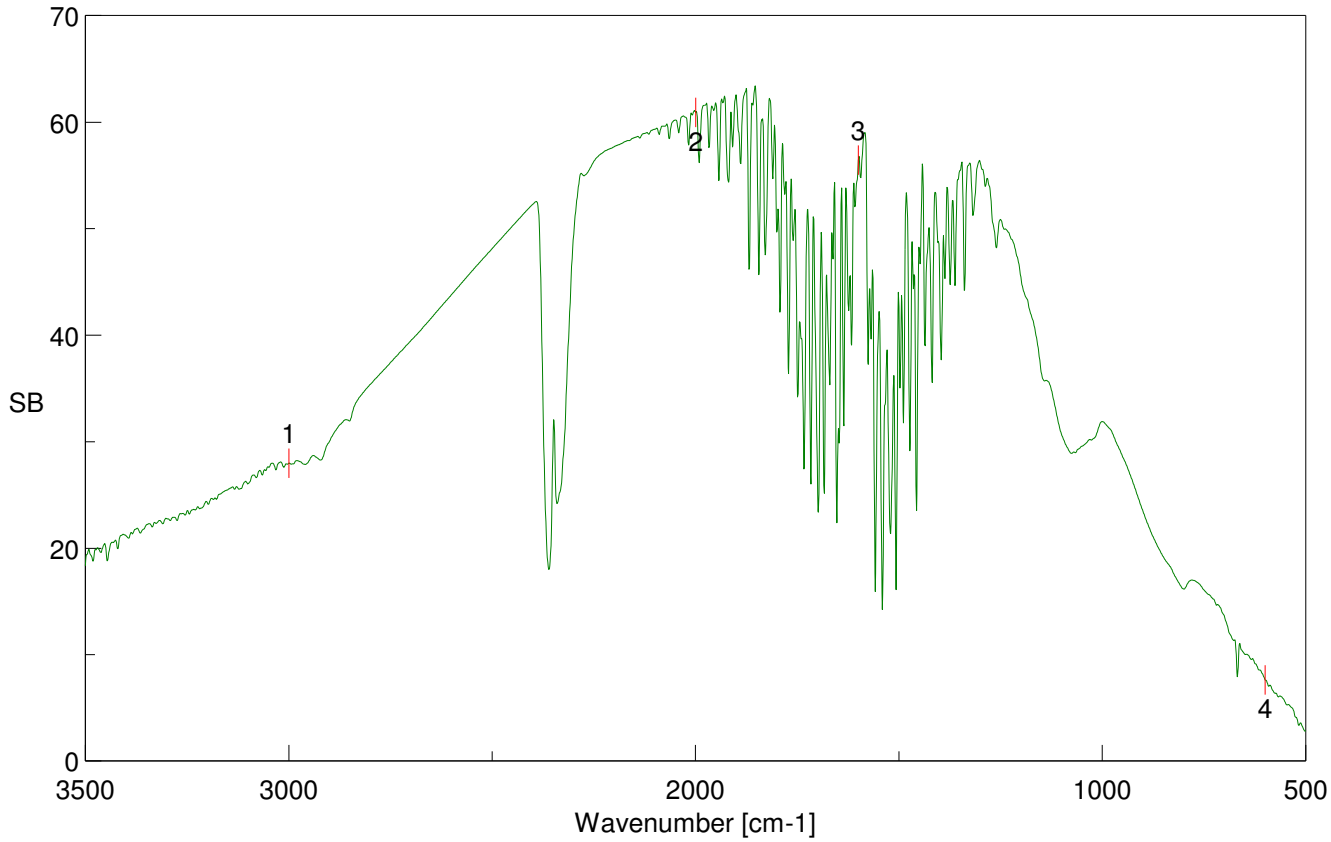
Peak Find - 001 - Energy Level - 2025.jws



[Comments]

Sample name	
Comment	
User	QPackSA
Workgroup	Instalacao
Division	Suporte Tec. Jasco
Company	libbs

[Detailed Information]

Creation date	9/22/2025 11:17 AM
Data array type	Linear data array
Horizontal axis	Wavenumber [cm-1]
Vertical axis	SB
Start	499.473 cm-1
End	3500.17 cm-1
Data interval	0.964233 cm-1
Data points	3113

[Measurement Information]

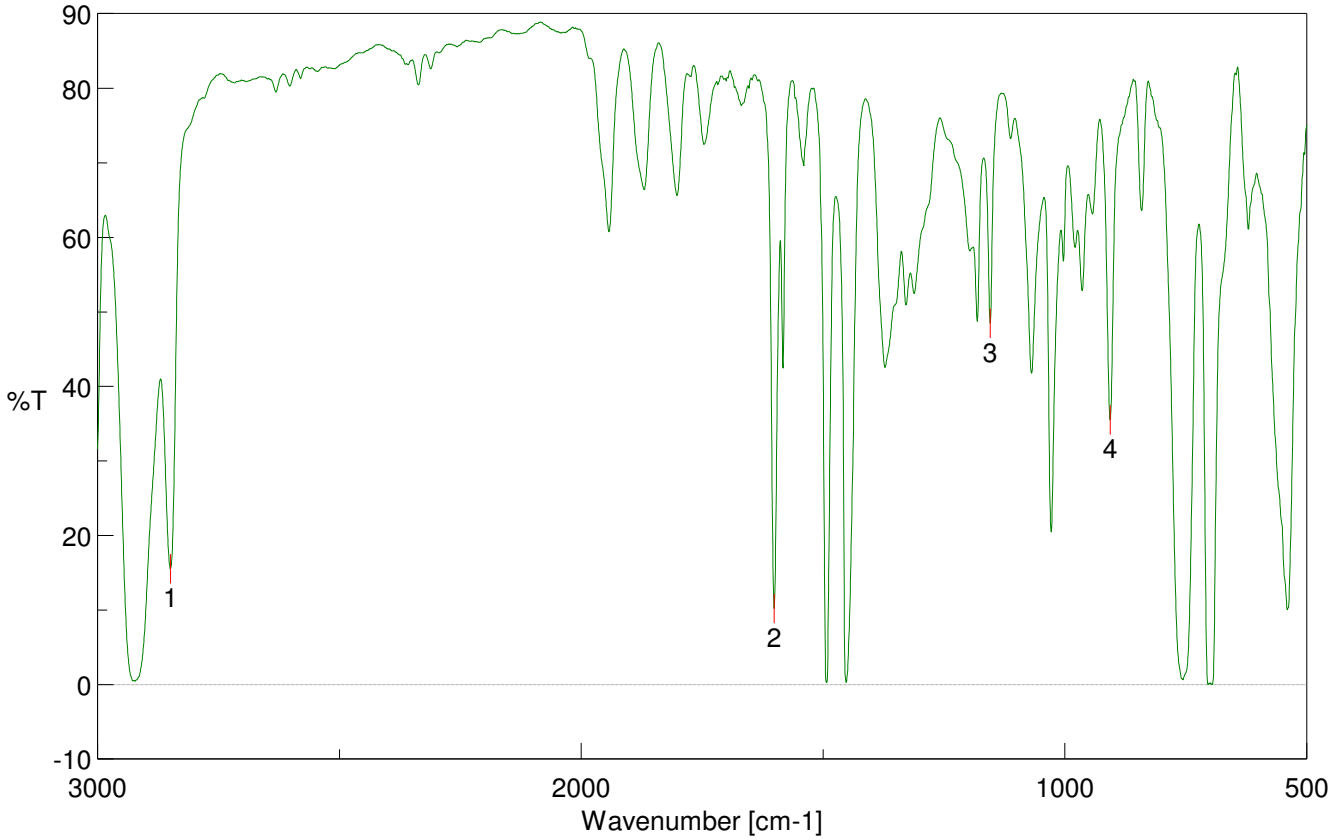
Model Name	FT/IR-4600typeA
Serial Number	D055461786
Measurement Date	9/22/2025 11:07 AM
Light Source	Standard
Detector	TGS
Accumulation	16
Resolution	4 cm-1
Zero Filling	On
Apodization	Cosine
Gain	Auto (1)
Aperture	Auto (7.1 mm)
Scanning Speed	Auto (2 mm/sec)
Filter	Auto (30000 Hz)

[Result of Peak Picking]

No.	Position	Intensity	No.	Position	Intensity	No.	Position	Intensity
1	2999.73	27.9656	2	1999.82	60.8986	3	1599.66	56.4013
4	599.753	7.60207						

Creation	QPack Soluções Analíticas
Review	
Approval	

Peak Find - 002 - Wavenumber Accuracy - 2025.jws



[Comments]
Sample name
Comment

User	QPackSA
Workgroup	Instalacao
Division	Suporte Tec. Jasco
Company	libbs

[Detailed Information]

Creation date	9/22/2025 11:25 AM
Data array type	Linear data array
Horizontal axis	Wavenumber [cm-1]
Vertical axis	%T
Start	499.955 cm-1
End	3000.21 cm-1
Data interval	0.482117 cm-1
Data points	5187

[Measurement Information]

