

Sample: JIE

Operator:

File: D:\Lvyupeng\wyc\201905\94-sa\94-SA.SMP

Started:	2019/5/4 21:30:56	Analysis adsorptive:	N2
Completed:	2019/5/5 1:46:56	Analysis bath temp.:	-195.850 °C
Report time:	2019/5/5 7:03:18	Thermal correction:	No
Sample mass:	0.1052 g	Ambient free space:	16.7379 cm ³ Measured
Analysis free space:	48.5991 cm ³	Equilibration interval:	5 s
Low pressure dose:	None	Sample density:	1.000 g/cm ³
Automatic degas:	No		

Summary Report

Surface Area

Single point surface area at $P/P_o = 0.294967007$: 54.3275 m²/gBET Surface Area: 59.0279 m²/gLangmuir Surface Area: 1,356.6990 m²/gt-Plot external surface area: 74.2411 m²/gBJH Adsorption cumulative surface area of pores
between 1.7000 nm and 300.0000 nm diameter: 64.3843 m²/gBJH Desorption cumulative surface area of pores
between 1.7000 nm and 300.0000 nm diameter: 73.3474 m²/gD-H Adsorption cumulative surface area of pores
between 1.7000 nm and 300.0000 nm diameter: 67.3541 m²/gD-H Desorption cumulative surface area of pores
between 1.7000 nm and 300.0000 nm diameter: 76.4272 m²/g

Pore Volume

Single point adsorption total pore volume of pores
less than 219.2325 nm diameter at $P/P_o = 0.991189854$: 0.401980 cm³/gSingle point desorption total pore volume of pores
less than 40.3122 nm diameter at $P/P_o = 0.950000000$: 0.292624 cm³/gt-Plot micropore volume: -0.009377 cm³/gBJH Adsorption cumulative volume of pores
between 1.7000 nm and 300.0000 nm diameter: 0.401491 cm³/g

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Automatic degas:	No		

Pore Volume

BJH Desorption cumulative volume of pores
between 1.7000 nm and 300.0000 nm diameter: 0.401474 cm³/g

D-H Adsorption cumulative volume of pores
between 1.7000 nm and 300.0000 nm diameter: 0.403691 cm³/g

D-H Desorption cumulative volume of pores
between 1.7000 nm and 300.0000 nm diameter: 0.404539 cm³/g

Pore Size

Adsorption average pore diameter (4V/A by BET): 27.2400 nm

Desorption average pore diameter (4V/A by BET): 19.8296 nm

BJH Adsorption average pore diameter (4V/A): 24.9434 nm

BJH Desorption average pore diameter (4V/A): 21.8944 nm

D-H Adsorption average pore diameter (4V/A): 23.9743 nm

D-H Desorption average pore diameter (4V/A): 21.1725 nm

Freundlich

Q_m·C: 0.2925 ± 0.0790 cm³/g STP

m: 1.2646 ± 0.1712

Temkin

q·alpha/Q_m: 0.019954 ± 0.006811 kJ/mol·(cm³/g STP)

A: 0.0108 ± 0.0272 mmHg

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DFT Pore Size

Volume in Pores	<	1.859 nm	0.00000 cm ³ /g
Total Volume in Pores	<=	147.596 nm	0.37928 cm ³ /g
Area in Pores	>	147.596 nm	5.948 m ² /g
Total Area in Pores	>=	1.859 nm	36.418 m ² /g

Total Area : 155.709 m²/g

Nanoparticle Size:

Average Particle Size 101.6469 nm

Horvath-Kawazoe

Maximum pore volume at P/Po = 0.155290204: 0.021059 cm³/g

Median pore width: 1.0482 nm

MP-Method

Cumulative surface area of pores between
1.92272 nm and 1.92272 nm hydraulic radius: 0.0000 m²/gCumulative pore volume of pores between
1.92272 nm and 1.92272 nm hydraulic radius: 0.000000 cm³/g

Average pore hydraulic radius (V/A): 0.00000 nm

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Low pressure dose:	None	Sample density:	1.000 g/cm ³
Automatic degas:	No		

Isotherm Tabular Report

Relative Pressure (P/Po)	Absolute Pressure (mmHg)	Quantity Adsorbed (cm ³ /g STP)	Elapsed Time (h:min)	Saturation Pressure (mmHg)
			00:45	758.735291
0.047761559	36.240902	8.4634	00:59	758.788086
0.095354385	72.360580	11.2448	01:01	758.859497
0.119744621	90.864388	12.3061	01:03	758.818115
0.155290204	117.844574	13.6147	01:05	758.866760
0.190236219	144.368866	14.7306	01:06	758.892639
0.225164998	170.873489	15.7593	01:07	758.881226
0.260097832	197.388474	16.7330	01:09	758.900879
0.294967007	223.851639	17.7037	01:10	758.903992
0.330137538	250.538605	18.6579	01:11	758.891602
0.364780395	276.856720	19.6049	01:13	758.968201
0.399691981	303.361359	20.6019	01:14	758.987854
0.434723686	329.940552	21.6336	01:15	758.966125
0.469655534	356.455536	22.7161	01:16	758.972290
0.504607441	382.969482	23.8704	01:18	758.945374
0.539522238	409.488586	25.0887	01:19	758.983704
0.574428190	435.987000	26.4339	01:21	758.993042
0.609348693	462.492645	27.9217	01:22	758.995056
0.644244047	489.001404	29.5840	01:24	759.031311
0.679043339	515.435547	31.4946	01:25	759.061340
0.713865456	541.857300	33.7492	01:27	759.046814
0.748565205	568.174377	36.4595	01:29	759.017883
0.782967550	594.342285	39.8385	01:32	759.089294
0.817421188	620.514282	44.1909	01:34	759.112061
0.851255844	646.223206	49.9925	01:37	759.140991
0.884405393	671.382935	58.2706	01:41	759.134827
0.920680811	698.936096	75.0801	01:47	759.151367
0.958090084	727.211426	136.8546	02:03	759.021973
0.991189854	752.435425	259.8784	02:26	759.123413
0.961806577	730.174683	214.7469	02:36	759.169983

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Low pressure dose:	None	Sample density:	1.000 g/cm ³
Automatic degas:	No		

