

COAL CONCEPTS PROFICIENCY TESTING

GENERAL ANALYSIS SAMPLE

REPORT – ONE HUNDRED AND SEVENTY-EIGHT

Revision 00

Final report

DATE ISSUED 31st AUGUST 2026

PARTICIPANT

LABORATORY CODE: a



R BABOOLAL (SCHEME MANAGER)

SCHEME COORDINATOR: S MAMABOLO

Disclaimer: Opinions and interpretations expressed herein are outside the scope of SANAS accreditation

**Moisture in the analysis sample is not included in the SANAS schedule of accreditation as robust statistics cannot be applied.*

Chlorine, Fluorine, Quick ash, ASTM ash and ASTM Volatiles is not included in the scope of accreditation.

THINKING QUALITY, QUALITY THINKING

REGISTRATION NUMBER: 2006/149731/23 (RMB INDUSTRIAL STATIONERS cc t/a)

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EXECUTIVE SUMMARY

1. Ninety samples were sent to participants with 90 results submitted timeously.
2. The total number of outliers detected were as follows (dry base):
 - Quick Ash x 1
 - Volatile matter x 8
 - Calorific value x 3
3. Chlorine, Fluorine, ASTM Ash, ASTM Volatile Matter participants were insufficient to apply robust statistical calculations.
4. Trending for your laboratory is as follows:

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Dear Participant

RE: PROFICIENCY TESTING RESULTS FOR THE MONTH OF August 2026

Thank you for your participation in the Coal Concepts proficiency testing scheme.

Your laboratory code is as per the cover page.

All results are totally confidential. Any results in **Bold, Italics and Underlined** are outliers. Where applicable, the most extreme outliers have been eliminated from calculations using the Grubbs estimate for outliers. Robust statistics has been applied where possible. Analysis results have been reported on air dry and dry base. The dry base results have been used to calculate the z-scores. The z-scores are calculated by subtracting the average from the participant result then dividing by the standard deviation. **Note: All decimals are carried in the z-score calculation and only rounded off at the end of the calculation.**

Please take note of the following:

1. Z-scores between -1 and +1 is deemed acceptable
2. Z-scores between -2 and -3 should serve as a warning that the analysis result could get worse
3. Z-scores between +2 and +3 should also serve as a warning that analysis results could get worse.
4. Z- scores lower than -3 and exceeding +3 should warrant an investigation
5. Compare your result to the robust average which will be the assigned value. The measurement of uncertainty (UoM) of the results is also stated.

6. Z-Score calculation : $z\ score = \frac{(Lab\ result - Average\ result)}{Standard\ Deviation}$

7. Measurement protocols (SANAS R80, ISO/IEC 17043:2023, clause 7.1.2); Analysis accredited parameters can be carried out using techniques as follows:

ISO Ash – ISO 1171

ISO Volatile matter – ISO 562

Calorific Value determinations – ISO 1928/ASTM D5865

Total Sulphur Determination – ISO 19579 / ASTM D4239

Phosphorus in Coal – BS 1016/ISO 622/ XRF

CHN – ISO 29541 /ASTM D5373

AFT – ISO 540

8. Five consecutive z-scores above the zero line is considered a positive bias and five consecutive z-scores below the zero line is considered a negative bias. Note that this is guideline/suggestion from Coal Concepts and your quality system requirements may differ.

The Coal Concepts scheme adheres to the requirements of ISO/IEC 17043 – Conformity assessment – General requirements for proficiency testing.

Statistical analysis has been carried out using ISO/IEC 13528-Statistical methods for use in proficiency testing by interlaboratory comparisons, including procedures used to statistically analyse data, establishment of any assigned value, standard deviation and its uncertainty.

Please find results attached together with Z-score trends.

Best Regards

R Baboolal

LIST OF PARTICIPANTS

Africoal	Leon Testing Pakistan
Afisam Dudfield	Mafube Coal
Ağrı İbrahim Çeçen Üniversitesi	Luthando Analytical Services
AH Knight Bultfontein	Matil Lab
AH Knight	Mfulawamanzi
Anglo Greenside (Thungela)	Mincoal Lab- Khanye
Anglo Landau	Mincoal Lab-Phalandwa
Aqua Specto	Mincoal Lab-Ukufisa
ArcelorMittal VDP	Ministry of Energy and Mineral Resources - Kingdom of Jordan
Azuresky Pty LTd	Mitra SK Morocco
Best enough - Cordite	Mitra SK Richards Bay
Best enough 2 Seam	ML Coal
Best enough Laboratory -Springs	Moruple
Best enough NCC	Msobo Coal
Best enough Overlook Alpha	MTA Genel Müdürlüğü
Bestech Zomhlaba Resource Mine -Delmas	Nelson Mandela University
Botswana Power Corp - B Power Station	Nkomati Anthracite-Afrimat
Botswana Power Corporation - A Power Station	Noko Analytical laboratories (Witbank)
Bureau Veritas Inspectorate Laboratories - Alton	Noko Ntshovelo
Bureau Veritas Inspectorate Laboratories - Middelburg	PSB Analytical Services Netherlands
BV Matola Laboratory	Profi Lab Doo
BV Moatize	Rafinerija Naft e Beograd AD
BV Nacala	RC Inspection
Castle Peak Power Station	Richards Bay Minerals
CCIC City Deep	Ronewa Lab
CCIC Richards Bay	Ronewa Lab Gugulethu
celiklerholding	Ronewalab IPP
Coal Connect Lab Services	Ronewa Wescoal
Coal Concepts Richards Bay Lab	Ruvuma Coal (Pty) Ltd
Cotecna Lurco	SA Labs Ihtuba – Botswana
Cotecna Middelburg	SA Labs Ihtuba – Middelburg
Cotecna Mimosa	Sappi
Cotecna Nasonti	SB Mining Solutions - Belfast
Cotecna Phola	Seriti Kriel Colliery
CIGroup	Seriti New Denmark
Department of Energy Philippines	Seriti New Vaal
Dicem	Sibonisiwe Arnot
Ensayos técnicos Labmin SRL-Peru	Sibonisiwe Middelburg
Eskom Arnot	Sibonisiwe Ritvlei
Eskom Camden	Siza Coal Services - Botswana
Eskom Duvha	Siza Coal Services - Kinross
Eskom Erid	Siza Labs sampling & Testing Pty Ltd Zambezi Gas & Coal Mine
Eskom Erid TGA	Siza Leeuwpán
Eskom Grootvlei	Siza Mgayo
Eskom Kendal	Siza Middelburg
Eskom Kriel	Siza Minerals Lab - Gaborone
Eskom Lethabo	Siza NBC
Eskom Majuba	Siza Sasol
Eskom Matimba	Siza Umlalazi
Eskom Matla	Siza WestCoal
Eskom Medupi	South 32 Khutala
Eskom Tutuka	Turkey ELI
Exxaro Matla	UAS Areshomeng
Fauji Fertilizer Bin Qasim Limited	UAS-Bankfontein
General Directorate of Coal Enterprises of Turkey	UAS Botswana
Geological Survey of Tanzania	UAS Hendrina
Geoscience	UAS-Khashani
Glencore BoshoeK	UAS Main Lab
Glencore Lion	UAS Sasol SCS
Glencore Wonderkop	UAS Twistdraai
Gölbasi Kimya Laboratuvarı İşletme Müdürlüğü	UIS
HighVeld Lab	Umlabu processing PTY Ltd
Hwange Colliery	Universal Geominerals Sdn Bhd - Malaysia
Idwala Lime	Vinca Institute - Serbia
Imbally (Pty) Ltd	Vitrovian
Industrial Laboratory Services	Yatagan Termik
Isaiah U. Sta. Ana ITDI-DOST, Philippines	Yildiz Labs - Turkey
IZANLAB LABORATUVARLARI A.Ş.	Ykenerji
İZMİR KÖMÜR LABORATUVARI	
Jindal Kiepersol	
Jindal Mozambique	
Jugoinspekt Belgrade AD Serbia	
KELEBEK KİMYA ÇEVRE LABORATUVARLARI PETROL GIDA	
Laboratory for solid fuels-Mining Institute Belgrade	
Labrite Lab	
Labrite Zanrunix Laboratory	

1. TYPE OF SAMPLE USED

The coal used in this proficiency testing round was bituminous coal.

2. PREPARATION OF SAMPLE

Approximately 1000kg’s of coal with an approximate top size of 50mm was sourced. This was crushed to -4mm using a jaw crusher. The -4mm material was reduced to -212um using a cross-beat pulveriser. The 212 material was sieved using a 212um screen. Any +212um material was pulverised and sieved until all material passed through the 212-um sieve.
All the -212um material was then mixed in a mixing drum for 4 hours.

