273933	0.0027746
1336.77	0.0524161	0.0027069
1337.25	0.03522	0.0029166
1337.73	0.0273094	0.0028834
1338.21	0.0436876	0.0029424
1338.7	0.065965	0.0032046
1339.18	0.0450349	0.0029686
1339.66	0.0504864	0.0025792
1340.14	0.0633945	0.0023798
1340.63	0.0593636	0.002334
1341.11	0.0251523	0.0027753
1341.59	0.0346137	0.002627
1342.07	0.0349427	0.0027293
1342.55	0.0253921	0.0026284
1343.04	0.0318846	0.0025462
1343.52	0.0376613	0.0025408
1344	0.0308359	0.0024324
1344.48	0.038243	0.0026114
1344.96	0.0563894	0.0026609
1345.45	0.051224	0.0023916
1345.93	0.0408102	0.0022441
1346.41	0.0468757	0.0024658
1346.89	0.044728	0.0023241
1347.38	0.0377753	0.0023296
1347.86	0.0389579	0.0025276
1348.34	0.041658	0.0023976
1348.82	0.0290668	0.0023353
1349.3	0.0326229	0.0023375
1349.79	0.0438663	0.0023025
1350.27	0.0295535	0.0020006
1350.75	0.0204994	0.0021587
1351.23	0.0349953	0.0022915
1351.72	0.0346651	0.0022638
1352.2	0.0227416	0.0020596
1352.68	0.0307459	0.0021346
1353.16	0.0383491	0.0020895
1353.64	0.0304561	0.0021153
1354.13	0.0300355	0.0021536
1354.61	0.0413643	0.0018418
1355.09	0.0423903	0.0019846
1355.57	0.0278733	0.0020429
1356.05	0.035264	0.0020622
1356.54	0.0354303	0.0021251
1357.02	0.0305122	0.0021355

Methanol 4.98 Mole % 10.8 Torr MS05AV5 MS05AD5

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1357.5	0.0371403	0.0022119
1357.98	0.0414334	0.0018234
1358.47	0.0328792	0.001773
1358.95	0.033573	0.0017872
1359.43	0.043064	0.0020788
1359.91	0.0366789	0.0020241
1360.39	0.0379435	0.0018423
1360.88	0.0571553	0.0014319
1361.36	0.0682674	0.0017313
1361.84	0.032338	0.0019461
1362.32	0.0449265	0.0018679
1362.81	0.073403	0.0013761
1363.29	0.0710862	0.0014523
1363.77	0.0310334	0.0014175
1364.25	0.0406977	0.0011727
1364.73	0.034044	0.0014233
1365.22	0.020842	0.001633
1365.7	0.0336608	0.0017617
1366.18	0.0361267	0.0013122
1366.66	0.0218951	0.0012911
1367.14	0.0295982	0.00151
1367.63	0.0398706	0.0015747
1368.11	0.0293686	0.001382
1368.59	0.0408357	0.001159
1369.07	0.0450136	0.0015648
1369.56	0.0308787	0.001143
1370.04	0.0300534	0.001133
1370.52	0.0440327	0.0011871
1371	0.038567	0.0010706
1371.48	0.0267235	0.0010368
1371.97	0.040087	0.0012546
1372.45	0.0504638	0.0014137
1372.93	0.0336595	0.001297
1373.41	0.0465198	0.0011653
1373.9	0.0879528	0.0015679
1374.38	0.0416875	0.0012476
1374.86	0.0347564	0.000964
1375.34	0.0617954	0.0010784
1375.82	0.0378558	0.0009595
1376.31	0.020316	0.0008684
1376.79	0.0276516	0.0011257
1377.27	0.0377975	0.0010981
1377.75	0.0277586	0.0010823
1378.23	0.0325366	0.0010585
1378.72	0.0355405	0.0009554

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1379.2	0.032188	0.0009493
1379.68	0.0291973	0.0009739
1380.16	0.0346556	0.0009985
1380.65	0.0313204	0.000884
1381.13	0.0192401	0.0010844
1381.61	0.0273835	0.0012468
1382.09	0.0320704	0.0011765
1382.57	0.0196347	0.0010018
1383.06	0.0234346	0.0010933
1383.54	0.0332217	0.0010553
1384.02	0.0232683	0.000947
1384.5	0.0203564	0.0008334
1384.99	0.0373807	0.0010032
1385.47	0.0354486	0.0011797
1385.95	0.0240717	0.0011285
1386.43	0.047413	0.0016779
1386.91	0.05772	0.0012429
1387.4	0.0544476	0.0008262
1387.88	0.0591967	0.0019077
1388.36	0.0417031	0.001083
1388.84	0.0301484	0.0010938
1389.33	0.0200816	0.0016025
1389.81	0.0311896	0.0018851
1390.29	0.0311127	0.0014475
1390.77	0.019905	0.0011507
1391.25	0.0274476	0.0012667
1391.74	0.0343506	0.0009555
1392.22	0.0243958	0.0007671
1392.7	0.0259913	0.0013569
1393.18	0.0400967	0.001548
1393.66	0.0403887	0.0013751
1394.15	0.0550989	0.0007668
1394.63	0.102845	0.001485
1395.11	0.0517735	0.0013005
1395.59	0.0422399	0.0006757
1396.08	0.061514	0.0014823
1396.56	0.0385359	0.0016728
1397.04	0.0280335	0.0011753
1397.52	0.0370728	0.001494
1398	0.0631153	0.0024637
1398.49	0.0409914	0.001399
1398.97	0.0539059	0.0010411
1399.45	0.0883381	0.0019365
1399.93	0.0375603	0.0014461


MS02AV5
Absorbance
0.5
0.4
0.3
0.2
0.1
0.0
-0.1
700
800
900
1000
1100
1200
1300
1400
Wavenumber (cm-1)
MS02AD5
Absorbance
0.0014
0.0012
0.0010
0.0008
0.0006
0.0004
0.0002
0.0000
700
800
900
1000
1100
1200
1300
1400
Wavenumber (cm-1)

Methanol 2.52 Mole % 5.8 Torr MS02AV5
MS02AD5

WN (cm-1)	AVE (A.U.)	AD (A.U.)
749.927	-0.0028377	0.0002503
750.409	-0.0034977	0.0000798
750.891	-0.0054585	0.000147
751.373	-0.0069164	0.0001685
751.856	-0.0018203	0.0001929
752.338	-0.0000273	0.0001774
752.82	-0.011069	0.0002599
753.302	-0.0096653	0.0001459
753.785	0.0044675	0.0000559
754.267	-0.0002819	0.0001473
754.749	-0.0171967	0.0002263
755.231	-0.0073529	0.0000964
755.714	0.009671	0.0000351
756.196	-0.0055215	0.0001363
756.678	-0.0194889	0.0002127
757.16	-0.0002578	0.0000984
757.643	0.0095375	0.0001344
758.125	-0.0116387	0.0001546
758.607	-0.0143443	0.0002215
759.089	0.0058501	0.0003841
759.571	0.0021111	0.0000193
760.054	-0.0144677	0.000245
760.536	-0.0058228	0.0001851
761.018	0.0039805	0.0002384
761.5	-0.0067306	0.0003063
761.983	-0.0085396	0.0001725
762.465	-0.0002852	0.0000666
762.947	-0.0069586	0.0001893
763.429	-0.0095636	0.000173
763.912	0.0006788	0.0002564
764.394	-0.0044702	0.0002005
764.876	-0.0162497	0.0002403
765.358	-0.0024722	0.0002353
765.841	0.0059971	0.0000617
766.323	-0.014404	0.0001536
766.805	-0.0171675	0.0002049
767.287	0.0081755	0.0001797
767.77	0.0031669	0.0001199
768.252	-0.0231288	0.0001383
768.734	-0.0092757	0.0001304
769.216	0.013018	0.0000504
769.698	-0.0085306	0.0000575
770.181	-0.023124	0.0002694
770.663	0.0027344	0.0001407
771.145	0.0093633	0.0002194
771.627	-0.0171868	0.0002535
772.11	-0.0130936	0.0001294
772.592	0.0067544	0.0000962
773.074	-0.005062	0.0002145
773.556	-0.0158622	0.0001052
774.039	-0.0014852	0.0001921
774.521	-0.001192	0.0002469
775.003	-0.0147387	0.0002616
775.485	-0.0044703	0.0000691
775.968	0.0021285	0.0001691
776.45	-0.0156027	0.0003104
776.932	-0.0114124	0.0002314
777.414	0.0083219	0.0001776
777.897	-0.0059708	0.0002272
778.379	-0.023682	0.0002077
778.861	0.0014042	0.000206
779.343	0.011246	0.0001347
779.825	-0.0211975	0.0002711
780.308	-0.0186191	0.000168
780.79	0.0155312	0.0001526
781.272	0.0006529	0.000146
781.754	-0.0288241	0.0002834
782.237	-0.0048914	0.0000989
782.719	0.0149433	0.0001338
783.201	-0.0162703	0.0001049
783.683	-0.0221002	0.000157
784.166	0.0065059	0.0000491
784.648	0.0008771	0.0001396
785.13	-0.0221959	0.0001784
785.612	-0.0060662	0.0001872
786.095	0.0048921	0.0000294
786.577	-0.0157631	0.0001331
787.059	-0.0127938	0.0001201
787.541	0.004942	0.000114
788.024	-0.0114131	0.0000799
788.506	-0.0196921	0.0002104
788.988	0.0037927	0.0001191
789.47	0.0006196	0.0000958
789.952	-0.0259903	0.0000377
790.435	-0.00802	0.0001619
790.917	0.0147938	0.0000505
791.399	-0.0160893	0.0002925
791.881	-0.0279761	0.0000447
792.364	0.0100372	0.0001367
792.846	0.0074151	0.0001162