Isotherm Tabular Report

Relative Pressure (P/Po)	Absolute Pressure (mmHg)	Quantity Adsorbed (cm ³ /g STP)	Elapsed Time (h:min)	Saturation Pressure (mmHg)
0.930452018	706.427124	138.9788	02:54	759.230042
0.886184837	672.731934	71.3118	03:15	759.132751
0.848044580	643.723083	56.1866	03:22	759.067505
0.812671837	616.856812	49.1004	03:25	759.047852
0.774021433	587.532959	43.9796	03:28	759.065491
0.753122638	571.676392	41.7644	03:30	759.074768
0.717154472	544.365723	38.6093	03:32	759.063416
0.681932821	517.621765	35.8746	03:34	759.050964
0.646624447	490.834290	33.3194	03:36	759.071655
0.611267681	463.987762	31.0219	03:38	759.058228
0.575880832	437.116364	29.1169	03:39	759.039612
0.540937392	410.609680	27.5213	03:41	759.070618
0.505800540	383.929962	26.1161	03:42	759.054077
0.470692186	357.281311	24.8409	03:44	759.055115
0.435665337	330.698975	23.6030	03:45	759.066528
0.400425059	303.950897	22.5115	03:47	759.070618
0.365692466	277.591339	21.4817	03:48	759.084106
0.330659385	250.998627	20.4548	03:49	759.085144
0.295480986	224.309601	19.4343	03:51	759.133789
0.260418510	197.687897	18.4187	03:52	759.116150
0.225417579	171.126297	17.3484	03:54	759.152405
0.190295647	144.464188	16.2147	03:55	759.156555
0.155345998	117.931610	14.9608	03:57	759.154480
0.120354043	91.367935	13.5400	03:59	759.159668
0.085484791	64.898552	11.8659	04:00	759.182434
0.050774169	38.547276	9.6989	04:03	759.190674

Sample: JIE

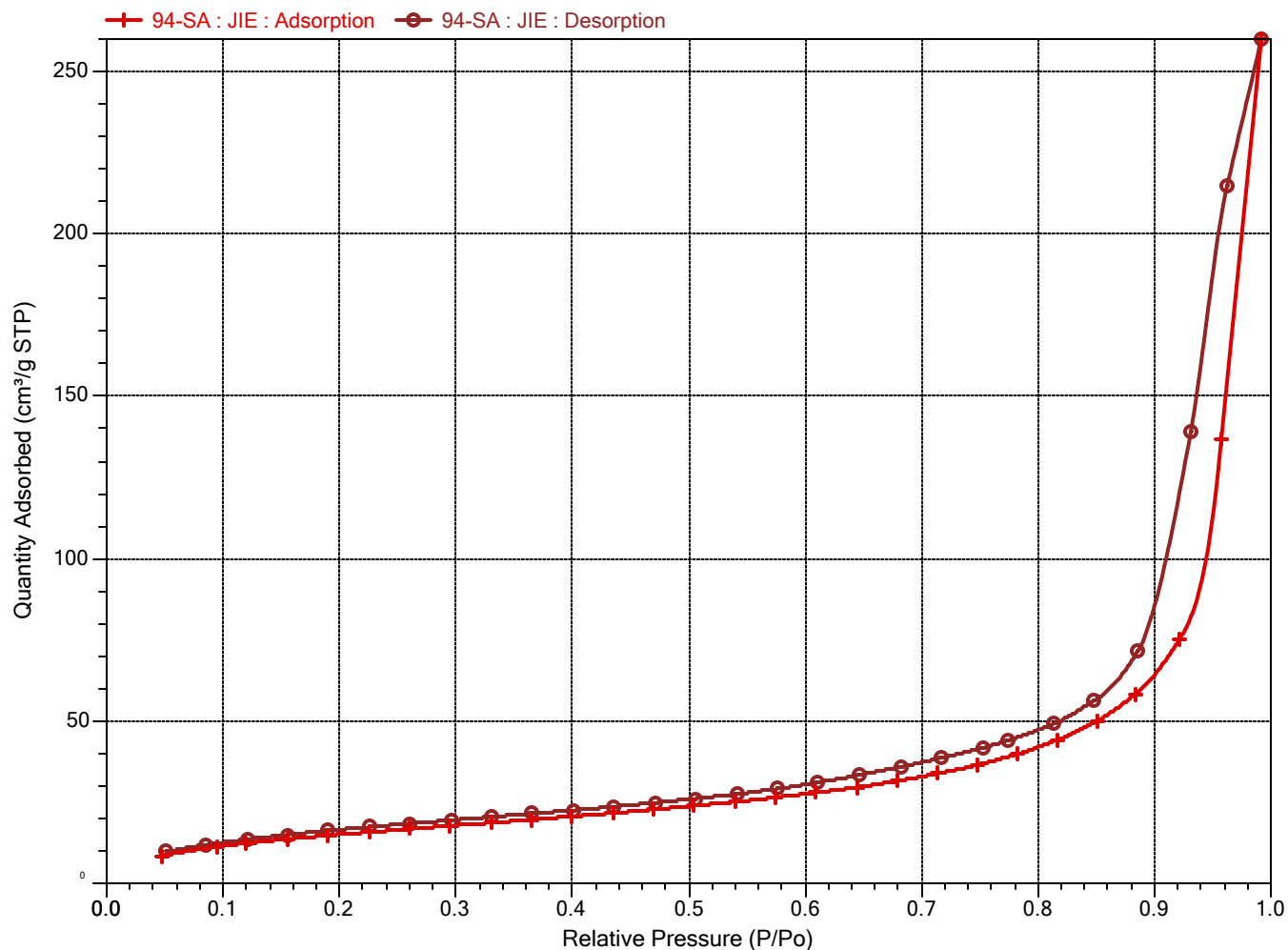
Operator:

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Report time: 2019/5/5 7:03:18
Sample mass: 0.1052 g
Analysis free space: 48.5991 cm³
Low pressure dose: None
Automatic degas: No

Analysis adsorptive: N₂
Analysis bath temp.: -195.850 °C
Thermal correction: No
Ambient free space: 16.7379 cm³ Measured
Equilibration interval: 5 s
Sample density: 1.000 g/cm³

