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Certificate of Participation

This is to certify that

*Iran Mineral Processing Research
Center (IMPRC)*

has participated in the April 2022
Geostats Survey of International Laboratories

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Operations Manager

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Managing Director

Geostats Laboratory Survey
April 2022

Prepared for
Iran Mineral Processing Research Center (IMPRC)

Confidential

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To the reader,

This survey of laboratories undertaken by Geostats is performed as a service to both the Mining Industry and the Analytical Industry. It is envisaged that it can be used as a tool for the maintenance of high standards in both industries.

The report to the Mining Houses identifies most commercial laboratories and should be treated as confidential information. Some commercial facilities prefer to pay for the inclusion of their sites and these are not identified to the Mining Houses. This report should not be circulated outside of the Client Company or reproduced for the benefit of other mining groups.

It is not the intent of this survey to provide marketing tools for the analytical industry. A laboratory report is available which identifies only the laboratory or group requesting the report. This allows the laboratory to assess their performance in relation to the rest of the analytical industry. All the laboratories identified have taken advantage of this report and included it as part of their ongoing quality control procedures. Participation in these surveys is an indication of the laboratory's interest in quality and should be regarded as a positive sign regardless of the outcome.

Many thanks to both the laboratories and the Mining Houses for their ongoing support of this survey.

Kind regards,

Stuart Romero BSc, BEng

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Geostats Pty Ltd, O'Connor, Western Australia
Listing of Participating Laboratories for Round Robin - April 2022

Western Australia			
ALSM KAL	ALS Minerals - Kalgoorlie		
ALSM METALLURGY	Ammtec Laboratory		
ALSM PERTH	ALS Minerals - Perth		
AURUM BECK	Aurum Laboratories Pty Ltd		
BV PERTH	Ultra Trace Pty Ltd		
GEKKO VICTORIA	Gekko Assay Laboratory		
GF GRUYERE	Gruyere Gold Mine Laboratory		
GOLDEN GROVE	EMR Golden Grove		
INT GEN PER	Genalysis Laboratory Services Pty Ltd		
KAL PER	Kalassay Group (Perth Assay Laboratory)		
KARORA HIGGINSVILLE	Karora Resources - Higginsville Operation		
LABWEST	LabWest		
MINANALYTICAL	MinAnalytical		
MINANALYTICAL PA	MinAnalytical PA		
NEWCREST TELFER	Newcrest Mining Limited - Telfer Gold Mine Lab		
SGS KALG	SGS Kalgoorlie		
SGS PERTH AIRPORT	SGS Perth Airport		
SGS TROPICANA	SGS Tropicana		
New South Wales			
ALSM ORANGE	ALS Minerals - Orange		
NEWCREST ORANGE	Newcrest Laboratory Services Orange		
SGS WEST WYALONG	SGS West Wyalong		
Northern Territory			
INT DARWIN	Northern Territory Environmental Laboratories		
NEWMONT TANAMI	Granites Gold Mine		
Queensland			
ALSM BRIS	ALS Minerals - Brisbane		
ALSM MT ISA	ALS Minerals - Mt Isa		
ALSM TVL	ALS Minerals - Townsville		
GEN TOWNSVILLE	Genalysis Testing Services, Townsville		
South Australia			
BV ADL	Bureau Veritas Minerals - Wingfield		
INT GEN ADEL	Genalysis Laboratory Services - Adelaide		
Tasmania			
ALSM BURNIE	Burnie Research Laboratory		
Argentina			
ASI MENDOZA	Alex Stewart International Argentina SA - Mendoza		
ASI PERITO MORENO	Alex Stewart International Argentina SA - Perito Moreno		
MANSFIELD ARG	Mansfield Mineras S.A.		
VELADERO MINE	Veladero Project Assay Lab		
Brazil			
PARACATU MINE	Kinross Brasil Mineração SA		
SGS LF BELO HOR	SGS Geosol Laboratórios Ltda		
Burkina Faso			
ALSM OUAGADOUGOU	ALS Burkina SARL		
IAMGOLD BF	IAMGOLD Essakane SA		
SGS HOUNDE BF	SGS Houunde		
SGS KARMA	SGS Karma Laboratory		
SGS OUAGADOUGOU	SGS Burkina SA		
SGS YARAMOKO	SGS Yaramoko		
WESTAGO BF	WESTAGO sarl		
Canada			
ACME VAN	Bureau Veritas Commodities Canada Ltd - Vancouver		
ACTLABS CAN	Activation Laboratories Ltd (Canada)		
ACTLABS TB	Activation Laboratories Ltd - Thunder Bay		
AGAT CALGARY	AGAT Laboratories - Calgary		
AGAT ONTARIO	AGAT Laboratories - Mississauga		
AGAT TB	AGAT Laboratories - Thunder Bay		
ALSM QUEBEC	ALS Minerals (Val d'Or)		
ALSM VAN	ALS Minerals - Vancouver		
BV ONTARIO	Bureau Veritas Ontario		
ELEONORE	Goldcorp - Eleonore		
HEMLO MINE	Williams Operating Corporation		
MCEWEN BLACK FOX	MCEWEN Mining Black Fox		
MSALABS LANGLEY	MSALABS Langley		
MUSSELWHITE	Mussselwhite Mine Laboratory		
NEW BRIT MILL	Flin Flin Mine Laboratory		
NEWCREST RED CHRIS	Newcrest Red Chris JV		
NMAL TIMMINES	Northern Mining Analytical Laboratory		
PORCUPINE	Newmont - Porcupine		
SGS COCHRANE	SGS Cochrane		
SGS LAKEFIELD	SGS Lakefield (Ontario)		
SGS RED LAKE	SGS Red Lake		
SGS VANCOUVER	SGS Vancouver		
YOUNG-DAVIDSON	AuRico Gold - Young-Davidson		
Chile			
ALSM SANTIAGO	ALS Minerals - Santiago		
GEO ASSAY GROUP	Geo Assay Group		
China			
ALSM CHINA	ALS Minerals - Guangzhou (China)		
ZIJIN TESTING CHINA	Fujian Zijin Mining and Metallurgy Testing Technology Co., Ltd		
Cote d'Ivoire			
BV COTE	Bureau Veritas Mineral Laboratories Cote d'Ivoire		
SGS AGBAOU CI	SGS Côte d'Ivoire S.A. Agbaou		
SGS ITY CI	SGS Côte d'Ivoire S.A. ITY		
Democratic Republic of Congo			
SGS KAMOA	SGS Kamoa		
Dominican Republic			
PUEBLO VIEJO	Pueblo Viejo Laboratorio		
Ecuador			
AURELIAN ECUADOR	Aurelian Ecuador		
England			
WARDELL ENGLAND	Wardell Armstrong		
Eritrea			
SGS BISHA	SGS Bisha		
Ethiopia			
MIDROC LEGADEMBI	Midroc Gold Mine PLC - Legadembi		
Fiji			
LIONONE FUJ	Lion One Limited		
Finland			
CRS KEMPELE	CRS Laboratories - Kempele		
CRS OUTOKUMPU	CRS Laboratories - Outokumpu		
EUROFINS OULU	Eurofins Ahma Oy		
LABTIUM FIN	Eurofins Labtium Oy		
Ghana			
ALSM GHANA	ALS Minerals - Ghana		
ITS GHANA	Intertek Minerals Ltd (Ghana)		
NEW AHAFO GHANA	Ahafo Mine Site Laboratory		
SGS EHS OBUASI	AGA Envi Site Obuasi Envi Laboratory		
SGS ITS AKYEM	SGS ITS AKYEM		
SGS SOLUSERV	SGS Soluserv Obuasi		
SGS TARKWA	SGS Laboratories (Tarkwa)		
Greece			
HELLAS GREECE	Hellas Gold		
India			
INSP GANHIDHAM	Inspectorate Griffith India Pvt. Ltd. - Gandhidham		
INSP UDAIPUR	Inspectorate Griffith India Pvt. Ltd. - Udaipur		
SHIVA INDIA	Shiva Analyticals (India) Ltd		
Indonesia			
GEO SERVICES IND	PT Geoservices Ltd		
ITS GOSOWONG	Gosowong Gold Project Lab		
ITS INDO	Intertek Testing Services, Jakarta		
ITS MARTABE	Intertek Services - Martabe		
ITS TUJUH BUKIT	Intertek Tujuh Bukit		
ITS UTAMA	Intertek Utama Services Manado		
MURO IMK INDO	PT Indo Muro Kencana		
PT SUCOFINDO TIMIKA	Sucofindo Timika Laboratory		
SGS BAKAN	SGS Bakan		
SUCOFINDO CIBITUNG	Sucofindo Cibitung Laboratory		
WETAR	PT Geoservices Ltd - Wetar		
Iran			
IMPRC IRAN	Iran Mineral Processing Research Center (IMPRC)		
Ireland			
ALSM IRELAND	Omac Laboratories - Ireland		
BOLDEN TARA	Bolden Tara Mines		
Kazakhstan			
ALSM AKBAKAY	ALS Minerals - Akbakay		
ALSM KARAGANDA	ALS Minerals - Karaganda		
ALSM PUSTYNOE	ALS Minerals - Pustynnoe		
Kyrgyz Republic			
KAZ MINERALS	Kaz Minerals		
SAEL KYRGYZSTAN	Stewart Assay and Environmental Laboratories LLC		
Lao PDR			
ALSM LAOS	ALS Minerals Vientiane (Laos)		
PHU BIA LAOS	Phu Bia Mining Limited		
SEPON LAOS	Lane Xang Minerals		
Mali			
BV BAMAKO	Bureau Veritas Mineral Mali		
SADIOLA MALI	Sadiola Mine Site Laboratory		
SGS BAMAKO	SGS Minerals Services (Bamako)		
SGS KOMANA	SGS Komana		
SGS LOULO	SGS Loulo		
SGS NAMPALA	SGS Nampala		
SGS SYAMA	SGS Minerals Syama Laboratory		
Mauritania			
ANARPAM	Office Mauritanien des Recherches Géologiques		
MCM SA	Mauritania Copper Mines SA		
Mexico			
BV MINERALS MEX	Inspectorate de México S.A. de C.V.		
CUZCATLAN MEXICO	Compañía Minera Cuzcatlán S. A. de C. V.		
MCEWEN MEXICO	McEwen Mining Mexico		
MULATOS SONORA	Alamos Gold - Mulatos Mine		
PENASQUITO	Newmont - Penasquito		
SGM CHIHUAHUA	Centro Experimental Chihuahua		
Mongolia			
ALSM MONGOLIA	ALS Group LLC		
Morocco			
MANAGEM REMINEX	Reminex Centre de Recherche		
Namibia			
DUNDEE PMT	Dundee Precious Metals Tsumeb		
New Zealand			
SGS NZ MACRAES	SGS New Zealand, Macraes Laboratory		
SGS NZ WAIHI	SGS New Zealand, Minerals Laboratory		
Panama			
ALSM PANAMA	ALS Panama S.A.		
Papua New Guinea			
INTERTEK HV	Intertek Hidden Valley		
ITS K92 PNG	ITS (PNG) Limited K92 Laboratory		
ITS MOROBE	ITS (PNG) Limited		
LIHIR	Lihir Gold - Minesite Laboratory		
Peru			
ACT SKYLINE PERU	Actlabs Skyline Peru SAC		
ALSM LIMA	ALS Peru SA		
CERTIMIN	Certimin S.A.		
CERTIMIN CERRO LINDO	Certimin S.A. - Cerro Lindo		
CERTIMIN LA ARENA	Certimin S.A. - La Arena		
ENSAYOS PERU	Ensayos Tecnicos Labmin SRL		
MINERA YANACOCCHA	Minera Yanacocha SRL - Newmont Lab (Peru)		
SGS LIMA	SGS del Peru SAC		
Philippines			
DOST PHILIPPINES	Department of Science and Technology		
ITS PHILIPPINES	Intertek Testing Services Philippines		
Romania			
ALSM ROMANIA	ALS Romania		
Saudi Arabia			
ALAMRI JEDDAH	Al Amri Laboratory		
ALSM JEDDAH	ALS Minerals - Arabia		
MBCC JABAL SAYID	MBCC Jabal Sayid Mine		
Senegal			
SGS MAKO	SGS Mako		
SGS SABODALA	SGS Sabodala		
Serbia			
SGS BOR	SGS Bor		
South Africa			
ALSM JOBURG	ALS Minerals - Johannesburg		
RAPPA RESEARCH	Rappa Research Laboratory		
SCI SER	Scientific Services Pty Ltd		
SGS BARBERTON	Performance Laboratories Barberton		
SGS RANDFONTEIN	Performance Laboratories (PLR)		
SGS VAAL RIVER	SGS Vaal River		
Sudan			
DAL SUDAN	DAL Mining Services		
MANAGEM MANUB	Manub for Mining Co Ltd		
Suriname			
FILAB SURINAME	Filab Suriname		
NEW MERIAN	Newmont - Merian Assay Lab		
Tanzania			
GEITA TANZ	Geita Gold Mine Laboratory		
NESCH MINTEC TANZ	Nesch Mintec Tanzania Ltd		
NORTH MARA	North Mara Minesite Laboratory		
SGS MWANZA	African Assay Laboratories (Tanzania) Ltd		
Turkey			
ACME TURKEY	Acme Analytical Laboratories Ltd - Ankara Turkey		
ALSM TURKEY	ALS Minerals - Turkey		
ANAGOLD TURK	Anagold Madencilik San Ve Tic.A.S.		
CAYELI BAKIR TURKEY	Cayeli Bakir Isletmeleri A.S.		
DEMIR ANKARA			
DEMIR WAREHOUSE	Demir Export Warehouse Laboratory		
ESAN ECZACIBASI IST	Esan Eczacibasi Endustriyel Hammaddeler San. Ve Tic. A.S. - Istanbul		
ESAN ECZACIBASI KONYA	Esan Eczacibasi Endustriyel Hammaddeler San. Ve Tic. A.S. Konya		
KOZAGOLD HIMMETDEDE	Koza Gold Mine Himmetdede Laboratory		
KOZAGOLD KAYMAZ	Koza Gold Mine Kaymaz Laboratory		
KOZAGOLD MASTRA	Koza Gold Mine Mastra Laboratory		
KOZAGOLD TURKEY	Koza Gold Mine Laboratory		
MTA TURKEY	MTA Genel Mudurlugu		
SGS TURKEY	SGS Turkey		
TUMAD TURKEY	Tumad Turkey		
United States of America			
ALLABS	American Assay Laboratories		
ACZ COLORADO	ACZ Laboratories Inc		
ALSE TUCSON	ALS Houston		
ALSM RENO	ALS Minerals - Reno		
BV NEVADA	Inspectorate America Corporation - Sparks		
CORTEZ MINE	Cortez JV Mine Assay Lab		
ELI-B MONTANA	Energy Laboratories, Inc. - Billings, MT USA		
ELI-H MONTANA	Energy Laboratories, Inc. - Helena, MT USA		
FLORIN RENO	Fiore Gold Pan Mine		
FLSMIDTH USA	Flsmidth Analytical Services		
FORT KNOX	Fort Knox Assay Lab		
FORTE COLORADO	Forte Analytical		
GOLDSTRIKE	Barrick Analytical Laboratory		
MCCLELLAND NEV	McClelland Laboratories, Inc.		
NEW CCV	Newmont - Cripple Creek and Victor		
NEW MET SER	Newmont Metallurgical Services		
NGM GQ	Newmont Mining Corporation - Carlin Assay Lab		
NGM TWIN CM	Newmont - Twin Creek Mine		
PACE ANALYTICAL WY	Inter-Mountain Laboratories		
PARAGON NEVADA	Paragon Geochemical		
ROUND MOUNT MINE	Round Mountain Gold Assay Lab		
RTKC UTAH	Rio Tinto Kennecott Copper		
RTKC UTAH ENV	Rio Tinto Kennecott Copper - Environmental Lab		
SGS KERSHAW	SGS Kershaw Mineral Lab		
SKYLINE ARIZONA	Skyline Assayers & Laboratories - Arizona		
SVL ANALYTICAL	SVL Analytical, Inc.		
Zambia			
AHK KITWE	Alfred H Knight Zambia Ltd		
ALSM KANSANSHI	ALS Minerals - Kansanshi		
KANSANSHI ZAMBIA	Kansanshi Mining PLC		
LUMWANA MINE	Lumwana Mine Site Lab		
MISENGE ZAMBIA	Misenge Environmental & Technical Services Limited		
SGS KALULUSHI	SGS Inspection Services Zambia		
Zimbabwe			
ANTECH	Antech Laboratories		
BINDURA ZIM	Bindura Nickel Corporation Limited		
FREDA ZIM	Freda Rebecca Gold Mine		
PERF ZIMBABWE	Performance Laboratories Zimbabwe		
Commercial Laboratory	Laboratory that reported some results after the database was closed.		
Minesite Laboratory			
Government Laboratory			

REPORT ON LABORATORY SURVEY – April 2022

A round robin to measure the accuracy of gold, silver, sulphur and base metal analyses from 220 laboratories was conducted during April 2022. The results of this survey are a measure of the ability of a laboratory to accurately analyse a pre-prepared pulp.

The ability of a laboratory to crush, split and prepare the sample without contamination is not measured by this survey. Knowledge of sampling machinery and the ability to design efficient flow systems with in-built homogeneity checks is required in order to develop confidence in the sample preparation.

The samples submitted to the laboratories consisted of:

- 10 gold samples
- 5 low level gold samples
- 6 gold and silver on carbon samples
- 10 geochemical base metal samples
- 6 ore-grade base metal samples
- 10 sulphur and carbon samples

Companies operating more than one laboratory have received extra filler samples, which are not used in the calculations. The Geostats numbering system makes it extremely difficult for any comparison of results from one laboratory to the next. This provides a level playing field for all laboratories, whether they are sole operators or members of a large laboratory group.

We use a double entry system to build an accurate database. Two individuals enter all the data and when complete these two files are cross-checked and the source data is consulted to rectify any errors. The mean values used for calculations in this study are checked visually by preparing histograms. Outliers are removed and the remaining population distributions are tested for normality. All outliers are checked back to the original assay report for a third and final time.

GOLD SAMPLES

Three lots of gold samples were submitted to the laboratories, one lot for fire assay, one for aqua regia digest (or similar) and one for low-level gold. BV Ontario performed Neutron Activation Analysis on all samples, reporting a gold + 33 element analysis which has been included at the end of this report. BV Ontario can be contacted through Anuradha Ramesh at anuradha.ramesh@bureauveritas.com

GOLD AND SILVER ON CARBON SAMPLES

Six gold and silver on carbon samples were included in this survey, both loaded and barren. The method of analysis for these samples was left up to the individual laboratories.

GEOCHEM BASE METAL SAMPLES

The base metal samples were analysed for copper, lead, zinc, nickel, arsenic, silver and cobalt. The method of analysis for base metal samples was left to the discretion of the laboratory manager. However, the report groups them into Total (typically 4 acid digest or fusion) and Partial (all others, mainly aqua regia) methods. Maxxam Ontario performed Neutron Activation Analysis and these have been included in the Total digest group. Methods are listed in the results page for the respective analyte.

ORE GRADE BASE METAL SAMPLES

Six ore-grade and/or concentrate samples are included in the survey. These are assayed primarily for copper, lead, zinc, nickel, silver and sulphur. Other elements are reported but not in sufficient numbers for inclusion in the report. These high-grade materials are analysed at the chemist's discretion but almost always using ore-grade techniques. Some use classical analyses while others use XRF or other methods. However, some of these products have, for example, high lead but low copper and the method for copper analysis may be inappropriate for low levels. Owing to this characteristic, only higher grade analyses are plotted in the related charts.

SULPHUR SAMPLES

Ten samples for sulphur and carbon analysis were prepared for the survey. These ten new samples are a good mix of values with sulphur values up to 21.5% and carbon values up to 2.9%.

All of the certified reference materials used in this survey are available for purchase.

RESULTS

The results of the analyses are presented in three forms:

1. A table showing values as reported from the laboratories. These are presented in columns according to their respective sample identifiers, with each result's standardised Z value also displayed. Outliers are highlighted and assigned a Z value of 3.00 or -3.00. General statistics are listed at the top of each table.
2. Bar chart for each element showing the sum of absolute standardised values divided by the count of absolute standardised values.
3. Bar chart for the mean of standardised values.

EXAMINATION OF RESULTS - METHODOLOGY

1. Double entry of all data and validation by cross-checking. Confirm any anomalous values.
2. Produce basic statistics on results, including:
 - a. count
 - b. mean
 - c. median
 - d. standard deviation
 - e. minimum
 - f. maximum
 - g. error (95% Confidence Interval)
 - h. percentage error of mean (error as a percentage of the calculated mean).
3. Produce summary statistics and assay sheet.
4. Run outlier macro to find obvious outlier values.
5. Generate 'Z' intervals for remaining data (from calculated mean).
6. Check that median and mean are similar to verify a normal distribution.
7. Standardise remaining values i.e. subtract the mean and divide by the standard deviation.

8. Add results from each laboratory in 'standardised values' calculations (positive and negative) and divide by count.
9. Produce 'Mean of Standardised Values' Bar Charts.
10. Add absolute values from each laboratory in 'standardised values' calculations.
11. Divide result by count of results to calculate average absolute standard value for laboratory performance on each element.
12. Produce 'Mean of Absolute Standardised Values' Bar Charts.

CHARTS

The 'Mean of Standardised Values' charts (blue in reports) indicate any bias shown by laboratories on a particular element, but do not show any general error which might be plus and minus the mean. The 'Mean of Absolute Standardised Values' charts (red in reports) indicate the general error but no bias.

INTERPRETATION OF RESULTS

SUMMARY STATISTICS AND ASSAY TABLES

These tables are self-explanatory. The row titled 'error' refers to the margin of error expected at 95% confidence. That is, the standard normal probability or 'Z' statistic representing 95% (1.96) is multiplied by the standard deviation and the result is divided by the square root of the population. We can be 95% confident that the true mean lies between mean minus error and mean plus error. The row titled '% error in mean' is simply this margin of error expressed as a percentage of the calculated mean. Outliers are highlighted and not used for calculations at the top of the tables.

STANDARDISED VALUES

These numbers are generated using the following formula. Reported value minus the mean, result of this divided by the standard deviation. This creates a new distribution with mean '0' and standard deviation '1'. Positive and negative numbers result from this calculation depending on whether the reported value is above or below the mean. Laboratories reporting outliers are manually assigned 3.00 or -3.00 as these results have been removed from automatic calculation. The higher the absolute number reported, the further the reported assay is from the calculated mean.

MEAN OF ABSOLUTE STANDARDISED VALUES (RED CHARTS)

The bar representing each laboratory is the mean of the sum of the absolute standardised values reported on all assays of the element in question. That is, the absolute sum of the rows in the Standardised Values Table divided by the number of assays. These charts give a visual representation to the general error shown by the particular laboratories. These charts do not show bias.

MEAN OF STANDARDISED VALUES (BLUE CHARTS)

These charts show the mean of standardised values with negative values included. A direction of error or bias can be interpreted from laboratories showing high values, negative or positive.

BRIEFLY

General error is indicated in absolute column charts (red charts).

Bias is indicated in negative/positive column charts (blue charts).

The column charts show indications of error or direction of error - check the real data in the tables before coming to any decision as to the significance of this error. Also pay attention to the grade of the standard materials with regard to the laboratory level of detection. Some laboratories may report outliers due to the limitations of their methodology.