Methanol 2.52 Mole % 5.8 Torr MS02AV5 MS02AD5

WN (cm-1)	AVE (A.U.)	AD (A.U.)
793.328	-0.030694	0.0000499
793.81	-0.0127113	0.0000727
794.293	0.019243	0.0001984
794.775	-0.0106577	0.0001342
795.257	-0.028323	0.0001677
795.739	0.0056759	0.0001112
796.222	0.0082586	0.0001968
796.704	-0.0243742	0.0000614
797.186	-0.0122135	0.0002299
797.668	0.0092356	0.0002063
798.151	-0.0131027	0.0002289
798.633	-0.0194503	0.000053
799.115	0.0051454	0.0002197
799.597	-0.0035787	0.0001451
800.08	-0.0236066	0.0001721
800.562	-0.0007672	0.0000498
801.044	0.0067816	0.000147
801.526	-0.0233919	0.000101
802.008	-0.0153731	0.0001164
802.491	0.015878	0.0002173
802.973	-0.0091362	0.0001174
803.455	-0.0320165	0.0001236
803.937	0.0052868	0.0001361
804.42	0.0147174	0.0002537
804.902	-0.0289133	0.0001502
805.384	-0.0198235	0.0000933
805.866	0.0204796	0.0001774
806.349	-0.0046531	0.0001805
806.831	-0.0328018	0.0002051
807.313	0.0018289	0.0002214
807.795	0.0138447	0.000225
808.278	-0.0238568	0.000105
808.76	-0.0189617	0.0000986
809.242	0.0113882	0.0003058
809.724	-0.0083162	0.0000968
810.206	-0.0256071	0.0001144
810.689	0.0015034	0.0001048
811.171	0.0015124	0.0003167
811.653	-0.025285	0.0001698
812.135	-0.0067416	0.0000732
812.618	0.0095984	0.0000985
813.1	-0.0203848	0.0002592
813.582	-0.0205546	0.0001843
814.064	0.0136578	0.0001923
814.547	-0.0039223	0.0001245

WN (cm-1)	AVE (A.U.)	AD (A.U.)
815.029	-0.0332967	0.0002036
815.511	0.0006388	0.0001102
815.993	0.0174475	0.0001909
816.476	-0.0261927	0.0002655
816.958	-0.0244212	0.0002256
817.44	0.0195625	0.0001543
817.922	-0.0006152	0.0003026
818.405	-0.0359174	0.0002214
818.887	-0.0021458	0.0001433
819.369	0.018	0.0001699
819.851	-0.022628	0.0002398
820.334	-0.0236721	0.0001006
820.816	0.0128821	0.0002887
821.298	-0.0041545	0.0003026
821.78	-0.0281556	0.000213
822.262	-0.0011934	0.0001986
822.745	0.0053746	0.0001794
823.227	-0.0242065	0.0002342
823.709	-0.0123008	0.0002399
824.191	0.0101027	0.0002196
824.674	-0.0158522	0.000276
825.156	-0.0231815	0.0001851
825.638	0.0112932	0.0002257
826.12	-0.000327	0.0001267
826.603	-0.031969	0.0001296
827.085	-0.0021884	0.0001692
827.567	0.018303	0.0001855
828.049	-0.02368	0.0002804
828.532	-0.0266087	0.0001162
829.014	0.0183708	0.0002564
829.496	0.0009867	0.0001971
829.978	-0.0364264	0.0001218
830.461	-0.0043255	0.0002556
830.943	0.018204	0.0000847
831.425	-0.0222401	0.0002353
831.907	-0.0263685	0.000333
832.39	0.0120364	0.0002156
832.872	-0.0021917	0.0001173
833.354	-0.030253	0.0001961
833.836	-0.0039509	0.0001557
834.318	0.0074465	0.0002412
834.801	-0.0230615	0.000206
835.283	-0.0152693	0.0002808
835.765	0.0095268	0.000172
836.247	-0.0132465	0.0001761

Methanol 2.52 Mole % 5.8 Torr MS02AV5
MS02AD5

WN (cm-1)	AVE (A.U.)	AD (A.U.)
836.73	-0.0239819	0.0001922
837.212	0.0085058	0.0001408
837.694	-0.000086	0.0003368
838.176	-0.0306907	0.000186
838.659	-0.0042213	0.0002403
839.141	0.0162528	0.0001439
839.623	-0.0221642	0.0002017
840.105	-0.0251079	0.0002104
840.588	0.0179243	0.0002034
841.07	0.0004686	0.0001945
841.552	-0.0357801	0.0001386
842.034	-0.0039373	0.0000893
842.516	0.0178288	0.0001935
842.999	-0.0226495	0.0001886
843.481	-0.026939	0.0001971
843.963	0.0127418	0.0000479
844.445	-0.0011693	0.0001334
844.928	-0.0306483	0.0000911
845.41	-0.0036031	0.0001768
845.892	0.0086545	0.0001324
846.374	-0.0212255	0.0001461
846.857	-0.0162411	0.0001162
847.339	0.0087949	0.0001395
847.821	-0.0112034	0.0001749
848.303	-0.0223329	0.0001407
848.786	0.0061848	0.0000981
849.268	0.0000849	0.0002841
849.75	-0.0270621	0.0001435
850.232	-0.0028298	0.0002069
850.715	0.0138067	0.0001092
851.197	-0.0211783	0.0001637
851.679	-0.0219606	0.0001808
852.161	0.016869	0.0002257
852.644	-0.0019221	0.0000698
853.126	-0.0335326	0.0000785
853.608	-0.0013362	0.0001771
854.09	0.0164542	0.0003428
854.572	-0.0233446	0.0001109
855.055	-0.024207	0.0001738
855.537	0.0142369	0.0001971
856.019	-0.0024186	0.0002345
856.501	-0.0302377	0.0002065
856.984	-0.0027765	0.0001813
857.466	0.0081888	0.0002295
857.948	-0.0204996	0.0002273