Isotherm Linear Plot



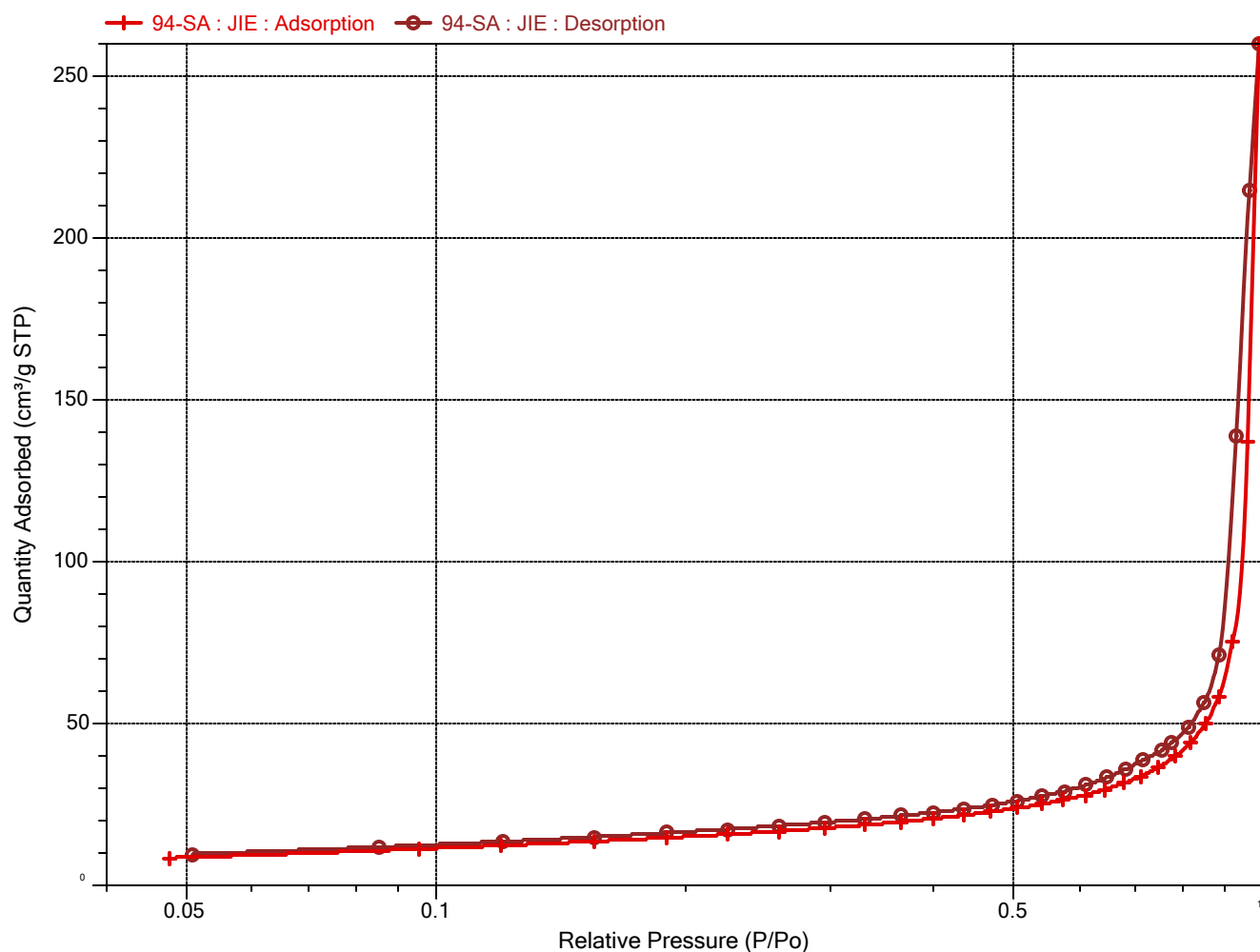
Sample: JIE

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Low pressure dose:	None	Sample density:	1.000 g/cm ³
Automatic degas:	No		

Isotherm Log Plot



Sample: JIE

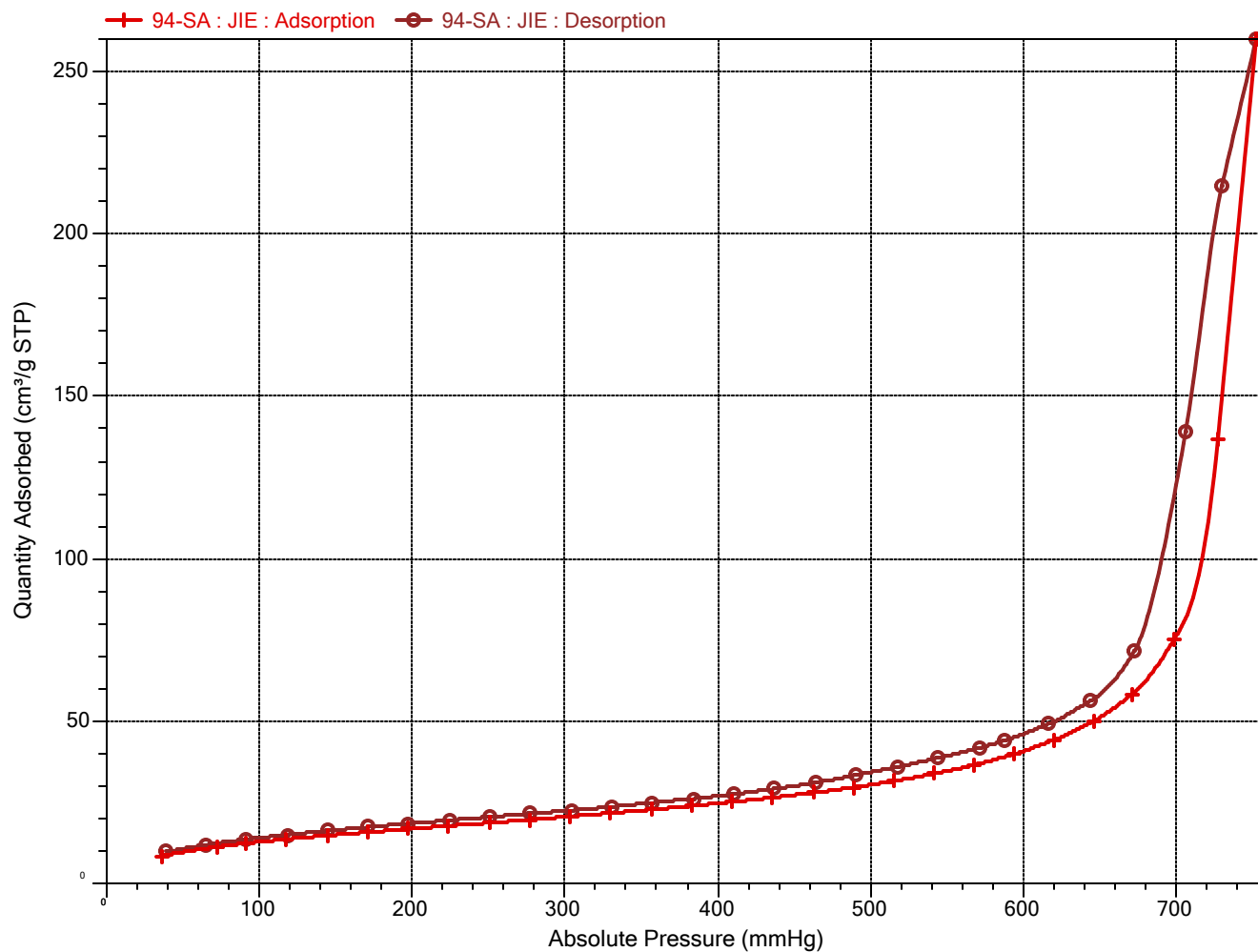
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Automatic degas: No