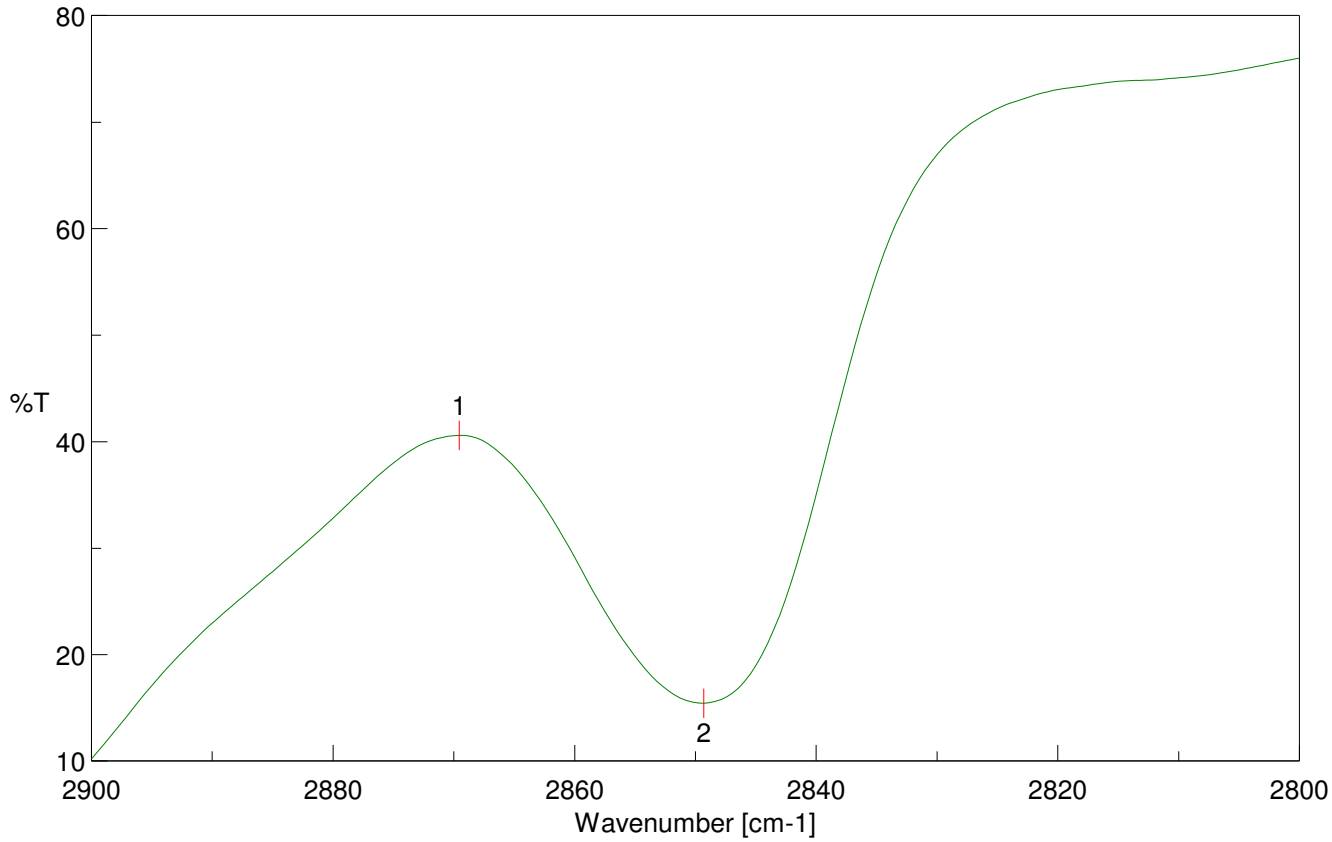
Model Name	FT/IR-4600typeA
Serial Number	D055461786
Measurement Date	9/22/2025 11:22 AM
Light Source	Standard
Detector	TGS
Accumulation	16
Resolution	2 cm-1
Zero Filling	On
Apodization	Cosine
Gain	Auto (2)
Aperture	Auto (5 mm)
Scanning Speed	Auto (2 mm/sec)
Filter	Auto (30000 Hz)

[Result of Peak Picking]

No.	Position	Intensity	No.	Position	Intensity	No.	Position	Intensity
1	2849.31	15.485	2	1601.11	10.1617	3	1154.67	48.4312
4	906.379	35.4598						

Creation	QPack Soluções Analíticas
Review	
Approval	

Peak Find - 003 - Resolution - 2025.jws



[Comments]
Sample name
Comment

User	QPackSA
Workgroup	Instalacao
Division	Suporte Tec. Jasco
Company	libbs

[Detailed Information]

Creation date	9/22/2025 11:30 AM
Data array type	Linear data array
Horizontal axis	Wavenumber [cm-1]
Vertical axis	%T
Start	499.955 cm-1
End	3000.21 cm-1
Data interval	0.482117 cm-1
Data points	5187

[Measurement Information]

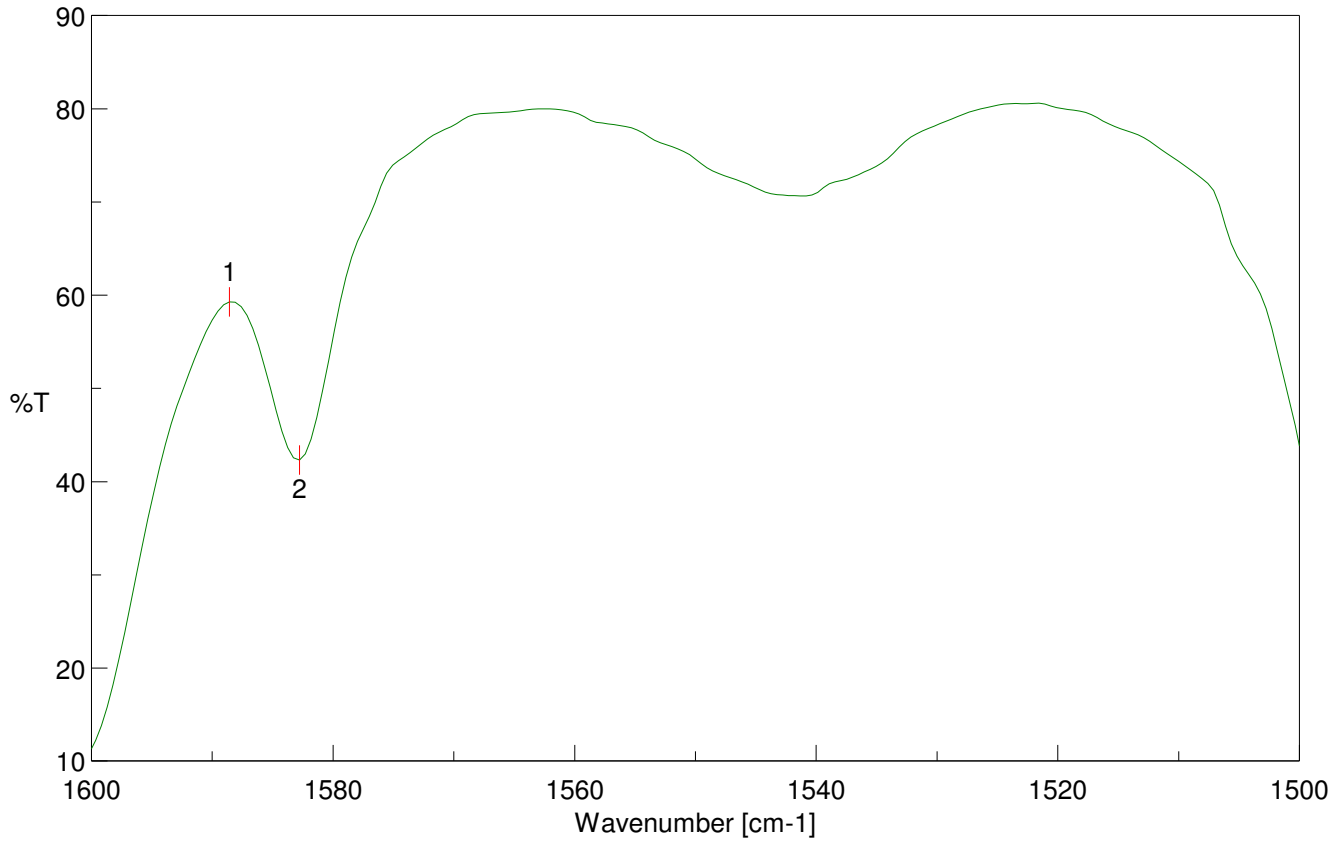
Model Name	FT/IR-4600typeA
Serial Number	D055461786
Measurement Date	9/22/2025 11:29 AM
Light Source	Standard
Detector	TGS
Accumulation	16
Resolution	2 cm-1
Zero Filling	On
Apodization	Cosine
Gain	Auto (2)
Aperture	Auto (5 mm)
Scanning Speed	Auto (2 mm/sec)
Filter	Auto (30000 Hz)

[Result of Peak Picking]

No.	Position	Intensity	No.	Position	Intensity	No.	Position	Intensity
1	2869.56	40.5809	2	2849.31	15.4075			

Creation QPack Soluções Analíticas
Review
Approval

Peak Find - 003 - Resolution - 2025.jws



[Comments]
Sample name
Comment

User	QPackSA
Workgroup	Instalacao
Division	Suporte Tec. Jasco
Company	libbs

[Detailed Information]

Creation date	9/22/2025 11:30 AM
Data array type	Linear data array
Horizontal axis	Wavenumber [cm-1]
Vertical axis	%T
Start	499.955 cm-1
End	3000.21 cm-1
Data interval	0.482117 cm-1
Data points	5187

[Measurement Information]

