



COMPANY NAME

TriStar II 3020 V1.04 (V1.04)

Unit 2 Port 1

Serial #: 626

Page 1

Sample: Sample ID
Operator: Chemist Initials
Submitter: PTL
File: R:\...\WEBSITE\SAMPLE1.SMP

Started: 8/15/2014 4:12:53PM	Analysis Adsorptive: N2
Completed: 8/16/2014 2:07:52PM	Analysis Bath Temp.: 77.350 K
Report Time: 4/13/2015 11:18:08AM	Sample Mass: 0.4730 g
Warm Free Space: 14.8315 cm ³ Measured	Cold Free Space: 46.2643 cm ³ Measured
Equilibration Interval: 20 s	Low Pressure Dose: None
Sample Density: 1.000 g/cm ³	Automatic Degas: No

Comments: COMPANY NAME Sample Type Sample ID PTL Project # Test Method # PTL ID #

Summary Report

Surface Area

Single point surface area at $P/P_0 = 0.302861883$: 251.1134 m²/g

BET Surface Area: 261.9371 m²/g

BJH Adsorption cumulative surface area of pores
between 1.7000 nm and 300.0000 nm diameter: 292.236 m²/g

BJH Desorption cumulative surface area of pores
between 1.7000 nm and 300.0000 nm diameter: 311.3185 m²/g

Pore Volume

BJH Adsorption cumulative volume of pores
between 1.7000 nm and 300.0000 nm diameter: 0.628626 cm³/g

BJH Desorption cumulative volume of pores
between 1.7000 nm and 300.0000 nm diameter: 0.627193 cm³/g

Pore Size

BJH Adsorption average pore diameter (4V/A): 8.6044 nm

BJH Desorption average pore diameter (4V/A): 8.0585 nm



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Low Pressure Dose: None
Automatic Degas: No

Comments: COMPANY NAME Sample Type Sample ID PTL Project # Test Method # PTL ID #

Isotherm Tabular Report

Table with 5 columns: Relative Pressure (P/Po), Absolute Pressure (mmHg), Quantity Adsorbed (cm³/g STP), Elapsed Time (h:min), Saturation Pressure (mmHg). Contains 30 rows of data points.



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Analysis Bath Temp.: 77.350 K
Sample Mass: 0.4730 g
Cold Free Space: 46.2643 cm³ Measured
Low Pressure Dose: None
Automatic Degas: No

Comments: COMPANY NAME Sample Type Sample ID PTL Project # Test Method # PTL ID #

Isotherm Tabular Report

Table with 5 columns: Relative Pressure (P/Po), Absolute Pressure (mmHg), Quantity Adsorbed (cm³/g STP), Elapsed Time (h:min), Saturation Pressure (mmHg). Contains 20 rows of data points.