LEGEND FOR METHODS & READINGS

METHODS

READINGS

1A	1 Acid Digest	AAS	Atomic Absorption Spectroscopy
2A	2 Acid Digest	DIBK	DIBK Extraction
3A	3 Acid Digest	ES	ICP - Emission Spectroscopy
4A	4 Acid Digest	GRAV	Gravimetric
5A	5 Acid Digest	ICP	Inductively Coupled Plasma - Unspecified
AD	Acid Digest	IR	Infrared
AR	Aqua Regia	MS	ICP - Mass Spectroscopy
CSA	Carbon and Sulphur Analyser	XRF	X-Ray Fluorescence
FA	Fire Assay		
FUS	Fusion		
GF	Graphite Furnace		
IH	In House Method		
MICR	Microwave		
NAA	Neutron Activation Analysis		
PP	Pressed Powder		
PR	Pre-Roast		
TITR	Titration		

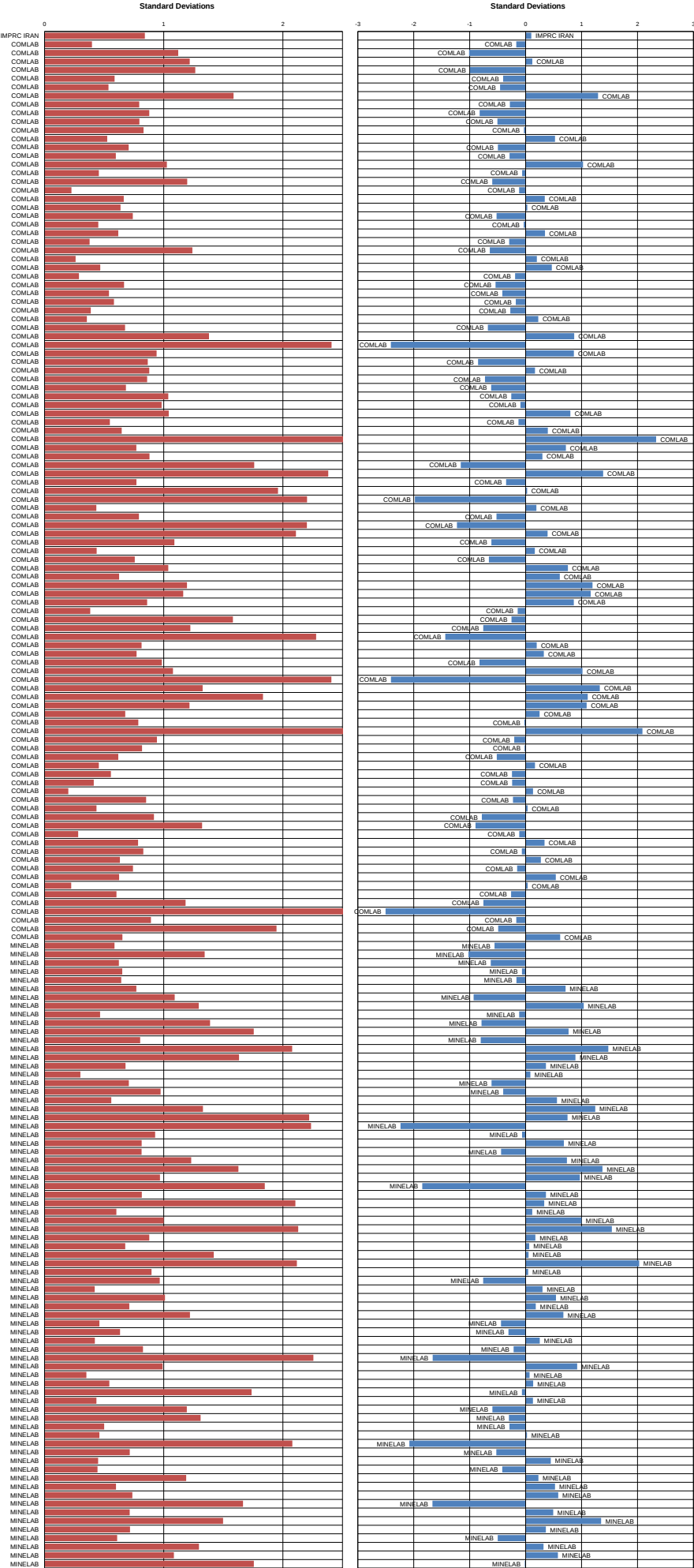
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Lead (Partial Digest)	21 & 22
Zinc (Total Digest)	23 & 24
Zinc (Partial Digest)	25 & 26
Nickel (Total Digest)	27 & 28
Nickel (Partial Digest)	29 & 30
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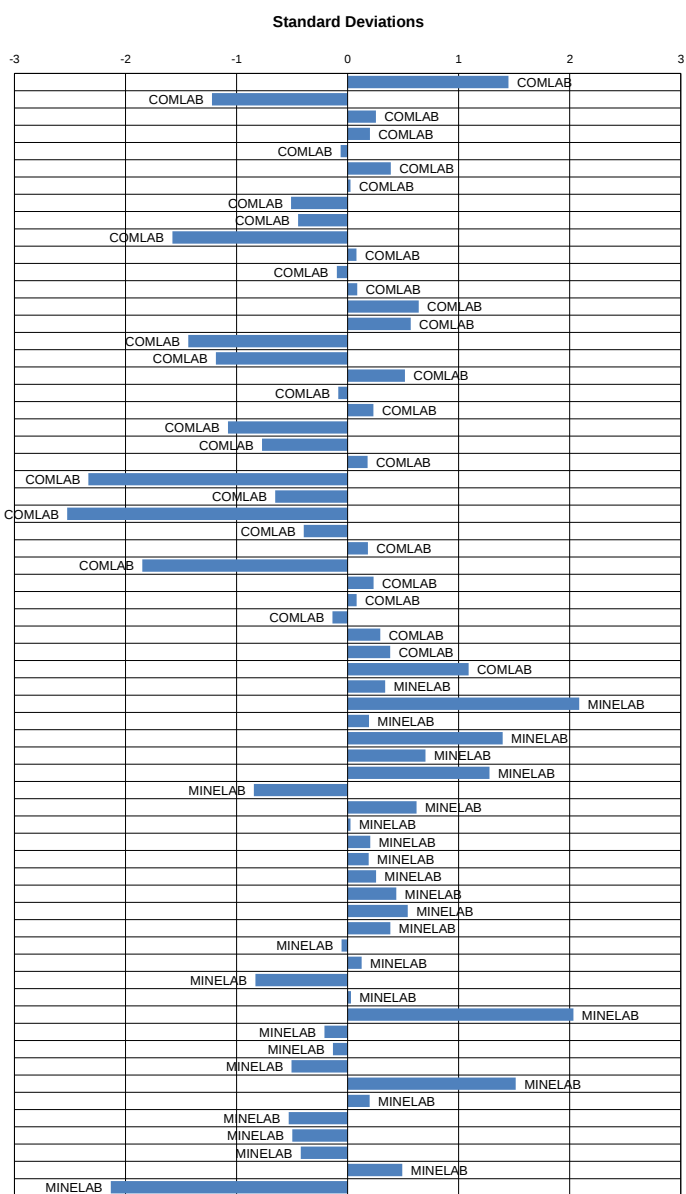
Highlighted values are outliers which are assigned a z-score of -3.00 or 3.00 in the standardised values.



Aqua Regia Gold Round Robin - Summary Statistics, Assays, Standardised Values and Graphs - April 2022

Standard Reference	G322-1	G322-2	G322-3	G322-4	G322-5	G322-6	G322-7	G322-8	G322-9	G322-10
MEAN (ppm)	0.32	0.64	0.32	2.39	1.15	1.62	0.41	1.07	4.24	3.82
STDEV (ppm)	0.03	0.04	0.02	0.11	0.05	0.07	0.03	0.05	0.18	0.16
95% CI (ppm)	0.01	0.01	0.01	0.03	0.01	0.02	0.01	0.01	0.05	0.05
95% CI (%)	2.56%	1.79%	1.65%	1.27%	1.24%	1.14%	2.13%	1.32%	1.19%	1.22%
MIN (ppm)	0.25	0.56	0.27	2.11	1.01	1.46	0.34	0.95	3.76	3.41
MEDIAN (ppm)	0.32	0.64	0.32	2.40	1.15	1.61	0.41	1.07	4.23	3.82
MAX (ppm)	0.39	0.71	0.36	2.63	1.24	1.76	0.48	1.21	4.63	4.10
IQR (ppm)	0.03	0.05	0.02	0.13	0.07	0.06	0.04	0.06	0.22	0.22
COUNT	50	49	49	50	49	49	51	53	50	48

Standard Reference	G322-1		G322-2		G322-3		G322-4		G322-5		G322-6		G322-7		G322-8		G322-9		G322-10		Method	Reading	
Lab Reference	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score			
COMLAB	0.33	0.39	0.69	1.32	0.32	0.12	2.67	2.56	1.33	3.00	1.75	2.07	0.44	1.02	1.11	0.79	4.56	1.80	4.05	1.43	NAA		
COMLAB	0.25	-2.45	0.56	-1.92	0.29	-1.59	2.33	-0.59	1.08	-1.31	1.40	-3.00	0.40	-0.23	1.03	-0.75	4.19	-0.26	3.80	-0.11	AR	MS	
COMLAB	0.33	0.25	0.62	-0.44	0.34	1.09	2.42	0.25	1.10	-0.91	1.60	-0.23	0.40	-0.23	1.09	0.40	4.36	0.68	4.09	1.68	PR,AR	MS	
COMLAB	0.32	-0.09	0.61	-0.68	0.31	-0.52	2.42	0.25	1.12	-0.51	1.67	0.84	0.42	0.41	1.08	0.21	4.47	1.30	3.95	0.82	AR	MS	
COMLAB	0.32	-0.09	0.70	1.54	0.32	0.01	2.33	-0.59	1.10	-0.91	1.60	-0.23	0.40	-0.23	1.05	-0.36	4.22	-0.10	3.87	0.32	AR	MS	
COMLAB	0.33	0.29	0.64	0.03	0.34	1.09	2.55	1.45	1.15	0.08	1.64	0.38	0.42	0.44	1.06	-0.17	4.20	-0.21	3.90	0.51	AR	MS	
COMLAB	0.30	-0.76	0.64	0.06	0.32	0.01	2.54	1.36	1.14	-0.12	1.62	0.07	0.40	-0.23	1.09	0.40	4.15	-0.49	3.81	-0.05	AR	MS	
COMLAB	0.31	-0.42	0.60	-0.93	0.32	0.01	2.33	-0.59	1.10	-0.91	1.60	-0.23	0.39	-0.55	1.04	-0.56	4.18	-0.32	3.72	-0.60	AR	MS	
COMLAB	0.32	-0.09	0.60	-0.93	0.32	0.01	1.99	-3.00	1.15	0.08	1.55	-1.00	0.41	0.09	1.09	0.40	4.25	0.07	3.80	-0.11	AR	ES	
COMLAB	0.28	-1.44	0.56	-1.92	0.29	-1.59	2.11	-2.62	1.05	-1.90	1.41	-3.00	0.35	-1.83	0.98	-1.71	4.21	-0.15	3.88	0.38	AR		
COMLAB	0.29	-1.04	0.60	-0.88	0.35	1.54	2.31	-0.80	1.20	1.00	1.65	0.54	0.40	-0.20	1.01	-1.20	4.30	0.35	4.06	1.47	PR,AR	MS	
COMLAB	0.31	-0.49	nr	nr	0.32	-0.04	2.39	-0.03	1.14	-0.12	1.67	0.84	0.43	0.67	1.09	0.40	4.10	-0.77	3.60	-1.34	AR	MS	
COMLAB	0.32	-0.12	0.76	3.00	0.33	0.77	2.40	0.08	1.15	0.00	1.61	-0.14	0.41	-0.07	1.07	0.10	4.20	-0.21	3.41	-2.54	AR	AAS	
COMLAB	0.35	0.90	0.68	1.05	0.32	0.18	2.42	0.25	1.15	0.08	1.70	1.30	0.43	0.63	1.08	0.21	4.35	0.63	4.01	1.18	AR	MS	
COMLAB	0.33	0.19	0.66	0.65	0.32	0.01	2.52	1.17	1.17	0.48	1.65	0.53	0.43	0.63	1.07	0.02	4.45	1.19	3.95	0.82	AR	MS	
COMLAB	0.31	-0.42	0.60	-0.93	0.30	-1.06	2.23	-1.51	1.09	-1.11	1.48	-2.07	0.34	-2.14	0.98	-1.71	3.76	-2.66	3.70	-0.73	AR	AAS	
COMLAB	0.33	0.25	0.58	-1.43	0.27	-2.67	2.21	-1.70	1.10	-0.91	1.47	-2.22	0.38	-0.87	1.00	-1.33	3.99	-1.38	3.88	0.38	AR	MS	
COMLAB	0.32	-0.09	0.68	1.05	0.33	0.55	2.45	0.52	1.22	1.47	1.67	0.84	0.46	1.69	1.00	-1.33	4.14	-0.54	3.98	1.00	AR	AAS	
COMLAB	0.33	0.25	0.66	0.55	0.33	0.55	2.30	-0.86	1.12	-0.51	1.65	0.53	0.42	0.41	1.04	-0.56	4.04	-1.10	3.80	-0.11	AR	AAS	
COMLAB	0.29	-1.03	0.64	-0.04	0.35	1.36	2.26	-1.23	1.17	0.48	1.76	2.22	0.42	0.44	1.07	0.02	4.19	-0.26	3.88	0.38	AR	MS	
COMLAB	0.36	1.27	0.64	0.06	0.32	0.01	0.27	-3.00	1.15	0.08	1.20	-3.00	0.39	-0.55	0.08	-3.00	4.30	0.35	2.41	-3.00	FA	AAS	
COMLAB	0.30	-0.76	0.56	-1.92	0.28	-2.13	2.31	-0.77	0.89	-3.00	1.57	-0.69	0.34	-2.14	0.95	-2.29	4.83	3.00	4.33	3.00	PR,AR	AAS	
COMLAB	0.33	0.25	0.66	0.55	0.30	-1.06	2.52	1.17	1.01	-2.70	1.66	0.69	0.42	0.41	1.13	1.17	4.59	1.97	3.71	-0.66	AR	MS	
COMLAB	0.30	-0.10	-3.00	-0.10	-3.00	-0.10	-3.00	2.40	0.06	-0.10	-3.00	1.10	-3.00	-0.10	-3.00	1.10	0.60	2.40	-3.00	1.10	-3.00	AR	AAS
COMLAB	0.32	-0.09	0.61	-0.68	0.32	0.01	2.39	-0.03	1.11	-0.71	1.53	-1.31	0.39	-0.55	1.02	-0.94	4.09	-0.82	3.59	-1.40	AR	ICP	
COMLAB	0.04	-3.00	0.35	-3.00	0.20	-3.00	2.35	-0.40	0.68	-3.00	1.24	-3.00	0.26	-3.00	0.61	-3.00	0.48	-3.00	3.68	-0.85	FA	AAS	
COMLAB	0.33	0.12	0.62	-0.41	0.31	-0.41	2.42	0.22	1.17	0.38	1.56	-0.91	0.42	0.44	1.04	-0.60	4.28	0.22	1.63	-3.00	FA	AAS	
COMLAB	0.33	0.25	0.68	1.05	0.34	1.09	2.40	0.06	1.16	0.28	1.63	0.23	0.42	0.41	1.11	0.79	4.15	-0.49	3.52	-1.83	AR	AAS	
COMLAB	0.30	-0.93	0.56	-1.92	0.29	-1.70	2.22	-1.58	1.05	-1.88	1.46	-2.33	0.35	-1.89	0.98	-1.73	3.96	-1.53	3.33	-3.00	AR	AAS	
COMLAB	0.33	0.25	0.62	-0.44	0.32	0.01	2.38	-0.12	1.17	0.48	1.60	-0.23	0.39	-0.55	1.05	-0.36	4.29	0.29	4.50	3.00	AR	AAS	
COMLAB	0.30	-0.76	0.65	0.31	0.34	1.09	2.48	0.80	1.19	0.87	1.58	-0.54	0.38	-0.87	1.02	-0.94	4.41	0.96	3.80	-0.11	AR	DIBK,AAS	
COMLAB	0.30	-0.76	0.65	0.31	0.32	0.01	2.42	0.25	1.12	-0.51	1.60	-0.23	0.38	-0.87	1.06	-0.17	4.50	1.46	3.68	-0.85	AR	AAS	
COMLAB	0.50	3.00	0.63	-0.19	0.30	-1.06	2.50	0.99	1.16	0.28	1.59	-0.39	0.38	-0.87	1.09	0.40	4.24	0.02	3.94	0.75	AR	AAS	
COMLAB	3.45	3.00	0.66	0.55	0.33	0.55	1.38	-3.00	1.20	1.07	1.73	1.76	0.42	0.41	1.14	1.37	2.91	-3.00	4.00	1.12	AR		
COMLAB	0.36	1.27	0.66	0.55	0.38	3.00	2.46	0.62	1.19	0.87	1.68	0.99	0.48	2.33	1.14	1.37	3.93	-1.71	4.08	1.62	AR	AAS	
MINELAB	0.37	1.61	0.65	0.31	0.35	1.62	2.37	-0.22	1.15	0.08	1.59	-0.39	0.41	0.09	1.10	0.60	4.12	-0.65	nr	nr	FA	AAS	
MINELAB	0.38	1.95	0.71	1.79	0.36	2.16	2.63	2.19	1.31	3.00	1.84	3.00	0.44	1.05	1.21	2.71	4.50	1.46	4.07	1.55	AR,DIBK	AAS	
MINELAB	0.35	0.86	0.63	-0.16	0.32	0.18	2.42	0.26	1.14	-0.14	1.59	-0.37	0.40	-0.36	1.09	0.40	4.29	0.31	3.97	0.94	AR	AAS	
MINELAB	0.36	1.27	0.69	1.29	0.37	2.70	2.60	1.91	1.29	2.86	1.73	1.76	0.47	2.01	1.16	1.75	4.47	1.30	3.35	-2.88	FA	AAS,GRAV	
MINELAB	0.37	1.61	0.66	0.55	0.33	0.55	2.54	1.36	1.24	1.87	1.65	0.53	0.43	0.73	1.10	0.60	4.04	-1.10	3.87	0.32	AR	AAS	
MINELAB	0.38	1.95	0.70	1.54	0.38	3.00	2.52	1.17	1.24	1.87	1.71	1.45	0.45	1.37	1.13	1.17	4.18	-0.32	3.75	-0.42	AR	DIBK,AAS	
MINELAB	0.27	-1.91	0.60	-1.05	0.32	0.23	2.14	-2.37	1.10	-0.95	1.60	-0.28	0.42	0.54	1.01	-1.21	4.19	-0.25	3.63	-1.18	AR	AAS	
MINELAB	0.33	0.25	0.66	0.55	0.34	1.09	2.48	0.80	1.18	0.68	1.64	0.38	0.42	0.41	1.12	0.98	4.37	0.74	3.87	0.32	AR,DIBK	AAS	
MINELAB	0.31	-0.42	0.65	0.31	0.31	-0.52	2.38	-0.12	1.10	-0.91	1.59	-0.39	0.43	0.73	1.09	0.40	4.36	0.68	3.90	0.51	AR,DIBK	AAS	
MINELAB	0.33	0.25	0.64	0.06	0.32	0.01	2.45	0.52	1.15	0.08	1.64	0.38	0.46	1.69	1.10	0.60	4.11	-0.71	3.68	-0.85	AR,DIBK		
MINELAB	0.39	2.28	0.64	0.06	0.31	-0.52	2.34	-0.49	1.15	0.08	1.63	0.23	0.45	1.37	1.05	-0.36	4.19	-0.26	3.74	-0.48	AR	AAS	
MINELAB	0.33	0.25	0.66	0.55	0.34	1.09	2.42	0.25	1.15	0.08	1.63	0.23	0.43	0.73	1.10	0.60	4.04	-1.10	3.80	-0.11	AR	AAS	
MINELAB	0.40	2.62	0.68	1.05	0.36	2.16	2.50	0.99	1.14	-0.12	1.54	-1.15	0.50	2.97	1.09	0.40	3.47	-3.00	3.57	-1.53	FA	AAS,GRAV	
MINELAB	0.33	0.25	0.65	0.31	0.34	1.09	2.46	0.62	1.20	1.07	1.64	0.38	0.42	0.41	1.12	0.98	4.28	0.24	3.83	0.08	AR	AAS	
MINELAB	0.35	0.93	0.71	1.79	0.32	0.01	2.39	-0.03	1.22	1.47	1.59	-0.39	0.44	1.05	1.06	-0.17	4.31	0.41	3.62	-1.22	AR	DIBK,AAS	
MINELAB	0.32	-0.09	0.63	-0.19	0.31	-0.52	2.38	-0.12	1.20	1.07	1.57	-0.69	0.43	0.73	1.11	0.79	4.27	0.18	3.54	-1.71	AR	AAS	
MINELAB	0.29	-1.10	0.70	1.54	0.31	-0.52	2.45	0.52	1.21	1.27	1.60	-0.23	0.40	-0.23	1.14	1.37	4.29	0.29	3.55	-1.65	AR	AAS	
MINELAB	0.33	0.25	0.5																				

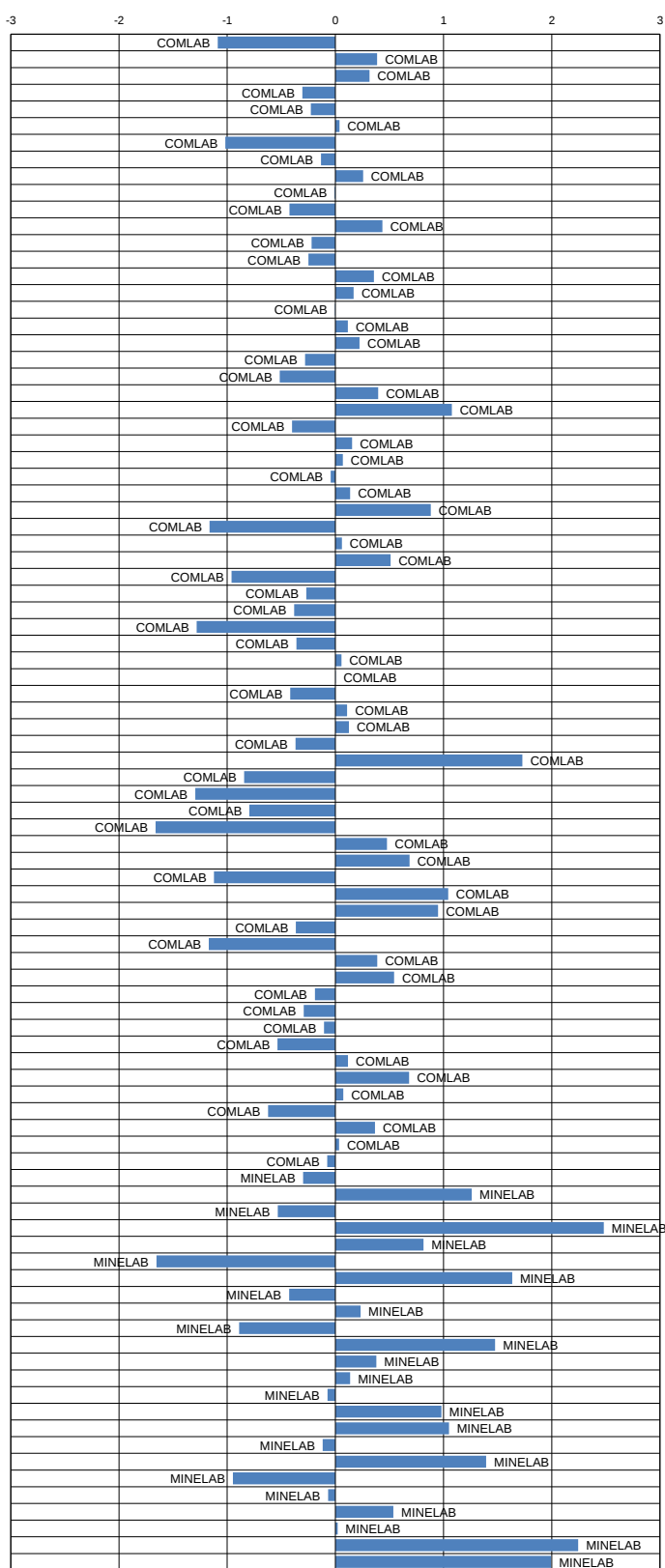


Low Grade Gold Round Robin - Summary Statistics, Assays, Standardised Values and Graphs - April 2022

Standard Reference	GLG322-1	GLG322-2	GLG322-3	GLG322-4	GLG322-5
MEAN (ppb)	328	202	199	10	31
STDEV (ppb)	21	10	10	4	4
95% CI (ppb)	4	2	2	1	1
95% CI (%)	1.37%	1.04%	1.10%	7.96%	2.53%
MIN (ppb)	276	177	177	2	21
MEDIAN (ppb)	327	202	200	10	31
MAX (ppb)	387	229	228	20	40
IQR (ppb)	23	13	12	5	4
COUNT	88	86	87	74	83