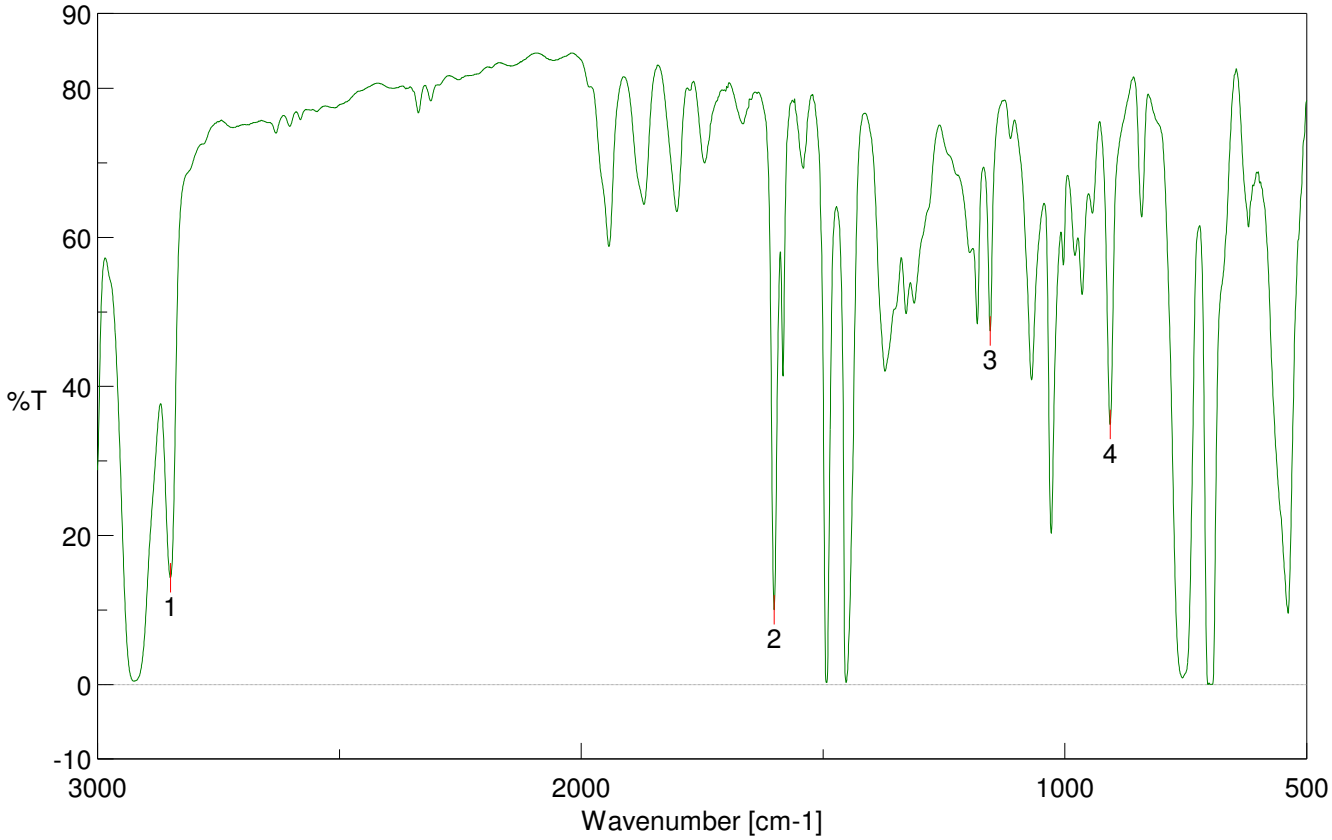
Model Name	FT/IR-4600typeA
Serial Number	D055461786
Measurement Date	9/22/2025 11:29 AM
Light Source	Standard
Detector	TGS
Accumulation	16
Resolution	2 cm-1
Zero Filling	On
Apodization	Cosine
Gain	Auto (2)
Aperture	Auto (5 mm)
Scanning Speed	Auto (2 mm/sec)
Filter	Auto (30000 Hz)

[Result of Peak Picking]

No.	Position	Intensity	No.	Position	Intensity	No.	Position	Intensity
1	1588.57	59.2732	2	1582.79	42.2741			

Creation	QPack Soluções Analíticas
Review	
Approval	

Peak Find - 004a - Wavenumber Repeatability - 2025.jws



[Comments]
Sample name
Comment

User	QPackSA
Workgroup	Instalacao
Division	Suporte Tec. Jasco
Company	libbs

[Detailed Information]

Creation date	9/22/2025 11:35 AM
Data array type	Linear data array
Horizontal axis	Wavenumber [cm-1]
Vertical axis	%T
Start	499.955 cm-1
End	3000.21 cm-1
Data interval	0.482117 cm-1
Data points	5187

[Measurement Information]

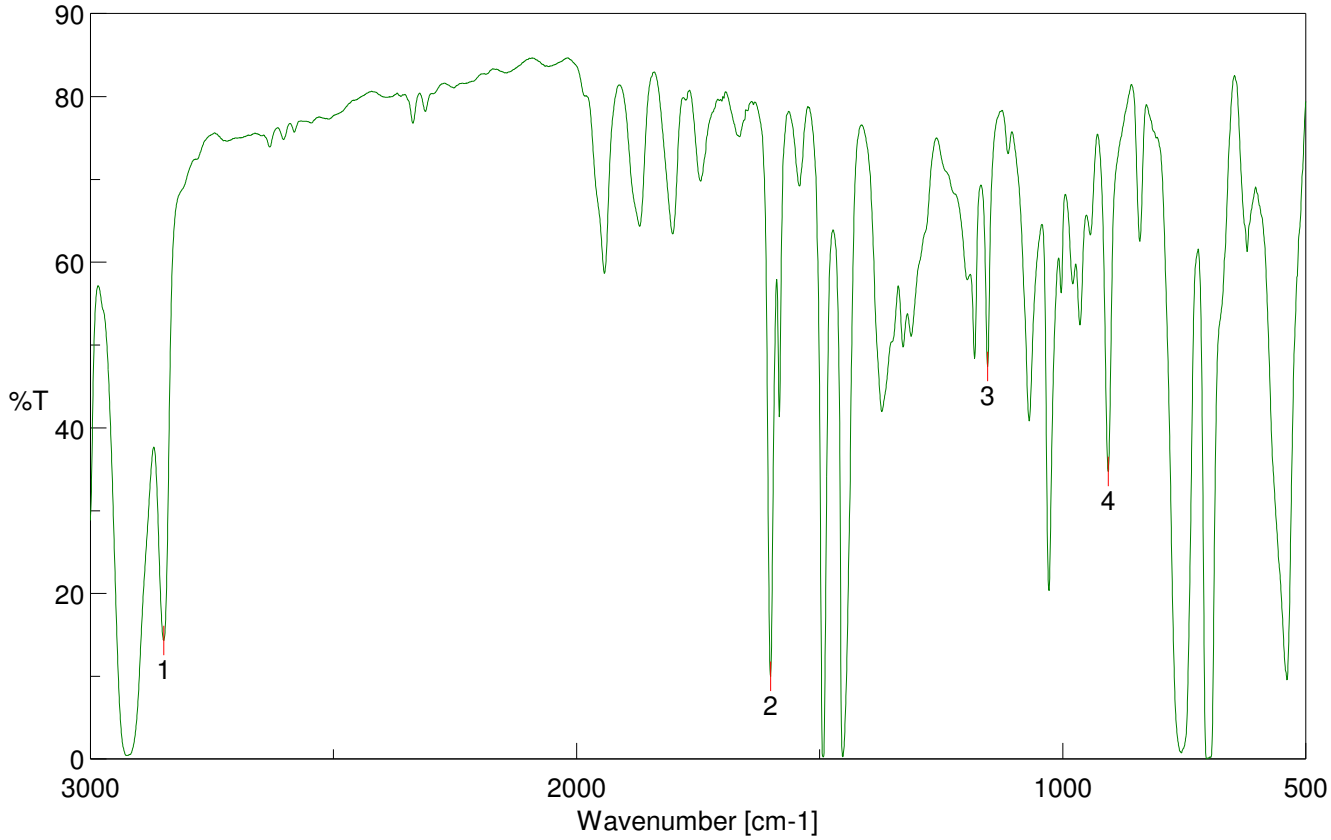
Model Name	FT/IR-4600typeA
Serial Number	D055461786
Measurement Date	9/22/2025 11:34 AM
Light Source	Standard
Detector	TGS
Accumulation	16
Resolution	2 cm-1
Zero Filling	On
Apodization	Cosine
Gain	Auto (2)
Aperture	Auto (5 mm)
Scanning Speed	Auto (2 mm/sec)
Filter	Auto (30000 Hz)

[Result of Peak Picking]

No.	Position	Intensity	No.	Position	Intensity	No.	Position	Intensity
1	2849.31	14.2903	2	1601.11	9.98796	3	1154.67	47.4268
4	906.379	34.8495						

Creation	QPack Soluções Analíticas
Review	
Approval	

Peak Find - 004b - Wavenumber Repeatability - 2025.jws



[Comments]
Sample name
Comment

User	QPackSA
Workgroup	Instalacao
Division	Suporte Tec. Jasco
Company	libbs

[Detailed Information]

Creation date	9/22/2025 11:38 AM
Date modified	9/22/2025 11:38 AM
Data array type	Linear data array
Horizontal axis	Wavenumber [cm-1]
Vertical axis	%T
Start	499.955 cm-1
End	3000.21 cm-1
Data interval	0.482117 cm-1
Data points	5187

[Measurement Information]

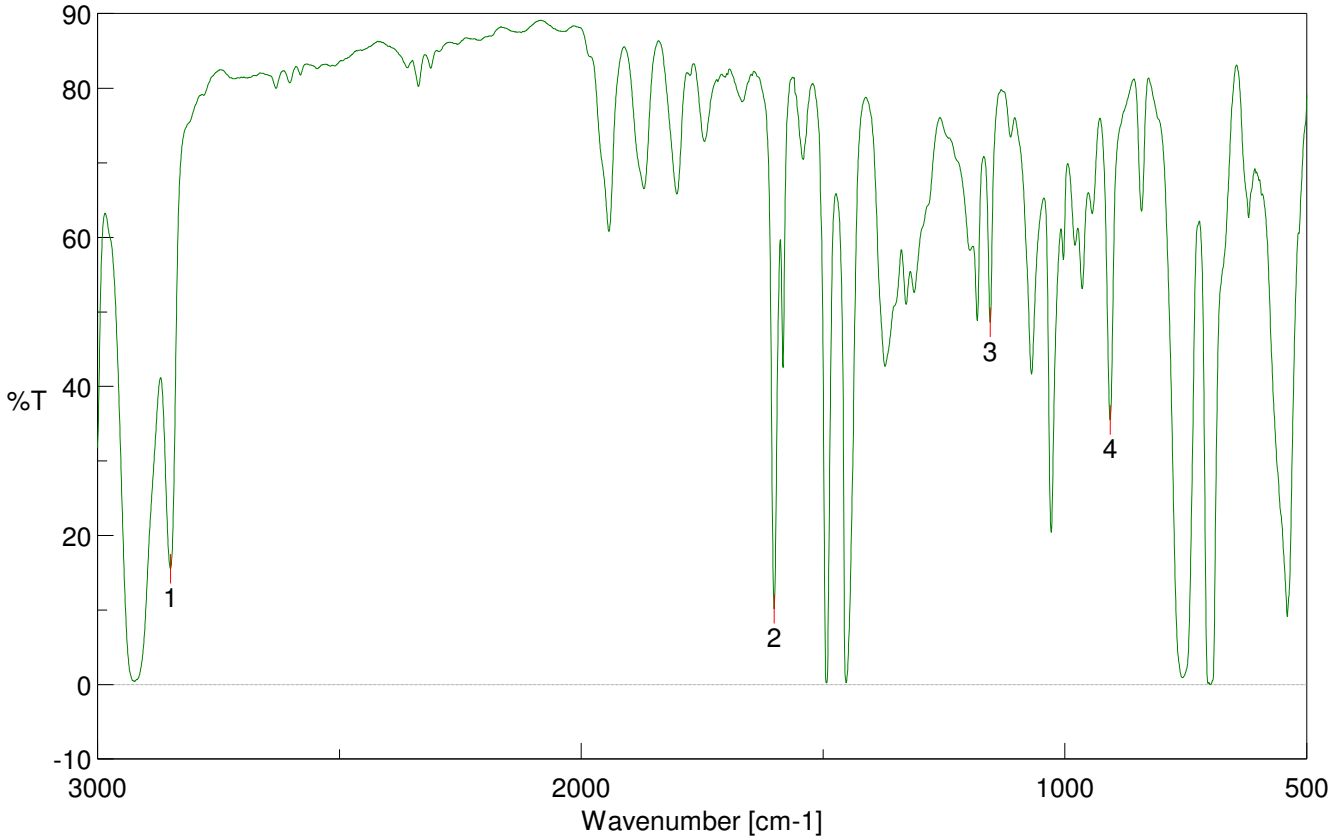
Model Name	FT/IR-4600typeA
Serial Number	D055461786
Measurement Date	9/22/2025 11:38 AM
Light Source	Standard
Detector	TGS
Accumulation	16
Resolution	2 cm-1
Zero Filling	On
Apodization	Cosine
Gain	Auto (2)
Aperture	Auto (5 mm)
Scanning Speed	Auto (2 mm/sec)
Filter	Auto (30000 Hz)

