

**COVER PAGE****6H0354**, 6H, High Rank Coal; 65 Mesh (212um)**Material Source:** SGS East Chicago**Report Version:** Version 1

Customer No: 037290

Servicio Geologico Colombiano

SGC - Bogota Laboratory CO

Issued Date: 20 Apr. 2026 07:06PM

Version 1

Please find following your Final LQSi PTP Report (**Version 1**) for this round. We thank you for submitting your data on time, allowing LQSi to submit our Reports to PTP Projects in a timely manner. If you have any questions regarding this Report, please notify us immediately at lqsi@sgs.com with as much detail as possible.

This report was prepared and reviewed by authorized members of the LQSi Staff.

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The use of affiliates and/or subcontracting done in support of LQSi PTPs may include but is not limited to the following:

- Chemical analysis of samples for the purpose of determining homogeneity and suitability.
- Preparation and distribution of Geochemical Test Samples.

A Method Summary Report (MSR) for this Round is available in your Project library at www.lqsi.com.

Corrective Action Recommendations (CARs) associated with this Report are available in your Project library at www.lqsi.com and, if required, will be sent via email.

A Key Performance Indicator Report (KPI) is posted in your Project library at www.lqsi.com on or after the 6th of the month.

There are additional documents that may assist in your understanding of this report. These documents can be found under Public Library at our website www.lqsi.com.

Here is a list of some of the more pertinent documents

Document Number	Title
524	PTP Types
654	Confidentiality Integrity; English
701	User's Manual
831	Confidentiality Agreement
864	Training Manual

Document Number	Title
872	Basic Statistics 101
872	Statistics Mean
0872 Outlier	Outlier Test
0872 Outlier	Outlier Test (*.xlsx)
873	Use of MSRs

We appreciate any comments that you may have about the LQSi SAMS2 system (e.g., data entry, registration, etc.)



STATISTICAL SUMMARY

6H0354, 6H, High Rank Coal; 65 Mesh (212um)

Material Source: SGS East Chicago

Report Version: Version 1

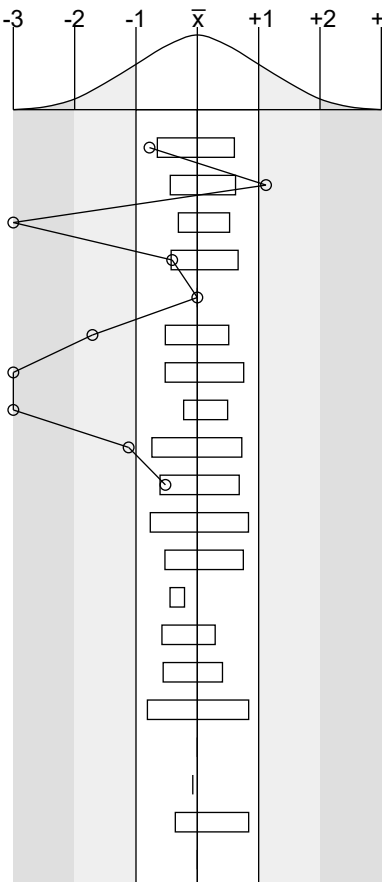
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PARAMETER	Unit	Lab Value		% Rel Diff	Z-Score	Precision Ratio		Group Value		
		Mean	SD					Mean	SD	n
Moisture, 60 Mesh	% by wt	6.88	0.085	-2.54	-0.78	2.59		7.06	0.229	52
Ash, Dry	% by wt	4.87	0.071	3.11	1.12	2.39		4.72	0.132	71
Volatile, Dry ASTM	% by wt	41.60	0.042	-4.26	-3.09	0.37		43.45	0.599	29
Calorific Value, Dry	BTU/lb	12546	4.2	-0.13	-0.41	0.33		12562	39.4	65
Free Swelling Index	index	0.0	0.00	0.00	0.00	0.00		0.0	0.00	20
Carbon, C, Dry	% by wt	71.33	0.113	-1.25	-1.71	1.07		72.23	0.527	32
Hydrogen, H, Dry	% by wt	4.55	0.156	-9.89	-5.32	8.01		5.05	0.094	29
Nitrogen, N, Dry	% by wt	0.91	0.021	-29.52	-6.04	2.50		1.28	0.063	25
Mercury, Hg, Dry	ug/kg	15.04	0.686	-26.67	-1.12	0.83		20.50	4.865	12
Sulfur, S, Dry	% by wt	0.711	0.0141	-1.74	-0.52	1.72		0.724	0.0240	65
Volatile, Dry ISO	% by wt							42.94	0.418	52
Calorific Value, as Rec	BTU/lb							11691	26.2	29
Chlorine, Cl, Dry	% by wt							0.015	0.0212	15
Sulfur, Pyritic, Dry	% by wt							0.172	0.0469	3
Sulfur, Sulfate, Dry	% by wt							0.014	0.0057	3
Fluorine, F, Dry	mg/kg							37.44	5.451	10
Sodium Oxide, Na2O, Dry	% by wt							0.15	0.000	1
Phosphorus, P, Dry	% by wt							0.005	0.001	9
True Relative Density	number							1.35	0.008	5
Chlorine	% by wt							0.08	0.000	1

**PARAMETER REPORT: Moisture, 60 Mesh % by wt****6H0354**, 6H, High Rank Coal; 65 Mesh (212um)**Reported Method:** ASTM D7582**Reported Instrument:** LECO TGA-601**Reported Ref. Material:** LECO 502-680; etc

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STATISTICS

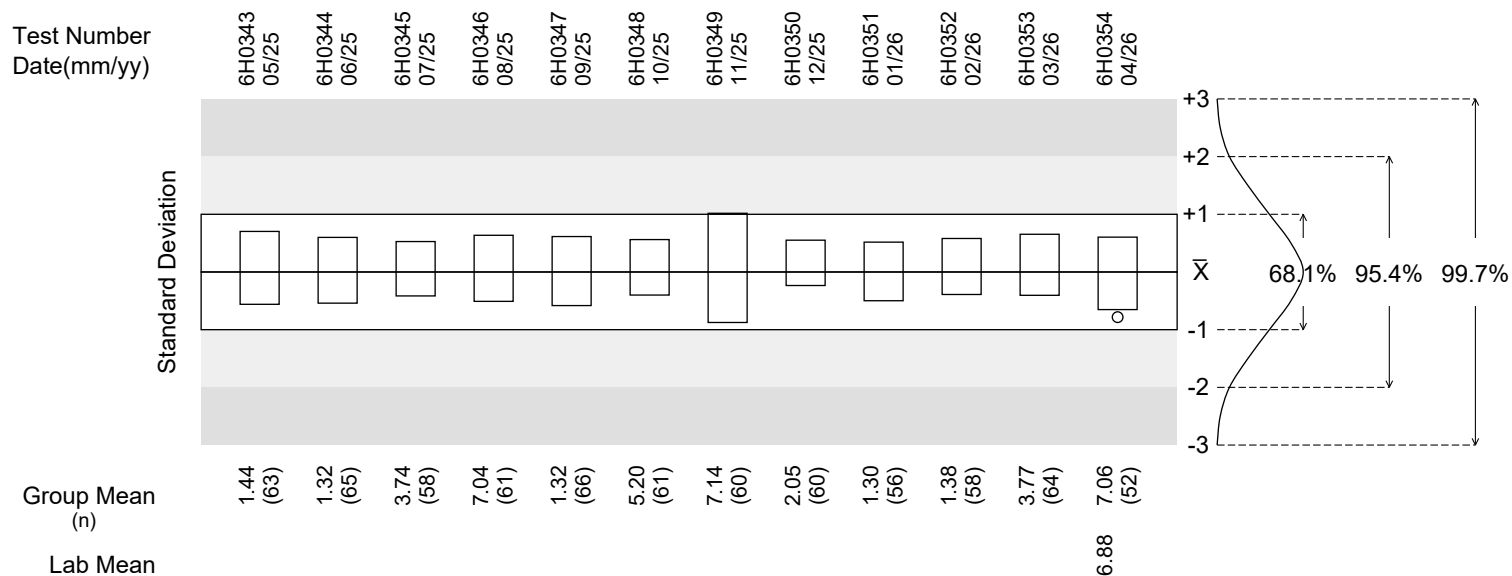
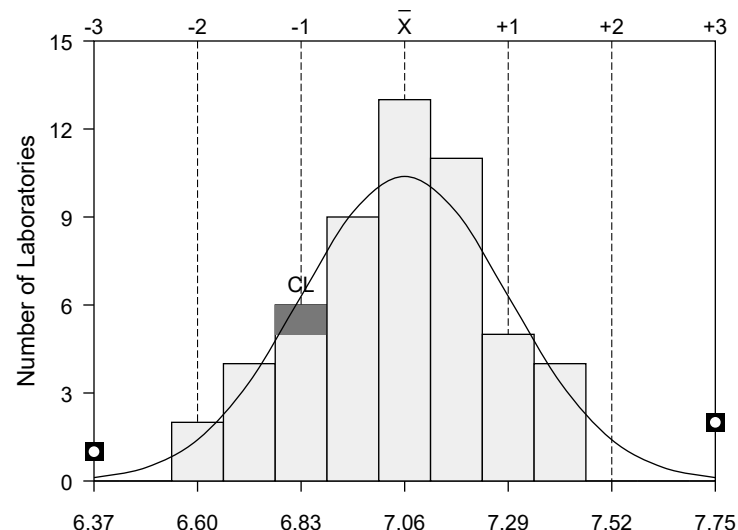
Lab Value	
Mean	SD
6.88	0.085

Group Value		
Mean	SD	n
7.06	0.229	52

Accuracy	Precision Estimates		Precision Factors	
	Laboratory	Ref. Standard		Group
	Mean Difference	within +/- 0.46	Repeatability (r)	0.092
	Z-Score	within +/- 2.00	Reproducibility (R)	0.644
Relative Difference(%)		within +/- 6.52	Confidence Interval	0.064

Precision Ratio	
2.59	< 2.8

Current Round	Trend	Bias	Consistency	Rule 1	Rule 2	Rule 3	Rule 4
	NA	NA	NA	0	0	0	0

HISTORICAL PERFORMANCE**FREQUENCY DISTRIBUTION**

**PARAMETER REPORT: Ash, Dry % by wt****6H0354**, 6H, High Rank Coal; 65 Mesh (212um)**Reported Method:** ASTM D7582**Reported Instrument:** LECO TGA-601**Reported Ref. Material:** LECO 502-680; etc

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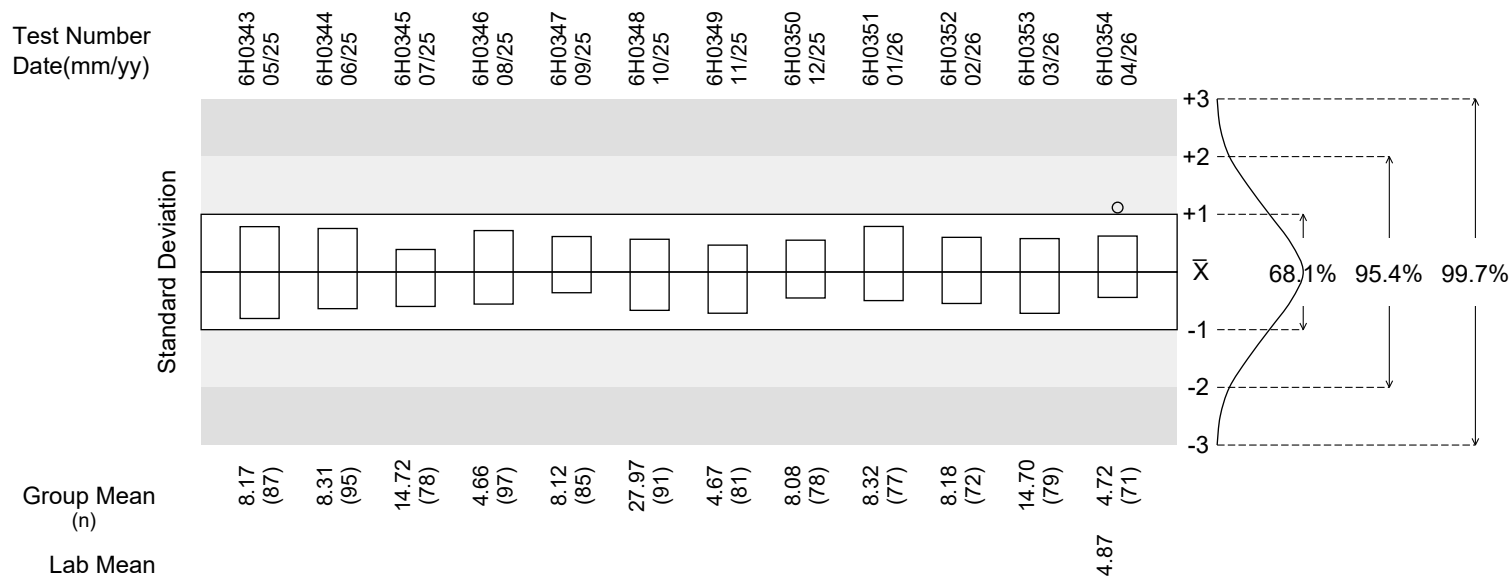
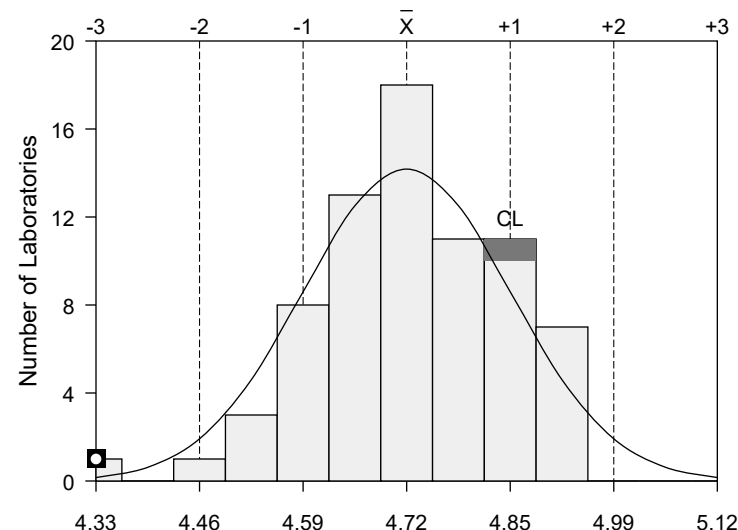
Lab Value	
Mean	SD
4.87	0.071

Group Value		
Mean	SD	n
4.72	0.132	71

Accuracy	Precision Estimates		Precision Factors	
	Laboratory	Ref. Standard		Group
	Mean Difference	within +/- 0.26	Repeatability (r)	0.083
	Z-Score	within +/- 2.00	Reproducibility (R)	0.373
Relative Difference(%)		within +/- 5.51	Confidence Interval	0.031

Precision Ratio	2.39	< 2.8
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Current Round	Trend	Bias	Consistency	Rule 1	Rule 2	Rule 3	Rule 4
	NA	NA	NA	0	0	0	0

HISTORICAL PERFORMANCE**FREQUENCY DISTRIBUTION**

**PARAMETER REPORT: Volatile, Dry ASTM % by wt****6H0354**, 6H, High Rank Coal; 65 Mesh (212um)**Reported Method:** ASTM D7582**Reported Instrument:** LECO TGA-601**Reported Ref. Material:** LECO 502-680; etc

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Lab Value	
Mean	SD
41.60	0.042

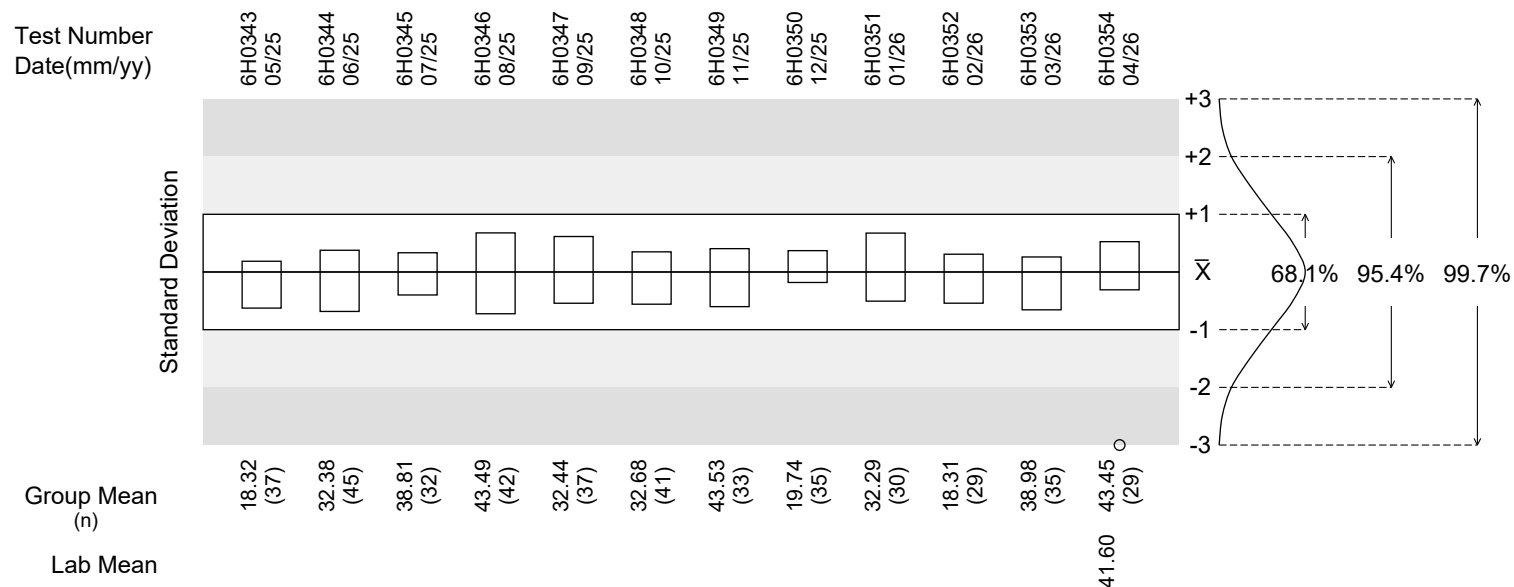
Group Value		
Mean	SD	n
43.45	0.599	29

Accuracy	Precision Estimates		Precision Factors	
	Laboratory	Ref. Standard		Group
	Mean Difference	within +/- 1.20	Repeatability (r)	0.320
	Z-Score	within +/- 2.00	Reproducibility (R)	1.693
Relative Difference(%)		within +/- 2.76	Confidence Interval	0.228

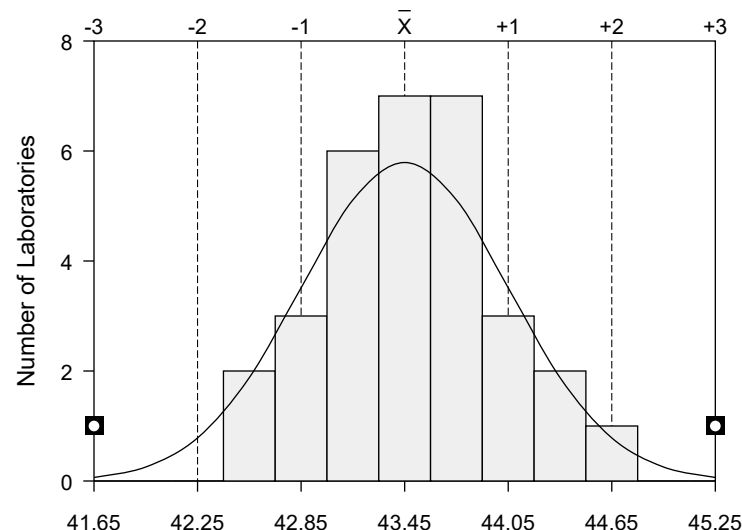
Precision Ratio	
0.37	< 2.8

Current Round	Trend	Bias	Consistency	Rule 1	Rule 2	Rule 3	Rule 4
	NA	NA	NA	1	0	0	0

HISTORICAL PERFORMANCE



FREQUENCY DISTRIBUTION



**PARAMETER REPORT: Calorific Value, Dry BTU/lb****6H0354**, 6H, High Rank Coal; 65 Mesh (212um)**Reported Method:** ASTM D5865**Reported Instrument:** LECO AC-600**Reported Ref. Material:** Other

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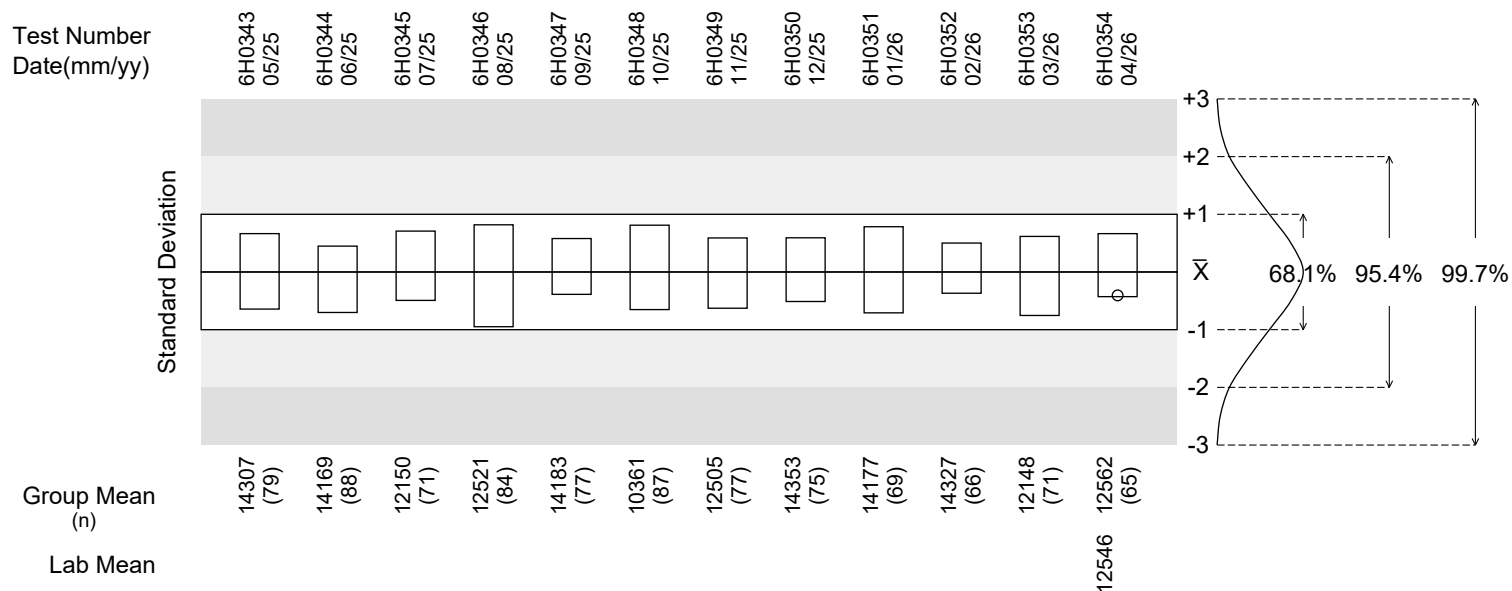
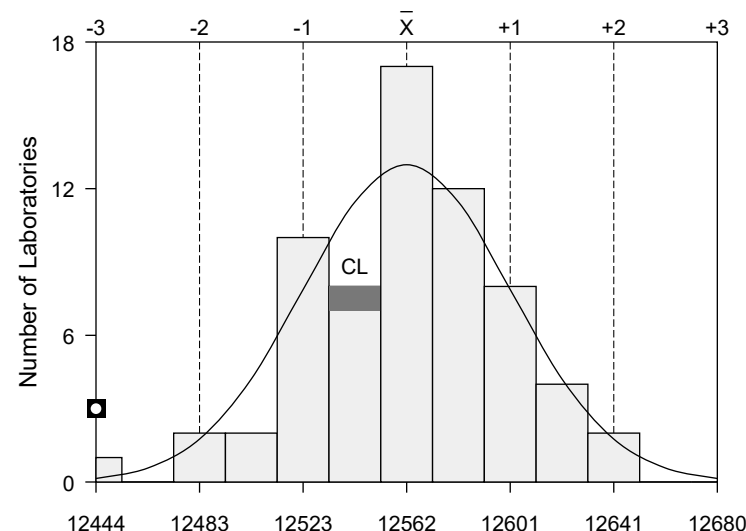
Lab Value	
Mean	SD
12546	4.2

Group Value		
Mean	SD	n
12562	39.4	65

Accuracy	Precision Estimates		Precision Factors	
	Laboratory	Ref. Standard		Group
	Mean Difference	within +/- 79	Repeatability (r)	36.5
	Z-Score	within +/- 2.00	Reproducibility (R)	113.2
Relative Difference(%)		within +/- 0.63	Confidence Interval	9.8

Precision Ratio	0.33	< 2.8
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Current Round	Trend	Bias	Consistency	Rule 1	Rule 2	Rule 3	Rule 4
	NA	NA	NA	0	0	0	0

HISTORICAL PERFORMANCE**FREQUENCY DISTRIBUTION**

PARAMETER REPORT: Free Swelling Index index

6H0354, 6H, High Rank Coal; 65 Mesh (212um)

Reported Method: ASTM D720

Reported Instrument:Preiser

Reported Ref. Material: Other

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Lab Value	
Mean	SD
0.0	0.00

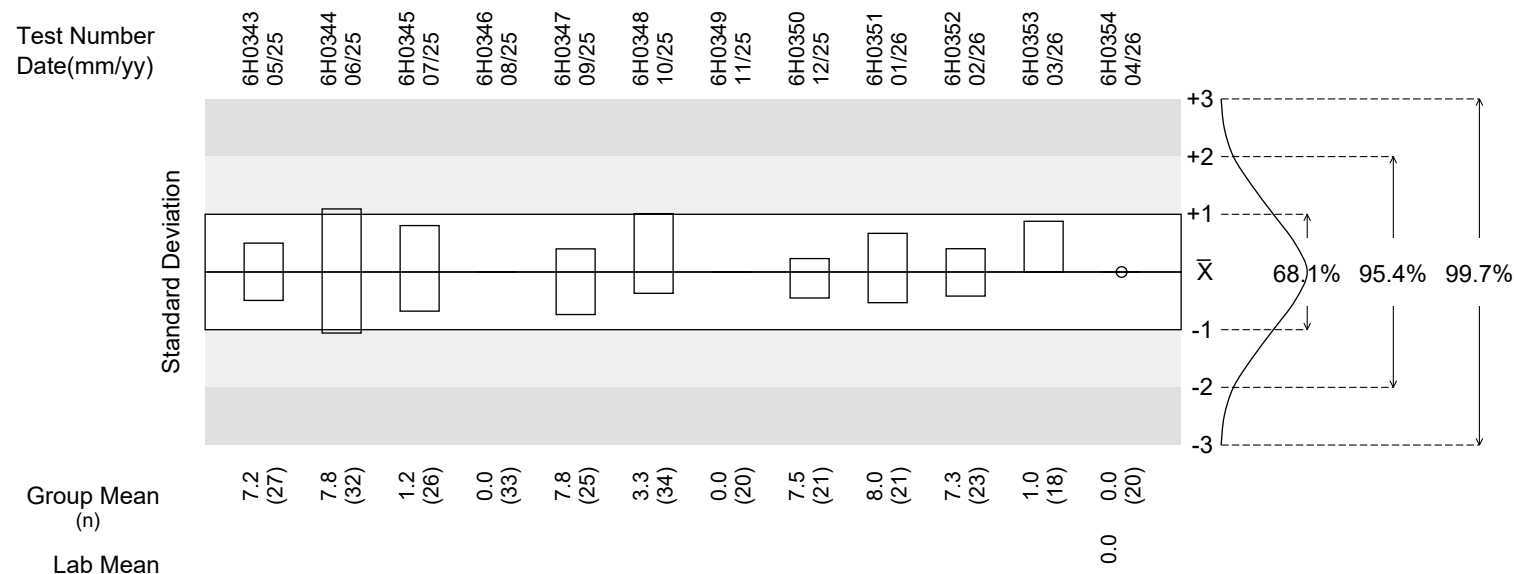
Group Value		
Mean	SD	n
0.0	0.00	20

Accuracy	Precision Estimates		Precision Factors	
	Laboratory	Ref. Standard		Group
	Mean Difference	within +/- 0.0	Repeatability (r)	0.000
	Z-Score	within +/- 2.00	Reproducibility (R)	0.000
Relative Difference(%)		within +/- 0	Confidence Interval	0.000

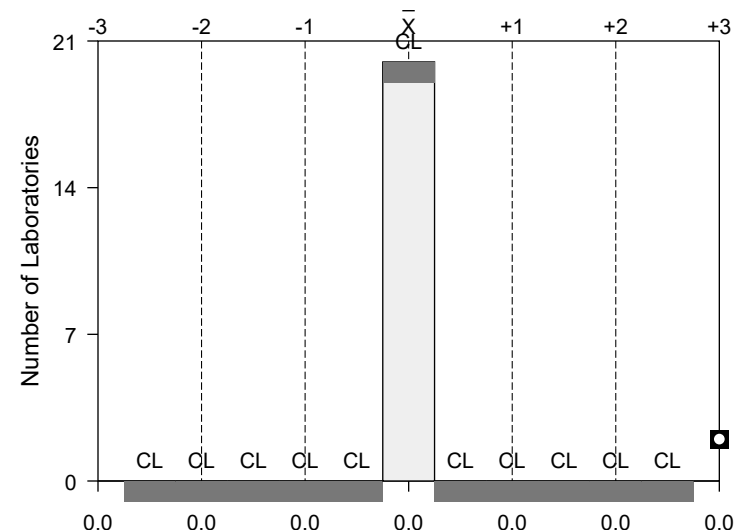
Precision Ratio	0.00	< 2.8
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Current Round	Trend	Bias	Consistency	Rule 1	Rule 2	Rule 3	Rule 4
	NA	NA	NA	0	0	0	0

HISTORICAL PERFORMANCE



FREQUENCY DISTRIBUTION



**PARAMETER REPORT: Carbon, C, Dry % by wt****6H0354**, 6H, High Rank Coal; 65 Mesh (212um)**Reported Method:** ASTM D5373**Reported Instrument:** LECO CHN828**Reported Ref. Material:** Other; etc

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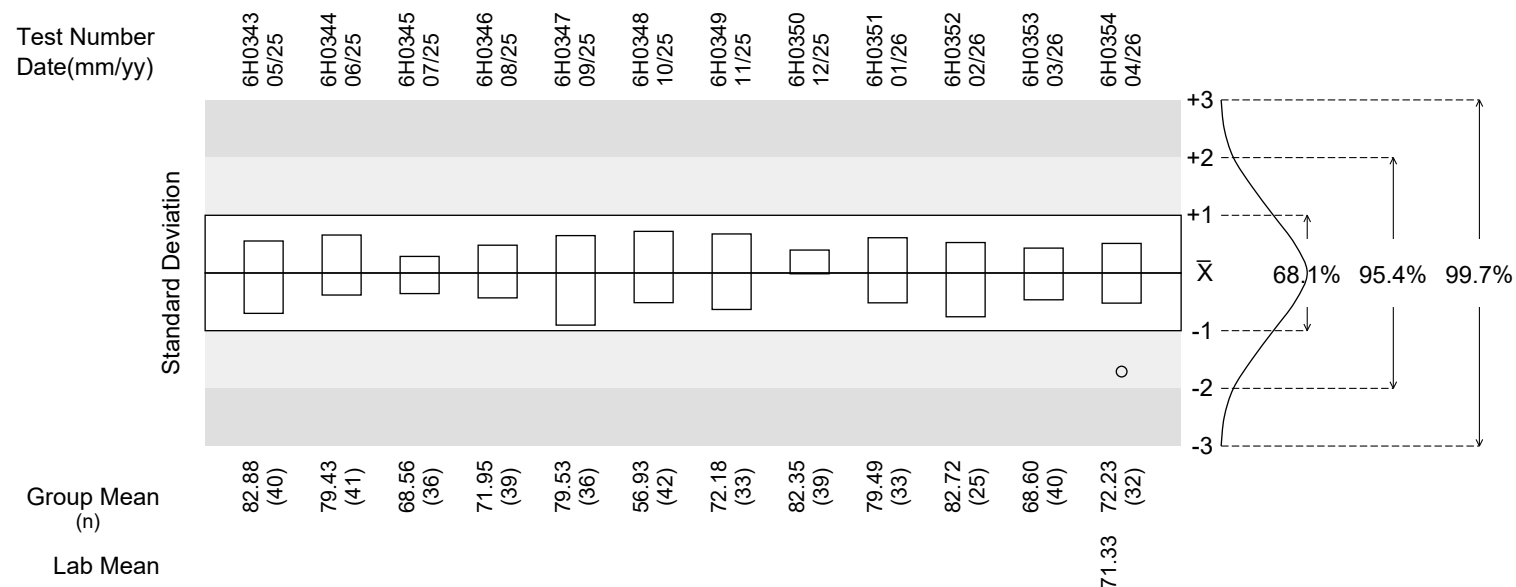
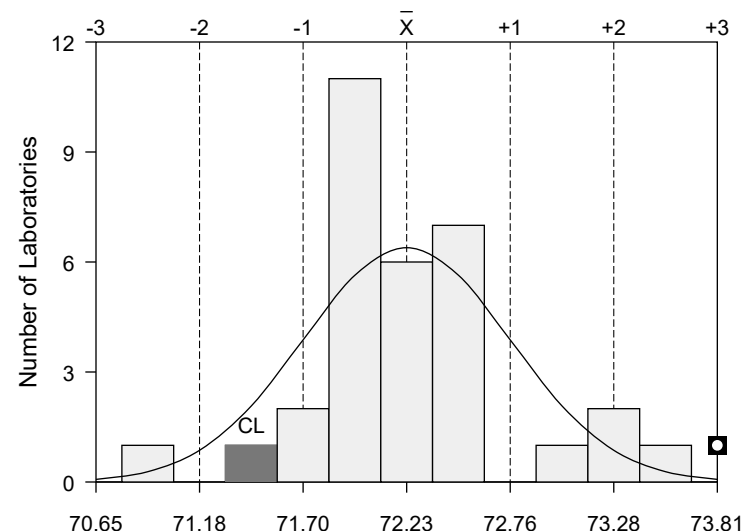
Lab Value	
Mean	SD
71.33	0.113

Group Value		
Mean	SD	n
72.23	0.527	32

Accuracy	Precision Estimates		Precision Factors	
	Laboratory	Ref. Standard		Group
	Mean Difference	within +/- 1.05	Repeatability (r)	0.296
	Z-Score	within +/- 2.00	Reproducibility (R)	1.489
Relative Difference(%)		within +/- 1.45	Confidence Interval	0.190

Precision Ratio	
1.07	< 2.8

Current Round						
Trend	Bias	Consistency	Rule 1	Rule 2	Rule 3	Rule 4
NA	NA	NA	0	0	0	0

HISTORICAL PERFORMANCE**FREQUENCY DISTRIBUTION**

**PARAMETER REPORT: Hydrogen, H, Dry % by wt****6H0354**, 6H, High Rank Coal; 65 Mesh (212um)**Reported Method:** ASTM D5373**Reported Instrument:** LECO CHN828**Reported Ref. Material:** Other; etc

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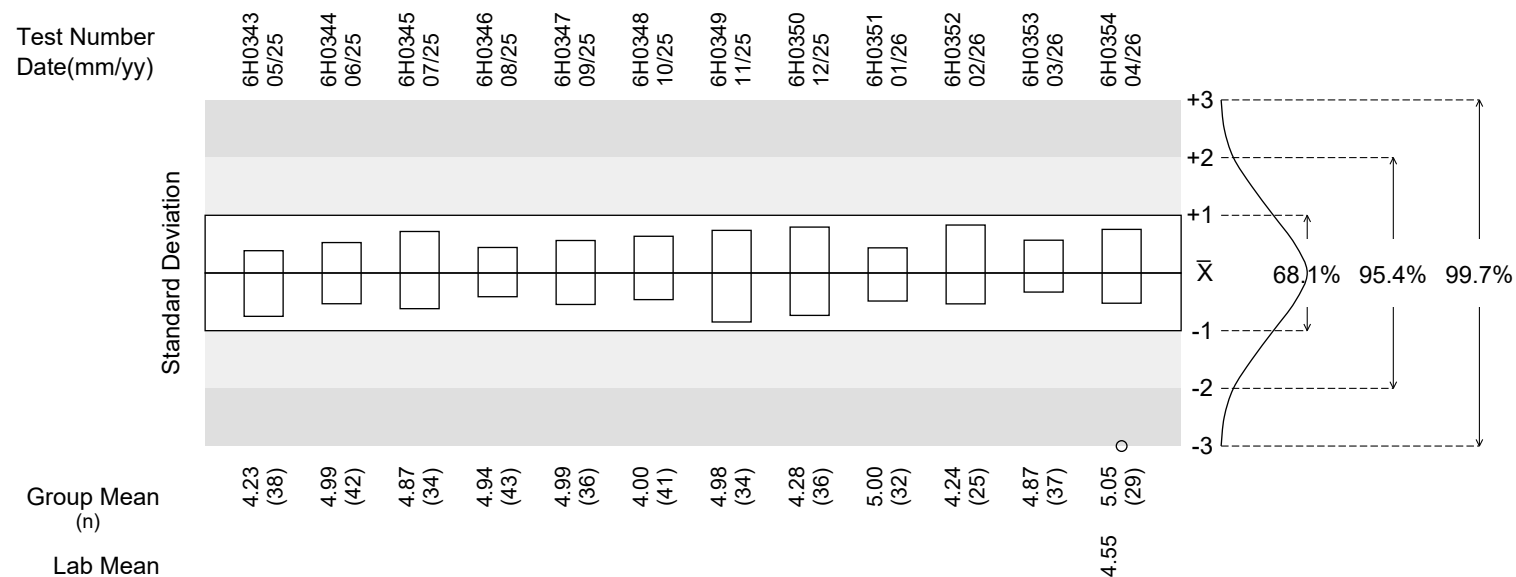
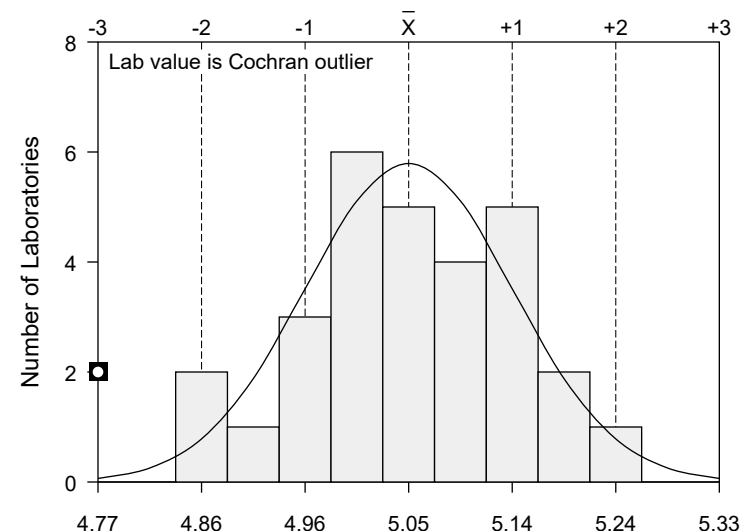
Lab Value	
Mean	SD
4.55	0.156

Group Value		
Mean	SD	n
5.05	0.094	29

Accuracy	Precision Estimates		Precision Factors	
	Laboratory	Ref. Standard		Group
	Mean Difference	within +/- 0.19	Repeatability (r)	0.054
	Z-Score	within +/- 2.00	Reproducibility (R)	0.265
Relative Difference(%)		within +/- 3.76	Confidence Interval	0.036

Precision Ratio	
8.01	< 2.8

Current Round	Trend	Bias	Consistency	Rule 1	Rule 2	Rule 3	Rule 4
	NA	NA	NA	1	0	0	0

HISTORICAL PERFORMANCE**FREQUENCY DISTRIBUTION**

**PARAMETER REPORT: Nitrogen, N, Dry % by wt****6H0354**, 6H, High Rank Coal; 65 Mesh (212um)**Reported Method:** ASTM D5373**Reported Instrument:** LECO CHN828**Reported Ref. Material:** Other; etc

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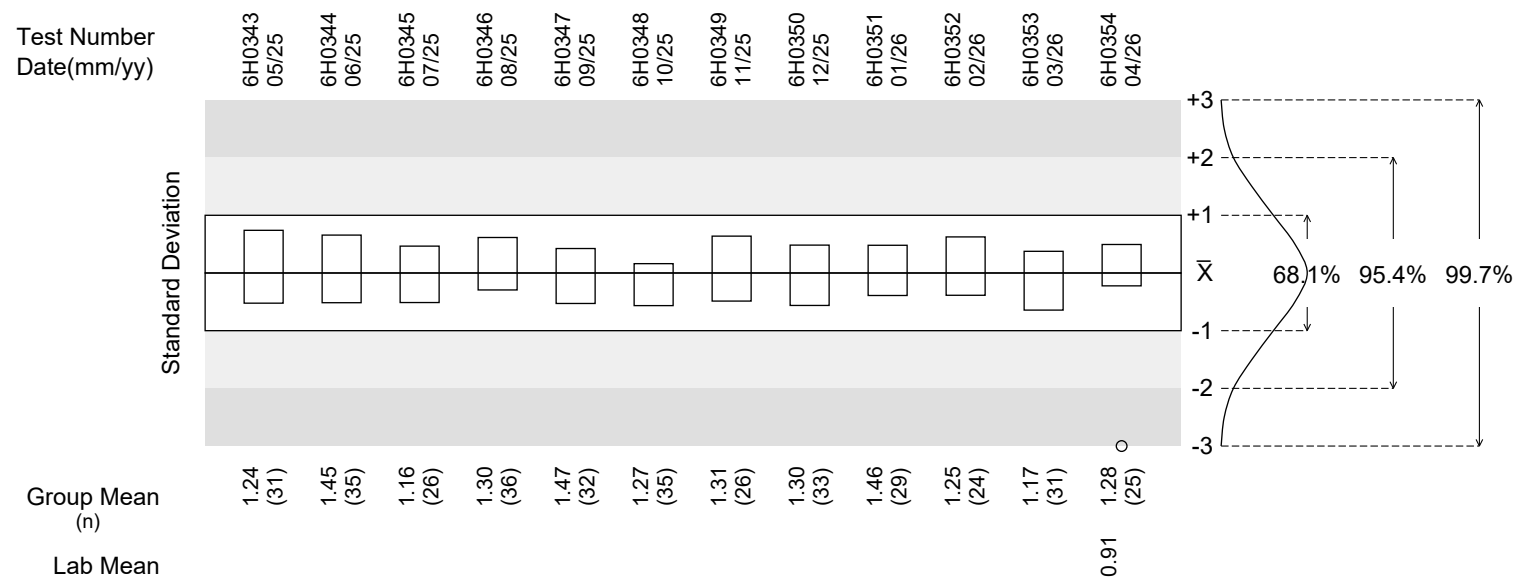
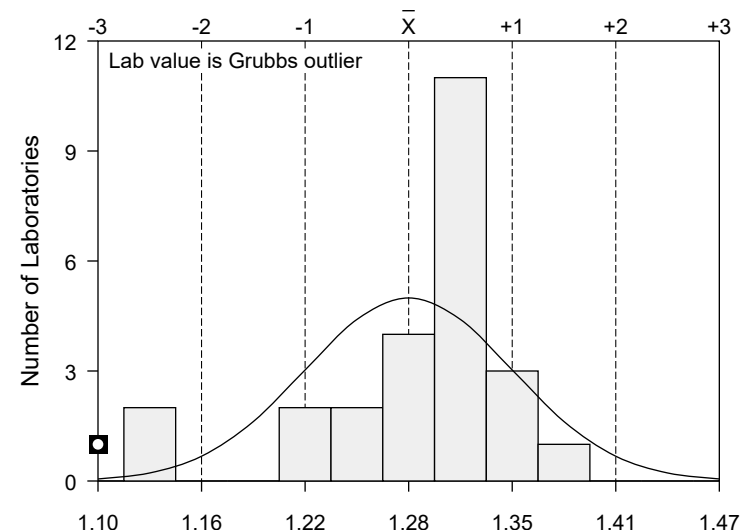
Lab Value	
Mean	SD
0.91	0.021

Group Value		
Mean	SD	n
1.28	0.063	25

Accuracy	Precision Estimates		Precision Factors	
	Laboratory	Ref. Standard		Group
	Mean Difference	within +/- 0.13	Repeatability (r)	0.024
	Z-Score	within +/- 2.00	Reproducibility (R)	0.176
Relative Difference(%)		within +/- 10.16	Confidence Interval	0.026

Precision Ratio	2.50	< 2.8
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Current Round	Trend	Bias	Consistency	Rule 1	Rule 2	Rule 3	Rule 4
	NA	NA	NA	1	0	0	0

HISTORICAL PERFORMANCE**FREQUENCY DISTRIBUTION**

**PARAMETER REPORT: Mercury, Hg, Dry ug/kg****6H0354**, 6H, High Rank Coal; 65 Mesh (212um)**Reported Method:** ASTM D6722**Reported Instrument:** MILESTONE DMA-80**Reported Ref. Material:** Other

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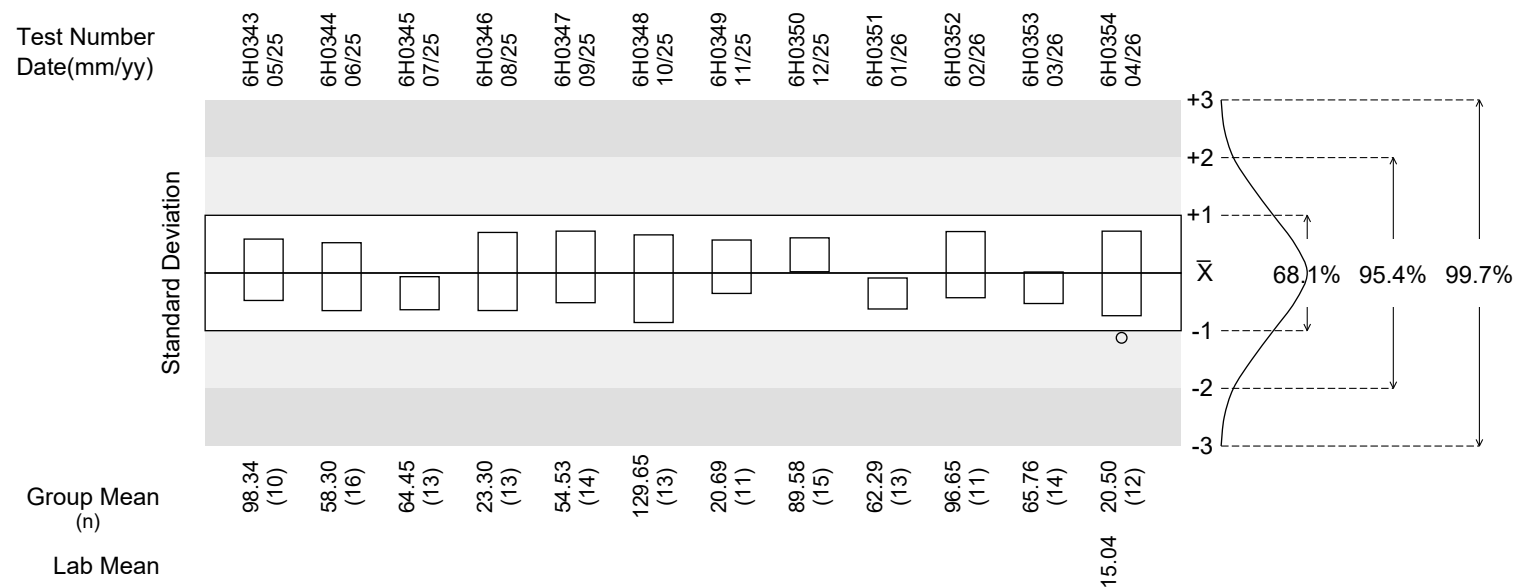
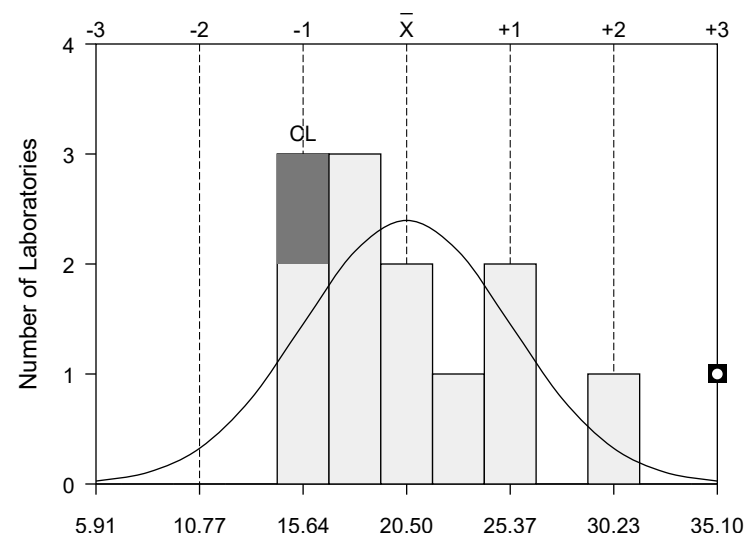
Lab Value	
Mean	SD
15.04	0.686