WN (cm-1)	AVE (A.U.)	AD (A.U.)
858.43	-0.0155461	0.0000832
858.913	0.008045	0.0001033
859.395	-0.0094255	0.0001725
859.877	-0.0197223	0.00019
860.359	0.0053312	0.000281
860.842	-0.0011159	0.0001492
861.324	-0.0230296	0.0001717
861.806	-0.000969	0.0000844
862.288	0.0102731	0.0001737
862.771	-0.020567	0.0001118
863.253	-0.0163815	0.000206
863.735	0.0158595	0.0001492
864.217	-0.0051936	0.0003111
864.699	-0.0295967	0.0002609
865.182	0.0036884	0.0002033
865.664	0.012977	0.0002849
866.146	-0.0235958	0.00018
866.628	-0.0181173	0.0001967
867.111	0.0153655	0.000333
867.593	-0.0050163	0.0001081
868.075	-0.0277724	0.0002503
868.557	-0.0002181	0.0001937
869.04	0.0080688	0.0002973
869.522	-0.0199851	0.0001071
870.004	-0.0131456	0.0002652
870.486	0.0078508	0.000186
870.969	-0.009105	0.000155
871.451	-0.0173014	0.0001795
871.933	0.0046576	0.0003478
872.415	-0.0020213	0.0002136
872.898	-0.0180301	0.0002022
873.38	0.0019766	0.0001768
873.862	0.0060963	0.0002353
874.344	-0.0182895	0.0003202
874.827	-0.0087971	0.0001683
875.309	0.0140578	0.0001768
875.791	-0.0085969	0.0001943
876.273	-0.0229179	0.000186
876.756	0.0082188	0.0002843
877.238	0.0075052	0.0003078
877.72	-0.0233845	0.0002475
878.202	-0.011382	0.000158
878.684	0.0146704	0.0003167
879.167	-0.0079239	0.0002059
879.649	-0.0234601	0.0002304

Methanol 2.52 Mole % 5.8 Torr MS02AV5
MS02AD5

WN (cm-1)	AVE (A.U.)	AD (A.U.)
880.131	0.0040366	0.0002537
880.613	0.0062359	0.0002658
881.096	-0.0191237	0.0001663
881.578	-0.0093415	0.0002442
882.06	0.0070105	0.0002087
882.542	-0.0086769	0.0002106
883.025	-0.0132642	0.0001705
883.507	0.0038515	0.0002791
883.989	-0.0035365	0.0001783
884.471	-0.0137755	0.0002213
884.954	0.0017239	0.0002138
885.436	0.0016158	0.0001256
885.918	-0.0149742	0.0002078
886.4	-0.0028656	0.0002535
886.882	0.0097465	0.000258
887.365	-0.0112288	0.0002674
887.847	-0.0150012	0.0002078
888.329	0.0102123	0.0002099
888.811	0.0013539	0.0002011
889.294	-0.0208601	0.0002085
889.776	-0.0035778	0.0002092
890.258	0.0118281	0.0003094
890.74	-0.0112221	0.0001182
891.223	-0.0174854	0.0001299
891.705	0.0068387	0.0002326
892.187	0.002216	0.0002337
892.669	-0.0175165	0.0002241
893.152	-0.0053083	0.0002163
893.634	0.0062253	0.0002474
894.116	-0.0081196	0.0001645
894.598	-0.0099667	0.0002949
895.081	0.0021186	0.0001777
895.563	-0.0030349	0.0002184
896.045	-0.008442	0.000183
896.527	0.0012452	0.0002648
897.009	-0.0015537	0.0002707
897.492	-0.0091521	0.0002365
897.974	0.0013328	0.0002093
898.456	0.0034924	0.0002103
898.938	-0.0108541	0.0002008
899.421	-0.0048759	0.0001462
899.903	0.009341	0.0001972
900.385	-0.0042394	0.000311
900.867	-0.0148344	0.0001916
901.35	0.0027454	0.0002715

WN (cm-1)	AVE (A.U.)	AD (A.U.)
901.832	0.0063765	0.000178
902.314	-0.0128801	0.0001764
902.796	-0.0100941	0.0001343
903.279	0.007388	0.0003386
903.761	-0.0022667	0.0002343
904.243	-0.0143741	0.0002408
904.725	-0.0019112	0.0002077
905.208	0.0038192	0.0002236
905.69	-0.0077396	0.0001978
906.172	-0.0076441	0.0003009
906.654	0.0006788	0.0001903
907.137	-0.0019904	0.000229
907.619	-0.004919	0.0001967
908.101	-0.0010158	0.0002433
908.583	-0.0031708	0.000178
909.066	-0.0036787	0.0002527
909.548	0.0013514	0.0001234
910.03	-0.0027238	0.0002664
910.512	-0.0078299	0.0001737
910.994	0.0010433	0.000243
911.477	0.0035314	0.0002824
911.959	-0.0077369	0.0002417
912.441	-0.007082	0.0001562
912.923	0.0053575	0.0002633
913.406	-0.0005888	0.0002671
913.888	-0.0110254	0.000225
914.37	-0.0034312	0.0002329
914.852	0.0040491	0.0002742
915.335	-0.0053152	0.0002834
915.817	-0.0092659	0.0002544
916.299	-0.0000183	0.0002646
916.781	0.0009672	0.0001557
917.263	-0.0060084	0.0002527
917.746	-0.0058127	0.0002247
918.228	-0.0006709	0.0001866
918.71	-0.0003666	0.0001618
919.192	-0.0030614	0.0002048
919.675	-0.0042691	0.0002442
920.157	-0.0019952	0.0002487
920.639	0.0019409	0.000155
921.121	-0.001414	0.0003163
921.604	-0.0055897	0.0002103
922.086	-0.0008155	0.0001701
922.568	0.0030983	0.0002415
923.05	-0.0039234	0.0002219

Methanol 2.52 Mole % 5.8 Torr MS02AV5
MS02AD5

WN (cm-1)	AVE (A.U.)	AD (A.U.)
923.533	-0.0068439	0.0002536
924.015	0.000911	0.0003197
924.497	0.0015024	0.0002388
924.979	-0.0055731	0.0001721
925.462	-0.0054435	0.0001641
925.944	0.0004252	0.0003383
926.426	-0.0008541	0.0002981
926.908	-0.0049998	0.0002312
927.391	-0.0047172	0.0002574
927.873	-0.0013923	0.0003124
928.355	-0.0010887	0.0002249
928.837	-0.0043423	0.0002268
929.319	-0.0060498	0.0002986
929.802	-0.0014062	0.0002975
930.284	0.001533	0.0001629
930.766	-0.0042953	0.0003509
931.248	-0.0071103	0.0001658
931.731	0.0018796	0.0002077
932.213	0.0036388	0.0001541
932.695	-0.0070464	0.0003679
933.177	-0.0053862	0.000239
933.66	0.0060193	0.000249
934.142	0.000119	0.0002483
934.624	-0.0089837	0.0002192
935.106	-0.0010733	0.0001658
935.589	0.0047897	0.0002159
936.071	-0.0051693	0.0002265
936.553	-0.0067092	0.0002596
937.035	0.0009835	0.0002198
937.518	-0.0008784	0.0002779
938	-0.005446	0.0002468
938.482	-0.0020275	0.0002052
938.964	-0.0017523	0.0002462
939.447	-0.0038968	0.0003395
939.929	-0.0011264	0.0002228
940.411	-0.0022572	0.0002484
940.893	-0.0073937	0.00027
941.375	-0.0006159	0.0002759
941.858	0.0033074	0.0001815
942.34	-0.0076736	0.0002701
942.822	-0.0070706	0.0001885
943.304	0.0064158	0.0002563
943.787	0.0008995	0.000197
944.269	-0.0117864	0.0002023
944.751	-0.0003995	0.000259