[Result of Peak Picking]

No.	Position	Intensity	No.	Position	Intensity	No.	Position	Intensity
1	2849.31	14.3014	2	1601.11	9.98495	3	1154.67	47.3779
4	906.379	34.7042						

Creation	QPack Soluções Analíticas
Review	
Approval	

Peak Find - 005a - Photometric Repeatability - 2025.jws



[Comments]
Sample name
Comment

User	QPackSA
Workgroup	Instalacao
Division	Suporte Tec. Jasco
Company	libbs

[Detailed Information]

Creation date	9/22/2025 11:43 AM
Data array type	Linear data array
Horizontal axis	Wavenumber [cm-1]
Vertical axis	%T
Start	499.955 cm-1
End	3000.21 cm-1
Data interval	0.482117 cm-1
Data points	5187

[Measurement Information]

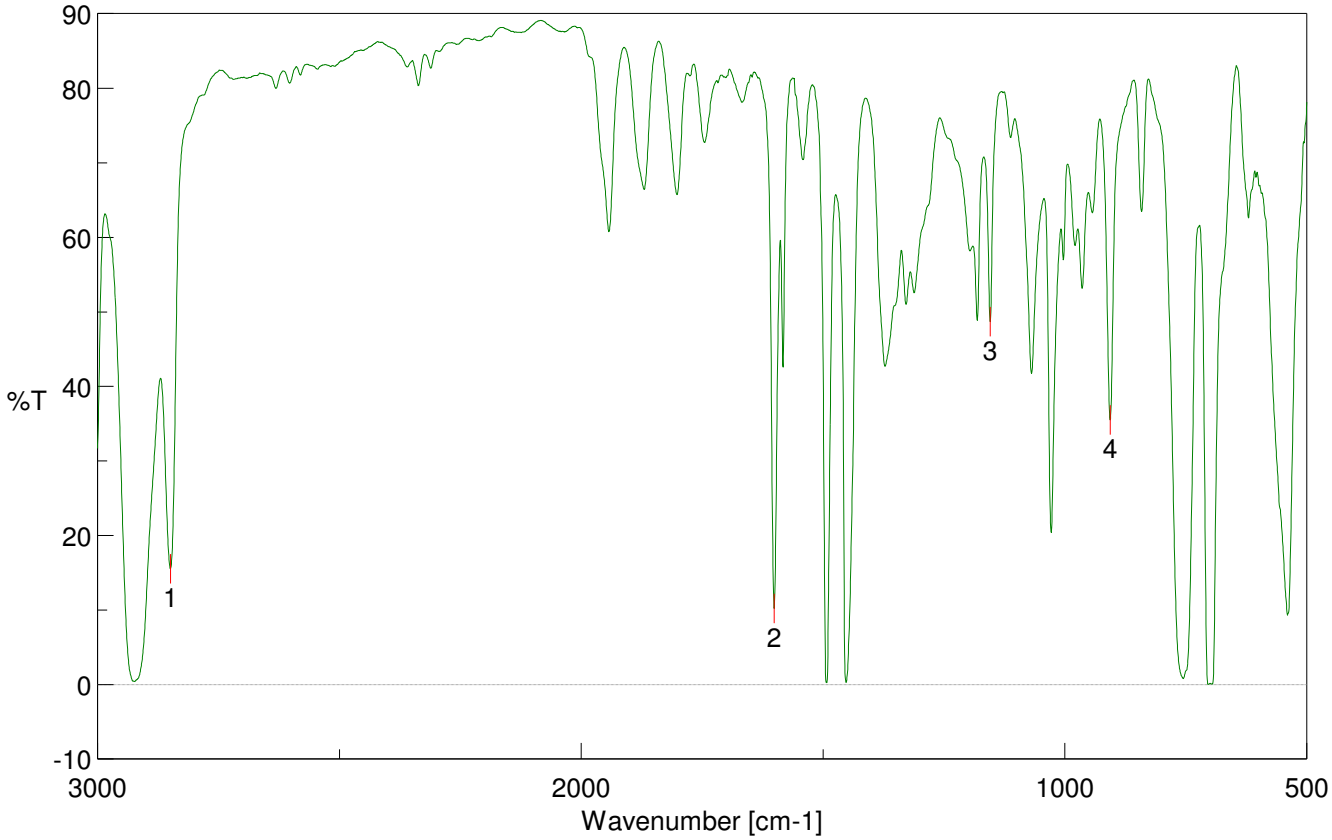
Model Name	FT/IR-4600typeA
Serial Number	D055461786
Measurement Date	9/22/2025 11:42 AM
Light Source	Standard
Detector	TGS
Accumulation	16
Resolution	2 cm-1
Zero Filling	On
Apodization	Cosine
Gain	Auto (2)
Aperture	Auto (5 mm)
Scanning Speed	Auto (2 mm/sec)
Filter	Auto (30000 Hz)

[Result of Peak Picking]

No.	Position	Intensity	No.	Position	Intensity	No.	Position	Intensity
1	2849.31	15.5188	2	1601.11	10.1399	3	1154.67	48.5522
4	906.379	35.4864						

Creation	QPack Soluções Analíticas
Review	
Approval	

Peak Find - 005b - Photometric Repeatability - 2025.jws



[Comments]
Sample name
Comment

User	QPackSA
Workgroup	Instalacao
Division	Suporte Tec. Jasco
Company	libbs

[Detailed Information]

Creation date	9/22/2025 11:45 AM
Data array type	Linear data array
Horizontal axis	Wavenumber [cm-1]
Vertical axis	%T
Start	499.955 cm-1
End	3000.21 cm-1
Data interval	0.482117 cm-1
Data points	5187

[Measurement Information]

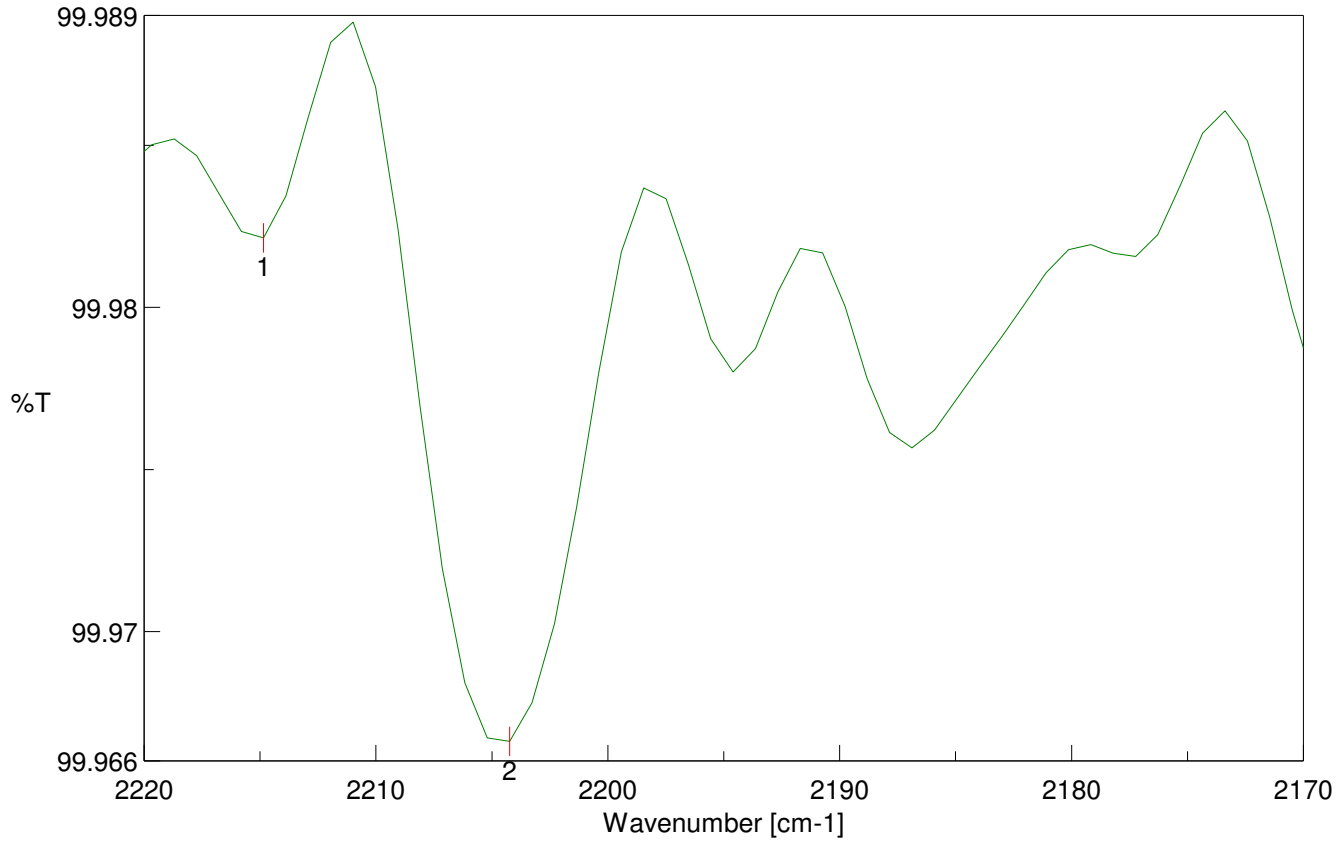
Model Name	FT/IR-4600typeA
Serial Number	D055461786
Measurement Date	9/22/2025 11:44 AM
Light Source	Standard
Detector	TGS
Accumulation	16
Resolution	2 cm-1
Zero Filling	On
Apodization	Cosine
Gain	Auto (2)
Aperture	Auto (5 mm)
Scanning Speed	Auto (2 mm/sec)
Filter	Auto (30000 Hz)

