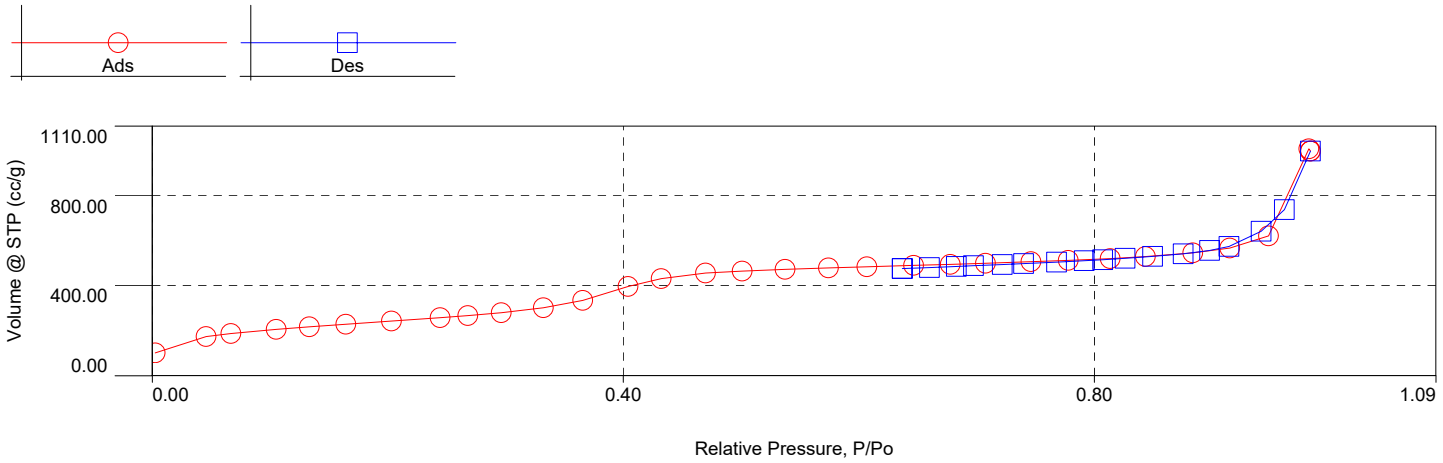
*** The data this report is based upon is incomplete (analysis unfinished) ***

Analysis				Report			
Operator:	thomas	**Date:**	2025/07/02	**Operator:**	Nova3200e	**Date:**	2025/07/17
Sample ID:	1219	**Filename:**		528_FZM_0029.qps			
Sample Desc:		**Comment:**					
Sample weight:	0.0212 g	**Sample Volume:**		1 cc			
Outgas Time:	1.0 hrs	**OutgasTemp:**		350.0 C			
Analysis gas:	Nitrogen	**Bath Temp:**		273.0 K			
Press. Tolerance:	0.100/0.050 (ads/des)	**Equil time:**		180/180 sec (ads/des)	**Equil timeout:**		1200/480 sec (ads/des)
Analysis Time:	541.5 min	**End of run:**		2025/07/02 19:06:19	**Instrument:**		Nova Station A
Cell ID:	0						

Data Reduction Parameters

t-Method	**Calc. method:** de Boer				
BJH/DH method	**Moving pt. avg.:** off	**Ignoring P-tags below 0.35 P/Po**			
Adsorbate	**Nitrogen**	**Temperature**	77.350K		
	Molec. Wt.: 28.013	**Cross Section:**	16.200 Å²	**Liquid Density:**	0.808 g/cc