3. HOMOGENEITY CHECK

There were approximately 114 participants in this round, 10 portions of sample were randomly extracted. These were packaged in their final form i.e. in 200ml sample bottles. The bottles were labelled 1 to 10. The results were as follows:

SAMPLE NO.	TEST PORTION 1	TEST PORTION 2	sample av (Xt)	range (Wt)	range sqd
1	30,65	30,54	30,60	0,11	0,0121
2	30,54	30,67	30,61	0,13	0,0169
3	30,49	30,54	30,52	0,05	0,0025
4	30,55	30,69	30,62	0,14	0,0196
5	30,52	30,42	30,47	0,10	0,0100
6	30,56	30,51	30,54	0,05	0,0025
7	30,53	30,73	30,63	0,20	0,0400
8	30,58	30,66	30,62	0,08	0,0064
9	30,48	30,61	30,55	0,13	0,0169
10	30,71	30,58	30,65	0,13	0,0169
GENERAL AVERAGE			30,58		
STANDARD DEVIATION			0,058		
WITHIN SAMPLE STANDARD DEVIATION			0,085		
BETWEEN SAMPLE STANDARD DEVIATION			0,015		

The between sample standard deviation must be $\leq 0.3 \times \sigma$

(σ = std deviation for the proficiency assessment)

$\sigma = 0.612$ was used, which is the repeatability for ISO ash (Ash % > 10%)
Hence = $0.813 \times 0.3 = 0.183$

Since 0.015 < 0.183 the samples are homogenous.

4. STABILITY CHECK

Samples were retained for sales as reference material. Ten of them were randomly chosen for stability testing. In order for the proficiency testing samples to be declared stable the general average from the homogeneity check and that of the stability check the difference in the general average should not differ by more than 0.3 X precision.

This test has been carried out about a month after the samples were received by the participating laboratories.

SAMPLE NO.	TEST PORTION 1	TEST PORTION 2	sample av (Xt)	range (Wt)	range sqd
1	30,57	30,53	30,55	0,04	0,0016
2	30,47	30,64	30,56	0,17	0,0289
3	30,47	30,69	30,58	0,22	0,0484
4	30,58	30,72	30,65	0,14	0,0196
5	30,48	30,85	30,67	0,37	0,1369
6	30,64	30,72	30,68	0,08	0,0064
7	30,52	30,75	30,64	0,23	0,0529
8	30,62	30,63	30,63	0,01	0,0001
9	30,68	30,81	30,75	0,13	0,0169
10	30,58	30,74	30,66	0,16	0,0256
GENERAL AVERAGE			30,63		
STANDARD DEVIATION			0,060		
WITHIN SAMPLE STANDARD DEVIATION			0,130		
BETWEEN SAMPLE STANDARD DEVIATION			0,069		

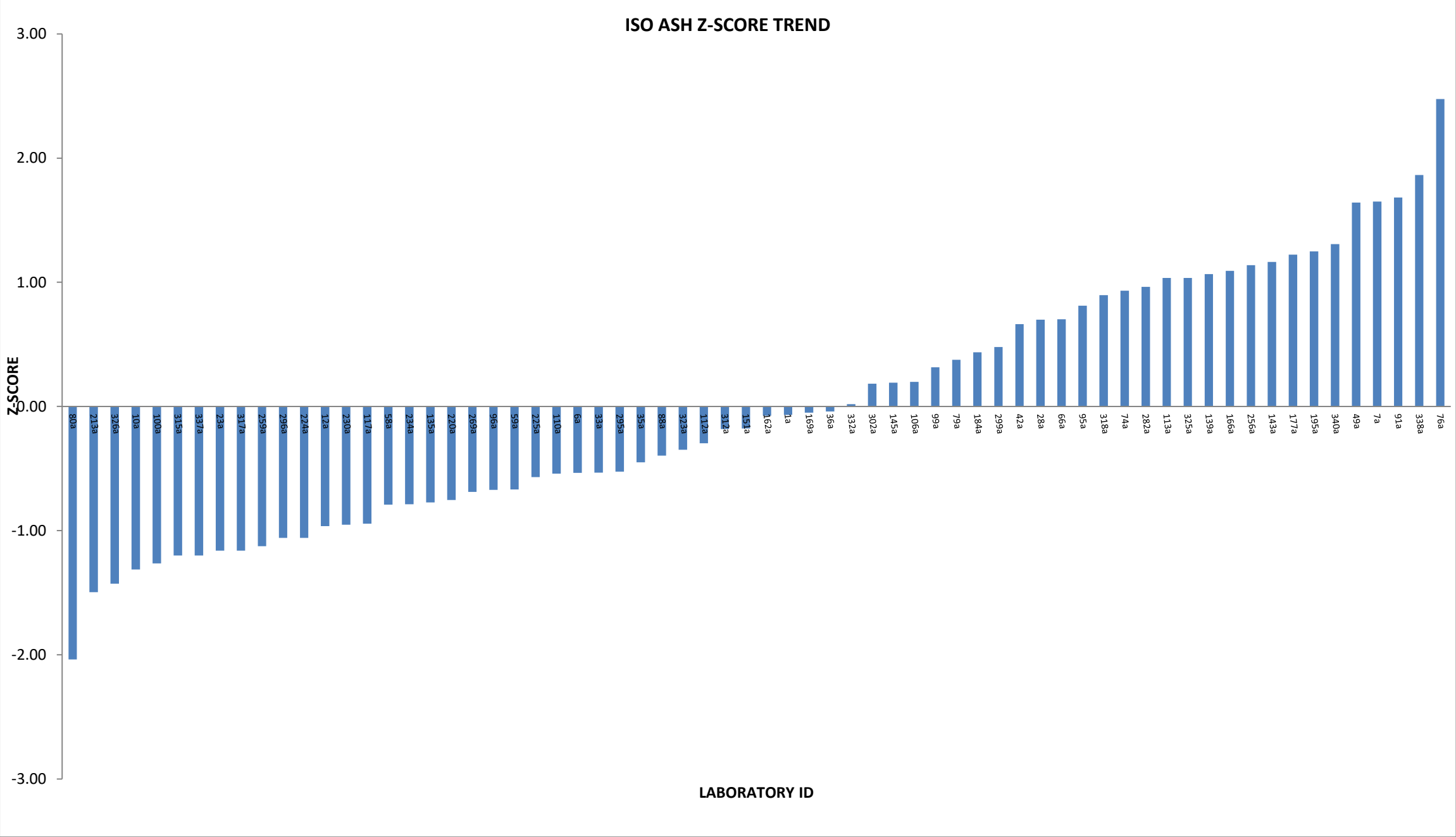
(σ = 0.612 was used)

For this report 0.183 was used

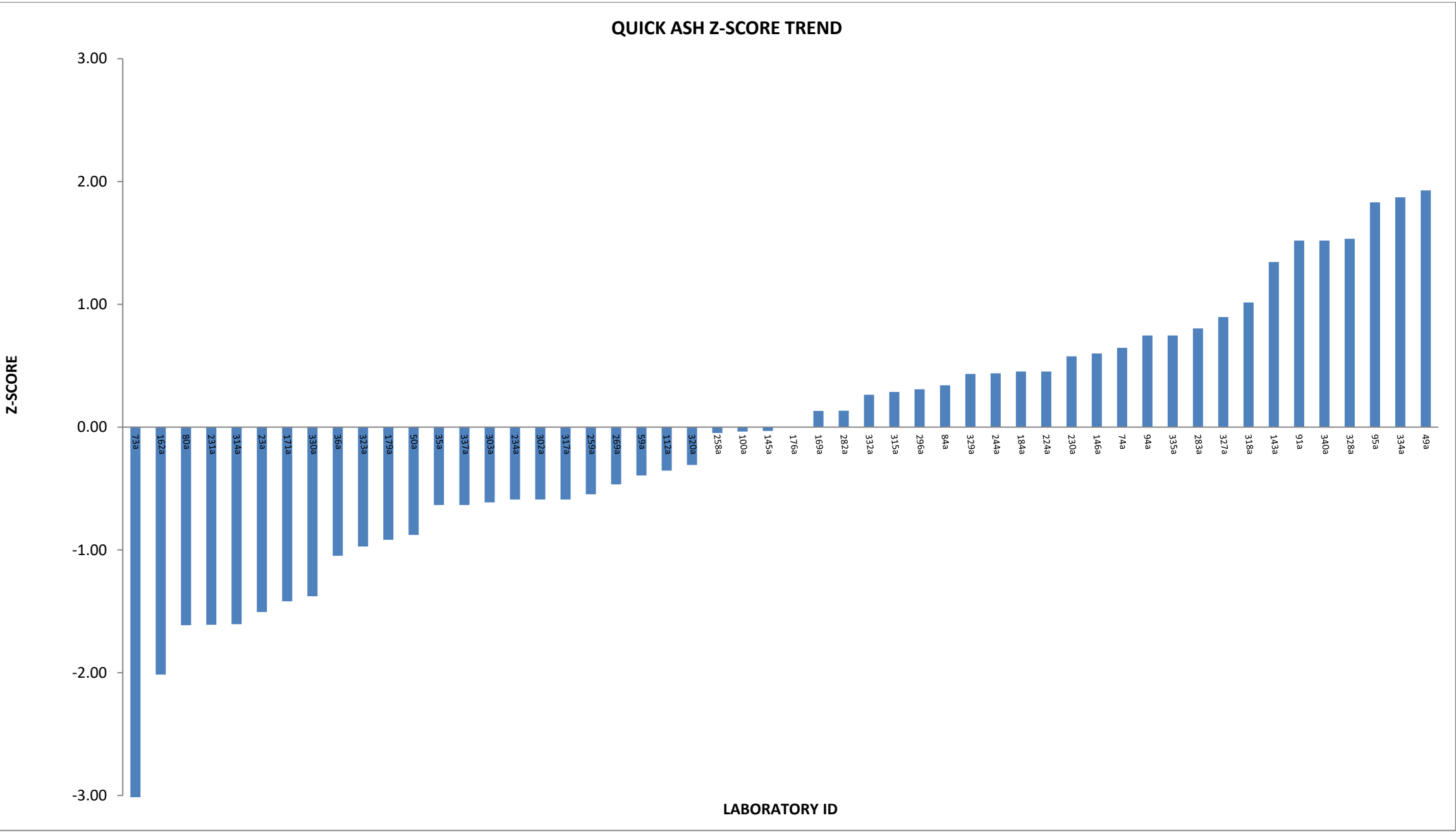
Absolute value of (30.63– 30.58) = 0.050