Standard Reference	GLG322-1		GLG322-2		GLG322-3		GLG322-4		GLG322-5		Method	Reading
Lab Reference	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score		
COMLAB	326	-0.09	186	-1.62	179	-1.95	8	-0.68	27	-1.11	FA	MS
COMLAB	313	-0.70	202	0.00	202	0.28	14	0.98	36	1.37	FA	AAS
COMLAB	322	-0.27	200	-0.20	199	-0.02	12	0.43	37	1.65	FA	AAS
COMLAB	321	-0.33	198	-0.37	205	0.52	7	-0.95	30	-0.39	FA	AAS
COMLAB	327	-0.04	203	0.10	191	-0.79	10	-0.12	30	-0.28	FA	ES
COMLAB	327	-0.04	196	-0.58	194	-0.55	13	0.65	34	0.71	FA	AAS
COMLAB	316	-0.56	185	-1.72	180	-1.85	13	0.70	25	-1.66	FA	AAS
COMLAB	326	-0.09	204	0.20	201	0.18	6	-1.23	32	0.27	PR,AR	MS
COMLAB	336	0.38	205	0.30	201	0.18	8	-0.68	35	1.10	FA	ES
COMLAB	335	0.34	194	-0.81	205	0.57	11	0.15	30	-0.28	FA	ES
COMLAB	346	0.85	197	-0.51	195	-0.40	5	-1.50	29	-0.56	FA	AAS
COMLAB	345	0.80	199	-0.31	195	-0.40	17	1.81	32	0.27	FA	AAS
COMLAB	322	-0.27	199	-0.31	198	-0.11	10	-0.12	30	-0.28	FA	AAS
COMLAB	316	-0.56	200	-0.20	204	0.47	9	-0.40	29	-0.56	FA	ES
COMLAB	357	1.37	201	-0.10	203	0.37	10	-0.12	32	0.27	FA	AAS
COMLAB	337	0.43	204	0.20	197	-0.21	11	0.15	32	0.27	FA	AAS
COMLAB	327	-0.04	200	-0.20	200	0.08	11	0.15	31	-0.01	FA	ES
COMLAB	337	0.43	203	0.10	201	0.18	13	0.70	28	-0.83	FA	ES
COMLAB	319	-0.41	202	0.00	205	0.57	10	-0.12	35	1.10	FA	AAS
COMLAB	327	-0.04	199	-0.31	201	0.18	8	-0.68	29	-0.56	FA	ES
COMLAB	308	-0.94	193	-0.94	192	-0.66	10	-0.21	32	0.19	FA	ES
COMLAB	313	-0.71	211	0.94	214	1.46	9	-0.40	33	0.68	AR	AAS
COMLAB	380	2.45	213	1.11	190	-0.89	150	3.00	30	-0.28	FA	AAS
COMLAB	312	-0.74	187	-1.52	206	0.66	11	0.15	29	-0.56	FA	MS
COMLAB	348	0.94	206	0.40	206	0.66	8	-0.68	29	-0.56	FA	ES
COMLAB	300	-1.31	212	1.01	210	1.05	11	0.15	29	-0.56	NAA	
COMLAB	316	-0.56	209	0.70	205	0.57	8	-0.65	30	-0.28	FA	MS
COMLAB	326	-0.09	210	0.81	203	0.37	7	-0.95	33	0.54	FA	MS
COMLAB	356	1.32	209	0.70	228	2.79	9	-0.40	31	-0.01	FA	AAS
COMLAB	334	0.29	181	-2.13	185	-1.37	6	-1.23	26	-1.38	FA	AAS
COMLAB	331	0.15	208	0.60	193	-0.60	13	0.70	29	-0.56	FA	AAS
COMLAB	334	0.29	202	0.00	204	0.47	13	0.70	35	1.10	FA	AAS
COMLAB	298	-1.39	191	-1.16	186	-1.24	10	-0.23	28	-0.78	AR	GF,AAS
COMLAB	331	0.13	186	-1.61	177	-2.14	22	3.00	28	-0.72	FA	AAS
COMLAB	319	-0.41	193	-0.92	201	0.13	11	0.07	28	-0.78	FA	
COMLAB	320	-0.37	170	-3.00	200	0.08	10	-0.12	20	-3.00	FA	AAS
COMLAB	311	-0.79	200	-0.20	195	-0.40	12	0.43	28	-0.83	FA	ES
COMLAB	325	-0.13	205	0.30	196	-0.31	14	0.98	29	-0.56	FA	MS
COMLAB	317	-0.51	204	0.20	201	0.18	11	0.15	31	-0.01	FA	MS
COMLAB	373	2.12	162	-3.00	163	-3.00	14	0.98	34	0.82	FA	AAS
COMLAB	322	-0.27	200	-0.20	194	-0.50	10	-0.12	37	1.65	FA	AAS
COMLAB	348	0.94	206	0.40	199	-0.02	<20	bld	28	-0.83	FA	ES
COMLAB	276	-2.43	206	0.40	205	0.57	10	-0.21	30	-0.17	AR	MS
COMLAB	387	2.77	252	3.00	259	3.00	8	-0.68	33	0.54	AR	DIBK
COMLAB	313	-0.70	177	-2.53	192	-0.69	<30	bld	33	0.54	FA	AAS
COMLAB	299	-1.35	193	-0.91	194	-0.50	4	-1.78	24	-1.93	AR	MS
COMLAB	289	-1.83	195	-0.68	191	-0.79	9	-0.54	31	-0.14	AR	ICP
COMLAB	279	-2.31	145	-3.00	12	-3.00	157	3.00	<2	-3.00	FA	AAS
COMLAB	345	0.80	215	1.31	209	0.95	9	-0.40	30	-0.28	FA	AAS
COMLAB	345	0.80	213	1.11	219	1.92	9	-0.40	31	-0.01	FA,GF	AAS
COMLAB	308	-0.83	194	-0.81	189	-0.98	8	-0.68	23	-2.21	FA	ICP
COMLAB	320	-0.37	199	-0.31	198	-0.11	54	3.00	69	3.00	FA	MS
COMLAB	356	1.32	203	0.10	215	1.53	13	0.70	35	1.10	FA	GRAV
COMLAB	327	-0.04	197	-0.51	193	-0.60	9	-0.40	30	-0.28	FA	ES
COMLAB	293	-1.61	194	-0.85	189	-1.02	nr	nr	27	-1.19	AR	AAS
COMLAB	323	-0.23	209	0.70	207	0.76	13	0.70	31	-0.01	FA	ES
COMLAB	329	0.05	211	0.91	193	-0.60	12	0.43	38	1.92	AR	DIBK
COMLAB	320	-0.37	204	0.20	201	0.18	8	-0.68	30	-0.28	FA	MS
COMLAB	295	-1.54	195	-0.71	183	-1.56	14	0.98	36	1.37	FA	AAS
COMLAB	319	-0.41	198	-0.41	195	-0.40	13	0.70	31	-0.01	AR	MS
COMLAB	191	-3.00	212	1.04	196	-0.31	10	-0.12	30	-0.28	FA	AAS
COMLAB	324	-0.18	200	-0.20	202	0.28	14	0.98	30	-0.28	FA	AAS
COMLAB	310	-0.84	213	1.07	191	-0.75	14	0.92	68	3.00	FA	AAS
COMLAB	328	0.01	202	0.00	190	-0.89	10	-0.12	36	1.37	FA	ES
COMLAB	343	0.71	200	-0.20	203	0.37	6	-1.23	21	-2.76	FA	MS
COMLAB	350	1.04	216	1.41	189	-0.98	<5	bld	31	-0.01	FA	AAS
COMLAB	329	0.05	197	-0.51	187	-1.18	15	1.25	33	0.54	FA	AAS
COMLAB	339	0.52	219	1.72	182	-1.66	15	1.25	23	-2.21	FA	AAS
MINELAB	325	-0.13	194	-0.81	192	-0.69	12	0.43	30	-0.28	FA	AAS
MINELAB	366	1.79	214	1.21	209	0.95	14	0.98	36	1.37	FA	AAS
MINELAB	320	-0.39	189	-1.31	208	0.83	2	-2.34	33	0.55	AR	AAS
MINELAB	362	1.60	229	2.73	226	2.60	<30	bld	57	3.00	FA	AAS
MINELAB	330	0.10	190	-1.22	200	0.08	20	2.63	40	2.47		
MINELAB	287	-1.91	154	-3.00	205	0.55	2	-2.27	25	-1.63	FA	AAS
MINELAB	367	1.84	219	1.72	199	-0.02	<1	bld	43	3.00	FA	AAS
MINELAB	300	-1.31	200	-0.20	200	0.08	<10	bld	30	-0.28	AR	AAS
MINELAB	362	1.62	205	0.25	208	0.81	5	-1.50	31	-0.01	FA	AAS
MINELAB	247	-3.00	178	-2.40	178	-2.02	34	3.00	31	-0.03	FA	AAS
MINELAB	332	0.21	219	1.75	209	0.95	<36	bld	44	3.00	FA	AAS
MINELAB	327	-0.04	209	0.70	208	0.86	<10	bld	31	-0.01	AR	AAS
MINELAB	311	-0.79	200	-0.20	215	1.53	12	0.43	30	-0.28	FA	AAS
MINELAB	340	0.57	208	0.60	196	-0.31	6	-1.23	31	-0.01	FA	
MINELAB	358	1.39	213	1.09	211	1.15	13	0.68	33	0.60	AR	ES
MINELAB	327	-0.02	209	0.71	208	0.86	19	2.33	36	1.37	FA	ES
MINELAB	333	0.22	205	0.29	203	0.33	7	-1.09	30	-0.34	FA	AAS
MINELAB	353	1.18	219	1.72	207	0.76	<20	bld	38	1.92	FA	AAS
MINELAB	300	-1.31	195	-0.74	188	-1.12	5	-1.53	31	-0.03	FA	ES
MINELAB	331	0.15	198	-0.41	194	-0.50	13	0.70	30	-0.28	FA	ES
MINELAB	320	-0.37	200	-0.20	180	-1.85	20	2.63	40	2.47	FA	AAS
MINELAB	332	0.20	192	-1.00	206	0.68	10	-0.12	32	0.35	FA	AAS
MINELAB	339	0.50	225	2.27	225	2.45	34	3.00	59	3.00	FA	AAS
MINELAB	316	-0.57	217	1.53	253	3.00	54	3.00	98	3.00	FA	AAS

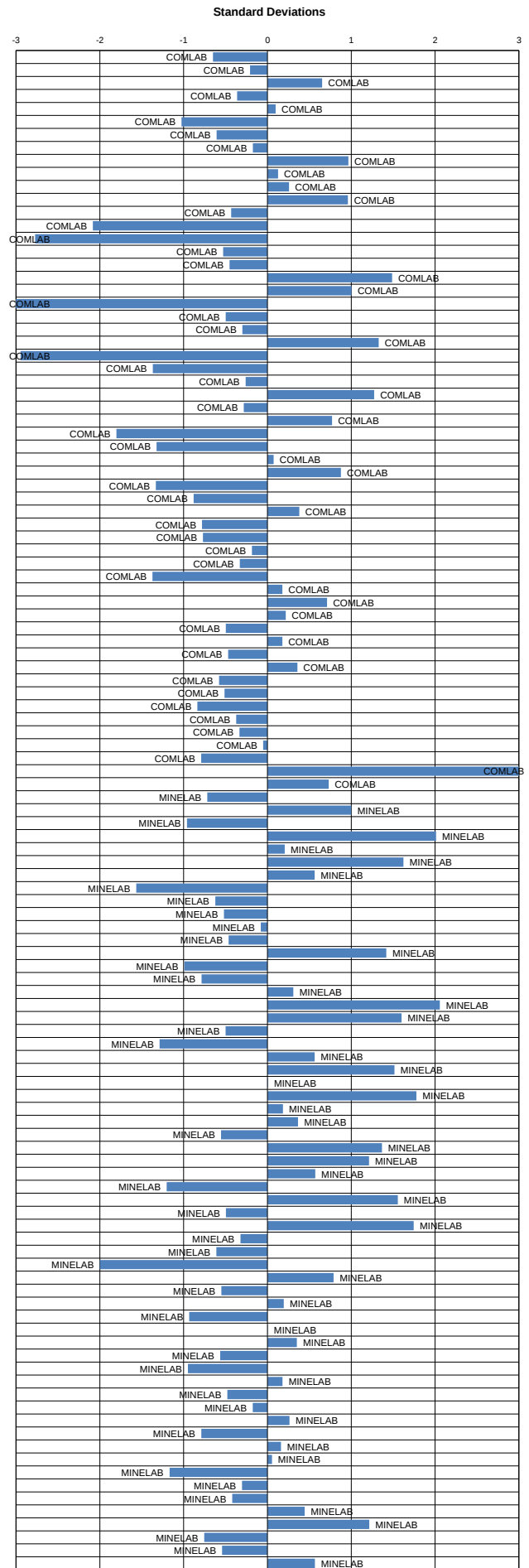
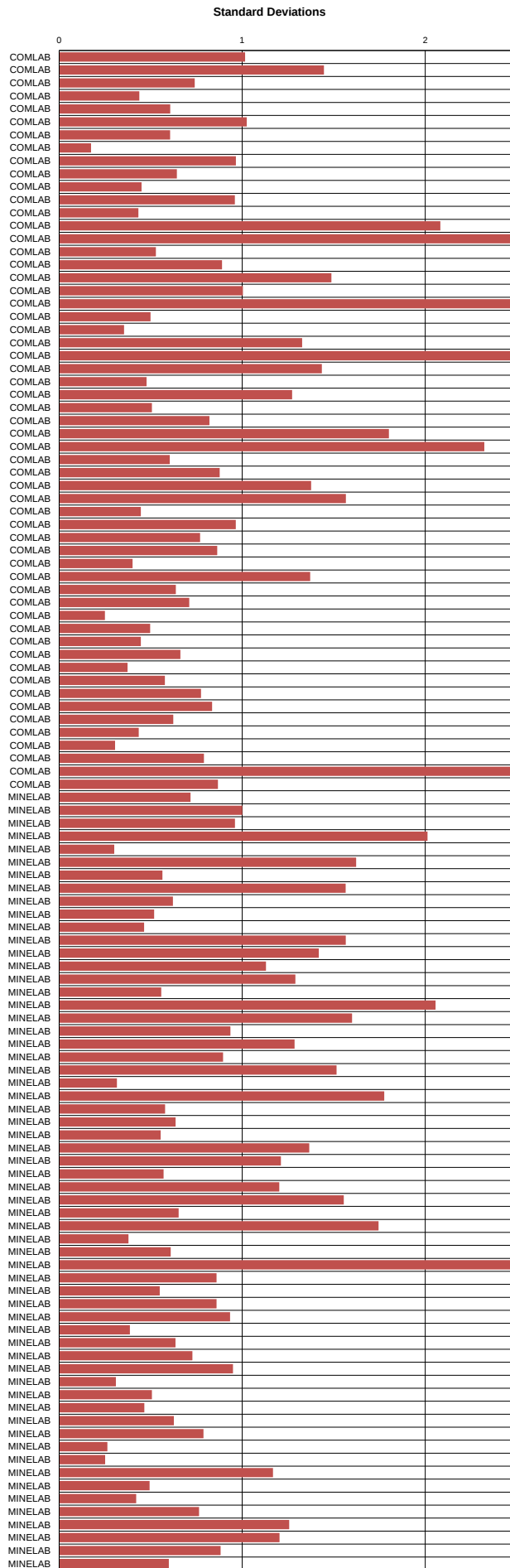
Highlighted values are outliers which are assigned a z-score of -3.00 or 3.00 in the standardised values.



Gold on Carbon Round Robin - Summary Statistics, Assays, Standardised Values and Graphs - April 2022

Standard Reference	GBC322-1	GLC322-1	GLC322-2	GLC322-3	GLC322-4	GLC322-5
MEAN (ppm)	473	1103	1985	3253	5013	4293
STDEV (ppm)	22	93	143	124	154	178
95% CI (ppm)	4	18	27	24	31	34
95% CI (%)	0.91%	1.60%	1.36%	0.73%	0.61%	0.79%
MIN (ppm)	424	854	1614	2979	4604	3800
MEDIAN (ppm)	470	1070	1948	3236	5008	4256
MAX (ppm)	529	1286	2303	3570	5371	4739
IQR (ppm)	133	133	204	170	206	225
COUNT	30	109	109	104	99	106

Standard Reference	GBC322-1		GLC322-1		GLC322-2		GLC322-3		GLC322-4		GLC322-5		Method	Reading
Lab Reference	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score		
COMLAB	453	-0.91	1050	-0.57	1910	-0.52	3270	0.14	5160	0.96	3480	-3.00	FA	GRAV
COMLAB	489	0.72	1070	-0.36	1870	-0.80	4760	3.00	3400	-3.00	4150	-0.80	FA	GRAV
COMLAB	492	0.85	1210	1.14	2150	1.16	3234	-0.15	4995	-0.11	4475	1.03	FA	GRAV
COMLAB	468	-0.22	1050	-0.58	1900	-0.59	3202	-0.41	5048	0.23	4186	-0.60	FA	GRAV
COMLAB	464	-0.41	1063	-0.43	1935	-0.35	3425	1.40	4960	-0.34	4420	0.72	AR	AAS
COMLAB	448	-1.13	1020	-0.89	1820	-1.15	3130	-0.99	4900	-0.73	4070	-1.25	PRAR	AAS
COMLAB	459	-0.63	1070	-0.36	1870	-0.80	3200	-0.43	4970	-0.28	4090	-1.14	PRAR	AAS
COMLAB	467	-0.27	1060	-0.46	1960	-0.17	3240	-0.10	5010	-0.02	4290	-0.01	AAS	
COMLAB	495	0.99	1130	0.29	2015	0.21	3380	1.03	5360	2.25	4475	1.03	AR	AAS
COMLAB	493	0.88	1166	0.67	2050	0.46	3201	-0.42	4838	-1.13	4345	0.29	FA	GRAV
COMLAB	461	-0.54	1110	0.07	1980	-0.03	3330	0.63	5200	1.22	4330	0.21	AAS	
COMLAB	502	1.30	1260	1.68	2180	1.37	3320	0.55	5070	0.37	4380	0.49	PRAR	AAS
COMLAB	464	-0.39	1042	-0.66	1893	-0.64	3215	-0.30	4995	-0.12	4206	-0.49	FA	GRAV
COMLAB	424	-2.21	1017	-0.92	1812	-1.21	297	-3.00	4604	-2.65	3848	-2.50	FA	GRAV
COMLAB	268	-3.00	883	-2.36	1614	-2.60	2857	-3.00	4399	-3.00	3817	-2.68	FA	AAS
COMLAB	455	-0.82	1036	-0.72	1884	-0.71	3221	-0.26	4983	-0.19	4207	-0.48	FA	GRAV
COMLAB	451	-1.00	1000	-1.11	1840	-1.01	3140	-0.91	5200	1.22	4310	0.10	PRAR	MS
COMLAB	514	1.84	1264	1.72	2231	1.72	3432	1.45	5139	0.82	4535	1.36	FA	GRAV
COMLAB	501	1.24	1247	1.54	2185	1.40	3365	0.91	5024	0.08	4445	0.86	FA	GRAV
COMLAB	52	-3.00	nr	nr	nr	nr	nr	nr	nr	nr	nr	nr	FA	GRAV
COMLAB	458	-0.68	1059	-0.47	1902	-0.58	3211	-0.34	5007	-0.04	4135	-0.89	FA	GRAV
COMLAB	469	-0.20	1053	-0.54	1901	-0.59	3216	-0.30	5038	0.17	4233	-0.33	FA	GRAV
COMLAB	508	1.57	1271	1.80	2229	1.71	3386	1.08	5116	0.67	4494	1.13	FA	GRAV,AAS
COMLAB	360	-3.00	854	-2.67	1360	-3.00	2261	-3.00	3762	-3.00	3264	-3.00	FA	AAS
COMLAB	395	-3.00	885	-2.34	1688	-2.08	3197	-0.45	5044	0.20	4196	-0.54	AR	AAS
COMLAB	473	0.00	1097	-0.07	1987	0.02	3331	0.63	4719	-1.90	4250	-0.24	FA	ES
COMLAB	503	1.35	1223	1.28	2175	1.33	3429	1.43	5270	1.67	4395	0.58	PRAD	AAS
COMLAB	488	0.67	1050	-0.57	1940	-0.31	3190	-0.51	4890	-0.80	4260	-0.18	AR	AAS
COMLAB	490	0.76	1089	-0.15	1989	0.03	3334	0.66	5560	3.00	4350	0.32	FA	GRAV
COMLAB	378	-3.00	1075	-0.30	1937	-0.33	3107	-1.18	4407	-3.00	3707	-3.00	FA	AAS
COMLAB	424	-2.21	993	-1.18	1765	-1.54	2434	-3.00	4148	-3.00	7591	3.00	FA	AAS
COMLAB	452	-0.93	1129	0.28	2054	0.48	3410	1.27	4958	-0.35	4239	-0.30		
COMLAB	487	0.63	1190	0.93	2180	1.37	3370	0.95	5090	0.50	4450	0.89	FA	GRAV
COMLAB	447	-1.18	1007	-1.04	1886	-0.69	2979	-2.21	4527	-3.00	4316	0.13	FA	GRAV
COMLAB	429	-2.01	921	-1.96	1651	-2.33	3163	-0.72	5330	2.05	4235	-0.32	IA	AAS
COMLAB	475	0.08	1143	0.43	1956	-0.20	3364	0.90	5072	0.38	4415	0.69	FA	GRAV
COMLAB	456	-0.77	1057	-0.50	1889	-0.67	3058	-1.58	5098	0.55	3988	-1.72	FA	GRAV
COMLAB	468	-0.23	1022	-0.87	1858	-0.89	3135	-0.95	4937	-0.49	4081	-1.19	AR	AAS
COMLAB	446	-1.22	1207	1.11	2012	0.19	3213	-0.32	4765	-1.61	4423	0.73	AD	ES
COMLAB	476	0.13	1071	-0.35	1872	-0.79	3182	-0.57	5025	0.08	4206	-0.49	FA	AAS,GRAV
COMLAB	449	-1.09	1016	-0.94	1770	-1.50	3045	-1.68	4741	-1.76	4068	-1.26	FA	ES
COMLAB	463	0.45	1210	1.14	2107	0.86	3200	-0.43	4870	-0.92	4207	-0.03	PRAR	AAS
COMLAB	496	1.03	1227	1.33	2154	1.19	3312	0.16	5038	0.16	4306	0.08	FA,PR	AAS,GRAV
COMLAB	472	-1.03	1137	0.36	2109	0.87	3271	0.15	5016	0.02	4282	-0.06	FA	AAS
COMLAB	464	-0.41	1042	-0.66	1870	-0.80	3194	-0.47	5008	-0.03	4184	-0.61	FA	AAS
COMLAB	477	0.18	1060	-0.46	1970	-0.10	3360	0.87	5140	0.83	4250	-0.24	AR	AAS
COMLAB	486	0.58	1090	-0.14	1880	-0.73	3150	-0.83	4850	-1.05	4180	-0.63	PRAR	AAS
COMLAB	472	-0.05	1110	0.07	2040	0.39	3360	0.87	5070	0.37	4390	0.49	AR	AAS
COMLAB	465	-0.36	1037	-0.71	1898	-0.61	3192	-0.49	4922	-0.59	4167	-0.71	FA	GRAV
COMLAB	491	0.79	1096	-0.08	1893	-0.64	3043	-1.69	4848	-1.07	4225	-0.38	FA	AAS
COMLAB	458	-0.68	1050	-0.57	1882	-0.72	3098	-1.25	4870	-0.92	4138	-0.87	PRAR	AAS
COMLAB	470	-0.14	1039	-0.69	1880	-0.73	3346	0.75	4905	-0.70	4164	-0.72	PRAR	AAS
COMLAB	453	-0.91	1061	-0.45	1936	-0.34	3268	0.12	5041	0.18	4186	-0.60		ES
COMLAB	490	0.76	1060	-0.46	1970	-0.10	3230	-0.18	5000	-0.08	4250	-0.24	PRAR	AAS
COMLAB	461	-0.54	1041	-0.67	1884	-0.71	3151	-0.82	4847	-1.07	4127	-0.93	PRAR	AAS
COMLAB	546	3.00	1400	3.00	2561	3.00	3968	3.00	5936	3.00	5248	3.00		
COMLAB	464	-0.41	1237	1.43	2074	0.63	3385	1.07	5088	0.49	4502	1.18	PRAR	AAS
COMLAB	469	-0.16	1035	-0.73	1860	-0.87	3160	-0.75	4838	-1.13	4175	-0.66	FA	AAS
COMLAB	486	0.58	1249	1.56	2188	1.42	3410	1.27	5045	0.21	4462	0.95	FA	GRAV
COMLAB	441	-1.43	1013	-0.97	1898	-0.61	3188	-0.53	4799	-1.39	4144	-0.84	FA	GRAV
COMLAB	550	3.00	1540	3.00	2259	1.92	3423	1.38	5154	0.92	4623	1.86	FA	AAS,GRAV
COMLAB	485	0.53	1115	0.13	1948	-0.26	3249	-0.03	5100	0.57	4346	0.30	FA	AAS
COMLAB	510	1.65	1278	1.87	2254	1.88	3461	1.69	5173	1.04	4578	1.61	FA	GRAV
COMLAB	477	0.17	1211	1.15	2124	0.97	3270	0.14	5025	0.08	4447	0.87	FA	GRAV
COMLAB	458	-0.68	1063	-0.43	1844	-0.99	3064	-1.53	4463	-3.00	3800	-2.77		XRF
COMLAB	458	-0.68	1042	-0.66	1883	-0.71	3194	-0.47	4939	-0.48	4163	-0.73	FA	GRAV
COMLAB	451	-1.00	1061	-0.45	1882	-0.72	3213	-0.32	4992	-0.13	4205	-0.49	FA	GRAV
COMLAB	465	-0.35	1062	-0.44	1932	-0.37	3314	0.50	5114	0.66	4208	-0.48	AR,DIBK	AAS
COMLAB	499	1.17	1047	-0.60	1856	-0.90	3057	-1.58	3895	-3.00	4673	2.14	FA	AAS
COMLAB	510	1.66	1286	1.95	2217	1.63	3399	1.18	5127	0.74	4531	1.34		
COMLAB	395	-3.00	1142	0.41	1974	-0.07	3152	-0.81	4718	-1.91	4192	-0.57	FA	GRAV
COMLAB	451	-1.00	1175	0.77	2091	0.74	3061	-1.55	4404	-3.00	4171	-0.68	FA	GRAV
COMLAB	475	0.09	1080	-0.25	2087	0.72	3412	1.29	4936	-0.50	4383	0.51	FA	AAS
COMLAB	574	3.00	1233	1.39	2200	1.51	3516	2.13	5371	2.32	4646	1.99	PRAR	AAS
COMLAB	511	1.71	1266	1.74	2195	1.47	3416	1.32	5143	0.85	4739	2.51	PRAR	AAS
COMLAB	438	-1.56	969	-1.44	1875	-0.77	3340	0.71	4930	-0.53	4399	0.60	PRAR	AAS
COMLAB	448	-1.13	994	-1.17	1818	-1.17	3028	-1.82	4860	-0.99	4036	-1.44	AR	AAS
COMLAB	491	0.79	1231	1.37	2162	1.24	3337	0.68	4859	-1.00	4344	0.29	FA	GRAV
COMLAB	492	0.83	1273	1.82	2210	1.58	3478	1.83	5200	1.21	4617	1.82	AR	AAS
COMLAB	490	0.76	1122	0.20	1954	-0.21	3245	-0.06	4947	-0.43	4252	-0.23	AR	AAS
COMLAB	500	1.21	1269	1.78	2289	2.13	3570	2.57	5172	1.03	4637	1.94		AAS
COMLAB	473	0.00	1088	-0.16	2013	0.20	3143	-0.89	5336	2.10	4269	-0.13	AR	AAS
COMLAB	473	-0.03	1102	-0.02	1937	-0.34	3229	-0.19	5506	3.00	4248	-0.25	AR	AAS
COMLAB	449	-1.09	1041	-0.67	1894	-0.64	3200	-0.43	5000	-0.08	4216	-0.43	FA	GRAV
COMLAB	506	1.50	1256	1.64	2231	1.72	3412	1.29	5128	0.75	4523	1.29	FA	GRAV
COMLAB	496	1.02	1248	1.55	2207	1.55	3354	0.82	5150	0.89	4549	1.44	FA	GRAV
COMLAB	485													



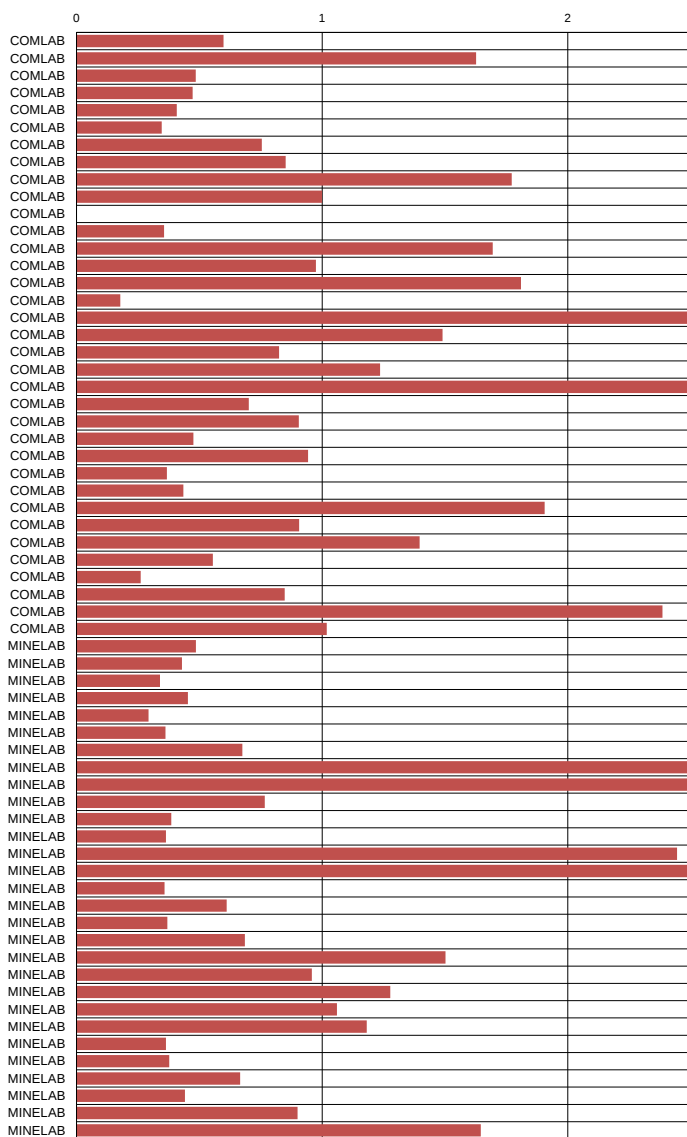
Silver on Carbon Round Robin - Summary Statistics, Assays, Standardised Values and Graphs - April 2022