Group Value		
Mean	SD	n
20.50	4.865	12

Accuracy	Precision Estimates		Precision Factors	
	Laboratory	Ref. Standard		Group
	Mean Difference	within +/- 9.73	Repeatability (r)	0.002
	Z-Score	within +/- 2.00	Reproducibility (R)	0.014
Relative Difference(%)		within +/- 47.46	Confidence Interval	0.003

Precision Ratio	0.83	< 2.8
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Current Round	Trend	Bias	Consistency	Rule 1	Rule 2	Rule 3	Rule 4
	NA	NA	NA	0	0	0	0

HISTORICAL PERFORMANCE**FREQUENCY DISTRIBUTION**

**PARAMETER REPORT: Sulfur, S, Dry % by wt****6H0354**, 6H, High Rank Coal; 65 Mesh (212um)**Reported Method:** ASTM D4239**Reported Instrument:** LECO S832 HT**Reported Ref. Material:** Other; etc

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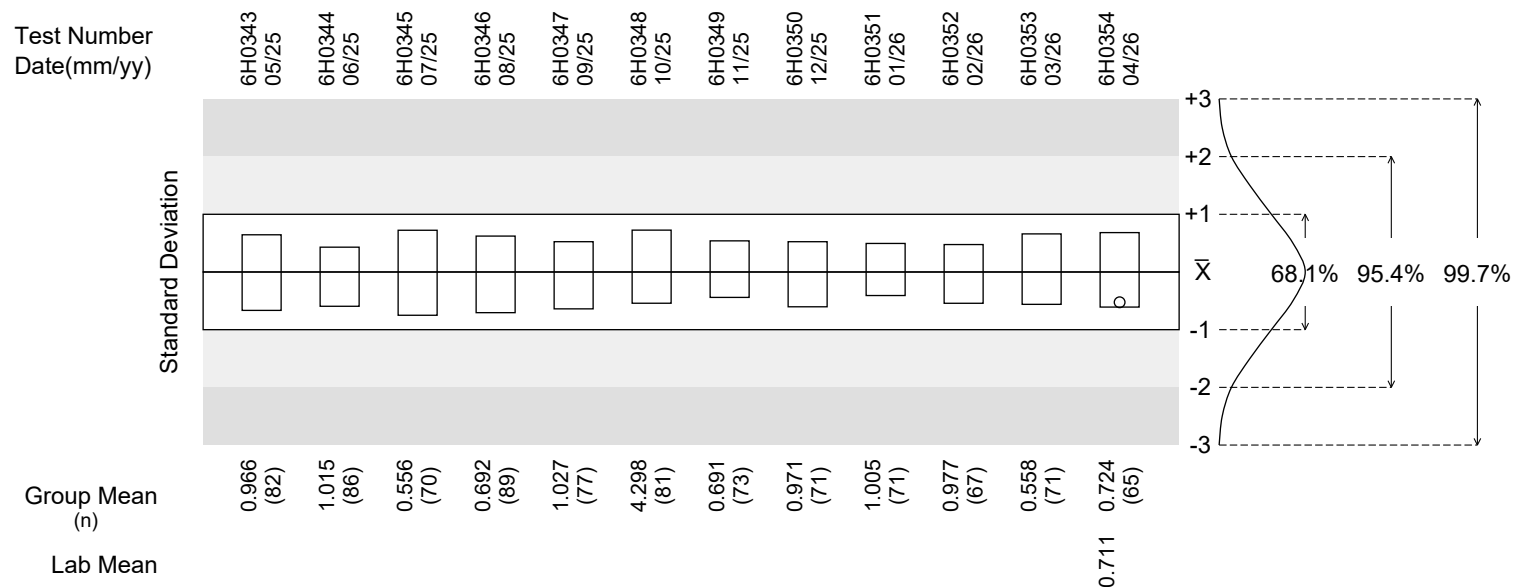
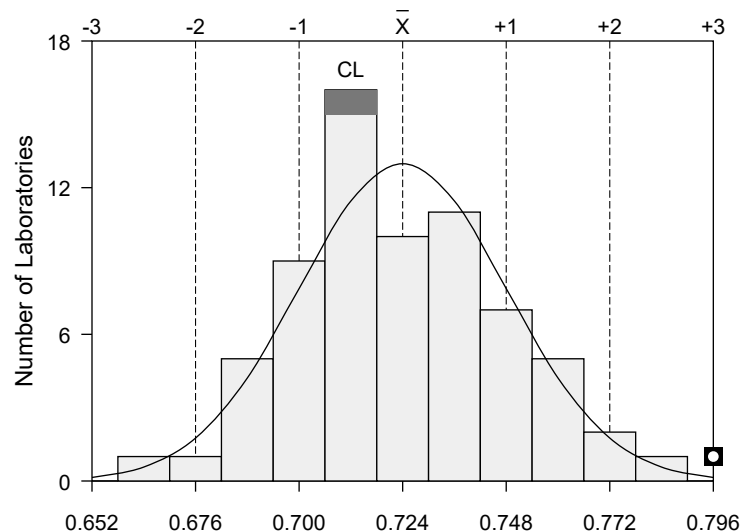
Lab Value	
Mean	SD
0.711	0.0141

Group Value		
Mean	SD	n
0.724	0.0240	65

Accuracy	Precision Estimates		Precision Factors	
	Laboratory	Ref. Standard		Group
	Mean Difference	within +/- 0.048	Repeatability (r)	0.0230
	Z-Score	within +/- 2.00	Reproducibility (R)	0.0691
Relative Difference(%)		within +/- 6.63	Confidence Interval	0.0060

Precision Ratio	
1.72	< 2.8

Current Round	Trend	Bias	Consistency	Rule 1	Rule 2	Rule 3	Rule 4
	NA	NA	NA	0	0	0	0

HISTORICAL PERFORMANCE**FREQUENCY DISTRIBUTION**



PERFORMANCE SUMMARY

6H0354, 6H, High Rank Coal; 65 Mesh (212um)
Material Source: SGS East Chicago

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	6H0354		Historical Performance										
			Average Value										
			n	Accuracy		Trend	Bias	Consistency	Rule Violations				
	Z-Score	Percentile		Z-Score	Percentile				1	2	3	4	
Moisture, 60 Mesh	-0.78	45	1	0.78	45	NA	NA	NA	0	0	0	0	
Ash, Dry	1.12	26	1	1.12	26	NA	NA	NA	0	0	0	0	
Volatile, Dry ASTM	-3.09	7	1	3.00	7	NA	NA	NA	1	0	0	0	
Calorific Value, Dry	-0.41	66	1	0.41	66	NA	NA	NA	0	0	0	0	
Free Swelling Index	0.00	100	1	0.00	100	NA	NA	NA	0	0	0	0	
Carbon, C, Dry	-1.71	18	1	1.71	18	NA	NA	NA	0	0	0	0	
Hydrogen, H, Dry	-5.32	6	1	3.00	6	NA	NA	NA	1	0	0	0	
Nitrogen, N, Dry	-6.04	4	1	3.00	4	NA	NA	NA	1	0	0	0	
Mercury, Hg, Dry	-1.12	31	1	1.12	31	NA	NA	NA	0	0	0	0	
Sulfur, S, Dry	-0.52	68	1	0.52	68	NA	NA	NA	0	0	0	0	

Percentiles

Percentiles range from 0 to 100.
Larger numbers indicate better performance.

Legend

A = Acceptable
M = Marginal
U = Unacceptable
n.a. = Not applicable

Indications that Process is Not in Control

Rule 1: A single point falls outside three-sigma control limits.
Rule 2: At least 2 out of 3 successive values fall on the same side of, and more than two-sigma away from, the central line.
Rule 3: At least 4 out of 5 successive values fall on the same side of, and more than one-sigma away from, the central line.
Rule 4: At least 8 successive values fall on the same side of the central line.



PERFORMANCE SUMMARY

6H0354, 6H, High Rank Coal; 65 Mesh (212um)

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END OF REPORT

**COVER PAGE****6L0354**, 6L, Low Rank Coal, 65 Mesh (212um)**Material Source:** SGS Kemmerer**Report Version:** Version 1

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Version 1

Please find following your Final LQSi PTP Report (**Version 1**) for this round. We thank you for submitting your data on time, allowing LQSi to submit our Reports to PTP Projects in a timely manner. If you have any questions regarding this Report, please notify us immediately at lqsi@sgs.com with as much detail as possible.

This report was prepared and reviewed by authorized members of the LQSi Staff.

Sidney Clayborn

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The use of affiliates and/or subcontracting done in support of LQSi PTPs may include but is not limited to the following:

- Chemical analysis of samples for the purpose of determining homogeneity and suitability.
- Preparation and distribution of Geochemical Test Samples.

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A Key Performance Indicator Report (KPI) is posted in your Project library at www.lqsi.com on or after the 6th of the month.

There are additional documents that may assist in your understanding of this report. These documents can be found under Public Library at our website www.lqsi.com.

Here is a list of some of the more pertinent documents

Document Number	Title
524	PTP Types
654	Confidentiality Integrity; English
701	User's Manual
831	Confidentiality Agreement
864	Training Manual

Document Number	Title
872	Basic Statistics 101
872	Statistics Mean
0872 Outlier	Outlier Test
0872 Outlier	Outlier Test (*xlsx)
873	Use of MSRs

We appreciate any comments that you may have about the LQSi SAMS2 system (e.g., data entry, registration, etc.)



STATISTICAL SUMMARY

6L0354, 6L, Low Rank Coal, 65 Mesh (212um)

Material Source: SGS Kemmerer

Report Version: Version 1

Customer No: 037290

Servicio Geologico Colombiano

SGC - Bogota Laboratory CO

Issued Date: 20 Apr. 2026 07:40PM

Version 1

PARAMETER

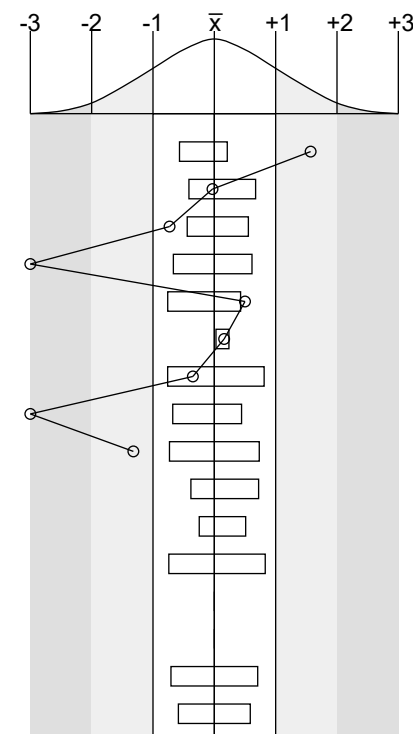
Unit

Moisture, 60 Mesh
Ash, Dry
Volatile, Dry ASTM
Sulfur, S, Dry
Calorific Value, Dry
Carbon, C, Dry
Hydrogen, H, Dry
Nitrogen, N, Dry
Mercury, Hg, Dry
Volatile, Dry ISO
Calorific Value, as Rec
Chlorine, Cl, Dry
Sulfur, Pyritic, Dry
Sulfur, Sulfate, Dry
Fluorine, F, Dry
Sodium Oxide, Na₂O, Dry

% by wt
% by wt
% by wt
% by wt
BTU/lb
% by wt
% by wt
% by wt
ug/kg
% by wt
BTU/lb
% by wt
% by wt
% by wt
mg/kg
% by wt

Lab Value	
Mean	SD
11.72	0.134
5.13	0.007
42.46	0.014
0.635	0.0064
12493	2.1
72.13	0.078
4.91	0.014
0.93	0.028
17.46	0.940

% Rel Diff	Z-Score	Precision Ratio
2.01	1.57	2.27
-0.06	-0.03	0.16
-0.51	-0.73	0.10
-16.94	-11.64	0.81
0.17	0.50	0.18
0.18	0.16	0.69
-0.52	-0.35	0.37
-25.13	-10.77	1.90
-9.85	-1.32	0.88



Group Value		
Mean	SD	n
11.48	0.147	21
5.13	0.129	27
42.68	0.298	11
0.764	0.0111	19
12471	43.4	22
72.00	0.793	8
4.94	0.073	8
1.24	0.029	7
19.36	1.449	4
42.44	0.129	11
11026	48.9	17
0.006	0.0019	6
0.165	0.0000	1
0.010	0.0000	1
41.30	6.286	2
0.36	0.015	4

**PARAMETER REPORT: Moisture, 60 Mesh % by wt****6L0354**, 6L, Low Rank Coal, 65 Mesh (212um)**Reported Method:** ASTM D7582**Reported Instrument:** LECO TGA701**Reported Ref. Material:** Other

Customer No: 037290

Servicio Geologico Colombiano

SGC - Bogota Laboratory CO

Issued Date: 20 Apr. 2026 07:40PM

Version 1

STATISTICS

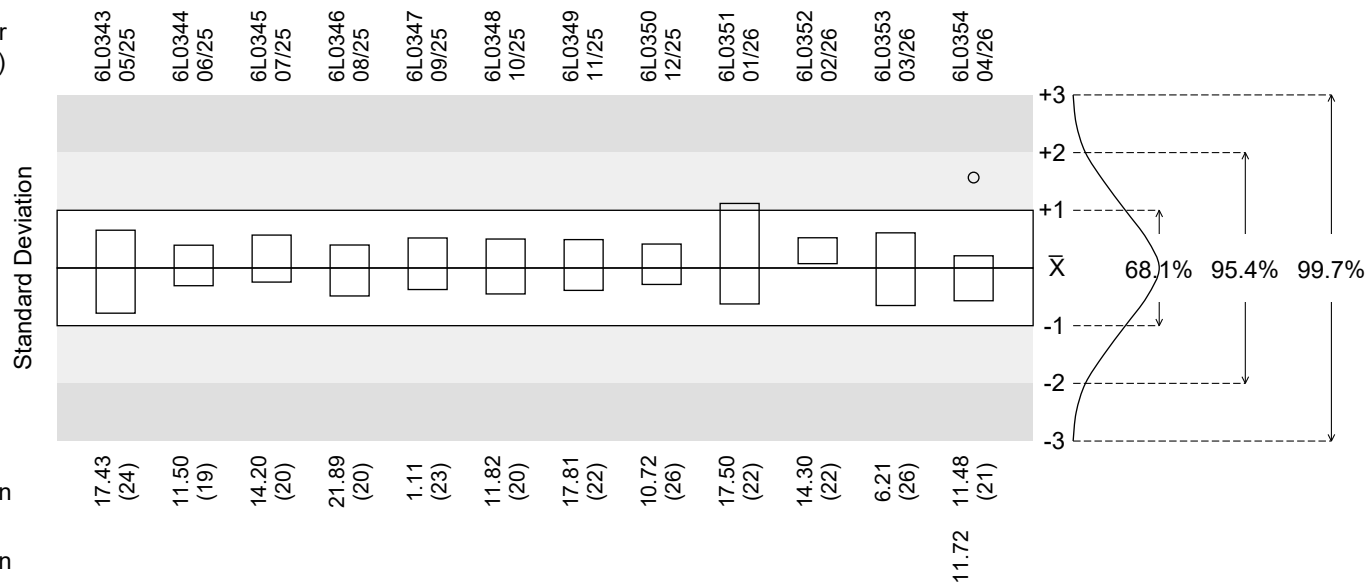
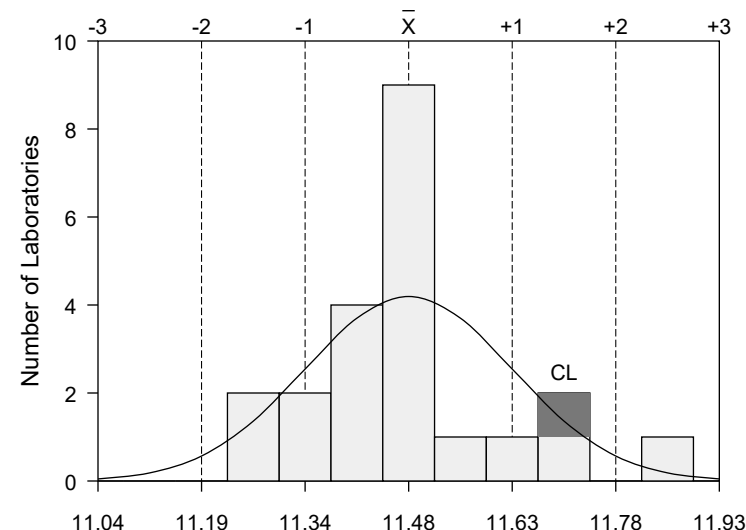
Lab Value	
Mean	SD
11.72	0.134

Group Value		
Mean	SD	n
11.48	0.147	21

Accuracy	Precision Estimates		Precision Factors	
	Laboratory	Ref. Standard		Group
	Mean Difference	within +/- 0.29	Repeatability (r)	0.166
	Z-Score	within +/- 2.00	Reproducibility (R)	0.429
Relative Difference(%)		within +/- 2.53	Confidence Interval	0.067

Precision Ratio	2.27	< 2.8
-----------------	------	-------

Current Round	Trend	Bias	Consistency	Rule 1	Rule 2	Rule 3	Rule 4
	NA	NA	NA	0	0	0	0

HISTORICAL PERFORMANCETest Number
Date(mm/yy)**FREQUENCY DISTRIBUTION**

**PARAMETER REPORT: Ash, Dry % by wt****6L0354**, 6L, Low Rank Coal, 65 Mesh (212um)**Reported Method:** ASTM D7582**Reported Instrument:** LECO TGA701**Reported Ref. Material:** Other

Customer No: 037290

Servicio Geologico Colombiano

SGC - Bogota Laboratory CO

Issued Date: 20 Apr. 2026 07:40PM

Version 1

STATISTICS

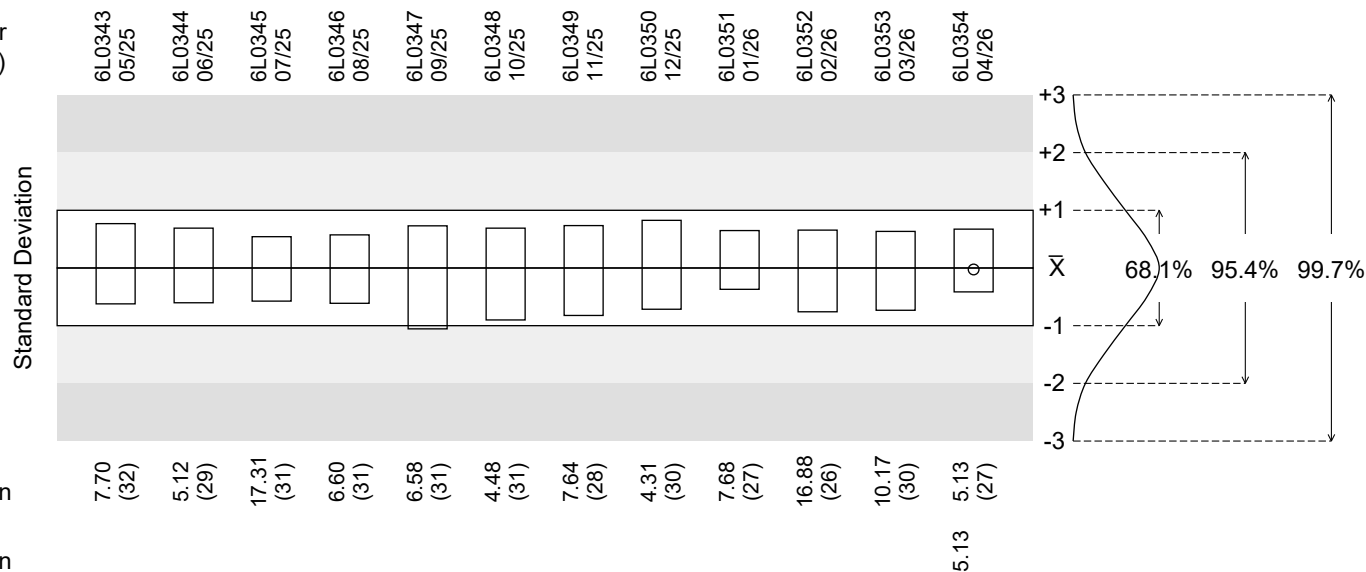
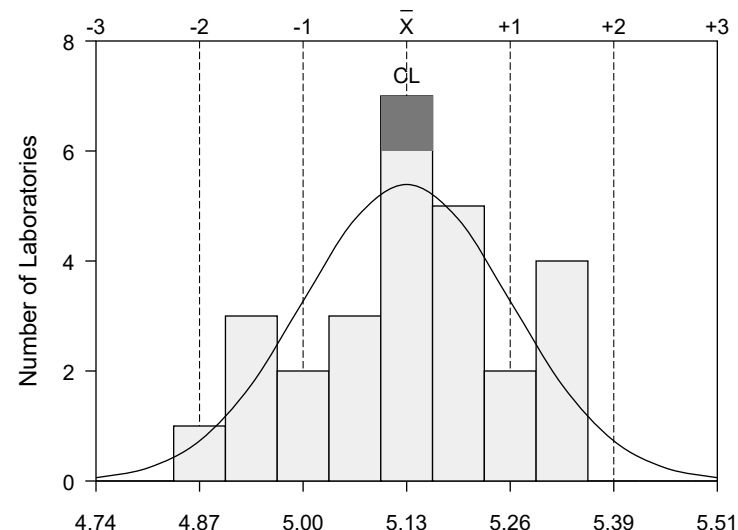
Lab Value	
Mean	SD
5.13	0.007

Group Value		
Mean	SD	n
5.13	0.129	27

Accuracy	Precision Estimates		Precision Factors	
	Laboratory	Ref. Standard		Group
	Mean Difference	within +/- 0.26	Repeatability (r)	0.127
	Z-Score	within +/- 2.00	Reproducibility (R)	0.371
Relative Difference(%)		within +/- 5.07	Confidence Interval	0.051

Precision Ratio	0.16	< 2.8
-----------------	------	-------

Current Round	Trend	Bias	Consistency	Rule 1	Rule 2	Rule 3	Rule 4
	NA	NA	NA	0	0	0	0

HISTORICAL PERFORMANCETest Number
Date(mm/yy)**FREQUENCY DISTRIBUTION**

**PARAMETER REPORT: Volatile, Dry ASTM % by wt****6L0354**, 6L, Low Rank Coal, 65 Mesh (212um)**Reported Method:** ASTM D7582**Reported Instrument:** LECO TGA701**Reported Ref. Material:** Other

Customer No: 037290

Servicio Geologico Colombiano

SGC - Bogota Laboratory CO

Issued Date: 20 Apr. 2026 07:40PM

Version 1

STATISTICS

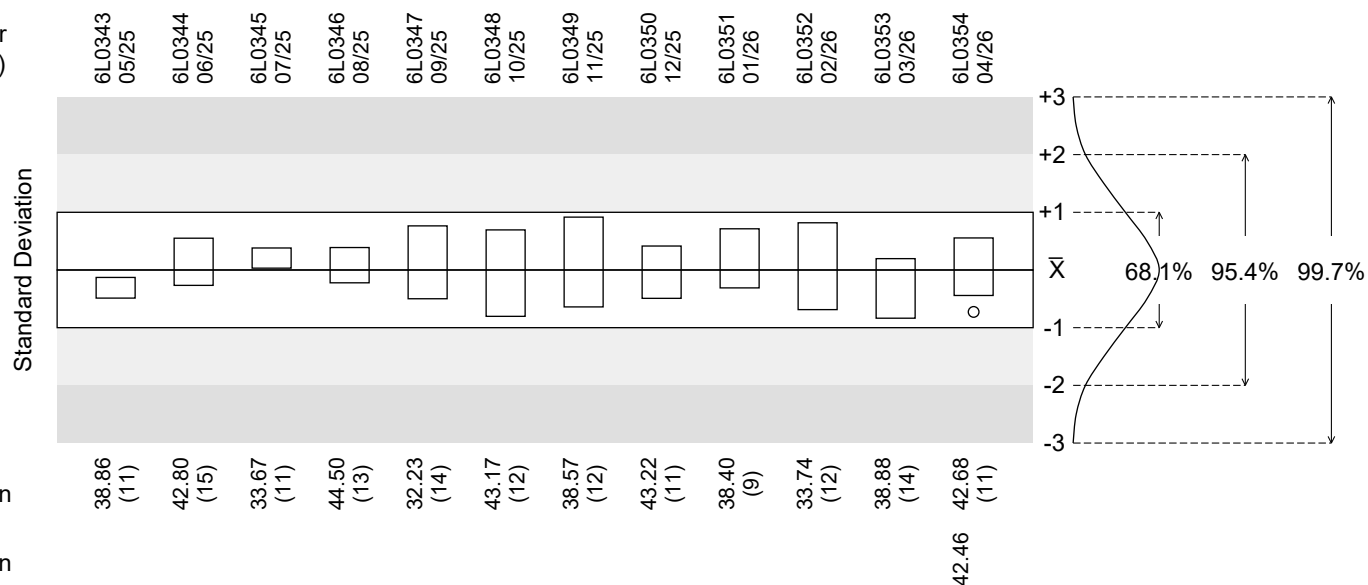
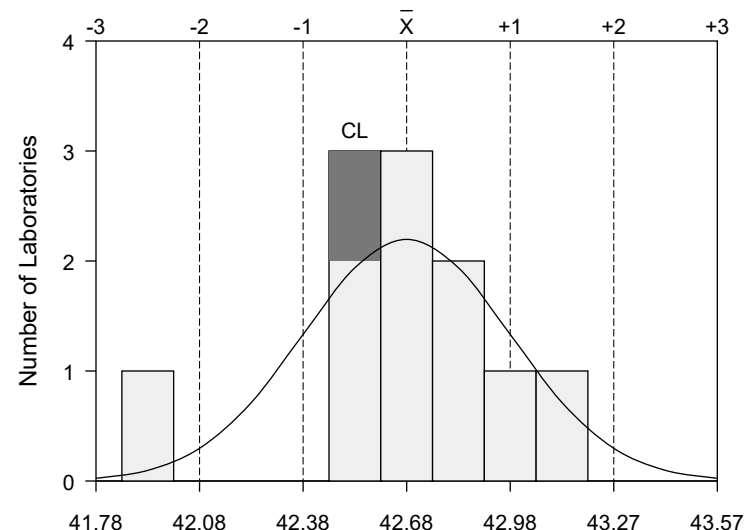
Lab Value	
Mean	SD
42.46	0.014

Group Value		
Mean	SD	n
42.68	0.298	11

Accuracy	Precision Estimates		Precision Factors	
	Laboratory	Ref. Standard		Group
	Mean Difference	within +/- 0.60	Repeatability (r)	0.406
	Z-Score	within +/- 2.00	Reproducibility (R)	0.883
Relative Difference(%)		within +/- 1.41	Confidence Interval	0.200

Precision Ratio	0.10	< 2.8
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Current Round	Trend	Bias	Consistency	Rule 1	Rule 2	Rule 3	Rule 4
	NA	NA	NA	0	0	0	0

HISTORICAL PERFORMANCETest Number
Date(mm/yy)**FREQUENCY DISTRIBUTION**

**PARAMETER REPORT: Sulfur, S, Dry % by wt****6L0354**, 6L, Low Rank Coal, 65 Mesh (212um)**Reported Method:** ASTM D4239**Reported Instrument:** LECO S832 HT**Reported Ref. Material:** Other

Customer No: 037290

Servicio Geologico Colombiano

SGC - Bogota Laboratory CO

Issued Date: 20 Apr. 2026 07:40PM

Version 1

STATISTICS

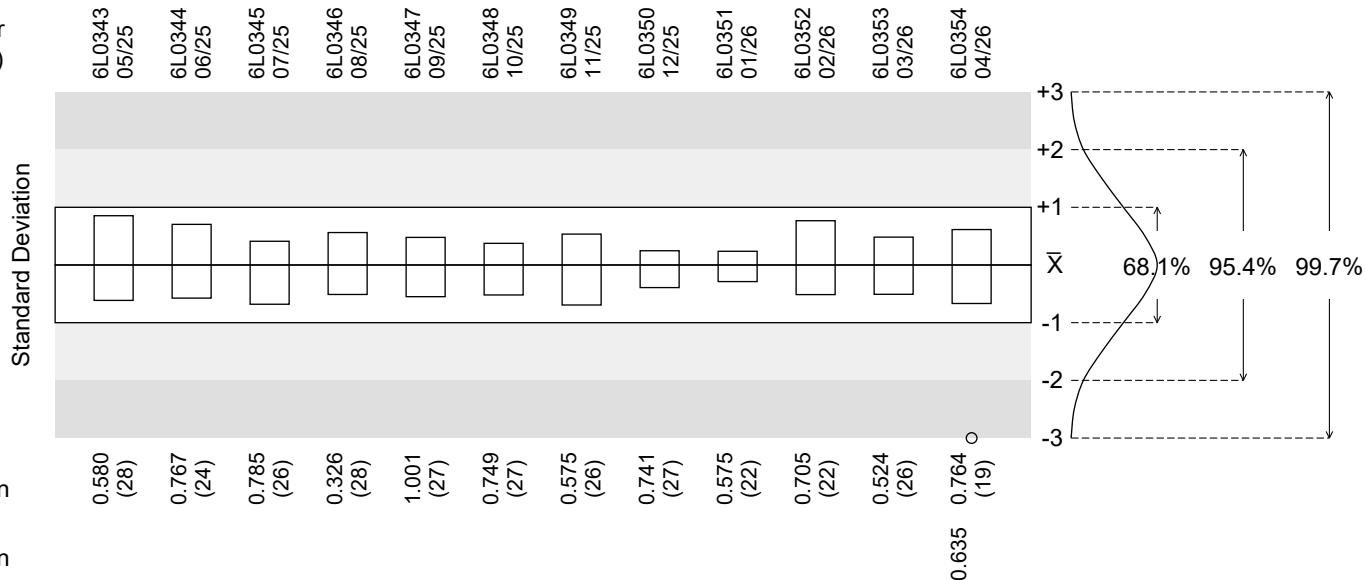
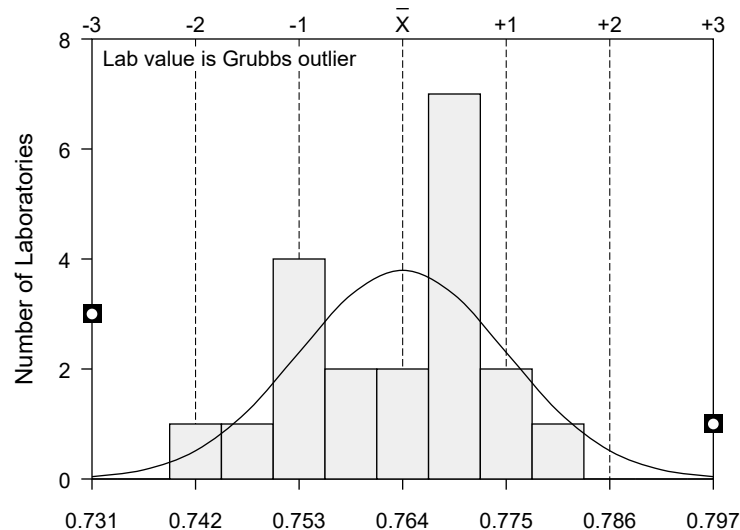
Lab Value	
Mean	SD
0.635	0.0064

Group Value		
Mean	SD	n
0.764	0.0111	19

Accuracy	Precision Estimates		Precision Factors	
	Laboratory	Ref. Standard		Group
	Mean Difference	within +/- 0.022	Repeatability (r)	0.0219
	Z-Score	within +/- 2.00	Reproducibility (R)	0.0347
Relative Difference(%)		within +/- 2.88	Confidence Interval	0.0054

Precision Ratio	0.81	< 2.8
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Current Round	Trend	Bias	Consistency	Rule 1	Rule 2	Rule 3	Rule 4
	NA	NA	NA	1	0	0	0

HISTORICAL PERFORMANCETest Number
Date(mm/yy)**FREQUENCY DISTRIBUTION**

**PARAMETER REPORT: Calorific Value, Dry BTU/lb****6L0354**, 6L, Low Rank Coal, 65 Mesh (212um)**Reported Method:** ASTM D5865**Reported Instrument:** LECO AC-600**Reported Ref. Material:** Other

Customer No: 037290

Servicio Geologico Colombiano

SGC - Bogota Laboratory CO

Issued Date: 20 Apr. 2026 07:40PM

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STATISTICS

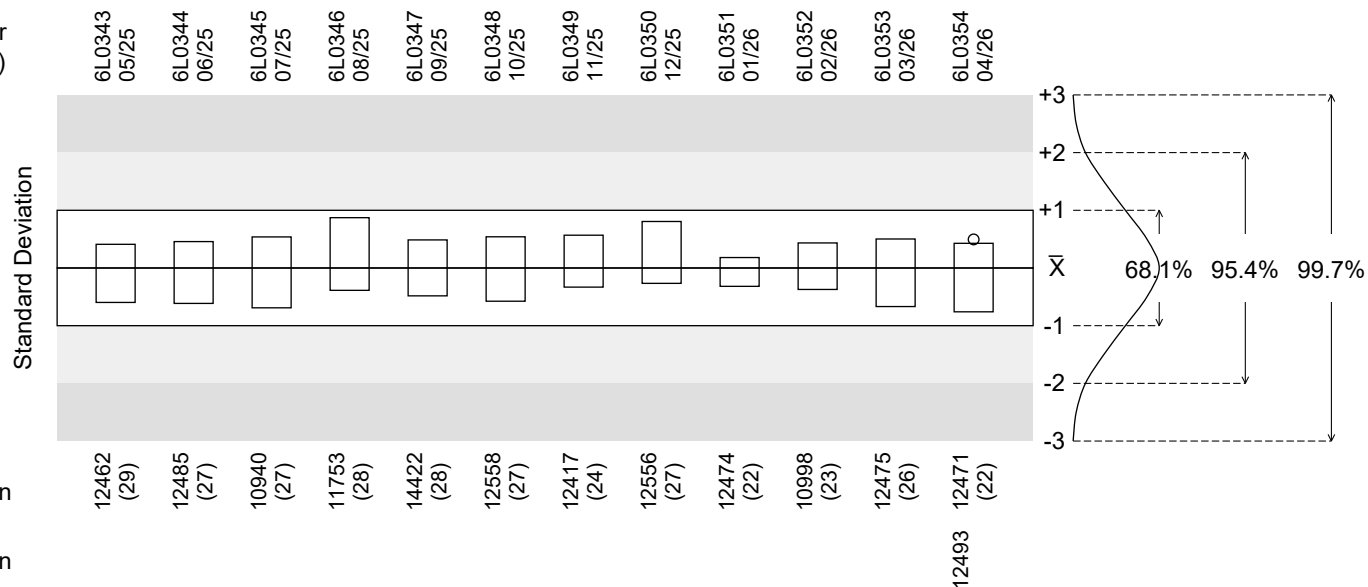
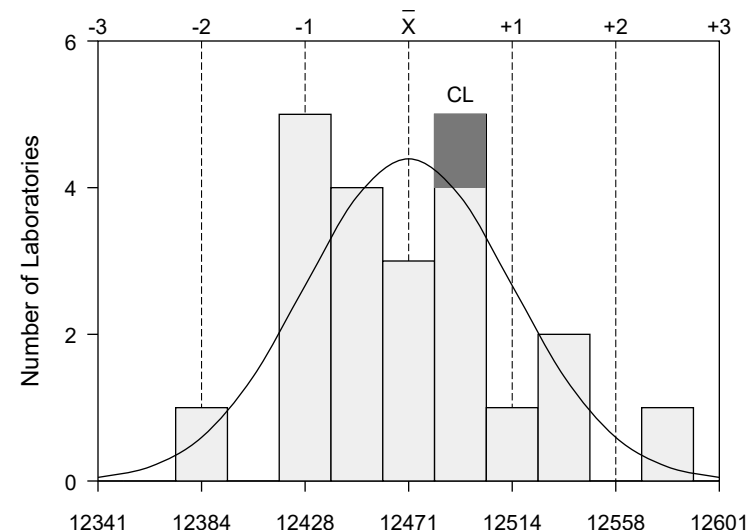
Lab Value	
Mean	SD
12493	2.1

Group Value		
Mean	SD	n
12471	43.4	22

Accuracy	Precision Estimates		Precision Factors	
	Laboratory	Ref. Standard		Group
	Mean Difference	22	Repeatability (r)	32.7
	Z-Score	0.50	Reproducibility (R)	123.8
Relative Difference(%)			Confidence Interval	19.3
	0.17	within +/- 0.70		

Precision Ratio		
	0.18	< 2.8

Current Round	Trend	Bias	Consistency	Rule 1	Rule 2	Rule 3	Rule 4
	NA	NA	NA	0	0	0	0

HISTORICAL PERFORMANCETest Number
Date(mm/yy)**FREQUENCY DISTRIBUTION**

**PARAMETER REPORT: Carbon, C, Dry % by wt****6L0354**, 6L, Low Rank Coal, 65 Mesh (212um)**Reported Method:** ASTM D5373**Reported Instrument:** LECO TRUSPEC CHN**Reported Ref. Material:** Other

Customer No: 037290

Servicio Geologico Colombiano

SGC - Bogota Laboratory CO

Issued Date: 20 Apr. 2026 07:40PM

Version 1

STATISTICS

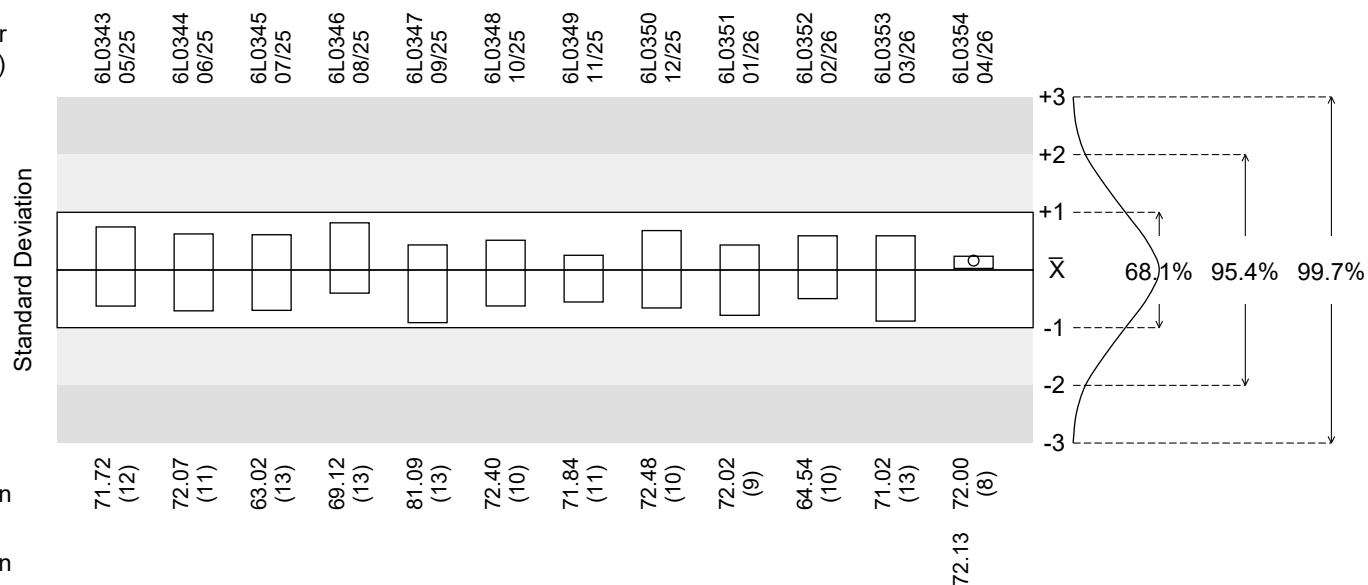
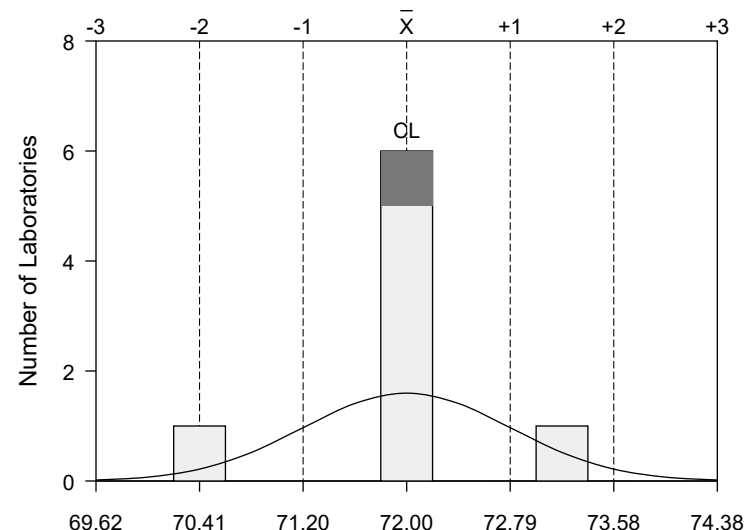
Lab Value	
Mean	SD
72.13	0.078

Group Value		
Mean	SD	n
72.00	0.793	8

Accuracy	Precision Estimates		Precision Factors	
	Laboratory	Ref. Standard		Group
	Mean Difference	within +/- 1.59	Repeatability (r)	0.315
	Z-Score	within +/- 2.00	Reproducibility (R)	2.232
Relative Difference(%)		within +/- 2.21	Confidence Interval	0.663

Precision Ratio	0.69	< 2.8
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Current Round	Trend	Bias	Consistency	Rule 1	Rule 2	Rule 3	Rule 4
	NA	NA	NA	0	0	0	0

HISTORICAL PERFORMANCETest Number
Date(mm/yy)**FREQUENCY DISTRIBUTION**

**PARAMETER REPORT: Hydrogen, H, Dry % by wt****6L0354**, 6L, Low Rank Coal, 65 Mesh (212um)**Reported Method:** ASTM D5373**Reported Instrument:** LECO TRUSPEC CHN**Reported Ref. Material:** Other

Customer No: 037290

Servicio Geologico Colombiano

SGC - Bogota Laboratory CO

Issued Date: 20 Apr. 2026 07:40PM

Version 1

STATISTICS

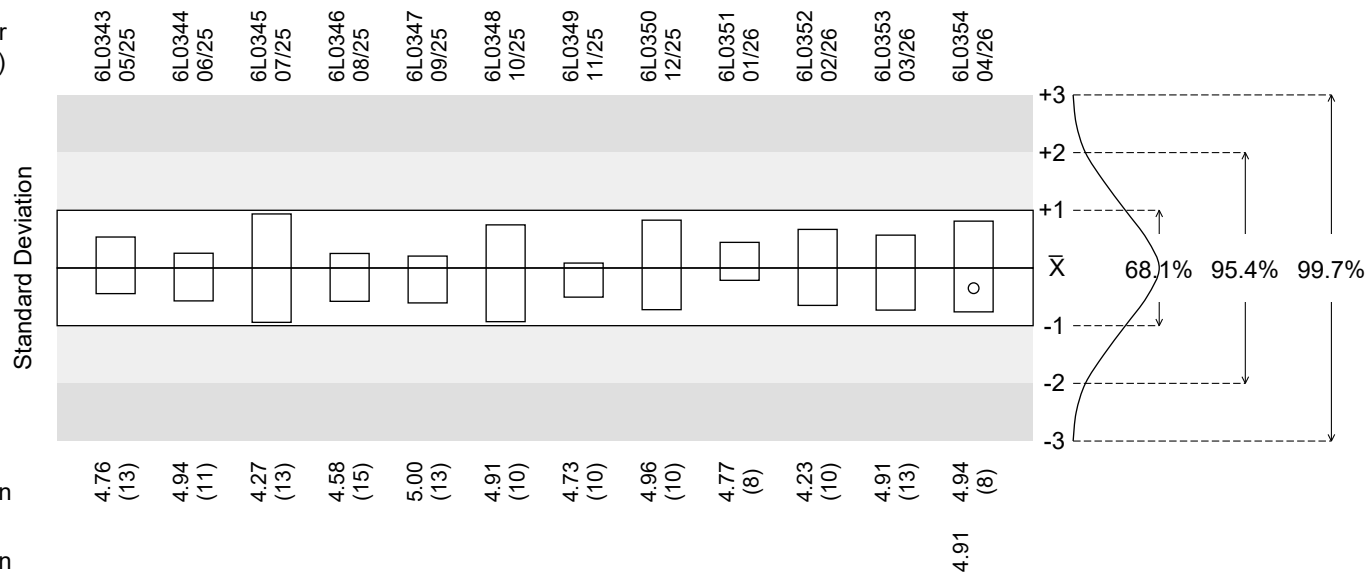
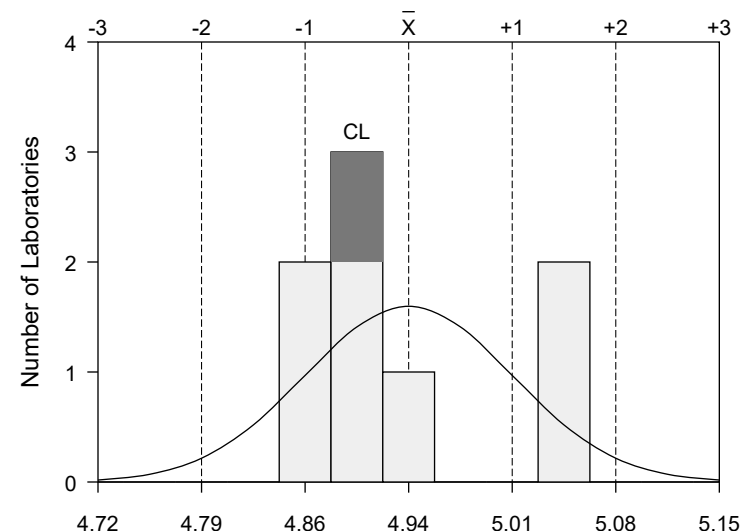
Lab Value	
Mean	SD
4.91	0.014

Group Value		
Mean	SD	n
4.94	0.073	8

Accuracy	Precision Estimates		Precision Factors	
	Laboratory	Ref. Standard		Group
	Mean Difference	within +/- 0.15	Repeatability (r)	0.106
	Z-Score	within +/- 2.00	Reproducibility (R)	0.218
Relative Difference(%)		within +/- 3.04	Confidence Interval	0.061