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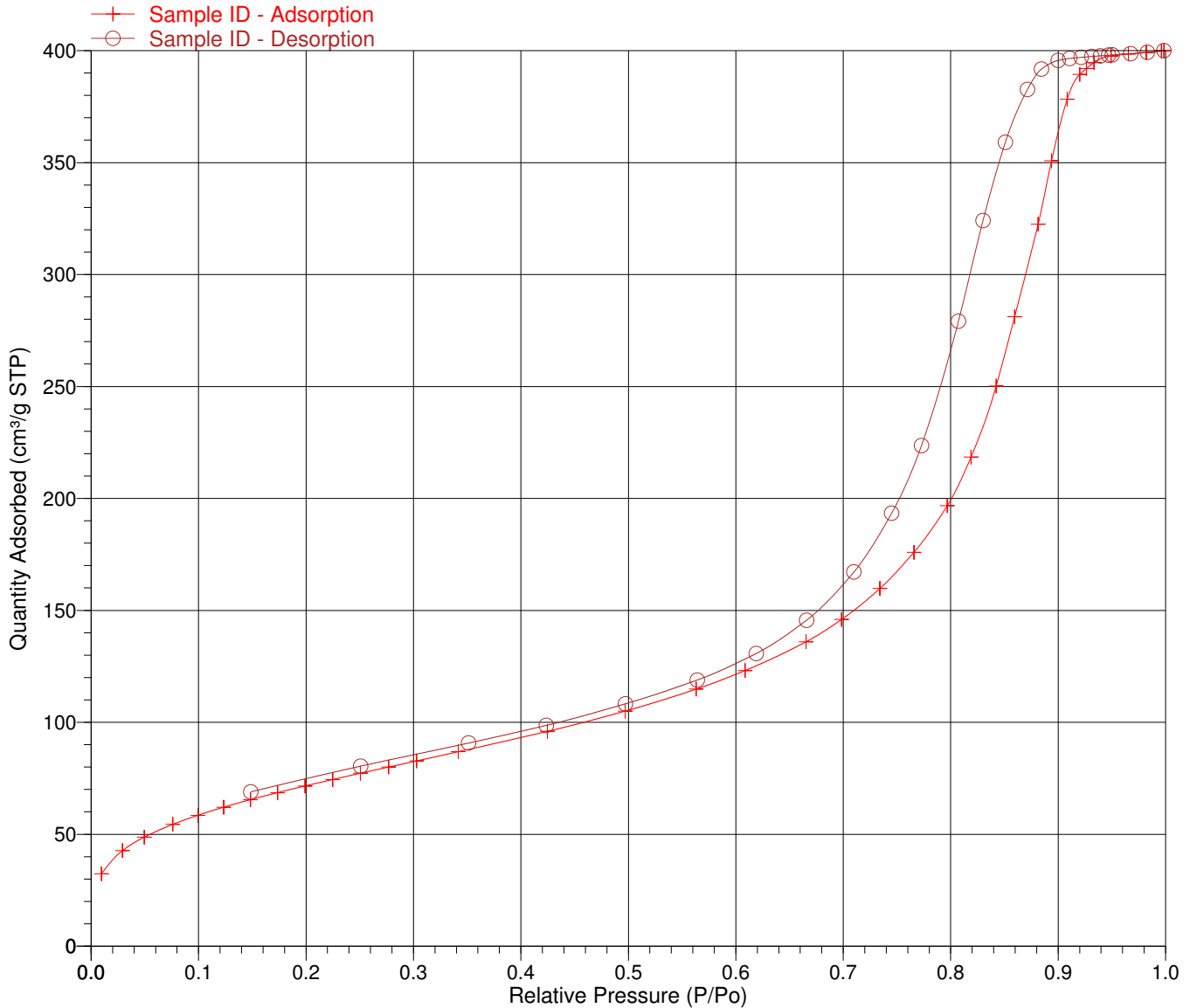
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Analysis Adsorptive: N2
Analysis Bath Temp.: 77.350 K
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Comments: COMPANY NAME Sample Type Sample ID PTL Project # Test Method # PTL ID #

Isotherm Linear Plot





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Low Pressure Dose: None
Automatic Degas: No

Comments: COMPANY NAME Sample Type Sample ID PTL Project # Test Method # PTL ID #

BET Surface Area Report

BET Surface Area: 261.9371 ± 1.9073 m²/g
Slope: 0.016378 ± 0.000119 g/cm³ STP
Y-Intercept: 0.000241 ± 0.000024 g/cm³ STP
C: 68.939858
Qm: 60.1712 cm³/g STP
Correlation Coefficient: 0.9997902
Molecular Cross-Sectional Area: 0.1620 nm²

Table with 3 columns: Relative Pressure (P/Po), Quantity Adsorbed (cm³/g STP), and 1/[Q(Po/P - 1)]. It contains 10 rows of data points.