[Result of Peak Picking]

No.	Position	Intensity	No.	Position	Intensity	No.	Position	Intensity
1	2849.31	15.5014	2	1601.11	10.1687	3	1154.67	48.631
4	906.379	35.4492						

Creation	QPack Soluções Analíticas
Review	
Approval	

Peak Find - 006 - Sensitivity - 2025.jws



[Comments]

Sample name	
Comment	
User	QPackSA
Workgroup	Instalacao
Division	Suporte Tec. Jasco
Company	libbs

[Detailed Information]

Creation date	9/22/2025 11:50 AM
Data array type	Linear data array
Horizontal axis	Wavenumber [cm-1]
Vertical axis	%T
Start	499.473 cm-1
End	3000.69 cm-1
Data interval	0.964233 cm-1
Data points	2595

[Measurement Information]

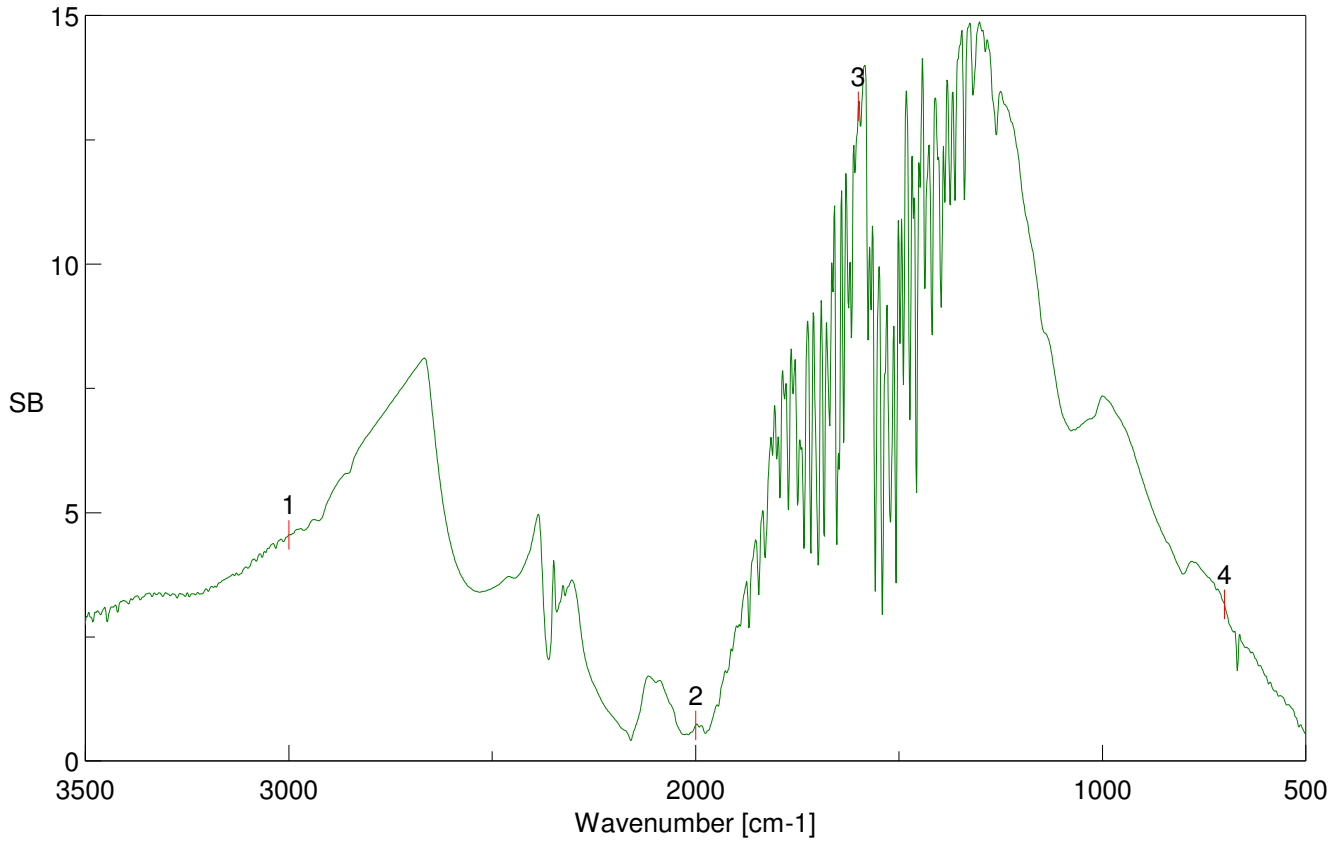
Model Name	FT/IR-4600typeA
Serial Number	D055461786
Measurement Date	9/22/2025 11:49 AM
Light Source	Standard
Detector	TGS
Accumulation	48
Resolution	4 cm-1
Zero Filling	On
Apodization	Cosine
Gain	Auto (1)
Aperture	Auto (7.1 mm)
Scanning Speed	Auto (2 mm/sec)
Filter	Auto (30000 Hz)

[Result of Peak Picking]

No.	Position	Intensity	No.	Position	Intensity	No.	Position	Intensity
1	2214.84	99.9821	2	2204.24	99.9666			

Creation	QPack Soluções Analíticas
Review	
Approval	

Peak Find - 007 - ATR Energy Level - 2025.jws



[Comments]
Sample name
Comment

User	QPackSA
Workgroup	Instalacao
Division	Suporte Tec. Jasco
Company	libbs

[Detailed Information]

Creation date	9/22/2025 11:57 AM
Data array type	Linear data array
Horizontal axis	Wavenumber [cm-1]
Vertical axis	SB
Start	499.473 cm-1
End	3500.17 cm-1
Data interval	0.964233 cm-1
Data points	3113

[Measurement Information]

Model Name	FT/IR-4600typeA
Serial Number	D055461786
Accessory	ATR PRO ONE
Accessory S/N	A051361809
Incident angle	45 deg
Measurement Date	9/22/2025 11:56 AM
Light Source	Standard
Detector	TGS
Accumulation	16
Resolution	4 cm-1
Zero Filling	On
Apodization	Cosine
Gain	Auto (8)
Aperture	Auto (7.1 mm)
Scanning Speed	Auto (2 mm/sec)
Filter	Auto (30000 Hz)

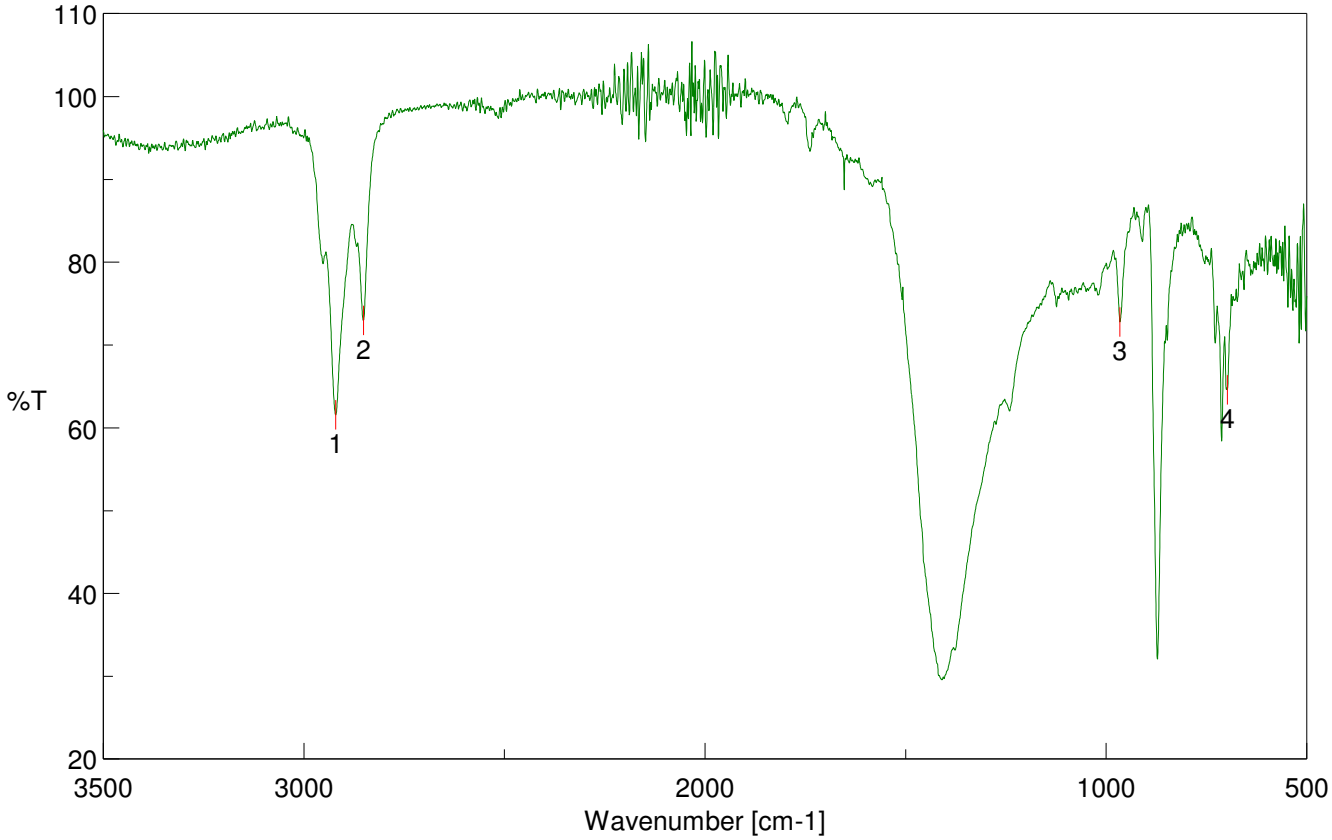
Creation	QPack Soluções Analíticas
Review	
Approval	