Precision Ratio	0.37	< 2.8
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Current Round	Trend	Bias	Consistency	Rule 1	Rule 2	Rule 3	Rule 4
	NA	NA	NA	0	0	0	0

HISTORICAL PERFORMANCETest Number
Date(mm/yy)**FREQUENCY DISTRIBUTION**

**PARAMETER REPORT: Nitrogen, N, Dry % by wt****6L0354**, 6L, Low Rank Coal, 65 Mesh (212um)**Reported Method:** ASTM D5373**Reported Instrument:** LECO TRUSPEC CHN**Reported Ref. Material:** Other

Customer No: 037290

Servicio Geologico Colombiano

SGC - Bogota Laboratory CO

Issued Date: 20 Apr. 2026 07:40PM

Version 1

STATISTICS

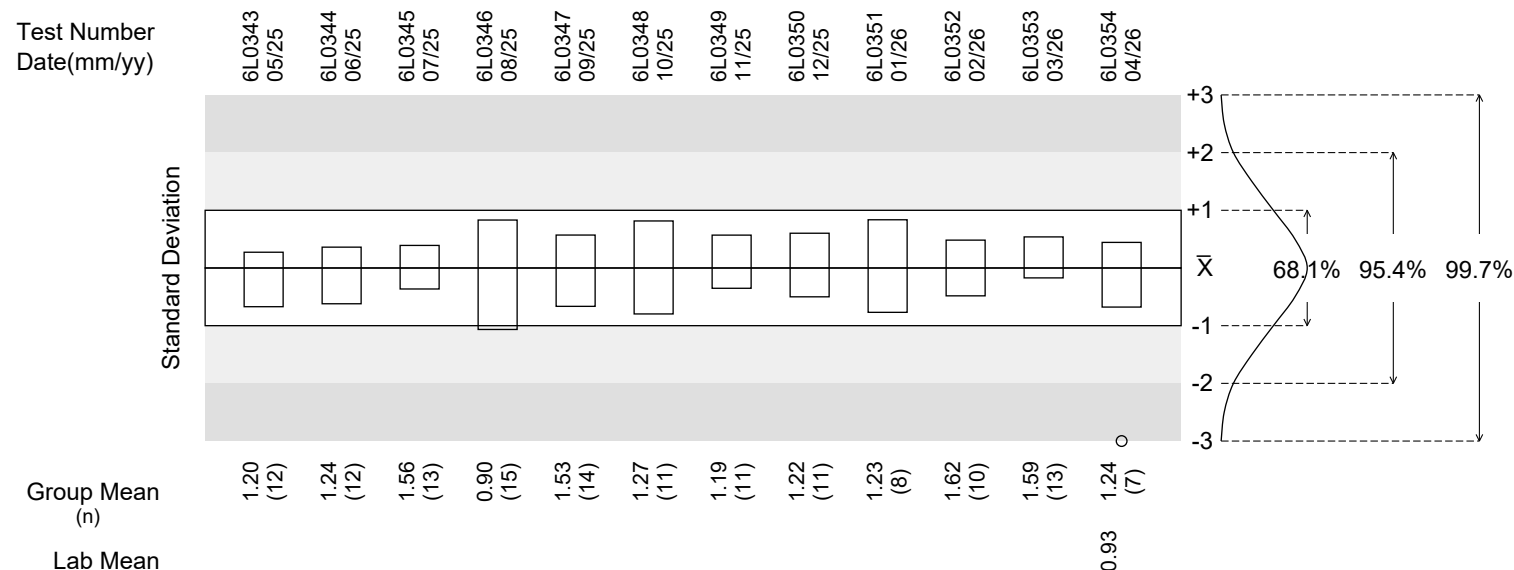
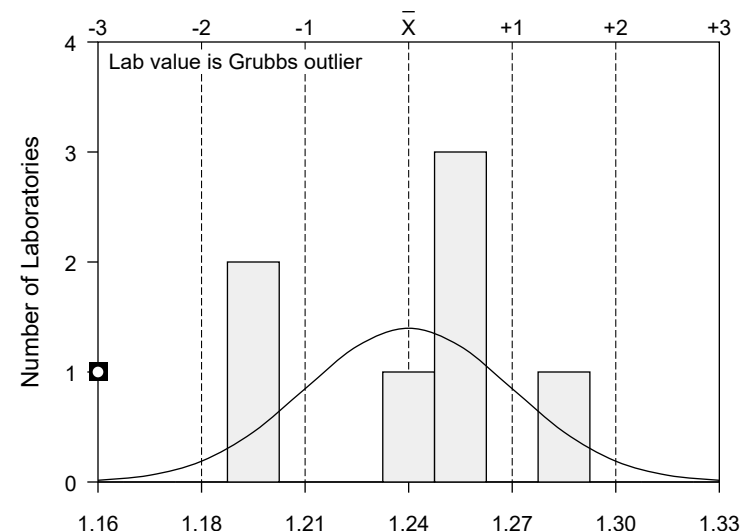
Lab Value	
Mean	SD
0.93	0.028

Group Value		
Mean	SD	n
1.24	0.029	7

Accuracy	Precision Estimates		Precision Factors	
	Laboratory	Ref. Standard		Group
	Mean Difference	within +/- 0.06	Repeatability (r)	0.042
	Z-Score	within +/- 2.00	Reproducibility (R)	0.086
Relative Difference(%)		within +/- 4.84	Confidence Interval	0.027

Precision Ratio	1.90	< 2.8
-----------------	------	-------

Current Round	Trend	Bias	Consistency	Rule 1	Rule 2	Rule 3	Rule 4
	NA	NA	NA	1	0	0	0

HISTORICAL PERFORMANCE**FREQUENCY DISTRIBUTION**

**PARAMETER REPORT: Mercury, Hg, Dry ug/kg****6L0354**, 6L, Low Rank Coal, 65 Mesh (212um)**Reported Method:** ASTM D6722**Reported Instrument:** MILESTONE DMA-80**Reported Ref. Material:** Other

Customer No: 037290

Servicio Geologico Colombiano

SGC - Bogota Laboratory CO

Issued Date: 20 Apr. 2026 07:40PM

Version 1

STATISTICS

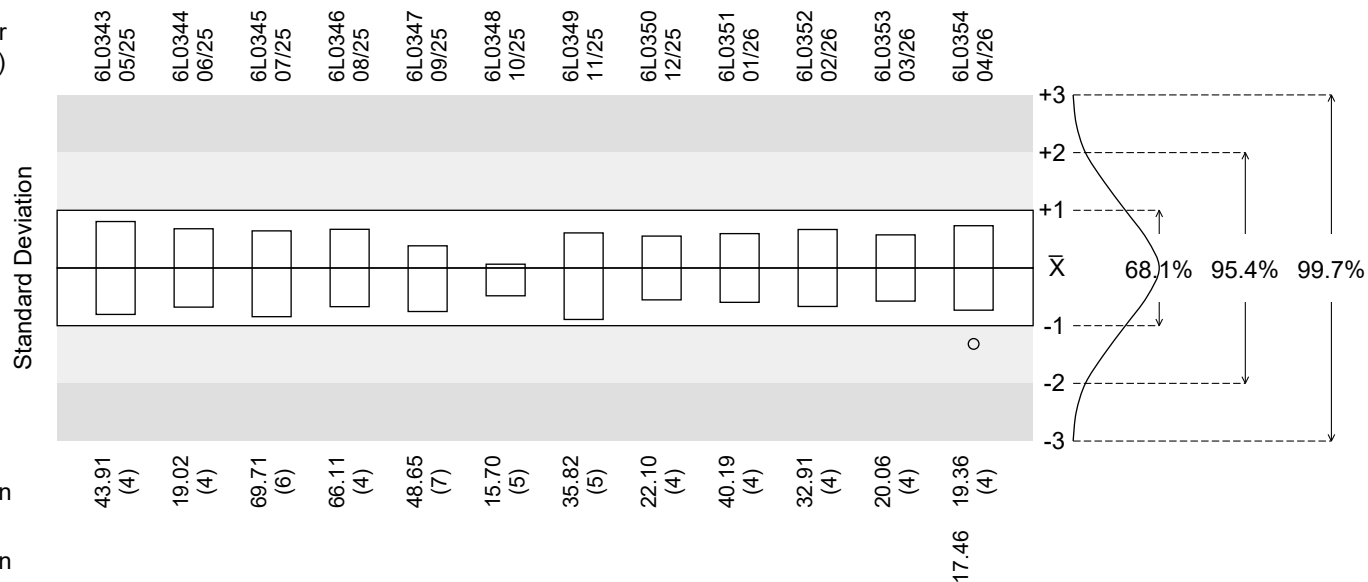
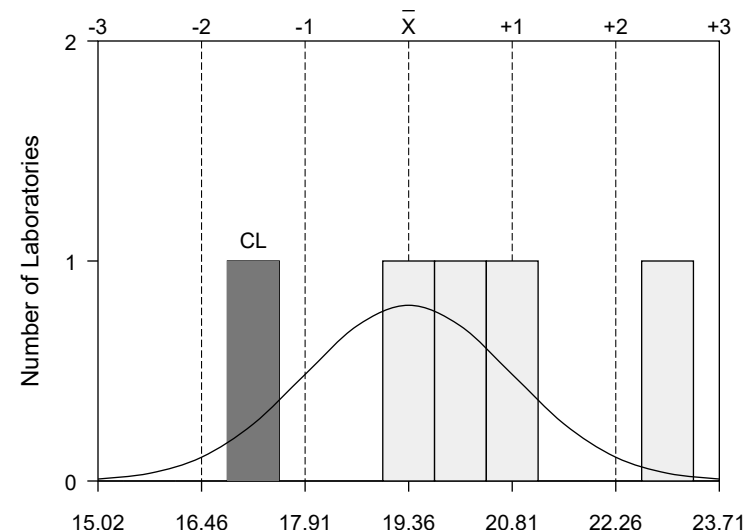
Lab Value	
Mean	SD
17.46	0.940

Group Value		
Mean	SD	n
19.36	1.449	4

Accuracy		Precision Estimates		Precision Factors	
Mean Difference	Z-Score	Laboratory	Ref. Standard	Repeatability (r)	Group
		-1.91	within +/- 2.90	0.003	
		-1.32	within +/- 2.00	0.004	
		-9.85	within +/- 14.98	Confidence Interval	0.002

Precision Ratio		
	0.88	< 2.8

Current Round	Trend	Bias	Consistency	Rule 1	Rule 2	Rule 3	Rule 4
	NA	NA	NA	0	0	0	0

HISTORICAL PERFORMANCETest Number
Date(mm/yy)**FREQUENCY DISTRIBUTION**



PERFORMANCE SUMMARY

6L0354, 6L, Low Rank Coal, 65 Mesh (212um)
Material Source: SGS Kemmerer

Customer No: 037290
Servicio Geologico Colombiano
SGC - Bogota Laboratory CO

Issued Date: 20 Apr. 2026 07:40PM
Version 1

6L0354			Historical Performance										
			Average Value										
			Accuracy			Trend	Bias	Consistency	Rule Violations				
Z-Score	Percentile	n	Z-Score	Percentile					1	2	3	4	
Moisture, 60 Mesh	1.57	14	1	1.57	14	NA	NA	NA	0	0	0	0	
Ash, Dry	-0.03	96	1	0.03	96	NA	NA	NA	0	0	0	0	
Volatile, Dry ASTM	-0.73	36	1	0.73	36	NA	NA	NA	0	0	0	0	
Sulfur, S, Dry	-11.64	4	1	3.00	4	NA	NA	NA	1	0	0	0	
Calorific Value, Dry	0.50	57	1	0.50	57	NA	NA	NA	0	0	0	0	
Carbon, C, Dry	0.16	63	1	0.16	63	NA	NA	NA	0	0	0	0	
Hydrogen, H, Dry	-0.35	88	1	0.35	88	NA	NA	NA	0	0	0	0	
Nitrogen, N, Dry	-10.77	13	1	3.00	13	NA	NA	NA	1	0	0	0	
Mercury, Hg, Dry	-1.32	25	1	1.32	25	NA	NA	NA	0	0	0	0	

Percentiles

Percentiles range from 0 to 100.
Larger numbers indicate better performance.

Legend

A = Acceptable
M = Marginal
U = Unacceptable
n.a. = Not applicable

Indications that Process is Not in Control

Rule 1: A single point falls outside three-sigma control limits.
Rule 2: At least 2 out of 3 successive values fall on the same side of, and more than two-sigma away from, the central line.
Rule 3: At least 4 out of 5 successive values fall on the same side of, and more than one-sigma away from, the central line.
Rule 4: At least 8 successive values fall on the same side of the central line.



PERFORMANCE SUMMARY

6L0354, 6L, Low Rank Coal, 65 Mesh (212um)

Material Source: SGS Kemmerer

Customer No: 037290

Servicio Geologico Colombiano

SGC - Bogota Laboratory CO

Issued Date: 20 Apr. 2026 07:40PM

Version 1

END OF REPORT

**COVER PAGE****EQ0383**, EQ, Equilibrium Moisture of Coal - 4 Mesh (4.75 mm)**Material Source:** SGS East Chicago**Report Version:** Version 1

Customer No: 037290

Servicio Geologico Colombiano

SGC - Bogota Laboratory CO

Issued Date: 20 Apr. 2026 06:57PM

Version 1

Please find following your Final LQSi PTP Report (**Version 1**) for this round. We thank you for submitting your data on time, allowing LQSi to submit our Reports to PTP Projects in a timely manner. If you have any questions regarding this Report, please notify us immediately at lqsi@sgs.com with as much detail as possible.

This report was prepared and reviewed by authorized members of the LQSi Staff.

Sidney Clayborn

Laboratory Quality Services International

(www.LQSi.com)

LQSi Manager

SGS Minerals Services Division

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Direct Phone: +1-708-225-9121

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Email: Sidney.Clayborn@sgs.com**Ateeqbhai Vahora**

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Email: Ateeqbhai.vahora@sgs.com

The use of affiliates and/or subcontracting done in support of LQSi PTPs may include but is not limited to the following:

- Chemical analysis of samples for the purpose of determining homogeneity and suitability.
- Preparation and distribution of Geochemical Test Samples.

A Method Summary Report (MSR) for this Round is available in your Project library at www.lqsi.com.

Corrective Action Recommendations (CARs) associated with this Report are available in your Project library at www.lqsi.com and, if required, will be sent via email.

A Key Performance Indicator Report (KPI) is posted in your Project library at www.lqsi.com on or after the 6th of the month.

There are additional documents that may assist in your understanding of this report. These documents can be found under Public Library at our website www.lqsi.com.

Here is a list of some of the more pertinent documents

Document Number	Title
524	PTP Types
654	Confidentiality Integrity; English
701	User's Manual
831	Confidentiality Agreement
864	Training Manual

Document Number	Title
872	Basic Statistics 101
872	Statistics Mean
0872 Outlier	Outlier Test
0872 Outlier	Outlier Test (*xlsx)
873	Use of MSRs

We appreciate any comments that you may have about the LQSi SAMS2 system (e.g., data entry, registration, etc.)

STATISTICAL SUMMARY

EQ0383, EQ, Equilibrium Moisture of Coal - 4 Mesh (4.75 mm)

Material Source: SGS East Chicago

Report Version: Version 1

Customer No: 037290

Servicio Geologico Colombiano

SGC - Bogota Laboratory CO

Issued Date: 20 Apr. 2026 06:57PM

Version 1

PARAMETER

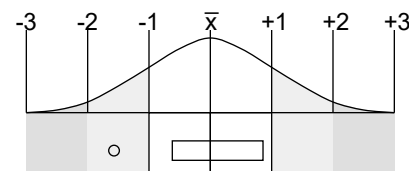
Moisture, EQ

Unit

% by wt

Lab Value	
Mean	SD
1.31	0.057

% Rel Diff	Z-Score	Precision Ratio
-20.12	-1.57	1.14



Group Value		
Mean	SD	n
1.64	0.210	6

**PARAMETER REPORT: Moisture, EQ % by wt****EQ0383**, EQ, Equilibrium Moisture of Coal - 4 Mesh (4.75 mm)**Reported Method:** ASTM D1412**Reported Instrument:** Cuarto termostático**Reported Ref. Material:** Other

Customer No: 037290

Servicio Geológico Colombiano

SGC - Bogota Laboratory CO

Issued Date: 20 Apr. 2026 06:57PM

Version 1

STATISTICS

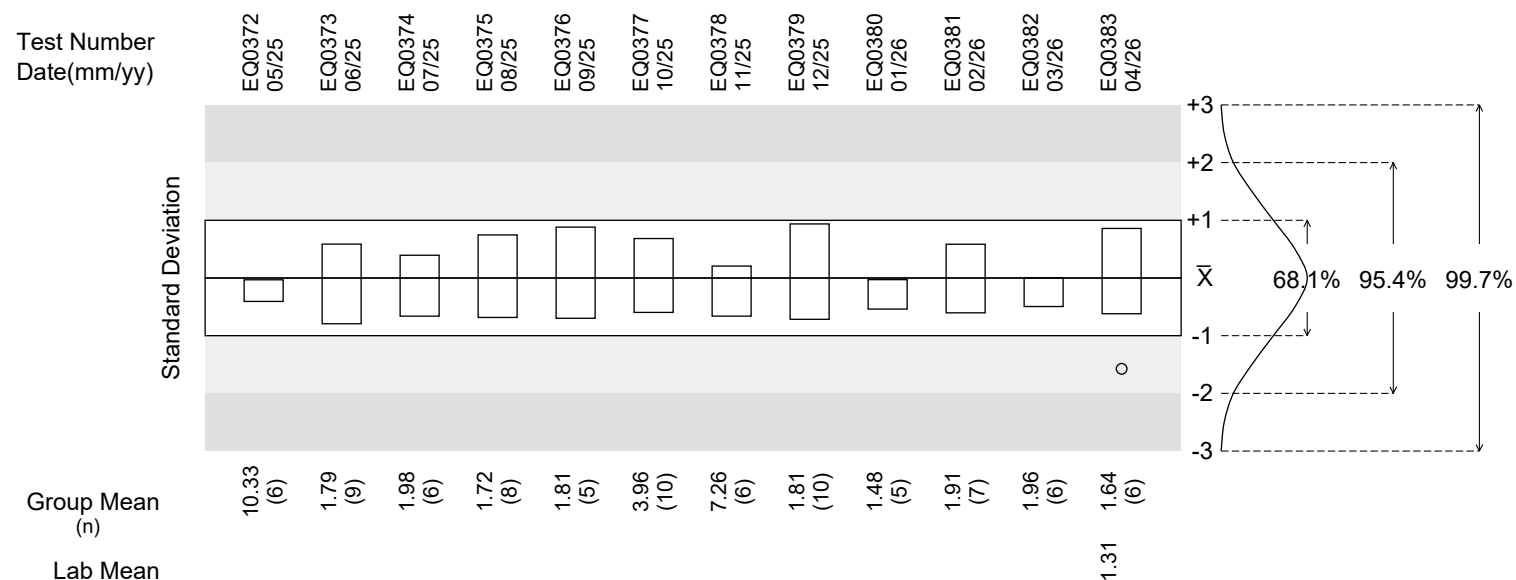
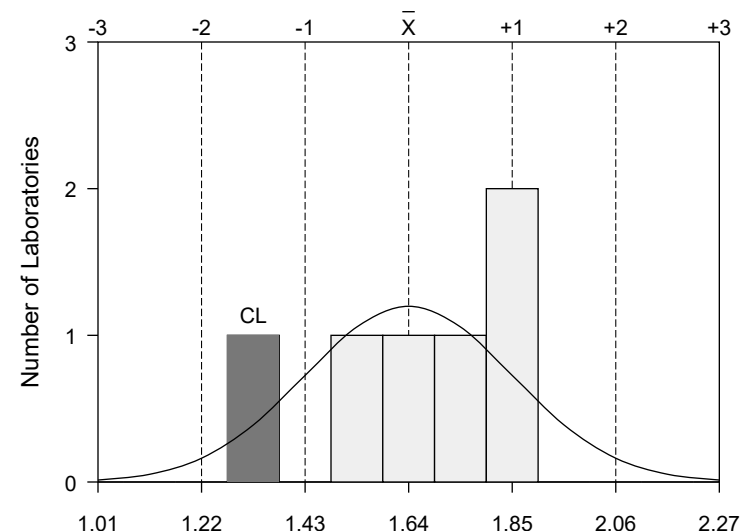
Lab Value	
Mean	SD
1.31	0.057

Group Value		
Mean	SD	n
1.64	0.210	6

Accuracy	Precision Estimates		Precision Factors	
	Laboratory	Ref. Standard		Group
	Mean Difference	within +/- 0.42	Repeatability (r)	0.140
	Z-Score	within +/- 2.00	Reproducibility (R)	0.595
Relative Difference(%)		within +/- 25.61	Confidence Interval	0.220

Precision Ratio	1.14	< 2.8
-----------------	------	-------

Current Round	Trend	Bias	Consistency	Rule 1	Rule 2	Rule 3	Rule 4
	NA	NA	NA	0	0	0	0

HISTORICAL PERFORMANCE**FREQUENCY DISTRIBUTION**



PERFORMANCE SUMMARY

EQ0383, EQ, Equilibrium Moisture of Coal - 4 Mesh (4.75 mm)
Material Source: SGS East Chicago

Customer No: 037290
Servicio Geologico Colombiano
SGC - Bogota Laboratory CO

Issued Date: 20 Apr. 2026 06:57PM
Version 1

Moisture, EQ	EQ0383		Historical Performance									
			Average Value									
	Z-Score	Percentile	n	Accuracy		Trend	Bias	Consistency	Rule Violations			
				Z-Score	Percentile				1	2	3	4
-1.57	17	1	1.57	17	NA	NA	NA	0	0	0	0	

Percentiles

Percentiles range from 0 to 100.
Larger numbers indicate better performance.

Legend

A = Acceptable
M = Marginal
U = Unacceptable
n.a. = Not applicable

Indications that Process is Not in Control

Rule 1: A single point falls outside three-sigma control limits.
Rule 2: At least 2 out of 3 successive values fall on the same side of, and more than two-sigma away from, the central line.
Rule 3: At least 4 out of 5 successive values fall on the same side of, and more than one-sigma away from, the central line.
Rule 4: At least 8 successive values fall on the same side of the central line.



PERFORMANCE SUMMARY

EQ0383, EQ, Equilibrium Moisture of Coal - 4 Mesh (4.75 mm)

Material Source: SGS East Chicago

Customer No: 037290

Servicio Geologico Colombiano

SGC - Bogota Laboratory CO

Issued Date: 20 Apr. 2026 06:57PM

Version 1

END OF REPORT

**COVER PAGE****HG0411**, HG, Hardgrove Grindability Index (HGI) - 4 Mesh (4.75mm)**Material Source:** SGS East Chicago**Report Version:** Version 1

Customer No: 037290

Servicio Geologico Colombiano

SGC - Bogota Laboratory CO

Issued Date: 27 Apr. 2026 08:11PM

Version 1

Please find following your Final LQSi PTP Report (**Version 1**) for this round. We thank you for submitting your data on time, allowing LQSi to submit our Reports to PTP Projects in a timely manner. If you have any questions regarding this Report, please notify us immediately at lqsi@sgs.com with as much detail as possible.

This report was prepared and reviewed by authorized members of the LQSi Staff.

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The use of affiliates and/or subcontracting done in support of LQSi PTPs may include but is not limited to the following:

- Chemical analysis of samples for the purpose of determining homogeneity and suitability.
- Preparation and distribution of Geochemical Test Samples.

A Method Summary Report (MSR) for this Round is available in your Project library at www.lqsi.com.

Corrective Action Recommendations (CARs) associated with this Report are available in your Project library at www.lqsi.com and, if required, will be sent via email.

A Key Performance Indicator Report (KPI) is posted in your Project library at www.lqsi.com on or after the 6th of the month.

There are additional documents that may assist in your understanding of this report. These documents can be found under Public Library at our website www.lqsi.com.

Here is a list of some of the more pertinent documents

Document Number	Title
524	PTP Types
654	Confidentiality Integrity; English
701	User's Manual
831	Confidentiality Agreement
864	Training Manual

Document Number	Title
872	Basic Statistics 101
872	Statistics Mean
0872 Outlier	Outlier Test
0872 Outlier	Outlier Test (*xlsx)
873	Use of MSRs

We appreciate any comments that you may have about the LQSi SAMS2 system (e.g., data entry, registration, etc.)



STATISTICAL SUMMARY

HG0411, HG, Hardgrove Grindability Index (HGI) - 4 Mesh (4.75mm)

Material Source: SGS East Chicago

Report Version: Version 1

Customer No: 037290

Servicio Geologico Colombiano

SGC - Bogota Laboratory CO

Issued Date: 27 Apr. 2026 08:11PM

Version 1

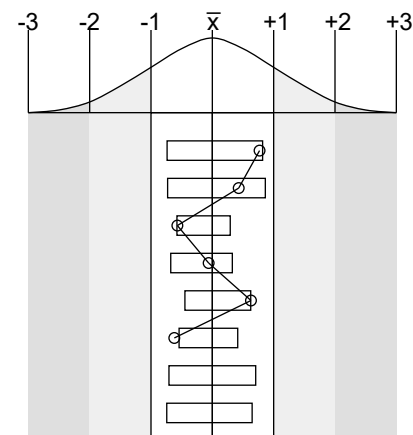
PARAMETER

Unit

HGI	index
Moisture, No. 16 X 30	% by wt
Ash, Dry	% by wt
Weight, - No. 200 Calc.	grams
Recovery, Total	grams
Loss	grams
Crushing Stages	number
Yield, 16 X 30	% by wt

Lab Value	
Mean	SD
84.4	0.07
0.62	0.014
6.43	0.057
10.36	0.021
49.87	0.021
0.14	0.021

% Rel Diff	Z-Score	Precision Ratio
1.33	0.77	0.15
7.73	0.43	1.26
-3.19	-0.57	1.62
-0.20	-0.06	0.29
0.08	0.63	1.08
-23.66	-0.62	1.10



Group Value		
Mean	SD	n
83.2	1.44	32
0.58	0.104	10
6.64	0.371	3
10.38	0.314	16
49.83	0.061	17
0.18	0.068	19
6.5	0.71	2
71.27	2.974	16

**PARAMETER REPORT: HGI index****HG0411**, HG, Hardgrove Grindability Index (HGI) - 4 Mesh (4.75mm)**Reported Method:** ASTM D409**Reported Instrument:** Molino HG Preiser**Reported Ref. Material:** Other

Customer No: 037290

Servicio Geologico Colombiano

SGC - Bogota Laboratory CO

Issued Date: 27 Apr. 2026 08:11PM

Version 1

STATISTICS

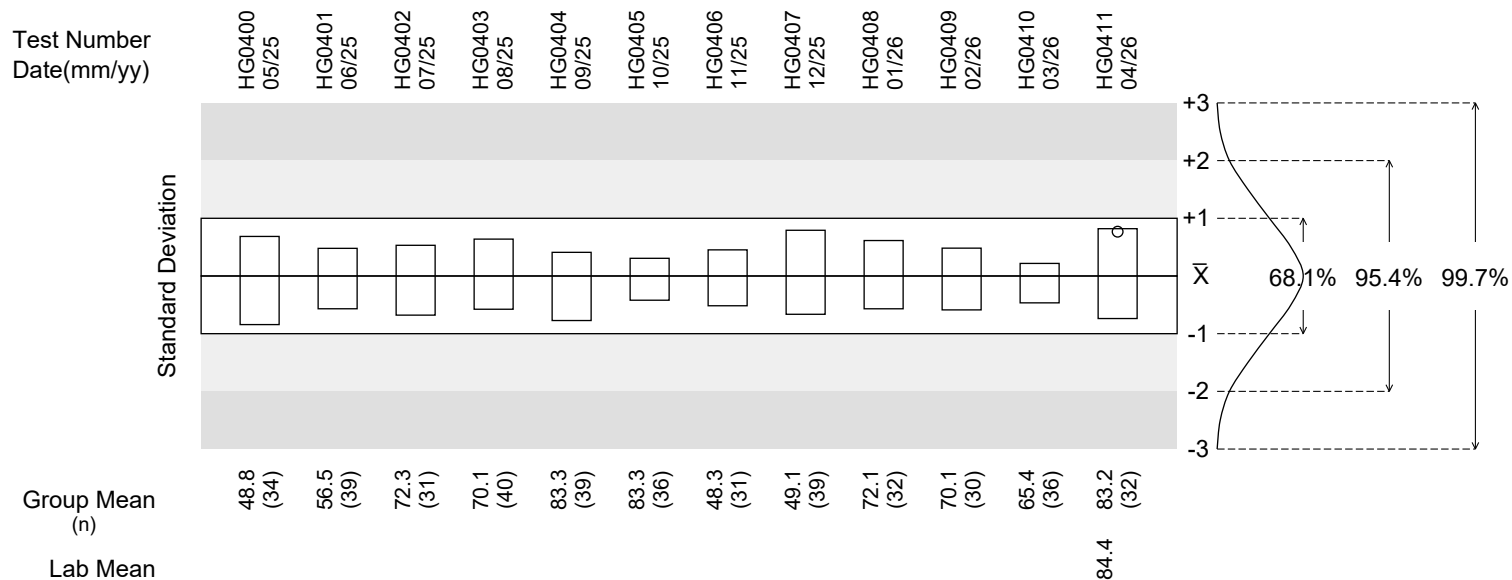
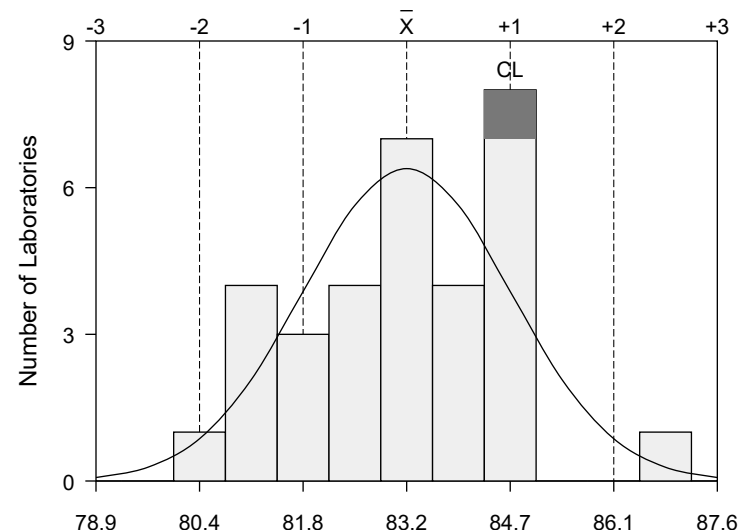
Lab Value	
Mean	SD
84.4	0.07

Group Value		
Mean	SD	n
83.2	1.44	32

Accuracy	Precision Estimates		Precision Factors	
	Laboratory	Ref. Standard		Group
	Mean Difference	within +/- 2.9	Repeatability (r)	1.283
	Z-Score	within +/- 2.00	Reproducibility (R)	4.146
Relative Difference(%)		within +/- 3.49	Confidence Interval	0.521

Precision Ratio	0.15	< 2.8
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Current Round	Trend	Bias	Consistency	Rule 1	Rule 2	Rule 3	Rule 4
	NA	NA	NA	0	0	0	0

HISTORICAL PERFORMANCE**FREQUENCY DISTRIBUTION**

**PARAMETER REPORT: Moisture, No. 16 X 30 % by wt****HG0411**, HG, Hardgrove Grindability Index (HGI) - 4 Mesh (4.75mm)**Reported Method:** ASTM D409**Reported Instrument:** Blue M**Reported Ref. Material:** Other

Customer No: 037290

Servicio Geologico Colombiano

SGC - Bogota Laboratory CO

Issued Date: 27 Apr. 2026 08:11PM

Version 1

STATISTICS

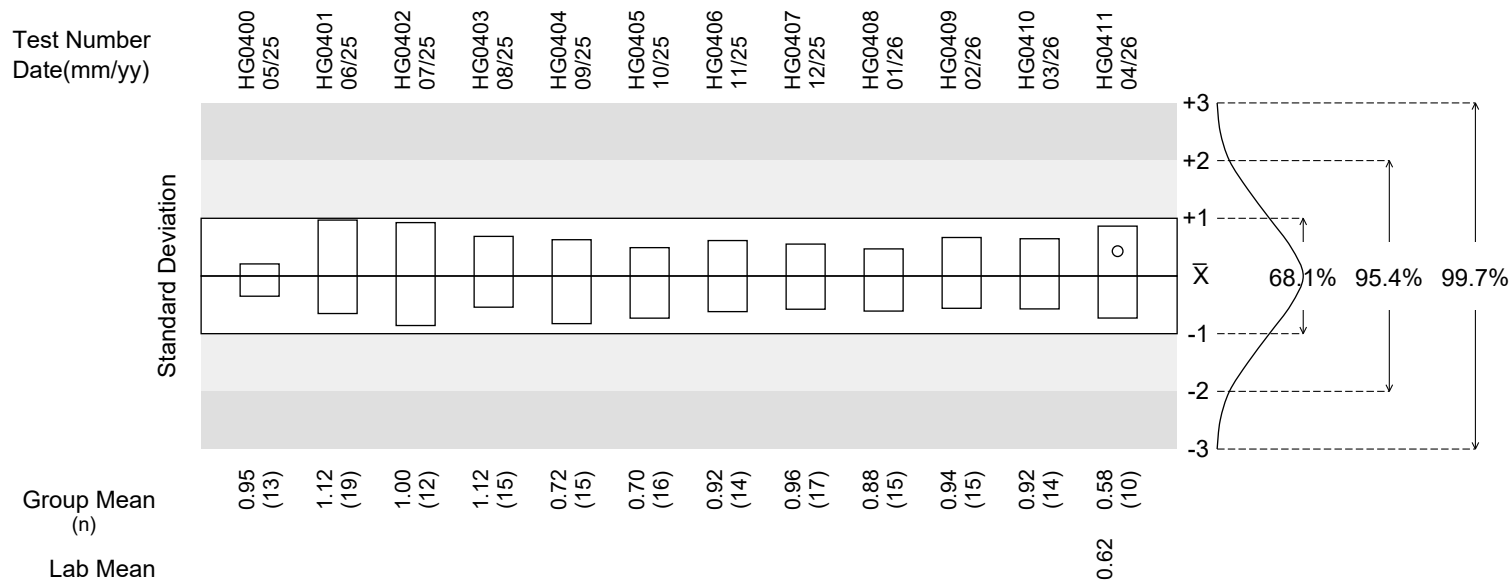
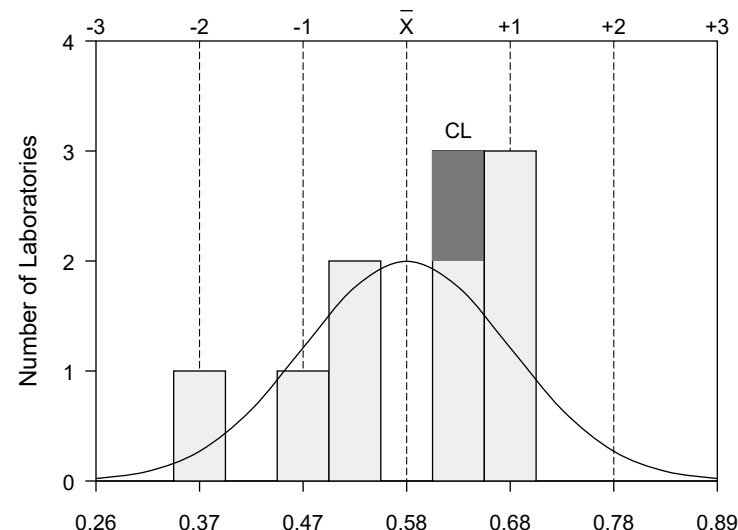
Lab Value	
Mean	SD
0.62	0.014

Group Value		
Mean	SD	n
0.58	0.104	10

Accuracy	Precision Estimates		Precision Factors	
	Laboratory	Ref. Standard		Group
	Mean Difference	within +/- 0.21	Repeatability (r)	0.031
	Z-Score	within +/- 2.00	Reproducibility (R)	0.291
Relative Difference(%)	7.73	within +/- 36.21	Confidence Interval	0.074

Precision Ratio	1.26	< 2.8
-----------------	------	-------

Current Round	Trend	Bias	Consistency	Rule 1	Rule 2	Rule 3	Rule 4
	NA	NA	NA	0	0	0	0

HISTORICAL PERFORMANCE**FREQUENCY DISTRIBUTION**

**PARAMETER REPORT: Ash, Dry % by wt****HG0411**, HG, Hardgrove Grindability Index (HGI) - 4 Mesh (4.75mm)**Reported Method:** ASTM D7582**Reported Instrument:** TGA Leco 601**Reported Ref. Material:** Other

Customer No: 037290

Servicio Geologico Colombiano

SGC - Bogota Laboratory CO

Issued Date: 27 Apr. 2026 08:11PM

Version 1

STATISTICS

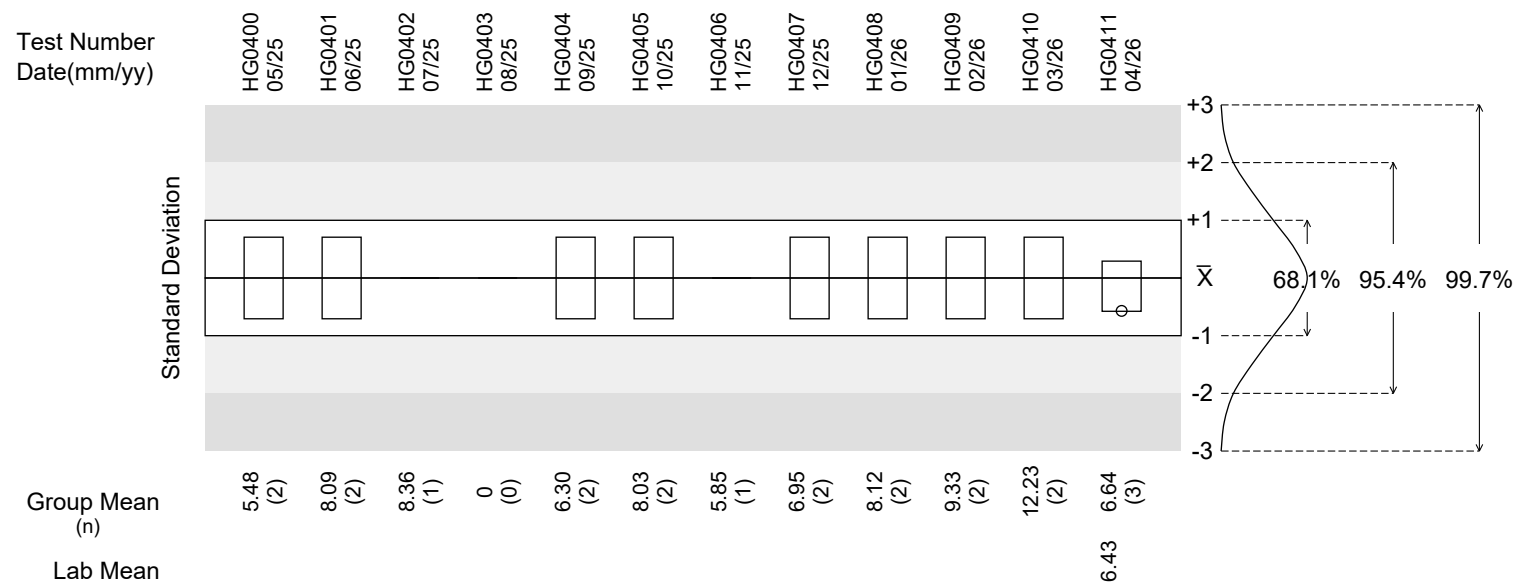
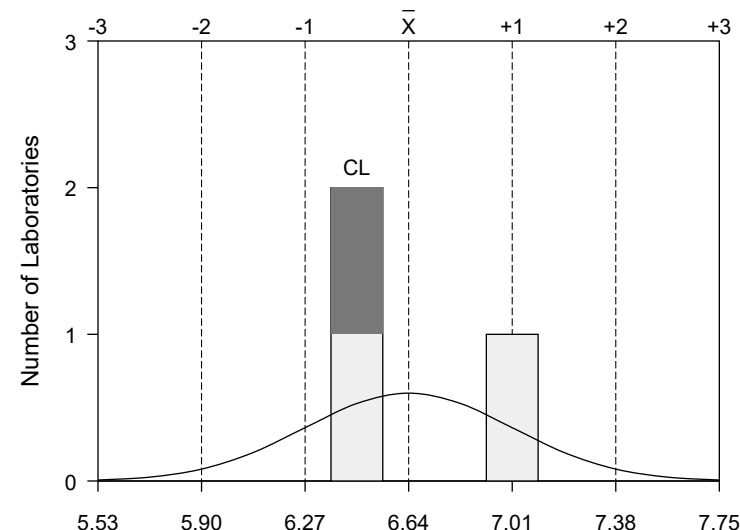
Lab Value	
Mean	SD
6.43	0.057

Group Value		
Mean	SD	n
6.64	0.371	3

Accuracy	Precision Estimates		Precision Factors	
	Laboratory	Ref. Standard		Group
	Mean Difference	within +/- 0.74	Repeatability (r)	0.098
	Z-Score	within +/- 2.00	Reproducibility (R)	1.041
Relative Difference(%)		within +/- 11.14	Confidence Interval	0.922

Precision Ratio	1.62	< 2.8
-----------------	------	-------

Current Round	Trend	Bias	Consistency	Rule 1	Rule 2	Rule 3	Rule 4
	NA	NA	NA	0	0	0	0

HISTORICAL PERFORMANCE**FREQUENCY DISTRIBUTION**

**PARAMETER REPORT: Weight, - No. 200 Calc. grams****HG0411**, HG, Hardgrove Grindability Index (HGI) - 4 Mesh (4.75mm)**Reported Method:** ASTM D409**Reported Instrument:** Ro- TAP taylor**Reported Ref. Material:** Other

Customer No: 037290

Servicio Geologico Colombiano

SGC - Bogota Laboratory CO

Issued Date: 27 Apr. 2026 08:11PM

Version 1

STATISTICS

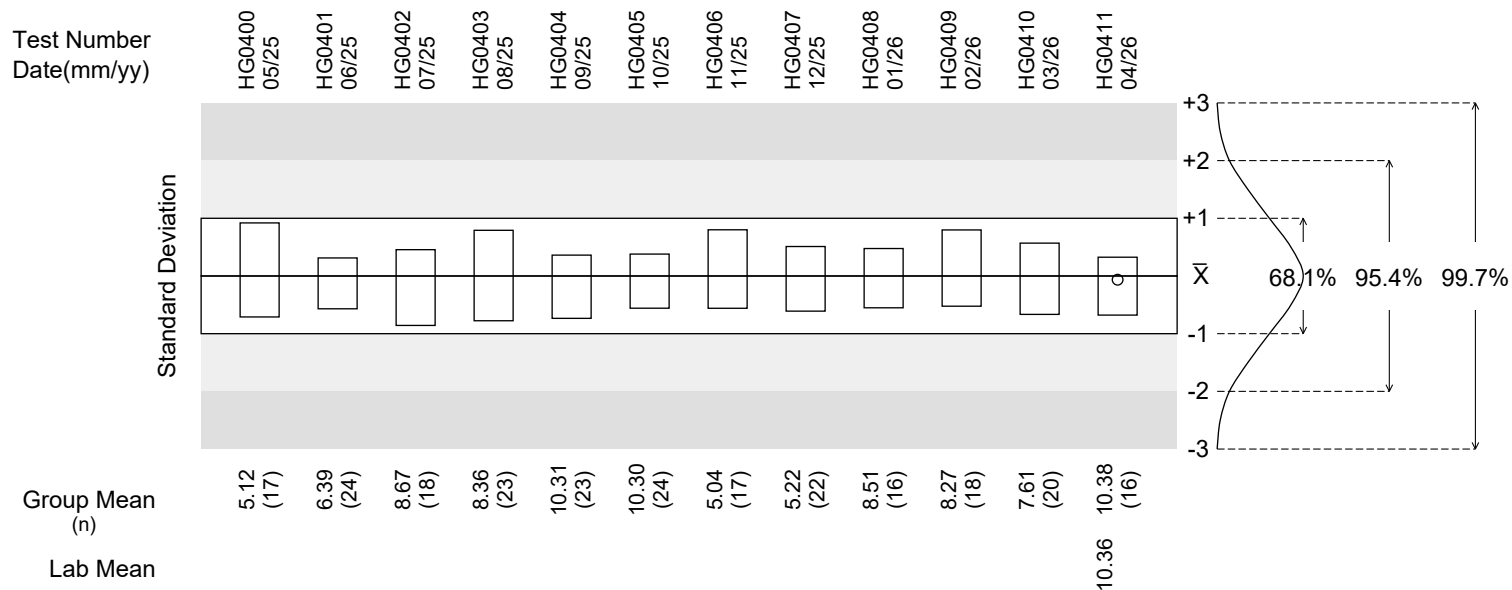
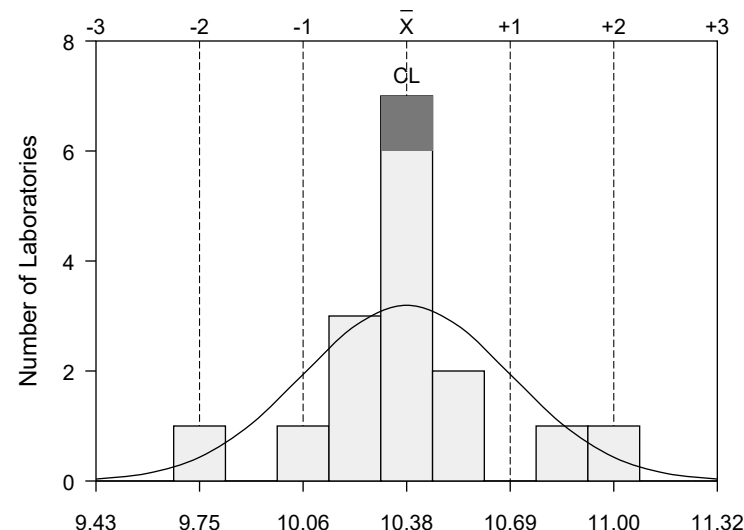
Lab Value	
Mean	SD
10.36	0.021

Group Value		
Mean	SD	n
10.38	0.314	16

Accuracy	Precision Estimates		Precision Factors	
	Laboratory	Ref. Standard		Group
	Mean Difference	within +/- 0.63	Repeatability (r)	0.207
	Z-Score	within +/- 2.00	Reproducibility (R)	0.891
Relative Difference(%)		within +/- 6.07	Confidence Interval	0.167

Precision Ratio	0.29	< 2.8
-----------------	------	-------

Current Round	Trend	Bias	Consistency	Rule 1	Rule 2	Rule 3	Rule 4
	NA	NA	NA	0	0	0	0

HISTORICAL PERFORMANCE**FREQUENCY DISTRIBUTION**

**PARAMETER REPORT: Recovery, Total grams****HG0411**, HG, Hardgrove Grindability Index (HGI) - 4 Mesh (4.75mm)**Reported Method:** ASTM D409**Reported Instrument:**--**Reported Ref. Material:** Other

Customer No: 037290

Servicio Geologico Colombiano

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Issued Date: 27 Apr. 2026 08:11PM

