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Report Details

Report Location	C:\pel_data\reports\Sample A scan set 1_3
Report Creator	Administrator
Report Date	11/10/2024 13:03:05

Sample Details

Filename	Sample A scan set 1
Creation Date	11/10/2024 11:08:28
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 005 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	LiTaO3
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

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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

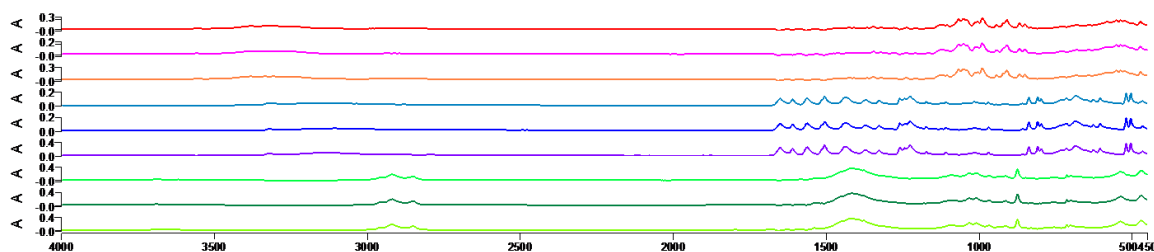
Water Vapor Passed
Baseline Low Passed
Baseline High Caution
Baseline Slope Passed
Strong Bands Passed
Weak Bands Passed
High Noise Passed
Vignetting Passed
Blocked Beam Passed
Negative Bands Passed
Zero Transmission Passed
Stray Light Passed

History

Who	What	When	Parameters	Comment
Administrator	Created as New Dataset	11/10/2024 11:08:28		Sample 005 By Administrator Date Friday, October 11 2024
Administrator	Atmospheric Correction	11/10/2024 11:08:28		
Administrator	Absorbance	11/10/2024 11:08:37	"Sample A scan set 1", "Result.sp"	

Spectrum

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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
Samples B scan set 3	Sample 010 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

Summary

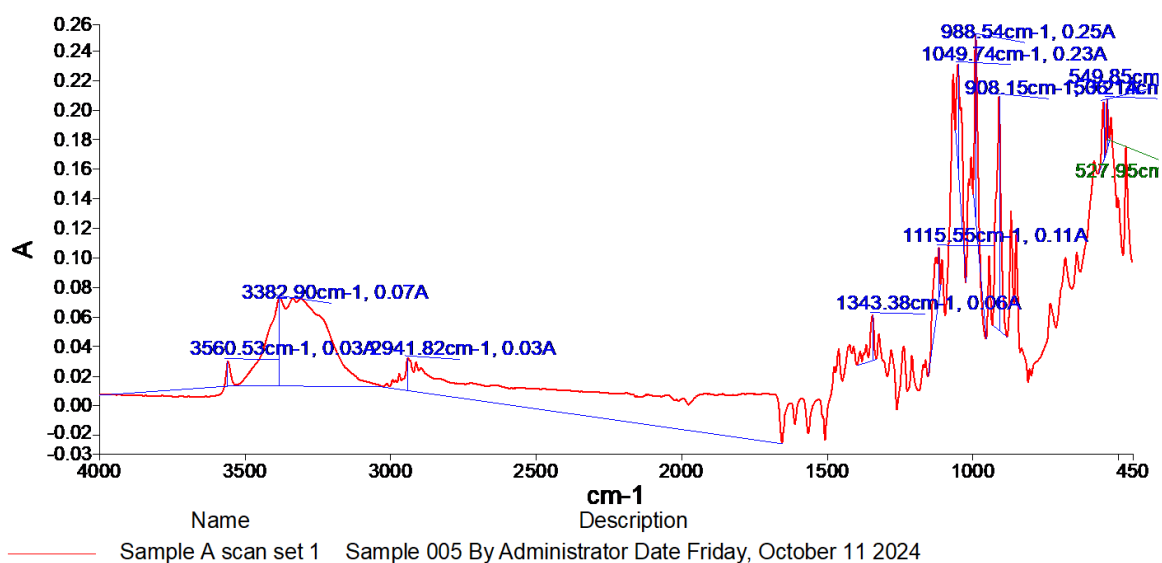
Sample Name	Description	Saved or unsaved State	Spectrum quality check summary
Sample A scan set 1	Sample 005 By Administrator Date Friday, October 11 2024	Not saved	The Quality Checks give rise to a Baseline High warning for the sample.
Sample A scan set 2	Sample 006 By Administrator Date Friday, October 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.
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.
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.

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Sample Name	Description	Saved or unsaved State	Spectrum quality check summary
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 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.

Peak Area/Height Results

Result Spectrum



Peak Area/Height Table

Peak Number	Height (A)	Start	End	Base1	Base1 Left
1	0.0165	4000	3530.38	4000	4000
2	0.0601	3530.38	3030.54	3530.38	3531.38
3	0.0219	3030.54	1654.84	3030.54	3031.54
4	0.0303	1397.44	1330.24	1397.44	1398.44
5	0.0336	1153.28	1109.04	1153.28	1154.28
6	0.0713	1059.2	1022.9	1059.2	1060.2
7	0.1283	997.83	953.77	997.83	998.83
8	0.1589	931.27	880.73	931.27	932.27
9	0.0391	567.74	542.13	567.74	568.74
10	0.0326	542.13	527.95	542.13	543.13

Peak Area/Height Table

Base1 Right	Base2	Base2 Left	Base2 Right	X (cm-1)	Y (A)
3999	3530.38	3531.38	3529.38	3560.53	0.0298
3529.38	3030.54	3031.54	3029.54	3382.9	0.0736

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Base1 Right	Base2	Base2 Left	Base2 Right	X (cm-1)	Y (A)
3029.54	1654.84	1655.84	1653.84	2941.82	0.0323
1396.44	1330.24	1331.24	1329.24	1343.38	0.0611
1152.28	1109.04	1110.04	1108.04	1115.55	0.1069
1058.2	1022.9	1023.9	1021.9	1049.74	0.2312
996.83	953.77	954.77	952.77	988.54	0.2511
930.27	880.73	881.73	879.73	908.15	0.2097
566.74	542.13	543.13	541.13	549.85	0.2054
541.13	527.95	528.95	526.95	536.14	0.2075