Standard Reference	GBC322-1	GLC322-1	GLC322-2	GLC322-3	GLC322-4	GLC322-5
MEAN (ppm)	68	560	1002	1619	2435	1841
STDEV (ppm)	31	61	92	105	203	138
95% CI (ppm)	8	16	24	29	55	37
95% CI (%)	12.11%	2.89%	2.40%	1.76%	2.27%	2.03%
MIN (ppm)	9	407	824	1416	1897	1520
MEDIAN (ppm)	70	550	979	1610	2468	1829
MAX (ppm)	144	697	1210	1894	2880	2195
IQR (ppm)	37	83	117	141	186	154
COUNT	55	55	57	53	53	53

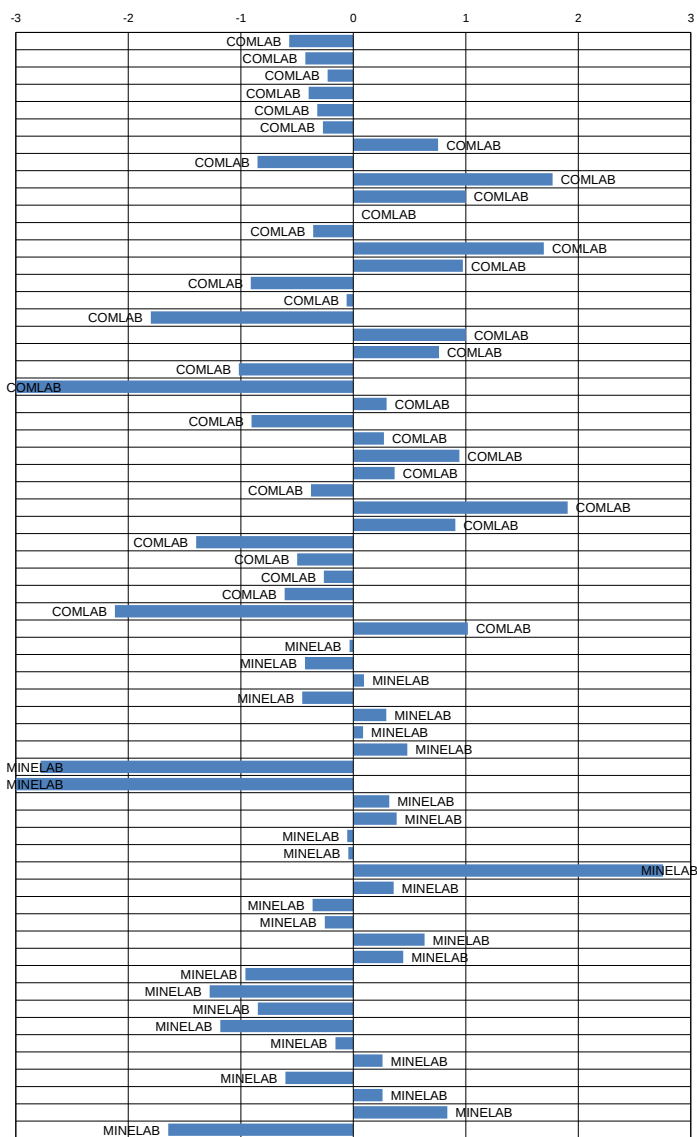
Standard Reference	GBC322-1		GLC322-1		GLC322-2		GLC322-3		GLC322-4		GLC322-5		Method	Reading
Lab Reference	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score		
COMLAB	76	0.26	546	-0.22	976	-0.28	1610	-0.08	2450	0.07	1520	-2.33	FA	GRAV
COMLAB	38	-0.97	481	-1.30	959	-0.47	<3	-3.00	4120	3.00	1790	-0.37	FA	GRAV
COMLAB	100	1.04	583	0.39	983	-0.21	1498	-1.15	2348	-0.43	1876	0.25	FA	GRAV
COMLAB	78	0.32	518	-0.69	945	-0.62	1572	-0.45	2474	0.19	1784	-0.41	FA	GRAV
COMLAB	59	-0.29	514	-0.75	972	-0.33	1610	-0.08	2480	0.22	1750	-0.66	PR,AR	AAS
COMLAB	87	0.61	534	-0.43	941	-0.67	1595	-0.23	2474	0.19	1810	-0.23	FA	GRAV
COMLAB	80	0.39	608	0.80	1077	0.82	1703	0.80	2509	0.36	1977	0.99	AR	ICP
COMLAB	<100	bld	486	-1.21	894	-1.17	1521	-0.93	2397	-0.19	1738	-0.75	FA	GRAV
COMLAB	132	2.08	697	2.27	1202	2.18	1782	1.56	2660	1.10	2082	1.75	FA	GRAV
COMLAB	91	0.75	647	1.44	1112	1.20	1688	0.66	2560	0.61	1990	1.08	FA	GRAV
COMLAB	136	2.22	nr	nr	nr	nr	nr	nr	nr	nr	nr	nr	FA	GRAV
COMLAB	94	0.84	553	-0.11	954	-0.52	1608	-0.10	2381	-0.27	1733	-0.78	FA	GRAV
COMLAB	9	-1.90	605	0.75	1098	1.05	1894	2.62	2754	1.57	2183	2.49	FA	GRAV
COMLAB	83	0.49	634	1.23	1131	1.40	1685	0.63	2563	0.63	1976	0.98	AD	AAS
COMLAB	231	3.00	662	1.69	1053	0.55	1402	-2.07	1947	-2.40	1520	-2.33	AR	AAS
COMLAB	43	-0.81	543	-0.27	983	-0.21	1616	-0.03	2496	0.30	1829	-0.09	AR	AAS
COMLAB	<50	bld	83	-3.00	355	-3.00	496	-3.00	120852	3.00	<50	-3.00	AR	AAS
COMLAB	800	3.00	598	0.64	1176	1.89	1490	-1.23	2577	0.70	2260	3.00		
COMLAB	90	0.71	550	-0.16	1180	1.94	1730	1.06	2530	0.47	1910	0.50	FA	GRAV
COMLAB	<50	bld	407	-2.52	914	-0.96	1676	0.55	2318	-0.58	1623	-1.58	FA	GRAV
COMLAB	64	-0.14	353	-3.00	572	-3.00	958	-3.00	901	-3.00	691	-3.00	1A	AAS
COMLAB	144	2.46	611	0.85	973	-0.31	1668	0.47	2675	1.18	1745	-0.70	FA	GRAV
COMLAB	65	-0.10	487	-1.20	889	-1.23	1514	-1.00	2309	-0.62	1775	-0.48	AR	AAS
COMLAB	71	0.11	595	0.59	1017	0.16	1611	-0.08	2348	-0.43	1995	1.12	AD	ES
COMLAB	105	1.20	640	1.33	1121	1.30	1709	0.86	2532	0.48	1945	0.76	FA,PR	AAS
COMLAB	72	0.15	nr	nr	1036	0.37	nr	nr	nr	nr	nr	nr	AR	AAS
COMLAB	75	0.23	523	-0.60	929	-0.79	1586	-0.31	2465	0.15	1797	-0.32	FA	AAS
COMLAB	55	-0.42	694	2.22	1210	2.26	1790	1.63	2880	2.19	2010	1.23	PR,AR	AAS
COMLAB	46	-0.71	574	0.24	1080	0.85	1790	1.63	>2000	ald	>2000	ald	AR	AAS
COMLAB	31	-1.20	493	-1.10	859	-1.56	1484	-1.28	>2000	ald	1614	-1.65	PR,AR	AAS
COMLAB	80	0.40	514	-0.75	965	-0.40	1476	-1.36	2464	0.14	1824	-0.12	PR,AR	AAS
COMLAB	30	-1.23	545	-0.24	985	-0.18	1600	-0.18	>2000	ald	1780	-0.44	PR,AR	AAS
COMLAB	62	-0.19	512	-0.79	939	-0.68	1623	0.04	1993	-2.17	1917	0.55	PR,AR	AAS
COMLAB	21	-1.52	354	-3.00	1063	0.66	1157	-3.00	1975	-2.26	832	-3.00		
COMLAB	76	0.27	636	1.26	1134	1.44	1712	0.89	2543	0.53	1976	0.98	PR,AR	AAS
MINELAB	61	-0.21	529	-0.51	948	-0.58	1597	-0.21	2638	0.99	1860	0.14	PR,AR	AAS
MINELAB	78	0.34	523	-0.60	939	-0.69	1577	-0.40	2435	0.00	1778	-0.46	FA	
MINELAB	86	0.58	601	0.68	1033	0.34	1568	-0.48	2410	-0.13	1850	0.07	FA	GRAV
MINELAB	124	1.82	539	-0.34	953	-0.53	1536	-0.79	2427	-0.04	1763	-0.57		XRF
MINELAB	163	3.00	602	0.70	1008	0.07	1635	0.15	2534	0.48	1849	0.06	FA	GRAV
MINELAB	60	-0.25	550	-0.16	962	-0.44	1609	-0.09	2573	0.67	1903	0.45	3A	AAS
MINELAB	46	-0.70	557	-0.05	961	-0.44	1713	0.90	2685	1.23	1946	0.76	AR,DIBK	AAS
MINELAB	169	3.00	271	-3.00	593	-3.00	1282	-3.00	2049	-1.90	1346	-3.00	FA	GRAV
MINELAB	16	-1.68	291	-3.00	495	-3.00	736	-3.00	1079	-3.00	824	-3.00	AD	ICP
MINELAB	38	-0.97	507	-0.87	979	-0.25	1764	1.38	2517	0.40	1969	0.93		AAS
MINELAB	70	0.07	568	0.14	1039	0.40	1643	0.23	2660	1.10	1848	0.05	PR,AR	
MINELAB	29	-1.26	590	0.50	1027	0.27	1571	-0.45	2395	-0.20	1787	-0.39	PR,AR	AAS
MINELAB	162	3.00	894	3.00	870	-1.43	1948	3.00	2071	-1.79	1380	-3.00	PR,AR	AAS
MINELAB	133	2.10	693	2.19	1342	3.00	2182	3.00	3607	3.00	2195	2.57	FA	GRAV
MINELAB	29	-1.27	598	0.63	1054	0.56	1623	0.04	2536	0.50	1850	0.07	AR	AAS
MINELAB	<50	bld	539	-0.34	950	-0.56	1533	-0.82	2562	0.62	1743	-0.71	AR	AAS
MINELAB	26	-1.37	528	-0.52	975	-0.29	1550	-0.65	2417	-0.09	1881	0.29		AAS
MINELAB	41	-0.87	587	0.45	990	-0.13	1740	1.15	2724	1.42	1878	0.27	AR	AAS
MINELAB	70	0.07	594	0.57	1099	1.06	1806	1.79	1897	-2.65	2041	1.45	AR	AAS
MINELAB	71	0.10	493	-1.10	901	-1.10	1505	-1.08	2357	-0.39	1686	-1.13	FA	GRAV
MINELAB	62	-0.18	499	-1.01	881	-1.31	1452	-1.59	2172	-1.29	1678	-1.18	FA	GRAV
MINELAB	81	0.43	591	0.53	992	-0.11	1432	-1.78	2070	-1.80	1691	-1.09	FA	GRAV
MINELAB	32	-1.16	485	-1.23	909	-1.01	1462	-1.49	2243	-0.95	1672	-1.23	PR,AR	ES
MINELAB	81	0.42	534	-0.42	952	-0.54	1628	0.09	2522	0.43	1794	-0.34	FA	GRAV
MINELAB	80	0.40	608	0.81	1062	0.66	1599	-0.19	2414	-0.11	1859	0.13	FA	GRAV
MINELAB	69	0.03	485	-1.24	898	-1.14	1580	-0.37	2468	0.16	1781	-0.43	3A	AAS
MINELAB	71	0.10	532	-0.45	1027	0.27	1691	0.69	2494	0.29	1910	0.50	AR	AAS
MINELAB	31	-1.20	639	1.31	1180	1.94	1723	0.99	2455	0.10	1819	-0.16	PR,AR	AAS
MINELAB	56	-0.39	478	-1.35	824	-1.94	1416	-1.93	2193	-1.19	1590	-1.82	PR	AAS

Highlighted values are outliers which are assigned a z-score of -3.00 or 3.00 in the standardised values. Insufficient reliable results were received for the highlighted material. These results do not contribute to the error charts.

Standard Deviations



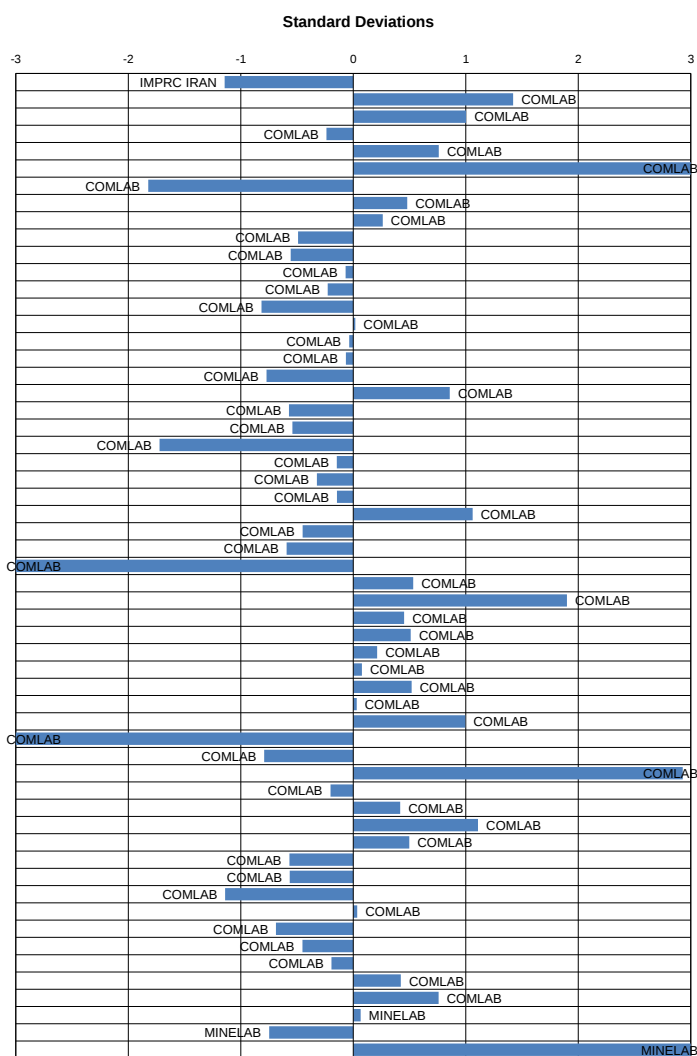
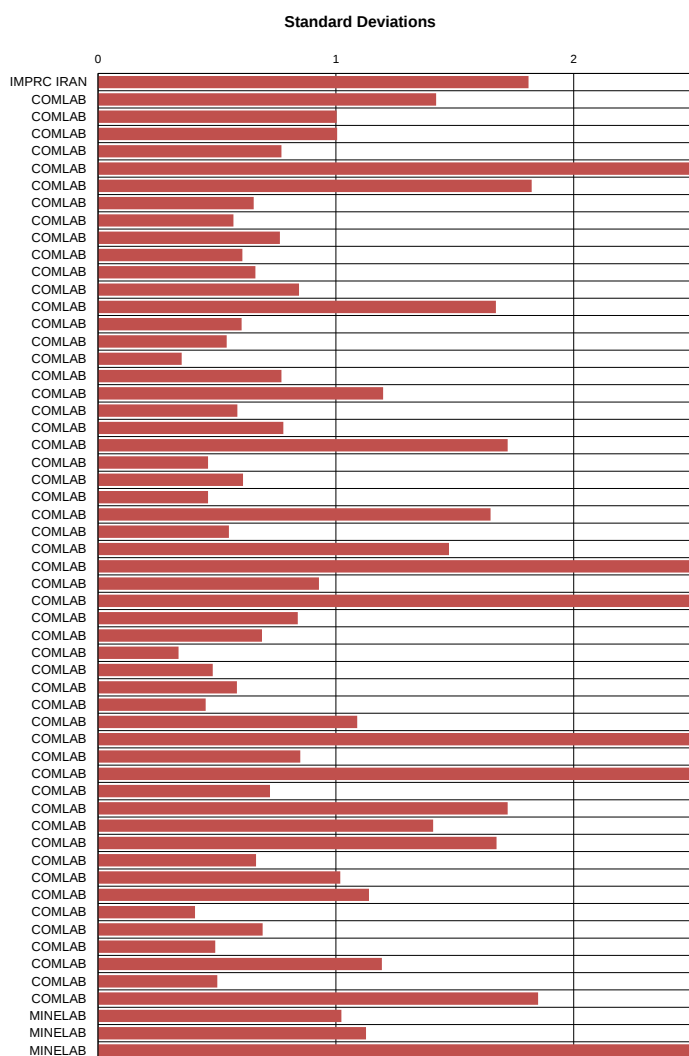
Standard Deviations



Silver (Total Digest) Round Robin - Summary Statistics, Assays, Standardised Values and Graphs - April 2022

Standard Reference	GBM322-1	GBM322-2	GBM322-3	GBM322-4	GBM322-5	GBM322-6	GBM322-7	GBM322-8	GBM322-9	GBM322-10
MEAN (ppm)	0.6	0.5	1.5	2.3	1.6	1.3	1.6	8.4	3.2	3.0
STDEV (ppm)	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.5	0.2	0.1
95% CI (ppm)	0.0	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.0
95% CI (%)	6.10%	11.15%	3.00%	2.24%	3.93%	4.25%	3.88%	1.63%	1.85%	1.46%
MIN (ppm)	0.4	0.2	1.2	2.0	1.0	0.9	1.1	7.5	2.7	2.7
MEDIAN (ppm)	0.5	0.5	1.5	2.3	1.6	1.3	1.5	8.3	3.1	3.0
MAX (ppm)	0.8	0.8	1.8	2.7	2.0	1.7	2.1	9.7	3.6	3.4
IQR (ppm)	0.1	0.1	0.3	0.3	0.2	0.2	0.3	0.6	0.3	0.2
COUNT	38	29	43	48	49	47	48	52	47	42