Analysis adsorptive: N₂
Analysis bath temp.: -195.850 °C
Thermal correction: No
Ambient free space: 16.7379 cm³ Measured
Equilibration interval: 5 s
Sample density: 1.000 g/cm³

Isotherm Linear Absolute Plot



Sample: JIE

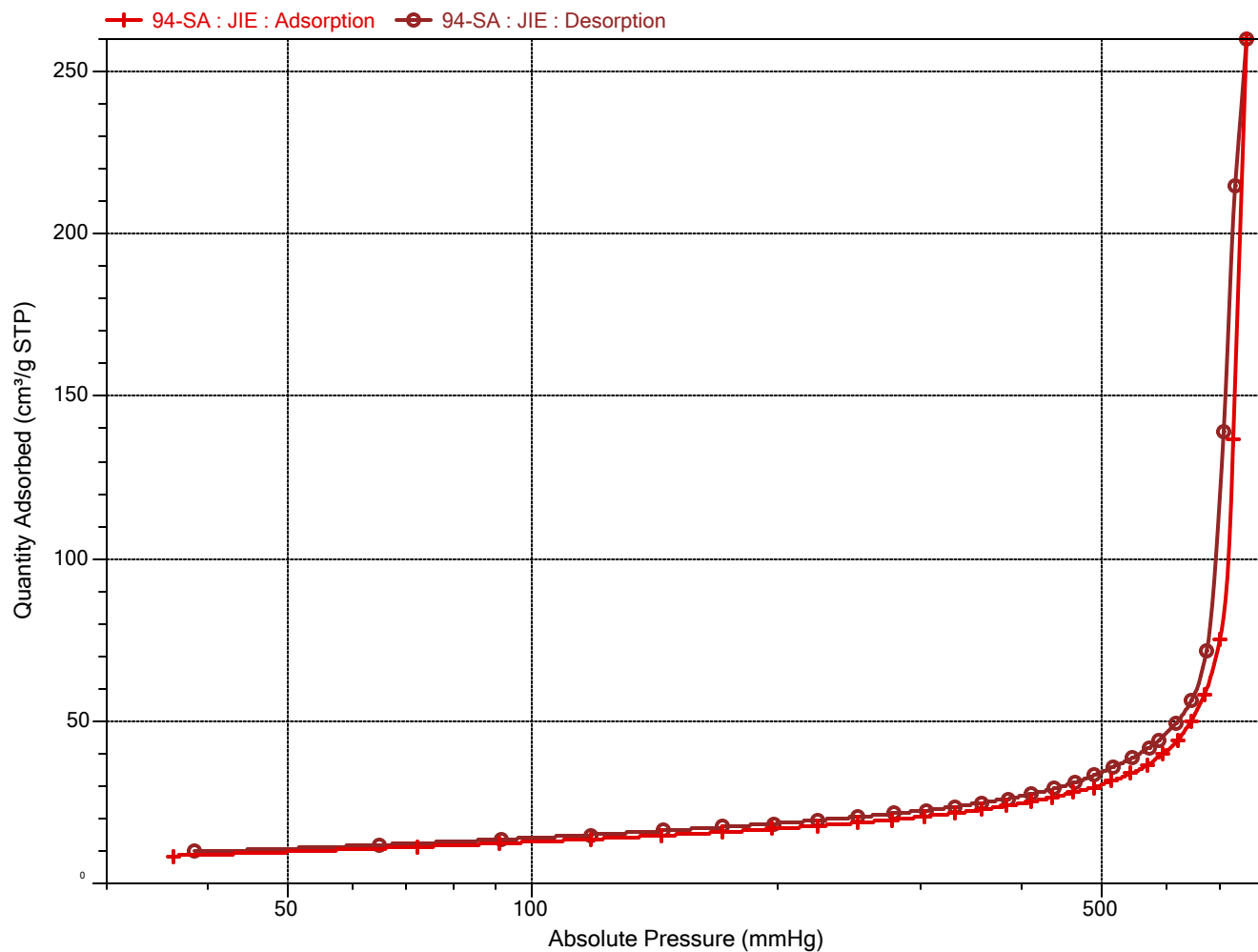
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 Low pressure dose: None
 Automatic degas: No

Analysis adsorptive: N₂
 Analysis bath temp.: -195.850 °C
 Thermal correction: No
 Ambient free space: 16.7379 cm³ Measured
 Equilibration interval: 5 s
 Sample density: 1.000 g/cm³

Isotherm Log Absolute Plot



Sample: JIE

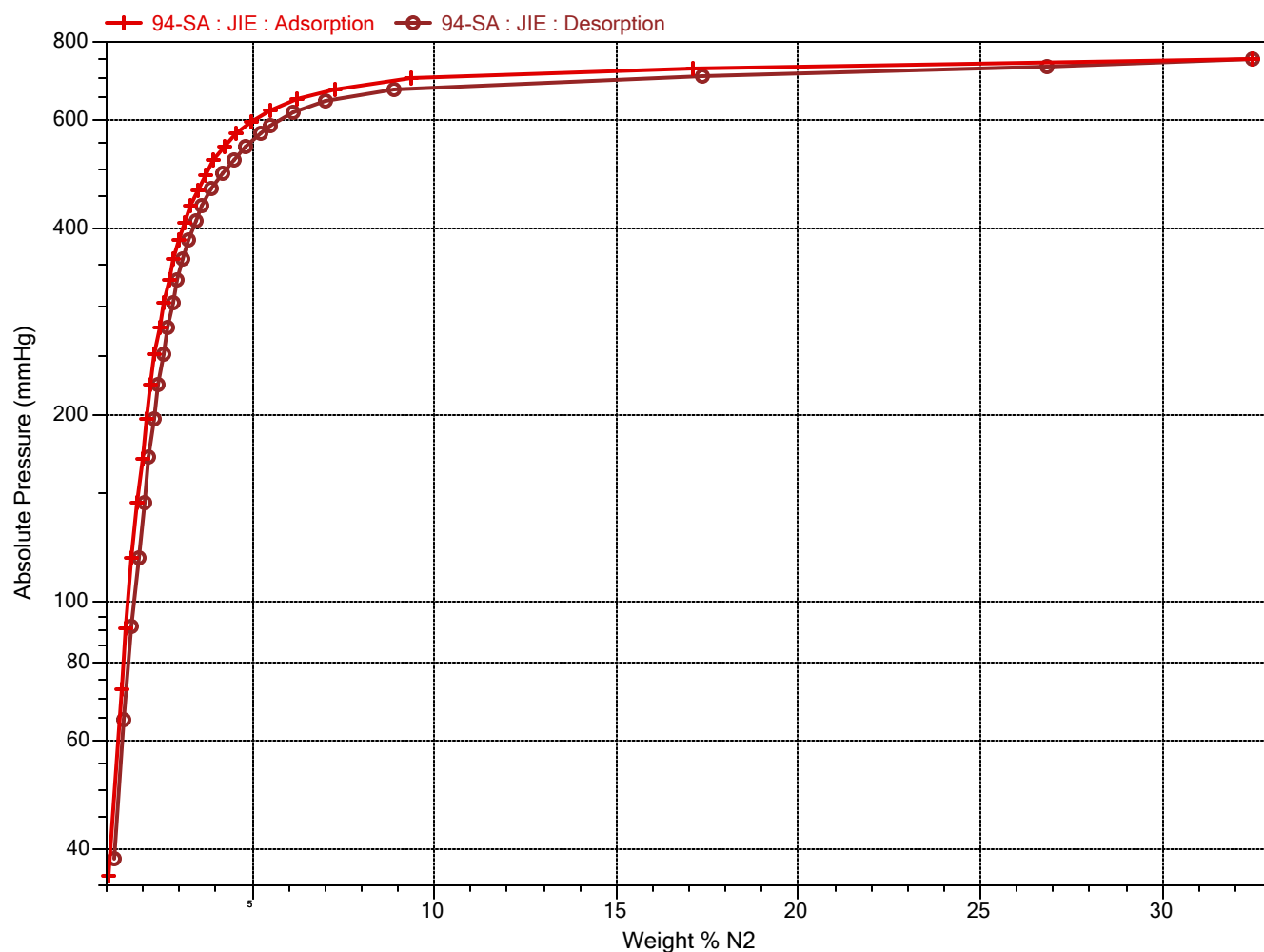
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Automatic degas: No