[Result of Peak Picking]

No.	Position	Intensity	No.	Position	Intensity	No.	Position	Intensity
1	2999.73	4.54896	2	1999.82	0.714867	3	1599.66	13.1713
4	700.034	3.14901						

Creation QPack Soluções Analíticas
Review
Approval

Peak Find - 008 - ATR Wavenumber Accuracy - 2025.jws



[Comments]

Sample name	
Comment	
User	QPackSA
Workgroup	Instalacao
Division	Suporte Tec. Jasco
Company	libbs

[Detailed Information]

Creation date	9/22/2025 12:09 PM
Data array type	Linear data array
Horizontal axis	Wavenumber [cm-1]
Vertical axis	%T
Start	499.955 cm-1
End	3500.17 cm-1
Data interval	0.482117 cm-1
Data points	6224

[Measurement Information]

Model Name	FT/IR-4600typeA
Serial Number	D055461786
Accessory	ATR PRO ONE
Accessory S/N	A051361809
Incident angle	45 deg
Measurement Date	9/22/2025 12:08 PM
Light Source	Standard
Detector	TGS
Accumulation	16
Resolution	2 cm-1
Zero Filling	On
Apodization	Cosine
Gain	Auto (8)
Aperture	Auto (5 mm)
Scanning Speed	Auto (2 mm/sec)
Filter	Auto (30000 Hz)

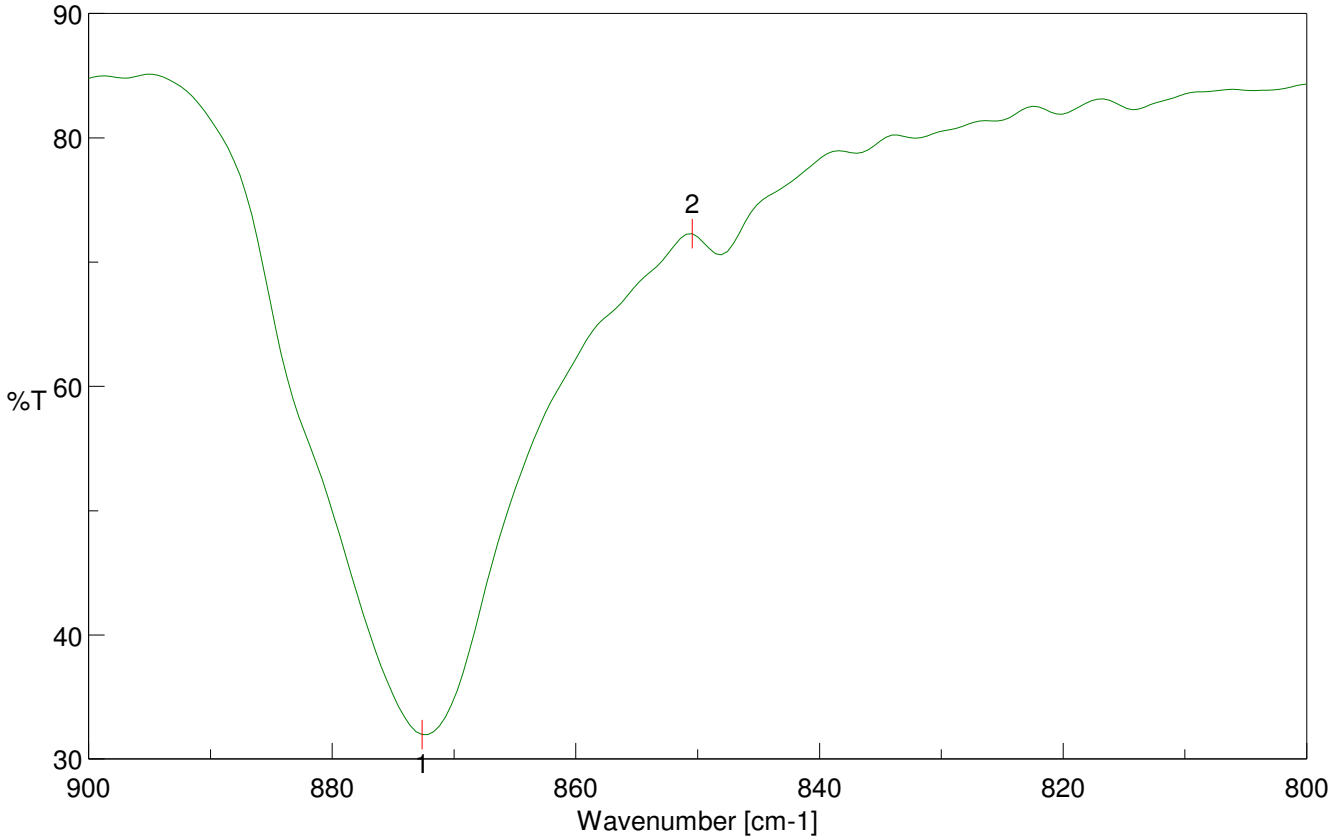
Creation	QPack Soluções Analíticas
Review	
Approval	

[Result of Peak Picking]

No.	Position	Intensity	No.	Position	Intensity	No.	Position	Intensity
1	2920.66	61.5223	2	2851.72	72.9304	3	965.68	72.729
4	698.105	64.5746						

Creation QPack Soluções Analíticas
Review
Approval

Peak Find - 009 - ATR Resolution - 2025.jws



[Comments]
Sample name
Comment

User	QPackSA
Workgroup	Instalacao
Division	Suporte Tec. Jasco
Company	libbs

[Detailed Information]

Creation date	9/22/2025 12:15 PM
Data array type	Linear data array
Horizontal axis	Wavenumber [cm-1]
Vertical axis	%T
Start	499.955 cm-1
End	3500.17 cm-1
Data interval	0.482117 cm-1
Data points	6224

[Measurement Information]

Model Name	FT/IR-4600typeA
Serial Number	D055461786
Accessory	ATR PRO ONE
Accessory S/N	A051361809
Incident angle	45 deg
Measurement Date	9/22/2025 12:14 PM
Light Source	Standard
Detector	TGS
Accumulation	16
Resolution	2 cm-1
Zero Filling	On
Apodization	Cosine
Gain	Auto (8)
Aperture	Auto (5 mm)
Scanning Speed	Auto (2 mm/sec)
Filter	Auto (30000 Hz)

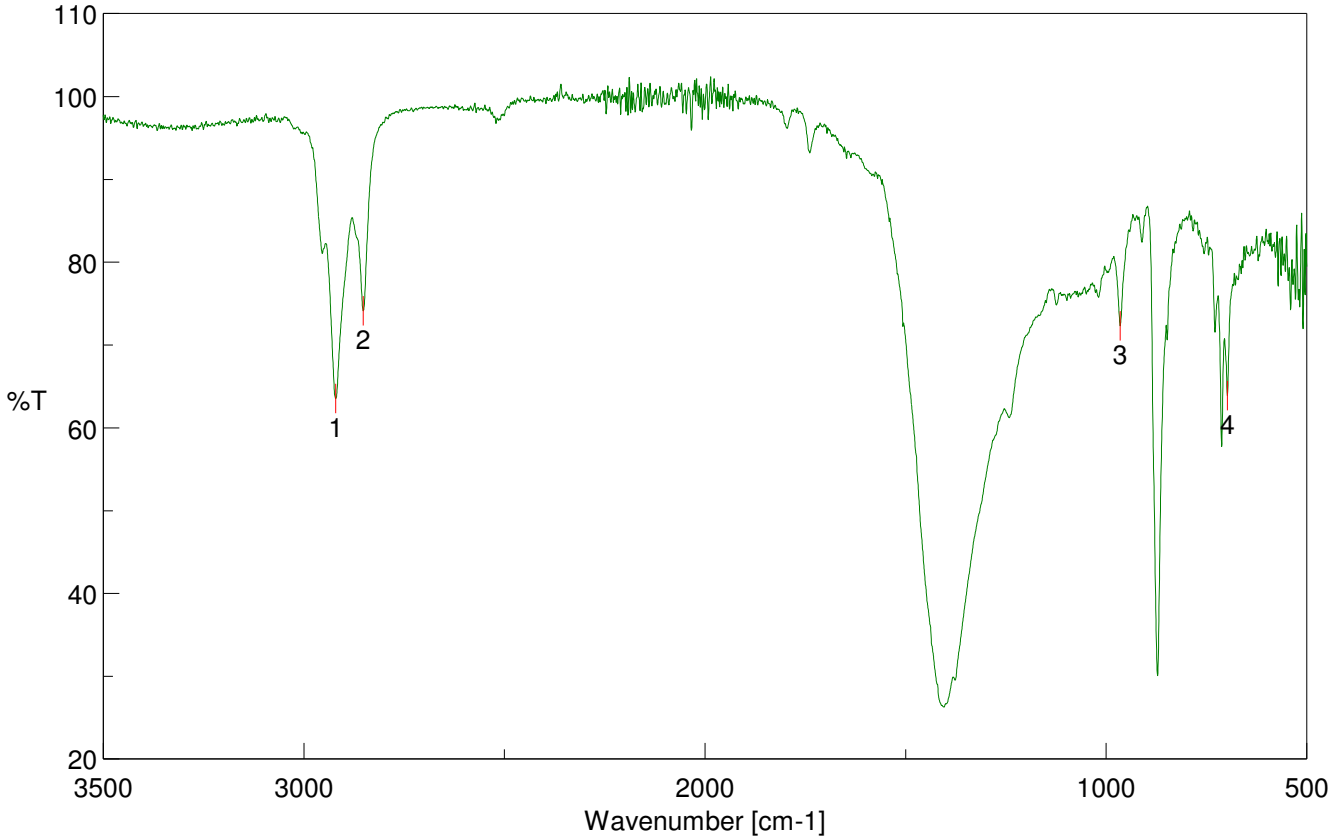
Creation	QPack Soluções Analíticas
Review	
Approval	

[Result of Peak Picking]

No.	Position	Intensity	No.	Position	Intensity	No.	Position	Intensity
1	872.631	31.9452	2	850.454	72.2632			

Creation QPack Soluções Analíticas
Review
Approval

Peak Find - 010b - ATR Wavenumber Repeatability - 2025.jws



[Comments]
Sample name
Comment

User	QPackSA
Workgroup	Instalacao
Division	Suporte Tec. Jasco
Company	libbs

[Detailed Information]