Version 1

STATISTICS

Lab Value	
Mean	SD
49.87	0.021

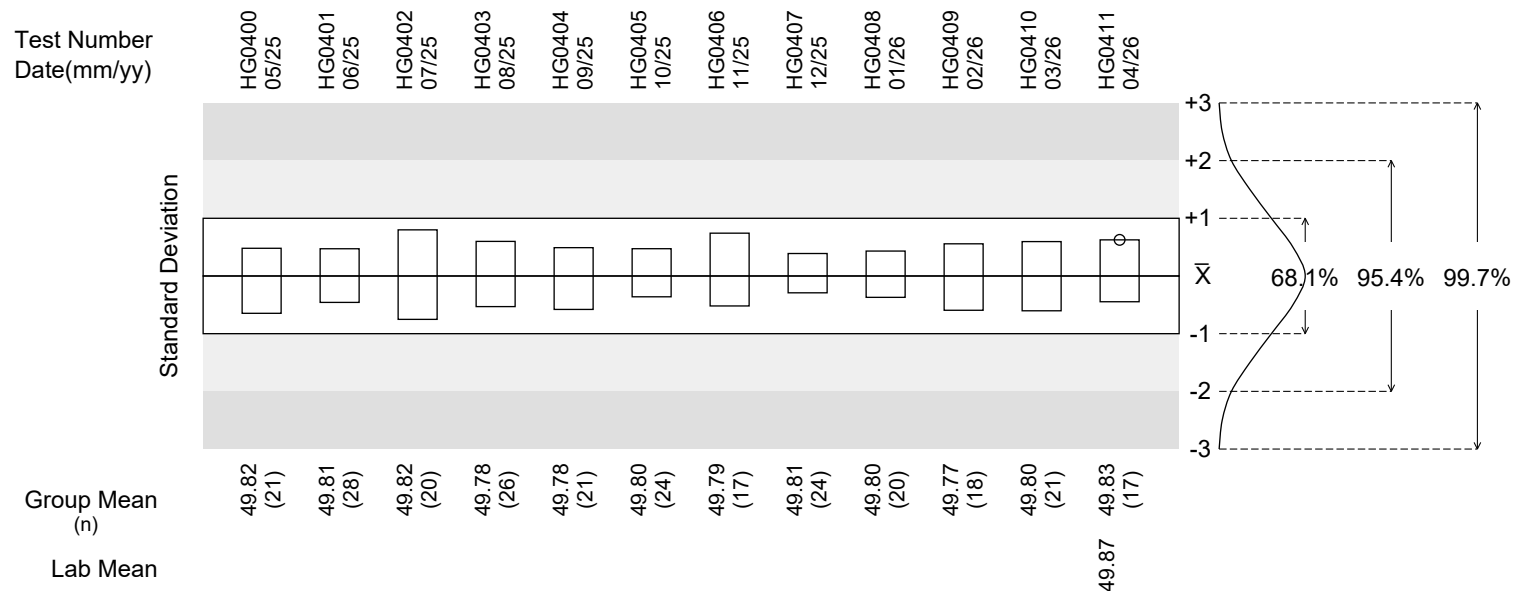
Group Value		
Mean	SD	n
49.83	0.061	17

Accuracy	Precision Estimates		Precision Factors	
	Laboratory	Ref. Standard		Group
	Mean Difference	within +/- 0.12	Repeatability (r)	0.055
	Z-Score	within +/- 2.00	Reproducibility (R)	0.174
Relative Difference(%)		within +/- 0.24	Confidence Interval	0.031

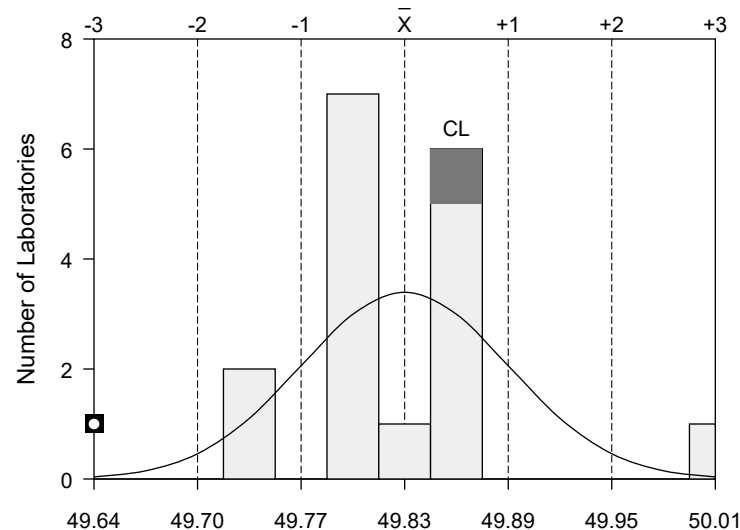
Precision Ratio	1.08	< 2.8
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Current Round	Trend	Bias	Consistency	Rule 1	Rule 2	Rule 3	Rule 4
	NA	NA	NA	0	0	0	0

HISTORICAL PERFORMANCE



FREQUENCY DISTRIBUTION



PARAMETER REPORT: Loss grams

HG0411, HG, Hardgrove Grindability Index (HGI) - 4 Mesh (4.75mm)

Reported Method: ASTM D409

Reported Instrument:--

Reported Ref. Material: Other

Customer No: 037290

Servicio Geologico Colombiano

SGC - Bogota Laboratory CO

Issued Date: 27 Apr. 2026 08:11PM

Version 1

STATISTICS

Lab Value	
Mean	SD
0.14	0.021

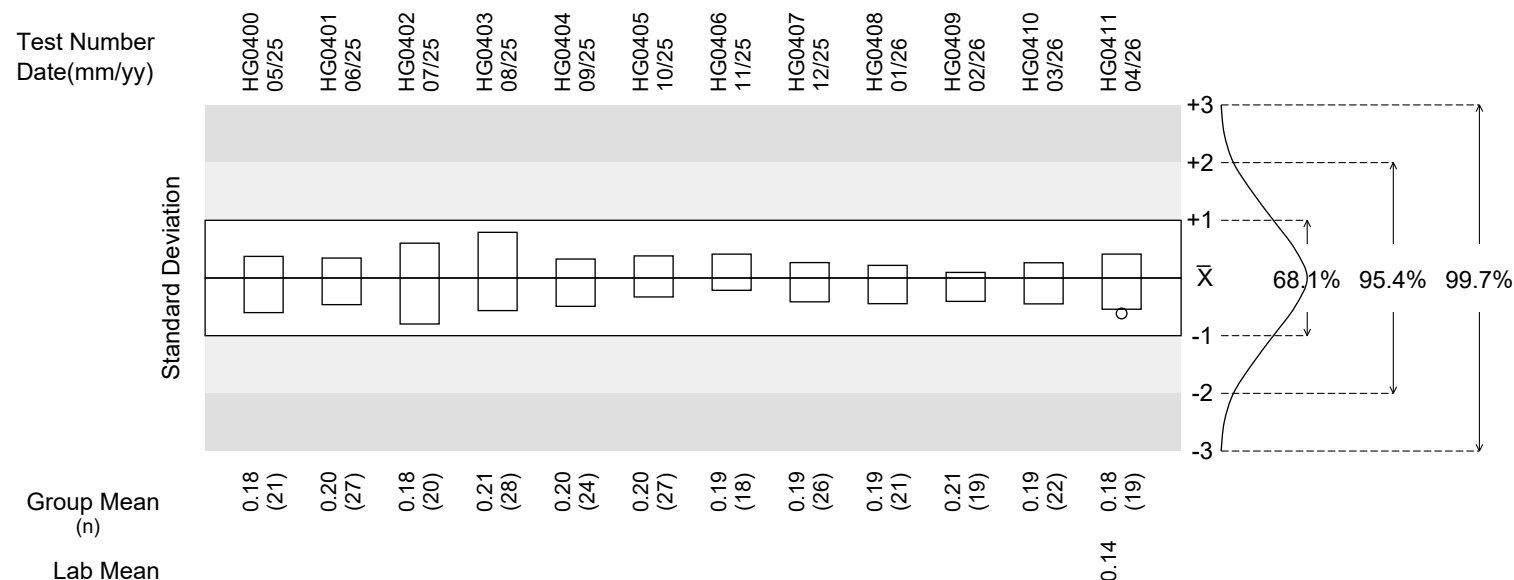
Group Value		
Mean	SD	n
0.18	0.068	19

Accuracy	Precision Estimates		Precision Factors	
	Laboratory	Ref. Standard		Group
	Mean Difference	within +/- 0.14	Repeatability (r)	0.054
	Z-Score	within +/- 2.00	Reproducibility (R)	0.194
Relative Difference(%)		within +/- 77.78	Confidence Interval	0.033

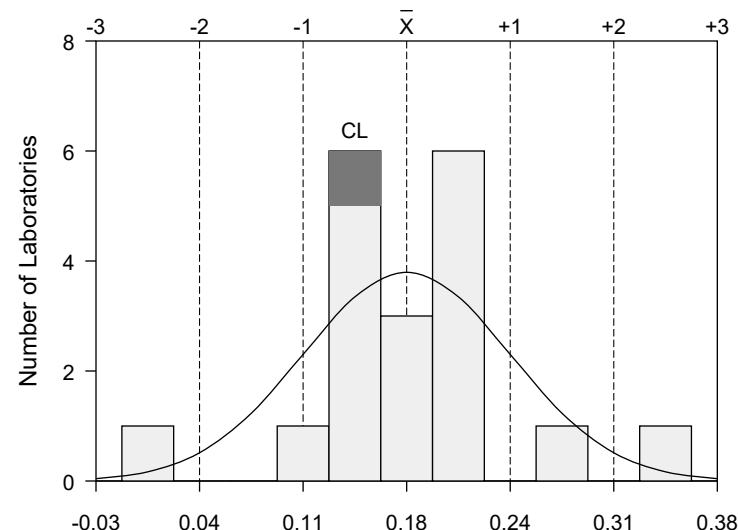
Precision Ratio	1.10	< 2.8
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Current Round	Trend	Bias	Consistency	Rule 1	Rule 2	Rule 3	Rule 4
	NA	NA	NA	0	0	0	0

HISTORICAL PERFORMANCE



FREQUENCY DISTRIBUTION



**PERFORMANCE SUMMARY**

HG0411, HG, Hardgrove Grindability Index (HGI) - 4 Mesh (4.75mm)
Material Source: SGS East Chicago

Customer No: 037290
Servicio Geologico Colombiano
SGC - Bogota Laboratory CO

Issued Date: 27 Apr. 2026 08:11PM
Version 1

	HG0411		Historical Performance									
			Average Value									
	Z-Score	Percentile	n	Accuracy		Trend	Bias	Consistency	Rule Violations			
				Z-Score	Percentile				1	2	3	4
HGI	0.77	53	1	0.77	53	NA	NA	NA	0	0	0	0
Moisture, No. 16 X 30	0.43	75	1	0.43	75	NA	NA	NA	0	0	0	0
Ash, Dry	-0.57	100	1	0.57	100	NA	NA	NA	0	0	0	0
Weight, - No. 200 Calc.	-0.06	88	1	0.06	88	NA	NA	NA	0	0	0	0
Recovery, Total	0.63	50	1	0.63	50	NA	NA	NA	0	0	0	0
Loss	-0.62	37	1	0.62	37	NA	NA	NA	0	0	0	0

Percentiles

Percentiles range from 0 to 100.
Larger numbers indicate better performance.

Legend

A = Acceptable
M = Marginal
U = Unacceptable
n.a. = Not applicable

Indications that Process is Not in Control

Rule 1: A single point falls outside three-sigma control limits.
Rule 2: At least 2 out of 3 successive values fall on the same side of, and more than two-sigma away from, the central line.
Rule 3: At least 4 out of 5 successive values fall on the same side of, and more than one-sigma away from, the central line.
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PERFORMANCE SUMMARY

HG0411, HG, Hardgrove Grindability Index (HGI) - 4 Mesh (4.75mm)

Material Source: SGS East Chicago

Customer No: 037290

Servicio Geologico Colombiano

SGC - Bogota Laboratory CO

Issued Date: 27 Apr. 2026 08:11PM

Version 1

END OF REPORT

**COVER PAGE**

TE0101, TE, Trace Elements in Coal - 65 Mesh (212um)
Material Source: Not Disclosed
Report Version: Version 1

Customer No: 037290
Servicio Geologico Colombiano
SGC - Bogota Laboratory CO

Issued Date: 28 May. 2026 05:00PM
Version 1

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This report was prepared and reviewed by authorized members of the LQSi Staff.

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654	Confidentiality Integrity; English
701	User's Manual
831	Confidentiality Agreement
864	Training Manual

Document Number	Title
872	Basic Statistics 101
872	Statistics Mean
0872 Outlier	Outlier Test
0872 Outlier	Outlier Test (*.xlsx)
873	Use of MSRs

We appreciate any comments that you may have about the LQSi SAMS2 system (e.g., data entry, registration, etc.)



STATISTICAL SUMMARY

TE0101, TE, Trace Elements in Coal - 65 Mesh (212um)

Material Source: Not Disclosed

Report Version: Version 1

Customer No: 037290

Servicio Geologico Colombiano

SGC - Bogota Laboratory CO

Issued Date: 28 May. 2026 05:00PM

Version 1

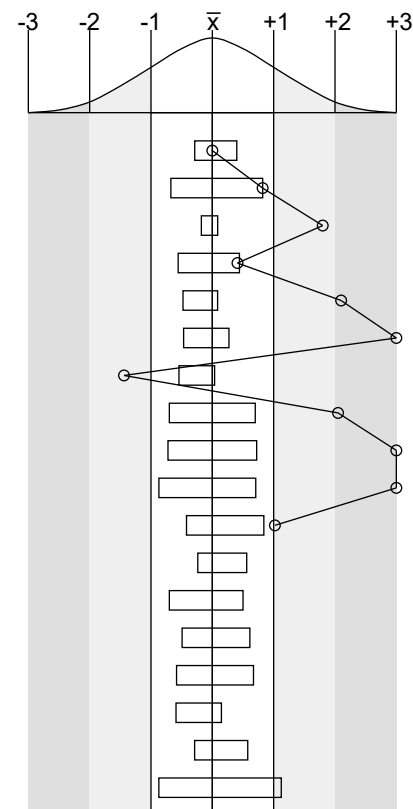
PARAMETER

Unit

PARAMETER	Unit
Arsenic, As, Dry	mg/kg
Beryllium, Be, Dry	mg/kg
Chromium, Cr, Dry	mg/kg
Cobalt, Co, Dry	mg/kg
Copper, Cu, Dry	mg/kg
Lead, Pb, Dry	mg/kg
Lithium, Li, Dry	mg/kg
Nickel, Ni, Dry	mg/kg
Strontium, Sr, Dry	mg/kg
Vanadium, V, Dry	mg/kg
Zinc, Zn, Dry	mg/kg
Antimony, Sb, Dry	mg/kg
Cadmium, Cd, Dry	mg/kg
Mercury, Hg, Dry	mg/kg
Molybdenum, Mo, Dry	mg/kg
Selenium, Se, Dry	mg/kg
Tin, Sn, Dry	mg/kg
Boron, B, Dry	mg/kg

Lab Value	
Mean	SD
1.09	0.028
0.70	0.021
13.79	0.113
2.19	0.028
20.41	0.177
10.80	0.474
14.82	0.438
10.54	0.064
104.09	1.379
56.34	1.153
23.79	0.651

% Rel Diff	Z-Score	Precision Ratio
-0.08	0.00	2.05
13.93	0.82	1.22
24.82	1.80	1.84
5.49	0.41	0.71
41.11	2.10	2.43
58.70	5.99	6.43
-8.54	-1.44	11.47
27.69	2.05	0.59
30.20	290.96	11.60
26.69	3.00	12.97
17.57	1.02	2.18



Group Value		
Mean	SD	n
1.09	0.456	11
0.61	0.104	9
11.05	1.523	9
2.08	0.280	9
14.46	2.826	8
6.80	0.667	7
16.20	0.963	5
8.25	1.114	10
79.95	0.083	4
44.47	3.951	8
20.24	3.488	8
0.71	0.144	6
0.21	0.050	9
0.0504	0.01086	8
1.69	0.285	8
0.28	0.014	5
2.31	0.121	3
37.25	2.579	6

**PARAMETER REPORT: Arsenic, As, Dry mg/kg****TE0101**, TE, Trace Elements in Coal - 65 Mesh (212um)**Reported Method:** In House**Reported Instrument:** Plasma Quant Analytik Jena**Reported Ref. Material:** Other

Customer No: 037290

Servicio Geologico Colombiano

SGC - Bogota Laboratory CO

Issued Date: 28 May. 2026 05:00PM

Version 1

STATISTICS

Lab Value	
Mean	SD
1.09	0.028

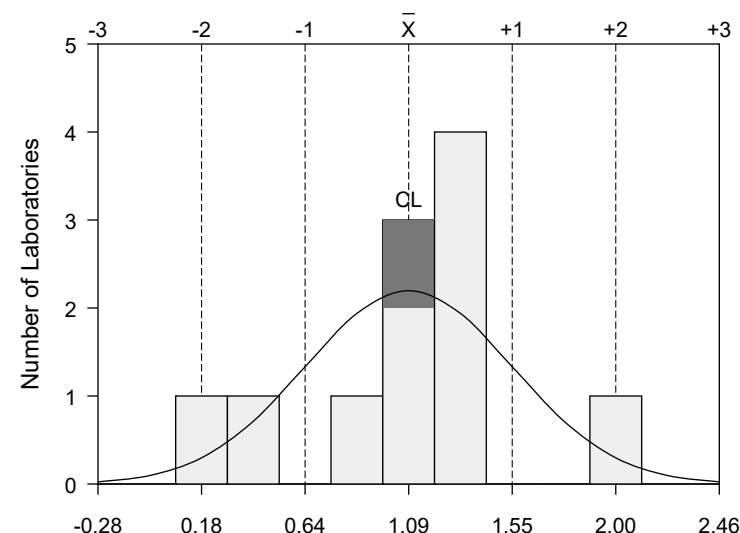
Group Value		
Mean	SD	n
1.09	0.456	11

Accuracy	Precision Estimates		Precision Factors	
	Laboratory	Ref. Standard		Group
	Mean Difference	within +/- 0.91	Repeatability (r)	0.039
	Z-Score	within +/- 2.00	Reproducibility (R)	1.276
Relative Difference(%)		within +/- 83.49	Confidence Interval	0.306
	-0.08			

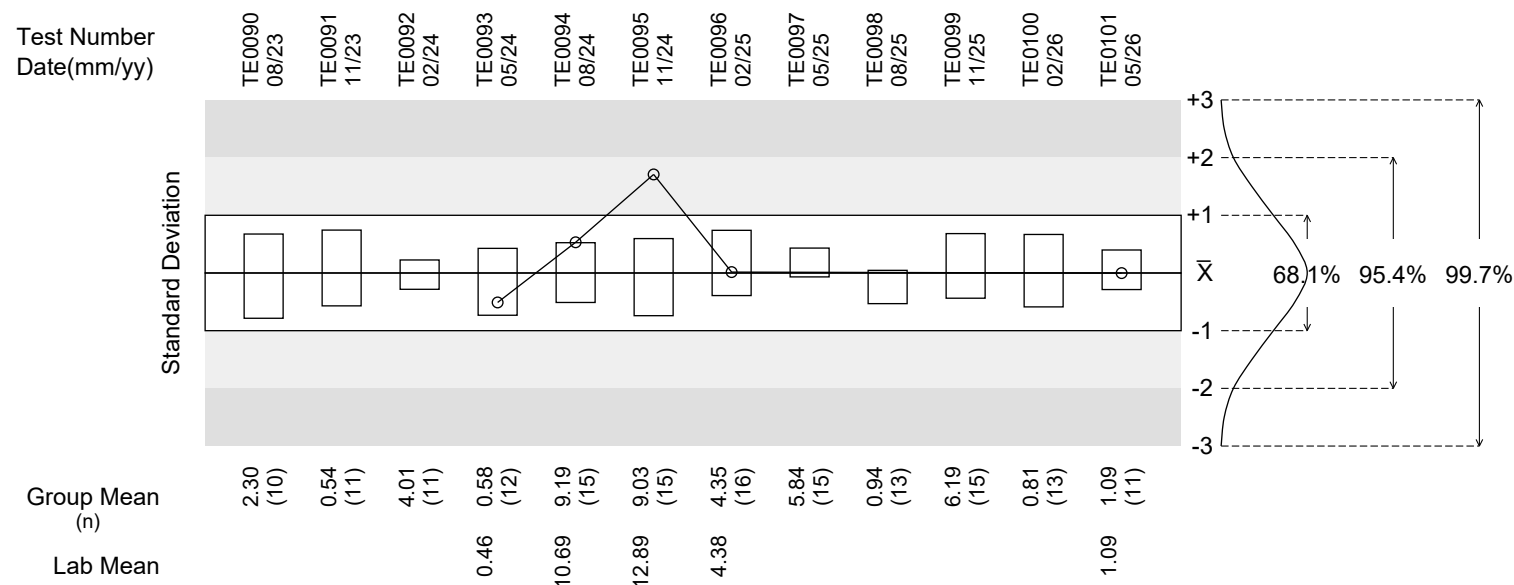
Precision Ratio		
	2.05	< 2.8

Current Round	Trend	Bias	Consistency	Rule 1	Rule 2	Rule 3	Rule 4
	A	A	A	0	0	0	0

FREQUENCY DISTRIBUTION



HISTORICAL PERFORMANCE



**PARAMETER REPORT: Beryllium, Be, Dry mg/kg****TE0101**, TE, Trace Elements in Coal - 65 Mesh (212um)**Reported Method:** In House**Reported Instrument:** Plasma Quant Analytik Jena**Reported Ref. Material:** Other

Customer No: 037290

Servicio Geologico Colombiano

SGC - Bogota Laboratory CO

Issued Date: 28 May. 2026 05:00PM

Version 1

STATISTICS

Lab Value	
Mean	SD
0.70	0.021

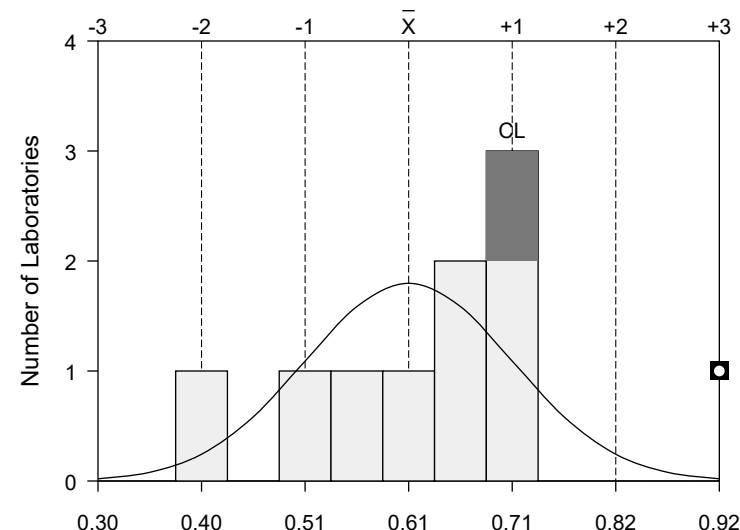
Group Value		
Mean	SD	n
0.61	0.104	9

Accuracy	Precision Estimates		Precision Factors	
	Laboratory	Ref. Standard		Group
	Mean Difference	within +/- 0.21	Repeatability (r)	0.048
	Z-Score	within +/- 2.00	Reproducibility (R)	0.292
Relative Difference(%)		within +/- 34.43	Confidence Interval	0.080

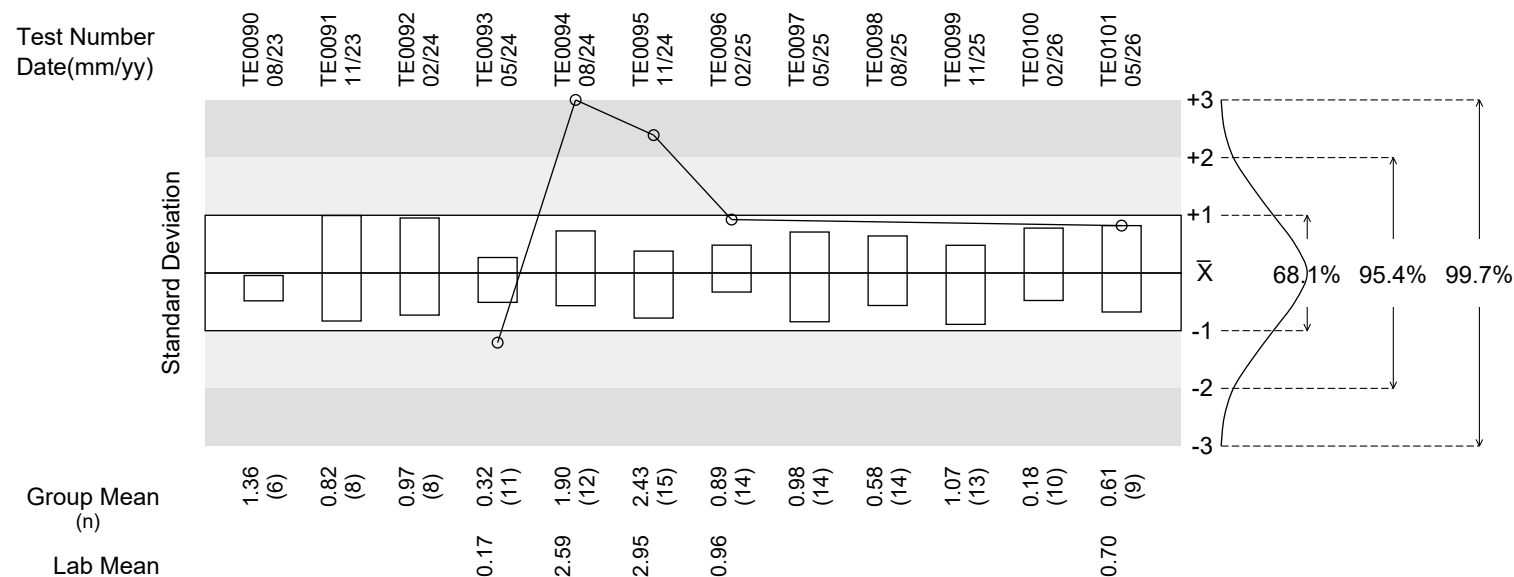
Precision Ratio		
	1.22	< 2.8

Current Round	Trend	Bias	Consistency	Rule 1	Rule 2	Rule 3	Rule 4
	A	U	U	0	0	0	0

FREQUENCY DISTRIBUTION



HISTORICAL PERFORMANCE



**PARAMETER REPORT: Chromium, Cr, Dry mg/kg****TE0101**, TE, Trace Elements in Coal - 65 Mesh (212um)**Reported Method:** In House**Reported Instrument:** Plasma Quant Analytik Jena**Reported Ref. Material:** Other

Customer No: 037290

Servicio Geologico Colombiano

SGC - Bogota Laboratory CO

Issued Date: 28 May. 2026 05:00PM

Version 1

STATISTICS

Lab Value	
Mean	SD
13.79	0.113

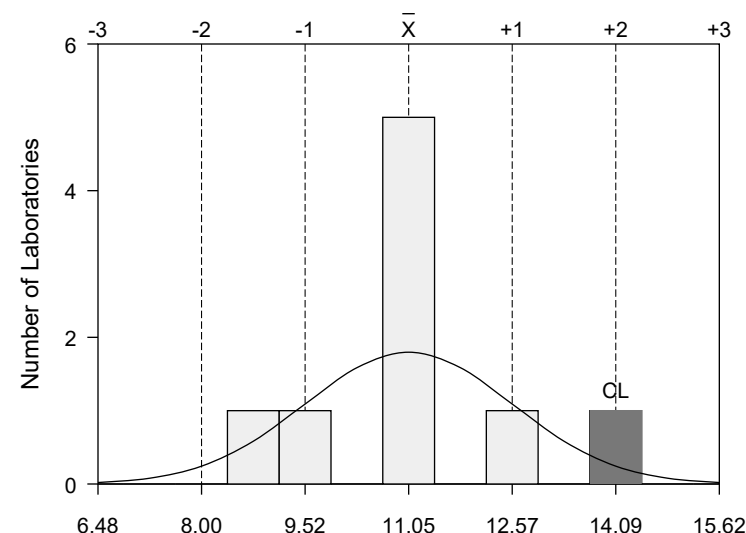
Group Value		
Mean	SD	n
11.05	1.523	9

Accuracy	Precision Estimates		Precision Factors	
	Laboratory	Ref. Standard		Group
	Mean Difference	within +/- 3.05	Repeatability (r)	0.172
	Z-Score	within +/- 2.00	Reproducibility (R)	4.266
Relative Difference(%)		within +/- 27.60	Confidence Interval	1.171

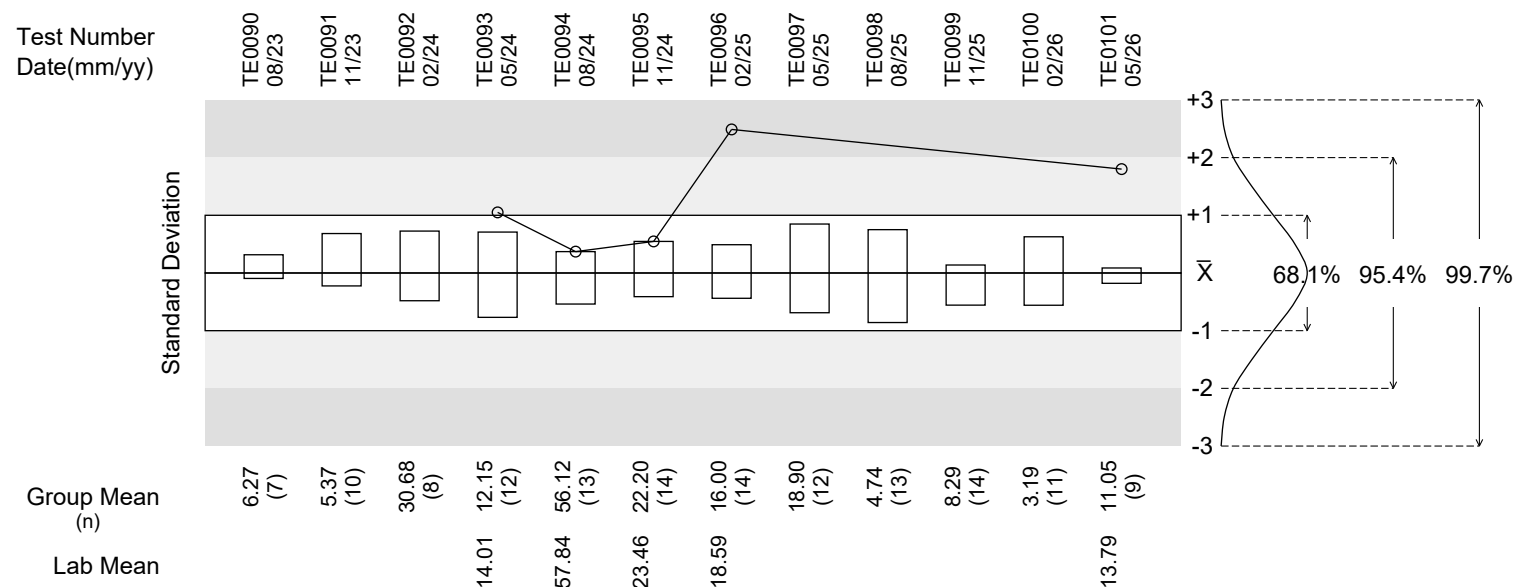
Precision Ratio	1.84	< 2.8
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Current Round	Trend	Bias	Consistency	Rule 1	Rule 2	Rule 3	Rule 4
	A	U	M	0	0	0	0

FREQUENCY DISTRIBUTION



HISTORICAL PERFORMANCE



**PARAMETER REPORT: Cobalt, Co, Dry mg/kg****TE0101**, TE, Trace Elements in Coal - 65 Mesh (212um)**Reported Method:** In House**Reported Instrument:** Plasma Quant Analytik Jena**Reported Ref. Material:** Other

Customer No: 037290

Servicio Geologico Colombiano

SGC - Bogota Laboratory CO

Issued Date: 28 May. 2026 05:00PM

Version 1

STATISTICS

Lab Value	
Mean	SD
2.19	0.028

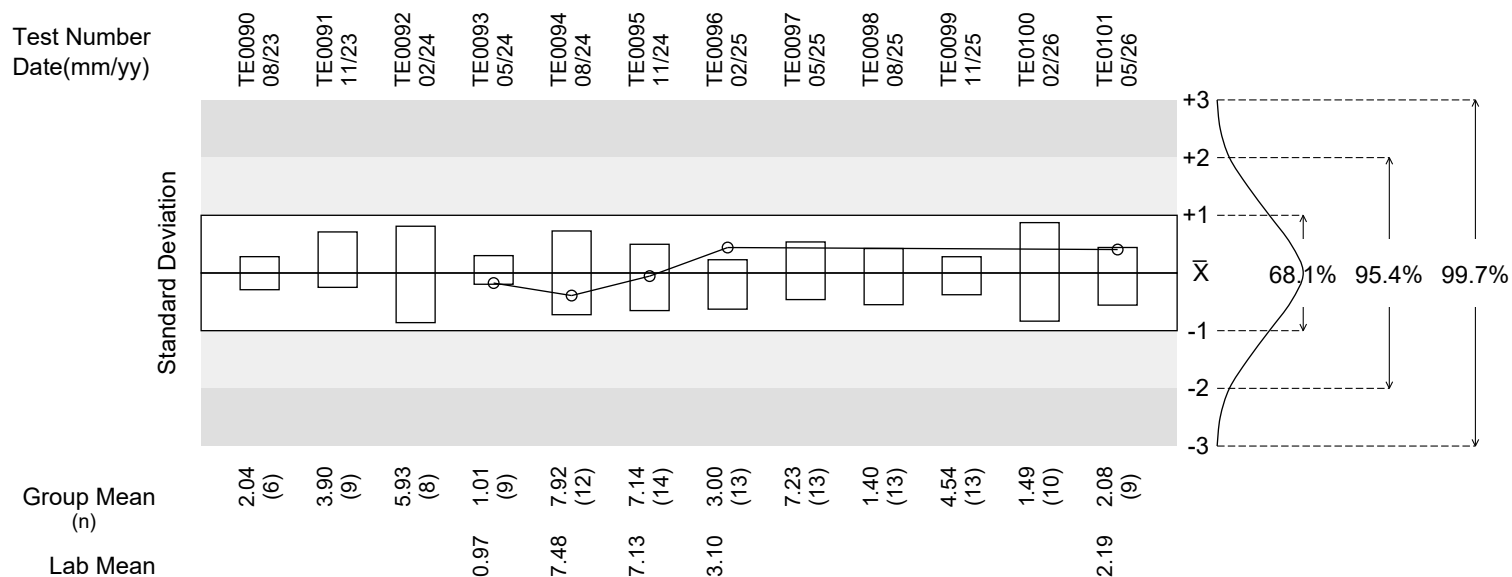
Group Value		
Mean	SD	n
2.08	0.280	9

Accuracy	Precision Estimates		Precision Factors	
	Laboratory	Ref. Standard		Group
	Mean Difference	within +/- 0.56	Repeatability (r)	0.111
	Z-Score	within +/- 2.00	Reproducibility (R)	0.789
Relative Difference(%)		within +/- 26.92	Confidence Interval	0.215

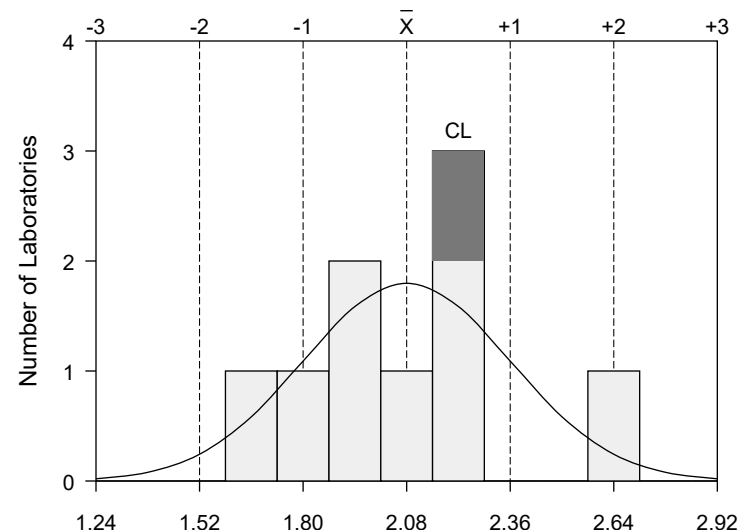
Precision Ratio	
0.71	< 2.8

Current Round	Trend	Bias	Consistency	Rule 1	Rule 2	Rule 3	Rule 4
	A	A	A	0	0	0	0

HISTORICAL PERFORMANCE



FREQUENCY DISTRIBUTION



**PARAMETER REPORT: Copper, Cu, Dry mg/kg****TE0101**, TE, Trace Elements in Coal - 65 Mesh (212um)**Reported Method:** In House**Reported Instrument:** Plasma Quant Analytik Jena**Reported Ref. Material:** Other

Customer No: 037290

Servicio Geologico Colombiano

SGC - Bogota Laboratory CO

Issued Date: 28 May. 2026 05:00PM

Version 1

STATISTICS

Lab Value	
Mean	SD
20.41	0.177

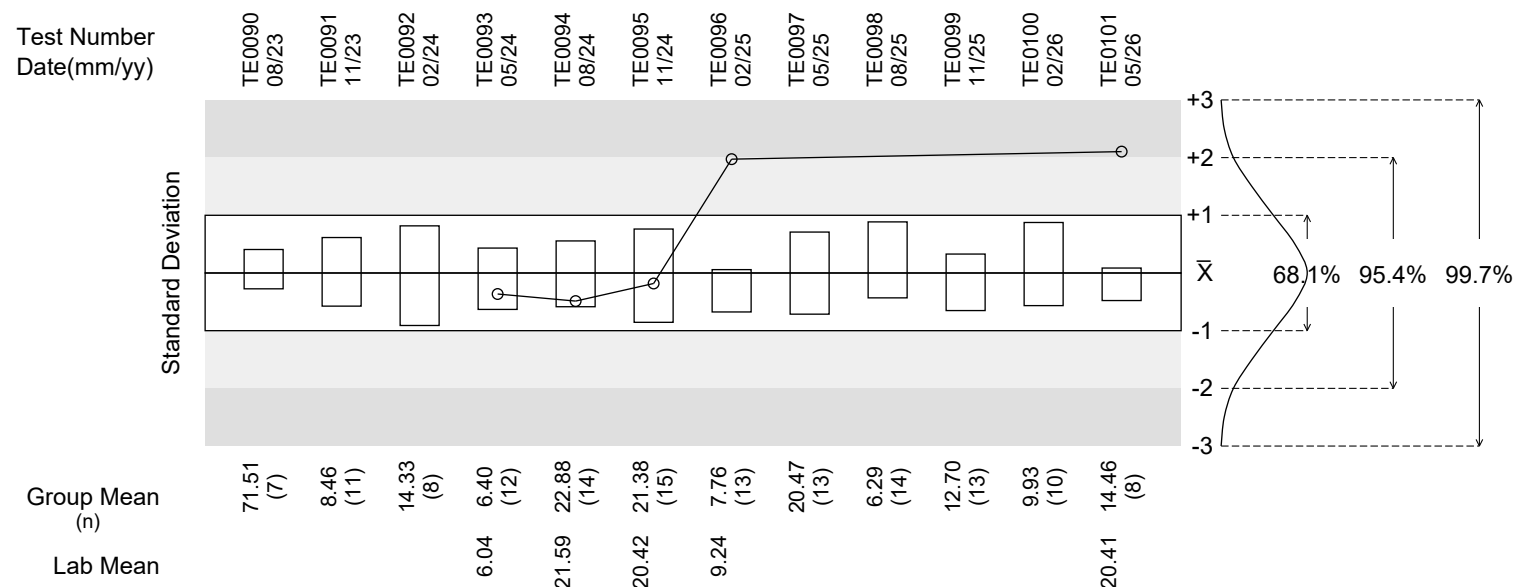
Group Value		
Mean	SD	n
14.46	2.826	8

Accuracy	Precision Estimates		Precision Factors	
	Laboratory	Ref. Standard		Group
	Mean Difference	5.95	Repeatability (r)	0.204
	Z-Score	2.10	Reproducibility (R)	7.913
Relative Difference(%)		41.11	Confidence Interval	2.363

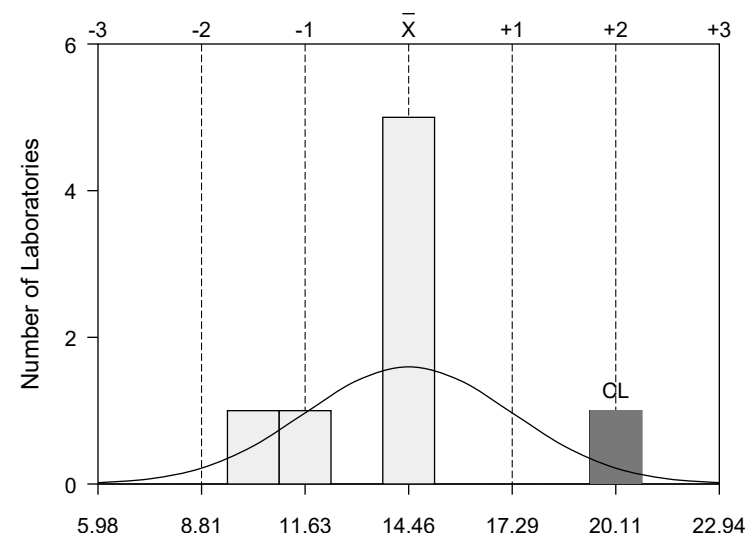
Precision Ratio	2.43	< 2.8
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Current Round	Trend	Bias	Consistency	Rule 1	Rule 2	Rule 3	Rule 4
	A	A	A	0	0	0	0

HISTORICAL PERFORMANCE



FREQUENCY DISTRIBUTION



PARAMETER REPORT: Lead, Pb, Dry mg/kg

TE0101, TE, Trace Elements in Coal - 65 Mesh (212um)

Reported Method: In House

Reported Instrument: Plasma Quant Analytik Jena

Reported Ref. Material: Other

Customer No: 037290

Servicio Geologico Colombiano

SGC - Bogota Laboratory CO

Issued Date: 28 May. 2026 05:00PM

Version 1

STATISTICS

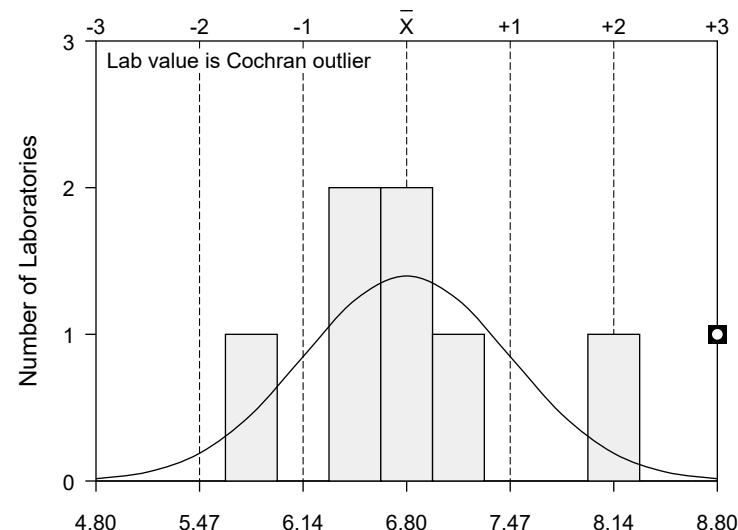
Lab Value		Group Value		
Mean	SD	Mean	SD	n
10.80	0.474	6.80	0.667	7

Accuracy		Precision Estimates		Precision Factors	
Mean Difference	Z-Score	Laboratory	Ref. Standard	Repeatability (r)	Group
		3.99	within +/- 1.33	0.206	
		5.99	within +/- 2.00	1.872	
Relative Difference(%)		58.70	within +/- 19.56	Confidence Interval	0.617

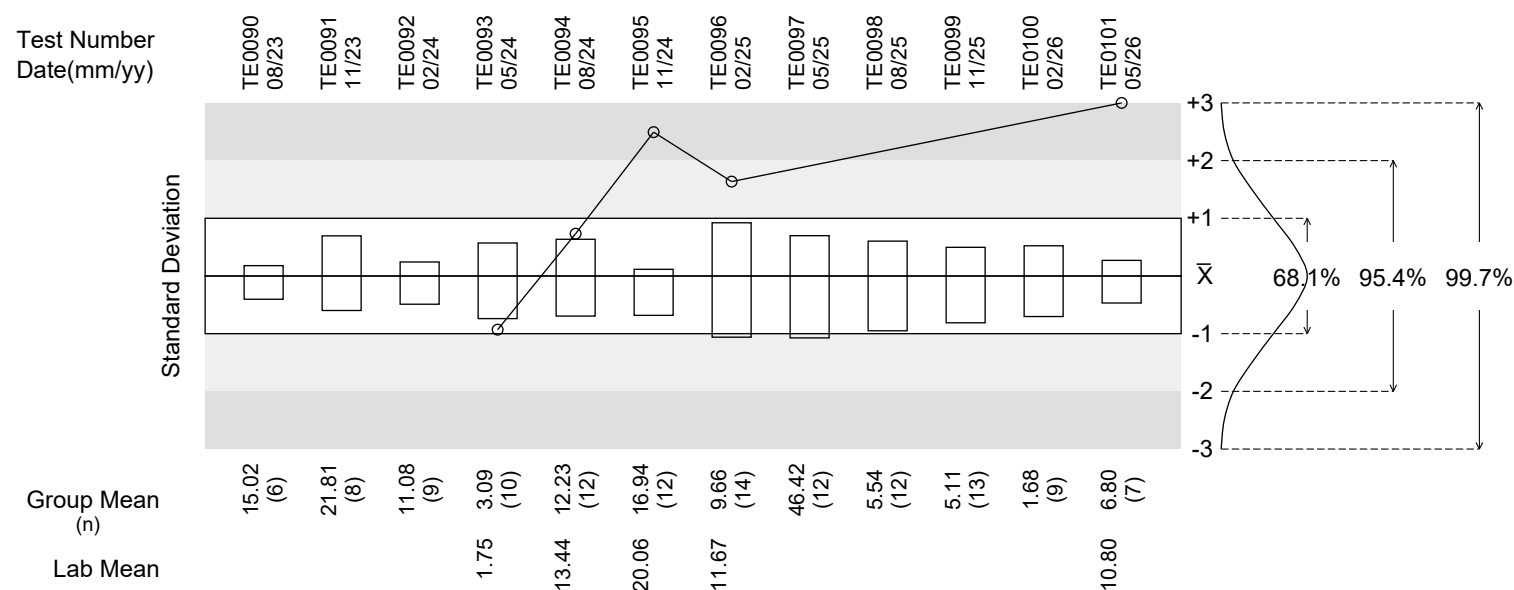
Precision Ratio		
	6.43	< 2.8

Current Round	Trend	Bias	Consistency	Rule 1	Rule 2	Rule 3	Rule 4
	A	U	U	1	1	0	0

FREQUENCY DISTRIBUTION



HISTORICAL PERFORMANCE



**PARAMETER REPORT: Lithium, Li, Dry mg/kg****TE0101**, TE, Trace Elements in Coal - 65 Mesh (212um)**Reported Method:** In House**Reported Instrument:** Plasma Quant Analytik Jena**Reported Ref. Material:** Other