Since 0.050 < 0.183 the proficiency testing samples were stable

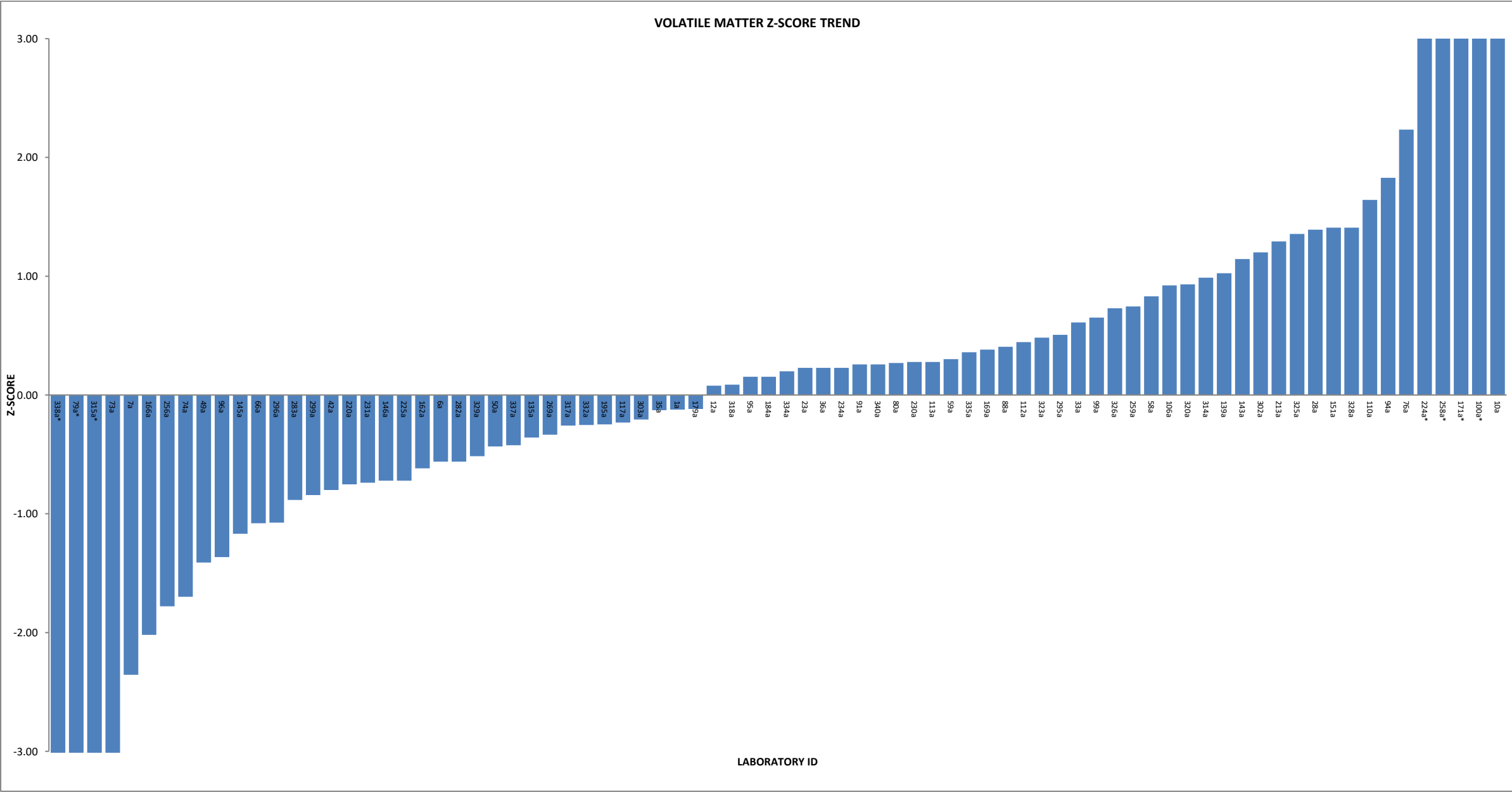
COAL CONCEPTS - PROFICIENCY TESTING -AUGUST 2026					
ANALYTICAL PARAMETER : ISO ASH (%)					
	LAB ID	MOISTURE IN ANALYSIS SAMPLE (%)	AIR DRY (%)	DRY BASE (%)	Z-SCORE (DRY BASE)
	1a	3,40	30,77	31,85	-0,07
	6a	3,26	30,69	31,72	-0,53
	7a	3,13	31,31	32,33	1,65
	10a	2,57	30,70	31,51	-1,31
	12a	3,50	30,50	31,61	-0,96
	23a	2,70	30,70	31,55	-1,16
	28a	3,35	30,99	32,06	0,70
	33a	2,60	30,90	31,72	-0,53
	35a	3,30	30,70	31,75	-0,45
	36a	2,70	31,00	31,86	-0,04
	42a	3,60	30,90	32,05	0,66
	49a	3,29	31,26	32,32	1,64
	58a	3,14	30,66	31,65	-0,79
	59a	3,81	30,48	31,69	-0,67
	66a	3,04	31,09	32,06	0,70
	74a	3,20	31,10	32,13	0,93
	76a	6,00	30,60	32,55	2,48
	79a	4,05	30,68	31,97	0,38
	80a	3,26	30,29	31,31	-2,04
	88a	2,40	31,00	31,76	-0,40
	91a	3,20	31,30	32,33	1,68
	95a	3,10	31,10	32,09	0,81
	96a	3,24	30,66	31,69	-0,67
	99a	2,78	31,07	31,96	0,32
	100a	2,39	30,77	31,52	-1,26
	106a	2,90	31,00	31,93	0,20
	110a	2,75	30,85	31,72	-0,54
	112a	3,24	30,76	31,79	-0,30
	113a	3,41	31,06	32,16	1,04
	117a	3,20	30,60	31,61	-0,94
	135a	2,46	30,88	31,66	-0,77
	139a	3,00	31,20	32,16	1,07
	143a	2,74	31,31	32,19	1,16
	145a	3,24	30,89	31,92	0,19
	151a	2,90	30,90	31,82	-0,18
	162a	3,30	30,80	31,85	-0,07
	166a	2,40	31,40	32,17	1,09
	169a	3,32	30,80	31,86	-0,05
	177a	3,13	31,20	32,21	1,22
	184a	3,10	31,00	31,99	0,44
	195a	3,09	31,22	32,22	1,25
	213a	1,62	30,95	31,46	-1,50
	220a	3,55	30,54	31,66	-0,75
	224a	2,85	30,68	31,58	-1,06
	225a	3,20	30,70	31,71	-0,57
	230a	2,56	30,80	31,61	-0,95
	234a	2,70	30,80	31,65	-0,79
	256a	3,65	31,01	32,18	1,14
	259a	2,73	30,70	31,56	-1,13
	269a	3,10	30,70	31,68	-0,69
	282a	3,07	31,15	32,14	0,96
	295a	3,30	30,68	31,73	-0,52
	296a	2,47	30,80	31,58	-1,06
	299a	3,51	30,88	32,00	0,48
	302a	2,70	31,06	31,92	0,18
	312a	3,34	30,76	31,82	-0,18
	315a	3,30	30,50	31,54	-1,20
	317a	2,70	30,70	31,55	-1,16
	318a	2,61	31,28	32,12	0,90
	323a	3,70	30,60	31,78	-0,35
	325a	3,41	31,06	32,16	1,04
	326a	2,95	30,55	31,48	-1,43
	332a	4,13	30,56	31,88	0,02
	337a	3,30	30,50	31,54	-1,20
	338a	3,72	31,18	32,38	1,86
	340a	3,20	31,20	32,23	1,31
Number of results	-	66	66	66	-
OUTLIERS	-	-	0	0	-
AVERAGE	-	3,13	30,87	31,87	-
STD DEVIATION	-	-	0,25	0,28	-
MEDIAN			30,80	31,85	-
%RSD	-	-	0,82	0,86	-
ROBUST AVERAGE	-	-	30,87	31,87	-
ROBUST STD DEVIATION	-	-	0,28	0,30	-
UoM			0,04	0,05	-