WN (cm-1)	AVE (A.U.)	AD (A.U.)
945.233	0.0090203	0.0002009
945.716	-0.0073043	0.0002331
946.198	-0.0091326	0.000185
946.68	0.0076755	0.0001836
947.162	0.0031302	0.0002432
947.645	-0.011252	0.0003164
948.127	-0.0009525	0.0002467
948.609	0.0066098	0.0002878
949.091	-0.0064649	0.0002998
949.573	-0.0059715	0.0001762
950.056	0.0034835	0.0002237
950.538	-0.002947	0.0002028
951.02	-0.0057978	0.0002957
951.502	0.0029655	0.0002168
951.985	-0.0015143	0.0002744
952.467	-0.0086293	0.0002779
952.949	0.0021974	0.0001477
953.431	0.0047303	0.0002001
953.914	-0.0100212	0.0002858
954.396	-0.00306	0.0002556
954.878	0.0109076	0.0002285
955.36	-0.0035696	0.0003211
955.843	-0.0114208	0.0001922
956.325	0.0082999	0.0002053
956.807	0.0078635	0.0002623
957.289	-0.0140237	0.0002019
957.772	-0.002047	0.0001284
958.254	0.0148531	0.0002622
958.736	-0.0037733	0.0002782
959.218	-0.0110651	0.0002863
959.7	0.0094137	0.0001252
960.183	0.0074891	0.0002433
960.665	-0.0102433	0.0002177
961.147	0.0002959	0.0002257
961.629	0.009399	0.0002679
962.112	-0.0053742	0.0002552
962.594	-0.0026126	0.0002229
963.076	0.0095696	0.0002354
963.558	-0.0014323	0.0002375
964.041	-0.0059978	0.0002617
964.523	0.0096778	0.0000925
965.005	0.005954	0.0002947
965.487	-0.0090889	0.0002699
965.97	0.0054363	0.0002331
966.452	0.0140191	0.0002105

Methanol 2.52 Mole % 5.8 Torr MS02AV5
MS02AD5

WN (cm-1)	AVE (A.U.)	AD (A.U.)
966.934	-0.0051327	0.0003195
967.416	-0.001785	0.0002022
967.899	0.0195711	0.0002293
968.381	0.0053204	0.0002552
968.863	-0.0088055	0.0002254
969.345	0.0155911	0.0001977
969.828	0.020171	0.0003159
970.31	-0.0088866	0.0003437
970.792	0.0004556	0.0001955
971.274	0.0255893	0.0002432
971.757	0.0080696	0.0002728
972.239	-0.0063618	0.0002247
972.721	0.0149305	0.0002
973.203	0.0175425	0.0002097
973.685	0.0018025	0.0003014
974.168	0.0109305	0.0002336
974.65	0.017348	0.0001664
975.132	0.003388	0.0002082
975.614	0.0104507	0.0001958
976.097	0.027744	0.0001566
976.579	0.0085615	0.0003665
977.061	0.0008722	0.0001793
977.543	0.0272244	0.0001656
978.026	0.0294896	0.0002446
978.508	0.0026436	0.0001909
978.99	0.015271	0.0001571
979.472	0.0358927	0.000129
979.955	0.018198	0.0002624
980.437	0.015289	0.0002096
980.919	0.0330107	0.000176
981.401	0.0256425	0.0002776
981.884	0.0122456	0.0001847
982.366	0.0392611	0.0002049
982.848	0.0384785	0.0002462
983.33	0.0115255	0.0002202
983.812	0.0242189	0.0002215
984.295	0.0549329	0.000183
984.777	0.0319046	0.0003208
985.259	0.0107177	0.0001333
985.741	0.0419142	0.0001773
986.224	0.0521326	0.0001823
986.706	0.0318203	0.0002736
987.188	0.0278869	0.0002123
987.67	0.0501211	0.0001948
988.153	0.0413104	0.0001895

WN (cm-1)	AVE (A.U.)	AD (A.U.)
988.635	0.0478275	0.0001116
989.117	0.0480273	0.0001714
989.599	0.0415458	0.0001242
990.082	0.0408697	0.0000809
990.564	0.07381	0.0002288
991.046	0.0569142	0.0001868
991.528	0.0313733	0.0001949
992.01	0.0594921	0.0001068
992.493	0.0902266	0.0002472
992.975	0.0548408	0.0002117
993.457	0.0371341	0.0000617
993.939	0.0820115	0.0000936
994.422	0.085612	0.0002366
994.904	0.0602704	0.0002302
995.386	0.0586145	0.000103
995.868	0.0863097	0.0001621
996.351	0.0739706	0.0001477
996.833	0.0837469	0.0002024
997.315	0.0761805	0.0002192
997.797	0.0735099	0.0000796
998.28	0.0799724	0.000088
998.762	0.115016	0.0001399
999.244	0.0776973	0.0002333
999.726	0.0645746	0.0000794
1000.2	0.10409	0.0000383
1000.69	0.132746	0.0001129
1001.17	0.0692675	0.0002209
1001.65	0.0758003	0.0000735
1002.13	0.12855	0.0001128
1002.62	0.129668	0.0001562
1003.1	0.0696134	0.0001797
1003.58	0.103342	0.0001224
1004.06	0.135109	0.0000733
1004.54	0.121499	0.0001284
1005.03	0.0874118	0.000116
1005.51	0.119455	0.0001957
1005.99	0.123141	0.0001747
1006.47	0.128949	0.0002028
1006.96	0.107985	0.0001432
1007.44	0.117747	0.0001327
1007.92	0.118333	0.0001179
1008.4	0.148227	0.0001919
1008.88	0.107503	0.0001443
1009.37	0.110298	0.0002246
1009.85	0.133436	0.0001089

Methanol 2.52 Mole % 5.8 Torr MS02AV5
MS02AD5

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1010.33	0.157206	0.0003008
1010.81	0.0904377	0.0000967
1011.3	0.115178	0.0002267
1011.78	0.159772	0.0001074
1012.26	0.142348	0.000334
1012.74	0.0812158	0.0000819
1013.22	0.133253	0.0000326
1013.71	0.168774	0.00016
1014.19	0.110017	0.000228
1014.67	0.0955438	0.0001984
1015.15	0.150208	0.0001527
1015.64	0.153358	0.0000907
1016.12	0.086295	0.0003011
1016.6	0.125566	0.00009
1017.08	0.148701	0.0000881
1017.56	0.12498	0.000121
1018.05	0.0859001	0.0001545
1018.53	0.139801	0.0001961
1019.01	0.124539	0.0001308
1019.49	0.0973882	0.0002811
1019.98	0.0972479	0.0001613
1020.46	0.120417	0.0000921
1020.94	0.105439	0.0001393
1021.42	0.081463	0.0001988
1021.9	0.104231	0.0000149
1022.39	0.0898033	0.0000297
1022.87	0.0851624	0.0002844
1023.35	0.0722015	0.0000294
1023.83	0.0813821	0.0000441
1024.32	0.0754524	0.0001135
1024.8	0.0788635	0.0000885
1025.28	0.0679984	0.0001677
1025.76	0.057353	0.0001179
1026.25	0.0723468	0.0000712
1026.73	0.0638749	0.0001389
1027.21	0.0590534	0.000065
1027.69	0.0618895	0.0001427
1028.17	0.073745	0.0001849
1028.66	0.0584725	0.0001704
1029.14	0.0533054	0.0001784
1029.62	0.0817483	0.0003376
1030.1	0.0917109	0.0002327
1030.58	0.0896138	0.0001413
1031.07	0.124259	0.0001422
1031.55	0.182822	0.0001985

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1032.03	0.210003	0.0004006
1032.51	0.277622	0.0008091
1033	0.411234	0.0013686
1033.48	0.488497	0.0001651
1033.96	0.375736	0.0006932
1034.44	0.206184	0.0011576
1034.92	0.0830021	0.0005262
1035.41	0.0433189	0.000081
1035.89	0.0469919	0.0001103
1036.37	0.062404	0.000116
1036.85	0.0420708	0.0000338
1037.34	0.0334845	0.0001015
1037.82	0.050393	0.0000949
1038.3	0.0499436	0.0001486
1038.78	0.0386441	0.0003563
1039.26	0.0484119	0.0002707
1039.75	0.0609803	0.0001633
1040.23	0.0503593	0.0001502
1040.71	0.057212	0.0003502
1041.19	0.0785748	0.0002046
1041.67	0.078444	0.0001859
1042.16	0.0680877	0.00013
1042.64	0.0815094	0.0001247
1043.12	0.106064	0.0000864
1043.6	0.0904857	0.0000677
1044.09	0.0837542	0.0000553
1044.57	0.125596	0.0000198
1045.05	0.118558	0.0001708
1045.53	0.0926045	0.0001252
1046.01	0.136714	0.0001608
1046.5	0.148702	0.0000658
1046.98	0.111738	0.0001091
1047.46	0.14465	0.0002057
1047.94	0.166695	0.0001738
1048.43	0.128365	0.0001405
1048.91	0.151637	0.0001466
1049.39	0.185505	0.0000829
1049.87	0.14288	0.0000311
1050.35	0.157097	0.0002374
1050.84	0.201488	0.0002928
1051.32	0.15794	0.0002283
1051.8	0.158896	0.0001834
1052.28	0.208472	0.0001361
1052.77	0.171196	0.000059
1053.25	0.163688	0.0001348