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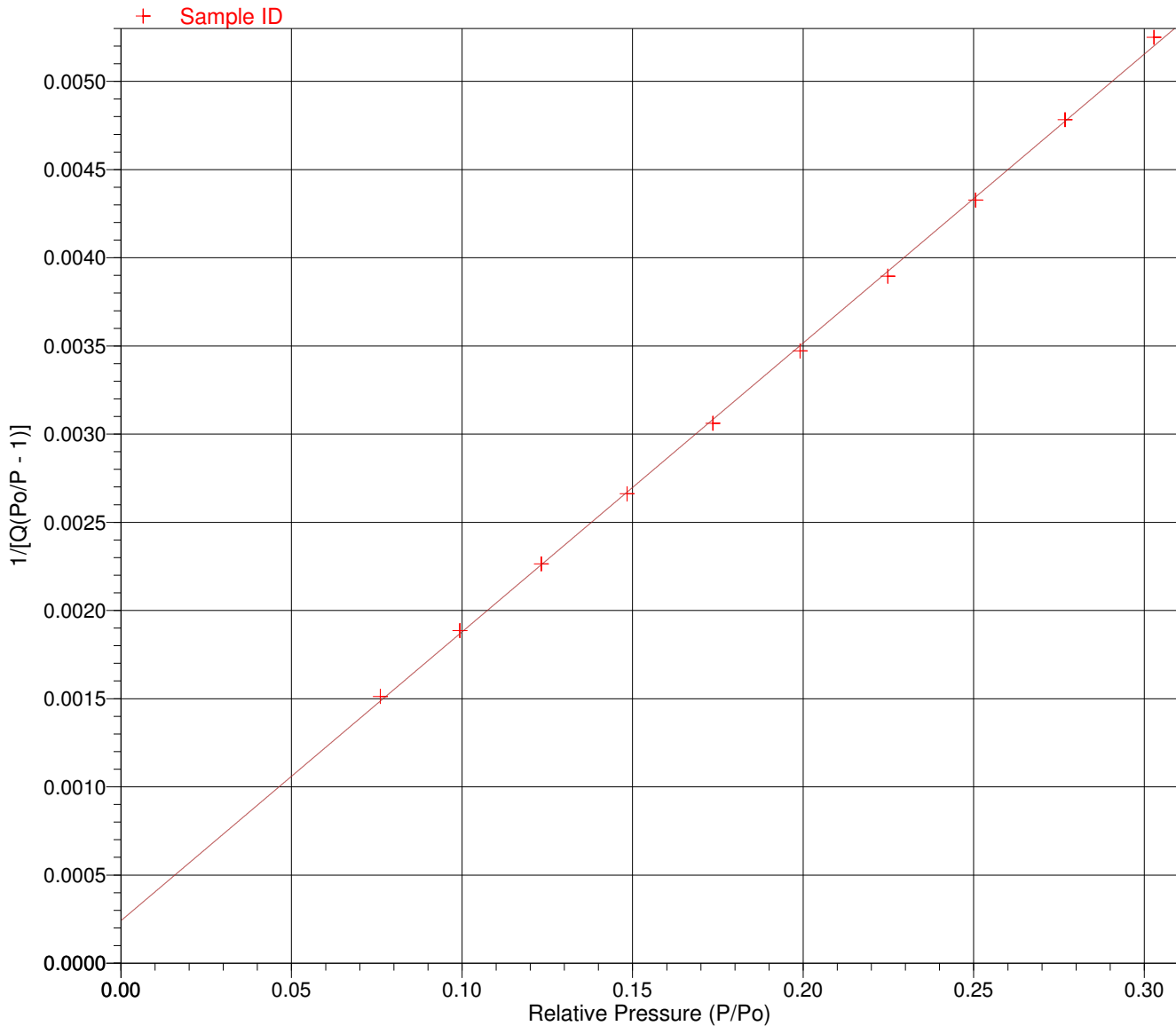
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Comments: COMPANY NAME Sample Type Sample ID PTL Project # Test Method # PTL ID #

BET Surface Area Plot





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Analysis Bath Temp.: 77.350 K
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Low Pressure Dose: None
Automatic Degas: No

Comments: COMPANY NAME Sample Type Sample ID PTL Project # Test Method # PTL ID #

BJH Adsorption Pore Distribution Report

Faas Correction

Halsey

t = 3.54 [-5 / ln(P/Po)] ^ 0.333

Diameter Range: 1.7000 nm to 300.0000 nm

Adsorbate Property Factor: 0.95300 nm

Density Conversion Factor: 0.0015468

Fraction of Pores Open at Both Ends: 0.00

Table with 6 columns: Pore Diameter Range (nm), Average Diameter (nm), Incremental Pore Volume (cm³/g), Cumulative Pore Volume (cm³/g), Incremental Pore Area (m²/g), Cumulative Pore Area (m²/g). Rows show data for various pore size ranges from 510.7-109.6 nm down to 2.3-1.8 nm.