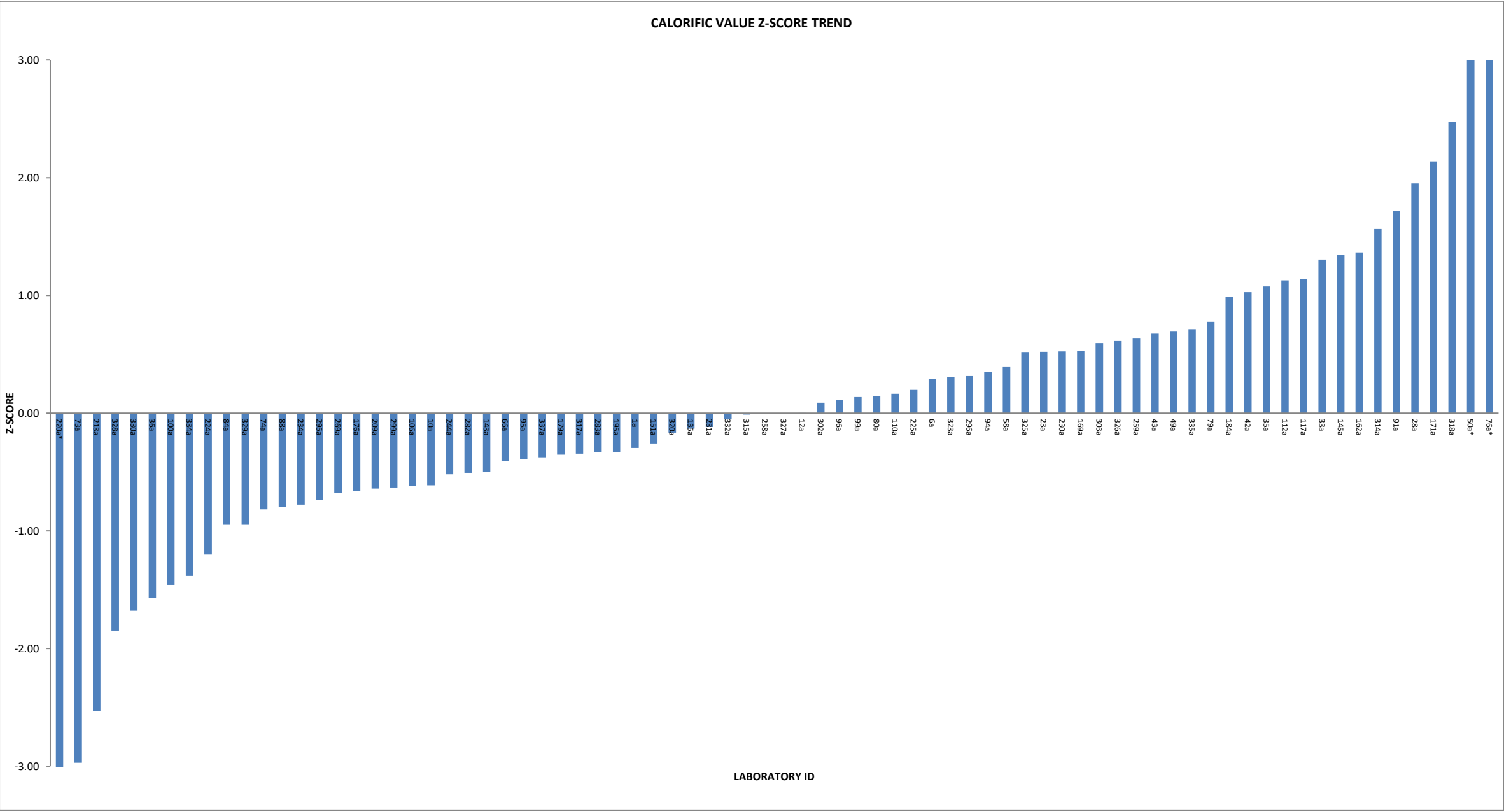
COAL CONCEPTS - PROFICIENCY TESTING -AUGUST 2026					
ANALYTICAL PARAMETER: QUICK ASH (%)					
LAB ID	LAB ID	MOISTURE IN ANALYSIS SAMPLE (%)	AIR DRY (%)	DRY BASE (%)	Z-SCORE (DRY BASE)
	23a	2,70	30,70	31,55	-1,51
	35a	3,30	30,70	31,75	-0,63
	36a	2,70	30,80	31,65	-1,05
	49a	3,29	31,26	32,32	1,93
	50a	3,48	30,59	31,69	-0,88
	59a	3,81	30,59	31,80	-0,39
	<u>73a</u>	<u>2,97</u>	<u>29,94</u>	<u>30,86</u>	<u>-4,60</u>
	74a	3,20	31,01	32,04	0,65
	80a	3,26	30,50	31,53	-1,61
	84a	3,40	30,88	31,97	0,34
	91a	3,20	31,20	32,23	1,52
	94a	3,30	31,00	32,06	0,75
	95a	3,10	31,30	32,30	1,83
	100a	2,39	31,12	31,88	-0,04
	112a	3,24	30,78	31,81	-0,35
	143a	2,74	31,31	32,19	1,34
	145a	3,24	30,85	31,88	-0,03
	146a	3,20	31,00	32,02	0,60
	162a	3,30	30,40	31,44	-2,01
	169a	3,32	30,86	31,92	0,13
	171a	3,33	30,52	31,57	-1,42
	176a	3,09	30,90	31,89	0,00
	179a	2,79	30,80	31,68	-0,92
	184a	3,10	31,00	31,99	0,45
	224a	2,85	31,08	31,99	0,45
	230a	2,56	31,20	32,02	0,58
	231a	3,04	30,57	31,53	-1,61
	234a	2,70	30,90	31,76	-0,59
	244a	3,09	31,00	31,99	0,44
	258a	3,70	30,70	31,88	-0,05
	259a	2,73	30,90	31,77	-0,55
	269a	3,10	30,80	31,79	-0,47
	282a	3,07	30,94	31,92	0,13
	283a	3,90	30,82	32,07	0,80
	296a	2,47	31,17	31,96	0,31
	302a	2,70	30,90	31,76	-0,59
	303a	2,37	31,00	31,75	-0,61
	314a	3,90	30,30	31,53	-1,60
	315a	3,30	30,90	31,95	0,29
	317a	2,70	30,90	31,76	-0,59
	318a	2,61	31,28	32,12	1,02
	320a	2,58	31,00	31,82	-0,31
	323a	3,70	30,50	31,67	-0,97
	327a	3,09	31,10	32,09	0,90
	328a	2,90	31,30	32,23	1,53
	329a	3,40	30,90	31,99	0,43
	330a	2,82	30,69	31,58	-1,38
	332a	4,13	30,63	31,95	0,26
	334a	2,20	31,60	32,31	1,87
	335a	3,30	31,00	32,06	0,75
	337a	3,30	30,70	31,75	-0,63
	340a	3,20	31,20	32,23	1,52
Number of results	-	52	52	52	-
OUTLIERS	-	-	1	1	-
AVERAGE	-	3,09	30,90	31,89	-
STD DEVIATION	-	-	0,26	0,22	-
MEDIAN			30,90	31,89	
%RSD	-	-	0,86	0,70	
ROBUST AVERAGE	-	-	30,90	31,89	
ROBUST STD DEVIATION	-	-	0,28	0,25	
UoM			0,05	0,04	