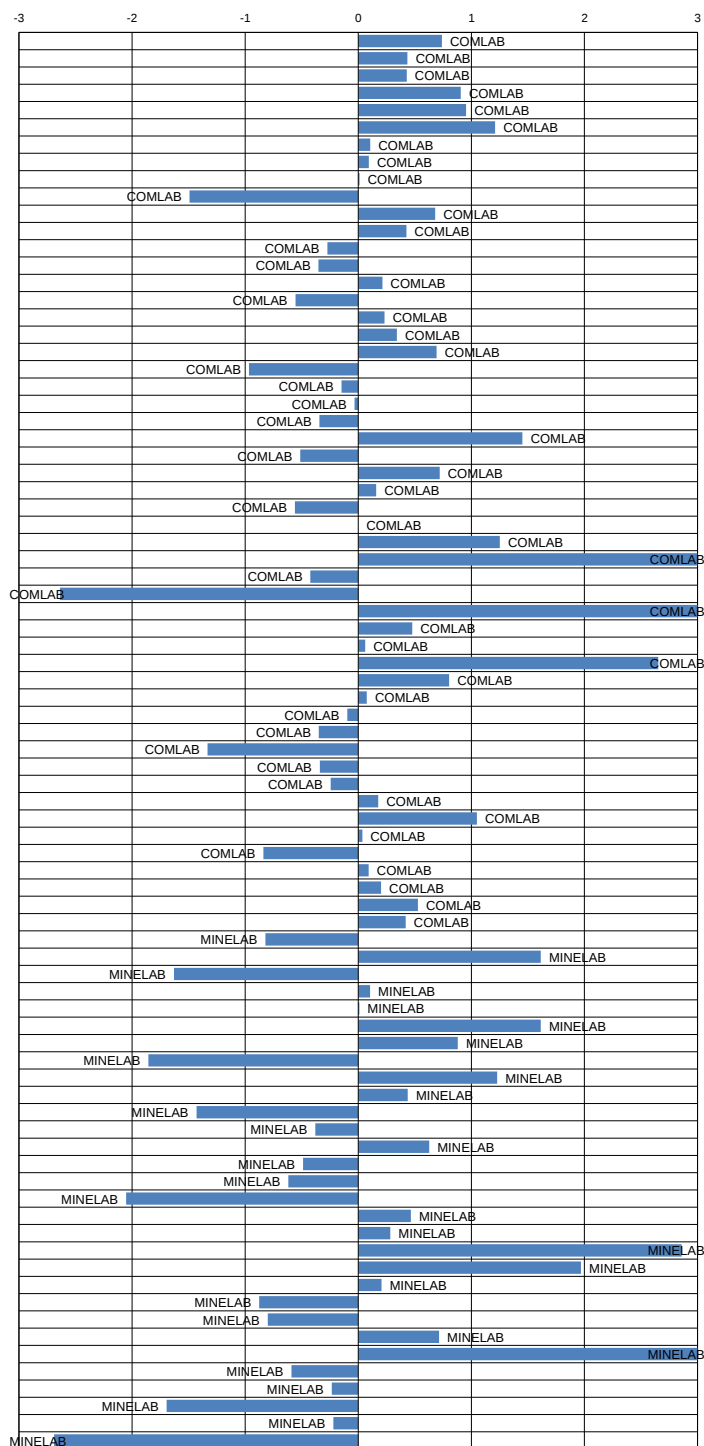
Standard Reference	GBM322-1		GBM322-2		GBM322-3		GBM322-4		GBM322-5		GBM322-6		GBM322-7		GBM322-8		GBM322-9		GBM322-10		Method	Reading
Lab Reference	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score		
IMPRC IRAN	1.0	3.00	bld	bld	1.0	-3.00	2.0	-1.78	1.0	-2.65	1.0	-1.47	1.0	-2.62	8.0	-0.72	3.0	-0.86	3.0	-0.20	4A	ES
COMLAB	0.7	1.39	0.7	1.66	1.8	1.80	2.5	0.97	2.0	1.90	1.7	2.25	1.9	1.66	8.6	0.49	3.5	1.60	3.1	0.50	4A	ES
COMLAB	0.7	1.39	0.8	2.38	1.6	0.48	2.5	0.97	1.8	0.99	1.6	1.72	1.7	0.71	8.5	0.29	3.3	0.62	3.1	0.50	4A	ES
COMLAB	0.7	1.39	<0.4	bld	1.3	-1.50	2.7	2.07	1.5	-0.38	1.2	-0.41	1.5	-0.24	7.7	-1.32	3.0	-0.86	2.9	-0.89	4A	AAS
COMLAB	0.5	-0.05	0.5	0.46	1.7	1.07	2.3	0.09	1.7	0.67	1.4	0.76	1.7	0.66	9.3	1.98	3.3	0.42	3.3	1.54	4A	ICP
COMLAB	1.2	3.00	2.2	3.00	2.5	3.00	3.8	3.00	2.6	3.00	2.4	3.00	2.7	3.00	10.2	3.00	4.5	3.00	3.9	3.00	4A	ICP
COMLAB	<0.5	bld	<0.5	bld	1.2	-2.16	2.1	-1.23	1.3	-1.29	0.9	-2.01	1.1	-2.15	7.9	-0.92	2.8	-1.84	2.5	-3.00	4A	ES
COMLAB	0.6	0.43	0.5	0.24	1.7	1.14	2.2	-0.68	1.7	0.53	1.3	0.12	1.7	0.71	8.8	0.89	3.5	1.60	3.0	-0.20	4A	ES
COMLAB	<0.5	bld	<0.5	bld	1.5	-0.18	2.3	-0.13	1.7	0.53	1.5	1.19	1.4	-0.72	8.6	0.49	3.4	1.11	3.0	-0.20	4A	ES
COMLAB	<0.5	bld	<0.5	bld	1.4	-0.84	2.5	0.97	1.5	-0.38	1.0	-1.47	1.4	-0.72	8.0	-0.72	3.2	0.13	2.9	-0.89	4A	ES
COMLAB	<0.5	bld	<0.5	bld	1.3	-1.50	2.2	-0.68	1.6	0.08	1.3	0.12	1.3	-1.19	8.0	-0.72	3.1	-0.36	3.0	-0.20	4A	ES
COMLAB	<0.5	bld	<0.5	bld	1.4	-0.84	2.1	-1.23	1.6	0.08	1.2	-0.41	1.5	-0.24	8.7	0.69	3.5	1.60	3.0	-0.20	4A	ICP
COMLAB	0.5	-0.52	<0.5	bld	1.4	-0.84	2.3	-0.13	1.4	-0.83	1.1	-0.94	1.3	-1.19	8.8	0.89	3.1	-0.36	3.3	1.89	4A	ES
COMLAB	<1.0	bld	<1.0	bld	1.0	-3.00	2.0	-1.78	1.0	-2.65	1.0	-1.47	2.0	2.13	9.0	1.30	3.0	-0.86	3.0	-0.20	4A	ES
COMLAB	0.6	0.43	<0.5	bld	1.7	1.14	2.1	-1.23	1.5	-0.38	1.3	0.12	1.4	-0.72	8.3	-0.11	3.4	1.11	3.0	-0.20	4A	ES
COMLAB	0.6	0.43	0.5	0.24	1.7	1.14	2.4	0.42	1.6	0.08	1.3	0.12	1.5	-0.24	8.4	0.09	3.1	-0.36	2.7	-2.28	4A	ES
COMLAB	0.6	0.24	0.4	-0.40	1.5	-0.18	2.2	-0.51	1.6	0.08	1.4	0.71	1.4	-0.53	8.4	0.11	3.1	-0.46	3.1	0.29	4A	MS
COMLAB	0.4	-1.47	0.3	-1.04	1.4	-0.98	2.3	-0.40	1.5	-0.24	1.2	-0.46	1.4	-0.53	8.1	-0.43	3.0	-1.05	2.9	-1.10	5A	ES
COMLAB	0.5	-0.52	<0.5	bld	1.8	1.99	2.7	1.79	2.0	1.81	1.1	-0.94	2.1	2.61	8.3	-0.07	3.2	0.27	3.1	0.78	4A	ES
COMLAB	0.5	-0.70	0.4	-0.73	1.5	-0.33	2.1	-0.96	1.5	-0.46	1.2	-0.61	1.5	-0.08	7.8	-1.15	3.0	-0.78	3.0	0.07	4A	ICP
COMLAB	0.4	-1.47	0.4	-0.47	1.4	-0.84	2.2	-0.68	1.4	-0.83	1.2	-0.41	1.4	-0.72	8.2	-0.31	3.0	-0.86	3.2	1.19	4A	MS
COMLAB	<5.0	bld	<5.0	bld	<5.0	bld	<5.0	bld	<5.0	bld	<5.0	bld	<5.0	bld	7.5	-1.72	<5.0	bld	<5.0	bld	NAA	
COMLAB	0.5	-0.52	0.4	-0.47	1.6	0.48	2.3	-0.13	1.5	-0.38	1.2	-0.41	1.5	-0.24	8.6	0.49	3.3	0.62	2.9	-0.89	4A	MS
COMLAB	0.5	-0.52	0.5	0.24	1.5	-0.18	2.1	-1.23	1.5	-0.38	1.1	-0.94	1.5	-0.24	8.2	-0.31	3.0	-0.86	3.2	1.19	4A	MS
COMLAB	0.6	0.43	0.5	0.24	1.4	-0.84	2.4	0.42	1.6	0.08	1.3	0.12	1.5	-0.24	8.5	0.29	3.1	-0.36	2.8	-1.59	4A	AAS
COMLAB	<2.0	bld	<2.0	bld	3.0	3.00	3.0	3.00	<2.0	bld	<2.0	bld	2.0	2.13	8.0	-0.72	3.0	-0.86	3.0	-0.20	4A	ES
COMLAB	0.5	-0.62	0.4	-0.40	1.5	-0.45	2.1	-1.06	1.5	-0.29	1.2	-0.20	1.5	-0.39	8.0	-0.76	3.0	-0.86	3.1	0.50	4A	
COMLAB	0.4	-1.47	<0.2	bld	1.6	0.48	2.4	0.42	1.6	0.08	1.0	-1.47	2.2	3.00	7.6	-1.52	2.8	-1.84	2.6	-3.00	4A	AAS
COMLAB	<5.0	bld	<5.0	bld	<5.0	bld	<5.0	bld	<5.0	bld	<5.0	bld	<5.0	bld	<5.0	-3.00	<5.0	bld	<5.0	bld	3A,MICR	ES
COMLAB	<1.0	bld	<1.0	bld	1.7	1.14	2.5	0.97	1.7	0.53	1.5	1.19	1.7	0.71	8.7	0.69	3.3	0.62	2.8	-1.59	4A	AAS
COMLAB	<1.0	bld	<1.0	bld	2.0	3.00	3.0	3.00	2.0	1.90	2.0	3.00	3.0	3.00	9.0	1.30	4.0	3.00	2.0	-3.00	4A	AAS
COMLAB	0.6	0.43	<0.5	bld	1.6	0.48	2.4	0.42	1.2	-1.74	1.4	0.66	1.6	0.23	9.1	1.50	3.5	1.60	3.1	0.50	4A	ES
COMLAB	0.6	0.43	0.5	0.24	1.7	0.81	2.5	0.97	1.7	0.53	1.4	0.39	1.7	0.47	9.0	1.30	3.4	0.86	2.9	-0.89	4A	MS
COMLAB	0.6	0.43	<0.5	bld	1.7	1.14	2.3	-0.13	1.6	0.08	1.3	0.12	1.5	-0.24	8.4	0.09	3.3	0.62	3.0	-0.20	4A	ES
COMLAB	0.5	-0.33	0.4	-0.26	1.6	0.41	2.4	0.15	1.7	0.44	1.4	0.39	1.5	-0.48	8.6	0.49	3.4	0.91	2.9	-0.96	4A	MS
COMLAB	0.6	0.43	0.5	0.24	1.7	1.14	2.3	-0.13	1.6	0.08	1.4	0.66	1.9	1.66	8.7	0.69	3.3	0.62	3.0	-0.20	4A	MS
COMLAB	0.5	-0.52	0.4	-0.47	1.5	-0.18	2.5	0.97	1.5	-0.38	1.3	0.12	1.5	-0.24	8.2	-0.31	3.2	0.13	3.2	1.19	4A	ICP
COMLAB	0.6	0.43	0.4	-0.47	1.7	1.14	2.6	1.52	1.8	0.99	1.4	0.66	1.7	0.71	9.1	1.50	3.5	1.60	3.3	1.89	4A	ICP
COMLAB	<1.0	bld	<1.0	bld	<1.0	-3.00	<1.0	-3.00	<1.0	bld	<1.0	bld	<1.0	bld	6.0	-3.00	<1.0	-3.00	<1.0	-3.00	4A	ICP
COMLAB	0.4	-1.28	0.3	-0.97	1.4	-0.65	2.1	-1.34	1.4	-0.79	1.1	-0.99	1.4	-0.77	7.9	-0.92	3.1	-0.51	3.1	0.29	4A	MS
COMLAB	1.7	3.00	2.3	3.00	3.4	3.00	2.9	3.00	2.4	3.00	2.3	3.00	2.9	3.00	9.7	2.70	4.6	3.00	3.4	2.58	4A	AAS
COMLAB	<0.5	bld	<0.5	bld	1.6	0.48	2.2	-0.68	1.4	-0.83	1.0	-1.47	1.4	-0.72	8.6	0.49	3.3	0.62	3.1	0.50	4A	ES
COMLAB	0.8	2.34	0.6	0.95	2.0	3.00	2.4	0.42	1.9	1.45	1.7	2.25	1.3	-1.19	8.5	0.29	2.7	-2.33	2.5	-3.00	4A	ES
COMLAB	0.7	1.39	0.9	3.00	1.5	-0.18	2.6	1.52	2.0	1.90	1.9	3.00	1.9	1.66	7.8	-1.12	3.2	0.13	3.0	-0.20	4A	ES
COMLAB	<1.0	bld	<1.0	bld	1.0	-3.00	2.2	-0.68	2.0	2.04	1.4	0.66	1.4	-0.72	8.2	-0.31	5.5	3.00	3.5	3.00	4A	AAS
COMLAB	0.6	0.15	<0.5	bld	1.4	-1.11	2.2	-0.68	1.4	-0.70	1.1	-1.05	1.4	-0.62	8.1	-0.43	3.0	-0.95	3.1	0.29	4A	AAS
COMLAB	0.6	0.77	0.3	-1.19	1.2	-1.95	2.4	0.64	1.4	-0.92	1.4	0.66	1.5	-0.33	8.5	0.20	3.1	-0.54	2.6	-3.00	4A	AAS
COMLAB	0.4	-1.47	0.3	-1.19	1.4	-0.84	2.0	-1.78	1.5	-0.38	1.2	-0.41	1.5	-0.24	7.5	-1.72	3.1	-0.36	2.5	-3.00	4A	AAS
COMLAB	0.5	-0.14	0.5	-0.05	1.6	0.48	2.4	0.58	1.6	0.17	1.2	-0.25	1.7	0.56	8.0	-0.82	3.3	0.42	2.9	-0.61	4A	ES
COMLAB	0.5	-0.62	0.5	0.03	1.4	-0.84	2.2	-0.79	1.4	-1.01	1.2	-0.51	1.4	-0.62	7.7	-1.34	3.1	-0.61	3.0	-0.54	4A	ICP
COMLAB	0.5	-0.52	0.3	-1.19	1.5	-0.18	2.3	-0.13	1.6	0.08	1.3	0.12	1.5	-0.24	8.0	-0.72	3.0	-0.86	2.9	-0.89	4A	ES
COMLAB	0.4	-1.47	0.6	0.95	0.9	-3.00	2.5	0.97	1.6	0.08	1.2	-0.41	1.5	-0.24	7.9	-0.92	3.9	3.00	2.9	-0.89	4A	ES
COMLAB	<1.0	bld	<1.0	bld	1.7	1.14	2.5	0.97	1.6	0.08	1.4	0.66	1.6	0.23	8.2	-0.31	3.2	0.13	3.1	0.50	4A	ES
COMLAB	0.8	2.34	0.7	1.66	<0.5	-3.00	2.6	1.52	1.2	-1.74	1.6	1.72	1.7	0.71	8.0	-0.72	3.6	2.09	3.7	3.00	4A	
MINELAB	0.5	-0.52	0.7	1.66	1.5	-0.18	2.4	0.42	1.8	0.99	1.5	1.19	1.8	1.18	8.0	-0.72	3.1	-0.36	2.5	-3.00	4A	ES
MINELAB	0																					



Silver (Partial Digest) Round Robin - Summary Statistics, Assays, Standardised Values and Graphs - April 2022

Standard Reference	GBM322-1	GBM322-2	GBM322-3	GBM322-4	GBM322-5	GBM322-6	GBM322-7	GBM322-8	GBM322-9	GBM322-10
MEAN (ppm)	0.5	0.4	1.4	2.3	1.5	1.1	1.5	8.2	3.1	2.9
STDEV (ppm)	0.1	0.1	0.2	0.2	0.1	0.1	0.1	0.5	0.2	0.4
95% CI (ppm)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1
95% CI (%)	7.03%	8.46%	3.37%	1.97%	1.89%	2.98%	2.26%	1.41%	1.72%	2.96%
MIN (ppm)	0.3	0.1	1.0	1.9	1.3	0.8	1.3	7.0	2.5	2.0
MEDIAN (ppm)	0.5	0.4	1.4	2.3	1.6	1.1	1.5	8.2	3.1	3.0
MAX (ppm)	0.8	0.7	1.8	2.6	1.8	1.4	1.8	9.3	3.6	3.9
IQR (ppm)	0.2	0.2	0.2	0.3	0.1	0.2	0.2	0.5	0.3	0.4
COUNT	47	44	57	62	57	56	56	70	69	69

Standard Reference	GBM322-1		GBM322-2		GBM322-3		GBM322-4		GBM322-5		GBM322-6		GBM322-7		GBM322-8		GBM322-9		GBM322-10		Method	Reading	
Lab Reference	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score			
COMLAB	0.5	0.01	0.4	-0.11	1.5	0.59	2.4	0.79	1.7	1.35	1.2	0.92	1.5	0.00	8.5	0.60	3.3	0.89	3.8	2.38	AR	ICP	
COMLAB	0.6	0.83	0.4	-0.11	1.5	0.59	2.4	0.79	1.5	-0.44	1.1	0.10	1.6	0.78	8.3	0.19	3.3	0.89	3.2	0.73	AR	ICP	
COMLAB	0.6	0.83	<0.4	bld	1.5	0.59	2.6	1.92	1.6	0.45	1.1	0.10	1.5	0.00	8.1	-0.22	3.1	0.00	3.0	0.19	AR	AAS	
COMLAB	0.5	0.01	1.2	3.00	1.6	1.15	2.3	0.23	1.7	1.35	1.1	0.10	1.6	0.78	8.8	1.21	3.4	1.33	2.9	-0.09	AR	ICP	
COMLAB	0.5	0.01	0.5	0.74	1.6	1.15	2.8	3.00	1.6	0.45	1.2	0.92	1.6	0.78	8.5	0.60	3.3	0.89	3.3	1.01	AR	ES	
COMLAB	0.6	0.83	0.5	0.74	1.5	0.59	2.6	1.92	1.7	1.35	1.2	0.92	1.7	1.56	8.9	1.41	3.5	1.78	3.3	1.01	AR	ES	
COMLAB	0.5	0.01	0.4	-0.11	1.4	0.03	2.4	0.79	1.5	-0.44	1.1	0.10	1.5	0.00	8.5	0.60	3.2	0.44	2.8	-0.36	AR	ES	
COMLAB	0.3	-1.64	0.4	-0.11	1.4	0.03	2.3	0.23	1.6	0.45	1.2	0.92	1.5	0.00	8.5	0.60	3.1	0.00	3.1	0.46	AR	ES	
COMLAB	0.5	0.01	0.3	-0.97	1.4	0.03	2.4	0.79	1.6	0.45	1.1	0.10	1.4	-0.78	8.4	0.39	3.2	0.44	2.8	-0.36	AR	ICP	
COMLAB	0.4	-0.82	<0.2	bld	0.8	-3.00	2.1	-0.90	1.4	-1.34	1.0	-0.72	0.9	-3.00	8.0	-0.42	2.7	-1.79	2.4	-1.46	AR	ES	
COMLAB	0.6	0.83	0.5	0.74	1.7	1.71	2.3	0.23	1.5	-0.44	1.0	-0.72	1.7	1.56	9.1	1.82	3.3	0.89	3.0	0.19	AR	ES	
COMLAB	0.7	1.65	0.3	-0.97	1.3	-0.52	2.3	0.23	1.6	0.45	1.1	0.10	1.4	-0.78	8.8	1.21	3.4	1.33	3.5	1.55	AR	ES	
COMLAB	0.4	-0.82	0.3	-0.97	1.3	-0.52	2.3	0.23	1.5	-0.44	1.0	-0.72	1.5	0.00	8.5	0.60	3.1	0.00	2.9	-0.09	AR	ES	
COMLAB	0.4	-0.82	0.3	-0.97	1.3	-0.52	2.3	0.23	1.5	-0.44	1.1	0.10	1.4	-0.78	8.5	0.60	3.1	0.00	2.6	-0.91	AR	ES	
COMLAB	0.4	-0.82	0.4	-0.11	1.3	-0.52	2.4	0.79	1.6	0.45	1.0	-0.72	1.6	0.78	8.8	1.21	3.3	0.89	3.0	0.19	AR	ES	
COMLAB	<0.2	bld	0.4	-0.11	1.0	-2.20	1.9	-2.02	1.6	0.45	0.8	-2.35	1.3	-1.56	8.5	0.60	3.0	-0.45	3.9	2.65	AR	AAS	
COMLAB	0.6	0.83	0.4	-0.11	1.5	0.59	2.5	1.36	1.5	-0.44	1.2	0.92	1.5	0.00	7.8	-0.83	3.0	-0.45	3.1	0.46	AR	AAS	
COMLAB	0.4	-0.82	0.5	0.74	1.5	0.59	2.3	0.23	1.5	-0.44	1.3	1.73	1.7	1.56	8.3	0.19	3.1	0.00	2.8	-0.36	AR	ES	
COMLAB	0.5	0.34	0.5	0.31	1.5	0.54	2.2	-0.33	1.7	0.90	1.2	0.67	1.7	1.25	9.1	1.82	3.4	1.33	3.0	0.10	AR	MS	
COMLAB	0.4	-1.06	0.3	-0.97	1.3	-0.64	2.1	-0.90	1.4	-1.16	0.9	-1.21	1.4	-1.17	7.9	-0.71	2.8	-1.47	2.8	-0.39	AR	ES	
COMLAB	0.5	0.01	0.4	-0.11	1.5	0.59	2.3	0.23	1.4	-1.34	1.1	0.10	1.6	0.78	7.7	-1.03	2.9	-0.89	3.0	0.19	AR	ES	
COMLAB	0.5	-0.02	0.4	-0.03	1.5	0.51	2.4	0.57	1.6	0.35	1.1	-0.09	1.4	-0.65	7.4	-1.55	3.1	-0.10	3.2	0.68	AR	ICP	
COMLAB	0.3	-1.64	<0.3	bld	1.3	-0.52	2.2	-0.33	1.3	-2.23	0.8	-2.35	1.6	0.78	8.9	1.41	3.4	1.33	3.1	0.46	AR	ES	
COMLAB	1.1	3.00	<1.0	bld	1.8	2.04	2.9	3.00	2.0	3.00	1.3	1.41	1.7	1.48	7.8	-0.91	3.2	0.22	2.9	-0.17	AR	ICP	
COMLAB	<1.0	bld	1.4	3.00	1.2	-1.03	2.1	-1.01	1.5	-0.80	1.0	-0.55	1.4	-0.93	7.6	-1.18	2.8	-1.34	2.7	-0.77	AR	ICP	
COMLAB	<0.5	bld	<0.5	bld	1.5	0.59	2.4	0.79	1.7	1.35	1.2	0.92	1.6	0.78	8.2	-0.02	3.3	0.89	3.1	0.46	AR	AAS	
COMLAB	0.5	0.01	0.5	0.74	1.5	0.59	2.3	0.23	1.7	1.35	0.9	-1.53	1.5	0.00	8.0	-0.42	3.2	0.44	3.0	0.19	AR	AAS	
COMLAB	<1.0	bld	1.0	3.00	<1.0	bld	2.0	-1.46	<1.0	-3.00	<1.0	bld	2.0	3.00	7.0	-2.46	3.0	-0.45	2.0	-2.55	AR	ES	
COMLAB	bld	bld	bld	bld	bld	bld	bld	bld	bld	bld	bld	bld	bld	bld	bld	bld	bld	bld	bld	bld	bld	3A,MICR	ES
COMLAB	0.5	-0.07	2.5	3.00	2.3	3.00	2.6	1.75	1.6	0.72	1.2	1.08	2.4	3.00	8.0	-0.38	3.2	0.49	2.9	-0.06	AR	AAS	
COMLAB	1.5	3.00	2.4	3.00	3.3	3.00	4.7	3.00	3.4	3.00	3.2	3.00	4.6	3.00	12.1	3.00	5.1	3.00	5.3	3.00	3A	AAS	
COMLAB	<4.0	bld	<4.0	bld	<4.0	bld	<4.0	bld	<4.0	bld	<4.0	bld	<4.0	bld	8.0	-0.42	<4.0	bld	<4.0	bld	AR	ES	
COMLAB	0.1	-3.00	0.1	-2.68	0.6	-3.00	1.4	-3.00	0.5	-3.00	0.3	-3.00	1.1	-3.00	7.6	-1.24	2.1	-3.00	2.4	-1.46	AR	ES	
COMLAB	9.0	3.00	<3.0	bld	3.0	3.00	4.0	3.00	3.0	3.00	3.0	3.00	3.0	3.00	11.0	3.00	4.0	3.00	5.0	3.00	AR	AAS	
COMLAB	0.6	0.42	0.4	-0.03	1.5	0.31	2.4	0.79	1.6	0.72	1.2	0.92	1.6	0.39	8.4	0.47	3.2	0.26	3.1	0.51	AR	MS	
COMLAB	0.4	-0.82	0.4	-0.11	1.5	0.59	2.3	0.23	1.5	-0.44	1.0	-0.72	1.5	0.00	8.6	0.80	3.3	0.89	3.0	0.19	AR	ES	
COMLAB	9.3	3.00	3.5	3.00	2.1	3.00	5.2	3.00	2.4	3.00	<2.0	bld	<2.0	bld	28.0	3.00	3.2	0.22	5.8	3.00	AR	AAS	
COMLAB	0.7	1.65	0.5	0.74	2.2	3.00	2.3	0.23	1.9	3.00	1.5	3.00	1.4	-0.78	8.2	-0.02	2.8	-1.34	2.4	-1.46	AR	ES	
COMLAB	0.5	0.01	0.5	0.74	1.4	0.03	2.4	0.68	1.5	-0.44	1.1	-0.31	1.5	0.00	8.1	-0.14	3.1	0.00	3.0	0.19	AR	AAS	
COMLAB	0.3	-1.64	0.2	-1.82	1.6	1.15	2.1	-0.90	1.5	-0.44	1.4	2.55	1.5	0.00	8.3	0.19	2.8	-1.34	3.4	1.28	2A,MICR	ICP	
COMLAB	0.3	-1.64	1.0	3.00	1.3	-0.52	2.1	-0.90	1.7	1.35	1.0	-0.72	1.3	-1.56	8.0	-0.42	2.9	-0.89	2.5	-1.18	AR	ES	
COMLAB	<2.0	bld	<2.0	bld	<2.0	bld	<2.0	bld	<2.0	bld	<2.0	bld	<2.0	bld	7.4	-1.65	2.9	-0.89	2.4	-1.46	3A	AAS	
COMLAB	0.5	-0.09	0.3	-1.12	1.3	-0.46	2.1	-0.83	1.6	0.18	1.1	0.48	1.5	-0.36	7.6	-1.23	3.0	-0.30	3.1	0.33	AR	AAS	
COMLAB	<2.0	bld	<2.0	bld	<2.0	bld	<2.0	bld	<2.0	bld	<2.0	bld	<2.0	bld	8.6	0.80	2.9	-0.89	2.7	-0.63	AR	ICP	
COMLAB	0.4	-0.82	0.7	2.45	1.6	1.15	2.1	-0.90	1.5	-0.44	1.3	1.73	1.4	-0.78	7.5	-1.44	3.3	0.89	2.9	-0.09	AR	MS	
COMLAB	0.4	-0.82	1.1	3.00	1.5	0.59	2.5	1.36	1.5	-0.44	1.1	0.10	1.8	2.34	8.0	-0.42	3.5	1.78	4.1	3.00	AR	ES	
COMLAB	0.5	-0.07	0.4	-0.03	1.5	0.37	2.3	0.18	1.6	0.09	1.1	0.10	1.5	-0.16	8.0	-0.36	3.1	-0.05	3.0	0.30	AR	ICP	
COMLAB	0.3	-1.64	0.4	-0.11	1.2	-1.08	2.2	-0.33	1.4	-1.34	0.9	-1.53	1.4	-0.78	8.1	-0.22	3.0	-0.45	2.6	-0.91	AR	ES	
COMLAB	<1.0	bld	<1.0	bld	1.4	0.03	2.3	0.23	1.5	-0.44	1.1	0.10	1.5	0.00	8.3	0.19	3.2	0.44	3.0	0.19	AR	ES	
COMLAB	4.3	3.00	0.6	1.60	1.1	-1.64	2.1	-0.90	3.9	3.00	1.9	3.00	1.4	-0.78	5.3	-3.00	1.9	-3.00	3.2	0.73	3A	ICP	
COMLAB	0.8	2.48	0.6	1.60	0.8	-3.00	2.4	0.79	1.4	-1.34	1.7	3.00	1.5	0.00	8.0	-0.42	3.3	0.89	3.4	1.28	AR	AAS	
COMLAB	<1.0	bld	<1.0	bld	1.3	-0.52	2.4	0.79	1.7	1.35	1.2	0.92	1.4	-0.78	8.2	-0.02	3.3	0.89	3.2	0.73	AR	AAS	
MINELAB	0.5	0.01	0.4	-0.46	1.1	-1.70	2.1	-1.12	1.3	-2.14	1.0	-0.63	1.3	-1.48	8.2	-0.02	3.0	-0.45	2.9	-0.22	AR	AAS	
MINELAB	<5.0	bld	<5.0	bld	<5.0	bld	<5.0	bld	<5.0	bld	<5.0	bld	<5.0	bld	9.0	1.61	<5.0	bld	<5.0	bld	3A	AAS	
MINELAB	4.1	3.00	0.6	1.26	0.2	-3.00	0.4	-3.00	0.2	-3.00	0.2	-3.00	0.2	-3.00	2.7	-3.00	3.0	-0.27	2.1	-2.28	AR	ICP	
MINELAB	0.6	0.83	0.4	-0.11	1.4	0.03	2.2	-0.33	1.6	0.45	1.0	-0.72	1.5	0.00	8.2	-0.02	3.2	0.44	3.1	0			

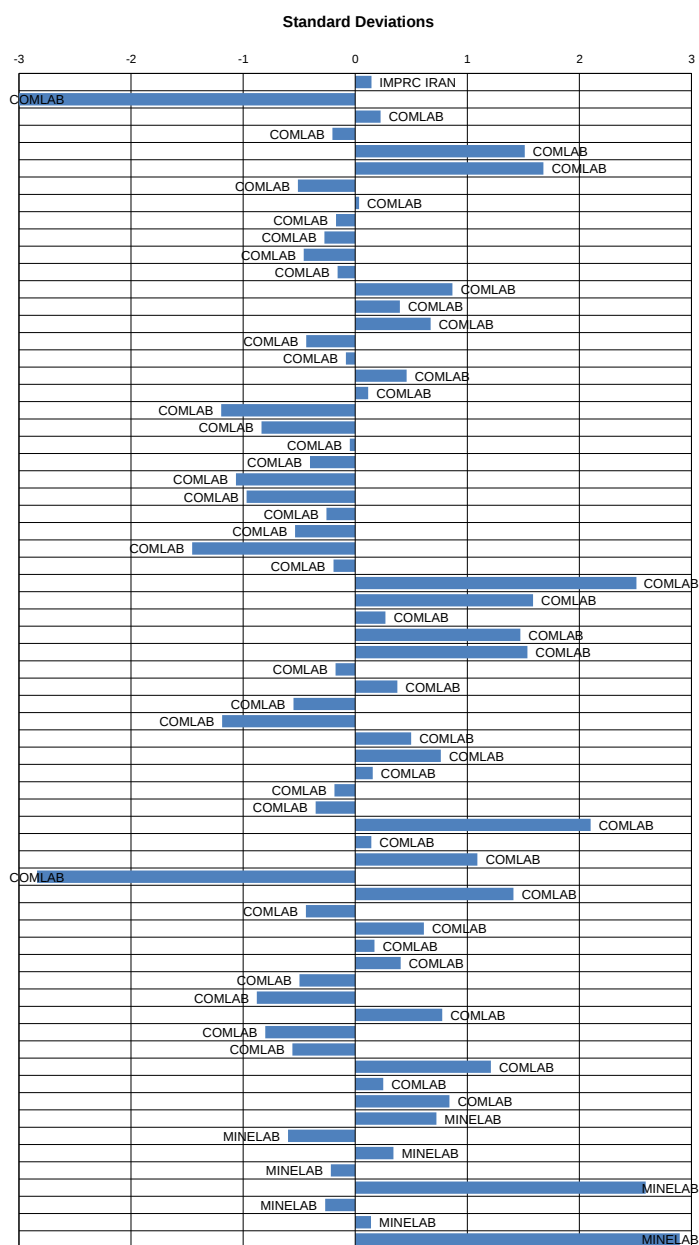
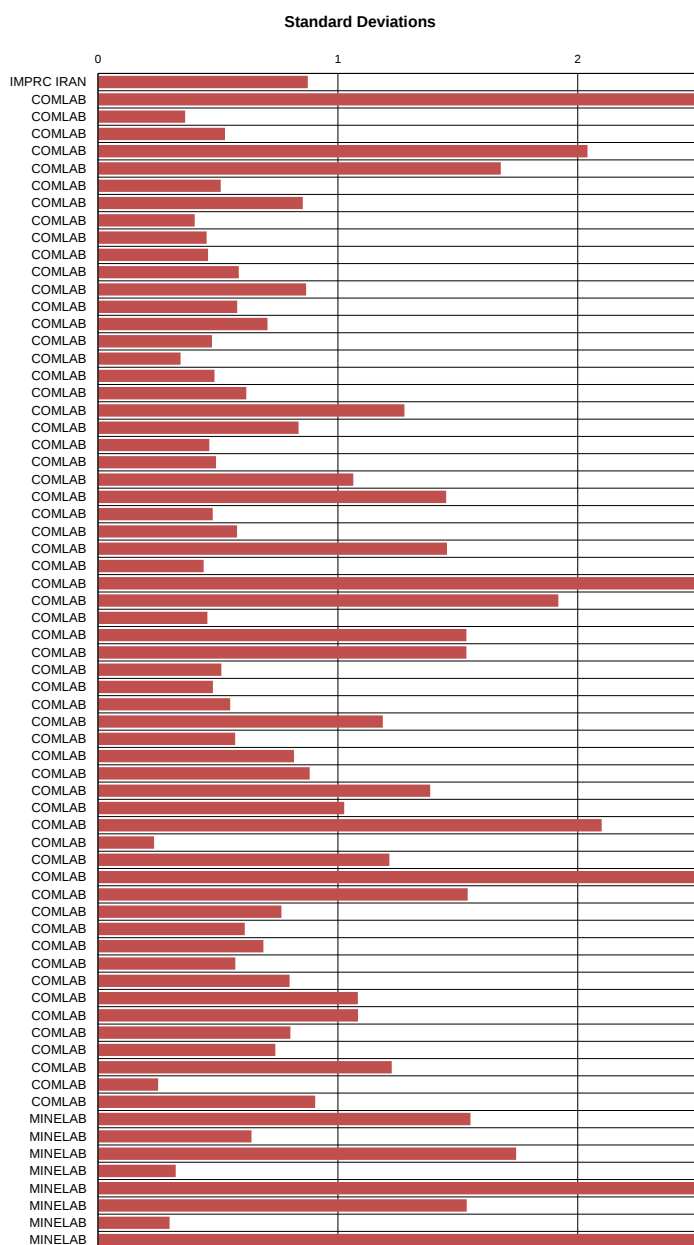