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Equilibration Interval: 20 s
Sample Density: 1.000 g/cm³

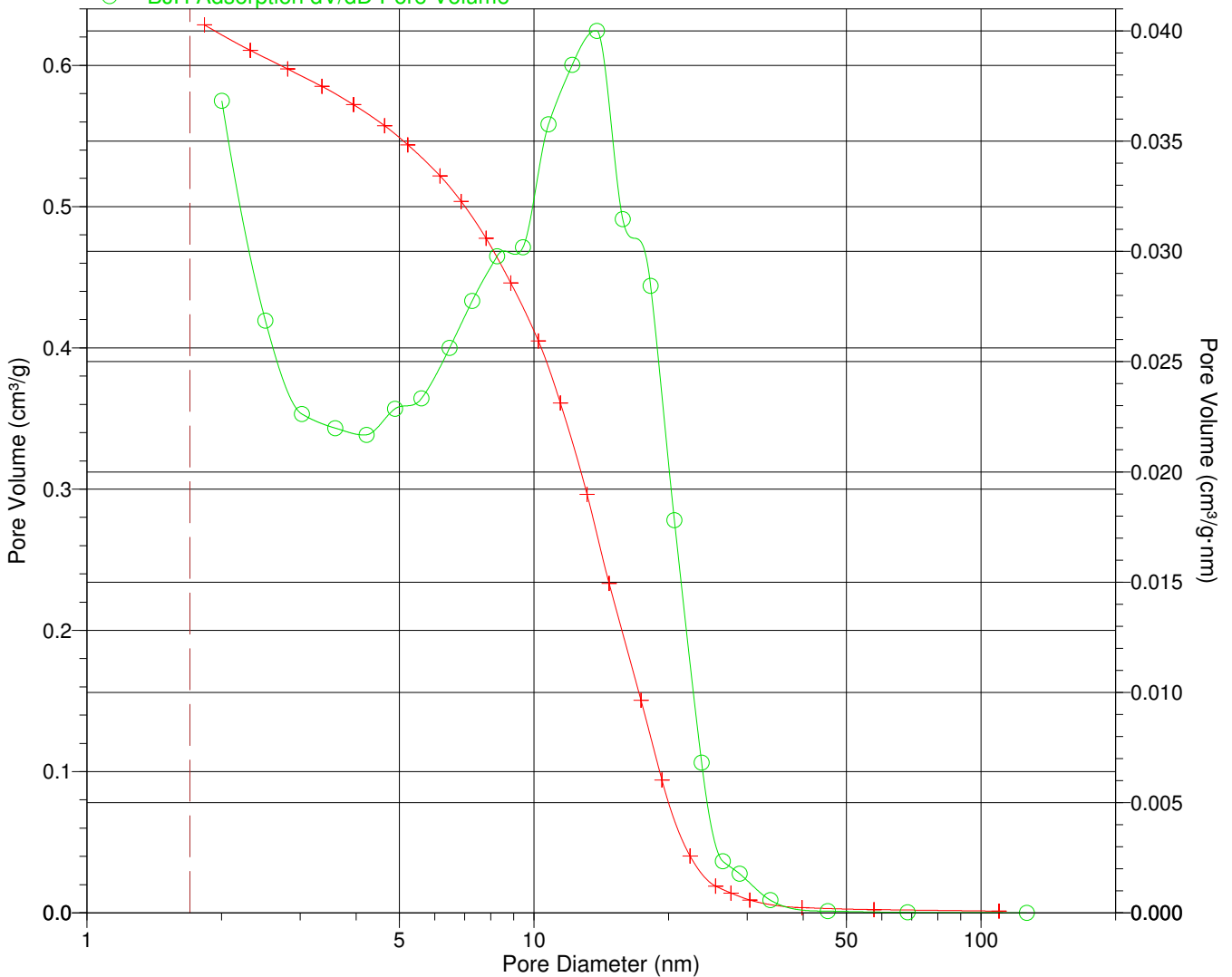
Analysis Adsorptive: N2
Analysis Bath Temp.: 77.350 K
Sample Mass: 0.4730 g
Cold Free Space: 46.2643 cm³ Measured
Low Pressure Dose: None
Automatic Degas: No

Comments: COMPANY NAME Sample Type Sample ID PTL Project # Test Method # PTL ID #

BJH Adsorption Cumulative Pore Volume (Larger)

Halsey : Faas Correction

—+— BJH Adsorption Cumulative Pore Volume (Larger)
—○— BJH Adsorption dV/dD Pore Volume