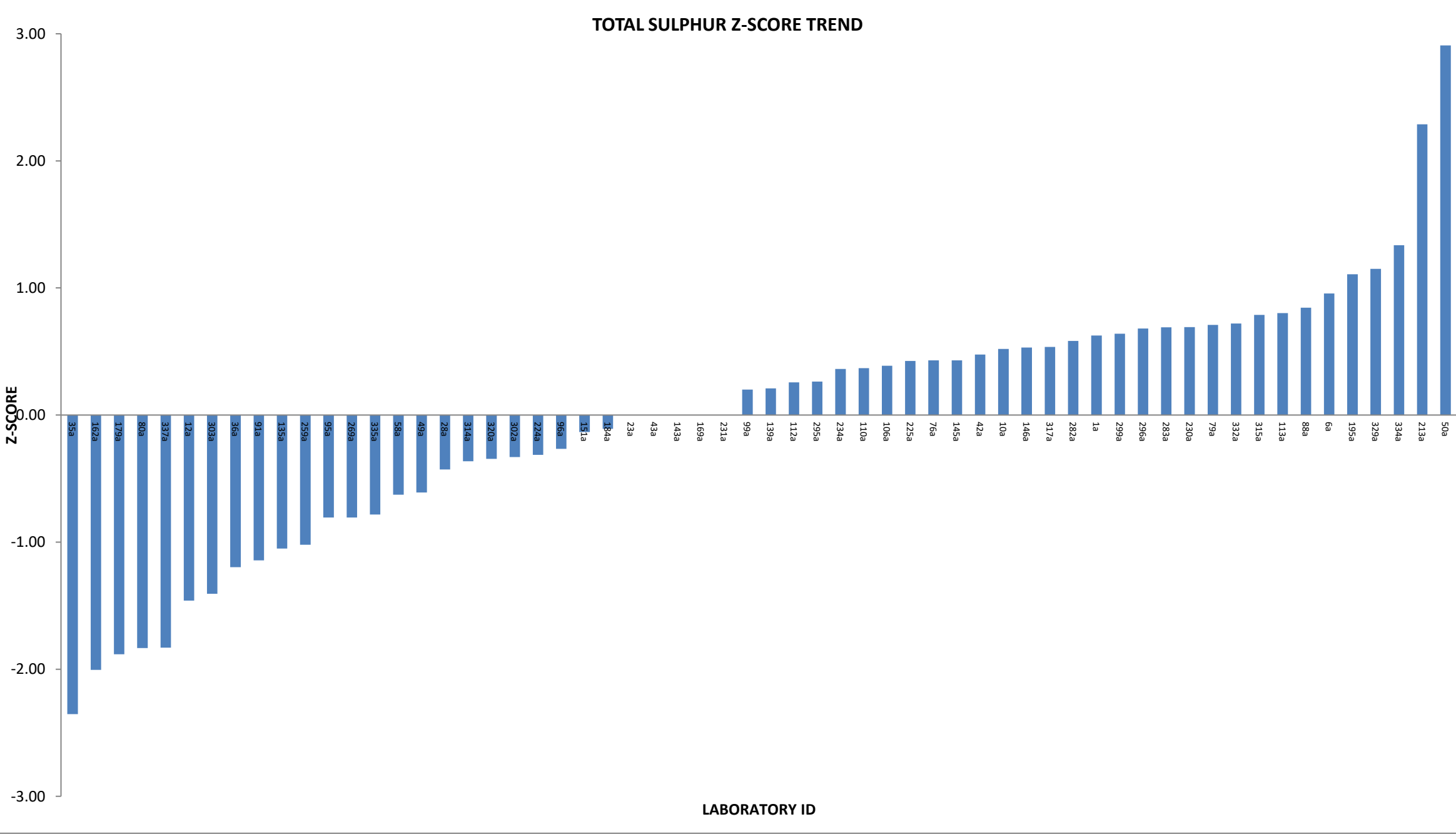
COAL CONCEPTS - PROFICIENCY TESTING -AUGUST 2026					
ANALYTICAL PARAMETER : ISO VOLATILE MATTER(%)					
	LAB ID	MOISTURE IN ANALYSIS SAMPLE (%)	AIR DRY	DRY BASE	Z-SCORE (DRY BASE)
	1a	3,40	20,38	21,10	-0,12
	6a	3,26	20,32	21,00	-0,56
	7a	3,13	19,98	20,63	-2,36
	<u>10a</u>	2,57	<u>23,95</u>	<u>24,58</u>	<u>16,36</u>
	12a	3,50	20,40	21,14	0,08
	23a	2,70	20,60	21,17	0,23
	28a	3,35	20,70	21,42	1,39
	33a	2,60	20,70	21,25	0,61
	35a	3,30	20,40	21,10	-0,13
	36a	2,70	20,60	21,17	0,23
	42a	3,60	20,20	20,95	-0,80
	49a	3,29	20,14	20,83	-1,41
	50a	3,48	20,30	21,03	-0,43
	58a	3,14	20,63	21,30	0,83
	59a	3,81	20,38	21,19	0,30
	66a	3,04	20,26	20,90	-1,08
	73a	2,97	19,85	20,46	-3,15
	74a	3,20	20,10	20,76	-1,70
	76a	6,00	20,30	21,60	2,24
	<u>79a*</u>	4,05	<u>19,33</u>	<u>20,15</u>	<u>-4,62</u>
	80a	3,26	20,49	21,18	0,27
	88a	2,40	20,70	21,21	0,41
	91a	3,20	20,50	21,18	0,26
	94a	3,30	20,80	21,51	1,83
	95a	3,10	20,50	21,16	0,15
	96a	3,24	20,16	20,84	-1,36
	99a	2,78	20,67	21,26	0,65
	<u>100a*</u>	2,39	<u>22,82</u>	<u>23,38</u>	<u>10,67</u>
	106a	2,90	20,70	21,32	0,92
	110a	2,75	20,88	21,47	1,64
	112a	3,24	20,53	21,22	0,45
	113a	3,41	20,46	21,18	0,28
	117a	3,20	20,40	21,07	-0,23
	135a	2,46	20,53	21,05	-0,36
	139a	3,00	20,70	21,34	1,03
	143a	2,74	20,78	21,37	1,15
	145a	3,24	20,20	20,88	-1,17
	146a	3,20	20,30	20,97	-0,72
	151a	2,90	20,80	21,42	1,41
	162a	3,30	20,30	20,99	-0,62
	166a	2,40	20,20	20,70	-2,02
	169a	3,32	20,50	21,20	0,38
	<u>171a*</u>	3,33	<u>21,94</u>	<u>22,70</u>	<u>7,44</u>
	179a	2,79	20,51	21,10	-0,12
	184a	3,10	20,50	21,16	0,15
	195a	3,09	20,42	21,07	-0,25
	213a	1,62	21,05	21,40	1,29
	220a	3,55	20,22	20,96	-0,75
	<u>224a*</u>	2,85	21,31	<u>21,94</u>	<u>3,84</u>
	225a	3,20	20,30	20,97	-0,72
	230a	2,56	20,64	21,18	0,28
	231a	3,04	20,33	20,97	-0,74
	234a	2,70	20,60	21,17	0,23
	256a	3,65	19,99	20,75	-1,78
	<u>258a*</u>	3,70	21,20	<u>22,01</u>	<u>4,22</u>
	259a	2,73	20,70	21,28	0,75
	269a	3,10	20,40	21,05	-0,33
	282a	3,07	20,36	21,00	-0,56
	283a	3,90	20,12	20,94	-0,88
	295a	3,30	20,53	21,23	0,51
	296a	2,47	20,38	20,90	-1,08
	299a	3,51	20,21	20,95	-0,84
	302a	2,70	20,80	21,38	1,20
	303a	2,37	20,58	21,08	-0,21
	314a	3,90	20,50	21,33	0,99
	<u>315a*</u>	3,30	<u>19,50</u>	<u>20,17</u>	<u>-4,53</u>
	317a	2,70	20,50	21,07	-0,26
	318a	2,61	20,59	21,14	0,09
	320a	2,58	20,77	21,32	0,93
	323a	3,70	20,44	21,23	0,48
	325a	3,41	20,68	21,41	1,36
	326a	2,95	20,65	21,28	0,73
	328a	2,90	20,80	21,42	1,41
	329a	3,40	20,30	21,01	-0,52
	332a	4,13	20,20	21,07	-0,25
	334a	2,20	20,70	21,17	0,20
	335a	3,30	20,50	21,20	0,36
	337a	3,30	20,34	21,03	-0,42
	<u>338a*</u>	3,72	<u>11,77</u>	<u>12,22</u>	<u>-42,10</u>
	340a	3,20	20,50	21,18	0,26
NUMBER OF RESULTS	-	80	80	80	-
OUTLIERS	-	-	6	8	-
AVERAGE	-	3,13	20,49	21,12	-
STD DEVIATION	-		0,26	0,21	-
MEDIAN			20,50	21,16	
%RSD	-	-	1,29	1,00	
ROBUST AVERAGE	-	-	20,48	21,13	-
ROBUST STD DEVIATION	-	-	0,28	0,22	-
UoM	-	-	0,04	0,03	-