Copper (Total Digest) Round Robin - Summary Statistics, Assays, Standardised Values and Graphs - April 2022

Standard Reference	GBM322-1	GBM322-2	GBM322-3	GBM322-4	GBM322-5	GBM322-6	GBM322-7	GBM322-8	GBM322-9	GBM322-10
MEAN (ppm)	868	14869	214	1025	152	794	89	2951	1457	707
STDEV (ppm)	34	408	9	36	8	32	4	112	62	32
95% CI (ppm)	9	110	2	9	2	8	1	28	16	8
95% CI (%)	1.03%	0.74%	1.12%	0.90%	1.46%	1.04%	1.14%	0.96%	1.09%	1.18%
MIN (ppm)	780	13750	197	955	134	726	82	2702	1303	644
MEDIAN (ppm)	866	14884	213	1020	150	794	89	2944	1460	712
MAX (ppm)	947	15600	236	1115	174	868	97	3203	1617	782
IQR (ppm)	49	453	9	46	9	41	5	150	73	34
COUNT	58	54	53	60	56	57	48	61	60	57

Standard Reference	GBM322-1	GBM322-2	GBM322-3	GBM322-4	GBM322-5	GBM322-6	GBM322-7	GBM322-8	GBM322-9	GBM322-10	Method	Reading
Lab Reference	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score
IMPRC IRAN	869	0.02	14700	-0.41	225	1.30	1102	2.13	145	-0.79	802	0.24
COMLAB	13	-3.00	2130	-3.00	48	-3.00	27	-3.00	15	-3.00	26	-3.00
COMLAB	856	-0.36	14800	-0.17	214	0.05	1050	0.70	155	0.41	813	0.59
COMLAB	888	0.57	15304	1.07	210	-0.41	1003	-0.60	150	-0.19	776	-0.58
COMLAB	874	0.16	16600	3.00	231	1.99	992	-0.91	168	1.96	1000	3.00
COMLAB	979	3.00	15400	1.30	236	2.56	1080	1.53	160	1.00	816	0.68
COMLAB	nr	nr	14660	-0.51	nr	nr	nr	nr	nr	nr	nr	nr
COMLAB	869	0.02	15431	1.38	218	0.50	1023	-0.05	164	1.48	806	0.37
COMLAB	860	-0.24	14600	-0.66	213	-0.07	1010	-0.41	146	-0.67	783	-0.36
COMLAB	839	-0.85	15050	0.44	211	-0.29	1010	-0.41	146	-0.67	767	-0.87
COMLAB	852	-0.48	14650	-0.54	213	-0.07	1020	-0.13	148	-0.43	772	-0.71
COMLAB	879	0.31	>10000	ald	206	-0.86	1060	0.97	150	-0.19	784	-0.33
COMLAB	908	1.15	15050	0.44	229	1.76	1040	0.42	153	0.17	799	0.14
COMLAB	866	-0.07	14850	-0.05	219	0.62	1025	0.01	145	-0.79	797	0.08
COMLAB	896	0.80	14800	-0.17	218	0.50	1034	0.26	162	1.24	798	0.11
COMLAB	862	-0.19	14850	-0.05	212	-0.18	994	-0.85	141	-1.27	753	-1.31
COMLAB	872	0.10	>10000	ald	214	0.05	1000	-0.68	145	-0.79	800	0.18
COMLAB	891	0.65	14900	0.08	219	0.62	1045	0.56	151	-0.13	803	0.27
COMLAB	899	0.89	14972	0.25	215	0.16	1013	-0.33	159	0.90	841	1.47
COMLAB	857	-0.33	13750	-2.74	205	-0.98	1000	-0.68	141	-1.27	726	-2.16
COMLAB	846	-0.65	>10000	ald	202	-1.28	998	-0.75	147	-0.53	774	-0.86
COMLAB	883	0.42	14500	-0.90	209	-0.52	1020	-0.13	154	0.29	815	0.65
COMLAB	856	-0.36	14900	0.08	204	-1.09	1010	-0.41	150	-0.19	806	0.37
COMLAB	842	-0.78	14869	0.00	202	-1.31	996	-0.80	144	-0.95	750	-1.42
COMLAB	815	-1.55	15528	1.61	200	-1.55	975	-1.38	158	0.80	790	-0.14
COMLAB	880	0.34	14600	-0.66	210	-0.41	1020	-0.13	150	-0.19	812	0.55
COMLAB	841	-0.80	14957	0.22	212	-0.18	1004	-0.57	151	-0.07	777	-0.55
COMLAB	830	-1.11	13915	-2.34	204	-1.09	978	-1.29	143	-1.03	743	-1.63
COMLAB	859	-0.27	15300	1.06	210	-0.41	1010	-0.41	147	-0.55	795	0.02
COMLAB	1099	3.00	15089	0.54	272	3.00	1154	3.00	333	3.00	965	3.00
COMLAB	940	2.07	14377	-1.21	305	3.00	1050	0.70	209	3.00	858	1.99
COMLAB	891	0.65	15236	0.90	212	-0.18	1038	0.37	149	-0.31	815	0.65
COMLAB	924	1.61	15600	1.79	227	1.53	1087	1.72	149	-0.31	857	1.98
COMLAB	922	1.55	15400	1.30	235	2.44	1090	1.80	165	1.60	834	1.25
COMLAB	843	-0.74	14392	-1.17	213	-0.07	1013	-0.33	150	-0.19	785	-0.30
COMLAB	904	1.03	14900	0.08	222	0.93	1031	0.18	155	0.42	826	0.98
COMLAB	856	-0.36	14800	-0.17	209	-0.52	992	-0.91	151	-0.07	790	-0.14
COMLAB	840	-0.82	14168	-1.72	197	-1.89	997	-0.77	140	-1.39	770	-0.77
COMLAB	894	0.74	15200	0.81	211	-0.29	1070	1.25	<200	bld	806	0.37
COMLAB	892	0.68	16500	3.00	215	0.16	1040	0.42	151	-0.07	832	1.19
COMLAB	866	-0.07	14833	-0.09	211	-0.29	1000	-0.68	166	1.72	730	-2.04
COMLAB	829	-1.14	14500	-0.90	261	3.00	1010	-0.41	147	-0.55	777	-0.55
COMLAB	843	-0.75	>10000	ald	198	-1.82	1054	0.82	134	-2.09	794	-0.02
COMLAB	947	2.28	15150	0.69	326	3.00	1088	1.75	229	3.00	868	2.32
COMLAB	867	-0.04	15004	0.33	214	0.05	1022	-0.08	150	-0.19	790	-0.14
COMLAB	880	0.34	14700	-0.41	301	3.00	1080	1.53	222	3.00	794	-0.01
COMLAB	632	-3.00	10816	-3.00	184	-3.00	839	-3.00	140	-1.39	676	-3.00
COMLAB	894	0.74	15085	0.53	217	0.39	1065	1.11	169	2.08	894	3.00
COMLAB	838	-0.89	14200	-1.64	205	-0.94	970	-1.51	149	-0.31	784	-0.32
COMLAB	nr	nr	14968	0.24	nr	nr	nr	nr	nr	nr	nr	nr
COMLAB	901	0.94	14700	-0.41	224	1.19	1010	-0.41	158	0.76	817	0.71
COMLAB	902	0.98	14528	-0.83	216	0.23	1028	0.08	153	0.15	835	1.27
COMLAB	837	-0.91	15384	1.26	208	-0.64	955	-1.93	150	-0.19	770	-0.77
COMLAB	809	-1.72	14600	-0.66	207	-0.75	960	-1.79	152	0.05	738	-1.78
COMLAB	926	1.67	>10000	ald	221	0.85	1073	1.33	144	-0.91	833	1.22
COMLAB	851	-0.51	14135	-1.80	208	-0.66	1001	-0.66	140	-1.36	793	-0.05
COMLAB	839	-0.85	>10000	ald	209	-0.52	972	-1.46	146	-0.67	748	-1.47
COMLAB	932	1.84	14839	-0.07	224	1.19	1115	2.49	155	0.41	829	1.09
COMLAB	875	0.19	14974	0.26	214	0.05	1036	0.31	153	0.17	799	0.14
COMLAB	861	-0.22	15560	1.69	229	1.76	1042	0.48	157	0.65	791	-0.11
MINELAB	780	-2.56	14630	-0.59	260	3.00	1060	0.97	170	2.20	830	1.12
MINELAB	833	-1.03	14950	0.20	209	-0.52	1005	-0.55	144	-0.91	770	-0.77
MINELAB	800	-1.98	15450	1.42	300	3.00	1000	-0.68	200	3.00	750	-1.40
MINELAB	876	0.22	>10000	ald	214	0.05	994	-0.85	148	-0.43	772	-0.71
MINELAB	1039	3.00	14862	-0.02	317	3.00	1192	3.00	254	3.00	980	3.00
MINELAB	1010	3.00	14100	-1.88	210	-0.41	1100	2.08	<200	bld	700	-2.98
MINELAB	858	-0.30	15079	0.51	215	0.16	1022	-0.08	153	0.17	804	0.30
MINELAB	983	3.00	16300	3.00	251	3.00	1107	2.27	174	2.68	985	3.00
									100	3.00	3340	3.00
									1731	3.00	805	3.00

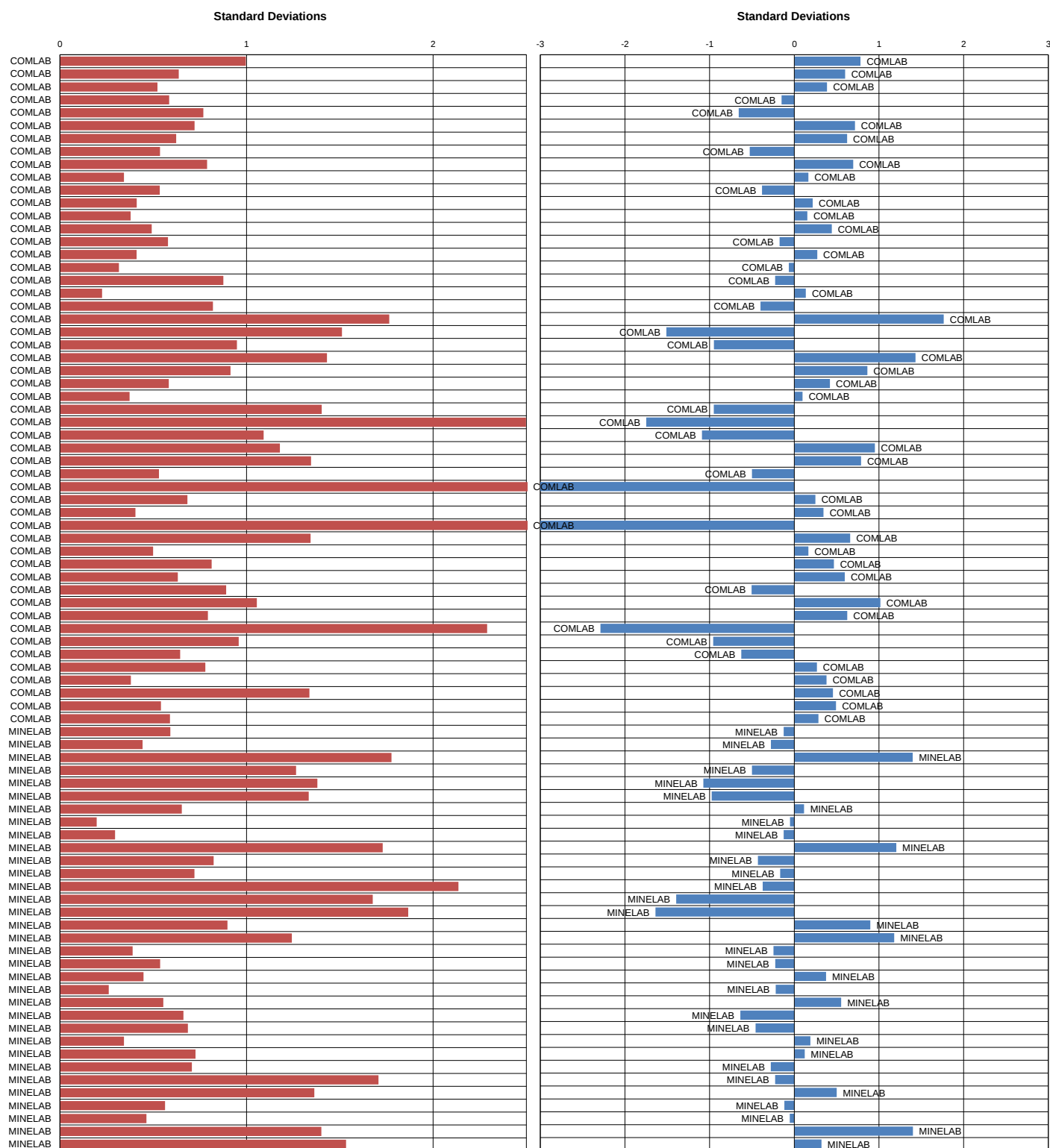
Highlighted values are outliers which are assigned a z-score of -3.00 or 3.00 in the standardised values.



Copper (Partial Digest) Round Robin - Summary Statistics, Assays, Standardised Values and Graphs - April 2022

Standard Reference	GBM322-1	GBM322-2	GBM322-3	GBM322-4	GBM322-5	GBM322-6	GBM322-7	GBM322-8	GBM322-9	GBM322-10
MEAN (ppm)	871	14810	210	1018	149	752	88	2945	1452	703
STDEV (ppm)	31	450	9	44	7	42	5	119	52	29
95% CI (ppm)	7	112	2	10	2	9	1	26	12	6
95% CI (%)	0.80%	0.76%	1.04%	0.96%	1.13%	1.21%	1.43%	0.88%	0.79%	0.90%
MIN (ppm)	793	13600	187	901	130	647	73	2665	1310	629
MEDIAN (ppm)	872	14850	211	1022	149	754	89	2950	1454	706
MAX (ppm)	951	15644	231	1116	167	869	100	3264	1590	782
IQR (ppm)	39	506	11	56	8	52	6	114	57	37
COUNT	79	63	73	80	70	82	71	81	80	81

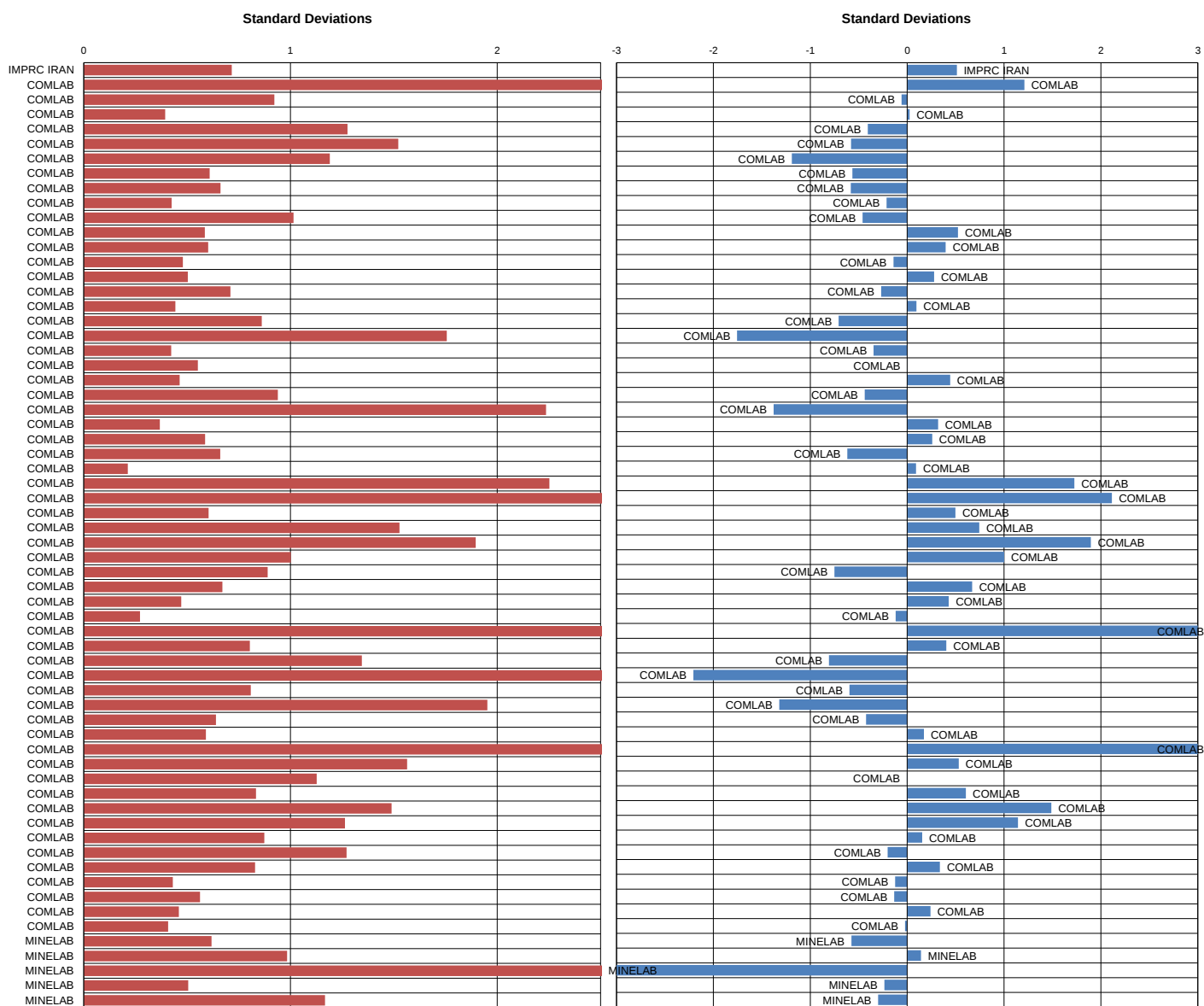
Standard Reference	GBM322-1		GBM322-2		GBM322-3		GBM322-4		GBM322-5		GBM322-6		GBM322-7		GBM322-8		GBM322-9		GBM322-10		Method	Reading
Lab Reference	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score		
COMLAB	917	1.49	>10000	ald	208	-0.23	1090	1.62	159	1.41	819	1.61	86	-0.35	2900	-0.38	1510	1.12	725	0.76	AR	ICP
COMLAB	899	0.91	>10000	ald	217	0.72	1080	1.40	151	0.28	784	0.77	87	-0.16	2950	0.04	1500	0.92	718	0.52	AR	ICP
COMLAB	887	0.52	15553	1.65	217	0.72	1054	0.81	150	0.14	743	-0.21	86	-0.35	2978	0.27	1445	-0.13	715	0.42	AR	AAS
COMLAB	884	0.43	14700	-0.24	217	0.72	1020	0.05	151	0.28	681	-1.68	92	0.69	2880	-0.55	1430	-0.41	680	-0.79	AR	ICP
COMLAB	842	-0.92	nr	nr	206	-0.44	990	-0.63	149	0.00	764	0.30	89	0.21	2726	-1.85	1387	-1.23	664	-1.34	AR	ES
COMLAB	904	1.07	14800	-0.02	222	1.25	1060	0.95	156	0.99	767	0.37	89	0.21	3050	0.88	1475	0.45	733	1.04	AR	ES
COMLAB	872	0.04	15150	0.76	220	1.04	1060	0.95	149	0.00	763	0.27	93	0.95	3010	0.54	1485	0.64	733	1.04	AR	ES
COMLAB	833	-1.21	>10000	ald	205	-0.55	1020	0.05	146	-0.42	716	-0.85	86	-0.35	2900	-0.38	1405	-0.89	699	-0.13	AR	ES
COMLAB	892	0.68	14600	-0.47	224	1.46	1080	1.40	151	0.28	764	0.30	94	1.14	3070	1.05	1470	0.35	725	0.76	AR	ICP
COMLAB	856	-0.47	15100	0.65	216	0.61	1005	-0.29	149	0.00	757	0.13	90	0.39	2990	0.38	1445	-0.13	714	0.38	AR	ES
COMLAB	829	-1.34	14700	-0.24	207	-0.34	986	-0.72	146	-0.42	724	-0.66	90	0.39	2990	0.38	1440	-0.22	684	-0.65	AR	ES
COMLAB	882	0.36	14950	0.31	216	0.61	1015	-0.06	145	-0.56	744	-0.18	87	-0.16	3010	0.54	1500	0.92	714	0.38	AR	ES
COMLAB	853	-0.57	14800	-0.02	215	0.51	1020	0.05	151	0.28	729	-0.54	92	0.77	2990	0.38	1460	0.16	718	0.52	AR	ES
COMLAB	906	1.13	>10000	ald	218	0.83	1025	0.16	149	0.00	761	0.22	90	0.39	3090	1.22	1440	-0.22	710	0.25	AR	ES
COMLAB	763	-3.00	14700	-0.24	209	-0.12	1055	0.84	149	0.00	735	-0.40	91	0.58	2990	0.38	1460	0.16	705	0.07	AR	ES
COMLAB	872	0.04	14630	-0.40	215	0.51	1050	0.72	154	0.70	758	0.15	90	0.39	2910	-0.30	1485	0.64	710	0.25	AR	AAS
COMLAB	849	-0.69	14950	0.31	212	0.19	987	-0.69	149	0.00	736	-0.37	89	0.21	2940	-0.05	1480	0.54	700	-0.10	AR	AAS
COMLAB	843	-0.89	>10000	ald	201	-0.97	978	-0.90	142	-0.98	810	1.39	95	1.33	2970	0.21	1400	-0.99	696	-0.24	AR	ES
COMLAB	870	-0.02	14850	0.09	209	-0.12	1025	0.16	150	0.14	739	-0.30	91	0.52	2990	0.38	1455	0.06	716	0.45	AR	MS
COMLAB	859	-0.37	14791	-0.04	197	-1.42	985	-0.74	158	1.25	787	0.85	84	-0.70	2865	-0.68	1351	-1.92	697	-0.21	AR	ES
COMLAB	895	0.78	17984	3.00	252	3.00	1064	1.04	167	2.53	770	0.44	119	3.00	3228	2.38	1491	0.75	724	0.73	AR	AAS
COMLAB	838	-1.05	13600	-2.69	190	-2.13	978	-0.90	138	-1.54	715	-0.87	84	-0.72	2860	-0.72	1350	-1.94	629	-2.54	AR	ES
COMLAB	834	-1.19	>10000	ald	207	-0.33	977	-0.91	140	-1.23	709	-1.01	80	-1.53	2812	-1.12	1403	-0.93	695	-0.28	AR	ICP
COMLAB	871	0.01	>10000	ald	223	1.35	1116	2.21	154	0.70	767	0.37	99	2.07	3264	2.69	1554	1.96	747	1.52	AR	ES
COMLAB	921	1.61	15644	1.86	219	0.93	1039	0.48	159	1.41	741	-0.25	93	0.95	2978	0.27	1482	0.58	726	0.80	AR	AAS
COMLAB	895	0.78	15445	1.41	213	0.30	1040	0.50	155	0.84	766	0.34	90	0.39	2849	-0.81	1464	0.24	709	0.21	AR	AAS
COMLAB	894	0.75	15241	0.96	208	-0.23	1022	0.09	146	-0.42	753	0.03	87	-0.16	2891	-0.46	1446	-0.11	718	0.52	AR	ES
COMLAB	837	-1.08	13848	-2.14	202	-0.86	910	-2.43	139	-1.40	694	-1.37	100	2.26	2830	-0.97	1430	-0.41	671	-1.10	AR	ICP
COMLAB	724	-3.00	13014	-3.00	253	3.00	901	-2.62	bld	bld	691	-1.44	bld	bld	2734	-1.79	1158	-3.00	641	-2.13	3A,MICR	ES
COMLAB	841	-0.96	14237	-1.27	195	-1.65	993	-0.55	138	-1.52	684	-1.61	81	-1.33	2946	0.01	1403	-0.92	671	-1.10	AR	ES
COMLAB	880	0.30	15111	0.67	239	3.00	1025	0.16	166	2.39	796	1.06	110	3.00	2896	-0.42	1414	-0.72	705	0.07	3A	AAS
COMLAB	908	1.20	14456	-0.79	226	1.67	1032	0.32	194	3.00	792	0.96	122	3.00	2723	-1.88	1445	-0.13	718	0.52	3A	AAS
COMLAB	865	-0.18	14579	-0.51	201	-0.97	1002	-0.36	146	-0.42	758	0.15	83	-0.91	2921	-0.21	1411	-0.78	679	-0.82	AR	ES
COMLAB	713	-3.00	12140	-3.00	169	-3.00	851	-3.00	123	-3.00	599	-3.00	71	-3.00	2468	-3.00	1116	-3.00	548	-3.00	AR	ES
COMLAB	899	0.92	>10000	ald	208	-0.23	1055	0.83	144	-0.70	822	1.68	90	0.41	2862	-0.70	1435	-0.32	713	0.35	AR	MS
COMLAB	862	-0.28	14928	0.26	210	-0.02	1026	0.18	151	0.28	774	0.53	90	0.39	3039	0.79	1496	0.85	716	0.45	AR	ES
COMLAB	599	-3.00	9999	-3.00	130	-3.00	718	-3.00	74	-3.00	509	-3.00	40	-3.00	2331	-3.00	1220	-3.00	367	-3.00	AR	AAS
COMLAB	862	-0.28	13900	-2.02	293	3.00	1040	0.50	218	3.00	754	0.06	141	3.00	3000	0.46	1420	-0.60	688	-0.51	AR	ES
COMLAB	881	0.33	15117	0.68	204	-0.65	1052	0.77	153	0.56	784	0.77	87	-0.16	2944	-0.01	1408	-0.83	709	0.21	AR	AAS
COMLAB	885	0.46	14962	0.34	202	-0.86	1034	0.36	183	3.00	813	1.46	90	0.39	2908	-0.32	1423	-0.55	714	0.38	2A,MICR	ICP
COMLAB	886	0.49	14746	-0.14	210	-0.02	1067	1.11	154	0.70	768	0.39	95	1.33	2943	-0.02	1519	1.29	727	0.83	AR	ES
COMLAB	833	-1.21	14572	-0.53	211	0.09	951	-1.50	158	1.27	667	-2.02	91	0.58	2891	-0.46	1427	-0.47	680	-0.79	AR	ES
COMLAB	899	0.90	14724	-0.19	231	2.24	1072	1.22	152	0.36	755	0.07	95	1.36	3148	1.70	1515	1.21	740	1.29	AR	ICP
COMLAB	900	0.94	>10000	ald	220	1.04	1060	0.95	150	0.14	720	-0.75	89	0.11	2982	0.31	1500	0.92	760	1.97	AR	ICP
COMLAB	808	-2.01	>7500	ald	187	-2.45	901	-2.63	133	-2.25	690	-1.47	82	-1.10	2580	-3.00	1310	-2.71	605	-3.00	AR	MS,AAS
COMLAB	829	-1.34	>5000	ald	207	-0.34	971	-1.05	141	-1.12	704	-1.14	87	-0.16	2670	-2.32	1420	-0.60	687	-0.55	AR	ES
COMLAB	822	-1.57	14608	-0.45	206	-0.46	991	-0.61	141	-1.11	726	-0.61	85	-0.63	2937	-0.07	1456	0.09	678	-0.86	AR	ICP
COMLAB	873	0.07	13983	-1.84	208	-0.23	1029	0.25	148	-0.14	813	1.46	86	-0.35	3077	1.11	1525	1.40	730	0.93	AR	ES
COMLAB	882	0.36	14918	0.24	215	0.51	1029	0.25	150	0.14	785	0.80	90	0.39	3003	0.49	1464	0.23	714	0.39	AR	ES
COMLAB	870	-0.02	13691	-2.49	231	2.20	1007	-0.24	180	3.00	784	0.77	115	3.00	2865	-0.68	1415	-0.70	695	-0.27	3A	ICP
COMLAB	863	-0.25	15355	1.21	212	0.19	1021	0.07	154	0.70	778	0.63	90	0.39	3004	0.49	1476	0.47	732	1.00	AR	AAS
COMLAB	887	0.52	15121	0.69	220	1.04	1031	0.30	146	-0.42	720	-0.75	86	-0.35	3079	1.13	1459	0.14	719	0.56	AR	AAS
MINELAB	860	-0.34	14868	0.13	216	0.65	989	-0.64	154	0.69	713	-0.93	91	0.57	2980	0.29	1401	-0.97	682	-0.71	AR	AAS
MINELAB	880	0.30	14832	0.05	200	-1.08	1008	-0.22	bld	bld	765	0.32	bld	bld	2880	-0.55	1439	-0.24	680	-0.79	AR	AAS
MINELAB	903	1.04	14560	-0.56	387	3.00	1059	0.93	231	3.00	869											