Customer No: 037290

Servicio Geologico Colombiano

SGC - Bogota Laboratory CO

Issued Date: 28 May. 2026 05:00PM

Version 1

STATISTICS

Lab Value	
Mean	SD
14.82	0.438

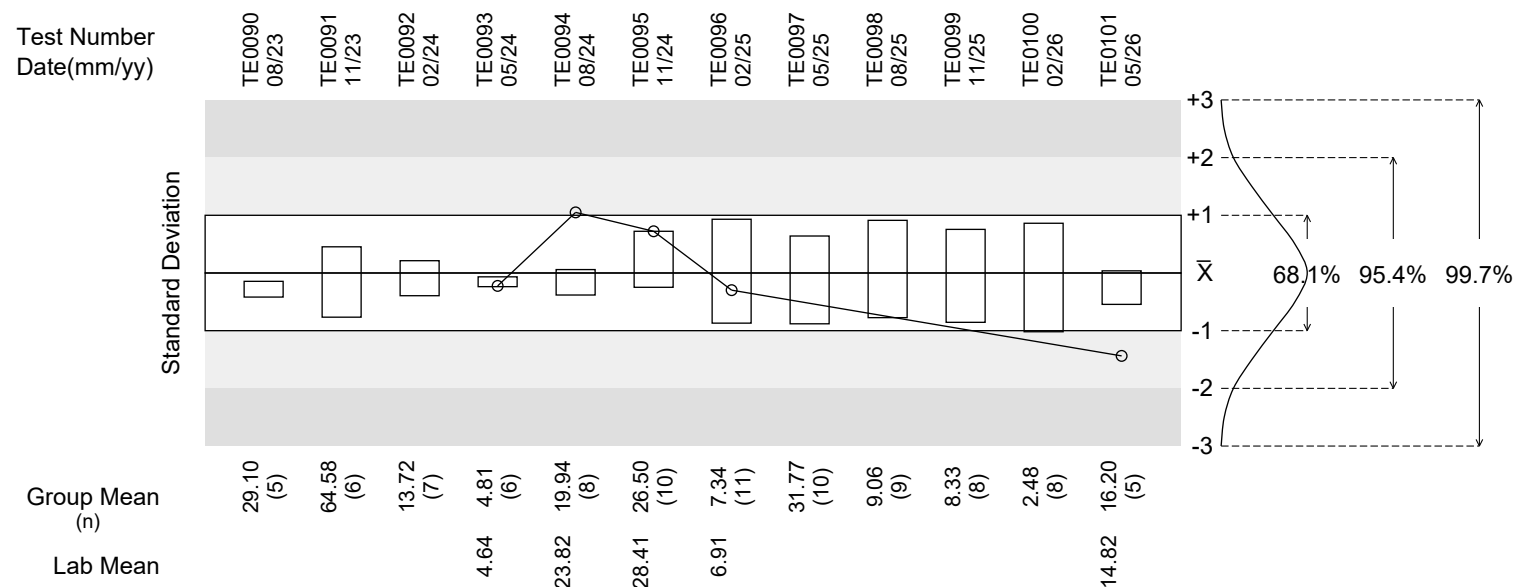
Group Value		
Mean	SD	n
16.20	0.963	5

Accuracy	Precision Estimates		Precision Factors	
	Laboratory	Ref. Standard		Group
	Mean Difference	within +/- 1.93	Repeatability (r)	0.107
	Z-Score	within +/- 2.00	Reproducibility (R)	2.697
Relative Difference(%)		within +/- 11.91	Confidence Interval	1.195

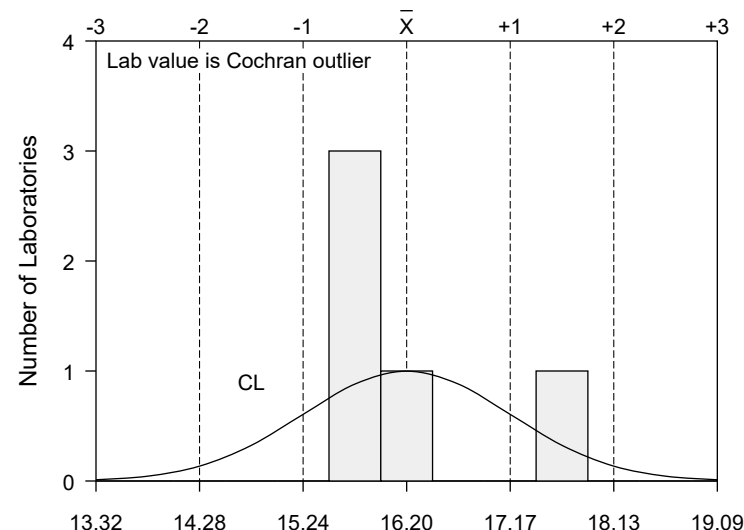
Precision Ratio	11.47	< 2.8
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Current Round	Trend	Bias	Consistency	Rule 1	Rule 2	Rule 3	Rule 4
	A	A	A	0	0	0	0

HISTORICAL PERFORMANCE



FREQUENCY DISTRIBUTION



**PARAMETER REPORT: Nickel, Ni, Dry mg/kg****TE0101**, TE, Trace Elements in Coal - 65 Mesh (212um)**Reported Method:** In House**Reported Instrument:** Plasma Quant Analytik Jena**Reported Ref. Material:** Other

Customer No: 037290

Servicio Geologico Colombiano

SGC - Bogota Laboratory CO

Issued Date: 28 May. 2026 05:00PM

Version 1

STATISTICS

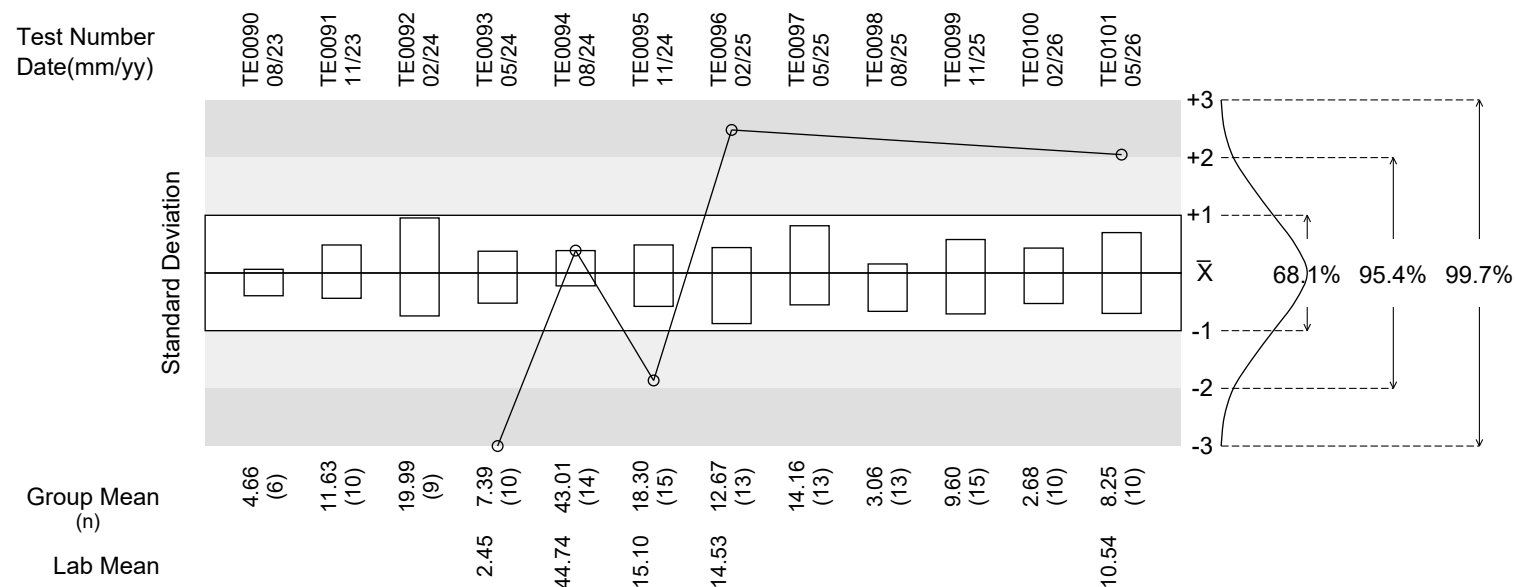
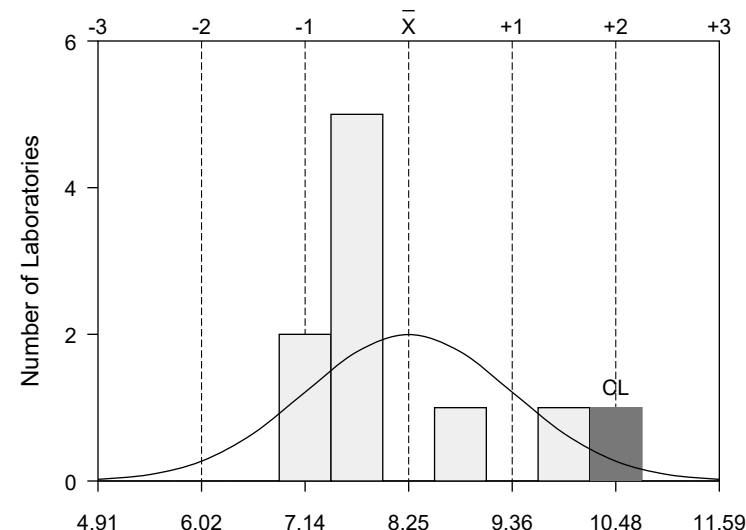
Lab Value	
Mean	SD
10.54	0.064

Group Value		
Mean	SD	n
8.25	1.114	10

Accuracy	Precision Estimates		Precision Factors	
	Laboratory	Ref. Standard		Group
	Mean Difference	within +/- 2.28	Repeatability (r)	0.304
	Z-Score	within +/- 2.05	Reproducibility (R)	3.125
Relative Difference(%)		within +/- 27.69	Confidence Interval	0.797

Precision Ratio	0.59	< 2.8
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Current Round	Trend	Bias	Consistency	Rule 1	Rule 2	Rule 3	Rule 4
	A	A	U	0	1	0	0

HISTORICAL PERFORMANCE**FREQUENCY DISTRIBUTION**

**PARAMETER REPORT: Strontium, Sr, Dry mg/kg****TE0101**, TE, Trace Elements in Coal - 65 Mesh (212um)**Reported Method:** In House**Reported Instrument:** Plasma Quant Analytik Jena**Reported Ref. Material:** Other

Customer No: 037290

Servicio Geologico Colombiano

SGC - Bogota Laboratory CO

Issued Date: 28 May. 2026 05:00PM

Version 1

STATISTICS

Lab Value	
Mean	SD
104.09	1.379

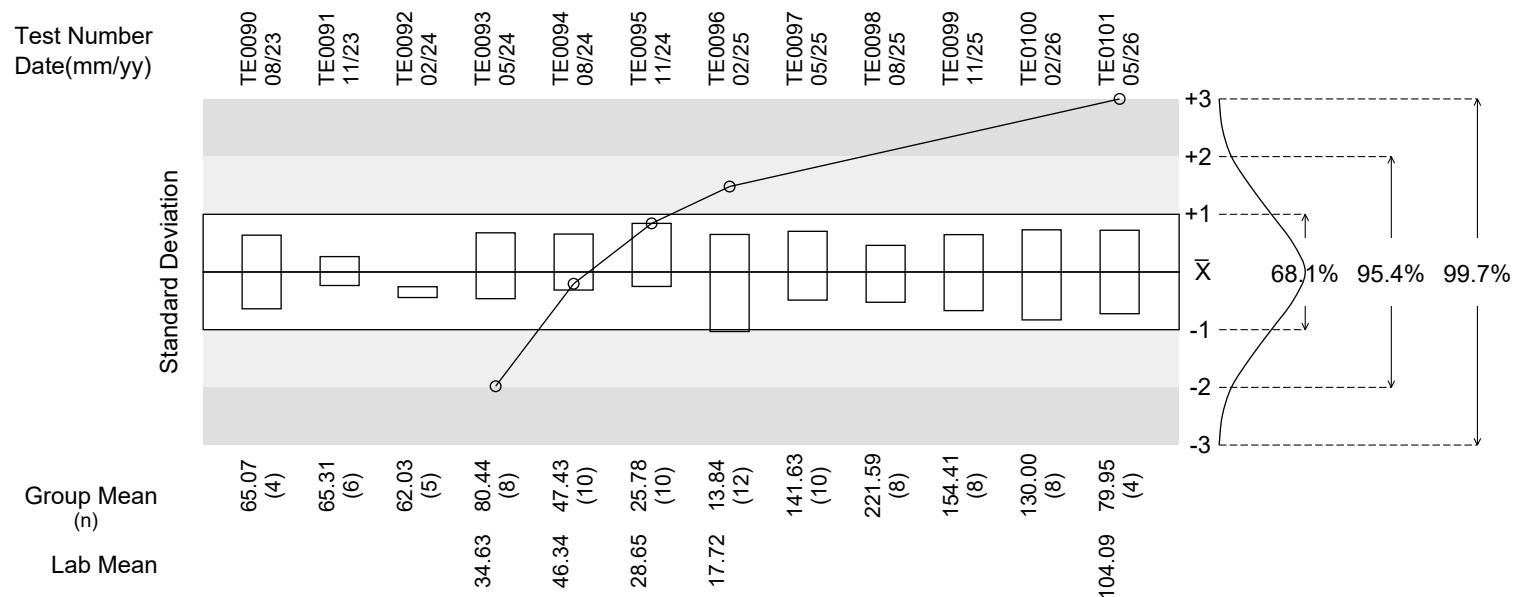
Group Value		
Mean	SD	n
79.95	0.083	4

Accuracy	Precision Estimates		Precision Factors	
	Laboratory	Ref. Standard		Group
	Mean Difference	within +/- 0.17	Repeatability (r)	0.333
	Z-Score	within +/- 2.00	Reproducibility (R)	0.333
Relative Difference(%)		within +/- 0.21	Confidence Interval	0.132

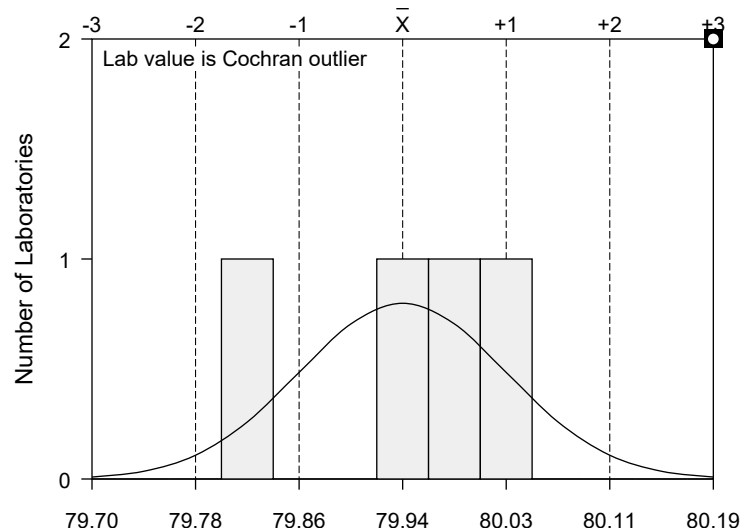
Precision Ratio	11.60	< 2.8
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Current Round	Trend	Bias	Consistency	Rule 1	Rule 2	Rule 3	Rule 4
	A	A	U	1	0	0	0

HISTORICAL PERFORMANCE



FREQUENCY DISTRIBUTION



**PARAMETER REPORT: Vanadium, V, Dry mg/kg****TE0101**, TE, Trace Elements in Coal - 65 Mesh (212um)**Reported Method:** In House**Reported Instrument:** Plasma Quant Analytik Jena**Reported Ref. Material:** Other

Customer No: 037290

Servicio Geologico Colombiano

SGC - Bogota Laboratory CO

Issued Date: 28 May. 2026 05:00PM

Version 1

STATISTICS

Lab Value	
Mean	SD
56.34	1.153

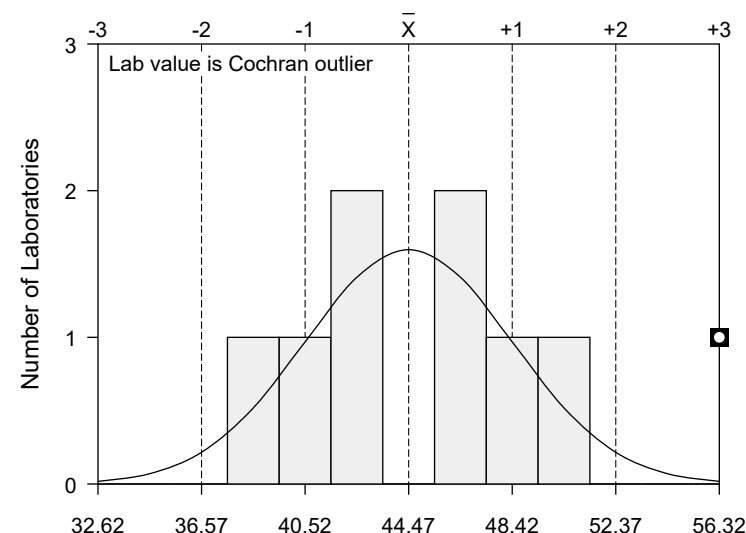
Group Value		
Mean	SD	n
44.47	3.951	8

Accuracy	Precision Estimates		Precision Factors	
	Laboratory	Ref. Standard		Group
	Mean Difference	within +/- 7.90	Repeatability (r)	0.249
	Z-Score	within +/- 2.00	Reproducibility (R)	11.064
Relative Difference(%)		within +/- 17.76	Confidence Interval	3.304

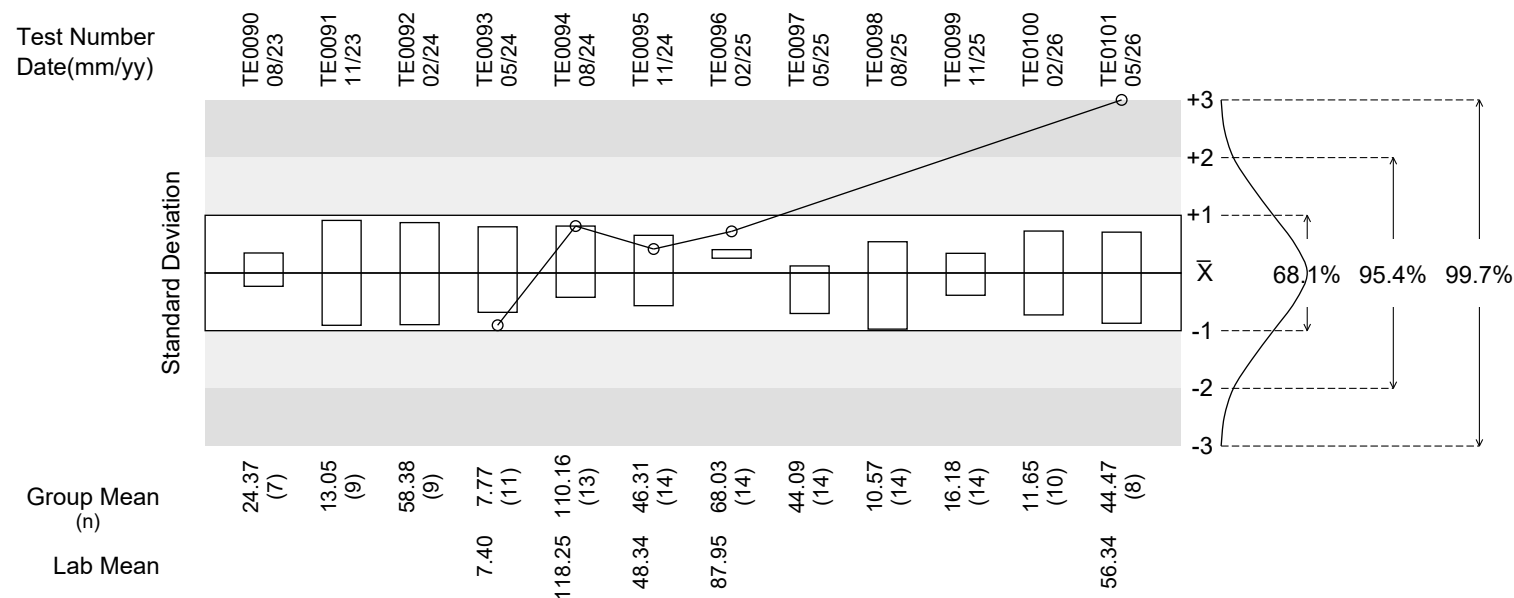
Precision Ratio		
	12.97	< 2.8

Current Round	Trend	Bias	Consistency	Rule 1	Rule 2	Rule 3	Rule 4
	A	A	M	1	0	0	0

FREQUENCY DISTRIBUTION



HISTORICAL PERFORMANCE



PARAMETER REPORT: Zinc, Zn, Dry mg/kg

TE0101, TE, Trace Elements in Coal - 65 Mesh (212um)

Reported Method: In House

Reported Instrument: Plasma Quant Analytik Jena

Reported Ref. Material: Other

Customer No: 037290

Servicio Geologico Colombiano

SGC - Bogota Laboratory CO

Issued Date: 28 May. 2026 05:00PM

Version 1

STATISTICS

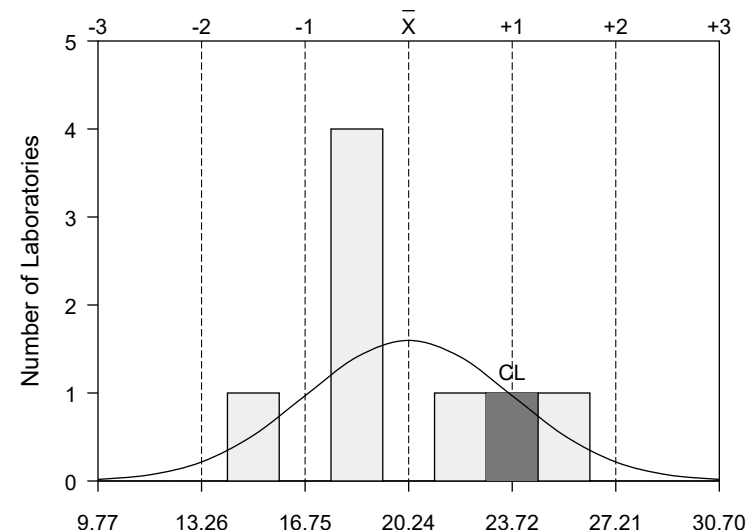
Lab Value		Group Value		
Mean	SD	Mean	SD	n
23.79	0.651	20.24	3.488	8

Accuracy	Precision Estimates		Precision Factors	
	Laboratory	Ref. Standard		Group
	Mean Difference	within +/- 6.98	Repeatability (r)	0.836
	Z-Score	within +/- 2.00	Reproducibility (R)	9.783
Relative Difference(%)	17.57	within +/- 34.49	Confidence Interval	2.916

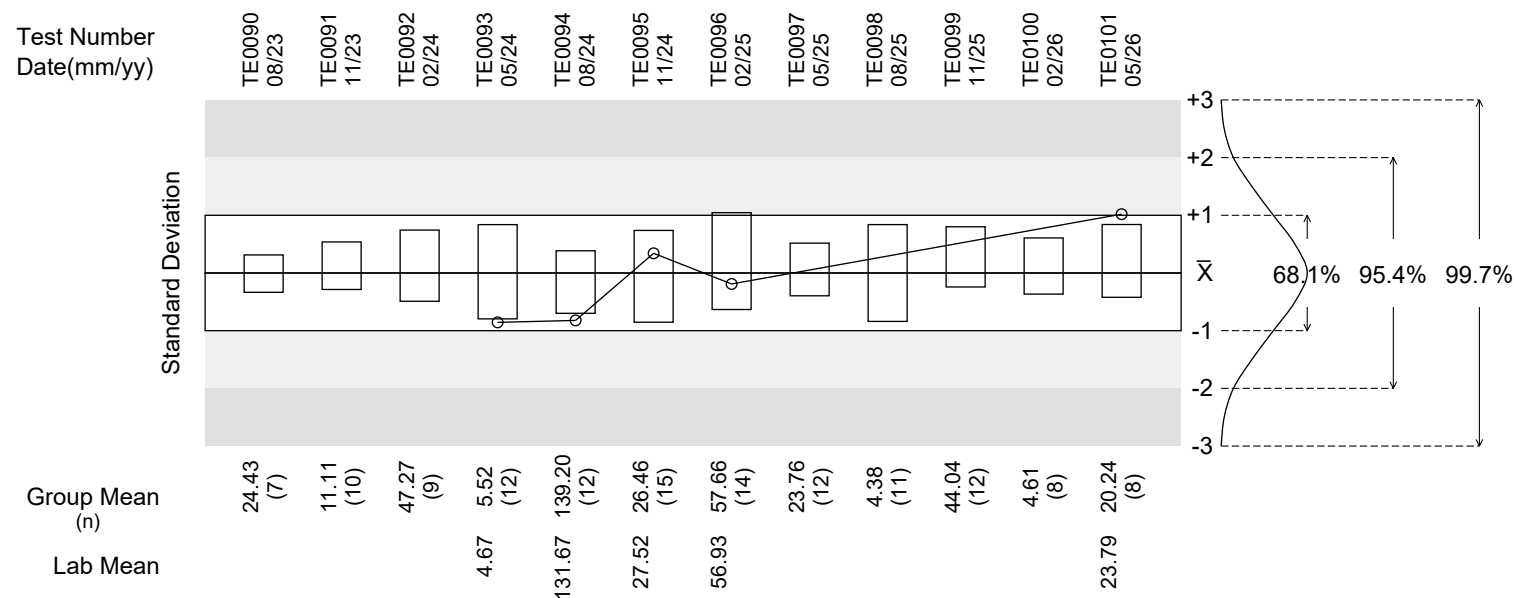
Precision Ratio	2.18	< 2.8
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Current Round	Trend	Bias	Consistency	Rule 1	Rule 2	Rule 3	Rule 4
	A	A	A	0	0	0	0

FREQUENCY DISTRIBUTION



HISTORICAL PERFORMANCE





PERFORMANCE SUMMARY

TE0101, TE, Trace Elements in Coal - 65 Mesh (212um)
Material Source: Not Disclosed

Customer No: 037290
Servicio Geologico Colombiano
SGC - Bogota Laboratory CO

Issued Date: 28 May. 2026 05:00PM
Version 1

TE0101			Historical Performance										
			Average Value										
			Accuracy			Trend	Bias	Consistency	Rule Violations				
Z-Score	Percentile	n	Z-Score	Percentile					1	2	3	4	
Arsenic, As, Dry	0.00	100	5	0.55	63	A	A	A	0	0	0	0	
Beryllium, Be, Dry	0.82	64	5	1.67	31	A	U	U	1	2	0	0	
Chromium, Cr, Dry	1.80	11	5	1.25	38	A	U	M	0	0	0	0	
Cobalt, Co, Dry	0.41	89	5	0.29	88	A	A	A	0	0	0	0	
Copper, Cu, Dry	2.10	11	5	1.02	50	A	A	A	0	0	0	0	
Lead, Pb, Dry	5.99	13	5	1.76	24	A	U	U	1	1	0	0	
Lithium, Li, Dry	-1.44	33	5	0.75	60	A	A	A	0	0	0	0	
Nickel, Ni, Dry	2.05	10	5	1.96	21	A	A	U	1	1	0	0	
Strontium, Sr, Dry	290.96	17	5	1.50	40	A	A	U	1	0	0	0	
Vanadium, V, Dry	3.00	11	5	1.17	42	A	A	M	1	0	0	0	
Zinc, Zn, Dry	1.02	38	5	0.65	61	A	A	A	0	0	0	0	

Percentiles

Percentiles range from 0 to 100.
Larger numbers indicate better performance.

Legend

A = Acceptable
M = Marginal
U = Unacceptable
n.a. = Not applicable

Indications that Process is Not in Control

Rule 1: A single point falls outside three-sigma control limits.
Rule 2: At least 2 out of 3 successive values fall on the same side of, and more than two-sigma away from, the central line.
Rule 3: At least 4 out of 5 successive values fall on the same side of, and more than one-sigma away from, the central line.
Rule 4: At least 8 successive values fall on the same side of the central line.



PERFORMANCE SUMMARY

TE0101, TE, Trace Elements in Coal - 65 Mesh (212um)

Material Source: Not Disclosed

Customer No: 037290

Servicio Geologico Colombiano

SGC - Bogota Laboratory CO

Issued Date: 28 May. 2026 05:00PM

Version 1

END OF REPORT



PARAMETER REPORT: Vanadium, V, Dry mg/kg

TE0101, TE, Trace Elements in Coal - 65 Mesh (212um)

Reported Method: In House

Reported Instrument: Plasma Quant Analytik Jena

Reported Ref. Material: Other

Customer No: 037290

Servicio Geologico Colombiano

SGC - Bogota Laboratory CO

Issued Date: 28 May. 2026 05:46PM

Version 1

STATISTICS

Lab Value	
Mean	SD
56.34	1.153

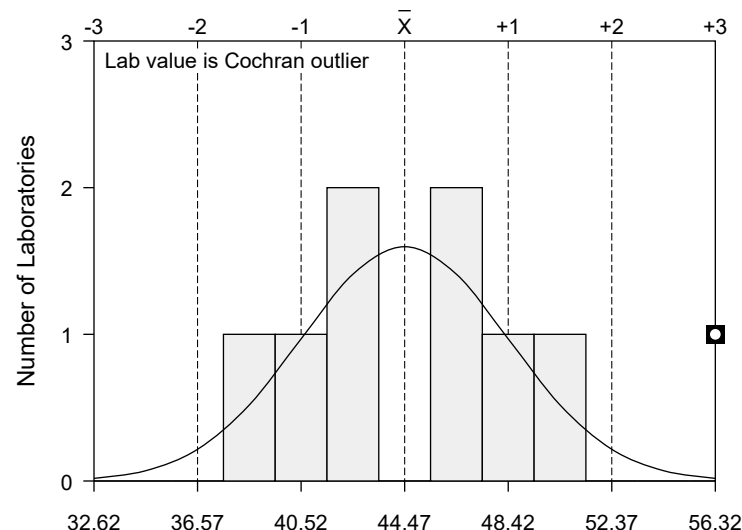
Group Value		
Mean	SD	n
44.47	3.951	8

Accuracy		Precision Estimates		Precision Factors	
Mean Difference	Z-Score	Laboratory	Ref. Standard	Repeatability (r)	Group
		11.87	within +/- 7.90	0.249	
		3.00	within +/- 2.00	11.064	
Relative Difference(%)		26.69	within +/- 17.76	Confidence Interval	3.304

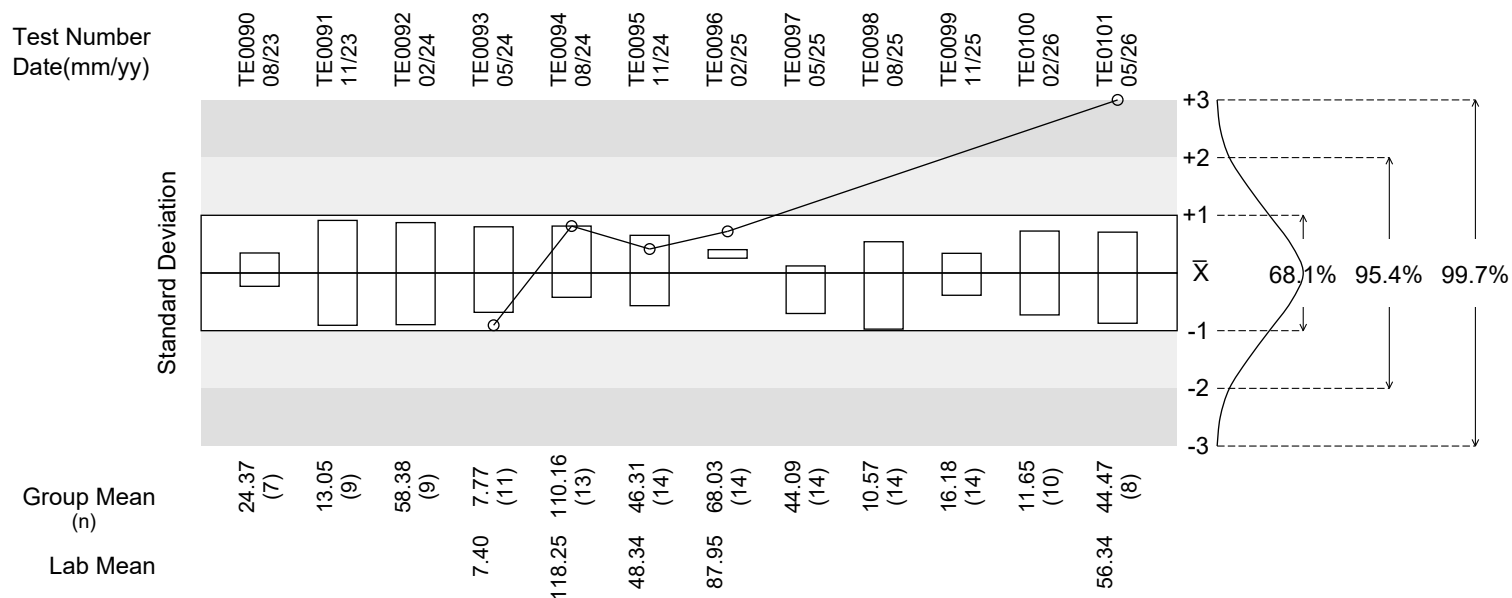
Precision Ratio			
	12.97	< 2.8	

Current Round	Trend	Bias	Consistency	Rule 1	Rule 2	Rule 3	Rule 4
	A	A	M	1	0	0	0

FREQUENCY DISTRIBUTION



HISTORICAL PERFORMANCE



**COVER PAGE****AUH1017**, AUH, High Level Gold Analysis - 200 Mesh (75um)**Material Source:** Australia**Report Version:** Version 1

Customer No: 037290

Servicio Geologico Colombiano

SGC - Bogota Laboratory CO

Issued Date: 21 Apr. 2026 03:08PM

Version 1

Please find following your Final LQSi PTP Report (**Version 1**) for this round. We thank you for submitting your data on time, allowing LQSi to submit our Reports to PTP Projects in a timely manner. If you have any questions regarding this Report, please notify us immediately at lqsi@sgs.com with as much detail as possible.

This report was prepared and reviewed by authorized members of the LQSi Staff.

Sidney Clayborn

Laboratory Quality Services International

(www.LQSi.com)

LQSi Manager

SGS Minerals Services Division

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Email: Sidney.Clayborn@sgs.com**Ateeqbhai Vahora**

Laboratory Quality Services International

(www.LQSi.com)

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The use of affiliates and/or subcontracting done in support of LQSi PTPs may include but is not limited to the following:

- Chemical analysis of samples for the purpose of determining homogeneity and suitability.
- Preparation and distribution of Geochemical Test Samples.

A Method Summary Report (MSR) for this Round is available in your Project library at www.lqsi.com.

Corrective Action Recommendations (CARs) associated with this Report are available in your Project library at www.lqsi.com and, if required, will be sent via email.

A Key Performance Indicator Report (KPI) is posted in your Project library at www.lqsi.com on or after the 6th of the month.

There are additional documents that may assist in your understanding of this report. These documents can be found under Public Library at our website www.lqsi.com.

Here is a list of some of the more pertinent documents

Document Number	Title
524	PTP Types
654	Confidentiality Integrity; English
701	User's Manual
831	Confidentiality Agreement
864	Training Manual

Document Number	Title
872	Basic Statistics 101
872	Statistics Mean
0872 Outlier	Outlier Test
0872 Outlier	Outlier Test (*xlsx)
873	Use of MSRs

We appreciate any comments that you may have about the LQSi SAMS2 system (e.g., data entry, registration, etc.)



STATISTICAL SUMMARY

AUH1017, AUH, High Level Gold Analysis - 200 Mesh (75um)

Material Source: Australia

Report Version: Version 1

Customer No: 037290

Servicio Geologico Colombiano

SGC - Bogota Laboratory CO

Issued Date: 21 Apr. 2026 03:08PM

Version 1

PARAMETER

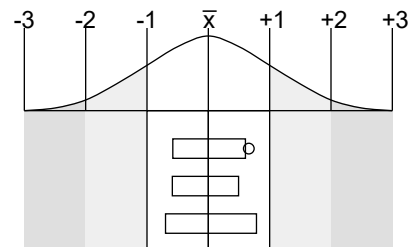
Gold, Fire Assay
Gold, Aqua Regia
Gold, CN Leach

Unit

mg/kg
mg/kg
mg/kg

Lab Value	
Mean	SD
2.51	0.057

% Rel Diff	Z-Score	Precision Ratio
2.60	0.66	1.40



Group Value		
Mean	SD	n
2.45	0.097	58
2.41	0.120	11
2.35	0.057	5

**PARAMETER REPORT: Gold, Fire Assay mg/kg**

AUH1017, AUH, High Level Gold Analysis - 200 Mesh (75um)

Reported Method: Fire Assay**Reported Instrument:** Balanza micrométrica**Reported Ref. Material:** Other

Customer No: 037290

Servicio Geologico Colombiano

SGC - Bogota Laboratory CO

Issued Date: 21 Apr. 2026 03:08PM

Version 1

STATISTICS

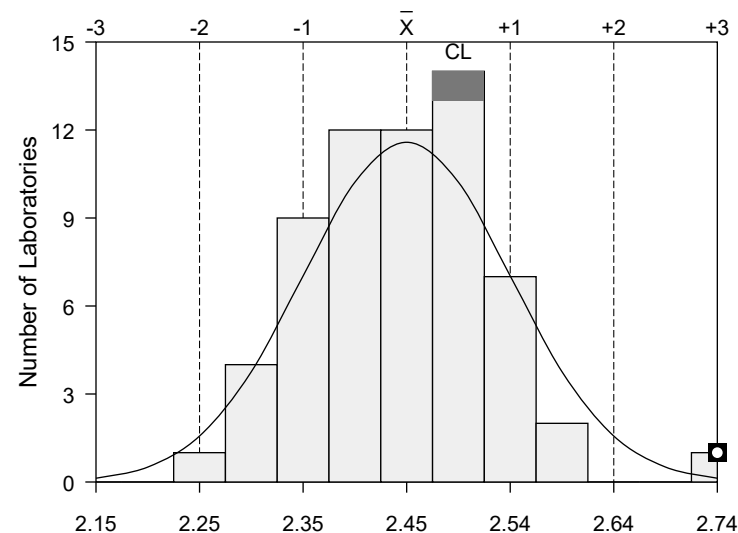
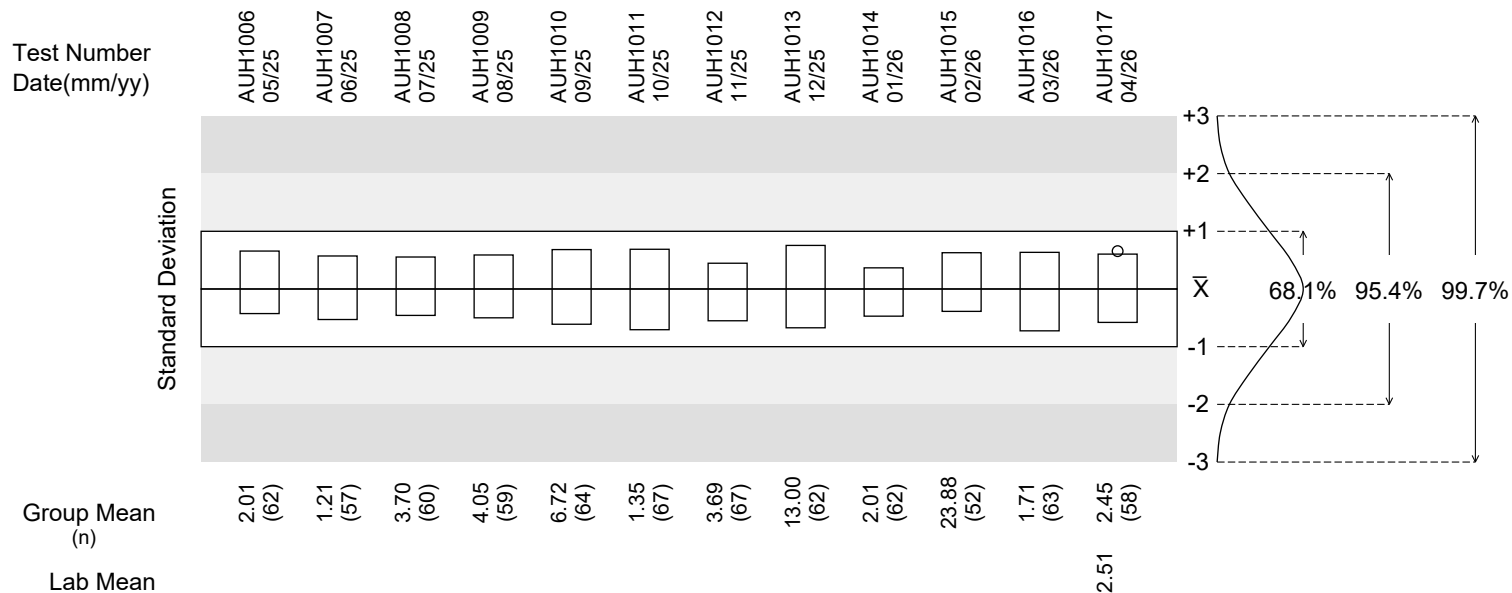
Lab Value	
Mean	SD
2.51	0.057

Group Value		
Mean	SD	n
2.45	0.097	58

Accuracy	Precision Estimates		Precision Factors	
	Laboratory	Ref. Standard		Group
	Mean Difference	within +/- 0.19	Repeatability (r)	0.113
	Z-Score	within +/- 2.00	Reproducibility (R)	0.283
Relative Difference(%)		within +/- 7.76	Confidence Interval	0.026

Precision Ratio	1.40	< 2.8
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Current Round	Trend	Bias	Consistency	Rule 1	Rule 2	Rule 3	Rule 4
	NA	NA	NA	0	0	0	0

FREQUENCY DISTRIBUTION**HISTORICAL PERFORMANCE**



PERFORMANCE SUMMARY

AUH1017, AUH, High Level Gold Analysis - 200 Mesh (75um)
Material Source: Australia

Customer No: 037290
Servicio Geologico Colombiano
SGC - Bogota Laboratory CO

Issued Date: 21 Apr. 2026 03:08PM
Version 1

	AUH1017		Historical Performance									
			Average Value									
			Accuracy		Trend	Bias	Consistency	Rule Violations				
	Z-Score	Percentile	n	Z-Score				Percentile	1	2	3	4
Gold, Fire Assay	0.66	48	1	0.66	48	NA	NA	NA	0	0	0	0

Percentiles

Percentiles range from 0 to 100.
Larger numbers indicate better performance.

Legend

A = Acceptable
M = Marginal
U = Unacceptable
n.a. = Not applicable

Indications that Process is Not in Control

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Rule 4: At least 8 successive values fall on the same side of the central line.



PERFORMANCE SUMMARY

AUH1017, AUH, High Level Gold Analysis - 200 Mesh (75um)

Material Source: Australia

Customer No: 037290

Servicio Geologico Colombiano

SGC - Bogota Laboratory CO

Issued Date: 21 Apr. 2026 03:08PM

Version 1

END OF REPORT

**COVER PAGE****AUL1017**, AUL, Low Level Gold Analysis - 200 Mesh (75um)**Material Source:** Australia**Report Version:** Version 1

Customer No: 037290

Servicio Geologico Colombiano

SGC - Bogota Laboratory CO

Issued Date: 21 Apr. 2026 03:12PM

Version 1

Please find following your Final LQSi PTP Report (**Version 1**) for this round. We thank you for submitting your data on time, allowing LQSi to submit our Reports to PTP Projects in a timely manner. If you have any questions regarding this Report, please notify us immediately at lqsi@sgs.com with as much detail as possible.

This report was prepared and reviewed by authorized members of the LQSi Staff.

Sidney Clayborn

Laboratory Quality Services International

(www.LQSi.com)

LQSi Manager

SGS Minerals Services Division

16130 Van Drunen Road

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Direct Phone: +1-708-225-9121

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Email: Sidney.Clayborn@sgs.com**Ateeqbhai Vahora**

Laboratory Quality Services International

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Email: Ateeqbhai.vahora@sgs.com

The use of affiliates and/or subcontracting done in support of LQSi PTPs may include but is not limited to the following:

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- Preparation and distribution of Geochemical Test Samples.

A Method Summary Report (MSR) for this Round is available in your Project library at www.lqsi.com.

Corrective Action Recommendations (CARs) associated with this Report are available in your Project library at www.lqsi.com and, if required, will be sent via email.

A Key Performance Indicator Report (KPI) is posted in your Project library at www.lqsi.com on or after the 6th of the month.

There are additional documents that may assist in your understanding of this report. These documents can be found under Public Library at our website www.lqsi.com.

Here is a list of some of the more pertinent documents

Document Number	Title
524	PTP Types
654	Confidentiality Integrity; English
701	User's Manual
831	Confidentiality Agreement
864	Training Manual

Document Number	Title
872	Basic Statistics 101
872	Statistics Mean
0872 Outlier	Outlier Test
0872 Outlier	Outlier Test (*xlsx)
873	Use of MSRs

We appreciate any comments that you may have about the LQSi SAMS2 system (e.g., data entry, registration, etc.)



STATISTICAL SUMMARY

AUL1017, AUL, Low Level Gold Analysis - 200 Mesh (75um)

Material Source: Australia

Report Version: Version 1

Customer No: 037290

Servicio Geologico Colombiano

SGC - Bogota Laboratory CO

Issued Date: 21 Apr. 2026 03:12PM

Version 1

PARAMETER

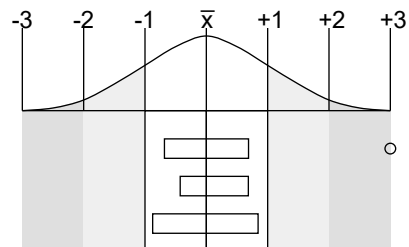
Gold, Fire Assay
Gold, Aqua Regia
Gold, CN Leach

Unit

ug/kg
ug/kg
ug/kg

Lab Value	
Mean	SD
366.645	23.841

% Rel Diff	Z-Score	Precision Ratio
70.11	12.11	3.19



Group Value		
Mean	SD	n
215.531	12.483	52
217.532	10.539	12
213.417	10.758	6

**PARAMETER REPORT: Gold, Fire Assay ug/kg**

AUL1017, AUL, Low Level Gold Analysis - 200 Mesh (75um)

Reported Method: Other

Reported Instrument: ICP-MS

Reported Ref. Material: Other

Customer No: 037290

Servicio Geologico Colombiano

SGC - Bogota Laboratory CO

Issued Date: 21 Apr. 2026 03:12PM

Version 1

STATISTICS

Lab Value	
Mean	SD
366.645	23.841

Group Value		
Mean	SD	n
215.531	12.483	52

Accuracy
Mean Difference
Z-Score
Relative Difference(%)

Precision Estimates

Laboratory
151.114
12.11
70.11

Ref. Standard

within +/- 24.966
within +/- 2.00
within +/- 11.58

Precision Factors

Group
20.908
37.952
3.476

Precision
Ratio

3.19

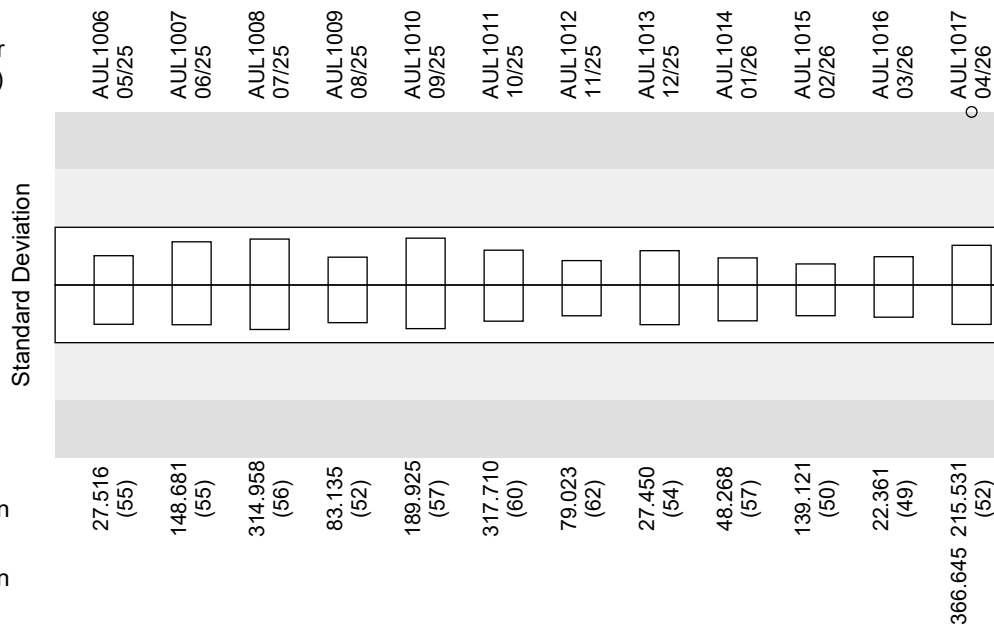
< 2.8

Current Round

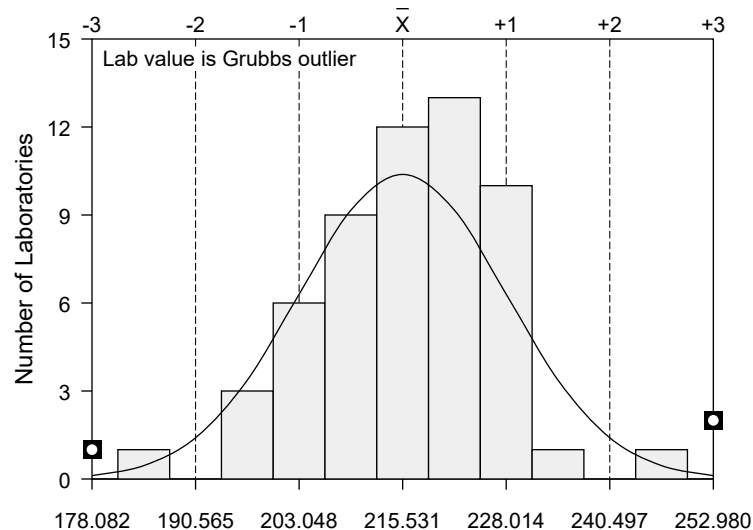
Trend	Bias	Consistency	Rule 1	Rule 2	Rule 3	Rule 4
NA	NA	NA	1	0	0	0

HISTORICAL PERFORMANCE

Test Number
Date(mm/yy)



FREQUENCY DISTRIBUTION



**PERFORMANCE SUMMARY**

AUL1017, AUL, Low Level Gold Analysis - 200 Mesh (75um)
Material Source: Australia

Customer No: 037290
Servicio Geologico Colombiano
SGC - Bogota Laboratory CO

Issued Date: 21 Apr. 2026 03:12PM
Version 1

	AUL1017		Historical Performance									
			Average Value									
	Z-Score	Percentile	n	Accuracy		Trend	Bias	Consistency	Rule Violations			
				Z-Score	Percentile				1	2	3	4
Gold, Fire Assay	12.11	2	1	3.00	2	NA	NA	NA	1	0	0	0

Percentiles

Percentiles range from 0 to 100.
Larger numbers indicate better performance.