Creation date	9/22/2025 12:21 PM
Data array type	Linear data array
Horizontal axis	Wavenumber [cm-1]
Vertical axis	%T
Start	499.955 cm-1
End	3500.17 cm-1
Data interval	0.482117 cm-1
Data points	6224

[Measurement Information]

Model Name	FT/IR-4600typeA
Serial Number	D055461786
Accessory	ATR PRO ONE
Accessory S/N	A051361809
Incident angle	45 deg
Measurement Date	9/22/2025 12:21 PM
Light Source	Standard
Detector	TGS
Accumulation	16
Resolution	2 cm-1
Zero Filling	On
Apodization	Cosine
Gain	Auto (8)
Aperture	Auto (5 mm)
Scanning Speed	Auto (2 mm/sec)
Filter	Auto (30000 Hz)

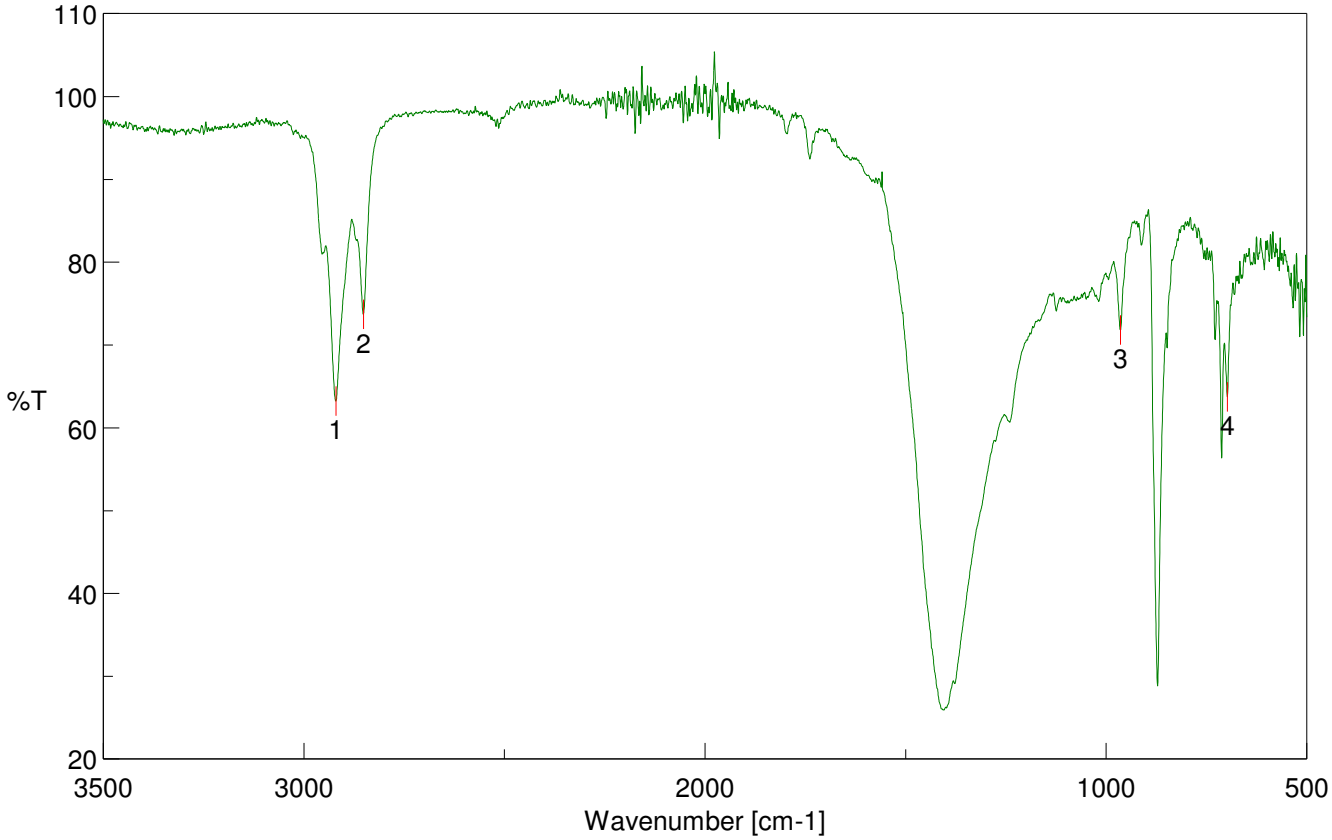
Creation	QPack Soluções Analíticas
Review	
Approval	

[Result of Peak Picking]

No.	Position	Intensity	No.	Position	Intensity	No.	Position	Intensity
1	2920.66	63.4994	2	2852.2	74.1082	3	965.198	72.2903
4	698.105	63.8723						

Creation QPack Soluções Analíticas
Review
Approval

Peak Find - 010c - ATR Wavenumber Repeatability - 2025.jws



[Comments]

Sample name	
Comment	
User	QPackSA
Workgroup	Instalacao
Division	Suporte Tec. Jasco
Company	libbs

[Detailed Information]

Creation date	9/22/2025 12:26 PM
Data array type	Linear data array
Horizontal axis	Wavenumber [cm-1]
Vertical axis	%T
Start	499.955 cm-1
End	3500.17 cm-1
Data interval	0.482117 cm-1
Data points	6224

[Measurement Information]

Model Name	FT/IR-4600typeA
Serial Number	D055461786
Accessory	ATR PRO ONE
Accessory S/N	A051361809
Incident angle	45 deg
Measurement Date	9/22/2025 12:23 PM
Light Source	Standard
Detector	TGS
Accumulation	16
Resolution	2 cm-1
Zero Filling	On
Apodization	Cosine
Gain	Auto (8)
Aperture	Auto (5 mm)
Scanning Speed	Auto (2 mm/sec)
Filter	Auto (30000 Hz)

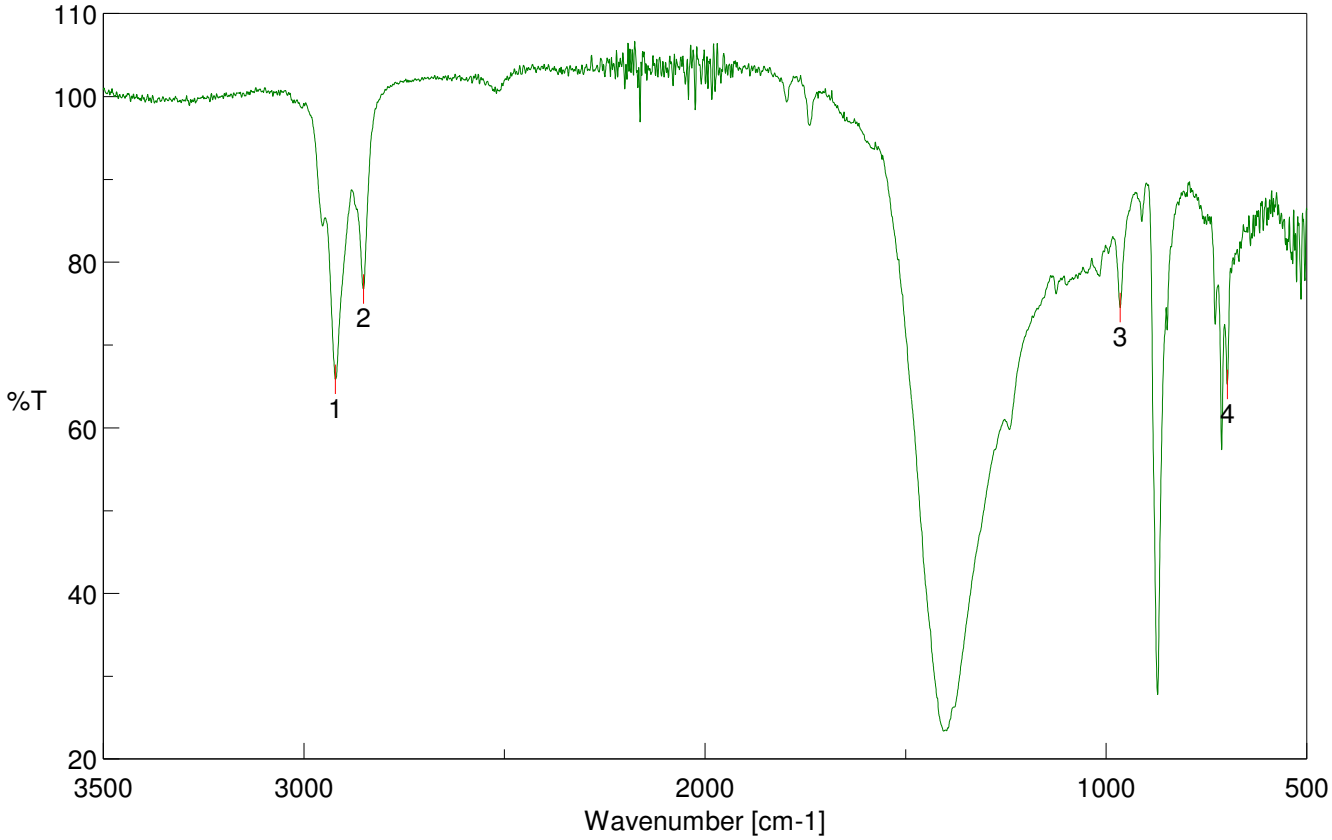
Creation	QPack Soluções Analíticas
Review	
Approval	

[Result of Peak Picking]

No.	Position	Intensity	No.	Position	Intensity	No.	Position	Intensity
1	2920.18	63.1884	2	2851.72	73.6766	3	964.716	71.7946
4	698.105	63.7203						

Creation QPack Soluções Analíticas
Review
Approval

Peak Find - 011a - ATR Photometric Repeatability - 2025.jws



[Comments]
Sample name
Comment

User	QPackSA
Workgroup	Instalacao
Division	Suporte Tec. Jasco
Company	libbs

[Detailed Information]

Creation date	9/22/2025 12:29 PM
Data array type	Linear data array
Horizontal axis	Wavenumber [cm-1]
Vertical axis	%T
Start	499.955 cm-1
End	3500.17 cm-1
Data interval	0.482117 cm-1
Data points	6224

[Measurement Information]