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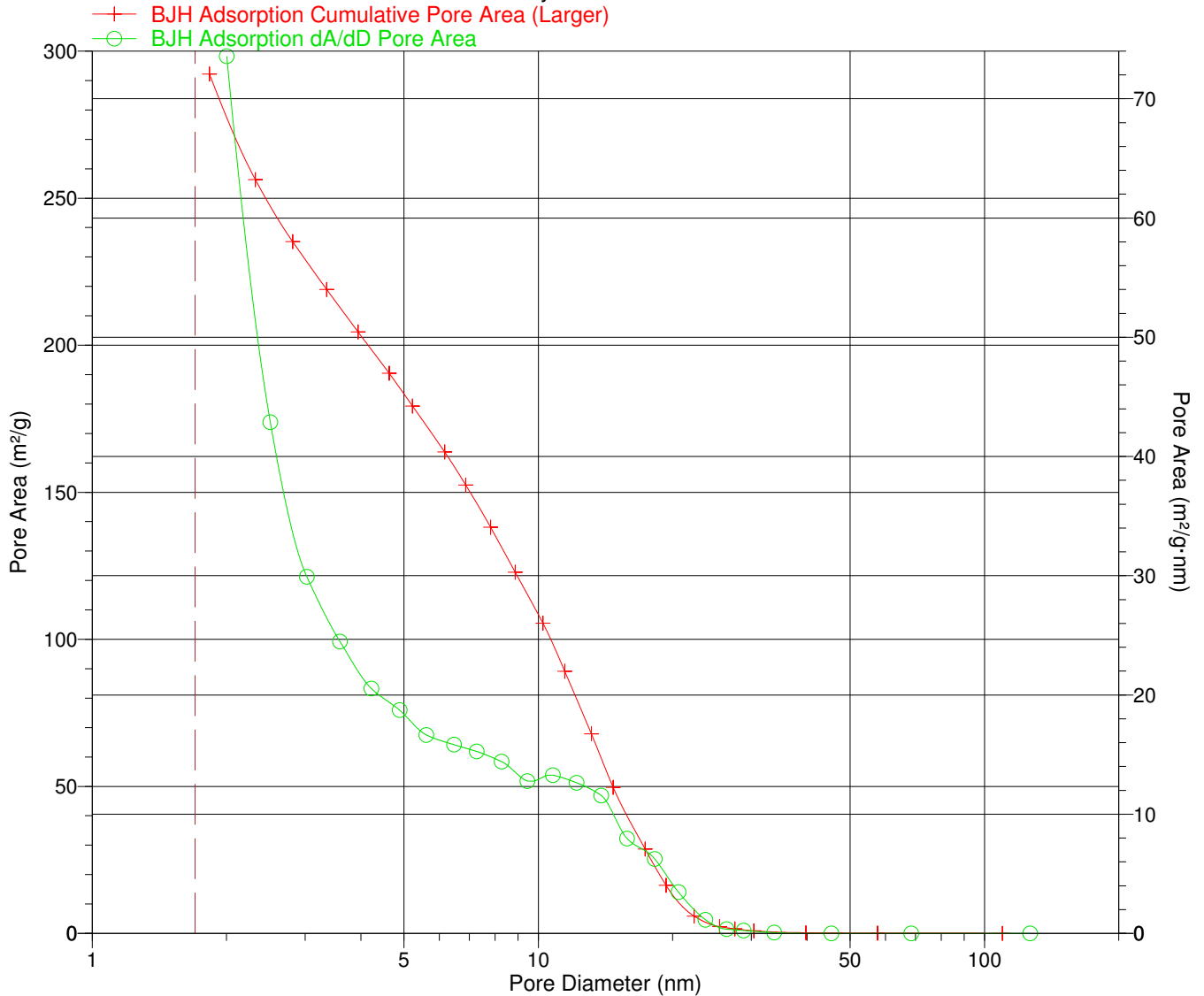
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Sample Density: 1.000 g/cm³

Analysis Adsorptive: N2
Analysis Bath Temp.: 77.350 K
Sample Mass: 0.4730 g
Cold Free Space: 46.2643 cm³ Measured
Low Pressure Dose: None
Automatic Degas: No

Comments: COMPANY NAME Sample Type Sample ID PTL Project # Test Method # PTL ID #

BJH Adsorption Cumulative Pore Area (Larger)