Legend

A = Acceptable
M = Marginal
U = Unacceptable
n.a. = Not applicable

Indications that Process is Not in Control

Rule 1: A single point falls outside three-sigma control limits.
Rule 2: At least 2 out of 3 successive values fall on the same side of, and more than two-sigma away from, the central line.
Rule 3: At least 4 out of 5 successive values fall on the same side of, and more than one-sigma away from, the central line.
Rule 4: At least 8 successive values fall on the same side of the central line.



PERFORMANCE SUMMARY

AUL1017, AUL, Low Level Gold Analysis - 200 Mesh (75um)
Material Source: Australia

Customer No: 037290
Servicio Geologico Colombiano
SGC - Bogota Laboratory CO

Issued Date: 21 Apr. 2026 03:12PM
Version 1

END OF REPORT

**COVER PAGE**

BMT1017, BMT, Base Metals, Total Digest (40) 200 mesh (75um)
Material Source: Australia
Report Version: Version 1

Customer No: 037290
Servicio Geologico Colombiano
SGC - Bogota Laboratory CO

Issued Date: 21 Apr. 2026 06:13PM
Version 1

Please find following your Final LQSi PTP Report (**Version 1**) for this round. We thank you for submitting your data on time, allowing LQSi to submit our Reports to PTP Projects in a timely manner. If you have any questions regarding this Report, please notify us immediately at lqsi@sgs.com with as much detail as possible.

This report was prepared and reviewed by authorized members of the LQSi Staff.

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The use of affiliates and/or subcontracting done in support of LQSi PTPs may include but is not limited to the following:

- Chemical analysis of samples for the purpose of determining homogeneity and suitability.
- Preparation and distribution of Geochemical Test Samples.

A Method Summary Report (MSR) for this Round is available in your Project library at www.lqsi.com.

Corrective Action Recommendations (CARs) associated with this Report are available in your Project library at www.lqsi.com and, if required, will be sent via email.

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Here is a list of some of the more pertinent documents

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Document Number	Title
872	Basic Statistics 101
872	Statistics Mean
0872 Outlier	Outlier Test
0872 Outlier	Outlier Test (*.xlsx)
873	Use of MSRs

We appreciate any comments that you may have about the LQSi SAMS2 system (e.g., data entry, registration, etc.)



STATISTICAL SUMMARY

BMT1017, BMT, Base Metals, Total Digest (40) 200 mesh (75um)

Material Source: Australia

Report Version: Version 1

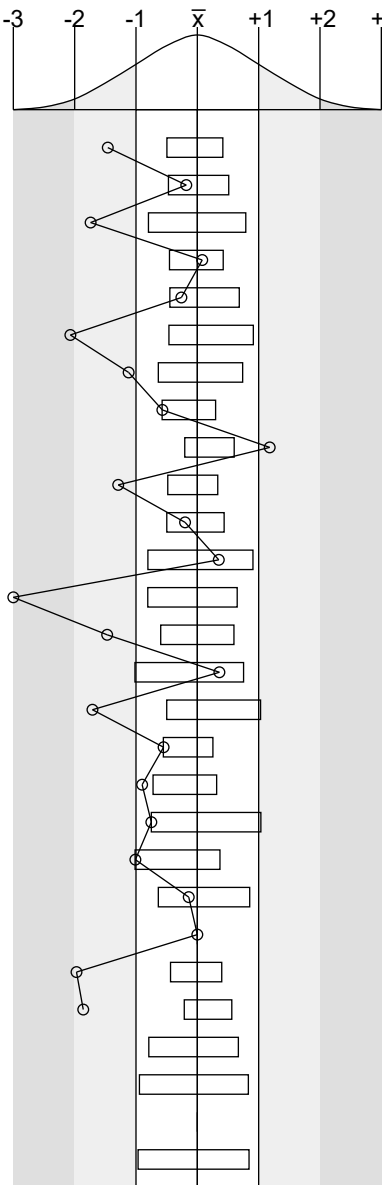
Customer No: 037290

Servicio Geologico Colombiano

SGC - Bogota Laboratory CO

Issued Date: 21 Apr. 2026 06:13PM

Version 1

PARAMETER	Unit	Lab Value		% Rel Diff	Z-Score	Precision Ratio		Group Value		
		Mean	SD					Mean	SD	n
Copper, Cu, Dry	mg/kg	1775.0	20.36	-4.25	-1.46	1.22		1853.8	54.04	14
Lead, Pb, Dry	mg/kg	12.1	0.85	-4.35	-0.18	1.56		12.7	3.03	12
Zinc, Zn, Dry	mg/kg	191.8	6.43	-15.92	-1.74	1.28		228.0	20.84	14
Silver, Ag, Dry	mg/kg	10.71	0.226	0.61	0.08	0.83		10.65	0.816	12
Nickel, Ni, Dry	mg/kg	881.5	5.73	-0.93	-0.26	0.47		889.8	31.80	13
Cobalt, Co, Dry	mg/kg	44.7	0.57	-15.62	-2.07	0.33		53.0	4.00	15
Arsenic, As, Dry	mg/kg	272.700	3.54	-6.57	-1.12	0.84		291.865	17.09	13
Barium, Ba, Dry	mg/kg	2951.08	6.102	-2.75	-0.57	0.16		3034.60	145.582	10
Beryllium, Be, Dry	mg/kg	0.47	0.007	12.35	1.18	0.56		0.41	0.043	9
Bismuth, Bi, Dry	mg/kg	5.42	0.170	-37.42	-1.29	0.43		8.66	2.521	9
Cadmium, Cd, Dry	mg/kg	1.49	0.014	-2.69	-0.20	0.56		1.53	0.203	9
Cerium, Ce, Dry	mg/kg	5.43	0.064	10.30	0.35	0.83		4.92	1.462	6
Chromium, Cr, Dry	mg/kg	438.23	4.907	-63.54	-6.57	0.13		1202.02	116.330	8
Hafnium, Hf, Dry	mg/kg	0.08	0.021	-57.45	-1.47	1.55		0.18	0.069	4
Lanthanum, La, Dry	mg/kg	3.03	0.064	10.28	0.36	0.97		2.74	0.792	8
Manganese, Mn, Dry	mg/kg	1117	14.85	-5.44	-1.71	1.03		1181	37.58	10
Molybdenum, Mo, Dry	mg/kg	0.29	0.021	-30.20	-0.55	0.95		0.41	0.223	6
Niobium, Nb, Dry	mg/kg	0.21	0.021	-82.89	-0.90	0.55		1.20	1.101	7
Strontium, Sr, Dry	mg/kg	343.09	4.101	-3.93	-0.75	0.69		357.12	18.706	10
Thallium, Tl, Dry	mg/kg	0.06	0.007	-16.67	-1.01	1.58		0.07	0.011	5
Thorium, Th, Dry	mg/kg	0.48	0.007	-1.45	-0.14	0.71		0.48	0.050	5
Uranium, U, Dry	mg/kg	0.11	0.007	-12.50	0.00	0.00		0.12	0.000	3
Vanadium, V, Dry	mg/kg	36.76	1.556	-26.47	-1.97	1.87		49.99	6.725	10
Zirconium, Zr, Dry	mg/kg	0.38	0.057	-93.97	-1.86	1.26		6.30	3.181	7
Aluminum, Al, Dry	mg/kg							13075	410.94	9
Antimony, Sb, Dry	mg/kg							453.34	55.452	6
Calcium Oxide, CaO, Dry	% by wt							13.710	0.0000	1
Calcium, Ca, Dry	mg/kg							97941	2266.80	8



STATISTICAL SUMMARY

BMT1017, BMT, Base Metals, Total Digest (40) 200 mesh (75um)

Material Source: Australia

Report Version: Version 1

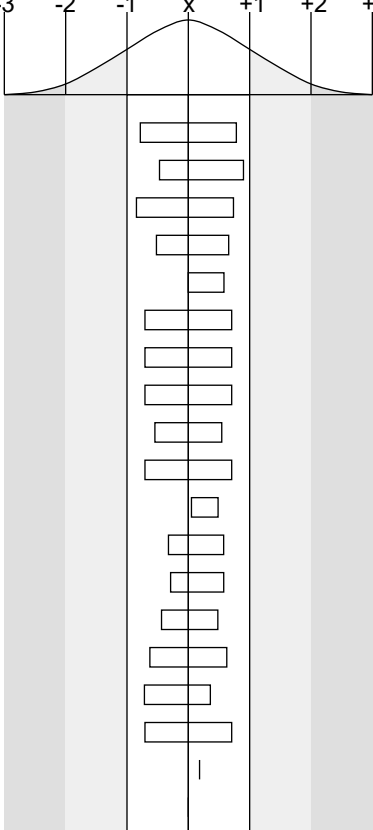
Customer No: 037290

Servicio Geologico Colombiano

SGC - Bogota Laboratory CO

Issued Date: 21 Apr. 2026 06:13PM

Version 1

PARAMETER	Unit	Lab Value		% Rel Diff	Z-Score	Precision Ratio		Group Value		
		Mean	SD					Mean	SD	n
Indium, In, Dry	mg/kg	0.03	0.005					0.03	0.005	4
Iron, Fe, Dry	mg/kg	48211	1194.19					48211	1194.19	10
Lithium, Li, Dry	mg/kg	8.63	0.934					8.63	0.934	8
Magnesium, Mg, Dry	mg/kg	67890	2027.19					67890	2027.19	8
Rubidium, Rb, Dry	mg/kg	15.43	1.924					15.43	1.924	6
Tin, Sn, Dry	mg/kg	0.35	0.212					0.35	0.212	2
Tungsten, W, Dry	mg/kg	1.25	1.626					1.25	1.626	2
Caesium, Cs, Dry	mg/kg	1.88	0.173					1.88	0.173	2
Gallium, Ga, Dry	mg/kg	4.71	2.464					4.71	2.464	4
Lutetium, Lu, Dry	mg/kg	0.06	0.007					0.06	0.007	2
Potassium, K, Dry	mg/kg	4128.22	251.350					4128.22	251.350	5
Sodium, Na, Dry	mg/kg	227.97	111.116					227.97	111.116	3
Phosphorus, P, Dry	mg/kg	93.95	10.488					93.95	10.488	3
Sulfur, S, Dry	% by wt	0.15	0.02					0.15	0.02	6
Scandium, Sc, Dry	mg/kg	8.63	0.082					8.63	0.082	4
Titanium, Ti, Dry	mg/kg	921.59	79.064					921.59	79.064	6
Terbium, Tb, Dry	mg/kg	0.10	0.007					0.10	0.007	2
Yttrium, Y, Dry	mg/kg	2.75	0.027					2.75	0.027	5
Ytterbium, Yb, Dry	mg/kg	0.30	0.000					0.30	0.000	2

PARAMETER REPORT: Copper, Cu, Dry mg/kg

BMT1017, BMT, Base Metals, Total Digest (40) 200 mesh (75um)

Reported Method: Other

Reported Instrument: Agilent 7900 ICP-MS-SQ

Reported Ref. Material: Other

Customer No: 037290

Servicio Geologico Colombiano

SGC - Bogota Laboratory CO

Issued Date: 21 Apr. 2026 06:14PM

Version 1

STATISTICS

Lab Value	
Mean	SD
1775.0	20.36

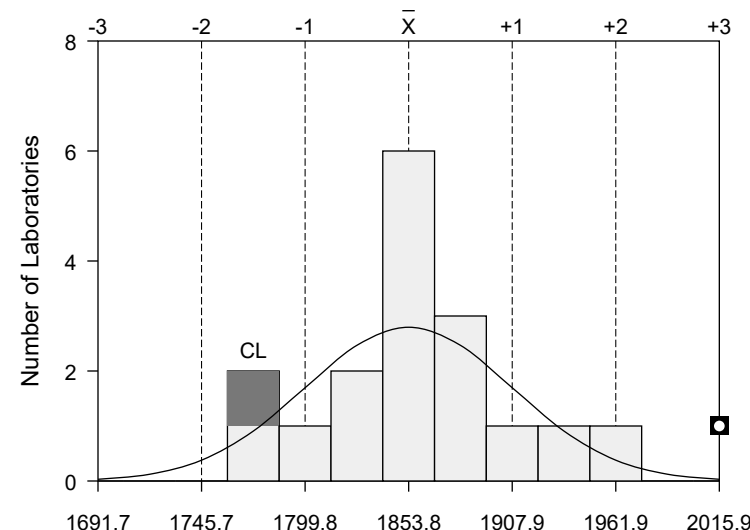
Group Value		
Mean	SD	n
1853.8	54.04	14

Accuracy	Precision Estimates		Precision Factors	
	Laboratory	Ref. Standard	Repeatability (r)	Group
	Mean Difference	within +/- 108.1		46.900
	Z-Score	within +/- 2.00	Reproducibility (R)	154.904
Relative Difference(%)		within +/- 5.83	Confidence Interval	31.196

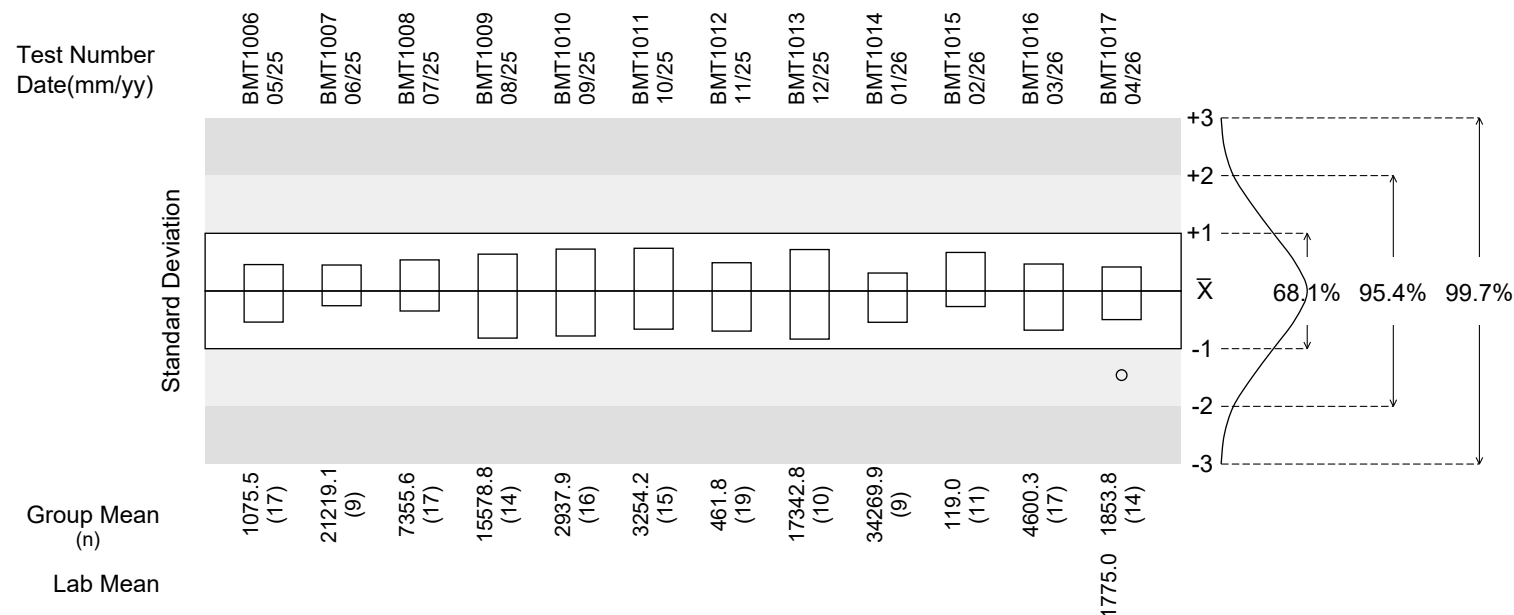
Precision Ratio	1.22	< 2.8
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Current Round	Trend	Bias	Consistency	Rule 1	Rule 2	Rule 3	Rule 4
	NA	NA	NA	0	0	0	0

FREQUENCY DISTRIBUTION



HISTORICAL PERFORMANCE



**PARAMETER REPORT: Lead, Pb, Dry mg/kg****BMT1017**, BMT, Base Metals, Total Digest (40) 200 mesh (75um)**Reported Method:** Other**Reported Instrument:** Agilent 7900 ICP-MS-SQ**Reported Ref. Material:** Other

Customer No: 037290

Servicio Geologico Colombiano

SGC - Bogota Laboratory CO

Issued Date: 21 Apr. 2026 06:14PM

Version 1

STATISTICS

Lab Value	
Mean	SD
12.1	0.85

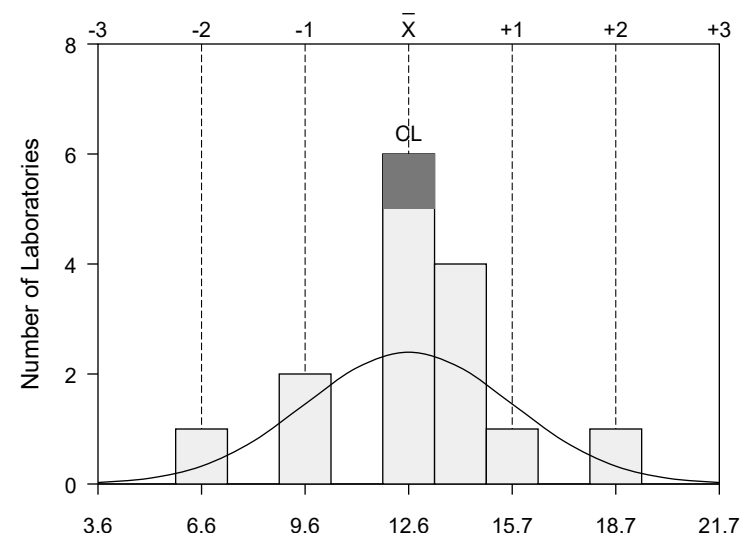
Group Value		
Mean	SD	n
12.7	3.03	12

Accuracy	Precision Estimates		Precision Factors	
	Laboratory	Ref. Standard		Group
	Mean Difference	within +/- 6.1	Repeatability (r)	1.523
	Z-Score	within +/- 2.00	Reproducibility (R)	8.543
Relative Difference(%)		within +/- 48.03	Confidence Interval	1.923

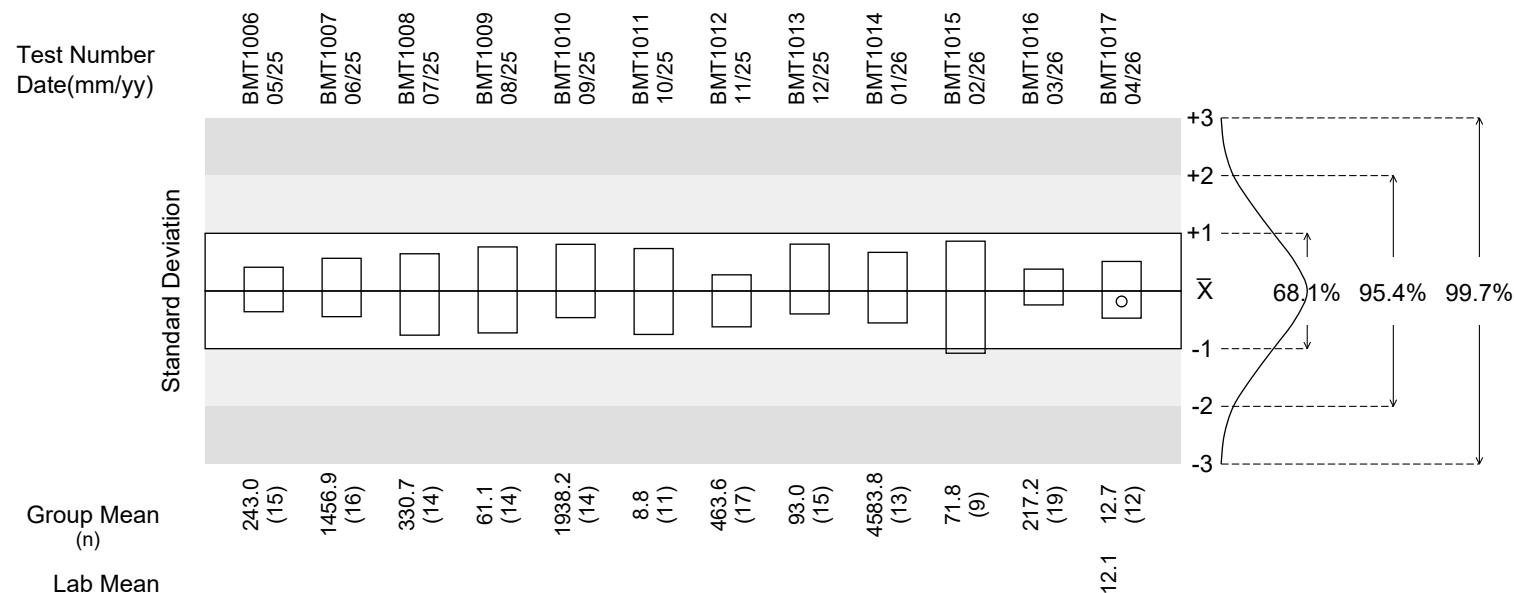
Precision Ratio	
	1.56
	< 2.8

Current Round						
Trend	Bias	Consistency	Rule 1	Rule 2	Rule 3	Rule 4
NA	NA	NA	0	0	0	0

FREQUENCY DISTRIBUTION



HISTORICAL PERFORMANCE



**PARAMETER REPORT: Zinc, Zn, Dry mg/kg****BMT1017**, BMT, Base Metals, Total Digest (40) 200 mesh (75um)**Reported Method:** Other**Reported Instrument:** Agilent 7900 ICP-MS-SQ**Reported Ref. Material:** Other

Customer No: 037290

Servicio Geologico Colombiano

SGC - Bogota Laboratory CO

Issued Date: 21 Apr. 2026 06:14PM

Version 1

STATISTICS

Lab Value	
Mean	SD
191.8	6.43

Group Value		
Mean	SD	n
228.0	20.84	14

Accuracy
Mean Difference
Z-Score
Relative Difference(%)

Precision Estimates

Laboratory
-36.3
-1.74
-15.92

Ref. Standard
within +/- 41.7
within +/- 2.00
within +/- 18.29

Precision Factors

Group
Repeatability (r)
Reproducibility (R)
Confidence Interval
14.024
59.175
12.028

Precision
Ratio

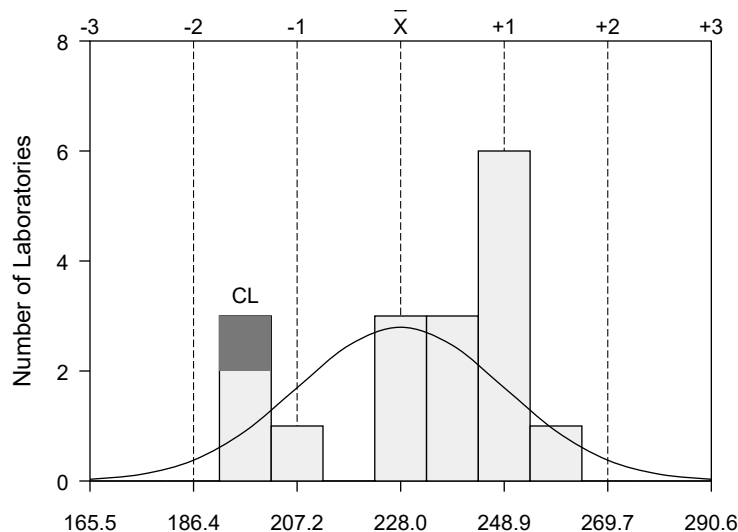
1.28

< 2.8

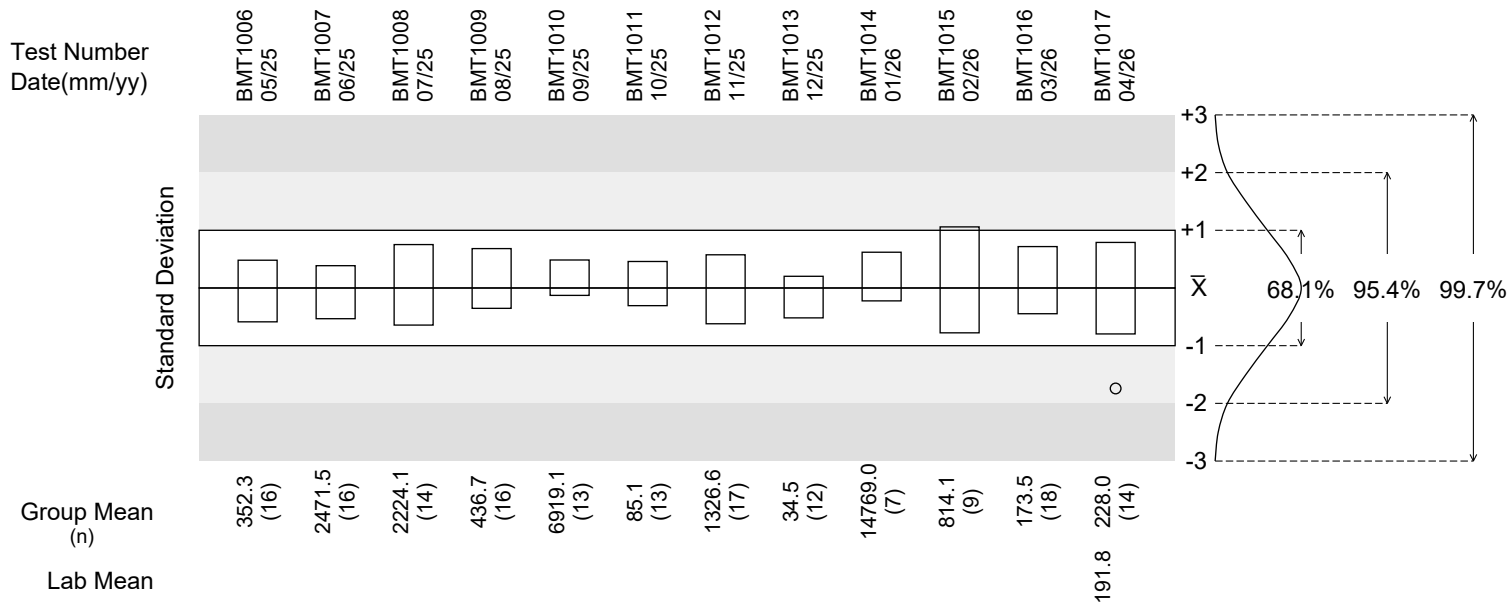
Current Round

Trend	Bias	Consistency	Rule 1	Rule 2	Rule 3	Rule 4
NA	NA	NA	0	0	0	0

FREQUENCY DISTRIBUTION



HISTORICAL PERFORMANCE



**PARAMETER REPORT: Silver, Ag, Dry mg/kg****BMT1017**, BMT, Base Metals, Total Digest (40) 200 mesh (75um)**Reported Method:** Other**Reported Instrument:** Agilent 7900 ICP-MS-SQ**Reported Ref. Material:** Other

Customer No: 037290

Servicio Geologico Colombiano

SGC - Bogota Laboratory CO

Issued Date: 21 Apr. 2026 06:14PM

Version 1

STATISTICS

Lab Value	
Mean	SD
10.71	0.226

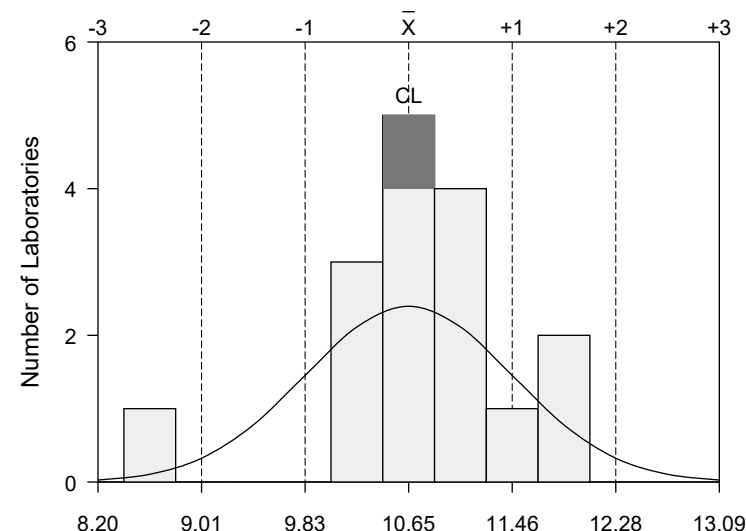
Group Value		
Mean	SD	n
10.65	0.816	12

Accuracy	Precision Estimates		Precision Factors	
	Laboratory	Ref. Standard		Group
	Mean Difference	within +/- 1.63	Repeatability (r)	0.764
	Z-Score	within +/- 2.00	Reproducibility (R)	2.349
Relative Difference(%)		within +/- 15.31	Confidence Interval	0.519

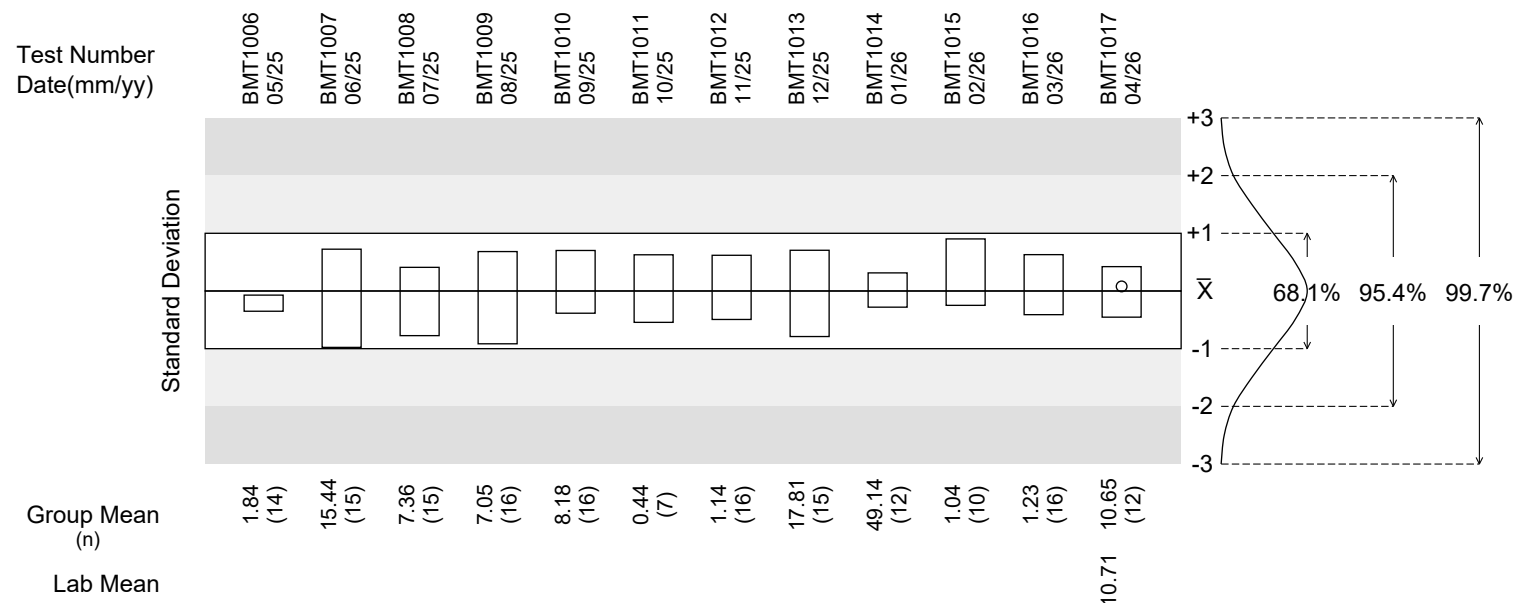
Precision Ratio	0.83	< 2.8
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Current Round	Trend	Bias	Consistency	Rule 1	Rule 2	Rule 3	Rule 4
	NA	NA	NA	0	0	0	0

FREQUENCY DISTRIBUTION



HISTORICAL PERFORMANCE



**PARAMETER REPORT: Nickel, Ni, Dry mg/kg****BMT1017**, BMT, Base Metals, Total Digest (40) 200 mesh (75um)**Reported Method:** Other**Reported Instrument:** Agilent 7900 ICP-MS-SQ**Reported Ref. Material:** Other

Customer No: 037290

Servicio Geologico Colombiano

SGC - Bogota Laboratory CO

Issued Date: 21 Apr. 2026 06:14PM

Version 1

STATISTICS

Lab Value	
Mean	SD
881.5	5.73

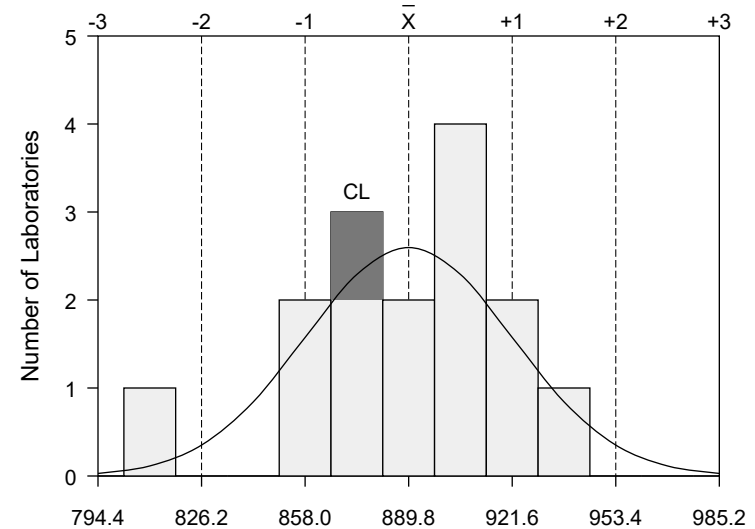
Group Value		
Mean	SD	n
889.8	31.80	13

Accuracy	Precision Estimates		Precision Factors	
	Laboratory	Ref. Standard		Group
	Mean Difference	within +/- 63.6	Repeatability (r)	33.873
	Z-Score	within +/- 2.00	Reproducibility (R)	92.201
Relative Difference(%)		within +/- 7.15	Confidence Interval	19.217

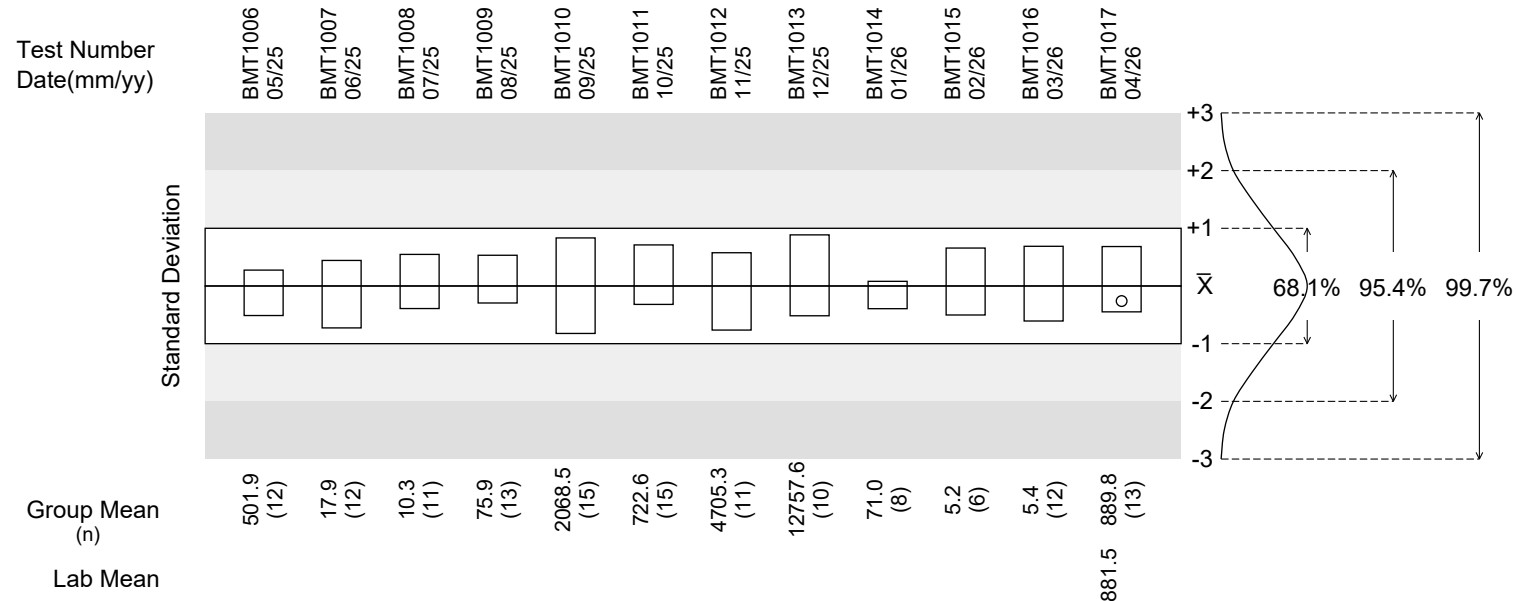
Precision Ratio	0.47	< 2.8
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Current Round	Trend	Bias	Consistency	Rule 1	Rule 2	Rule 3	Rule 4
	NA	NA	NA	0	0	0	0

FREQUENCY DISTRIBUTION



HISTORICAL PERFORMANCE



**PARAMETER REPORT: Cobalt, Co, Dry mg/kg****BMT1017**, BMT, Base Metals, Total Digest (40) 200 mesh (75um)**Reported Method:** Other**Reported Instrument:** Agilent 7900 ICP-MS-SQ**Reported Ref. Material:** Other

Customer No: 037290

Servicio Geologico Colombiano

SGC - Bogota Laboratory CO

Issued Date: 21 Apr. 2026 06:14PM

Version 1

STATISTICS

Lab Value	
Mean	SD
44.7	0.57

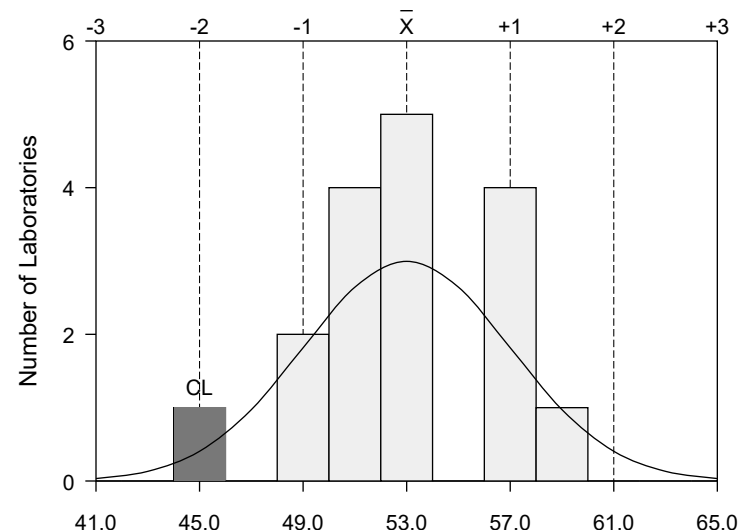
Group Value		
Mean	SD	n
53.0	4.00	15

Accuracy	Precision Estimates		Precision Factors	
	Laboratory	Ref. Standard		Group
	Mean Difference	within +/- 8.0	Repeatability (r)	4.834
	Z-Score	within +/- 2.00	Reproducibility (R)	11.702
Relative Difference(%)		within +/- 15.09	Confidence Interval	2.214

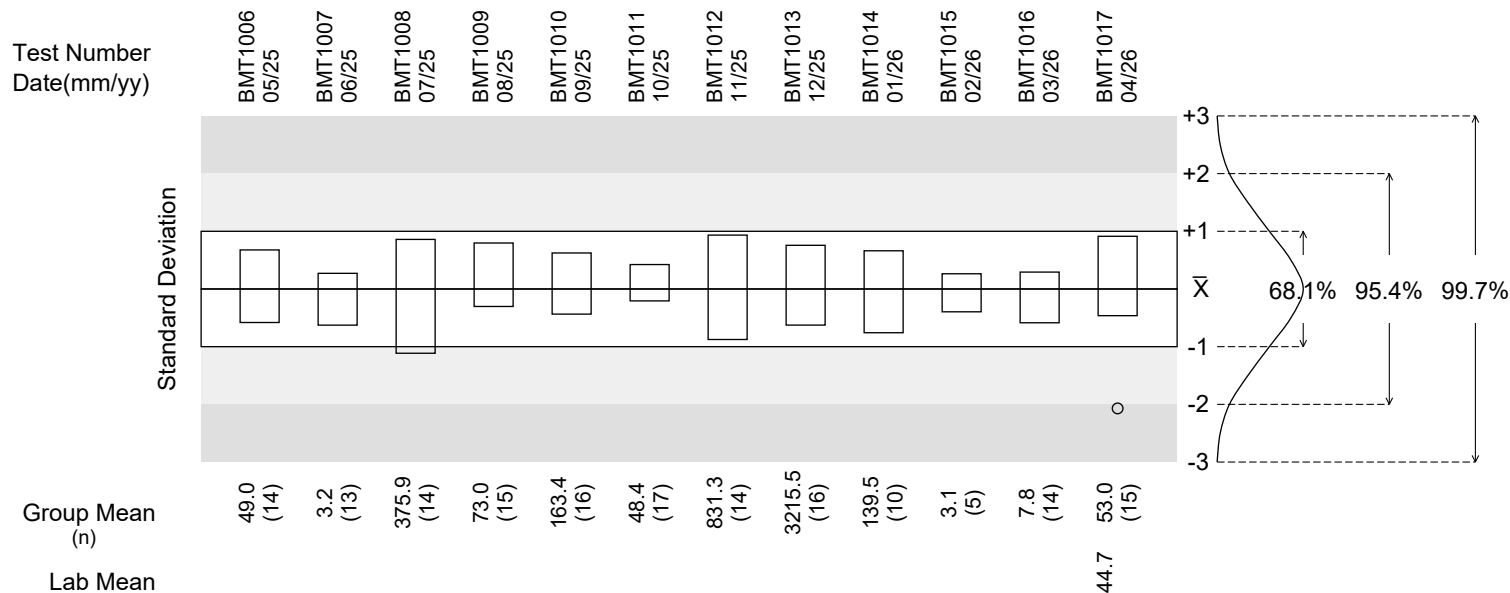
Precision Ratio	0.33	< 2.8
-----------------	------	-------

Current Round	Trend	Bias	Consistency	Rule 1	Rule 2	Rule 3	Rule 4
	NA	NA	NA	0	0	0	0

FREQUENCY DISTRIBUTION



HISTORICAL PERFORMANCE



**PARAMETER REPORT: Arsenic, As, Dry mg/kg****BMT1017**, BMT, Base Metals, Total Digest (40) 200 mesh (75um)**Reported Method:** Other**Reported Instrument:** Agilent 7900 ICP-MS-SQ**Reported Ref. Material:** Other

Customer No: 037290

Servicio Geologico Colombiano

SGC - Bogota Laboratory CO

Issued Date: 21 Apr. 2026 06:14PM

Version 1

STATISTICS

Lab Value	
Mean	SD
272.700	3.54

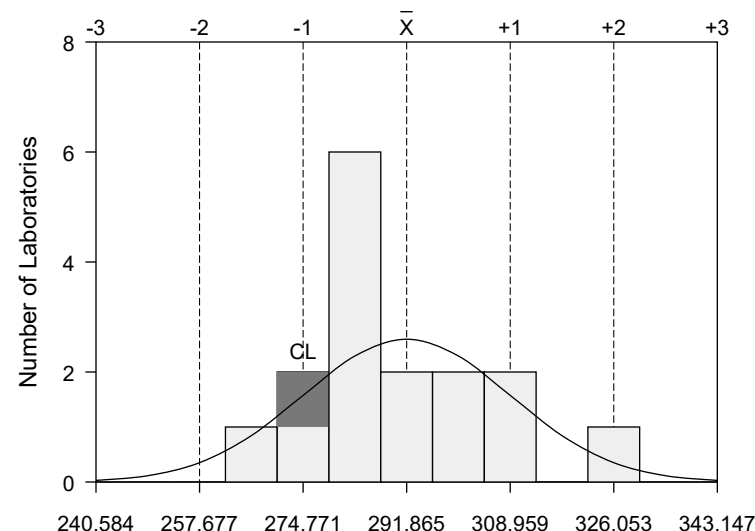
Group Value		
Mean	SD	n
291.865	17.09	13

Accuracy	Precision Estimates		Precision Factors	
	Laboratory	Ref. Standard		Group
	Mean Difference	within +/- 34.188	Repeatability (r)	11.793
	Z-Score	within +/- 2.00	Reproducibility (R)	48.584
Relative Difference(%)		within +/- 11.71	Confidence Interval	10.331