Analysis adsorptive: N2
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Thermal correction: No
Ambient free space: 16.7379 cm³ Measured
Equilibration interval: 5 s
Sample density: 1.000 g/cm³

Isotherm Pressure Composition



Sample: JIE

Operator:

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Automatic degas:	No		

BET Report

BET surface area: 59.0279 ± 0.4344 m²/g
Slope: 0.071248 ± 0.000532 g/cm³ STP
Y-intercept: 0.002489 ± 0.000108 g/cm³ STP
C: 29.621242
Qm: 13.5616 cm³/g STP
Correlation coefficient: 0.9998607
Molecular cross-sectional area: 0.1620 nm²

Relative Pressure (P/Po)	Quantity Adsorbed (cm ³ /g STP)	1/[Q(Po/P - 1)]
0.095354385	11.2448	0.009374
0.119744621	12.3061	0.011054
0.155290204	13.6147	0.013503
0.190236219	14.7306	0.015948
0.225164998	15.7593	0.018440
0.260097832	16.7330	0.021008
0.294967007	17.7037	0.023632

Sample: JIE

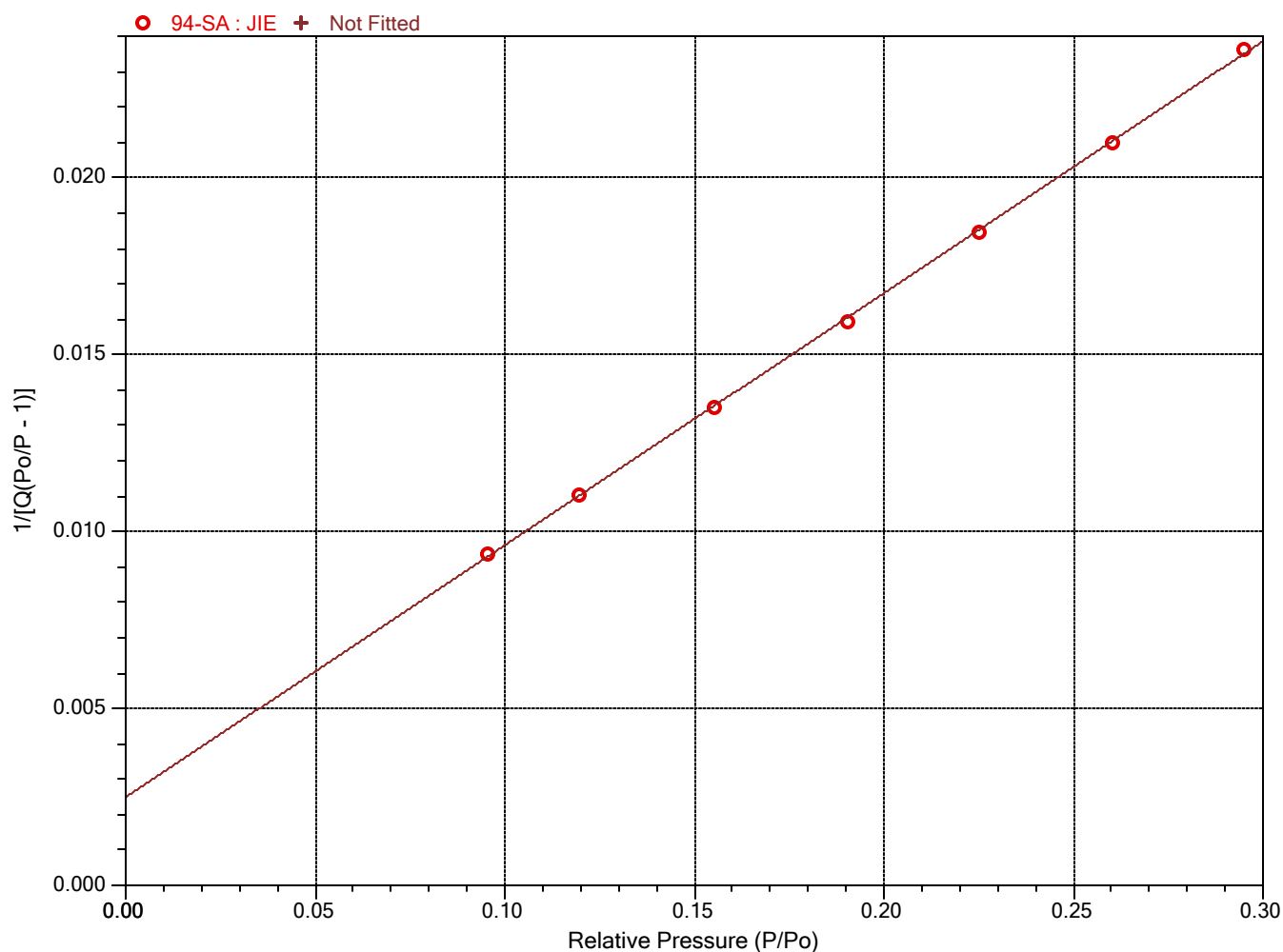
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 Automatic degas: No

Analysis adsorptive: N₂
 Analysis bath temp.: -195.850 °C
 Thermal correction: No
 Ambient free space: 16.7379 cm³ Measured
 Equilibration interval: 5 s
 Sample density: 1.000 g/cm³