Lead (Total Digest) Round Robin - Summary Statistics, Assays, Standardised Values and Graphs - April 2022

Standard Reference	GBM322-1	GBM322-2	GBM322-3	GBM322-4	GBM322-5	GBM322-6	GBM322-7	GBM322-8	GBM322-9	GBM322-10
MEAN (ppm)	8	11	29	16	22	7	245	1970	258	904
STDEV (ppm)	2	2	2	2	2	2	14	62	11	45
95% CI (ppm)	1	1	1	1	1	1	4	17	3	12
95% CI (%)	7.33%	6.12%	2.20%	3.79%	2.52%	7.36%	1.54%	0.88%	1.20%	1.31%
MIN (ppm)	4	5	24	10	18	3	208	1815	237	788
MEDIAN (ppm)	8	11	30	16	22	7	245	1965	258	910
MAX (ppm)	14	16	35	21	27	12	276	2090	287	983
IQR (ppm)	3	2	3	5	2	3	15	72	16	50
COUNT	49	50	51	54	55	50	56	51	53	57

Standard Reference	GBM322-1		GBM322-2		GBM322-3		GBM322-4		GBM322-5		GBM322-6		GBM322-7		GBM322-8		GBM322-9		GBM322-10		Method	Reading
Lab Reference	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score		
IMPRC IRAN	9	0.24	11	-0.10	30	0.22	17	0.67	26	1.86	7	-0.21	235	-0.71	2180	3.00	258	0.03	910	0.13	4A	ES
COMLAB	48	3.00	29	3.00	171	3.00	33	3.00	21	-0.54	32	3.00	59	-3.00	2010	0.64	1790	3.00	251	-3.00	4A	ES
COMLAB	5	-1.58	10	-0.51	30	0.22	11	-2.07	21	-0.54	7	-0.21	250	0.34	2050	1.28	271	1.17	963	1.30	4A	ES
COMLAB	12	1.61	11	-0.10	29	-0.21	16	0.21	22	-0.06	6	-0.72	244	-0.08	1982	0.19	250	-0.67	908	0.09	4A	AAS
COMLAB	5	-1.58	5	-2.54	34	1.93	14	-0.70	18	-1.97	7	-0.21	225	-1.41	1990	0.32	266	0.73	966	1.37	4A	ICP
COMLAB	6	-1.12	43	3.00	33	1.50	16	0.21	18	-1.97	6	-0.72	227	-1.27	1760	-3.00	241	-1.46	861	-0.95	4A	ICP
COMLAB	5	-1.58	7	-1.73	26	-1.50	12	-1.62	19	-1.49	3	-2.26	239	-0.43	1948	-0.36	249	-0.76	896	-0.18	4A	ES
COMLAB	6	-1.12	10	-0.51	28	-0.64	14	-0.70	21	-0.54	5	-1.24	244	-0.08	1925	-0.73	254	-0.32	914	0.22	4A	ES
COMLAB	7	-0.67	10	-0.51	26	-1.50	14	-0.70	21	-0.54	4	-1.75	243	-0.15	1970	0.00	253	-0.41	922	0.40	4A	ES
COMLAB	6	-1.12	10	-0.51	29	-0.21	15	-0.25	23	0.42	6	-0.72	250	0.34	1955	-0.25	261	0.29	898	-0.14	4A	ES
COMLAB	8	-0.21	9	-0.91	25	-1.92	16	0.21	21	-0.54	9	0.82	235	-0.71	1815	-2.49	251	-0.59	983	1.74	4A	ES
COMLAB	8	-0.21	11	-0.10	32	1.07	18	1.13	23	0.42	8	0.31	254	0.63	1990	0.32	269	1.00	935	0.68	4A	ICP
COMLAB	10	0.70	13	0.72	31	0.64	15	-0.25	22	-0.06	6	-0.72	251	0.42	2050	1.28	266	0.73	927	0.51	4A	ES
COMLAB	6	-1.12	10	-0.51	30	0.22	15	-0.25	20	-1.02	7	-0.21	245	-0.01	2000	0.48	260	0.21	940	0.79	4A	ES
COMLAB	11	1.16	12	0.31	30	0.22	16	0.21	22	-0.06	9	0.82	238	-0.50	1935	-0.57	262	0.38	941	0.82	4A	ES
COMLAB	12	1.61	9	-0.91	29	-0.21	14	-0.70	21	-0.54	6	-0.72	235	-0.71	1955	-0.25	248	-0.85	931	0.59	4A	ES
COMLAB	8	-0.17	10	-0.42	30	0.04	14	-0.79	22	-0.25	7	-0.10	250	0.34	2050	1.28	265	0.65	921	0.37	4A	MS
COMLAB	9	0.24	12	0.31	27	-1.07	16	0.21	22	-0.06	1	-3.00	239	-0.43	1927	-0.70	242	-1.38	849	-1.22	5A	ES
COMLAB	4	-2.03	8	-1.32	27	-1.07	15	-0.25	19	-1.49	5	-1.24	218	-1.90	1700	-3.00	219	-3.00	802	-2.26	4A	ES
COMLAB	8	-0.22	10	-0.49	29	-0.38	15	-0.35	21	-0.40	6	-0.58	239	-0.41	1940	-0.48	252	-0.53	921	0.38	4A	ICP
COMLAB	8	-0.21	9	-0.91	28	-0.64	15	-0.25	21	-0.54	7	-0.21	245	-0.01	2040	1.12	266	0.73	945	0.90	4A	MS
COMLAB	10	0.70	11	-0.10	30	0.22	16	0.21	23	0.42	8	0.31	250	0.34	2040	1.12	260	0.21	950	1.01	4A	MS
COMLAB	8	-0.06	10	-0.51	30	0.00	17	0.59	21	-0.56	9	0.58	236	-0.66	2053	1.33	211	-3.00	810	-2.09	4A	ICP
COMLAB	<5	bld	<5	bld	19	-3.00	11	-2.03	19	-1.58	<5	bld	219	-1.84	2216	3.00	170	-3.00	850	-1.20	4A	ICP
COMLAB	10	0.70	12	0.31	30	0.22	15	-0.25	23	0.42	9	0.82	253	0.56	1971	0.01	261	0.29	909	0.11	4A	MS
COMLAB	9	0.24	13	0.72	32	1.07	18	1.13	23	0.42	8	0.31	250	0.34	1920	-0.81	251	-0.59	893	-0.25	4A	AAS
COMLAB	8	-0.21	10	-0.51	30	0.22	15	-0.25	22	-0.06	6	-0.72	230	-1.06	1943	-0.44	239	-1.64	836	-1.51	4A	ES
COMLAB	9	0.31	12	0.10	30	0.00	16	0.07	23	0.42	7	-0.03	239	-0.43	2000	0.48	256	-0.15	910	0.13	4A	MS
COMLAB	58	3.00	61	3.00	72	3.00	66	3.00	67	3.00	47	3.00	272	1.89	1946	-0.39	239	-1.64	877	-0.60	4A	AAS
COMLAB	132	3.00	193	3.00	147	3.00	150	3.00	130	3.00	109	3.00	328	3.00	1859	-1.78	315	3.00	855	-1.08	3A,MICR	ES
COMLAB	10	0.70	12	0.31	31	0.64	17	0.67	26	1.86	7	-0.21	257	0.84	1993	0.37	254	-0.32	910	0.13	4A	MS,AAS
COMLAB	<20	bld	<20	bld	24	-2.35	<20	bld	23	0.42	<20	bld	276	2.17	2005	0.56	287	2.58	953	1.08	4A	AAS
COMLAB	12	1.61	16	1.94	37	3.00	20	2.04	27	2.34	12	2.36	266	1.47	2068	1.57	273	1.35	962	1.28	4A	ES
COMLAB	10	0.88	12	0.31	32	1.16	16	0.39	25	1.19	7	0.00	271	1.82	2090	1.92	271	1.17	957	1.17	4A	MS
COMLAB	6	-1.12	9	-0.91	27	-1.07	13	-1.16	19	-1.49	<5	bld	254	0.63	1939	-0.50	248	-0.85	892	-0.27	4A	ES
COMLAB	9	0.43	12	0.19	31	0.77	17	0.58	24	1.09	8	0.10	254	0.60	2055	1.37	268	0.92	934	0.66	4A	MS
COMLAB	10	0.70	12	0.31	32	1.07	16	0.21	23	0.42	7	-0.21	252	0.49	1970	0.00	266	0.73	930	0.57	4A	MS
COMLAB	8	-0.21	11	-0.10	29	-0.21	16	0.21	23	0.42	6	-0.72	247	0.13	1945	-0.41	257	-0.06	893	-0.25	4A	ICP
COMLAB	<400	bld	<400	bld	<400	bld	<400	bld	<400	bld	<400	bld	<400	bld	2210	3.00	<400	bld	1060	3.00	FUS	ES
COMLAB	9	0.24	10	-0.42	28	-0.55	15	-0.25	22	-0.20	6	-0.57	290	3.00	2075	1.68	261	0.29	941	0.82	4A	ICP
COMLAB	<10	bld	<10	bld	<10	-3.00	<10	bld	<10	-3.00	<10	bld	240	-0.36	1967	-0.05	276	1.61	902	-0.05	FUS	ICP
COMLAB	<1	-3.00	23	3.00	22	-3.00	11	-1.89	12	-3.00	<1	-3.00	208	-2.61	1640	-3.00	222	-3.00	788	-2.57	4A	ICP
COMLAB	8	-0.44	10	-0.51	26	-1.50	14	-0.89	20	-1.16	6	-0.82	249	0.29	1935	-0.56	245	-1.15	939	0.77	4A	MS
COMLAB	13	1.98	7	-1.85	16	-3.00	10	-2.67	22	-0.25	10	1.18	234	-0.78	188	-3.00	237	-1.82	84	-3.00	4A	AAS
COMLAB	6	-1.12	9	-0.91	27	-1.07	16	0.21	23	0.42	8	0.31	247	0.13	1910	-0.97	246	-1.02	894	-0.22	4A	ES
COMLAB	8	-0.21	16	1.94	31	0.64	15	-0.25	23	0.42	9	0.82	245	-0.01	1910	-0.97	255	-0.23	885	-0.42	4A	ES
COMLAB	253	3.00	207	3.00	112	3.00	81	3.00	339	3.00	58	3.00	591	3.00	2749	3.00	378	3.00	1269	3.00	4A	AAS
COMLAB	14	2.52	14	1.12	32	1.07	19	1.58	25	1.38	12	2.36	225	-1.41	1850	-1.93	237	-1.82	924	0.44	4A	ES
COMLAB	9	0.24	16	1.94	29	-0.21	16	0.21	26	1.86	10	1.33	229	-1.13	1740	-3.00	258	0.03	845	-1.31	4A	AAS
COMLAB	10	0.70	12	0.31	28	-0.64	17	0.67	25	1.38	7	-0.21	274	2.03	1990	0.32	278	1.79	891	-0.29	4A,FUS	AAS,MS
COMLAB	18	3.00	24	3.00	30	0.39	17	0.62	25	1.57	10	1.36	265	1.41	2044	1.18	271	1.17	958	1.19	4A	AAS
COMLAB	11	1.16	16	1.94	35	2.35	21	2.50	26	1.86	10	1.33	250	0.34	1933	-0.60	259	0.12	924	0.44	4A	AAS
COMLAB	8	-0.21	10	-0.51	31	0.64	15	-0.25	21	-0.54	10	1.33	269	1.68	1840	-2.09	270	1.09	922	0.40	4A	ES
COMLAB	9	0.29	14	1.08	31	0.51	20	1.99	24	0.80	9	0.67	230	-1.06	1775	-3.00	241	-1.46	821	-1.84	4A	MS
COMLAB	9	0.22	14	1.09	32	1.21	18	1.19	25	1.27	8	0.45	238	-0.49	1899	-1.14	262	0.41	867	-0.82	4A	ICP
COMLAB	9	0.24	12	0.31	30	0.22	16	0.21	23	0.42	7	-0.21	247	0.13	1934	-0.58	250	-0.67	845	-1.31	4A	ES
COMLAB	8	-0.21	11	-0.10	29	-0.21	18	1.13	20	-1.02	4	-1.75	250	0.34	1958	-0.20	258	0.03	933	0.64	4A	ES

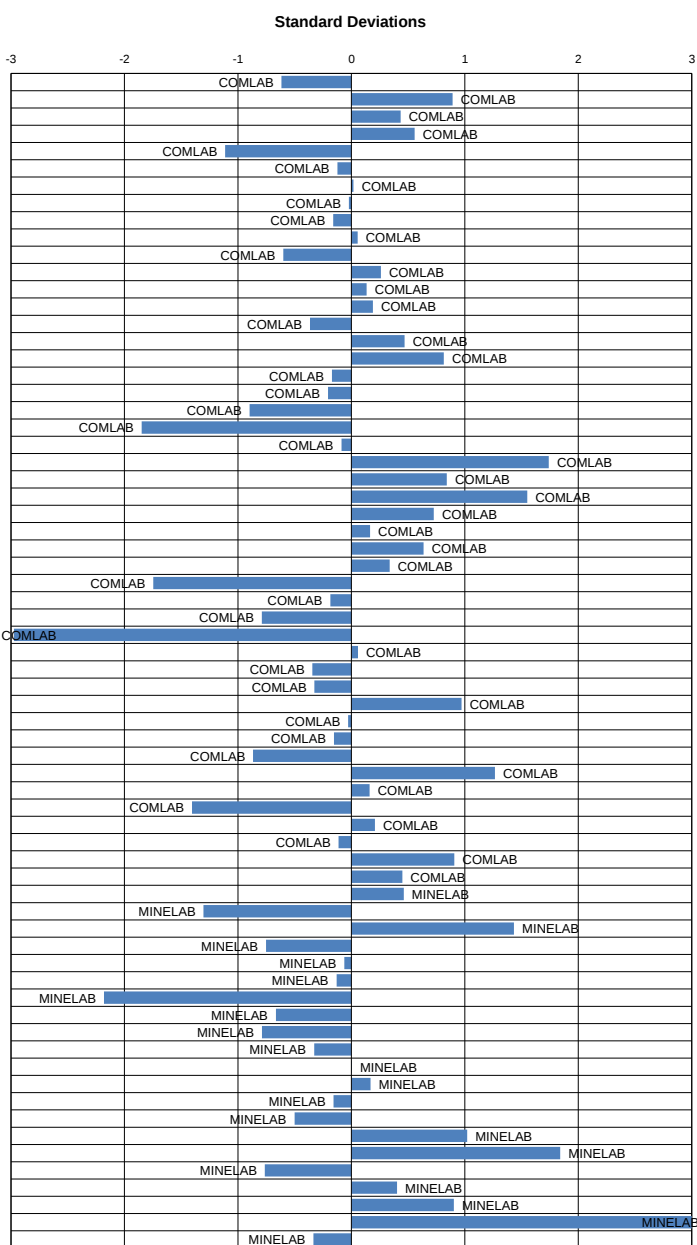


Lead (Partial Digest) Round Robin - Summary Statistics, Assays, Standardised Values and Graphs - April 2022

Standard Reference	GBM322-1	GBM322-2	GBM322-3	GBM322-4	GBM322-5	GBM322-6	GBM322-7	GBM322-8	GBM322-9	GBM322-10
MEAN (ppm)	5	10	30	15	20	6	247	1944	248	902
STDEV (ppm)	2	2	4	2	2	2	12	66	12	44
95% CI (ppm)	1	0	1	1	1	1	3	17	3	11
95% CI (%)	12.63%	4.65%	3.17%	4.43%	2.60%	10.18%	1.21%	0.89%	1.27%	1.23%
MIN (ppm)	1	7	23	8	16	1	221	1796	217	801
MEDIAN (ppm)	4	10	29	15	20	6	248	1955	249	906
MAX (ppm)	10	13	38	21	25	11	275	2055	276	994
IQR (ppm)	4	2	5	2	2	2	13	89	14	55
COUNT	51	44	58	57	57	56	59	58	60	60

Standard Reference	GBM322-1	GBM322-2	GBM322-3	GBM322-4	GBM322-5	GBM322-6	GBM322-7	GBM322-8	GBM322-9	GBM322-10	Method	Reading
Lab Reference	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score
COMLAB	3	-0.82	7	-1.84	25	-1.27	14	-0.28	21	0.65	5	-0.37
COMLAB	<2	bld	12	1.44	31	0.39	15	0.13	21	0.65	4	-0.82
COMLAB	7	1.01	10	0.13	29	-0.16	15	0.13	22	1.17	6	0.07
COMLAB	7	0.92	42	3.00	36	1.89	19	1.82	20	0.04	11	2.39
COMLAB	3	-0.82	9	-0.53	27	-0.71	14	-0.28	19	-0.37	5	-0.37
COMLAB	4	-0.36	10	0.13	29	-0.16	15	0.13	19	-0.37	5	-0.37
COMLAB	3	-0.82	9	-0.53	29	-0.16	14	-0.28	18	-0.88	5	-0.37
COMLAB	4	-0.36	9	-0.53	28	-0.44	17	0.93	19	-0.37	5	-0.37
COMLAB	<2	bld	7	-1.84	28	-0.44	13	-0.68	17	-1.39	6	0.07
COMLAB	2	-1.28	11	0.78	30	0.12	15	0.13	20	0.14	6	0.07
COMLAB	2	-1.28	8	-1.18	29	-0.16	14	-0.28	17	-1.39	3	-1.26
COMLAB	4	-0.36	12	1.44	30	0.12	14	-0.28	19	-0.37	4	-0.82
COMLAB	4	-0.36	10	0.13	27	-0.71	17	0.93	20	0.14	6	0.07
COMLAB	5	0.10	9	-0.53	32	0.67	15	0.13	19	-0.37	6	0.07
COMLAB	3	-0.82	11	0.78	26	-0.99	14	-0.28	17	-1.39	4	-0.82
COMLAB	7	1.01	10	0.13	35	1.50	19	1.74	20	0.14	8	0.96
COMLAB	6	0.56	11	0.78	34	1.22	16	0.53	23	1.68	6	0.07
COMLAB	6	0.56	10	0.13	27	-0.71	13	-0.68	20	0.14	6	0.07
COMLAB	3	-0.91	8	-0.92	29	-0.30	15	0.09	18	-0.88	4	-0.73
COMLAB	3	-0.82	10	0.13	28	-0.44	13	-0.68	19	-0.37	1	-2.15
COMLAB	2	-1.28	8	-1.18	24	-1.54	14	-0.28	17	-1.39	4	-0.82
COMLAB	4	-0.57	10	0.38	31	0.39	15	0.15	20	0.10	5	-0.23
COMLAB	7	1.01	19	3.00	33	0.95	24	3.00	22	1.17	8	0.96
COMLAB	6	0.56	12	1.44	33	0.95	17	0.93	22	1.17	7	0.52
COMLAB	7	1.01	27	3.00	38	2.33	20	2.14	22	1.17	11	2.30
COMLAB	10	2.39	26	3.00	32	0.67	14	-0.28	21	0.65	11	2.30
COMLAB	bld	bld	32	3.00	36	1.85	24	3.00	27	3.00	bld	bld
COMLAB	43	3.00	806	3.00	33	0.87	63	3.00	21	0.71	33	3.00
COMLAB	<40	bld	<40	bld	<40	bld	<40	bld	<40	bld	<40	bld
COMLAB	3	-0.82	9	-0.53	25	-1.27	12	-1.08	17	-1.39	5	-0.37
COMLAB	4	-0.50	9	-0.40	28	-0.46	14	-0.32	21	0.55	5	-0.42
COMLAB	<2	bld	7	-1.84	25	-1.27	13	-0.68	19	-0.37	4	-0.82
COMLAB	<2	bld	3	-3.00	14	-3.00	8	-2.80	10	-3.00	<2	bld
COMLAB	7	1.01	15	3.00	29	-0.16	15	0.13	22	1.17	8	0.96
COMLAB	3	-0.82	11	0.78	26	-0.99	15	0.13	20	0.14	5	-0.37
COMLAB	9	1.93	7	-1.84	28	-0.44	11	-1.48	17	-1.39	6	0.07
COMLAB	7	1.01	13	2.09	35	1.50	17	0.93	23	1.68	9	1.41
COMLAB	3	-0.60	10	0.01	28	-0.36	15	0.10	19	-0.33	5	-0.30
COMLAB	3	-0.82	11	0.72	29	-0.16	12	-0.92	17	-1.39	5	-0.51
COMLAB	4	-0.36	8	-1.18	26	-0.99	14	-0.28	21	0.65	6	0.07
COMLAB	9	1.93	15	3.00	37	2.05	21	2.54	22	1.17	7	0.52
COMLAB	4	-0.20	19	3.00	33	0.89	14	-0.24	19	-0.30	5	-0.50
COMLAB	5	0.10	5	-3.00	24	-1.54	10	-1.88	16	-1.90	2	-1.71
COMLAB	4	-0.36	11	0.78	29	-0.16	15	0.13	21	0.65	5	-0.37
COMLAB	5	0.10	16	3.00	32	0.67	19	1.74	22	1.17	5	-0.37
COMLAB	<5	bld	12	1.44	34	1.22	17	0.93	25	2.70	7	0.52
COMLAB	7	1.01	9	-0.53	26	-0.99	16	0.53	17	-1.39	4	-0.82
MINELAB	7	1.03	10	-0.09	31	0.33	15	-0.01	19	-0.57	7	0.46
MINELAB	10	2.39	10	0.13	10	-3.00	10	-1.88	10	-3.00	10	1.85
MINELAB	<50	bld	<50	bld	<50	bld	<50	bld	<50	bld	<50	bld
MINELAB	4	-0.14	9	-0.34	23	-1.87	17	0.98	17	-1.37	7	0.36
MINELAB	<200	bld	<200	bld	<200	bld	<200	bld	<200	bld	<200	bld
MINELAB	<100	bld	<100	bld	<100	bld	<100	bld	<100	bld	<100	bld
MINELAB	3	-1.00	9	-0.79	25	-1.16	9	-2.37	12	-3.00	3	-1.48
MINELAB	<2	bld	4	-3.00	28	-0.36	12	-1.09	21	0.88	<2	bld
MINELAB	3	-0.66	9	-0.74	28	-0.56	15	-0.05	17	-1.16	6	0.27
MINELAB	4	-0.32	10	-0.20	31	0.39	15	0.00	21	0.57	6	0.16
MINELAB	<17	bld	<17	bld	30	0.10	<17	bld	20	0.12	<17	bld
MINELAB	6	0.56	12	1.44	30	0.12	14	-0.28	20	0.14	8	0.96
MINELAB	<10	bld	<10	bld	27	-0.71	15	0.13	19	-0.37	11	2.30
MINELAB	2	-1.28	39	3.00	15	-3.00	15	0.13	20	0.14	3	-1.26
MINELAB	3	-0.82	12	1.44	34	1.22	16	0.53	21	0.65	5	-0.37
MINELAB	18	3.00	23	3.00	47	3.00	32	3.00	33	3.00	20	3.00
MINELAB	1	-1.74	10	0.13	23	-1.82	16	0.53	17	-1.39	2	-1.71
MINELAB	7	1.01	11	0.78	31	0.39	14	-0.28	19	-0.37	7	0.52
MINELAB	5	0.10	16	3.00	32	0.67	16	0.53	22	1.17	7	0.52
MINELAB	46	3.00	52	3.00	69	3.00	53	3.00	60	3.00	46	3.00
MINELAB	<0.1	bld	<0.1	-3.00	31	0.42	11	-1.56	18	-0.73	9	1.58

Highlighted values are outliers which are assigned a z-score of -3.00 or 3.00 in the standardised values.



