Report Details

Report Location	C:\pel_data\reports\Sample B scan set 1_2
Report Creator	Administrator
Report Date	11/10/2024 13:25:11

Sample Details

Filename	Sample B scan set 1
Creation Date	11/10/2024 11:18:53
Analyst	Administrator
X-Axis Units	cm-1
X-Axis start value	4000
X-Axis end value	450
Data interval	-1
Number of points	3551
Y-Axis Units	A
Z-Axis Units	
Description	Sample 008 By Administrator Date Friday, October 11 2024

Instrument Details

Instrument Model	Spectrum Two
Instrument Serial Number	106427
Software Revision	NIOS2 Main 00.02.0100 12-September-2017 10:59:00
Number of Scans	15
Resolution	4
Detector	LiTa03
Source	MIR
Beamsplitter	OptKBr
Apodization	Strong
Spectrum Type	Spectrum
Beam Type	Ratio
Phase correction	Magnitude
Scan Speed	0.2
IGram Type	Double
Scan Direction	Combined
Zero Crossings	0
JStop	8.94
IR-Laser Wavenumber	11750.00
Manufacturer	PKI
Part Number	L1600235
Serial Number	51203
Description	ATR Sample base plate
Default Scan Range / cm-1	4000 450
Force Applied / N	-45
Accessory Type	Universal ATR
UATR Crystal Combination	Diamond

UATR Number of Bounces	1
UATR Option	Not Specified

Accessory

Manufacturer	PKI
Part Number	L1600235
Serial Number	51203
Description	ATR Sample base plate
Default Scan Range / cm-1	4000 450
Force Applied / N	-45
Accessory Type	Universal ATR
UATR Crystal Combination	Diamond
UATR Number of Bounces	1
UATR Option	Not Specified

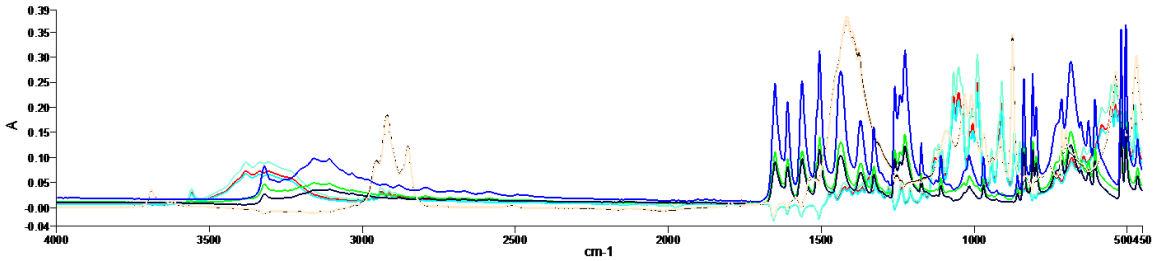
Quality Checks

Water Vapor	Passed
Baseline Low	Passed
Baseline High	Passed
Baseline Slope	Passed
Strong Bands	Passed
Weak Bands	Caution
High Noise	Passed
Vignetting	Passed
Blocked Beam	Passed
Negative Bands	Passed
Zero Transmission	Passed
Stray Light	Passed

History

Who	What	When	Parameters	Comment
Administrator	Created as New Dataset	11/10/2024 11:18:53		Sample 008 By Administrator Date Friday, October 11 2024
Administrator	Atmospheric Correction	11/10/2024 11:18:53		
Administrator	Absorbance	11/10/2024 13:22:27	"Sample B scan set 1", "Result.sp"	

Spectrum



Name	Description
Sample A scan set 1	Sample 005 By Administrator Date Friday, October 11 2024
Sample A scan set 2	Sample 006 By Administrator Date Friday, October 11 2024
Sample A scan set 3	Sample 007 By Administrator Date Friday, October 11 2024
Sample B scan set 1	Sample 008 By Administrator Date Friday, October 11 2024
Sample B scan set 2	Sample 009 By Administrator Date Friday, October 11 2024
Sample C scan set 1	Sample 011 By Administrator Date Friday, October 11 2024
Sample C scan set 2	Sample 012 By Administrator Date Friday, October 11 2024
Sample C scan set 3	Sample 013 By Administrator Date Friday, October 11 2024
Samples B scan set 3	Sample 010 By Administrator Date Friday, October 11 2024