BET Surface Area Plot



Sample: JIE

Operator:

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Low pressure dose:	None	Sample density:	1.000 g/cm ³
Automatic degas:	No		

BJH Adsorption Pore Distribution Report

Faas Correction

Harkins and Jura

$$t = [13.99 / (0.034 - \log(P/P_o))] ^{0.5}$$

Diameter range: 1.7000 to 300.0000 nm
 Adsorbate property factor: 0.95300 nm
 Density conversion factor: 0.0015468
 Fraction of pores open at both ends: 0.00

Pore Diameter Range (nm)	Average Diameter (nm)	Incremental Pore Volume (cm ³ /g)	Cumulative Pore Volume (cm ³ /g)	Incremental Pore Area (m ² /g)	Cumulative Pore Area (m ² /g)
219.1 - 47.6	54.7	0.213954	0.213954	15.641	15.641
47.6 - 25.7	30.4	0.111076	0.325030	14.609	30.251
25.7 - 17.9	20.4	0.027932	0.352962	5.488	35.738
17.9 - 14.0	15.4	0.012575	0.365537	3.256	38.995
14.0 - 11.5	12.5	0.008221	0.373758	2.641	41.636
11.5 - 9.6	10.4	0.005710	0.379468	2.201	43.837
9.6 - 8.3	8.9	0.004090	0.383558	1.846	45.683
8.3 - 7.3	7.7	0.002956	0.386514	1.534	47.216
7.3 - 6.4	6.8	0.002233	0.388746	1.314	48.530
6.4 - 5.8	6.1	0.001704	0.390450	1.125	49.655
5.8 - 5.2	5.4	0.001337	0.391787	0.981	50.636
5.2 - 4.7	4.9	0.001117	0.392904	0.906	51.542
4.7 - 4.3	4.5	0.000938	0.393842	0.836	52.378
4.3 - 3.9	4.1	0.000760	0.394601	0.741	53.118
3.9 - 3.6	3.8	0.000733	0.395335	0.779	53.898
3.6 - 3.3	3.5	0.000655	0.395990	0.758	54.655
3.3 - 3.1	3.2	0.000607	0.396597	0.762	55.417
3.1 - 2.8	2.9	0.000602	0.397199	0.819	56.237
2.8 - 2.6	2.7	0.000529	0.397728	0.780	57.017
2.6 - 2.4	2.5	0.000567	0.398295	0.906	57.923
2.4 - 2.2	2.3	0.000677	0.398972	1.176	59.099
2.2 - 2.0	2.1	0.000670	0.399642	1.265	60.363

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Low pressure dose:	None	Sample density:	1.000 g/cm ³
Automatic degas:	No		

Pore Diameter Range (nm)	Average Diameter (nm)	Incremental Pore Volume (cm ³ /g)	Cumulative Pore Volume (cm ³ /g)	Incremental Pore Area (m ² /g)	Cumulative Pore Area (m ² /g)
2.0 - 1.9	1.9	0.000822	0.400463	1.694	62.057
1.9 - 1.7	1.8	0.001028	0.401491	2.327	64.384

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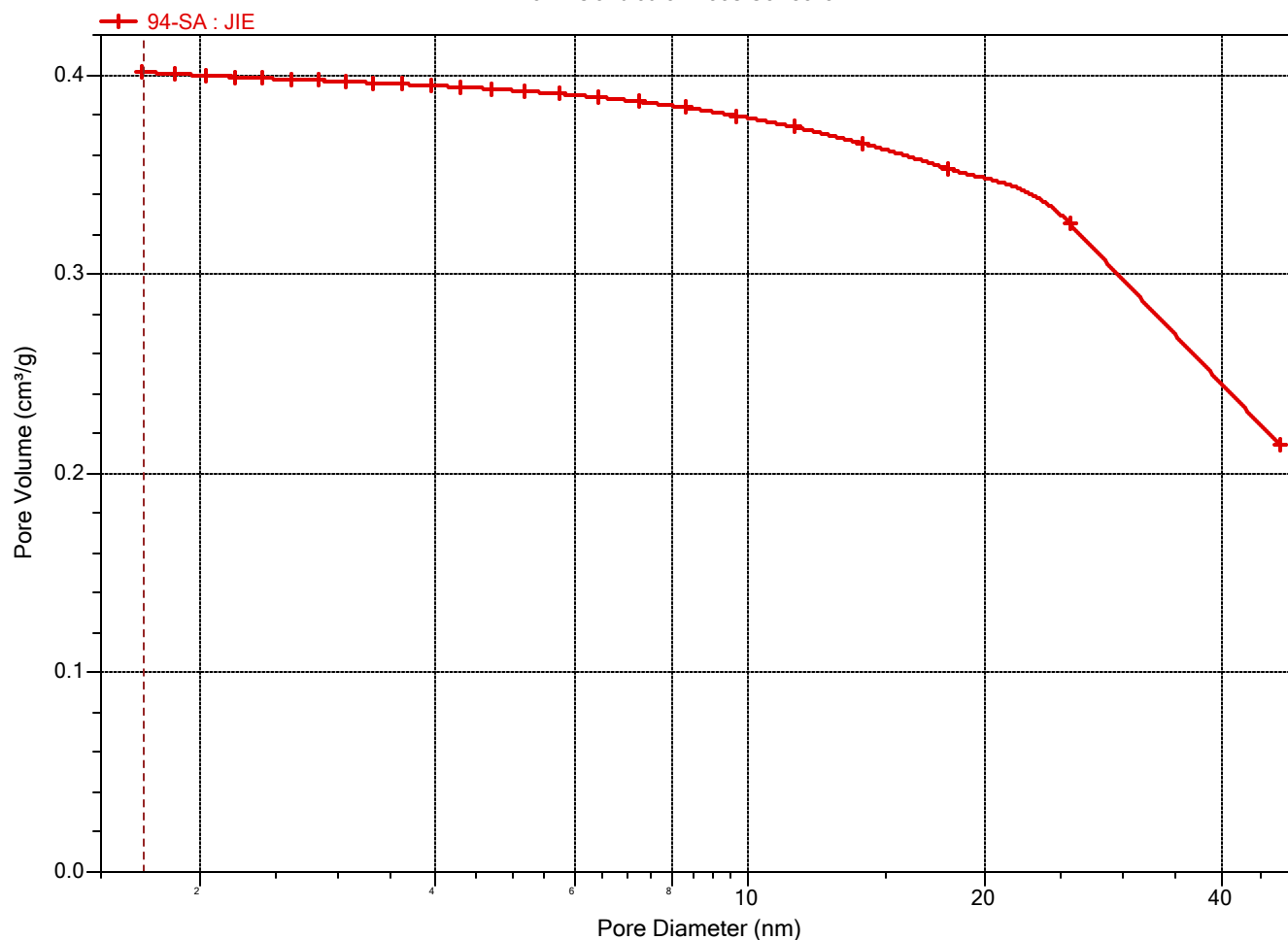
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Analysis free space:	48.5991 cm ³	Equilibration interval:	5 s
Low pressure dose:	None	Sample density:	1.000 g/cm ³
Automatic degas:	No		