Methanol 2.52 Mole % 5.8 Torr MS02AV5
MS02AD5

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1053.73	0.203716	0.0002849
1054.21	0.177855	0.0000592
1054.69	0.175147	0.0001894
1055.18	0.192251	0.000186
1055.66	0.176193	0.0001111
1056.14	0.188381	0.0000514
1056.62	0.17937	0.0001371
1057.1	0.169817	0.0000951
1057.59	0.195174	0.0000669
1058.07	0.166358	0.0000916
1058.55	0.16122	0.0000975
1059.03	0.191523	0.0001002
1059.52	0.160511	0.0000241
1060	0.152852	0.0000639
1060.48	0.172205	0.0002128
1060.96	0.161283	0.0000983
1061.44	0.14961	0.0000676
1061.93	0.144149	0.0001114
1062.41	0.149441	0.0000858
1062.89	0.142673	0.0002061
1063.37	0.131205	0.0001382
1063.86	0.13905	0.0001503
1064.34	0.125071	0.0002145
1064.82	0.114446	0.0002164
1065.3	0.127451	0.0000401
1065.78	0.116715	0.0000639
1066.27	0.0953637	0.0000532
1066.75	0.0967801	0.0001256
1067.23	0.112882	0.0002219
1067.71	0.093849	0.000159
1068.19	0.0748792	0.0001649
1068.68	0.0921688	0.0002028
1069.16	0.0832168	0.000199
1069.64	0.0644481	0.0002354
1070.12	0.0714556	0.0001166
1070.61	0.0711915	0.0002225
1071.09	0.0601171	0.0001809
1071.57	0.0507293	0.000076
1072.05	0.0582765	0.0001363
1072.53	0.0504479	0.0001385
1073.02	0.041599	0.0002595
1073.5	0.047973	0.0001584
1073.98	0.0409998	0.0002497
1074.46	0.0340246	0.0002587
1074.95	0.0312274	0.000257

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1075.43	0.0377375	0.0001597
1075.91	0.016831	0.0001939
1076.39	0.0237112	0.0001846
1076.87	0.0275147	0.0002282
1077.36	0.0192397	0.0002835
1077.84	0.0074733	0.0002776
1078.32	0.0208878	0.0001607
1078.8	0.0178692	0.000242
1079.28	0.0036279	0.0002248
1079.77	0.006984	0.0002684
1080.25	0.0179005	0.0001883
1080.73	0.0057109	0.0002111
1081.21	-0.00197	0.0002146
1081.7	0.0089962	0.0001904
1082.18	0.0081535	0.0002488
1082.66	-0.0033133	0.0001922
1083.14	0.0002439	0.0001968
1083.62	0.0051215	0.0002802
1084.11	-0.001317	0.0002249
1084.59	-0.0023766	0.0001991
1085.07	0.0013886	0.0002565
1085.55	-0.0014581	0.000249
1086.04	-0.0035666	0.00025
1086.52	0.0006837	0.0002002
1087	-0.0021394	0.0001255
1087.48	-0.0057309	0.0002326
1087.96	0.0004098	0.0002268
1088.45	0.0005627	0.000257
1088.93	-0.0070803	0.000205
1089.41	-0.0037127	0.0003047
1089.89	0.0029092	0.0001941
1090.37	-0.0049953	0.0001983
1090.86	-0.009406	0.0002568
1091.34	0.0003237	0.0001896
1091.82	0.0006996	0.0002663
1092.3	-0.0086709	0.0002324
1092.79	-0.0052547	0.0002872
1093.27	0.0029266	0.0002848
1093.75	-0.002709	0.0001448
1094.23	-0.0077594	0.0002253
1094.71	-0.0023057	0.00025
1095.2	-0.0009718	0.0002929
1095.68	-0.0066843	0.0002488
1096.16	-0.0062474	0.0002912
1096.64	-0.002961	0.0002914

Methanol 2.52 Mole % 5.8 Torr MS02AV5 MS02AD5

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1097.13	-0.0035466	0.000226
1097.61	-0.0043635	0.0003274
1098.09	-0.0050633	0.000229
1098.57	-0.0054905	0.0001599
1099.05	-0.0030852	0.0002728
1099.54	-0.0030972	0.0002922
1100.02	-0.0066594	0.0002288
1100.5	-0.0052493	0.0003143
1100.98	-0.0013957	0.0002457
1101.46	-0.0038011	0.000283
1101.95	-0.0077754	0.0001949
1102.43	-0.0039142	0.0003593
1102.91	-0.0009399	0.0002484
1103.39	-0.0058623	0.0003019
1103.88	-0.0077152	0.0002011
1104.36	-0.0030433	0.0003824
1104.84	-0.0026717	0.0002093
1105.32	-0.0073466	0.0003315
1105.8	-0.0066536	0.000266
1106.29	-0.0019823	0.0002838
1106.77	-0.0032408	0.0002658
1107.25	-0.0071065	0.0003304
1107.73	-0.0059438	0.0003155
1108.22	-0.0026142	0.0003488
1108.7	-0.0033149	0.0002048
1109.18	-0.0071813	0.0002479
1109.66	-0.0062933	0.0003525
1110.14	-0.0021457	0.000266
1110.63	-0.0041867	0.0003031
1111.11	-0.0075896	0.0002698
1111.59	-0.0041321	0.0002157
1112.07	-0.0007457	0.0003367
1112.56	-0.0053903	0.0003231
1113.04	-0.0070819	0.0002894
1113.52	-0.0026756	0.000304
1114	-0.0008415	0.0003056
1114.48	-0.0045599	0.0002435
1114.97	-0.0052334	0.0003886
1115.45	-0.0028063	0.0003156
1115.93	-0.0039809	0.0003005
1116.41	-0.005779	0.0002699
1116.89	-0.0058871	0.0002627
1117.38	-0.0055656	0.0004033
1117.86	-0.0038075	0.0003512
1118.34	-0.0049863	0.0002452
1118.82	-0.0079592	0.0002669
1119.31	-0.0051103	0.000262
1119.79	-0.0019017	0.0002256
1120.27	-0.0063462	0.0002293
1120.75	-0.0082111	0.000332
1121.23	-0.0021026	0.0002427
1121.72	-0.0013248	0.0003146
1122.2	-0.0087799	0.0003444
1122.68	-0.0068045	0.0002395
1123.16	0.0003768	0.0002196
1123.65	-0.0037671	0.0003195
1124.13	-0.0093485	0.0002536
1124.61	-0.0029246	0.000247
1125.09	-0.0005193	0.0003251
1125.57	-0.0072719	0.0002973
1126.06	-0.0070328	0.0002772
1126.54	-0.0015947	0.0003482
1127.02	-0.0046098	0.0002812
1127.5	-0.0070598	0.0002665
1127.98	-0.0038025	0.0002826
1128.47	-0.0043683	0.0003953
1128.95	-0.0056624	0.0003098
1129.43	-0.0032682	0.0002418
1129.91	-0.0050619	0.000336
1130.4	-0.0072409	0.0002475
1130.88	-0.0027392	0.0001805
1131.36	-0.002147	0.0003004
1131.84	-0.0085954	0.0002897
1132.32	-0.0064825	0.0002383
1132.81	0.0008664	0.000367
1133.29	-0.0054232	0.0002807
1133.77	-0.0107152	0.0003008
1134.25	-0.0003444	0.0002473
1134.74	0.0013683	0.0003558
1135.22	-0.0093581	0.0002512
1135.7	-0.0051074	0.0003088
1136.18	0.0046877	0.0002243
1136.66	-0.0044605	0.0003329
1137.15	-0.0099842	0.0002366
1137.63	-0.0000522	0.0003237
1138.11	-0.0000641	0.0002521
1138.59	-0.0078956	0.0003241
1139.07	-0.0047572	0.0002156
1139.56	-0.000124	0.0003241
1140.04	-0.0051457	0.0003032