Isotherm : Linear



Isotherm

Relative Pressure	Volume @ STP [cc/g]	Relative Pressure	Volume @ STP [cc/g]	Relative Pressure	Volume @ STP [cc/g]
2.56800e-03	101.7150	5.37439e-01	472.9515	9.41589e-01	642.2369
4.58770e-02	173.8643	5.74268e-01	479.5062	9.14245e-01	574.7816
6.68520e-02	187.1691	6.06812e-01	484.3276	8.97918e-01	556.9586
1.05302e-01	206.1968	6.46529e-01	490.3547	8.75480e-01	541.9407
1.33450e-01	217.6100	6.77645e-01	495.0228	8.49453e-01	530.2049
1.64464e-01	229.0178	7.07554e-01	499.8762	8.26057e-01	521.7401
2.03143e-01	242.7075	7.46173e-01	506.7566	8.07012e-01	515.4276
2.44555e-01	258.1904	7.77821e-01	512.6538	7.91446e-01	511.5043
2.68021e-01	267.4413	8.13462e-01	520.7485	7.68014e-01	505.2037
2.96429e-01	280.1404	8.43299e-01	529.8933	7.39878e-01	498.4245
3.32167e-01	302.2405	8.83641e-01	545.8709	7.21851e-01	494.1211
3.65582e-01	334.6513	9.14888e-01	567.7880	6.97353e-01	489.0398
4.04119e-01	396.9689	9.47860e-01	621.4130	6.82800e-01	485.7869
4.32163e-01	431.9670	9.82190e-01	1008.3706	6.59890e-01	480.9016
4.69811e-01	456.1316	9.83486e-01	998.6522	6.36797e-01	476.2484
5.01012e-01	465.3185	9.61346e-01	738.5670		

MBET summary

Slope =	3.918
Intercept =	4.398e-02
Correlation coefficient, r =	0.999991
C constant=	90.074
Surface Area =	879.028 m²/g

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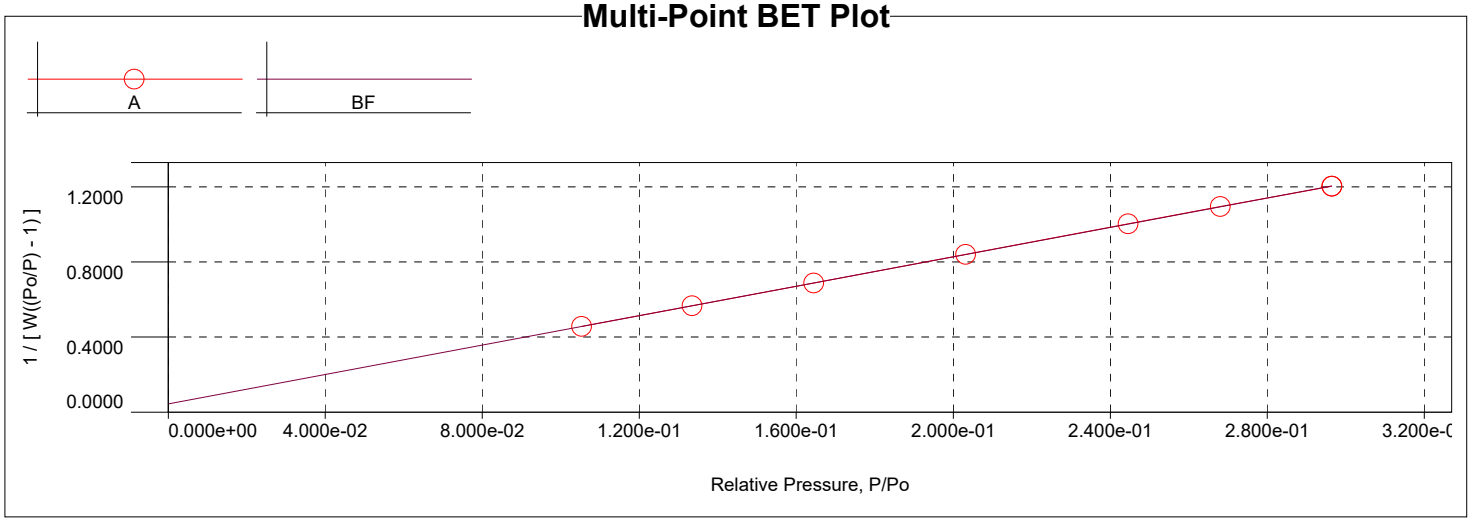
Analysis
Operator: thomas **Date:**2025/07/02
Sample ID: 1219 **Filename:** 528_FZM_0029.qps