Halsey : Faas Correction





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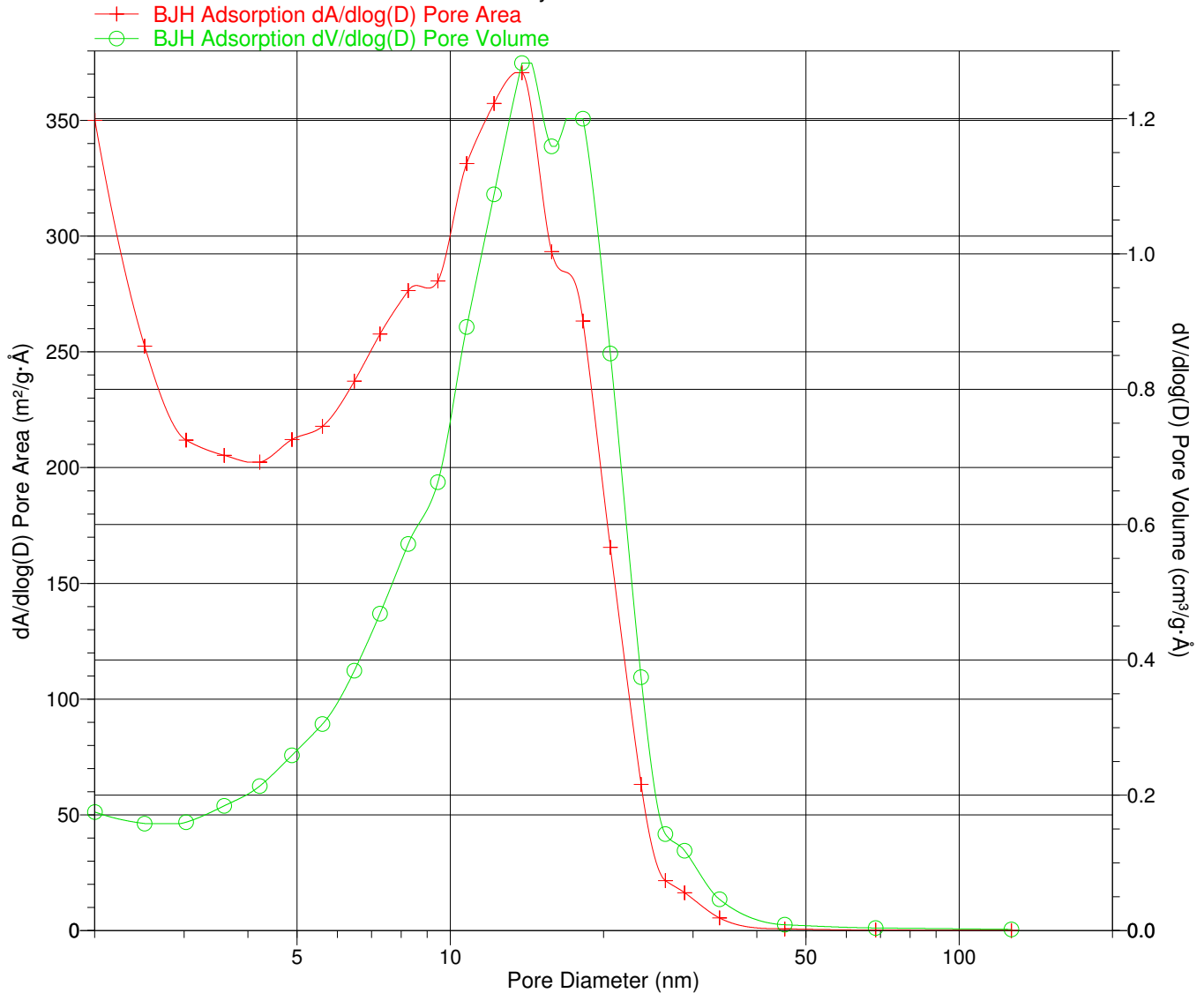
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Analysis Bath Temp.: 77.350 K
Sample Mass: 0.4730 g
Cold Free Space: 46.2643 cm³ Measured
Low Pressure Dose: None
Automatic Degas: No

Comments: COMPANY NAME Sample Type Sample ID PTL Project # Test Method # PTL ID #

BJH Adsorption dA/dlog(D) Pore Area

Halsey : Faas Correction





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Low Pressure Dose: None
Automatic Degas: No

Comments: COMPANY NAME Sample Type Sample ID PTL Project # Test Method # PTL ID #

BJH Desorption Pore Distribution Report

Faas Correction

Halsey

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Diameter Range: 1.7000 nm to 300.0000 nm

Adsorbate Property Factor: 0.95300 nm

Density Conversion Factor: 0.0015468

Fraction of Pores Open at Both Ends: 0.00

Table with 6 columns: Pore Diameter Range (nm), Average Diameter (nm), Incremental Pore Volume (cm³/g), Cumulative Pore Volume (cm³/g), Incremental Pore Area (m²/g), Cumulative Pore Area (m²/g). Rows show data for various pore size ranges from 1304.6-116.3 nm down to 2.3-1.8 nm.