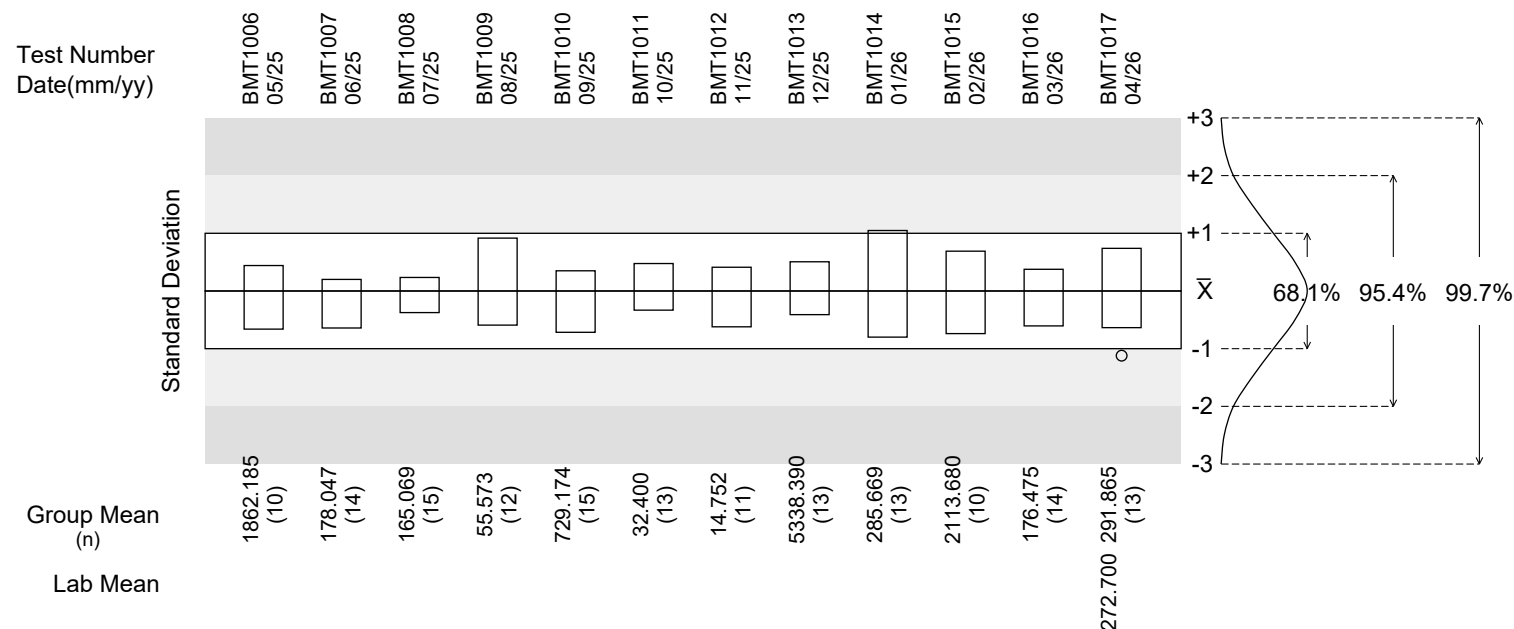
Precision Ratio	0.84	< 2.8
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Current Round	Trend	Bias	Consistency	Rule 1	Rule 2	Rule 3	Rule 4
	NA	NA	NA	0	0	0	0

FREQUENCY DISTRIBUTION



HISTORICAL PERFORMANCE



**PARAMETER REPORT: Barium, Ba, Dry mg/kg****BMT1017**, BMT, Base Metals, Total Digest (40) 200 mesh (75um)**Reported Method:** Other**Reported Instrument:** Agilent 7900 ICP-MS-SQ**Reported Ref. Material:** Other

Customer No: 037290

Servicio Geologico Colombiano

SGC - Bogota Laboratory CO

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Version 1

STATISTICS

Lab Value	
Mean	SD
2951.08	6.102

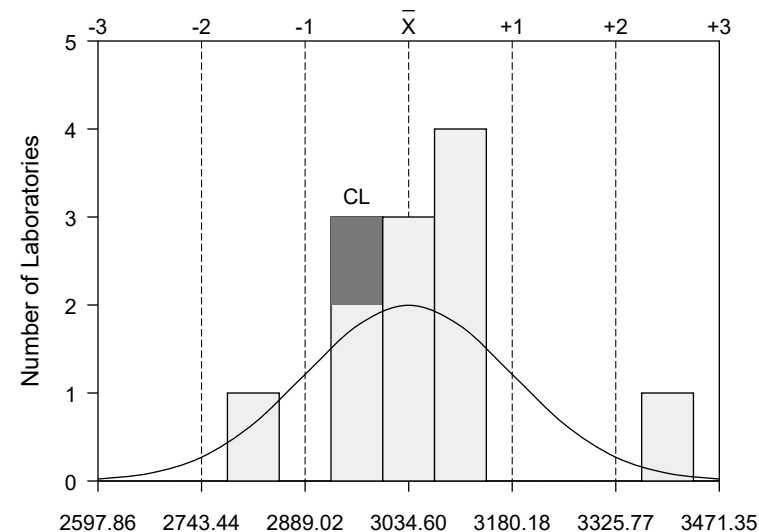
Group Value		
Mean	SD	n
3034.60	145.582	10

Accuracy	Precision Estimates		Precision Factors	
	Laboratory	Ref. Standard		Group
	Mean Difference	within +/- 291.16	Repeatability (r)	106.624
	Z-Score	within +/- 2.00	Reproducibility (R)	414.544
Relative Difference(%)		within +/- 9.59	Confidence Interval	104.136

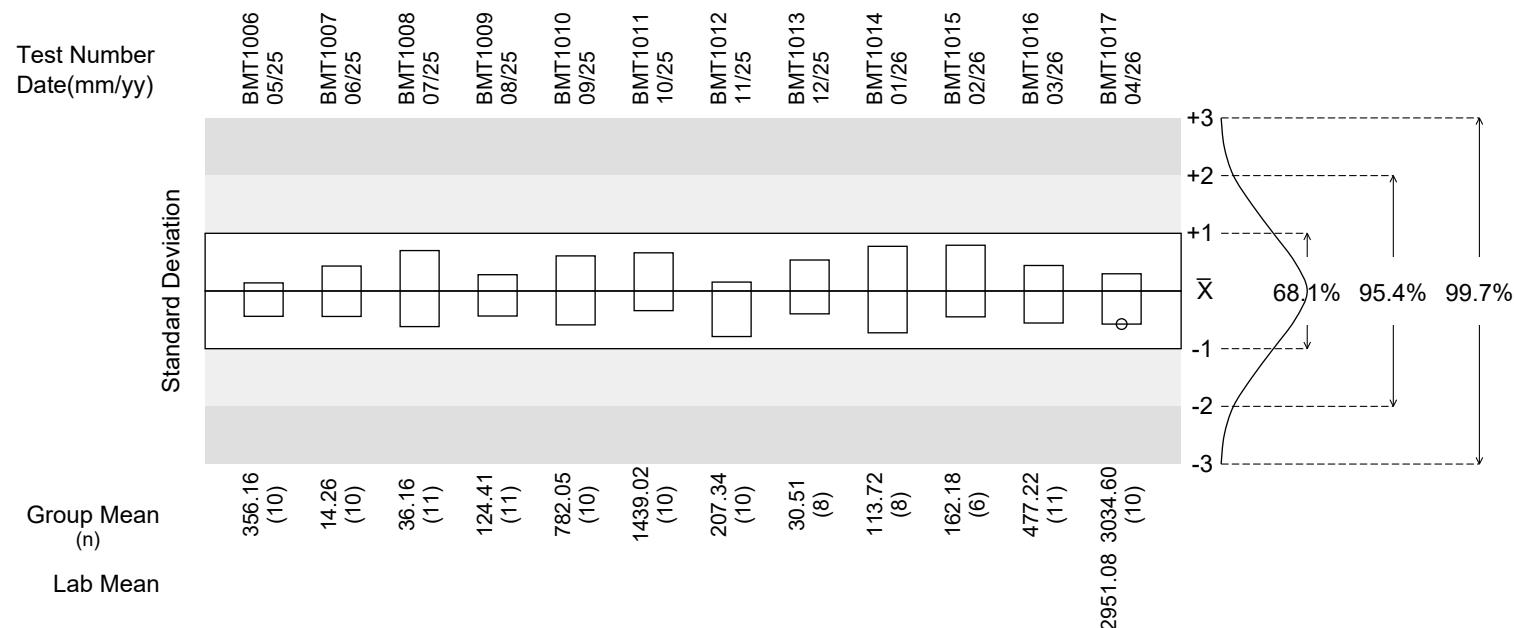
Precision Ratio	0.16	< 2.8
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Current Round	Trend	Bias	Consistency	Rule 1	Rule 2	Rule 3	Rule 4
	NA	NA	NA	0	0	0	0

FREQUENCY DISTRIBUTION



HISTORICAL PERFORMANCE



**PARAMETER REPORT: Beryllium, Be, Dry mg/kg****BMT1017**, BMT, Base Metals, Total Digest (40) 200 mesh (75um)**Reported Method:** Other**Reported Instrument:** Agilent 7900 ICP-MS-SQ**Reported Ref. Material:** Other

Customer No: 037290

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STATISTICS

Lab Value	
Mean	SD
0.47	0.007

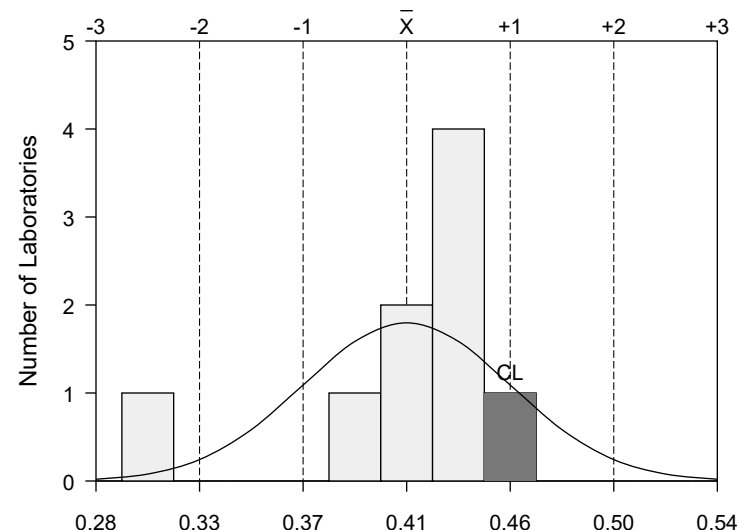
Group Value		
Mean	SD	n
0.41	0.043	9

Accuracy	Precision Estimates		Precision Factors	
	Laboratory	Ref. Standard		Group
	Mean Difference	within +/- 0.09	Repeatability (r)	0.036
	Z-Score	within +/- 2.00	Reproducibility (R)	0.124
Relative Difference(%)		within +/- 21.95	Confidence Interval	0.033

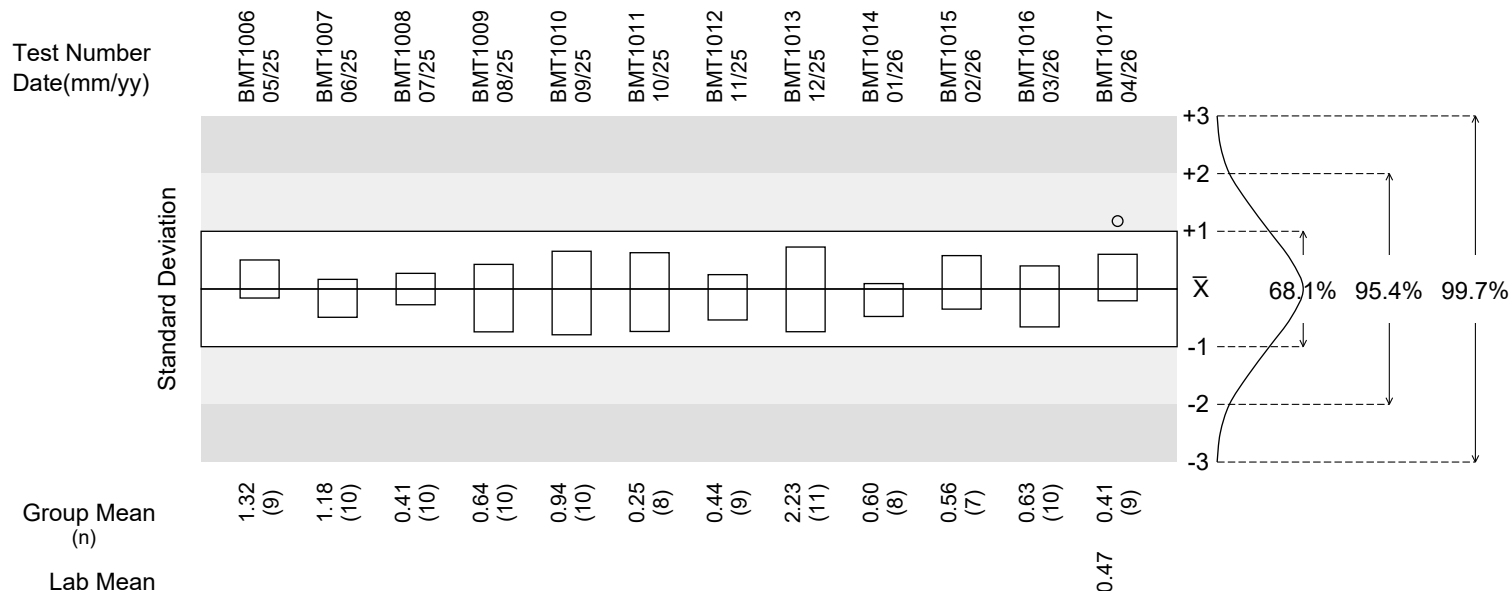
Precision Ratio	0.56	< 2.8
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Current Round	Trend	Bias	Consistency	Rule 1	Rule 2	Rule 3	Rule 4
	NA	NA	NA	0	0	0	0

FREQUENCY DISTRIBUTION



HISTORICAL PERFORMANCE



**PARAMETER REPORT: Bismuth, Bi, Dry mg/kg****BMT1017**, BMT, Base Metals, Total Digest (40) 200 mesh (75um)**Reported Method:** Other**Reported Instrument:** Agilent 7900 ICP-MS-SQ**Reported Ref. Material:** Other

Customer No: 037290

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STATISTICS

Lab Value	
Mean	SD
5.42	0.170

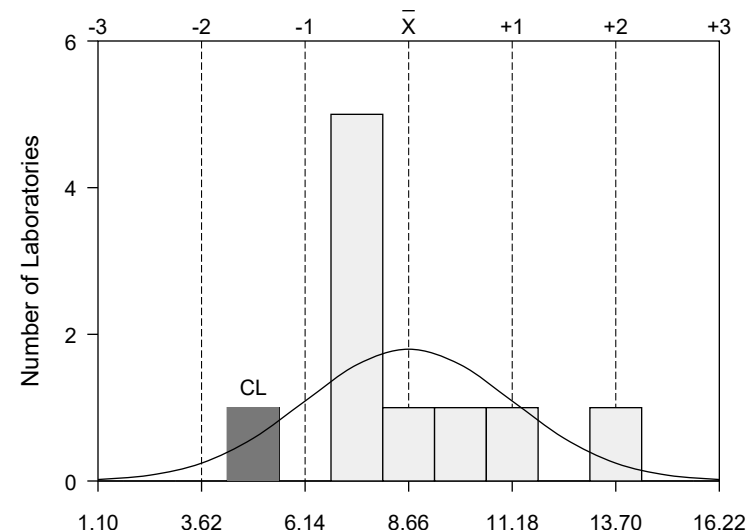
Group Value		
Mean	SD	n
8.66	2.521	9

Accuracy	Precision Estimates		Precision Factors	
	Laboratory	Ref. Standard		Group
	Mean Difference	within +/- 5.04	Repeatability (r)	1.099
	Z-Score	within +/- 2.00	Reproducibility (R)	7.102
Relative Difference(%)		within +/- 58.20	Confidence Interval	1.938

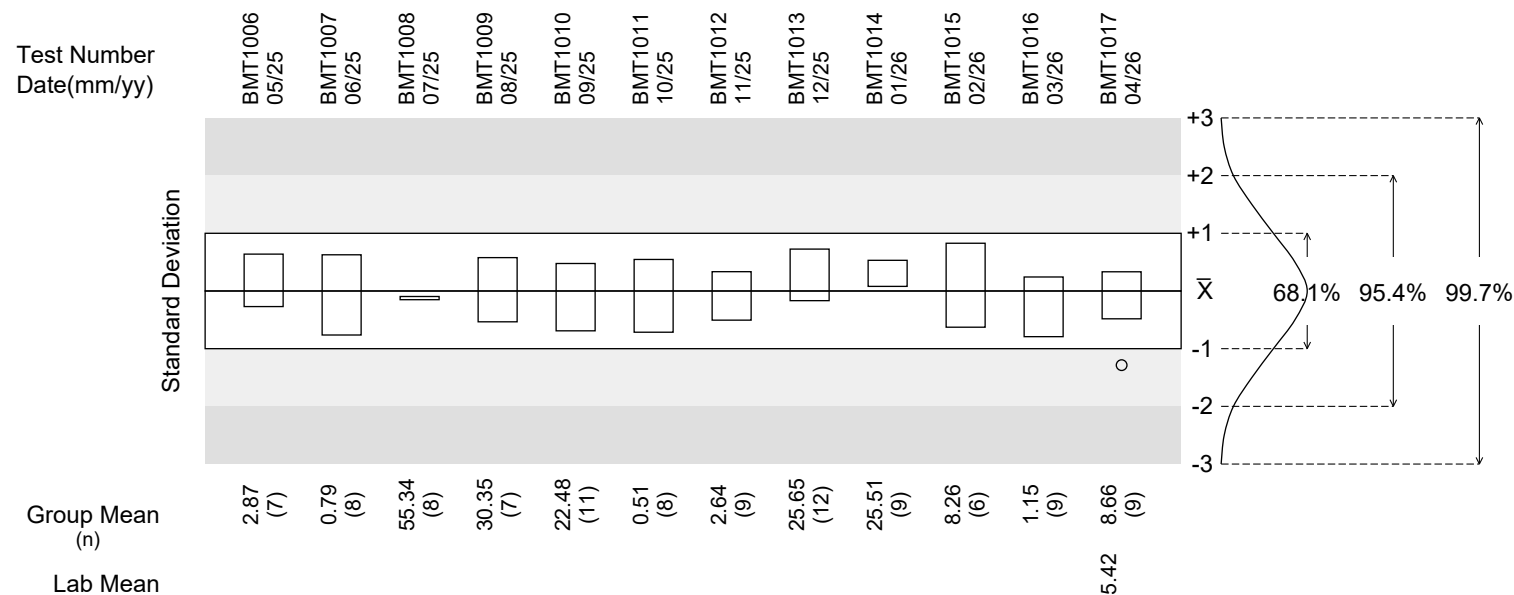
Precision Ratio	0.43	< 2.8
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Current Round	Trend	Bias	Consistency	Rule 1	Rule 2	Rule 3	Rule 4
	NA	NA	NA	0	0	0	0

FREQUENCY DISTRIBUTION



HISTORICAL PERFORMANCE



**PARAMETER REPORT: Cadmium, Cd, Dry mg/kg****BMT1017**, BMT, Base Metals, Total Digest (40) 200 mesh (75um)**Reported Method:** Other**Reported Instrument:** Agilent 7900 ICP-MS-SQ**Reported Ref. Material:** Other

Customer No: 037290

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Version 1

STATISTICS

Lab Value	
Mean	SD
1.49	0.014

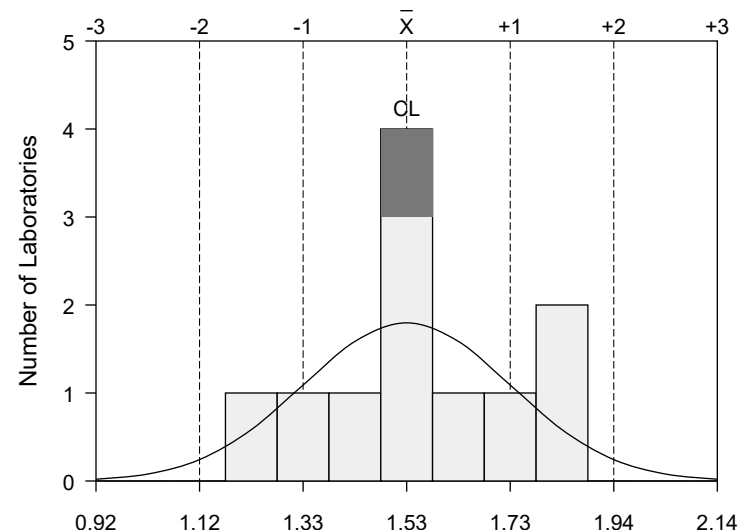
Group Value		
Mean	SD	n
1.53	0.203	9

Accuracy	Precision Estimates		Precision Factors	
	Laboratory	Ref. Standard		Group
	Mean Difference	within +/- 0.41	Repeatability (r)	0.071
	Z-Score	within +/- 2.00	Reproducibility (R)	0.571
Relative Difference(%)		within +/- 26.80	Confidence Interval	0.156

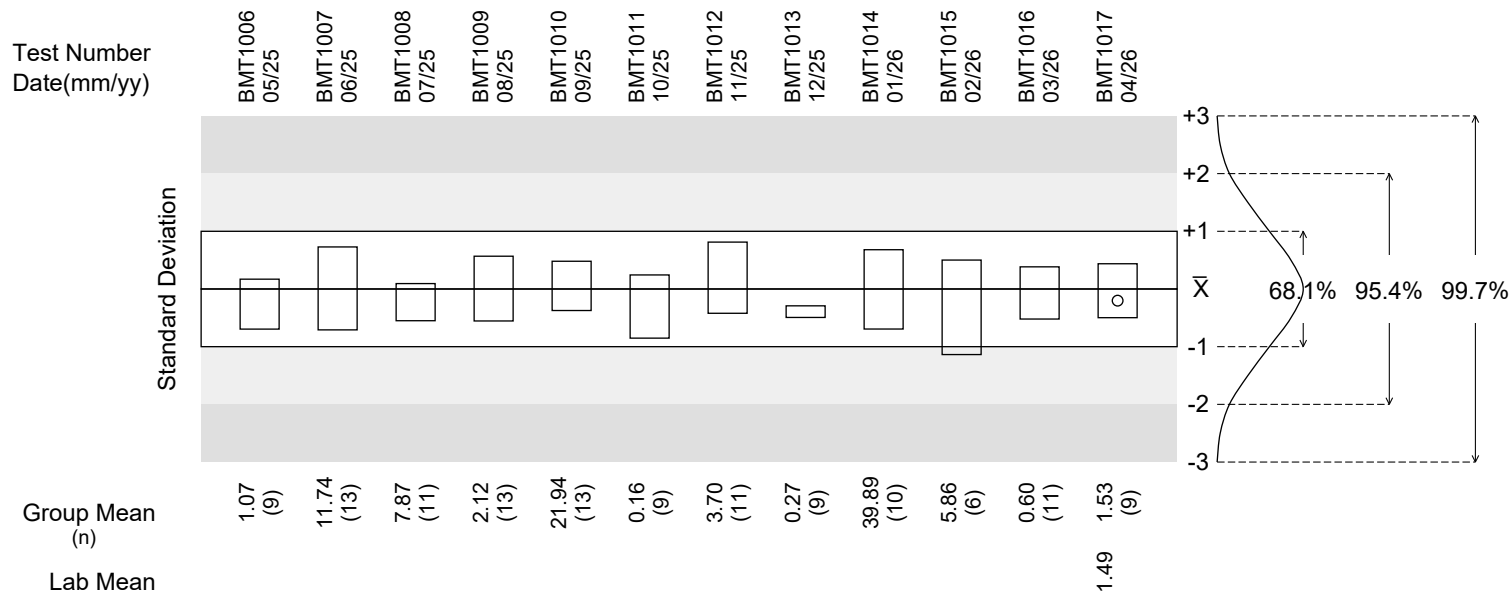
Precision Ratio	0.56	< 2.8
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Current Round	Trend	Bias	Consistency	Rule 1	Rule 2	Rule 3	Rule 4
	NA	NA	NA	0	0	0	0

FREQUENCY DISTRIBUTION



HISTORICAL PERFORMANCE



**PARAMETER REPORT: Cerium, Ce, Dry mg/kg****BMT1017**, BMT, Base Metals, Total Digest (40) 200 mesh (75um)**Reported Method:** Other**Reported Instrument:** Agilent 7900 ICP-MS-SQ**Reported Ref. Material:** Other

Customer No: 037290

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STATISTICS

Lab Value	
Mean	SD
5.43	0.064

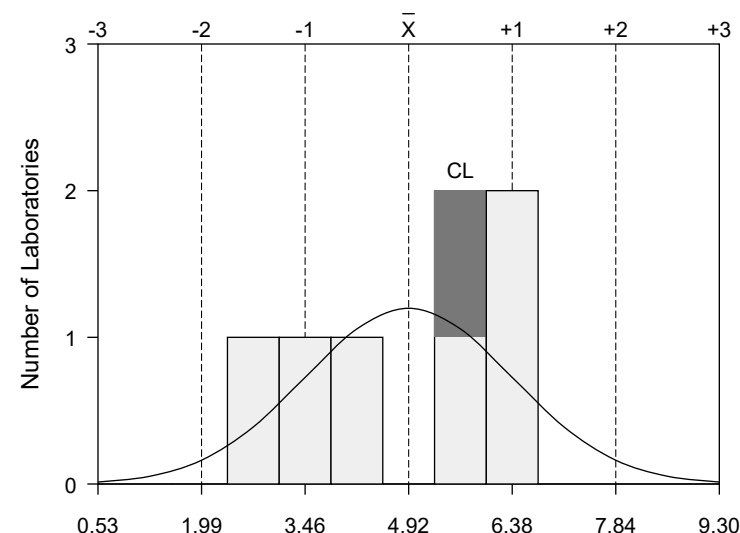
Group Value		
Mean	SD	n
4.92	1.462	6

Accuracy	Precision Estimates		Precision Factors	
	Laboratory	Ref. Standard		Group
	Mean Difference	within +/- 2.92	Repeatability (r)	0.214
	Z-Score	within +/- 2.00	Reproducibility (R)	4.097
Relative Difference(%)		within +/- 59.35	Confidence Interval	1.535

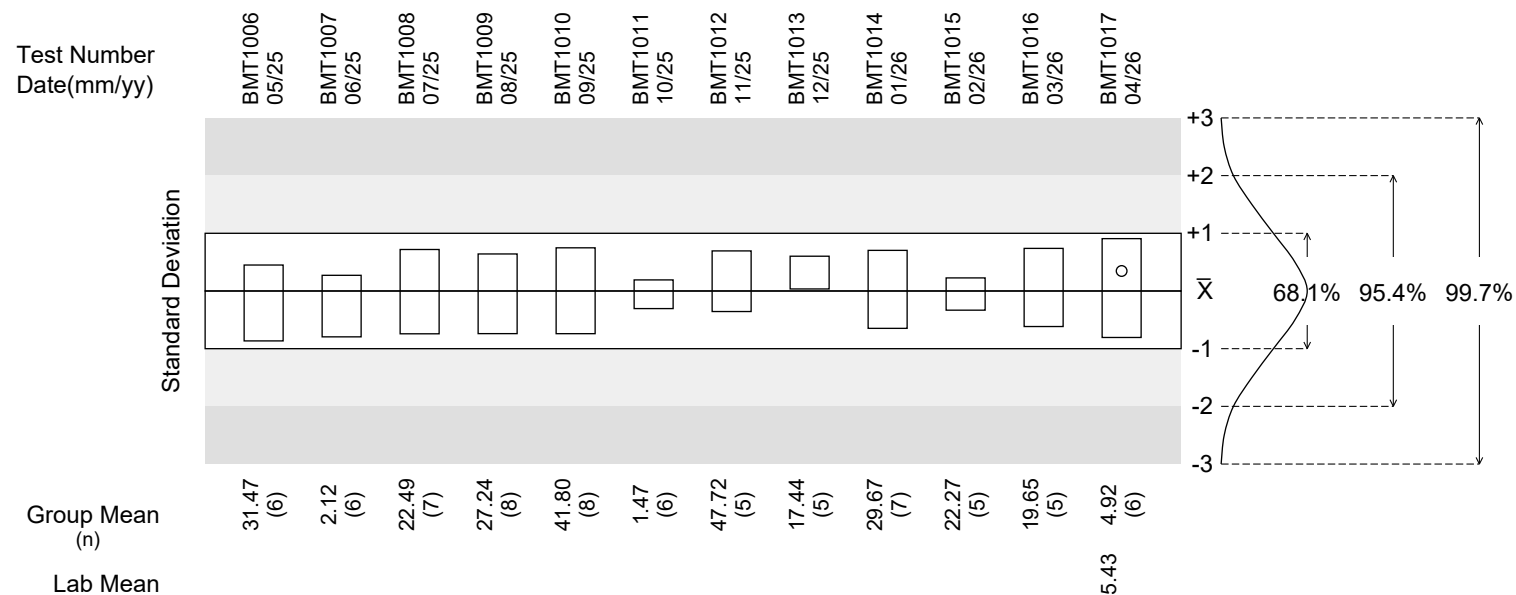
Precision Ratio	0.83	< 2.8
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Current Round	Trend	Bias	Consistency	Rule 1	Rule 2	Rule 3	Rule 4
	NA	NA	NA	0	0	0	0

FREQUENCY DISTRIBUTION



HISTORICAL PERFORMANCE



**PARAMETER REPORT: Chromium, Cr, Dry mg/kg****BMT1017**, BMT, Base Metals, Total Digest (40) 200 mesh (75um)**Reported Method:** Other**Reported Instrument:** Agilent 7900 ICP-MS-SQ**Reported Ref. Material:** Other

Customer No: 037290

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STATISTICS

Lab Value	
Mean	SD
438.23	4.907

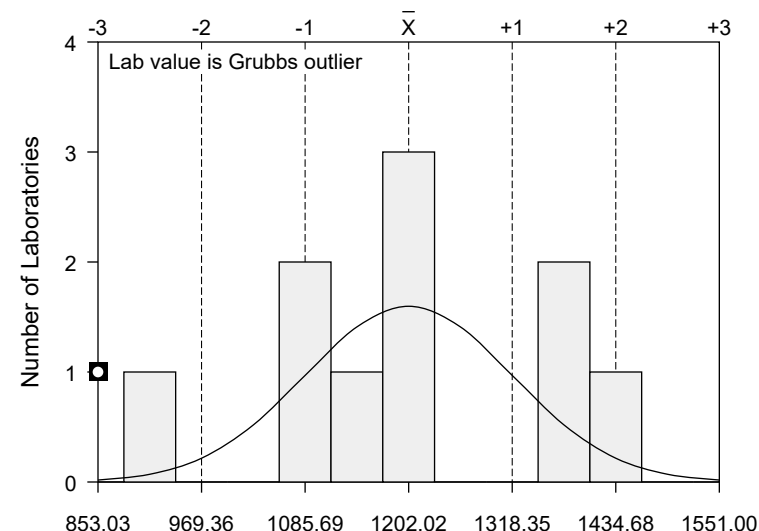
Group Value		
Mean	SD	n
1202.02	116.330	8

Accuracy	Precision Estimates		Precision Factors	
	Laboratory	Ref. Standard		Group
	Mean Difference	within +/- 232.66	Repeatability (r)	106.125
	Z-Score	within +/- 2.00	Reproducibility (R)	334.255
Relative Difference(%)		within +/- 19.36	Confidence Interval	97.269

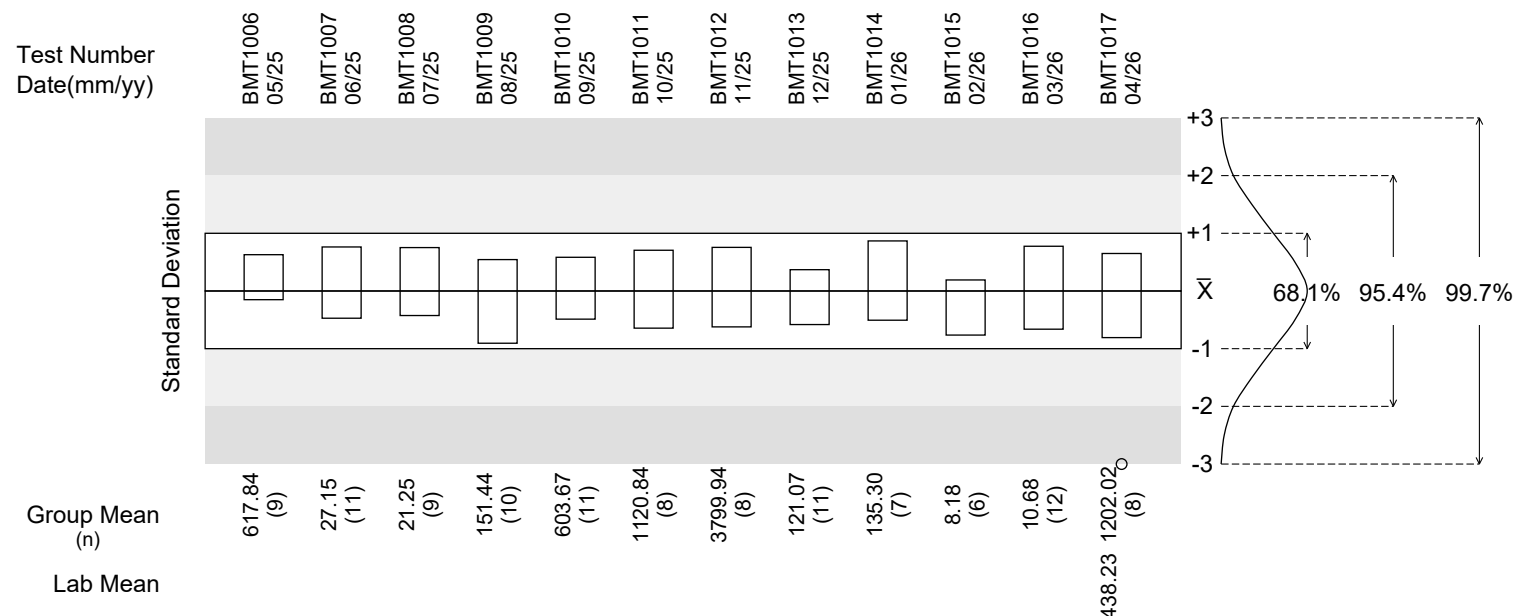
Precision Ratio	
0.13	< 2.8

Current Round	Trend	Bias	Consistency	Rule 1	Rule 2	Rule 3	Rule 4
	NA	NA	NA	1	0	0	0

FREQUENCY DISTRIBUTION



HISTORICAL PERFORMANCE



**PARAMETER REPORT: Hafnium, Hf, Dry mg/kg****BMT1017**, BMT, Base Metals, Total Digest (40) 200 mesh (75um)**Reported Method:** Other**Reported Instrument:** Agilent 7900 ICP-MS-SQ**Reported Ref. Material:** Other

Customer No: 037290

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STATISTICS

Lab Value	
Mean	SD
0.08	0.021

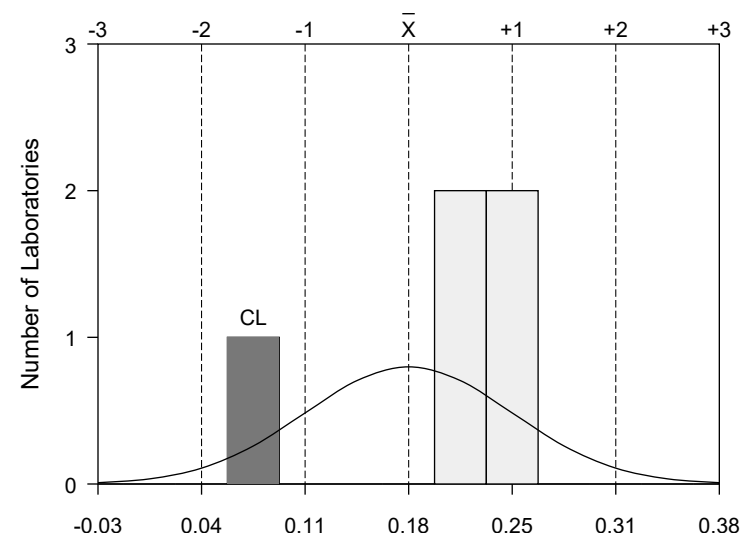
Group Value		
Mean	SD	n
0.18	0.069	4

Accuracy	Precision Estimates		Precision Factors	
	Laboratory	Ref. Standard		Group
	Mean Difference	within +/- 0.14	Repeatability (r)	0.038
	Z-Score	within +/- 2.00	Reproducibility (R)	0.195
Relative Difference(%)		within +/- 77.78	Confidence Interval	0.110

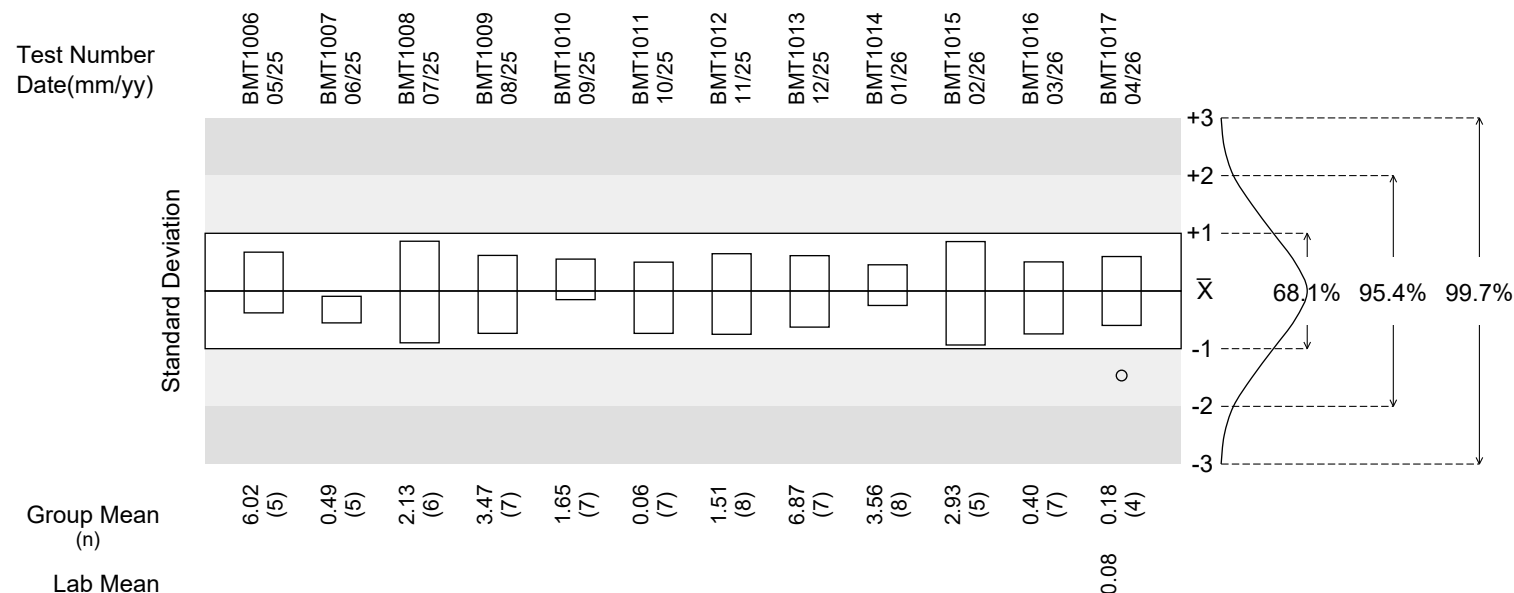
Precision Ratio	
	1.55
	< 2.8

Current Round	Trend	Bias	Consistency	Rule 1	Rule 2	Rule 3	Rule 4
	NA	NA	NA	0	0	0	0

FREQUENCY DISTRIBUTION



HISTORICAL PERFORMANCE



PARAMETER REPORT: Lanthanum, La, Dry mg/kg

BMT1017, BMT, Base Metals, Total Digest (40) 200 mesh (75um)

Reported Method: Other

Reported Instrument: Agilent 7900 ICP-MS-SQ

Reported Ref. Material: Other

Customer No: 037290

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STATISTICS

Lab Value	
Mean	SD
3.03	0.064

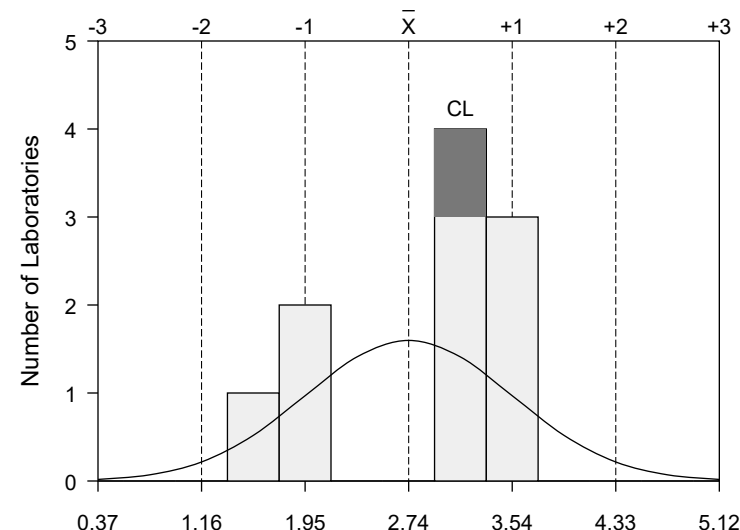
Group Value		
Mean	SD	n
2.74	0.792	8

Accuracy	Precision Estimates		Precision Factors	
	Laboratory	Ref. Standard		Group
	Mean Difference	within +/- 1.58	Repeatability (r)	0.184
	Z-Score	within +/- 2.00	Reproducibility (R)	2.221
Relative Difference(%)	10.28	within +/- 57.66	Confidence Interval	0.662

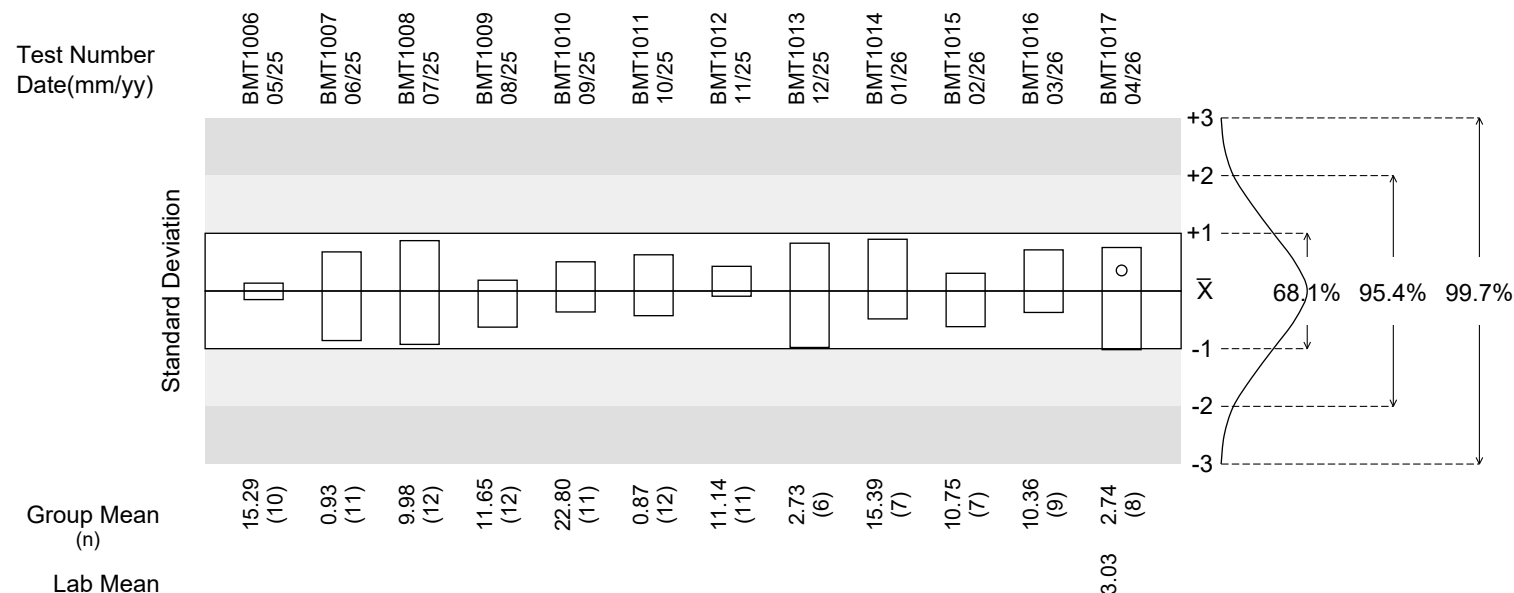
Precision Ratio	0.97	< 2.8
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Current Round	Trend	Bias	Consistency	Rule 1	Rule 2	Rule 3	Rule 4
	NA	NA	NA	0	0	0	0

FREQUENCY DISTRIBUTION



HISTORICAL PERFORMANCE



PARAMETER REPORT: Manganese, Mn, Dry mg/kg

BMT1017, BMT, Base Metals, Total Digest (40) 200 mesh (75um)

Reported Method: Other

Reported Instrument: Agilent 7900 ICP-MS-SQ

Reported Ref. Material: Other

Customer No: 037290

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STATISTICS

Lab Value	
Mean	SD
1117	14.85

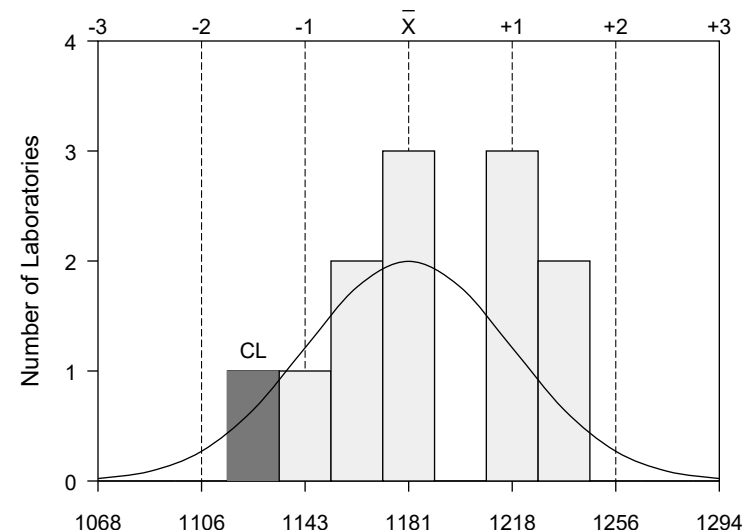
Group Value		
Mean	SD	n
1181	37.58	10

Accuracy	Precision Estimates		Precision Factors	
	Laboratory	Ref. Standard	Group	
	Mean Difference	within +/- 75	Repeatability (r)	40.202
	Z-Score	within +/- 2.00	Reproducibility (R)	109.008
Relative Difference(%)	Relative Difference(%)	within +/- 6.35	Confidence Interval	26.884