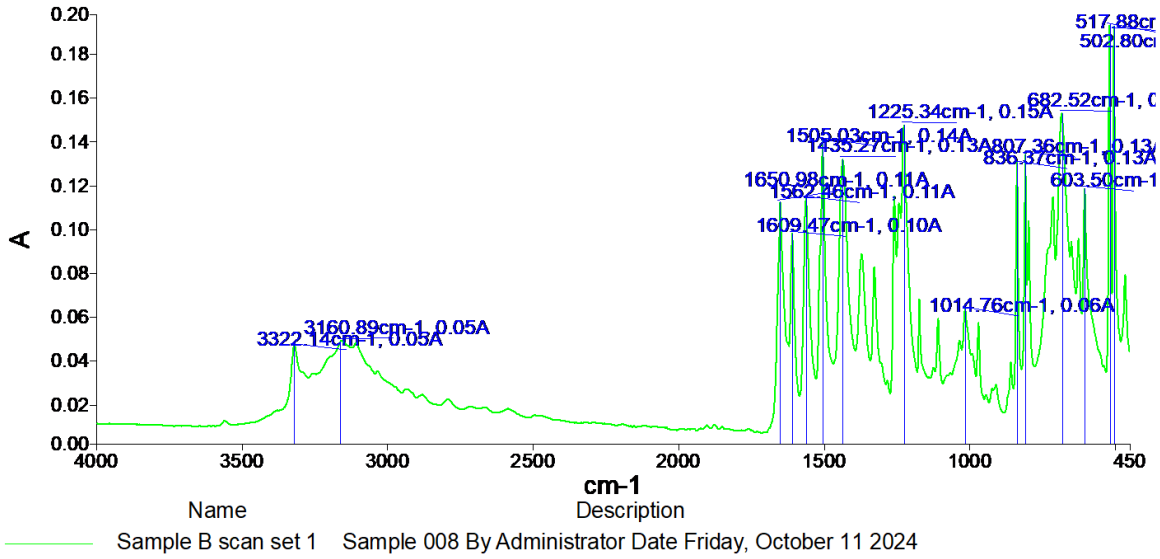
Summary

Sample Name	Description	Saved or unsaved State	Spectrum quality check summary
Sample A scan set 1	Sample 005 By Administrator Date Friday, October 11 2024	Not saved	The Quality Checks give rise to a Baseline High warning for the sample.
Sample A scan set 2	Sample 006 By Administrator Date Friday, October 11 2024	Not saved	The Quality Checks give rise to a Baseline High warning for the sample.
Sample A scan set 3	Sample 007 By Administrator Date Friday, October 11 2024	Not saved	The Quality Checks give rise to a Baseline High warning for the sample.
Sample B scan set 1	Sample 008 By Administrator Date Friday, October 11 2024	Not saved	The Quality Checks give rise to a Weak Bands warning for the sample.
Sample B scan set 2	Sample 009 By Administrator Date Friday, October 11 2024	Not saved	The Quality Checks give rise to a Weak Bands warning for the sample.
Sample C scan set 1	Sample 011 By Administrator Date Friday, October 11 2024	Not saved	The Quality Checks do not report any warnings for the sample.
Sample C scan set 2	Sample 012 By Administrator Date Friday, October 11 2024	Not saved	The Quality Checks do not report any warnings for the sample.

Sample Name	Description	Saved or unsaved State	Spectrum quality check summary
Sample C scan set 3	Sample 013 By Administrator Date Friday, October 11 2024	Not saved	The Quality Checks do not report any warnings for the sample.
Samples B scan set 3	Sample 010 By Administrator Date Friday, October 11 2024	Not saved	The Quality Checks do not report any warnings for the sample.

Peak Area/Height Results

Result Spectrum



Peak Area/Height Table

Peak Number	Height (A)	Start	End	X (cm-1)	Y (A)
1	0.0471	4000	3274.95	3322.14	0.0471
2	0.0491	3274.95	1717.05	3160.89	0.0491
3	0.1128	1717.05	1620.65	1650.98	0.1128
4	0.0982	1620.65	1583.85	1609.47	0.0982
5	0.1144	1583.85	1527.45	1562.46	0.1144
6	0.1413	1527.45	1468.38	1505.03	0.1413
7	0.1321	1468.38	1392.05	1435.27	0.1321
8	0.1476	1250.4	1179.27	1225.34	0.1476
9	0.0641	1091.87	977.06	1014.76	0.0641
10	0.1306	847.77	820.52	836.37	0.1306
11	0.1344	820.52	801.33	807.36	0.1344
12	0.1533	704.03	633.24	682.52	0.1533
13	0.1188	612.42	529.09	603.5	0.1188
14	0.1935	529.09	509.55	517.88	0.1935

Peak Number	Height (A)	Start	End	X (cm-1)	Y (A)
15	0.193	509.55	478.41	502.8	0.193