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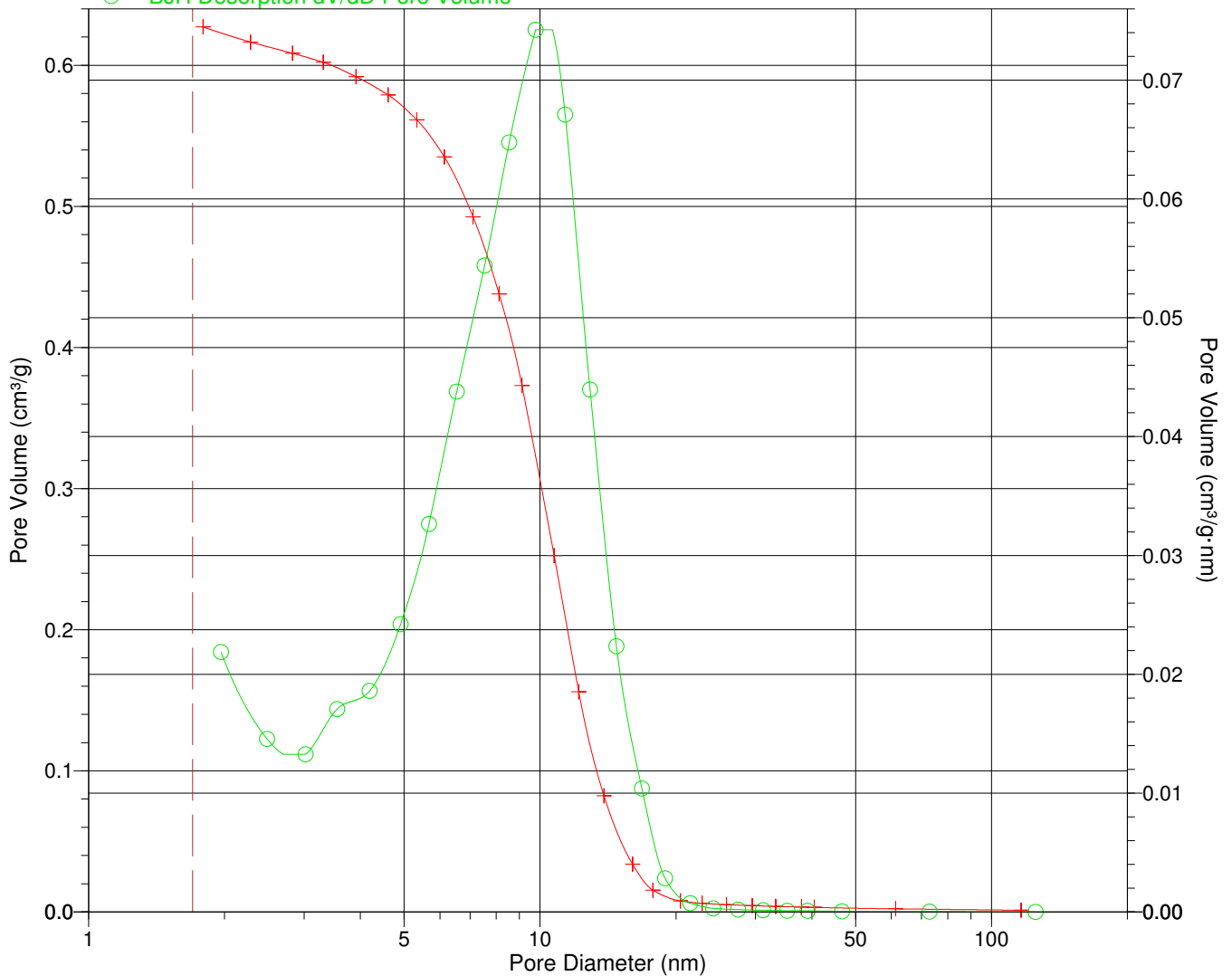
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Low Pressure Dose: None
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BJH Desorption Cumulative Pore Volume (Larger)

Halsey : Faas Correction

—+— BJH Desorption Cumulative Pore Volume (Larger)
—○— BJH Desorption dV/dD Pore Volume