Report
Operator: Nova3200e **Date:**2025/07/17

Multi-Point BET Plot



Multi-Point BET

Relative Pressure [P/Po]	Volume @ STP [cc/g]	1 / [W((Po/P) - 1)]	Relative Pressure [P/Po]	Volume @ STP [cc/g]	1 / [W((Po/P) - 1)]
1.05302e-01	206.1968	4.5670e-01	2.44555e-01	258.1904	1.0032e+00
1.33450e-01	217.6100	5.6623e-01	2.68021e-01	267.4413	1.0954e+00
1.64464e-01	229.0178	6.8768e-01	2.96429e-01	280.1404	1.2033e+00
2.03143e-01	242.7075	8.4040e-01			

V-t method summary

Thickness method: DeBoer

Slope =	122.528
Intercept =	-316.184
Correlation coefficient, r =	0.982410
Micropore volume =	0.000 cc/g
Micropore area =	0.000 m²/g
External surface area =	879.028 m²/g

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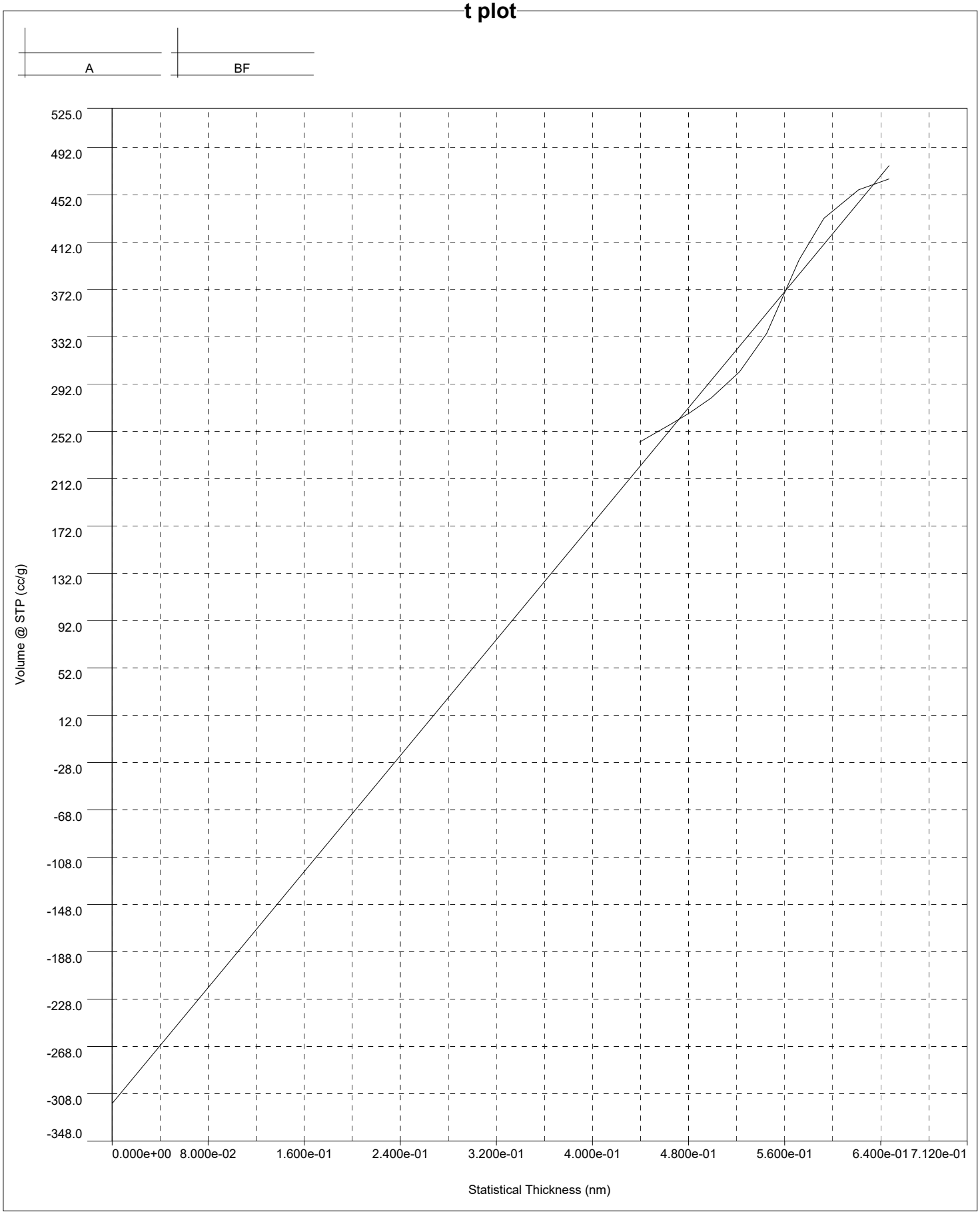
Analysis
Operator: thomas **Date:**2025/07/02
Sample ID: 1219 **Filename:** 528_FZM_0029.qps