Methanol 2.52 Mole % 5.8 Torr MS02AV5
MS02AD5

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1140.52	-0.0060311	0.0003544
1141	-0.0008639	0.0002368
1141.49	-0.0030753	0.0003688
1141.97	-0.0057453	0.0002456
1142.45	-0.0006374	0.0003704
1142.93	-0.0039367	0.0001881
1143.41	-0.0085261	0.0003693
1143.9	-0.0007033	0.0003157
1144.38	0.0008095	0.0003088
1144.86	-0.0097095	0.0002783
1145.34	-0.0054182	0.0002768
1145.83	0.0042322	0.0002283
1146.31	-0.0057733	0.0002653
1146.79	-0.0114401	0.0003338
1147.27	0.0020528	0.0003116
1147.75	0.0015996	0.0002654
1148.24	-0.0118131	0.0002672
1148.72	-0.0046132	0.0002745
1149.2	0.0056169	0.0002547
1149.68	-0.005808	0.0003141
1150.16	-0.0091354	0.000237
1150.65	0.0024956	0.0002997
1151.13	-0.0006134	0.0003393
1151.61	-0.0093029	0.0002527
1152.09	-0.0016308	0.0002959
1152.58	0.0016379	0.0002622
1153.06	-0.0074254	0.0002957
1153.54	-0.0043702	0.0002612
1154.02	0.0017794	0.0003318
1154.5	-0.0064007	0.0003136
1154.99	-0.0065105	0.0002862
1155.47	0.002451	0.0003047
1155.95	-0.0041129	0.0002696
1156.43	-0.0098275	0.0003178
1156.92	0.0023894	0.0002782
1157.4	0.0023962	0.000326
1157.88	-0.0115465	0.0003436
1158.36	-0.0033072	0.0003268
1158.84	0.0075798	0.0002593
1159.33	-0.0069737	0.0002495
1159.81	-0.0102139	0.0002523
1160.29	0.0066205	0.0003203
1160.77	0.0013517	0.0002694
1161.26	-0.0120441	0.0003542
1161.74	-0.0006501	0.0003306

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1162.22	0.006688	0.0003071
1162.7	-0.0077596	0.000292
1163.18	-0.0062478	0.0002836
1163.67	0.0058234	0.0002622
1164.15	-0.0018419	0.0003853
1164.63	-0.0073608	0.0002881
1165.11	0.0027372	0.0002391
1165.59	0.0007666	0.000299
1166.08	-0.0084288	0.0003202
1166.56	-0.0005129	0.0002354
1167.04	0.0027418	0.0002964
1167.52	-0.0083179	0.0003544
1168.01	-0.003534	0.0002992
1168.49	0.0061128	0.0002019
1168.97	-0.0060215	0.000404
1169.45	-0.0092359	0.000288
1169.93	0.0066943	0.0003091
1170.42	0.0014607	0.0003798
1170.9	-0.012804	0.0003077
1171.38	0.0007345	0.0002705
1171.86	0.0087499	0.0003263
1172.35	-0.0092588	0.0003111
1172.83	-0.0070951	0.0003162
1173.31	0.009857	0.0003062
1173.79	1.74E-06	0.0003554
1174.27	-0.0106863	0.0003505
1174.76	0.0053857	0.0003683
1175.24	0.0064114	0.0003499
1175.72	-0.0086034	0.0003254
1176.2	-0.0019605	0.0003371
1176.68	0.0075947	0.0003896
1177.17	-0.0041983	0.0003187
1177.65	-0.0055457	0.0002748
1178.13	0.0061554	0.0003447
1178.61	-0.0007711	0.0003429
1179.1	-0.0079588	0.0002838
1179.58	0.0052675	0.0004001
1180.06	0.0034922	0.0002751
1180.54	-0.0091929	0.0003684
1181.02	0.0014375	0.0002806
1181.51	0.0091077	0.0003498
1181.99	-0.0069488	0.0003102
1182.47	-0.0053516	0.0003736
1182.95	0.0116594	0.0003273
1183.44	0.0007041	0.000328

Methanol 2.52 Mole % 5.8 Torr MS02AV5
MS02AD5

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1183.92	-0.0102518	0.000362
1184.4	0.0073887	0.0003685
1184.88	0.0094696	0.0003118
1185.36	-0.0089198	0.0003631
1185.85	-0.001387	0.0002962
1186.33	0.0128371	0.0003472
1186.81	-0.0013863	0.0003288
1187.29	-0.0062603	0.0003445
1187.77	0.0093214	0.0004357
1188.26	0.0050185	0.0002918
1188.74	-0.0069832	0.0003281
1189.22	0.0039898	0.0002724
1189.7	0.0081355	0.000413
1190.19	-0.0046775	0.0003682
1190.67	0.0003762	0.0004102
1191.15	0.0097862	0.0002998
1191.63	-0.0019349	0.0004042
1192.11	-0.0032058	0.0003326
1192.6	0.0108484	0.0003656
1193.08	0.0030156	0.0003629
1193.56	-0.0071171	0.0003926
1194.04	0.0088283	0.000316
1194.53	0.0103543	0.0004673
1195.01	-0.0072934	0.0002965
1195.49	0.0018975	0.0003693
1195.97	0.0156093	0.0003004
1196.45	-0.0015253	0.0004173
1196.94	-0.0059983	0.0003343
1197.42	0.0133613	0.0002568
1197.9	0.0085536	0.0003333
1198.38	-0.0071575	0.0003716
1198.86	0.0058331	0.000306
1199.35	0.0133438	0.0003836
1199.83	-0.0026923	0.000231
1200.31	-0.0007714	0.0003626
1200.79	0.0130667	0.0003813
1201.28	0.003694	0.0003338
1201.76	-0.0033352	0.0002942
1202.24	0.010777	0.0003485
1202.72	0.0081441	0.0002556
1203.2	-0.0034569	0.0003366
1203.69	0.0068044	0.0003225
1204.17	0.0112951	0.0003191
1204.65	-0.0028374	0.0003123
1205.13	0.0027033	0.0003326

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1205.62	0.0146173	0.0002669
1206.1	0.0004889	0.000321
1206.58	-0.0036056	0.0002971
1207.06	0.0141256	0.0003343
1207.54	0.0094128	0.0003549
1208.03	-0.0057239	0.0003597
1208.51	0.0078248	0.0003812
1208.99	0.01595	0.0003802
1209.47	-0.0024099	0.000239
1209.95	-0.0007357	0.0002573
1210.44	0.0154631	0.000379
1210.92	0.005704	0.0002958
1211.4	-0.0037788	0.0003449
1211.88	0.0116925	0.0003687
1212.37	0.01339	0.0003327
1212.85	-0.0010984	0.0003075
1213.33	0.0056497	0.0003461
1213.81	0.0137906	0.0003549
1214.29	0.0024679	0.0002331
1214.78	0.0030343	0.00033
1215.26	0.0128828	0.0004021
1215.74	0.0041019	0.0002992
1216.22	-0.0010152	0.0003489
1216.71	0.0117932	0.0003099
1217.19	0.0082423	0.0002958
1217.67	-0.0035042	0.0002589
1218.15	0.008139	0.0003294
1218.63	0.0141409	0.0003207
1219.12	-0.0027282	0.0003864
1219.6	0.0003764	0.0003432
1220.08	0.0157395	0.0004197
1220.56	0.0041296	0.0003044
1221.05	-0.0055681	0.0004891
1221.53	0.011364	0.0003679
1222.01	0.0111853	0.0003925
1222.49	-0.0044125	0.0003667
1222.97	0.0039827	0.0004283
1223.46	0.0142327	0.0003777
1223.94	0.0016919	0.0003339
1224.42	-0.0005201	0.0002988
1224.9	0.0136232	0.0003714
1225.38	0.0091078	0.0003394
1225.87	-0.0014094	0.0003838
1226.35	0.0082572	0.0003846
1226.83	0.0093926	0.0003852