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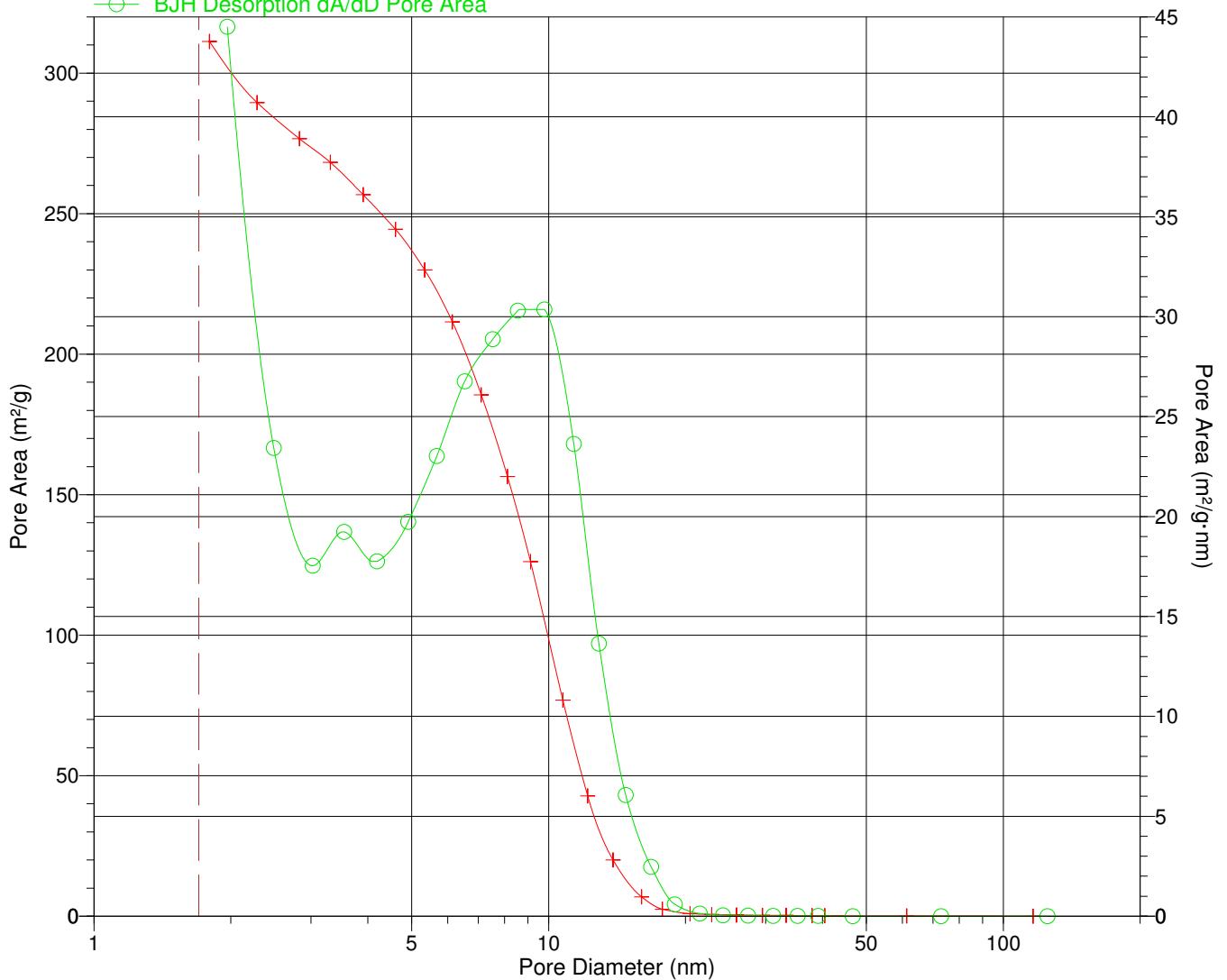
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Sample Mass: 0.4730 g
Cold Free Space: 46.2643 cm³ Measured
Low Pressure Dose: None
Automatic Degas: No

Comments: COMPANY NAME Sample Type Sample ID PTL Project # Test Method # PTL ID #

BJH Desorption Cumulative Pore Area (Larger)

Halsey : Faas Correction

—+— BJH Desorption Cumulative Pore Area (Larger)
—○— BJH Desorption dA/dD Pore Area





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BJH Desorption $dA/d\log(D)$ Pore Area

Halsey : Faas Correction