Report
Operator: Nova3200e **Date:**2025/07/17

t plot



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Analysis
Operator: thomas **Date:**2025/07/02
Sample ID: 1219 **Filename:** 528_FZM_0029.qps

Report
Operator: Nova3200e **Date:**2025/07/17

t-Plot Method Micropore Analysis

Relative Pressure	Thickness [(nm)]	Volume @ STP [(cc/g)]	Relative Pressure	Thickness [(nm)]	Volume @ STP [(cc/g)]
2.031430e-01	4.3892e-01	242.708	3.655820e-01	5.4499e-01	334.651
2.445550e-01	4.6550e-01	258.190	4.041190e-01	5.7207e-01	396.969
2.680210e-01	4.8054e-01	267.441	4.321630e-01	5.9262e-01	431.967
2.964290e-01	4.9890e-01	280.140	4.698110e-01	6.2160e-01	456.132
3.321670e-01	5.2240e-01	302.241	5.010120e-01	6.4705e-01	465.318

BJH desorption summary

Surface Area = 109.932 m²/g
Pore Volume = 0.889 cc/g
Pore Diameter Dv(d) = 5.997 nm

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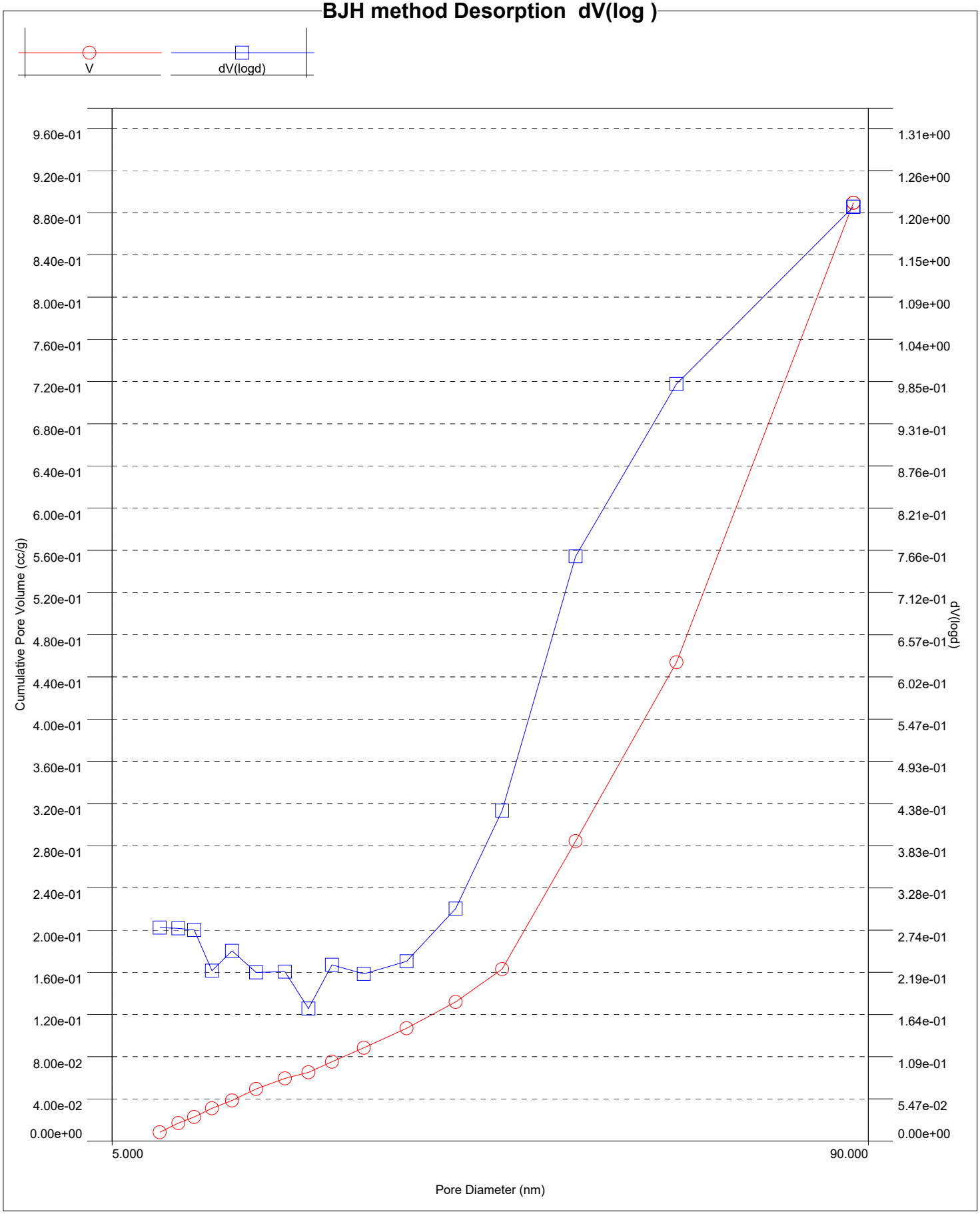
Analysis
Operator: thomas **Date:**2025/07/02
Sample ID: 1219 **Filename:** 528_FZM_0029.qps