BJH Adsorption Cumulative Pore Volume (Larger)

Harkins and Jura : Faas Correction



Sample: JIE

Operator:

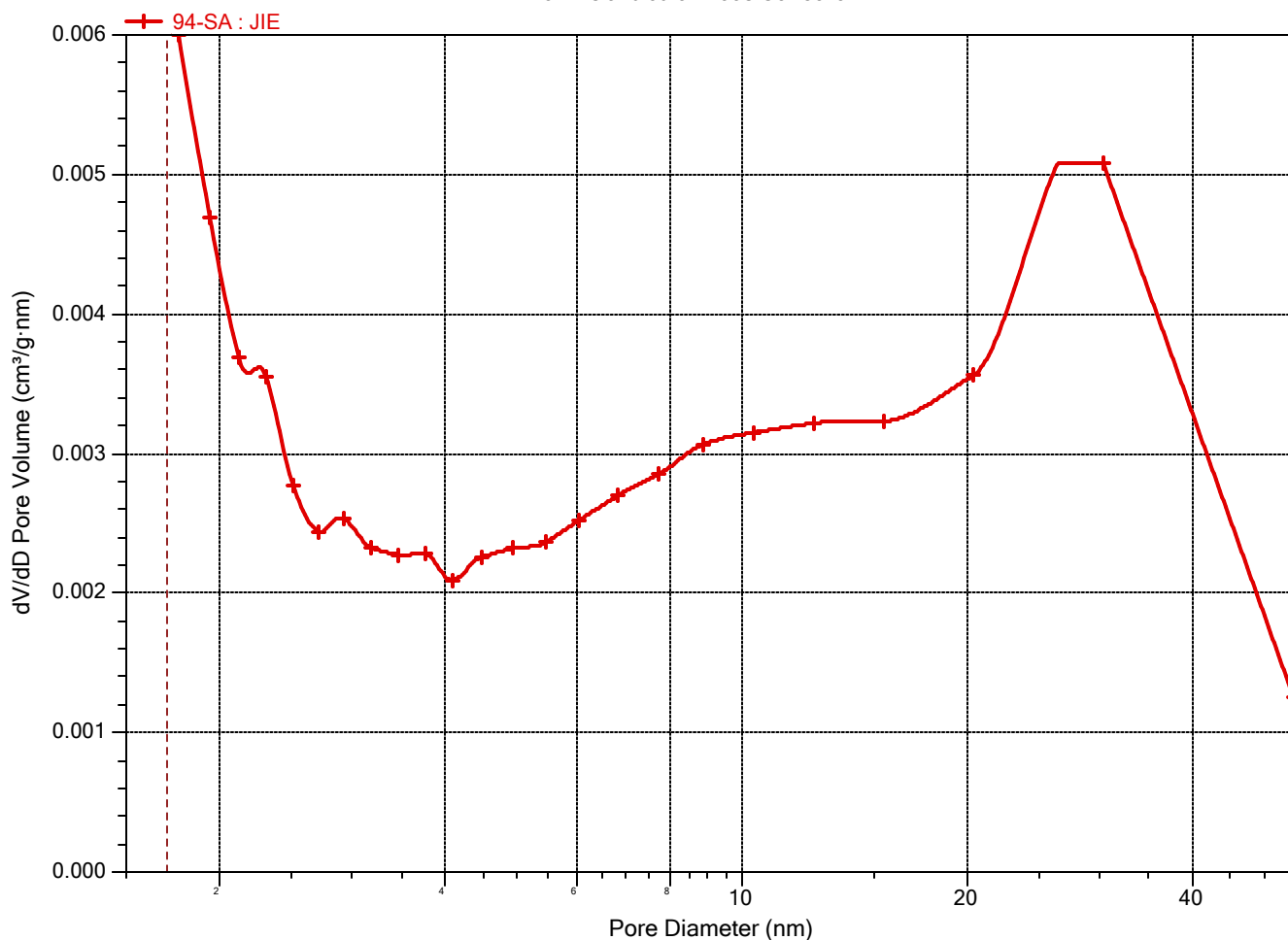
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Low pressure dose: None
Automatic degas: No

Analysis adsorptive: N₂
Analysis bath temp.: -195.850 °C
Thermal correction: No
Ambient free space: 16.7379 cm³ Measured
Equilibration interval: 5 s
Sample density: 1.000 g/cm³

BJH Adsorption dV/dD Pore Volume

Harkins and Jura : Faas Correction



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Low pressure dose:	None	Sample density:	1.000 g/cm ³
Automatic degas:	No		

BJH Desorption Pore Distribution Report

Faas Correction

Harkins and Jura

$$t = [13.99 / (0.034 - \log(P/P_o))] ^{0.5}$$

Diameter range:	1.7000 to 300.0000 nm
Adsorbate property factor:	0.95300 nm
Density conversion factor:	0.0015468
Fraction of pores open at both ends:	0.00

Pore Diameter Range (nm)	Average Diameter (nm)	Incremental Pore Volume (cm ³ /g)	Cumulative Pore Volume (cm ³ /g)	Incremental Pore Area (m ² /g)	Cumulative Pore Area (m ² /g)
219.1 - 52.1	60.3	0.077679	0.077679	5.150	5.150
52.1 - 29.2	34.4	0.137329	0.215008	15.971	21.120
29.2 - 18.1	21.1	0.128040	0.343048	24.312	45.433
18.1 - 13.7	15.3	0.024795	0.367843	6.502	51.935
13.7 - 11.1	12.1	0.009522	0.377365	3.140	55.075
11.1 - 9.2	10.0	0.005711	0.383076	2.288	57.363
9.2 - 8.4	8.8	0.002201	0.385277	1.002	58.365
8.4 - 7.3	7.8	0.002777	0.388054	1.425	59.790
7.3 - 6.5	6.8	0.002421	0.390475	1.415	61.206
6.5 - 5.8	6.1	0.002431	0.392906	1.599	62.804
5.8 - 5.2	5.5	0.002139	0.395045	1.569	64.373
5.2 - 4.7	4.9	0.001391	0.396436	1.130	65.503
4.7 - 4.3	4.5	0.000850	0.397287	0.760	66.263
4.3 - 3.9	4.1	0.000525	0.397811	0.514	66.777
3.9 - 3.6	3.7	0.000357	0.398169	0.382	67.159
3.6 - 3.3	3.4	0.000440	0.398609	0.512	67.670
3.3 - 3.0	3.2	0.000112	0.398720	0.141	67.812
3.0 - 2.8	2.9	0.000094	0.398814	0.129	67.941
2.8 - 2.6	2.7	0.000164	0.398978	0.244	68.185
2.6 - 2.4	2.5	0.000207	0.399185	0.334	68.519
2.4 - 2.2	2.3	0.000246	0.399431	0.432	68.951
2.2 - 2.0	2.1	0.000455	0.399886	0.871	69.822