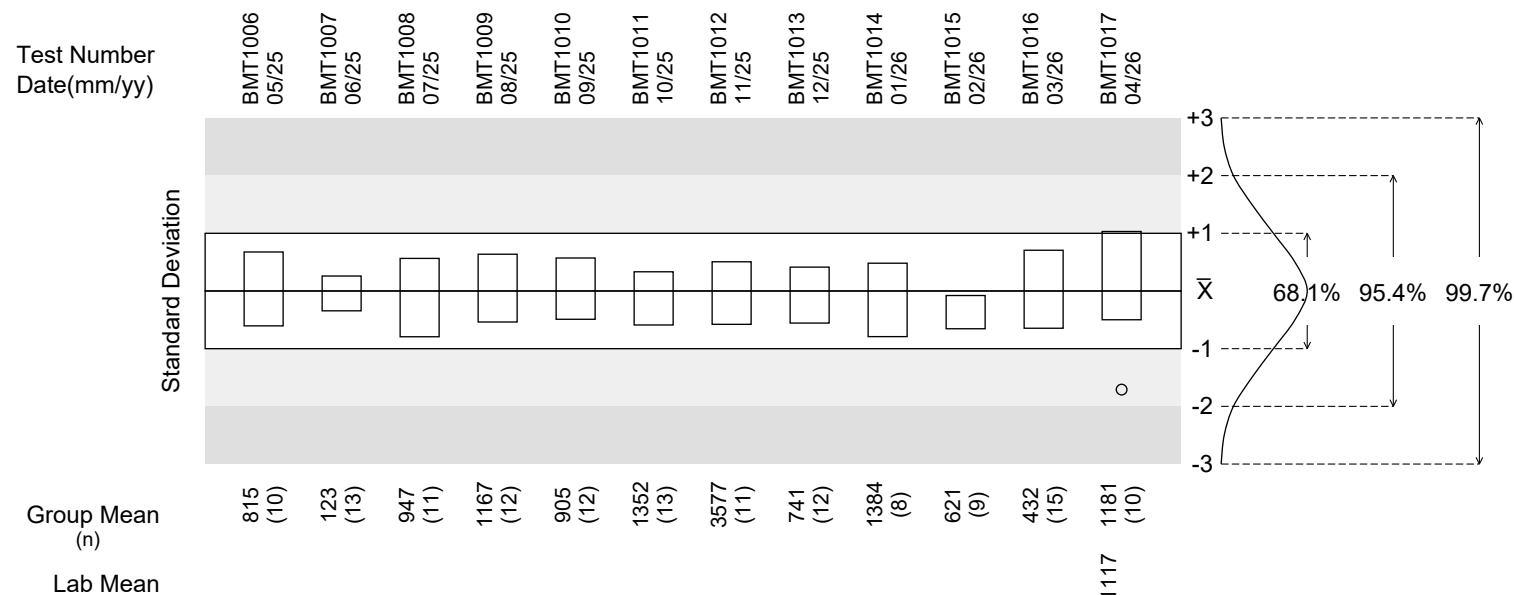
Precision Ratio	1.03	< 2.8
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Current Round	Trend	Bias	Consistency	Rule 1	Rule 2	Rule 3	Rule 4
	NA	NA	NA	0	0	0	0

FREQUENCY DISTRIBUTION



HISTORICAL PERFORMANCE



**PARAMETER REPORT: Molybdenum, Mo, Dry mg/kg****BMT1017**, BMT, Base Metals, Total Digest (40) 200 mesh (75um)**Reported Method:** Other**Reported Instrument:** Agilent 7900 ICP-MS-SQ**Reported Ref. Material:** Other

Customer No: 037290

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STATISTICS

Lab Value	
Mean	SD
0.29	0.021

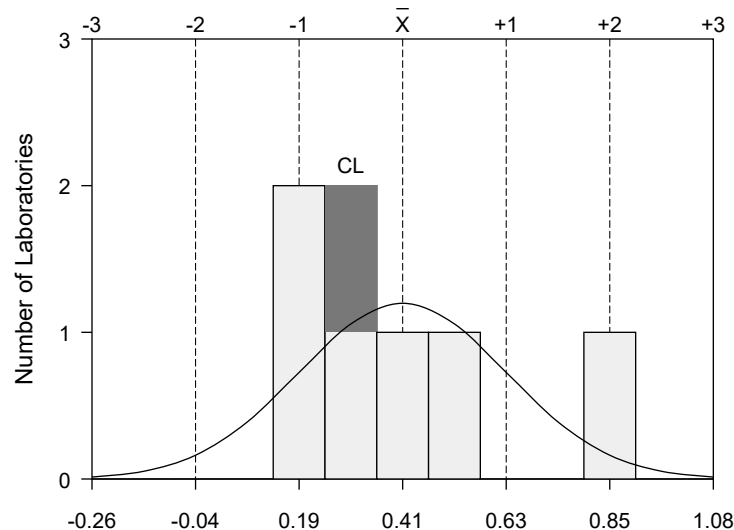
Group Value		
Mean	SD	n
0.41	0.223	6

Accuracy	Precision Estimates		Precision Factors	
	Laboratory	Ref. Standard		Group
	Mean Difference	within +/- 0.45	Repeatability (r)	0.063
	Z-Score	within +/- 2.00	Reproducibility (R)	0.625
Relative Difference(%)		within +/- 109.76	Confidence Interval	0.234

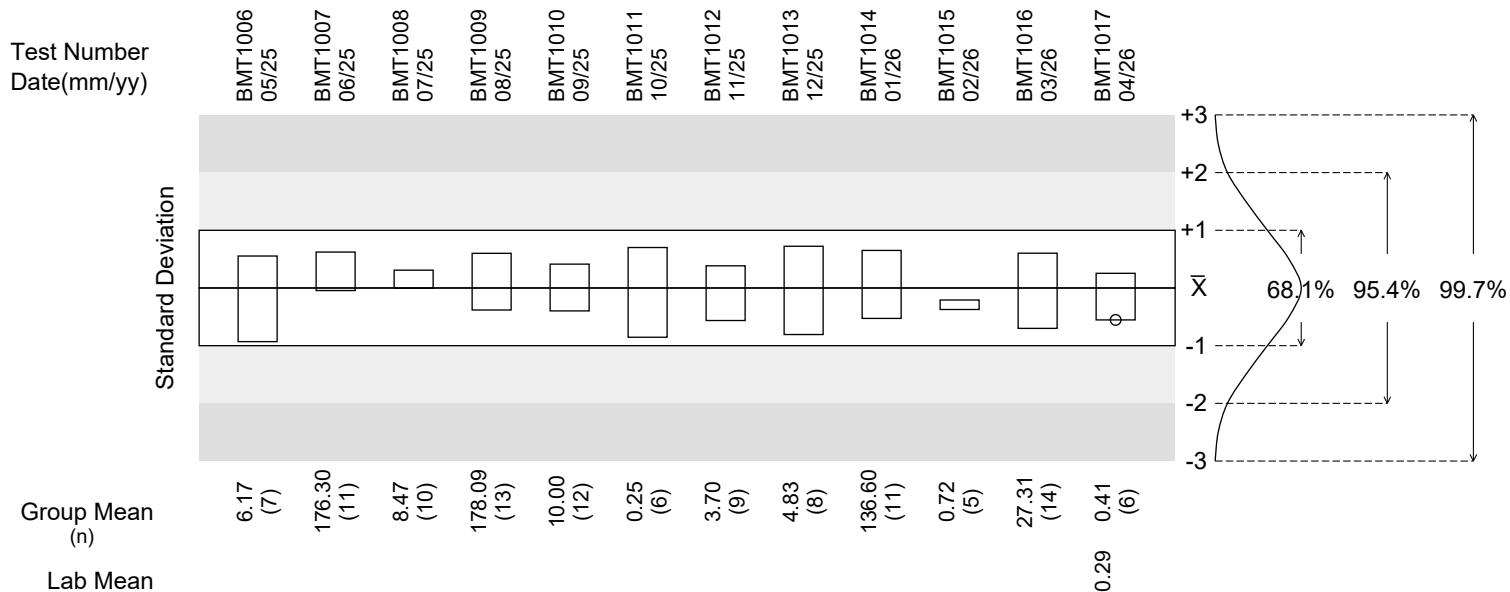
Precision Ratio	
0.95	< 2.8

Current Round	Trend	Bias	Consistency	Rule 1	Rule 2	Rule 3	Rule 4
	NA	NA	NA	0	0	0	0

FREQUENCY DISTRIBUTION



HISTORICAL PERFORMANCE



PARAMETER REPORT: Niobium, Nb, Dry mg/kg

BMT1017, BMT, Base Metals, Total Digest (40) 200 mesh (75um)

Reported Method: Other

Reported Instrument: Agilent 7900 ICP-MS-SQ

Reported Ref. Material: Other

Customer No: 037290

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STATISTICS

Lab Value	
Mean	SD
0.21	0.021

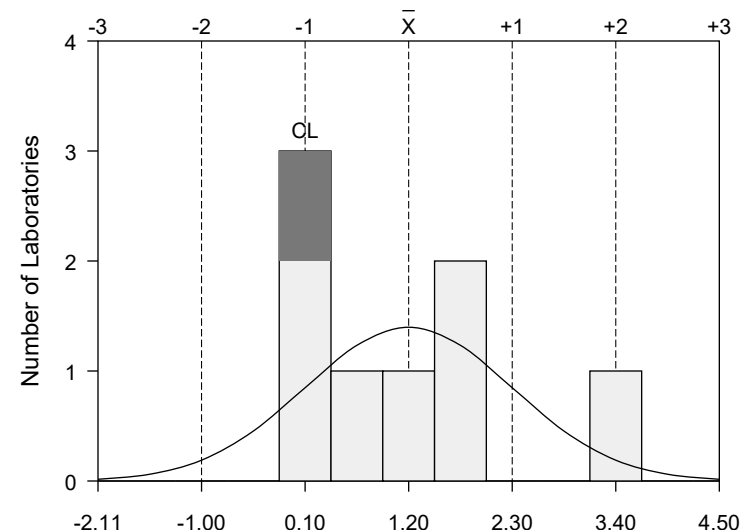
Group Value		
Mean	SD	n
1.20	1.101	7

Accuracy	Precision Estimates		Precision Factors	
	Laboratory	Ref. Standard		Group
	Mean Difference	within +/- 2.20	Repeatability (r)	0.108
	Z-Score	within +/- 2.00	Reproducibility (R)	3.084
Relative Difference(%)		within +/- 183.33	Confidence Interval	1.018

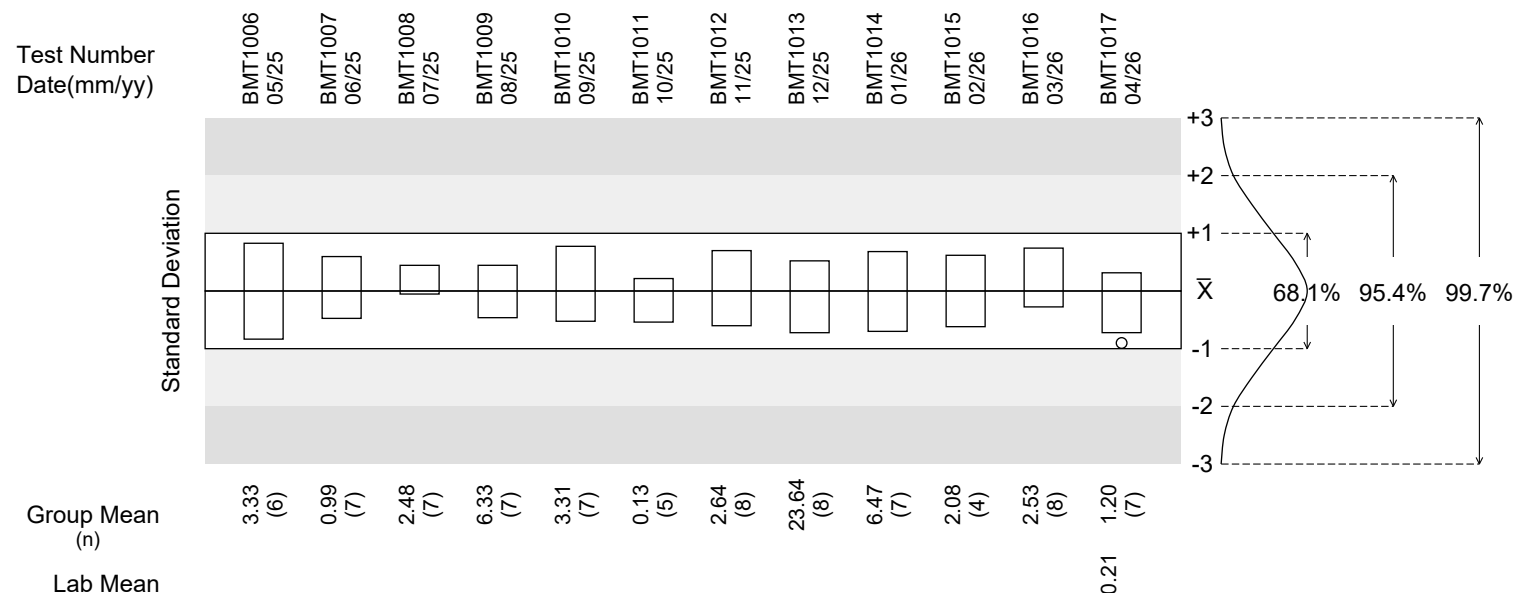
Precision Ratio	0.55	< 2.8
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Current Round	Trend	Bias	Consistency	Rule 1	Rule 2	Rule 3	Rule 4
	NA	NA	NA	0	0	0	0

FREQUENCY DISTRIBUTION



HISTORICAL PERFORMANCE



**PARAMETER REPORT: Strontium, Sr, Dry mg/kg****BMT1017**, BMT, Base Metals, Total Digest (40) 200 mesh (75um)**Reported Method:** Other**Reported Instrument:** Agilent 7900 ICP-MS-SQ**Reported Ref. Material:** Other

Customer No: 037290

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STATISTICS

Lab Value	
Mean	SD
343.09	4.101

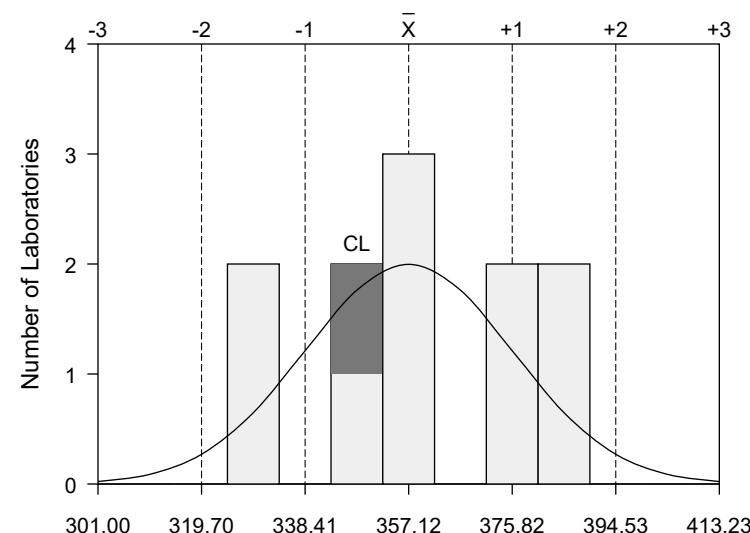
Group Value		
Mean	SD	n
357.12	18.706	10

Accuracy	Precision Estimates		Precision Factors	
	Laboratory	Ref. Standard		Group
	Mean Difference	within +/- 37.41	Repeatability (r)	16.646
	Z-Score	within +/- 2.00	Reproducibility (R)	53.683
Relative Difference(%)		within +/- 10.48	Confidence Interval	13.381

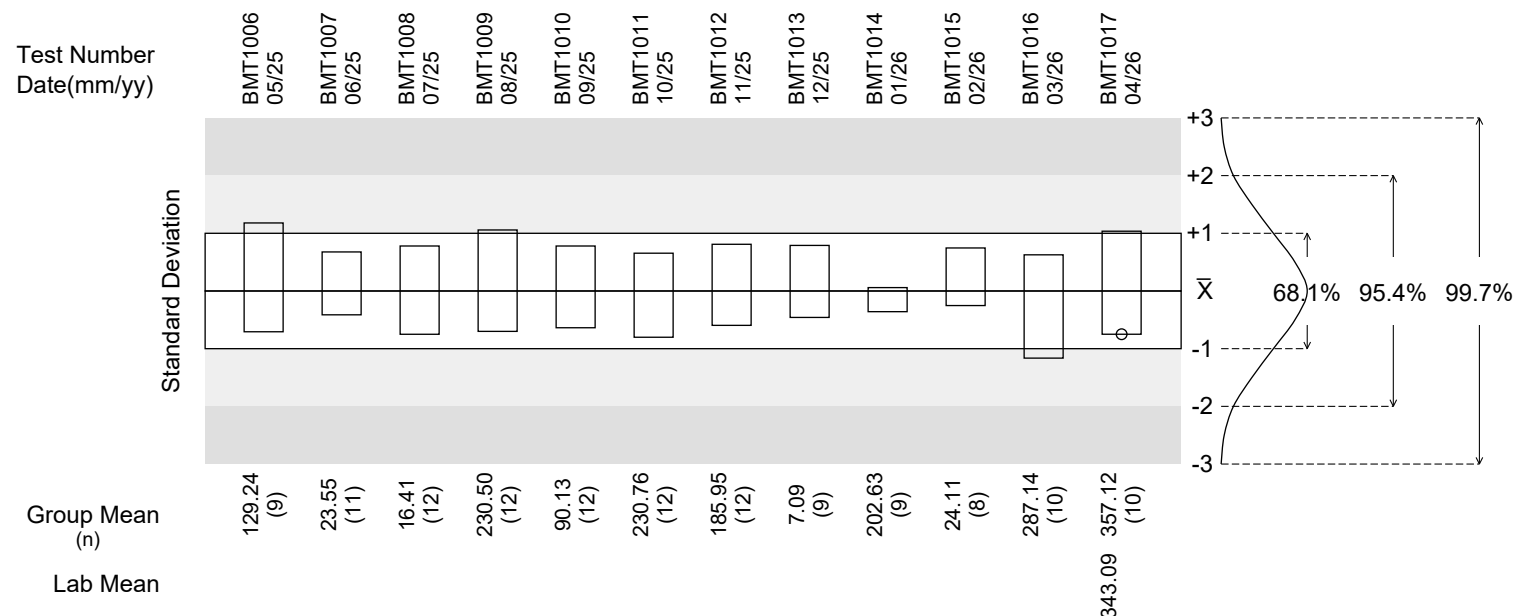
Precision Ratio	0.69	< 2.8
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Current Round	Trend	Bias	Consistency	Rule 1	Rule 2	Rule 3	Rule 4
	NA	NA	NA	0	0	0	0

FREQUENCY DISTRIBUTION



HISTORICAL PERFORMANCE



PARAMETER REPORT: Thallium, Tl, Dry mg/kg

BMT1017, BMT, Base Metals, Total Digest (40) 200 mesh (75um)

Reported Method: Other

Reported Instrument: Agilent 7900 ICP-MS-SQ

Reported Ref. Material: Other

Customer No: 037290

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STATISTICS

Lab Value	
Mean	SD
0.06	0.007

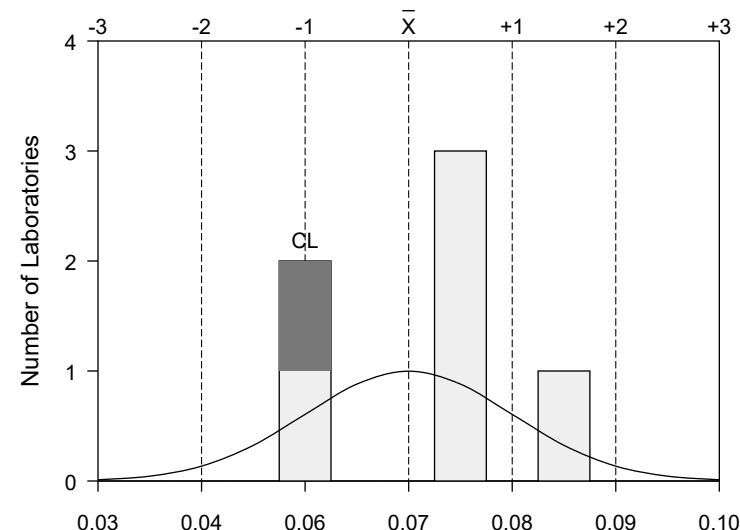
Group Value		
Mean	SD	n
0.07	0.011	5

Accuracy	Precision Estimates		Precision Factors	
	Laboratory	Ref. Standard		Group
	Mean Difference	within +/- 0.02	Repeatability (r)	0.013
	Z-Score	within +/- 2.00	Reproducibility (R)	0.032
Relative Difference(%)		within +/- 28.57	Confidence Interval	0.013

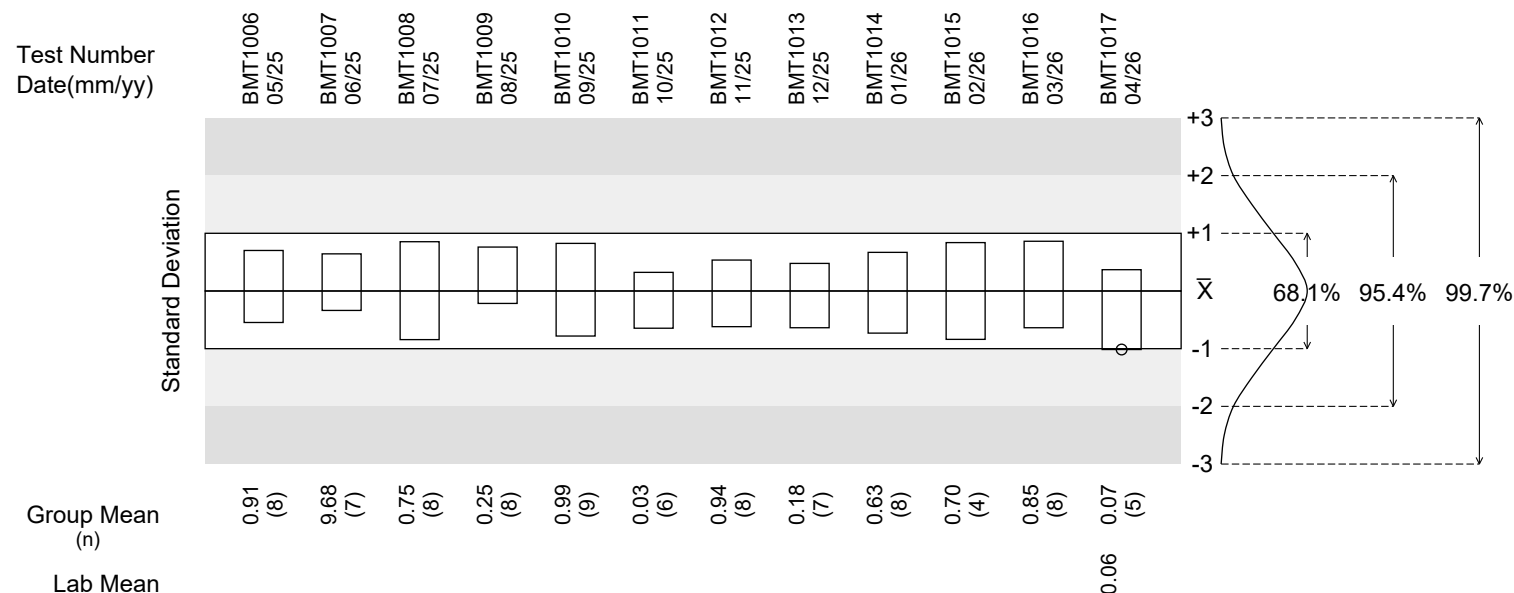
Precision Ratio	1.58	< 2.8
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Current Round	Trend	Bias	Consistency	Rule 1	Rule 2	Rule 3	Rule 4
	NA	NA	NA	0	0	0	0

FREQUENCY DISTRIBUTION



HISTORICAL PERFORMANCE



**PARAMETER REPORT: Thorium, Th, Dry mg/kg****BMT1017**, BMT, Base Metals, Total Digest (40) 200 mesh (75um)**Reported Method:** Other**Reported Instrument:** Agilent 7900 ICP-MS-SQ**Reported Ref. Material:** Other

Customer No: 037290

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Version 1

STATISTICS

Lab Value	
Mean	SD
0.48	0.007

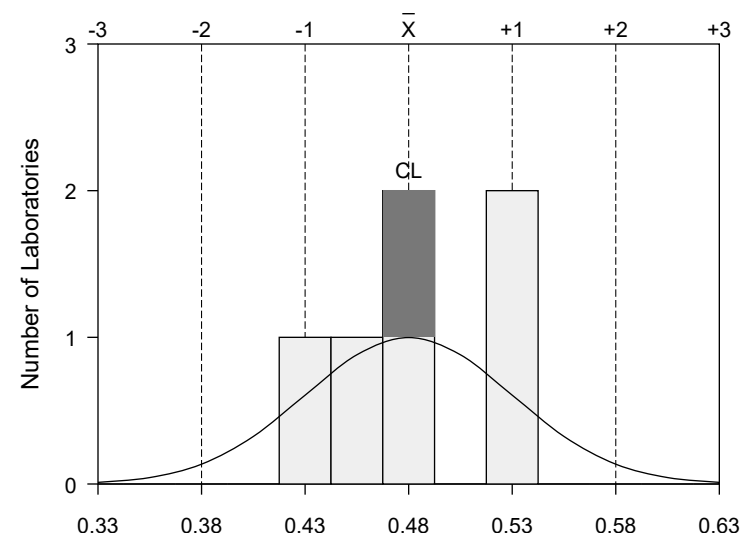
Group Value		
Mean	SD	n
0.48	0.050	5

Accuracy	Precision Estimates		Precision Factors	
	Laboratory	Ref. Standard		Group
	Mean Difference	within +/- 0.10	Repeatability (r)	0.028
	Z-Score	within +/- 2.00	Reproducibility (R)	0.142
Relative Difference(%)		within +/- 20.83	Confidence Interval	0.062

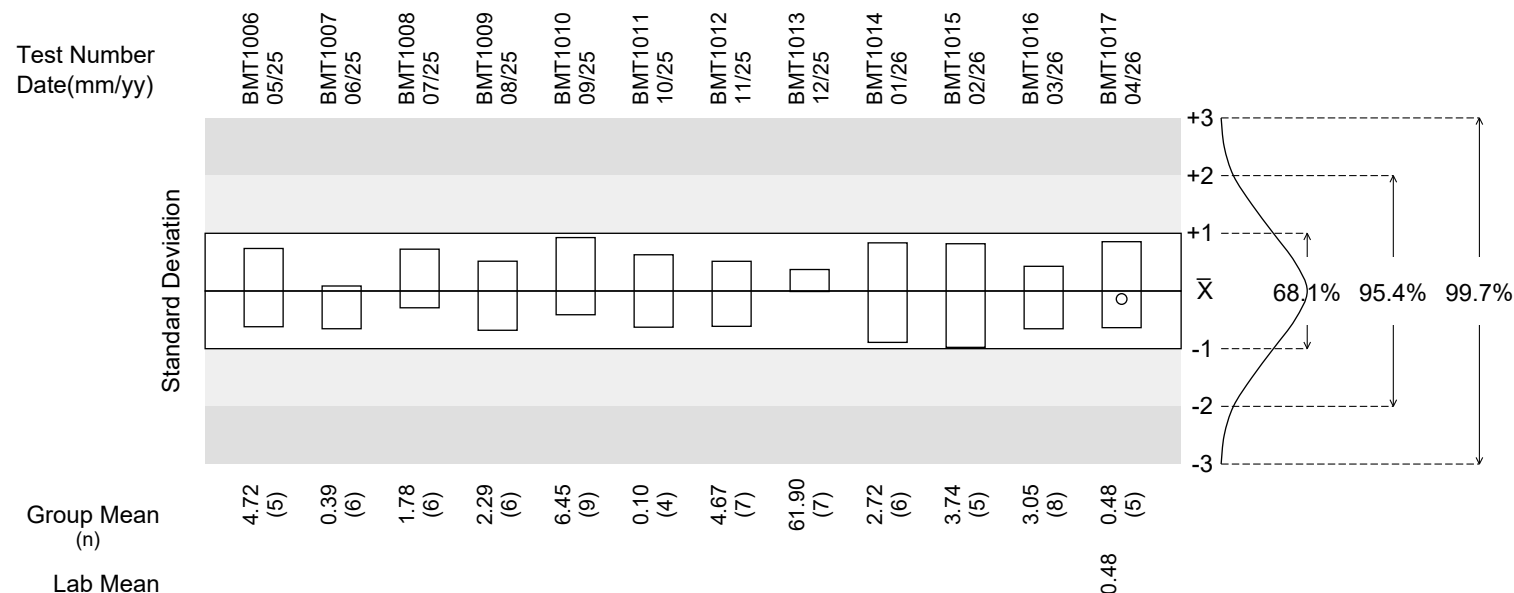
Precision Ratio	0.71	< 2.8
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Current Round	Trend	Bias	Consistency	Rule 1	Rule 2	Rule 3	Rule 4
	NA	NA	NA	0	0	0	0

FREQUENCY DISTRIBUTION



HISTORICAL PERFORMANCE



**PARAMETER REPORT: Uranium, U, Dry mg/kg****BMT1017**, BMT, Base Metals, Total Digest (40) 200 mesh (75um)**Reported Method:** Other**Reported Instrument:** Agilent 7900 ICP-MS-SQ**Reported Ref. Material:** Other

Customer No: 037290

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STATISTICS

Lab Value	
Mean	SD
0.11	0.007

Group Value		
Mean	SD	n
0.12	0.000	3

Accuracy
Mean Difference
Z-Score
Relative Difference(%)

Laboratory
-0.02
0.00
-12.50

Precision Estimates

Ref. Standard
within +/- 0.00
within +/- 2.00
within +/- 0

Precision Factors

Group
Repeatability (r)
Reproducibility (R)
Confidence Interval
0.000
0.000
0.000

Precision
Ratio

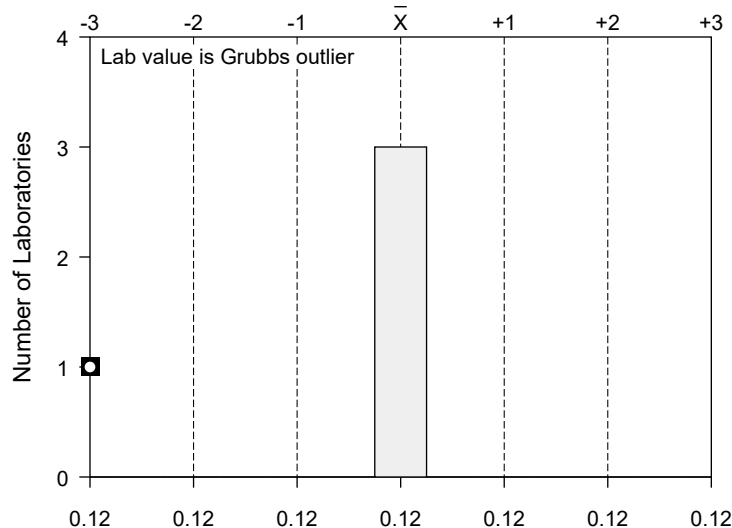
0.00

< 2.8

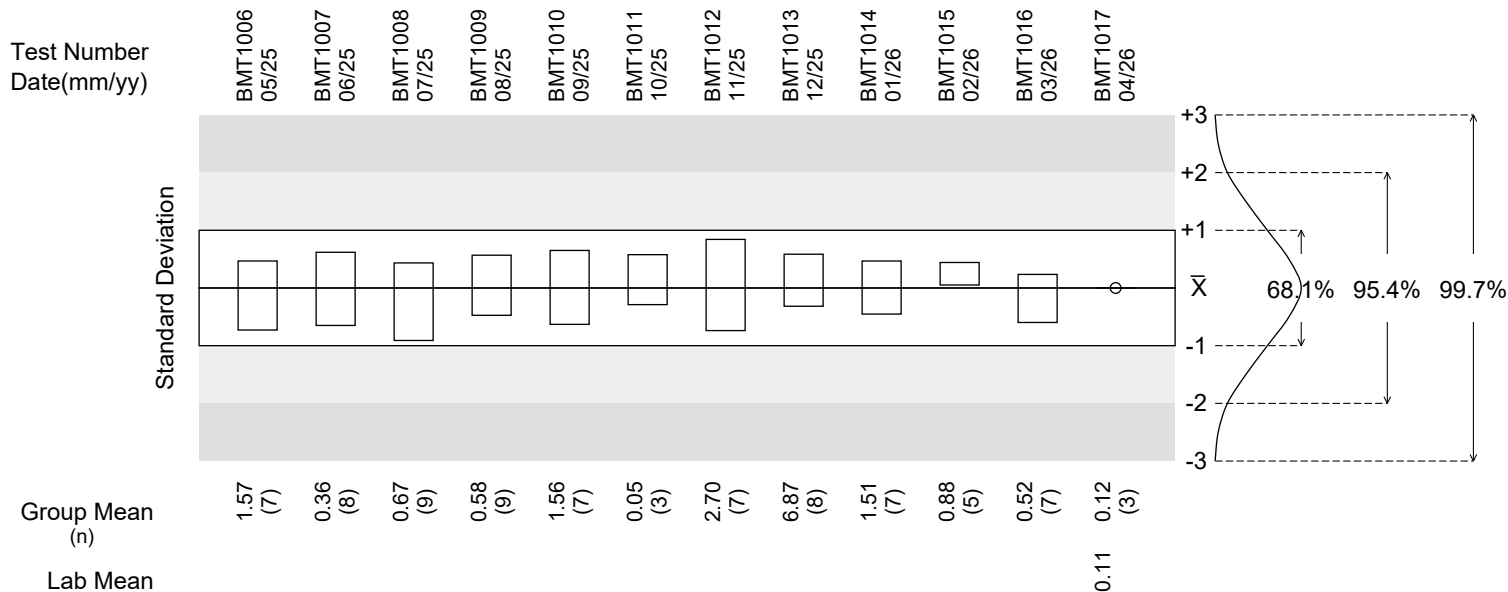
Current Round

Trend	Bias	Consistency	Rule 1	Rule 2	Rule 3	Rule 4
NA	NA	NA	0	0	0	0

FREQUENCY DISTRIBUTION



HISTORICAL PERFORMANCE



**PARAMETER REPORT: Vanadium, V, Dry mg/kg****BMT1017**, BMT, Base Metals, Total Digest (40) 200 mesh (75um)**Reported Method:** Other**Reported Instrument:** Agilent 7900 ICP-MS-SQ**Reported Ref. Material:** Other

Customer No: 037290

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Version 1

STATISTICS

Lab Value	
Mean	SD
36.76	1.556

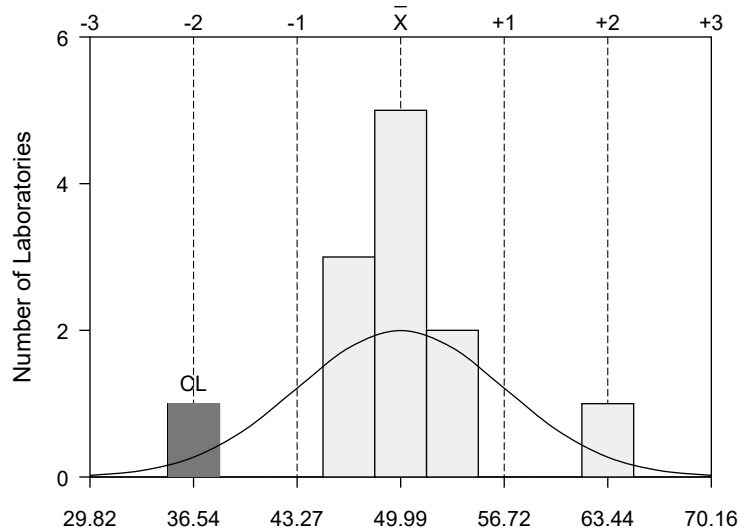
Group Value		
Mean	SD	n
49.99	6.725	10

Accuracy	Precision Estimates		Precision Factors	
	Laboratory	Ref. Standard		Group
	Mean Difference	within +/- 13.45	Repeatability (r)	2.327
	Z-Score	within +/- 2.00	Reproducibility (R)	18.900
Relative Difference(%)		within +/- 26.91	Confidence Interval	4.810

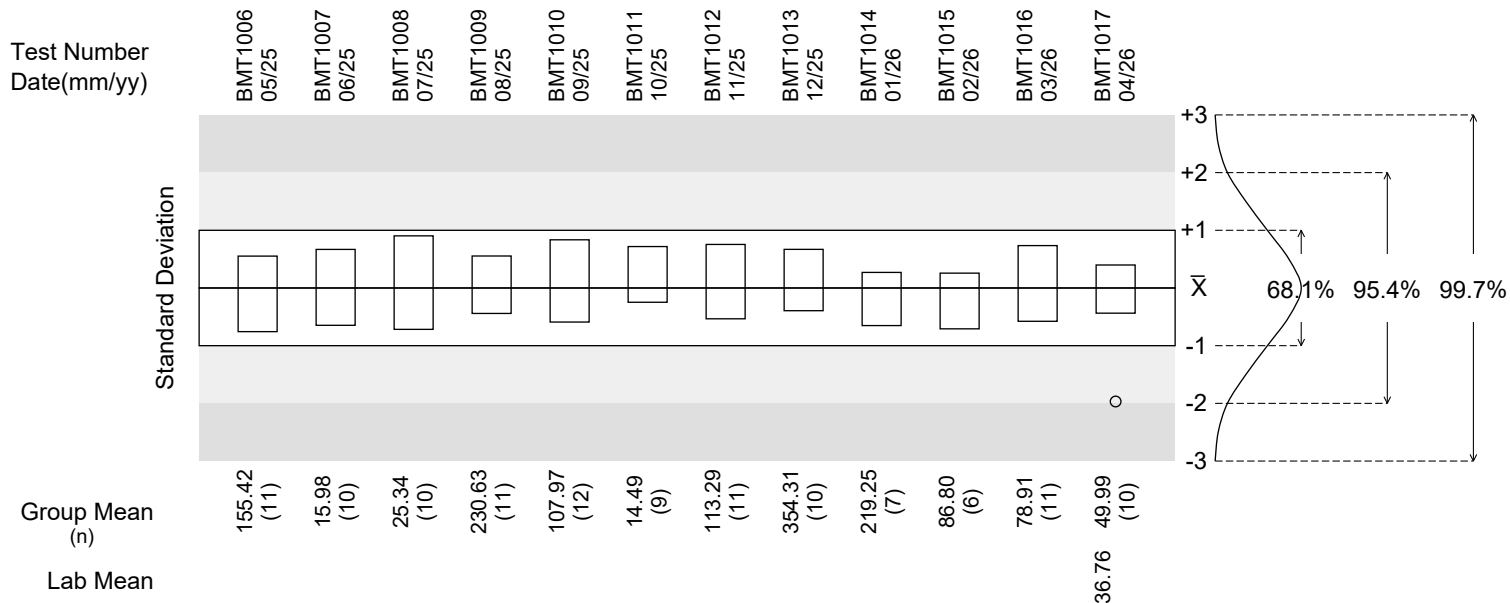
Precision Ratio	1.87	< 2.8
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Current Round	Trend	Bias	Consistency	Rule 1	Rule 2	Rule 3	Rule 4
	NA	NA	NA	0	0	0	0

FREQUENCY DISTRIBUTION



HISTORICAL PERFORMANCE



PARAMETER REPORT: Zirconium, Zr, Dry mg/kg

BMT1017, BMT, Base Metals, Total Digest (40) 200 mesh (75um)

Reported Method: Other

Reported Instrument: Agilent 7900 ICP-MS-SQ

Reported Ref. Material: Other

Customer No: 037290

Servicio Geologico Colombiano

SGC - Bogota Laboratory CO

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STATISTICS

Lab Value	
Mean	SD
0.38	0.057

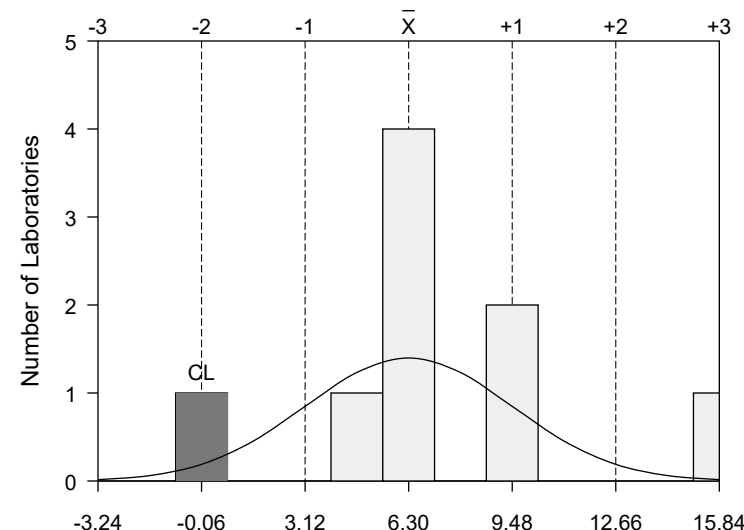
Group Value		
Mean	SD	n
6.30	3.181	7

Accuracy	Precision Estimates		Precision Factors	
	Laboratory	Ref. Standard		Group
	Mean Difference	within +/- 6.36	Repeatability (r)	0.125
	Z-Score	within +/- 2.00	Reproducibility (R)	8.907
Relative Difference(%)		within +/- 100.95	Confidence Interval	2.942

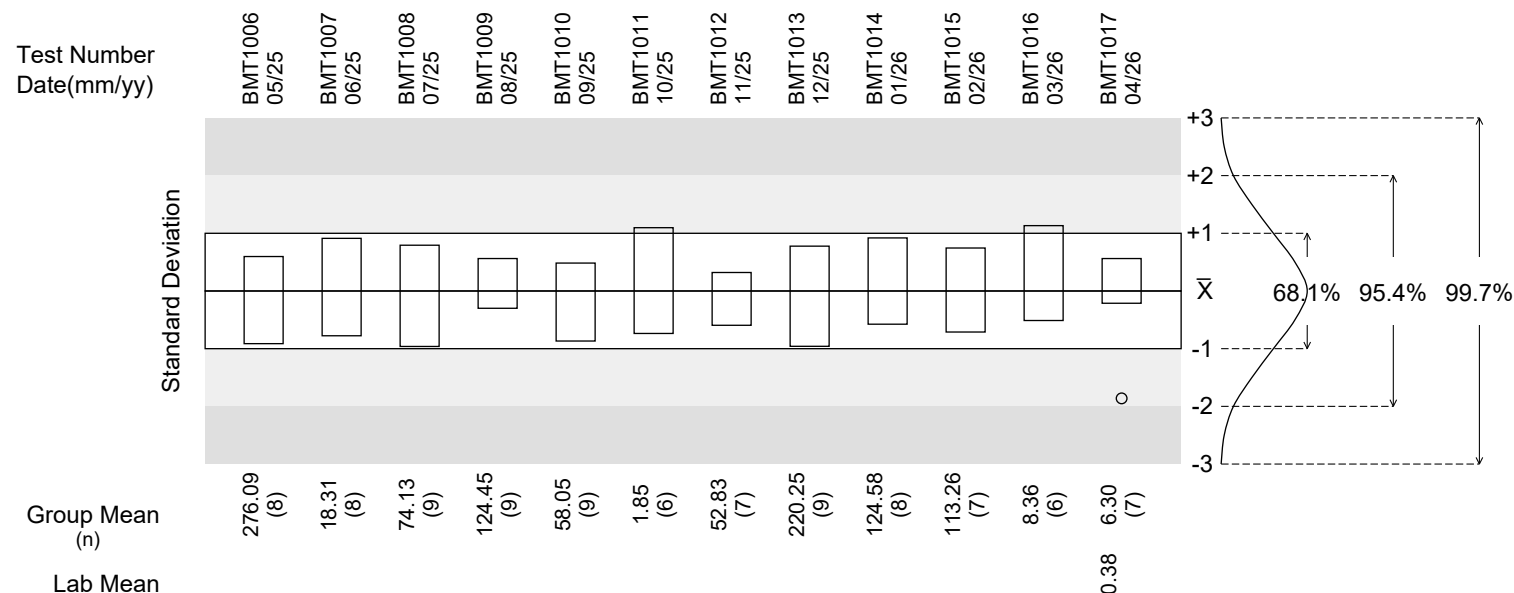
Precision Ratio	1.26	< 2.8
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Current Round	Trend	Bias	Consistency	Rule 1	Rule 2	Rule 3	Rule 4
	NA	NA	NA	0	0	0	0

FREQUENCY DISTRIBUTION



HISTORICAL PERFORMANCE





PERFORMANCE SUMMARY

BMT1017, BMT, Base Metals, Total Digest (40) 200 mesh (75um)
Material Source: Australia

Customer No: 037290
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BMT1017			Historical Performance										
			Average Value										
			Accuracy			Trend	Bias	Consistency	Rule Violations				
Z-Score	Percentile	n	Z-Score	Percentile					1	2	3	4	
Copper, Cu, Dry	-1.46	27	1	1.46	27	NA	NA	NA	0	0	0	0	
Lead, Pb, Dry	-0.18	75	1	0.18	75	NA	NA	NA	0	0	0	0	
Zinc, Zn, Dry	-1.74	7	1	1.74	7	NA	NA	NA	0	0	0	0	
Silver, Ag, Dry	0.08	92	1	0.08	92	NA	NA	NA	0	0	0	0	
Nickel, Ni, Dry	-0.26	85	1	0.26	85	NA	NA	NA	0	0	0	0	
Cobalt, Co, Dry	-2.07	7	1	2.07	7	NA	NA	NA	0	0	0	0	
Arsenic, As, Dry	-1.12	31	1	1.12	31	NA	NA	NA	0	0	0	0	
Barium, Ba, Dry	-0.57	40	1	0.57	40	NA	NA	NA	0	0	0	0	
Beryllium, Be, Dry	1.18	22	1	1.18	22	NA	NA	NA	0	0	0	0	
Bismuth, Bi, Dry	-1.29	22	1	1.29	22	NA	NA	NA	0	0	0	0	
Cadmium, Cd, Dry	-0.20	90	1	0.20	90	NA	NA	NA	0	0	0	0	
Cerium, Ce, Dry	0.35	83	1	0.35	83	NA	NA	NA	0	0	0	0	
Chromium, Cr, Dry	-6.57	11	1	3.00	11	NA	NA	NA	1	0	0	0	
Hafnium, Hf, Dry	-1.47	25	1	1.47	25	NA	NA	NA	0	0	0	0	
Lanthanum, La, Dry	0.36	100	1	0.36	100	NA	NA	NA	0	0	0	0	
Manganese, Mn, Dry	-1.71	10	1	1.71	10	NA	NA	NA	0	0	0	0	
Molybdenum, Mo, Dry	-0.55	50	1	0.55	50	NA	NA	NA	0	0	0	0	
Niobium, Nb, Dry	-0.90	43	1	0.90	43	NA	NA	NA	0	0	0	0	
Strontium, Sr, Dry	-0.75	60	1	0.75	60	NA	NA	NA	0	0	0	0	
Thallium, Tl, Dry	-1.01	60	1	1.01	60	NA	NA	NA	0	0	0	0	

Percentiles

Percentiles range from 0 to 100.
Larger numbers indicate better performance.

Legend

A = Acceptable
M = Marginal
U = Unacceptable
n.a. = Not applicable

Indications that Process is Not in Control

Rule 1: A single point falls outside three-sigma control limits.
Rule 2: At least 2 out of 3 successive values fall on the same side of, and more than two-sigma away from, the central line.
Rule 3: At least 4 out of 5 successive values fall on the same side of, and more than one-sigma away from, the central line.
Rule 4: At least 8 successive values fall on the same side of the central line.

**PERFORMANCE SUMMARY**

BMT1017, BMT, Base Metals, Total Digest (40) 200 mesh (75um)
Material Source: Australia

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	BMT1017		Historical Performance									
			Average Value									
			n	Accuracy		Trend	Bias	Consistency	Rule Violations			
	Z-Score	Percentile		Z-Score	Percentile				1	2	3	4
Thorium, Th, Dry	-0.14	100	1	0.14	100	NA	NA	NA	0	0	0	0
Uranium, U, Dry	0.00	100	1	0.00	100	NA	NA	NA	0	0	0	0
Vanadium, V, Dry	-1.97	20	1	1.97	20	NA	NA	NA	0	0	0	0
Zirconium, Zr, Dry	-1.86	25	1	1.86	25	NA	NA	NA	0	0	0	0

Percentiles

Percentiles range from 0 to 100.
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Legend

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Indications that Process is Not in Control

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PERFORMANCE SUMMARY

BMT1017, BMT, Base Metals, Total Digest (40) 200 mesh (75um)

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END OF REPORT