Report
Operator: Nova3200e **Date:**2025/07/17

BJH method Desorption dV(log)



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Analysis
Operator: thomas **Date:**2025/07/02
Sample ID: 1219 **Filename:** 528_FZM_0029.qps

Report
Operator: Nova3200e **Date:**2025/07/17

Desorption

Diameter [nm]	Pore Volume [cc/g]	Pore Surf Area [m²/g]	dV(d) [cc/nm/g]	dS(d) [m²/nm/g]	dV(logd) [cc/g]	dS(logd) [cc/g]
5.9972	8.3824e-03	5.5908e+00	2.0071e-02	1.3387e+01	2.7705e-01	1.8479e+02
6.4408	1.7125e-02	1.1020e+01	1.8621e-02	1.1564e+01	2.7603e-01	1.7143e+02
6.8418	2.2906e-02	1.4400e+01	1.7392e-02	1.0168e+01	2.7394e-01	1.6016e+02
7.3242	3.1202e-02	1.8931e+01	1.3116e-02	7.1628e+00	2.2105e-01	1.2072e+02
7.9087	3.8479e-02	2.2611e+01	1.3565e-02	6.8605e+00	2.4692e-01	1.2489e+02
8.6738	4.9379e-02	2.7638e+01	1.0970e-02	5.0590e+00	2.1886e-01	1.0093e+02
9.6807	5.9448e-02	3.1798e+01	9.8692e-03	4.0779e+00	2.1979e-01	9.0814e+01
10.5947	6.5146e-02	3.3950e+01	7.0552e-03	2.6637e+00	1.7203e-01	6.4949e+01
11.5862	7.5229e-02	3.7431e+01	8.5782e-03	2.9615e+00	2.2865e-01	7.8940e+01
13.0901	8.8434e-02	4.1466e+01	7.2061e-03	2.2020e+00	2.1684e-01	6.6262e+01
15.4133	1.0698e-01	4.6278e+01	6.5903e-03	1.7103e+00	2.3324e-01	6.0530e+01
18.5879	1.3196e-01	5.1654e+01	7.0659e-03	1.5205e+00	3.0151e-01	6.4883e+01
22.2055	1.6305e-01	5.7256e+01	8.4049e-03	1.5140e+00	4.2874e-01	7.7232e+01
29.4069	2.8434e-01	7.3753e+01	1.1332e-02	1.5414e+00	7.5875e-01	1.0321e+02
43.2387	4.5387e-01	8.9437e+01	9.9958e-03	9.2470e-01	9.8229e-01	9.0872e+01
85.0040	8.8942e-01	1.0993e+02	6.5428e-03	3.0788e-01	1.2122e+00	5.7044e+01