Sample: JIE

Operator:

File: D:\Lvyupeng\wyc\201905\94-sa\94-SA.SMP

Started:	2019/5/4 21:30:56	Analysis adsorptive:	N2
Completed:	2019/5/5 1:46:56	Analysis bath temp.:	-195.850 °C
Report time:	2019/5/5 7:03:18	Thermal correction:	No
Sample mass:	0.1052 g	Ambient free space:	16.7379 cm ³ Measured
Analysis free space:	48.5991 cm ³	Equilibration interval:	5 s
Low pressure dose:	None	Sample density:	1.000 g/cm ³
Automatic degas:	No		

Pore Diameter Range (nm)	Average Diameter (nm)	Incremental Pore Volume (cm ³ /g)	Cumulative Pore Volume (cm ³ /g)	Incremental Pore Area (m ² /g)	Cumulative Pore Area (m ² /g)
2.0 - 1.8	1.9	0.000624	0.400510	1.307	71.128
1.8 - 1.7	1.7	0.000964	0.401474	2.219	73.347

Sample: JIE

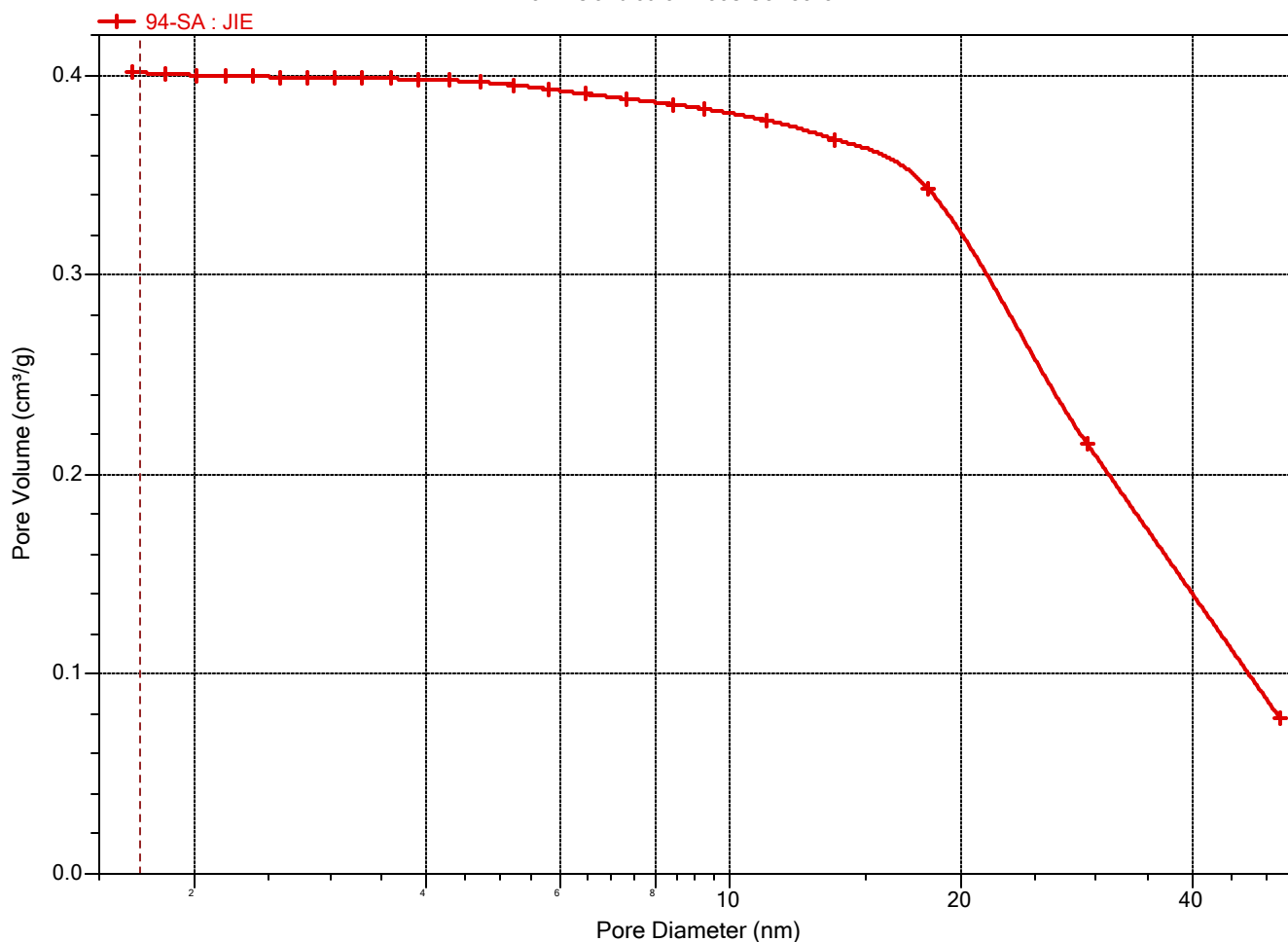
Operator:

File: D:\Lvyupeng\wyc\201905\94-sa\94-SA.SMP

Started:	2019/5/4 21:30:56	Analysis adsorptive:	N2
Completed:	2019/5/5 1:46:56	Analysis bath temp.:	-195.850 °C
Report time:	2019/5/5 7:03:18	Thermal correction:	No
Sample mass:	0.1052 g	Ambient free space:	16.7379 cm ³ Measured
Analysis free space:	48.5991 cm ³	Equilibration interval:	5 s
Low pressure dose:	None	Sample density:	1.000 g/cm ³
Automatic degas:	No		

BJH Desorption Cumulative Pore Volume (Larger)

Harkins and Jura : Faas Correction



Sample: JIE

Operator:

File: D:\Lvyupeng\wyc\201905\94-sa\94-SA.SMP

Started: 2019/5/4 21:30:56
 Completed: 2019/5/5 1:46:56
 Report time: 2019/5/5 7:03:18
 Sample mass: 0.1052 g
 Analysis free space: 48.5991 cm³
 Low pressure dose: None
 Automatic degas: No

Analysis adsorptive: N₂
 Analysis bath temp.: -195.850 °C
 Thermal correction: No
 Ambient free space: 16.7379 cm³ Measured
 Equilibration interval: 5 s
 Sample density: 1.000 g/cm³

BJH Desorption dV/dD Pore Volume

Harkins and Jura : Faas Correction