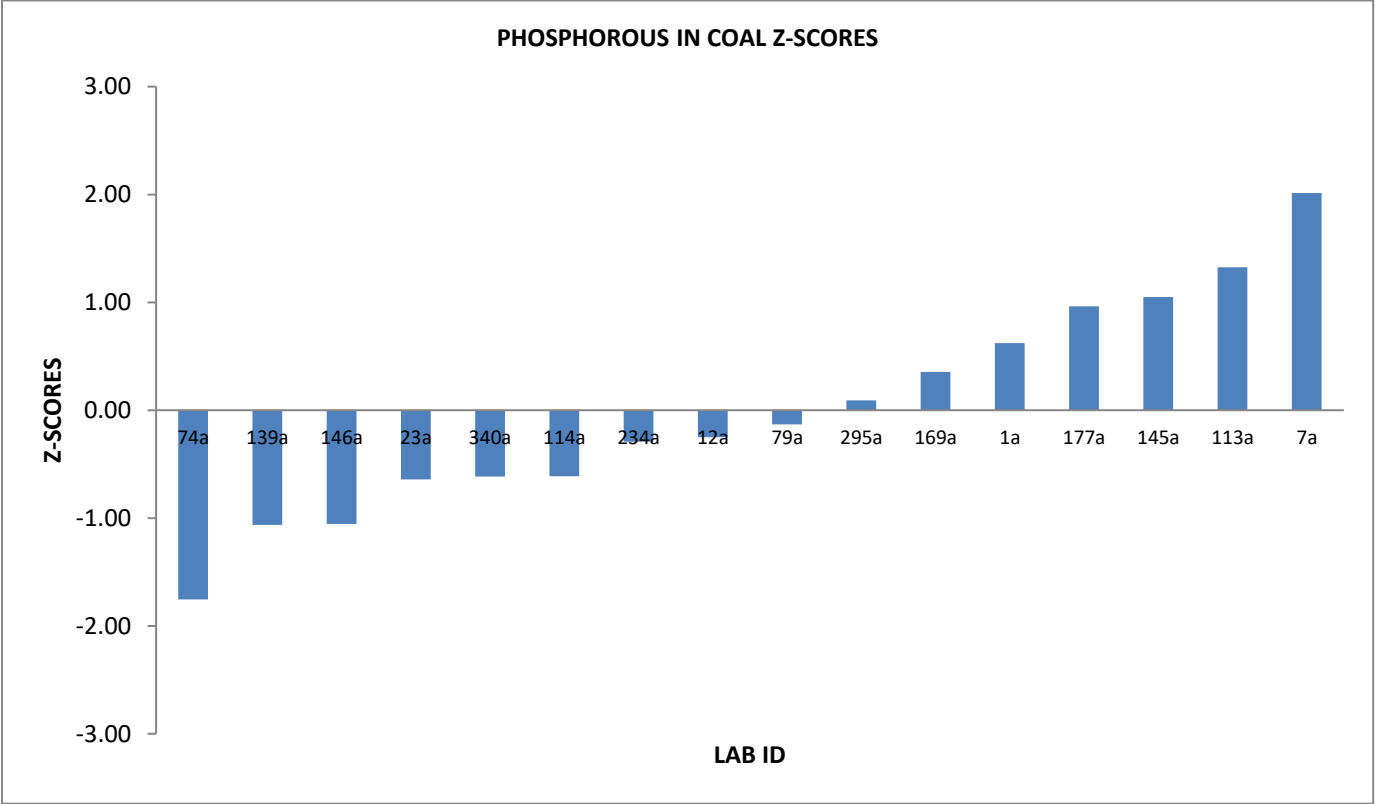
COAL CONCEPTS - PROFICIENCY TESTING -AUGUST 2026					
ANALYTICAL PARAMETER : CALORIFIC VALUE (MJ/kg)					
	LAB ID	MOISTURE IN ANALYSIS SAMPLE (%)	AIR DRY (MJ/kg)	DRY BASE (MJ/kg)	Z-SCORE (DRY BASE)
	1a	3,40	20,26	20,97	-0,30
	6a	3,26	20,37	21,06	0,29
	10a	2,57	20,39	20,93	-0,61
	12a	3,50	20,28	21,02	0,00
	23a	2,70	20,52	21,09	0,52
	28a	3,35	20,58	21,29	1,95
	33a	2,60	20,65	21,20	1,30
	35a	3,30	20,47	21,17	1,08
	36a	2,70	20,23	20,79	-1,57
	42a	3,60	20,40	21,16	1,03
	43a	2,47	20,59	21,11	0,68
	49a	3,29	20,42	21,11	0,70
	50a*	3,48	21,03	21,79	5,42
	58a	3,14	20,41	21,07	0,40
	66a	3,04	20,32	20,96	-0,41
	73a	2,97	19,98	20,59	-2,97
	74a	3,20	20,23	20,90	-0,82
	76a*	6,00	20,70	22,02	7,05
	79a	4,05	20,27	21,13	0,77
	80a	3,26	20,35	21,04	0,14
	84a	3,40	20,17	20,88	-0,95
	88a	2,40	20,40	20,90	-0,80
	91a	3,20	20,58	21,26	1,72
	94a	3,30	20,37	21,07	0,35
	95a	3,10	20,31	20,96	-0,39
	96a	3,24	20,35	21,03	0,11
	99a	2,78	20,45	21,03	0,14
	100a	2,39	20,31	20,81	-1,46
	106a	2,90	20,32	20,93	-0,62
	110a	2,75	20,46	21,04	0,16
	112a	3,24	20,49	21,18	1,13
	117a	3,20	20,50	21,18	1,14
	135a	2,46	20,48	21,00	-0,13
	143a	2,74	20,37	20,94	-0,50
	145a	3,24	20,52	21,21	1,35
	151a	2,90	20,37	20,98	-0,26
	162a	3,30	20,51	21,21	1,37
	169a	3,32	20,39	21,09	0,53
	171a	3,33	20,61	21,32	2,14
	176a	3,11	20,27	20,92	-0,66
	179a	2,79	20,38	20,96	-0,35
	184a	3,10	20,50	21,16	0,99
	195a	3,09	20,32	20,97	-0,33
	209a	3,46	20,20	20,92	-0,64
	213a	1,62	20,32	20,65	-2,53
	220a*	3,55	19,60	20,32	-4,86
	224a	2,85	20,25	20,84	-1,20
	225a	3,20	20,37	21,04	0,20
	230a	2,56	20,55	21,09	0,52
	231a	3,04	20,36	21,00	-0,12
	234a	2,70	20,34	20,90	-0,78
	244a	3,11	20,29	20,94	-0,52
	258a	3,70	20,24	21,02	0,00
	259a	2,73	20,53	21,11	0,64
	269a	3,10	20,27	20,92	-0,68
	282a	3,07	20,30	20,94	-0,51
	283a	3,90	20,15	20,97	-0,33
	295a	3,30	20,22	20,91	-0,74
	296a	2,47	20,54	21,06	0,32
	299a	3,51	20,19	20,92	-0,64
	302a	2,70	20,46	21,03	0,09
	303a	2,37	20,60	21,10	0,60
	314a	3,90	20,41	21,24	1,56
	315a	3,30	20,32	21,01	-0,01
	317a	2,70	20,40	20,97	-0,34
	318a	2,61	20,81	21,37	2,47
	320a	2,58	20,45	20,99	-0,17
	323a	3,70	20,28	21,06	0,31
	325a	3,41	20,37	21,09	0,52
	326a	2,95	20,48	21,10	0,61
	327a	3,11	20,37	21,02	0,00
	328a	2,90	20,15	20,75	-1,85
	329a	3,40	20,17	20,88	-0,95
	330a	2,82	20,19	20,78	-1,68
	332a	4,13	20,14	21,01	-0,05
	334a	2,20	20,36	20,82	-1,38
	335a	3,30	20,42	21,12	0,71
	337a	3,30	20,27	20,96	-0,37
NUMBER OF RESULTS	-	78	78	78	-
OUTLIERS	-	-	2	3	-
AVERAGE	-	3,11	20,38	21,02	-
STD DEVIATION	-	-	0,14	0,14	-
MEDIAN			20,37	21,02	
%RSD	-	-	0,71	0,68	
ROBUST AVERAGE	-	-	20,38	21,02	-
ROBUST STD DEVIATION	-	-	0,15	0,15	-
UoM	-	-	0,02	0,02	-



COAL CONCEPTS - PROFICIENCY TESTING -AUGUST 2026					
ANALYTICAL PARAMETER : TOTAL SULPHUR (%)					
	LAB ID	MOISTURE IN ANALYSIS SAMPLE (%)	AIR DRY	DRY BASE	Z-SCORE (DRY BASE)
	1a	3,40	0,71	0,73	0,63
	6a	3,26	0,73	0,75	0,96
	10a	2,57	0,71	0,73	0,52
	12a	3,50	0,59	0,61	-1,46
	23a	2,70	0,68	0,70	0,00
	28a	3,35	0,65	0,67	-0,43
	35a	3,30	0,54	0,56	-2,35
	36a	2,70	0,61	0,63	-1,20
	42a	3,60	0,70	0,73	0,48
	43a	2,47	0,68	0,70	0,00
	49a	3,29	0,64	0,66	-0,61
	50a	3,48	0,84	0,87	2,91
	58a	3,14	0,64	0,66	-0,63
	76a	6,00	0,68	0,72	0,43
	79a	4,05	0,71	0,74	0,71
	80a	3,26	0,57	0,59	-1,83
	88a	2,40	0,73	0,75	0,84
	91a	3,20	0,61	0,63	-1,14
	95a	3,10	0,63	0,65	-0,81
	96a	3,24	0,66	0,68	-0,27
	99a	2,78	0,69	0,71	0,20
	106a	2,90	0,70	0,72	0,39
	110a	2,75	0,70	0,72	0,37
	112a	3,24	0,69	0,71	0,26
	113a	3,41	0,72	0,75	0,80
	135a	2,46	0,62	0,64	-1,05
	139a	3,00	0,69	0,71	0,21
	143a	2,74	0,68	0,70	0,00
	145a	3,24	0,70	0,72	0,43
	146a	3,20	0,71	0,73	0,53
	151a	2,90	0,67	0,69	-0,13
	162a	3,30	0,56	0,58	-2,00
	169a	3,32	0,68	0,70	0,00
	179a	2,79	0,57	0,59	-1,88
	184a	3,10	0,67	0,69	-0,11
	195a	3,09	0,74	0,76	1,11
	213a	1,62	0,82	0,83	2,29
	224a	2,85	0,66	0,68	-0,31
	225a	3,20	0,70	0,72	0,43
	230a	2,56	0,72	0,74	0,69
	231a	3,04	0,68	0,70	0,00
	234a	2,70	0,70	0,72	0,36
	259a	2,73	0,62	0,64	-1,02
	269a	3,10	0,63	0,65	-0,81
	282a	3,07	0,71	0,73	0,58
	283a	3,90	0,71	0,74	0,69
	295a	3,30	0,69	0,71	0,26
	296a	2,47	0,72	0,74	0,68
	299a	3,51	0,71	0,74	0,64
	302a	2,70	0,66	0,68	-0,33
	303a	2,37	0,60	0,61	-1,41
	314a	3,90	0,65	0,68	-0,36
	315a	3,30	0,72	0,74	0,79
	317a	2,70	0,71	0,73	0,54
	320a	2,58	0,66	0,68	-0,34
	329a	3,40	0,74	0,77	1,15
	332a	4,13	0,71	0,74	0,72
	334a	2,20	0,76	0,78	1,34
	335a	3,30	0,63	0,65	-0,78
	337a	3,30	0,57	0,59	-1,83
NUMBER OF RESULTS		60	60	60	-
OUTLIERS	-	-	0	0	-
AVERAGE	-	3,10	0,68	0,70	
MEDIAN		-	0,68	0,71	
STD DEVIATION	-	-	0,06	0,06	
%RSD	-	-	8,53	8,49	
ROBUST AVERAGE	-	-	0,68	0,70	-
ROBUST STD DEVIATION	-	-	0,06	0,06	-
UoM	-	-	0,01	0,01	-