Model Name	FT/IR-4600typeA
Serial Number	D055461786
Accessory	ATR PRO ONE
Accessory S/N	A051361809
Incident angle	45 deg
Measurement Date	9/22/2025 12:28 PM
Light Source	Standard
Detector	TGS
Accumulation	16
Resolution	2 cm-1
Zero Filling	On
Apodization	Cosine
Gain	Auto (8)
Aperture	Auto (5 mm)
Scanning Speed	Auto (2 mm/sec)
Filter	Auto (30000 Hz)

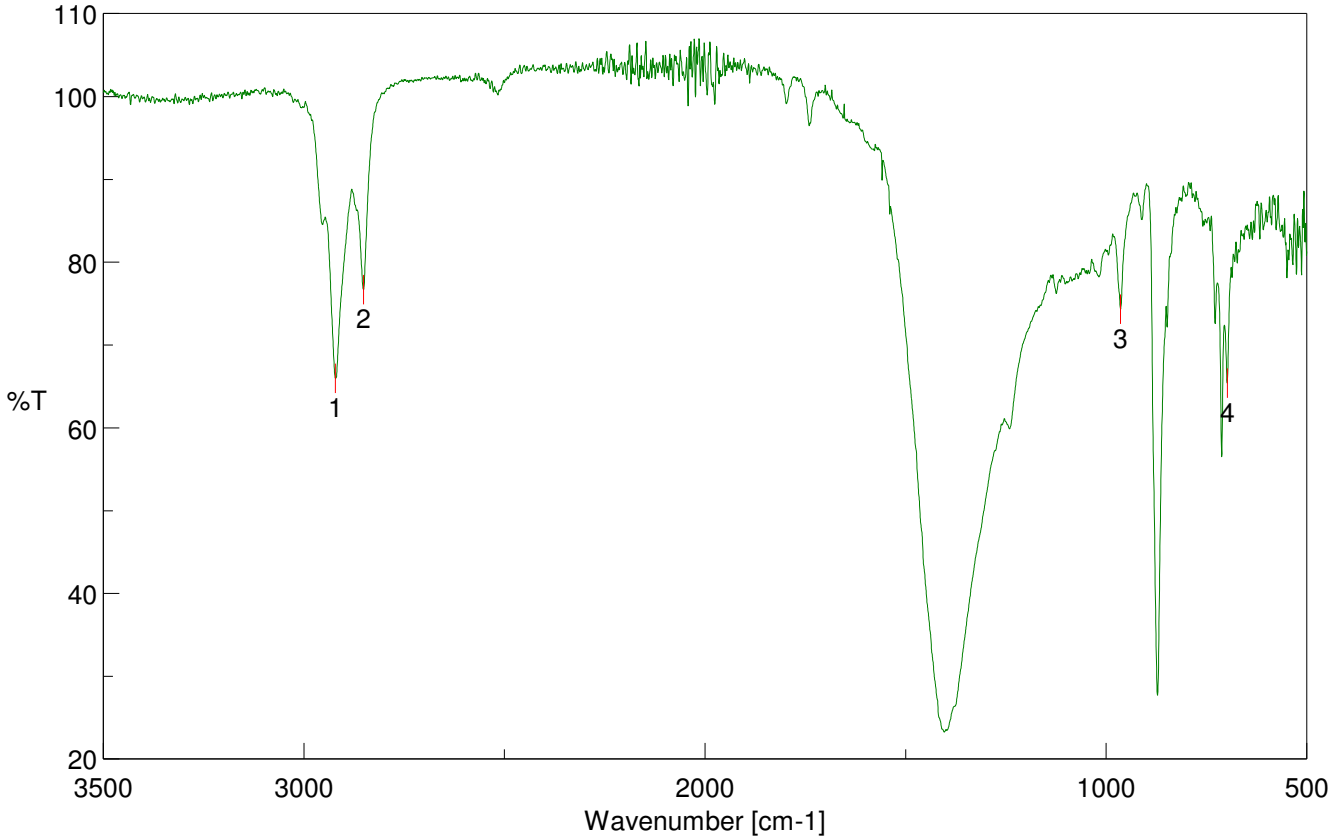
Creation	QPack Soluções Analíticas
Review	
Approval	

[Result of Peak Picking]

No.	Position	Intensity	No.	Position	Intensity	No.	Position	Intensity
1	2921.15	65.8337	2	2851.72	76.7177	3	965.198	74.4965
4	698.105	65.2217						

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Peak Find - 011b - ATR Photometric Repeatability - 2025.jws



[Comments]
Sample name
Comment

User	QPackSA
Workgroup	Instalacao
Division	Suporte Tec. Jasco
Company	libbs

[Detailed Information]

Creation date	9/22/2025 12:30 PM
Data array type	Linear data array
Horizontal axis	Wavenumber [cm-1]
Vertical axis	%T
Start	499.955 cm-1
End	3500.17 cm-1
Data interval	0.482117 cm-1
Data points	6224

[Measurement Information]

Model Name	FT/IR-4600typeA
Serial Number	D055461786
Accessory	ATR PRO ONE
Accessory S/N	A051361809
Incident angle	45 deg
Measurement Date	9/22/2025 12:29 PM
Light Source	Standard
Detector	TGS
Accumulation	16
Resolution	2 cm-1
Zero Filling	On
Apodization	Cosine
Gain	Auto (8)
Aperture	Auto (5 mm)
Scanning Speed	Auto (2 mm/sec)
Filter	Auto (30000 Hz)

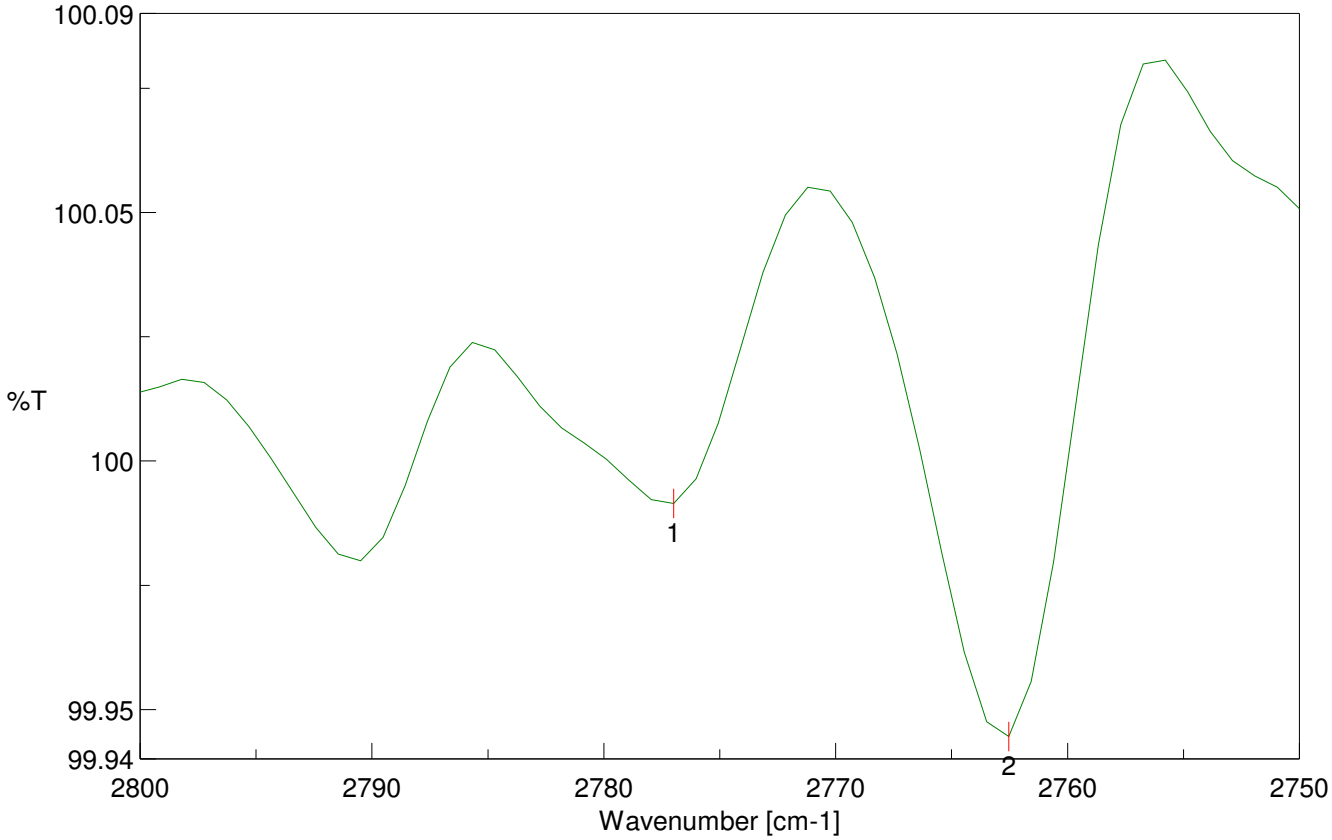
Creation	QPack Soluções Analíticas
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[Result of Peak Picking]

No.	Position	Intensity	No.	Position	Intensity	No.	Position	Intensity
1	2921.15	65.9648	2	2851.24	76.6542	3	964.233	74.282
4	698.105	65.3623						

Creation QPack Soluções Analíticas
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Peak Find - 012 - ATR Sensitivity - 2025.jws



[Comments]
Sample name
Comment

User	QPackSA
Workgroup	Instalacao
Division	Suporte Tec. Jasco
Company	libbs

[Detailed Information]

Creation date	9/22/2025 12:36 PM
Data array type	Linear data array
Horizontal axis	Wavenumber [cm-1]
Vertical axis	%T
Start	499.473 cm-1
End	3500.17 cm-1
Data interval	0.964233 cm-1
Data points	3113

[Measurement Information]

Model Name	FT/IR-4600typeA
Serial Number	D055461786
Accessory	ATR PRO ONE
Accessory S/N	A051361809
Incident angle	45 deg
Measurement Date	9/22/2025 12:35 PM
Light Source	Standard
Detector	TGS
Accumulation	48
Resolution	4 cm-1
Zero Filling	On
Apodization	Cosine
Gain	Auto (8)
Aperture	Auto (7.1 mm)
Scanning Speed	Auto (2 mm/sec)
Filter	Auto (30000 Hz)

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[Result of Peak Picking]

No.	Position	Intensity	No.	Position	Intensity	No.	Position	Intensity
1	2776.99	99.9914	2	2762.53	99.9445			

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