Methanol 2.52 Mole % 5.8 Torr MS02AV5 MS02AD5

WN (cm-1)	AVE (A.U.)	AD (A.U.)	WN (cm-1)	AVE (A.U.)	AD (A.U.)
1227.31	-0.000681	0.0003807	1249.01	0.0074055	0.0003681
1227.8	0.0055473	0.0003411	1249.49	0.0060205	0.0003753
1228.28	0.011849	0.0003874	1249.98	-0.0014934	0.0003771
1228.76	0.000215	0.00039	1250.46	0.003316	0.0003472
1229.24	0.0004682	0.0003567	1250.94	0.0060374	0.0002791
1229.72	0.0123824	0.0003374	1251.42	-0.0005626	0.0003365
1230.21	0.0022311	0.0003664	1251.9	0.0022939	0.0003459
1230.69	-0.0037893	0.0003332	1252.39	0.0060699	0.0003582
1231.17	0.010003	0.0003882	1252.87	-0.0001242	0.0002573
1231.65	0.0085142	0.0003612	1253.35	0.0005938	0.0004247
1232.14	-0.004608	0.0003338	1253.83	0.0076537	0.0003163
1232.62	0.0053529	0.0002763	1254.32	0.0018873	0.000298
1233.1	0.0143579	0.0003442	1254.8	-0.0023153	0.0003198
1233.58	0.0007384	0.0004661	1255.28	0.0065913	0.0003901
1234.06	-0.0014659	0.0003178	1255.76	0.0060901	0.000407
1234.55	0.0109954	0.0003546	1256.24	-0.0027081	0.0003565
1235.03	0.0060391	0.0003991	1256.73	0.0025091	0.0003805
1235.51	-0.0052963	0.0003983	1257.21	0.0089306	0.0002277
1235.99	0.0050004	0.0003475	1257.69	0.000399	0.0002263
1236.47	0.0098863	0.000299	1258.17	-0.0018174	0.000319
1236.96	-0.0008301	0.0002918	1258.65	0.0075289	0.0002687
1237.44	0.0007854	0.0003437	1259.14	0.0051386	0.0004163
1237.92	0.0093758	0.0004151	1259.62	-0.0026367	0.0002576
1238.4	0.002931	0.0004856	1260.1	0.0041749	0.0003148
1238.89	0.0017832	0.0002673	1260.58	0.0097903	0.0002506
1239.37	0.009701	0.0002937	1261.07	-0.0006975	0.0003705
1239.85	0.0057526	0.0003768	1261.55	0.0002489	0.0002772
1240.33	-0.0004471	0.0003535	1262.03	0.005252	0.0004289
1240.81	0.0080803	0.000436	1262.51	0.0020627	0.0002652
1241.3	0.0069225	0.0003924	1262.99	0.0005429	0.000334
1241.78	-0.0030135	0.0003887	1263.48	0.0027899	0.0003292
1242.26	0.003869	0.0003038	1263.96	0.0015862	0.0003013
1242.74	0.0105082	0.0002932	1264.44	0.0004038	0.0002895
1243.23	-0.0011709	0.0003478	1264.92	0.003308	0.0002743
1243.71	-0.0008888	0.0004173	1265.41	0.002448	0.0002895
1244.19	0.0117944	0.0003808	1265.89	-0.0008531	0.0003356
1244.67	0.0040248	0.0003507	1266.37	0.0030137	0.0003301
1245.15	-0.0052292	0.0003509	1266.85	0.004707	0.0003664
1245.64	0.0058421	0.0003282	1267.33	-0.002135	0.0003081
1246.12	0.0087611	0.0002965	1267.82	-0.000326	0.0002233
1246.6	-0.0034069	0.0003613	1268.3	0.0063726	0.0002945
1247.08	-0.0003211	0.000304	1268.78	0.0017748	0.0003008
1247.56	0.0094751	0.0003498	1269.26	-0.0021899	0.0003743
1248.05	0.0021121	0.0003785	1269.74	0.0040977	0.0003072
1248.53	-0.0024671	0.0003492	1270.23	0.0059351	0.0003155

Methanol 2.52 Mole % 5.8 Torr MS02AV5
MS02AD5

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1270.71	-0.0009481	0.0003686
1271.19	-0.0004283	0.0003531
1271.67	0.0059844	0.0002468
1272.16	0.003932	0.0003781
1272.64	-0.0017216	0.0003323
1273.12	0.0004915	0.0003312
1273.6	0.001786	0.0003605
1274.08	-0.0006518	0.0003843
1274.57	-0.0011111	0.0002535
1275.05	0.0000194	0.0003653
1275.53	-0.0004544	0.0002725
1276.01	0.0005042	0.0002993
1276.5	-0.0003316	0.0003106
1276.98	-0.0015785	0.000407
1277.46	0.0009774	0.0003816
1277.94	0.0011936	0.0004651
1278.42	-0.002436	0.0003285
1278.91	-0.0012702	0.0003486
1279.39	0.0027712	0.00033
1279.87	-0.0002469	0.0003794
1280.35	-0.0023563	0.0003357
1280.84	0.0012468	0.0004247
1281.32	0.0015244	0.0003968
1281.8	-0.0021379	0.0003671
1282.28	-0.002065	0.0003165
1282.76	0.0013045	0.000354
1283.25	0.0000772	0.0003061
1283.73	-0.0009366	0.000381
1284.21	0.0000271	0.0003049
1284.69	0.000091	0.0004058
1285.17	0.000356	0.0003948
1285.66	-0.0005902	0.0003014
1286.14	-0.0021534	0.0002723
1286.62	0.0002456	0.0003064
1287.1	0.0032456	0.0002918
1287.59	0.0012343	0.000395
1288.07	-0.0022117	0.0003511
1288.55	0.0044686	0.000551
1289.03	0.0033239	0.0003512
1289.51	-0.0027344	0.0004638
1290	-0.0003734	0.0004011
1290.48	0.0052465	0.0003632
1290.96	0.0002791	0.000358
1291.44	-0.0037543	0.0003959
1291.93	0.0022903	0.0003352

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1292.41	0.0036053	0.0004911
1292.89	-0.0012542	0.0003232
1293.37	0.0012319	0.0003839
1293.85	0.0055241	0.0003395
1294.34	0.0007416	0.0004555
1294.82	0.0004919	0.0002795
1295.3	0.0023588	0.0004514
1295.78	0.0013424	0.0003377
1296.26	0.0025101	0.0003866
1296.75	0.0034253	0.0003765
1297.23	0.0009819	0.0003483
1297.71	0.0010877	0.00033
1298.19	0.0051686	0.0003248
1298.68	0.0013453	0.0003497
1299.16	-0.0011887	0.0004364
1299.64	0.0043247	0.0004573
1300.12	0.0054015	0.0003643
1300.6	-0.0010473	0.000358
1301.09	0.0001343	0.0002002
1301.57	0.0079937	0.0004357
1302.05	0.0030194	0.000471
1302.53	-0.0007716	0.0004892
1303.02	0.0064437	0.0004018
1303.5	0.0060415	0.0004711
1303.98	-0.0009278	0.0004099
1304.46	0.0025554	0.0005251
1304.94	0.0073198	0.0003217
1305.43	0.0021989	0.0003951
1305.91	0.0025582	0.0004173
1306.39	0.0070673	0.0004054
1306.87	0.003659	0.0004225
1307.35	0.0021918	0.0004163
1307.84	0.0074318	0.000288
1308.32	0.0082155	0.0003944
1308.8	0.0027721	0.000348
1309.28	0.0082434	0.0003551
1309.77	0.0079187	0.0004095
1310.25	-0.0002965	0.0004364
1310.73	0.0035665	0.0003582
1311.21	0.0107075	0.0003795
1311.69	0.0031336	0.0003036
1312.18	0.0032913	0.0004091
1312.66	0.0186876	0.0004508
1313.14	0.0089576	0.0005505
1313.62	0.002088	0.0004296