COAL CONCEPTS - PROFICIENCY TESTING -AUGUST 2026					
ANALYTICAL PARAMETER: PHOSPHOROUS IN COAL (%)					
	LAB ID	MOISTURE IN ANALYSIS SAMPLE (%)	AIR DRY	DRY BASE	Z-SCORE (DRY BASE)
	1a	3,40	0,070	0,072	0,62
	7a	3,25	0,086	0,089	2,01
	12a	3,50	0,060	0,062	-0,25
	23a	2,70	0,056	0,058	-0,64
	74a	3,20	0,043	0,044	-1,75
	79a	4,05	0,061	0,064	-0,13
	113a	3,41	0,078	0,081	1,32
	114a	3,25	0,056	0,058	-0,61
	139a	3,00	0,051	0,053	-1,06
	145a	3,24	0,075	0,078	1,05
	146a	3,20	0,051	0,053	-1,05
	169a	3,32	0,067	0,069	0,35
	177a	3,25	0,074	0,076	0,96
	234a	2,70	0,060	0,062	-0,29
	295a	3,30	0,064	0,066	0,09
	340a	3,20	0,056	0,058	-0,62
Number of results	-	16	16	16	-
OUTLIERS	-	-	0	0	-
AVERAGE	-	3,25	0,063	0,065	-
STD DEVIATION	-	-	0,011	0,012	-
MEDIAN		-	0,061	0,063	
ROBUST AVERAGE	-	-	0,063	0,065	
ROBUST STD DEVIATION	-	-	0,012	0,012	
UoM	-	-	0,004	0,004	



COAL CONCEPTS - PROFICIENCY TESTING -AUGUST 2026					
ANALYTICAL PARAMETER: TOTAL CARBON (%)					
	LAB ID	MOISTURE IN ANALYSIS SAMPLE (%)	AIR DRY	DRY BASE	Z-SCORE (DRY BASE)
	1a	3,40	53,22	55,09	-0,45
	12a	3,50	52,34	54,24	-1,30
	42a	3,60	53,38	55,37	-0,17
	43a	2,47	54,43	55,81	0,27
	79a	4,05	54,83	57,14	1,60
	88a	2,40	53,48	54,80	-0,74
	177a	3,18	53,00	54,74	-0,80
	224a	2,85	53,68	55,25	-0,29
	234a	2,70	55,80	57,35	1,80
	295a	3,30	53,08	54,89	-0,65
	299a	3,51	54,29	56,26	0,72
Number of results	-	11	11	11	-
OUTLIERS	-	-	0	0	-
AVERAGE	-	3,18	53,78	55,54	-
MEDIAN	-	-	53,48	55,25	-
STD DEVIATION	-	-	0,98	1,00	-
%RSD	-	-	1,82	1,81	
ROBUST AVERAGE	-	-	-	-	
ROBUST STD DEVIATION	-	-	-	-	
UoM	-	-	-	-	

COAL CONCEPTS - PROFICIENCY TESTING -AUGUST 2026					
ANALYTICAL PARAMETER : HYDROGEN (%)					
	LAB ID	MOISTURE IN ANALYSIS SAMPLE (%)	AIR DRY	DRY BASE	Z-SCORE (DRY BASE)
	1a	3,40	2,95	3,05	0,19
	12a	3,50	3,06	3,17	0,94
	42a	3,60	2,84	2,95	-0,51
	43a	2,47	2,72	2,79	-1,53
	79a	4,05	2,84	2,96	-0,42
	88a	2,40	2,92	2,99	-0,22
	177a	3,14	3,15	3,25	1,47
	224a	2,85	2,97	3,06	0,21
	234a	2,70	2,75	2,83	-1,29
	295a	3,30	3,10	3,21	1,17
Number of results		10	10	10	
OUTLIERS	-	-	0	0	-
AVERAGE	-	3,14	2,93	3,03	-
MEDIAN		-	2,94	3,02	-
STD DEVIATION	-	-	0,14	0,15	-
%RSD	-	-	4,95	5,10	
ROBUST AVERAGE	-	-	2,93	3,03	
ROBUST STD DEVIATION	-	-	0,20	0,21	
UoM	-	-	0,08	0,08	

COAL CONCEPTS - PROFICIENCY TESTING -AUGUST 2026					
ANALYTICAL PARAMETER: NITROGEN(%)					
	LAB ID	MOISTURE IN ANALYSIS SAMPLE (%)	AIR DRY	DRY BASE	Z-SCORE (DRY BASE)
	1a	3,40	1,16	1,20	-0,67
	12a	3,50	1,21	1,25	0,00
	42a	3,60	1,14	1,18	-0,90
	43a	2,47	1,14	1,17	-1,07
	79a	4,05	1,16	1,21	-0,56
	88a	2,40	1,39	1,42	2,18
	177a	3,20	1,25	1,29	0,48
	224a	2,85	1,26	1,30	0,56
	295a	3,30	1,21	1,25	0,00
Number of results		9	9	9	-
OUTLIERS	-	-	0	0	-
AVERAGE	-	3,20	1,21	1,25	-
MEDIAN		-	1,21	1,25	-
STD DEVIATION	-	-	0,08	0,08	-
%RSD	-	-	6,59	6,27	-
ROBUST AVERAGE	-	-	-	-	-
ROBUST STD DEVIATION	-	-	-	-	-
UoM	-	-	-	-	-

COAL CONCEPTS - PROFICIENCY TESTING -AUGUST 2026					
ANALYTICAL PARAMETER: ASH FUSION TEMPERATURES (oC)					
LAB ID	DEFORMATION	SOFTENING	HEMISPHERE	FLOW	
1a	1380	1410	1430	1460	
10a	1390	1430	1440	1470	
23a	1350	1410	1430	1500	
42a	1400	1430	1440	1450	
49a	1370	1410	1470	1500	
80a	1410	1460	1490	1500	
88a	1430	1450	1480	1500	
95a	1370	1410	1420	1450	
99a	1361	1403	1438	1480	
106a	1410	1460	1490	1500	
112a	1410	1450	1500	1500	
145a	1380	1420	1460	1480	
151a	1400	1420	1440	1480	
224a	1390	1430	1440	1470	
234a	1420	1460	1480	1500	
295a	1400	1420	1440	1470	
317a	1380	1420	1460	1500	
Number of results	17	17	17	17	
Outliers	0	0	0	0	
AVERAGE	1391	1429	1456	1483	
MEDIAN	1390	1420	1440	1480	
STDEV	22	20	25	19	

Z-SCORES				
LAB ID	DEFORMATION	SOFTENING	HEMISPHERE	FLOW
1a	-0,52	-0,96	-1,04	-1,23
10a	-0,06	0,05	-0,63	-0,69
23a	-1,90	-0,96	-1,04	0,92
42a	0,40	0,05	-0,63	-1,77
49a	-0,98	-0,96	0,57	0,92
80a	0,87	1,57	1,38	0,92
88a	1,79	1,07	0,98	0,92
95a	-0,98	-0,96	-1,44	-1,77
99a	-1,40	-1,32	-0,71	-0,16
106a	0,87	1,57	1,38	0,92
112a	0,87	1,07	1,78	0,92
145a	-0,52	-0,46	0,17	-0,16
151a	0,40	-0,46	-0,63	-0,16
224a	-0,06	0,05	-0,63	-0,69
234a	1,33	1,57	0,98	0,92
295a	0,40	-0,46	-0,63	-0,69
317a	-0,52	-0,46	0,17	0,92

COAL CONCEPTS - PROFICIENCY TESTING -AUGUST 2026					
ANALYTICAL PARAMETER: CHLORINE (ppm)					
	LAB ID	MOISTURE IN ANALYSIS SAMPLE (%)	AIR DRY	DRY BASE	Z-SCORE (DRY BASE)
	12a	3,50	10	10	-
	177a	3,50	207	215	-
Number of results	-	2	2	2	-
OUTLIERS	-	-	-	-	-
AVERAGE	-	3,50	109	112	-
STD DEVIATION	-	-	-	-	-
MEDIAN	-	-	-	-	-