Methanol 2.52 Mole % 5.8 Torr MS02AV5
MS02AD5

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1314.11	0.0061134	0.0004887
1314.59	0.0137164	0.0003583
1315.07	0.0062982	0.0003932
1315.55	0.0029584	0.0003706
1316.03	0.0116463	0.0003387
1316.52	0.0087221	0.0003393
1317	0.0079355	0.0003826
1317.48	0.013164	0.0006247
1317.96	0.0162451	0.0004646
1318.44	0.007211	0.0002909
1318.93	0.0203239	0.0003491
1319.41	0.0161176	0.0006414
1319.89	0.007495	0.0005306
1320.37	0.0125141	0.0004225
1320.86	0.0163521	0.0005312
1321.34	0.0073688	0.0004698
1321.82	0.0076626	0.0003255
1322.3	0.0149932	0.0004536
1322.78	0.0079365	0.0004128
1323.27	0.001231	0.0004133
1323.75	0.0117017	0.0004588
1324.23	0.0148964	0.0004514
1324.71	-0.0000982	0.0004961
1325.2	0.0032718	0.0005372
1325.68	0.0156838	0.0004215
1326.16	0.0059683	0.0004199
1326.64	-0.000939	0.0004784
1327.12	0.0112171	0.0005753
1327.61	0.0108451	0.000399
1328.09	-0.0018473	0.0003891
1328.57	0.0055394	0.0004358
1329.05	0.014102	0.0005137
1329.54	0.0039974	0.0004046
1330.02	0.0037447	0.0003055
1330.5	0.014086	0.000366
1330.98	0.0104752	0.0003174
1331.46	0.0081956	0.0002796
1331.95	0.0187064	0.0003297
1332.43	0.0138085	0.0004273
1332.91	0.0014729	0.000309
1333.39	0.0081675	0.0003734
1333.87	0.0104855	0.0004288
1334.36	0.0009714	0.0003179
1334.84	0.004704	0.0003923
1335.32	0.0150933	0.0004269

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1335.8	0.006132	0.0003099
1336.29	0.0059074	0.0003197
1336.77	0.0317076	0.0003681
1337.25	0.0144012	0.00054
1337.73	0.0049219	0.0003991
1338.21	0.022305	0.0002851
1338.7	0.0430676	0.0004256
1339.18	0.0193053	0.0002829
1339.66	0.0251364	0.0004674
1340.14	0.0386834	0.0002005
1340.63	0.0359244	0.0006364
1341.11	0.0032841	0.0006343
1341.59	0.0131426	0.0005526
1342.07	0.0131433	0.0002538
1342.55	0.0021422	0.000358
1343.04	0.0092025	0.0003276
1343.52	0.0153868	0.0004128
1344	0.0059112	0.0003084
1344.48	0.0105586	0.0003816
1344.96	0.0246602	0.0002931
1345.45	0.0179742	0.0005438
1345.93	0.0112811	0.0004685
1346.41	0.0199356	0.0004979
1346.89	0.0164776	0.0003499
1347.38	0.0086655	0.0004386
1347.86	0.0155447	0.0003128
1348.34	0.0187171	0.0004598
1348.82	0.0049092	0.0002964
1349.3	0.0105758	0.0003874
1349.79	0.0228785	0.0004095
1350.27	0.0073434	0.0005494
1350.75	0.0001595	0.0003819
1351.23	0.0159003	0.0004241
1351.72	0.0138554	0.0004428
1352.2	0.0009756	0.0003174
1352.68	0.010621	0.0004043
1353.16	0.0178846	0.000487
1353.64	0.0071073	0.0003644
1354.13	0.0082911	0.0004541
1354.61	0.0213144	0.000426
1355.09	0.0197725	0.0004468
1355.57	0.0061756	0.0003206
1356.05	0.0152279	0.000535
1356.54	0.0149263	0.0004463
1357.02	0.0079486	0.0002796

Methanol 2.52 Mole % 5.8 Torr MS02AV5
MS02AD5

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1357.5	0.0157108	0.0003988
1357.98	0.0201587	0.0003932
1358.47	0.0101576	0.0003877
1358.95	0.0126597	0.000509
1359.43	0.0227756	0.0005175
1359.91	0.0132687	0.000461
1360.39	0.0144308	0.0003582
1360.88	0.035305	0.0002402
1361.36	0.0476286	0.0007946
1361.84	0.010987	0.0004819
1362.32	0.0266614	0.0001306
1362.81	0.0511501	0.0001643
1363.29	0.048834	0.0004134
1363.77	0.0163579	0.0009901
1364.25	0.0219685	0.0007382
1364.73	0.0127174	0.0003572
1365.22	0.0026804	0.0003727
1365.7	0.0159024	0.0003163
1366.18	0.0161422	0.0002632
1366.66	0.0022361	0.000368
1367.14	0.0117245	0.0004645
1367.63	0.0216064	0.0004443
1368.11	0.0108369	0.0003948
1368.59	0.0216397	0.0004348
1369.07	0.0286498	0.0009331
1369.56	0.0120963	0.0005729
1370.04	0.0103272	0.0005612
1370.52	0.0232861	0.0006502
1371	0.0183917	0.0004748
1371.48	0.0076624	0.0005466
1371.97	0.0205235	0.0004469
1372.45	0.0293603	0.0003504
1372.93	0.014469	0.0003057
1373.41	0.0278059	0.0000436
1373.9	0.0674323	0.000577
1374.38	0.0248914	0.0009576
1374.86	0.0176657	0.0005353
1375.34	0.0457374	0.0006679
1375.82	0.0203143	0.0006596
1376.31	0.0025167	0.0004314
1376.79	0.0121823	0.0005323
1377.27	0.020447	0.0003351
1377.75	0.0088784	0.0003667
1378.23	0.0169234	0.0003861
1378.72	0.0202036	0.0004179

WN (cm-1)	AVE (A.U.)	AD (A.U.)
1379.2	0.0136286	0.0003343
1379.68	0.0107038	0.0004518
1380.16	0.0172126	0.0004047
1380.65	0.0153388	0.0003617
1381.13	0.0044847	0.0004521
1381.61	0.0123561	0.0004698
1382.09	0.0172533	0.0005044
1382.57	0.0055572	0.0005034
1383.06	0.0092703	0.00055
1383.54	0.0187226	0.0006641
1384.02	0.008203	0.0004632
1384.5	0.0061696	0.0005284
1384.99	0.021705	0.0003985
1385.47	0.01818	0.0003813
1385.95	0.0097314	0.0002143
1386.43	0.0323273	0.0001036
1386.91	0.0407759	0.0002789
1387.4	0.0352018	0.0000692
1387.88	0.046736	0.0013576
1388.36	0.026595	0.0006457
1388.84	0.0135645	0.0002224
1389.33	0.0065229	0.0003047
1389.81	0.0186451	0.0002793
1390.29	0.0174661	0.0003903
1390.77	0.0059266	0.0004078
1391.25	0.0144242	0.0002878
1391.74	0.0200684	0.0004185
1392.22	0.0101763	0.0004527
1392.7	0.0127415	0.0004162
1393.18	0.02659	0.0004583
1393.66	0.0264866	0.0001754
1394.15	0.0389298	0.0001738
1394.63	0.0861553	0.0006366
1395.11	0.0398874	0.0012053
1395.59	0.0275289	0.0007853
1396.08	0.0509039	0.0006935
1396.56	0.0252074	0.0003739
1397.04	0.0133588	0.0002361
1397.52	0.0246474	0.0000591
1398	0.0498413	0.0001776
1398.49	0.0250993	0.0001464
1398.97	0.0372837	0.0000339
1399.45	0.0751495	0.0008199
1399.93	0.024482	0.0008487