COAL CONCEPTS - PROFICIENCY TESTING -AUGUST 2026					
ANALYTICAL PARAMETER: FLUORINE (ppm)					
	LAB ID	MOISTURE IN ANALYSIS SAMPLE (%)	AIR DRY	DRY BASE	Z-SCORE (DRY BASE)
	12a	3,5	126	131	-0,91
	169a	3,32	211	218	0,80
	177a	3,39	131	136	-0,82
	312a	3,335	217	224	0,93
Number of results	-	4	4	4	-
OUTLIERS	-	-	0	0	-
AVERAGE	-	3,39	171	177	-
STD DEVIATION	-	-	49	51	-
MEDIAN	-	-	171	177	-

COAL CONCEPTS - PROFICIENCY TESTING -AUGUST 2026					
ANALYTICAL PARAMETER: ASTM ASH (%)					
	LAB ID	MOISTURE IN ANALYSIS SAMPLE (%)	AIR DRY (%)	DRY BASE (%)	Z-SCORE (DRY BASE)
	1a	3,40	30,82	31,90	-0,09
	12a	3,50	30,69	31,80	-0,51
	209a	3,46	31,16	32,28	1,43
	224a	2,85	30,82	31,72	-0,83
Number of results	-	4	4	4	-
OUTLIERS	-	-	0	0	-
AVERAGE	-	3,30	30,87	31,93	-
STD DEVIATION	-	-	0,20	0,24	-
MEDIAN	-	-	30,82	31,85	-
%RSD	-	-	0,65	0,77	-

COAL CONCEPTS - PROFICIENCY TESTING -AUGUST 2026					
ANALYTICAL PARAMETER: ASTM VOLS (%)					
	LAB ID	MOISTURE IN ANALYSIS SAMPLE (%)	AIR DRY (%)	DRY BASE (%)	Z-SCORE (DRY BASE)
	1a	3,40	20,69	21,42	-1,42
	12a	3,50	21,40	22,18	0,02
	209a	3,46	21,75	22,53	0,70
	224a	2,85	21,89	22,53	0,70
Number of results	-	4	4	4	-
OUTLIERS	-	-	0	0	-
AVERAGE	-	3,30	21,43	22,16	-
STD DEVIATION	-	-	0,54	0,52	-
MEDIAN	-	-	21,58	22,35	-
%RSD	-	-	2,50	2,37	-

Conclusion

The August 2026 General Analysis Proficiency Testing round demonstrated a high degree of agreement between participating laboratories across the accredited analytical parameters. Statistical evaluation in accordance with ISO/IEC 13528 showed that the average, robust average and median were closely aligned for all major parameters, indicating that the assigned values were representative of the participant population and were not materially influenced by extreme results.

The comparison of the statistical indicators confirmed this consistency. ISO Ash produced identical average and robust average values of 31.87% (dry basis), with the median differing by only 0.02%. Quick Ash showed complete agreement between the average, robust average and median at 31.89%, while Calorific Value returned identical average, robust average and median values of 21.02 MJ/kg. Total Sulphur also exhibited excellent agreement, with the average and robust average both at 0.70%, differing from the median by only 0.01%. These close relationships indicate that the participant results were symmetrically distributed around the assigned values.

The robust standard deviations remained very similar to the conventional standard deviations throughout the report, further confirming that the robust statistical approach effectively accommodated the limited number of extreme results without altering the assigned values. Relative standard deviations remained low for the principal parameters, with approximately 0.86% for ISO Ash, 0.70% for Quick Ash, 1.00% for ISO Volatile Matter and 0.68% for Calorific Value, demonstrating good inter-laboratory precision.

Trend evaluation of the z-score distributions showed that the majority of laboratories remained within the acceptable performance range of ± 2 , with results generally centred around the zero line, indicating no widespread systematic bias across the participant population. The z-score distributions for ISO Ash, Quick Ash, Calorific Value and Total Sulphur displayed balanced positive and negative deviations, consistent with normal inter-laboratory variation rather than directional drift.

Outlier performance remained limited considering the number of participants. The scheme identified one ISO Ash outlier, eight ISO Volatile Matter outliers and one Calorific Value outlier, while the remaining accredited parameters produced no statistical outliers requiring exclusion from the assigned value calculations.

The integrity of the proficiency testing material was also confirmed through the preliminary quality checks. The homogeneity assessment demonstrated a between-sample standard deviation well below the acceptance criterion, and the stability assessment showed that the change in the general average remained comfortably within the allowable limit, confirming that the distributed samples remained suitable for proficiency testing throughout the evaluation period.

Overall, the statistical evidence indicates that the August 2026 proficiency testing round was successfully executed, with stable and homogeneous test materials, robust assigned values and satisfactory agreement between participating laboratories. The close correspondence between the average, robust average and median, together with the low standard deviations and well-centred z-score trends, demonstrates a reliable level of inter-laboratory comparability consistent with the requirements of ISO/IEC 17043:2023, ISO/IEC 13528 and SANAS R80.

COAL CONCEPTS: Terms and Conditions

Return of results:

Laboratories participate in proficiency testing programs on the understanding that they will be sharing their results and information **anonymously** with other laboratories performing the same analysis. No return of results compromises the spirit of the programs, and reports will not be sent to laboratories unless they return results. Payment in full is required from all laboratories enrolling whether they return results or not.

Errors in Participant Proficiency Testing Results:

Proficiency testing reports should reflect the level of accuracy that a regular testing client would receive.

If a participant finds an error in their proficiency testing results, they may notify us in writing and change their submission **PRIOR** to the due date for return. Changes after this time will not be accepted.

Coal Concepts' reports result *as submitted* by participants.

On occasion, it seems as though participants have mixed up the samples or not processed the samples according to the instructions. Coal Concepts cannot make assumptions of this nature and change results 'to suit'. We also cannot compromise the integrity of the programs by suggesting to some participants that they should review their results prior to the due date. (This is unfair to other participants) It is the responsibility of the participants to check all aspects of the program, including sample identification, preparation, testing instructions, calculations and reporting of the results prior to results submission.

If samples are not in good condition on arrival to the participant laboratory, Coal Concepts must be notified in writing IMMEDIATELY, as often samples can be replaced in good time. Claims about samples received in bad condition will not be accepted after the report has been issued.

Late Enrolments and Late Results:

Late enrolment requests cannot always be accommodated, as sample manufacture must be scheduled well in advance to the shipping date of the program to allow all necessary quality assurance activities to be carried out.

Shipping of PT materials and evaluating test results from PTPs out of cycle with the mainstream programs is considerably time consuming and therefore costly.

In order not to disadvantage participants able to comply with time frames, Coal Concepts may charge a late fee in the following circumstances:

Requests that Coal concepts staff enters results on behalf of participants.

Requests to record results after the due date.

Requests for PTP participation that is out of cycle with the scheduled dates.

Shipping fees and Customs clearance:

Costs incurred for shipping samples and clearance of same through customs are the responsibility of the participating laboratory unless otherwise indicated.

Non-payment of fees:

Coal Concepts retains the right to withhold reports and/or test materials and services when invoices are outstanding.

Confidentiality of results:

All data and information received by Coal Concepts from its clients are considered confidential unless the client has given express permission to pass on information.

Definitions:

The dictionary definitions of "collusion" and "falsification" are as follows.

· *Collusion*: A secret agreement or cooperation for a fraudulent or deceitful purpose.

· *Falsification*: Deliberately changing something to be false. In proficiency testing terms, collusion is comparing data (and perhaps changing data) to fit in with a believed "correct" result. This is contrary to the spirit of proficiency testing programs, which are issued with the intention of providing an objective comparison of a laboratory's performance with others. Coal Concepts tries to minimise the occurrence of collusion by being aware that laboratories should be objective when they report their results and should therefore not know the intended results at the time, they are reporting to us.

Answers are not provided to clients until results have been submitted.

To prevent collusion and falsification our advice to clients is:

DON'T confer with others about PT samples or results.

DO accept the fact that everyone makes errors.

DON'T average the results or opinions of every person in the laboratory before selecting the answer to be submitted. Instead, use one of the answers AS SUBMITTED to you and take advantage of the Coal Concepts internal QA services and submit all answers generated by the technicians.

DO have confidence in your own results.

Proficiency Testing (PT) is a compulsory part of laboratory accreditation, but it is also an important tool for giving you confidence in your results. "Enhancing" your PT results with assistance from another participant cannot increase confidence in your laboratory's performance.

Coal concepts' testing staff are not told what the expected results are, nor what we are expecting.

We subject ALL results to analysis, even if they are different.

The staff have the right to check that the results we enter on their behalf are correctly transcribed.

Clients are always welcome to contact Coal Concepts to seek advice or information about collusion or falsification of data.

Policy for Participant Appeal of PT Performance Assessment:

If participants disagree with their performance assessment in a proficiency report, they should inform Coal Concepts in writing.

The response will include Coal Concepts interpretation of the outcome of the reassessment and an explanation of that outcome.

(For example, explanation of a calculation, or the rationale for the outcome of the evaluation.)

If a mistake has been made by Coal Concepts, it will be dealt with via Coal Concepts' non-conformance system.

Liability

In no event shall a party's liability to the other party for direct damages exceed an amount equal to the value of the amount for the PT Programme, under that specific month.

End of report