Zinc (Total Digest) Round Robin - Summary Statistics, Assays, Standardised Values and Graphs - April 2022

Standard Reference	GBM322-1	GBM322-2	GBM322-3	GBM322-4	GBM322-5	GBM322-6	GBM322-7	GBM322-8	GBM322-9	GBM322-10
MEAN (ppm)	66	13776	142	107	94	75	924	7016	696	809
STDEV (ppm)	5	1006	9	5	4	4	32	344	34	46
95% CI (ppm)	1	271	2	1	1	1	9	89	9	12
95% CI (%)	2.18%	1.97%	1.74%	1.15%	1.32%	1.62%	0.92%	1.27%	1.28%	1.44%
MIN (ppm)	52	11080	120	95	84	67	871	6103	627	702
MEDIAN (ppm)	66	13750	141	108	94	74	915	6989	694	814
MAX (ppm)	78	16000	168	116	106	85	1000	7910	777	915
IQR (ppm)	6	1172	10	4	5	4	38	361	52	62
COUNT	55	54	58	54	50	50	56	58	57	60

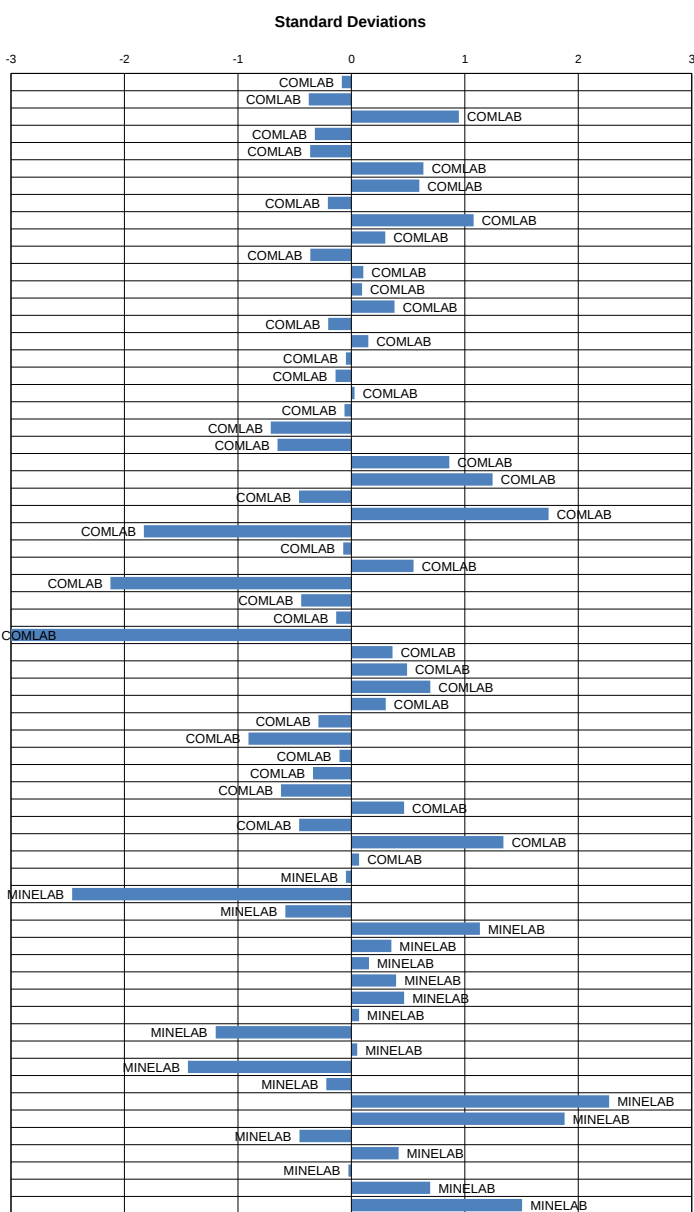
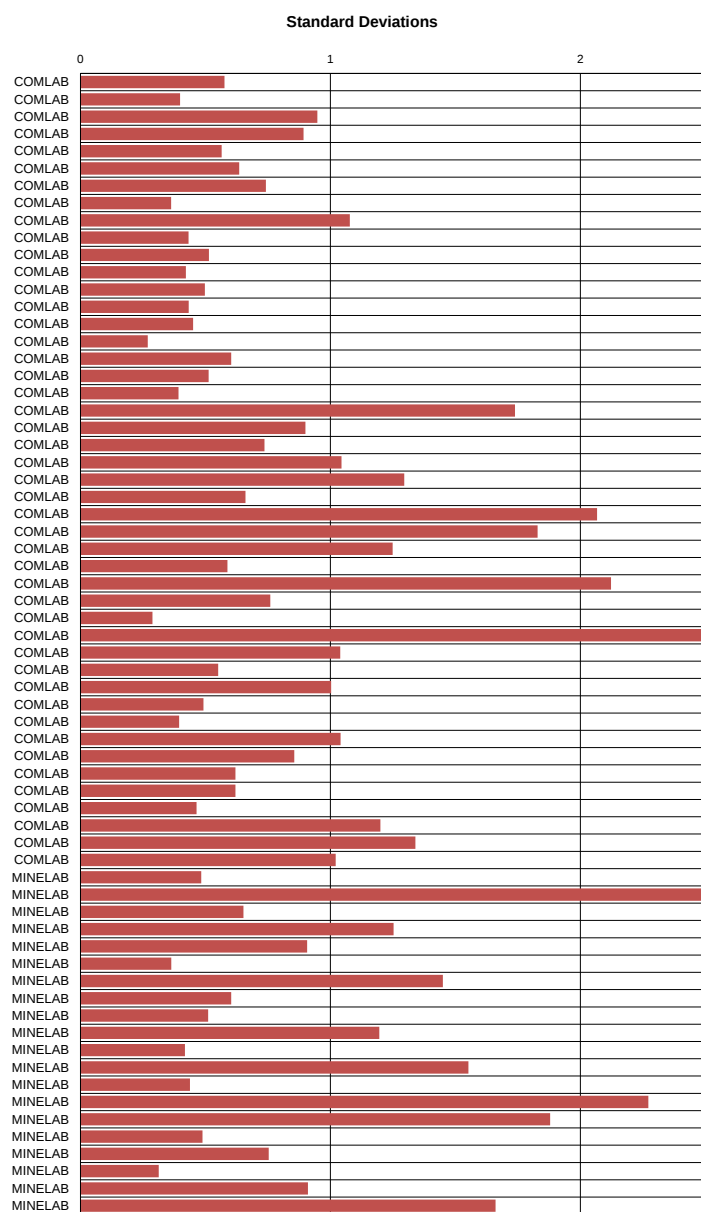
Standard Reference	GBM322-1		GBM322-2		GBM322-3		GBM322-4		GBM322-5		GBM322-6		GBM322-7		GBM322-8		GBM322-9		GBM322-10		Method	Reading
Lab Reference	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score		
IMPRC IRAN	69	0.53	12655	-1.11	136	-0.61	106	-0.27	104	2.17	81	1.38	855	-2.13	7120	0.30	712	0.48	769	-0.87	4A	ES
COMLAB	64	-0.39	13300	-0.47	135	-0.72	109	0.39	97	0.59	78	0.68	914	-0.30	6850	-0.48	694	-0.04	816	0.16	4A	ES
COMLAB	59	-1.31	14400	0.62	130	-1.24	102	-1.14	88	-1.43	74	-0.24	885	-1.20	6710	-0.89	660	-1.04	765	-0.96	4A	ES
COMLAB	71	0.90	14856	1.07	156	1.49	116	1.91	101	1.49	81	1.38	927	0.11	6939	-0.22	692	-0.10	821	0.27	4A	AAS
COMLAB	207	3.00	15600	1.81	156	1.49	104	-0.70	101	1.49	80	1.17	953	0.91	9020	3.00	749	1.57	958	3.00	4A	ICP
COMLAB	68	0.29	12700	-1.07	141	-0.09	106	-0.27	91	-0.66	76	0.11	914	-0.30	6740	-0.80	669	-0.78	804	-0.11	4A	ICP
COMLAB	nr	nr	13996	0.22	nr	nr	nr	nr	nr	nr	nr	nr	nr	nr	nr	nr	nr	nr	nr	nr	4A	ES
COMLAB	57	-1.68	13563	-0.21	125	-1.77	96	-2.45	84	-2.33	67	-1.86	906	-0.55	6758	-0.75	666	-0.87	784	-0.54	4A	ES
COMLAB	67	0.17	13950	0.17	149	0.76	108	0.17	95	0.14	79	0.92	954	0.94	6990	-0.07	725	0.86	859	1.10	4A	ES
COMLAB	65	-0.20	13800	0.02	143	0.12	108	0.17	95	0.14	74	-0.24	929	0.17	7050	0.10	713	0.51	862	1.16	4A	ES
COMLAB	61	-0.94	14500	0.72	143	0.12	110	0.60	93	-0.30	72	-0.70	926	0.07	6990	-0.07	701	0.16	815	0.13	4A	ES
COMLAB	72	1.09	>10000	ald	144	0.23	165	3.00	98	0.82	68	-1.62	965	1.28	6510	-1.47	727	0.92	817	0.18	4A	ES
COMLAB	66	-0.02	14700	0.92	146	0.44	108	0.17	94	-0.08	75	-0.01	935	0.35	7400	1.12	731	1.04	843	0.75	4A	ICP
COMLAB	62	-0.76	15300	1.51	144	0.23	109	0.39	92	-0.53	74	-0.24	964	1.25	7400	1.12	741	1.33	864	1.21	4A	ES
COMLAB	66	-0.02	13700	-0.08	146	0.44	108	0.17	94	-0.08	84	2.07	936	0.38	6988	-0.08	692	-0.10	888	1.73	4A	ES
COMLAB	64	-0.39	14150	0.37	140	-0.19	107	-0.05	90	-0.98	73	-0.47	934	0.32	6880	-0.39	703	0.22	840	0.68	4A	ES
COMLAB	77	2.01	>10000	ald	143	0.12	108	0.17	93	-0.30	77	0.45	935	0.35	6740	-0.80	704	0.25	839	0.66	4A	ES
COMLAB	67	0.17	14500	0.72	147	0.55	113	1.26	98	0.82	75	-0.01	969	1.41	7410	1.15	752	1.66	862	1.16	4A	MS
COMLAB	89	3.00	15249	1.46	148	0.65	123	3.00	116	3.00	99	3.00	871	-1.63	7043	0.08	627	-2.01	713	-2.10	5A	ES
COMLAB	76	1.76	12300	-1.47	137	-0.51	111	0.82	100	1.27	77	0.45	910	-0.42	6500	-1.50	638	-1.69	755	-1.18	4A	ES
COMLAB	60	-1.15	>10000	ald	136	-0.57	105	-0.46	89	-1.16	70	-1.14	892	-0.98	7168	0.44	684	-0.35	805	-0.09	4A	ICP
COMLAB	69	0.53	14300	0.52	136	-0.61	106	-0.27	96	0.37	73	-0.47	996	2.25	7760	2.17	744	1.42	879	1.53	4A	ES
COMLAB	<200	bld	13600	-0.18	<200	bld	<200	bld	<200	bld	<200	bld	<200	bld	7150	0.39	670	-0.75	820	0.24	NAA	
COMLAB	68	0.35	13600	-0.18	136	-0.61	102	-1.14	94	-0.08	84	2.07	908	-0.48	6770	-0.71	682	-0.40	812	0.07	4A	ES
COMLAB	58	-1.56	13150	-0.62	129	-1.39	103	-0.84	86	-1.80	76	0.33	929	-0.18	8095	3.00	630	-1.92	730	-1.72	4A	ICP
COMLAB	41	-3.00	15355	1.57	102	-3.00	73	-3.00	76	-3.00	53	-3.00	730	-3.00	7632	1.79	584	-3.00	773	-0.78	4A	ICP
COMLAB	67	0.17	13200	-0.57	139	-0.30	108	0.17	100	1.27	94	3.00	911	-0.39	6690	-0.95	685	-0.31	835	0.57	4A	ES
COMLAB	66	-0.02	13641	-0.13	143	0.12	111	0.82	97	0.59	76	0.22	894	-0.92	nr	nr	667	-0.84	793	-0.35	4A	AAS
COMLAB	64	-0.39	12977	-0.79	138	-0.40	105	-0.49	93	-0.30	69	-1.39	897	-0.83	7132	0.34	664	-0.92	730	-1.72	4A	ES
COMLAB	64	-0.46	16000	2.21	138	-0.40	106	-0.27	92	-0.44	75	-0.03	903	-0.64	6970	-0.13	692	-0.10	801	-0.17	4A	
COMLAB	207	3.00	11640	-2.12	230	3.00	180	3.00	174	3.00	190	3.00	1102	3.00	6800	-0.63	724	0.84	848	0.86	4A	AAS
COMLAB	164	3.00	11080	-2.68	210	3.00	212	3.00	160	3.00	132	3.00	900	-0.73	6103	-2.66	654	-1.21	753	-1.21	3A,MICR	ES
COMLAB	59	-1.31	13370	-0.40	130	-1.24	98	-2.01	88	-1.43	69	-1.39	904	-0.61	6983	-0.10	668	-0.81	793	-0.35	4A	MSAAS
COMLAB	67	0.17	13323	-0.45	142	0.02	111	0.82	92	-0.53	73	-0.47	902	-0.67	7412	1.15	684	-0.34	805	-0.08	4A	AAS
COMLAB	71	0.90	14500	0.72	155	1.39	121	3.00	96	0.37	85	2.30	1030	3.00	7801	2.28	777	2.39	915	2.32	4A	ES
COMLAB	65	-0.30	13600	-0.18	157	1.60	108	0.17	103	1.94	73	-0.59	1000	2.37	7590	1.67	752	1.66	860	1.12	4A	MS
COMLAB	66	-0.02	12854	-0.92	139	-0.30	105	-0.49	95	0.14	74	-0.24	900	-0.73	6930	-0.25	687	-0.25	815	0.13	4A	ES
COMLAB	69	0.53	13700	-0.08	141	-0.09	109	0.39	100	1.27	78	0.68	906	-0.55	7028	0.04	702	0.19	794	-0.32	4A	MS
COMLAB	68	0.35	13900	0.12	146	0.44	114	1.48	95	0.14	77	0.45	938	0.45	7390	1.09	718	0.66	838	0.64	4A	ES
COMLAB	64	-0.39	17738	3.00	145	0.33	106	-0.27	95	0.14	74	-0.24	924	0.01	6988	-0.08	702	0.19	817	0.18	4A	ICP
COMLAB	73	1.27	13100	-0.67	150	0.86	126	3.00	106	2.62	91	3.00	976	1.62	7290	0.80	729	0.98	852	0.94	FUS	ES
COMLAB	84	3.00	14950	1.17	143	0.12	109	0.39	93	-0.37	75	-0.08	915	-0.27	7060	0.13	690	-0.16	799	-0.22	4A	ICP
COMLAB	355	3.00	12067	-1.70	120	-2.30	111	0.82	108	3.00	<10	-3.00	892	-0.98	7067	0.15	663	-0.95	756	-1.16	FUS	ICP
COMLAB	52	-2.55	13900	0.12	85	-3.00	74	-3.00	52	-3.00	38	-3.00	773	-3.00	5620	-3.00	563	-3.00	597	-3.00	4A	ICP
COMLAB	62	-0.76	>10000	ald	135	-0.72	102	-1.14	93	-0.30	71	-0.93	994	2.18	6752	-0.77	808	3.00	804	-0.11	4A	ES
COMLAB	69	0.57	<0.1	-3.00	136	-0.61	107	-0.05	99	1.09	85	2.32	892	-0.98	6892	-0.36	670	-0.75	770	-0.85	4A	AAS
COMLAB	62	-0.76	14034	0.26	135	-0.72	106	-0.27	94	-0.08	75	-0.01	913	-0.33	6986	-0.09	695	-0.02	805	-0.08	4A	ES
COMLAB	63	-0.57	14100	0.32	165	2.44	116	1.91	144	3.00	101	3.00	990	2.06	7003	-0.04	714	0.54	846	0.81	4A	ES
COMLAB	69	0.53	11401	-2.36	156	1.49	113	1.26	112	3.00	122	3.00	739	-3.00	6622	-1.15	573	-3.00	702	-2.34	4A	AAS
COMLAB	78	2.20	13182	-0.59	160	1.91	114	1.48	109	3.00	97	3.00	930	0.20	7123	0.31	745	1.45	868	1.29	4A	ES
COMLAB	65	-0.20	14720	0.94	133	-0.93	109	0.39	99	0.94	77	0.45	877	-1.45	6880	-0.39	641	-1.60	759	-1.09	4A	AAS
COMLAB	60	-1.13	13000	-0.77	140	-0.19	99	-1.79	92	-0.53	73	-0.47	940	0.51	6700	-0.92	700	0.13	820	0.24	4A	AAS
COMLAB	77	2.02	12930	-0.84	138	-0.40	109	0.31	96	0.37	77	0.44	928	0.14	6575	-1.28	718	0.67	780	-0.64	4A	AAS
COMLAB	62	-0.76	14272	0.49	140	-0.19	107	-0.05	92	-0.53	74	-0.24	904	-0.61	7042	0.08	674	-0.63	783	-0.57	4A	AAS
COMLAB	68	0.35	13400	-0.37	133	-0.93	99	-1.79	86	-1.88	73	-0.47	883	-1.26	6830	-0.54	670	-0.75	749	-1.31	4A	ES
COMLAB	69	0.53																				



Zinc (Partial Digest) Round Robin - Summary Statistics, Assays, Standardised Values and Graphs - April 2022

Standard Reference	GBM322-1	GBM322-2	GBM322-3	GBM322-4	GBM322-5	GBM322-6	GBM322-7	GBM322-8	GBM322-9	GBM322-10
MEAN (ppm)	59	13690	133	104	90	72	914	6970	672	788
STDEV (ppm)	4	849	10	6	6	6	42	341	22	39
95% CI (ppm)	1	235	2	1	2	1	10	86	6	10
95% CI (%)	1.79%	1.72%	1.82%	1.43%	1.71%	2.00%	1.14%	1.23%	0.87%	1.23%
MIN (ppm)	50	11570	114	89	76	59	807	6053	612	682
MEDIAN (ppm)	58	13729	131	104	90	72	911	6983	674	789
MAX (ppm)	69	15452	154	117	105	85	1029	7709	711	864
IQR (ppm)	5	796	12	7	6	6	55	347	25	44
COUNT	57	51	62	61	58	58	64	62	57	63

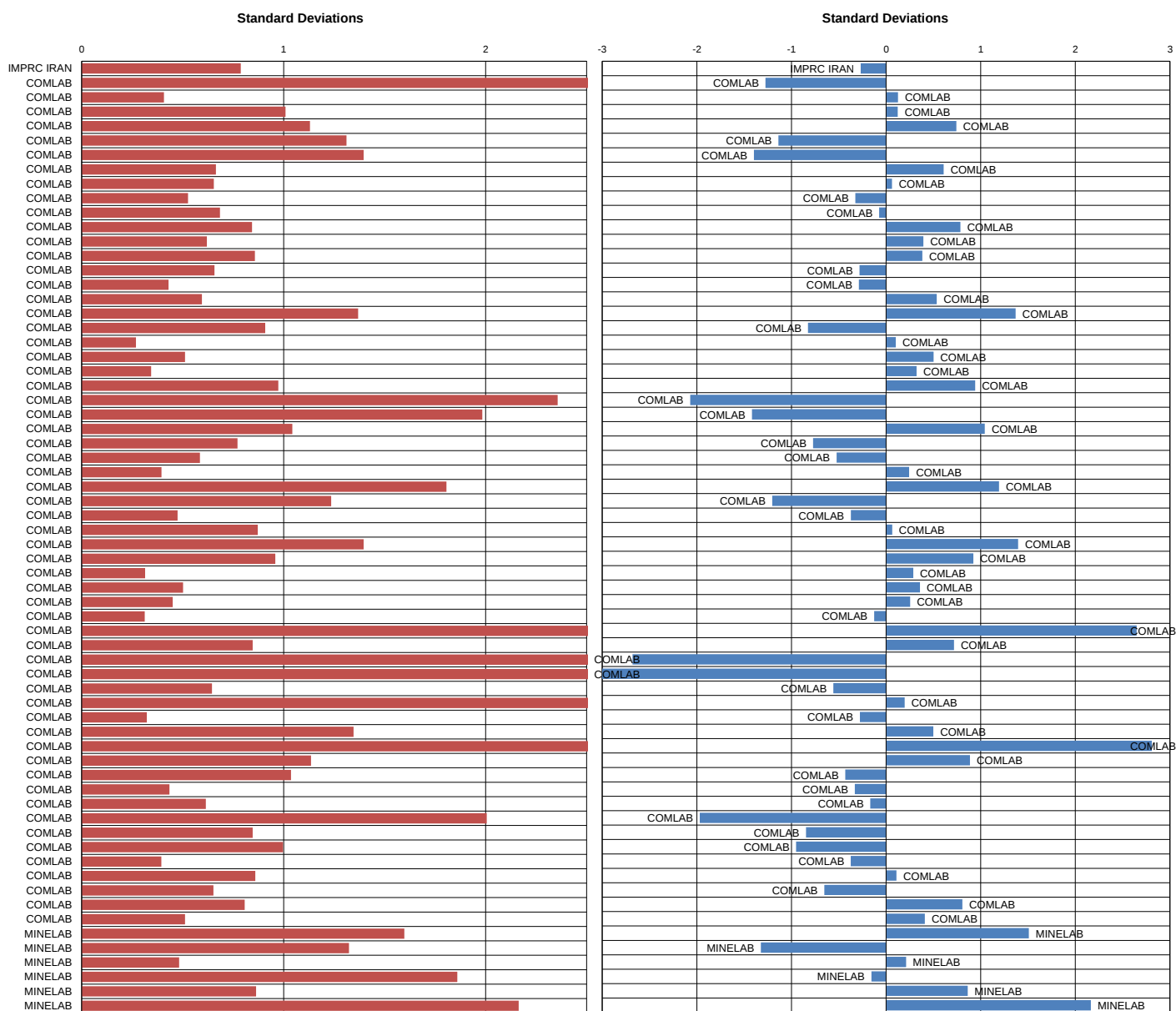
Standard Reference	GBM322-1		GBM322-2		GBM322-3		GBM322-4		GBM322-5		GBM322-6		GBM322-7		GBM322-8		GBM322-9		GBM322-10		Method	Reading
Lab Reference	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score		
COMLAB	60	0.35	>10000	ald	120	-1.30	104	0.06	96	0.93	77	0.87	898	-0.37	6850	-0.35	666	-0.25	761	-0.69	AR	ICP
COMLAB	59	0.10	>10000	ald	128	-0.47	102	-0.28	88	-0.41	69	-0.57	906	-0.18	6880	-0.26	663	-0.39	752	-0.92	AR	ICP
COMLAB	65	1.60	14492	0.94	154	2.23	113	1.60	97	1.10	80	1.41	914	0.01	7023	0.15	681	0.42	788	0.01	AR	AAS
COMLAB	69	2.57	13500	-0.22	125	-0.78	98	-1.02	88	-0.41	72	-0.08	902	-0.27	6630	-1.00	647	-1.11	757	-0.79	AR	ICP
COMLAB	55	-0.89	nr	nr	120	-1.30	98	-0.97	88	-0.41	72	-0.03	891	-0.54	7043	0.21	687	0.69	786	-0.04	AR	ES
COMLAB	59	0.10	13850	0.19	138	0.57	106	0.40	92	0.26	76	0.69	964	1.20	7080	0.32	694	1.00	833	1.17	AR	ES
COMLAB	56	-0.64	13700	0.01	136	0.36	108	0.74	91	0.10	73	0.15	967	1.27	7010	0.12	711	1.77	847	1.53	AR	ES
COMLAB	56	-0.64	>10000	ald	130	-0.26	105	0.23	89	-0.24	70	-0.39	904	-0.23	6860	-0.32	661	-0.48	806	0.47	AR	ES
COMLAB	59	0.10	14550	1.01	141	0.88	108	0.74	93	0.43	78	1.05	981	1.60	7410	1.29	708	1.63	864	1.97	AR	ICP
COMLAB	57	-0.39	15200	1.78	138	0.57	106	0.40	91	0.10	72	-0.03	934	0.49	6910	-0.18	685	0.60	832	1.14	AR	ES
COMLAB	52	-1.64	14250	0.66	127	-0.58	100	-0.63	89	-0.24	69	-0.57	932	0.44	6870	-0.29	674	0.11	793	0.14	AR	ES
COMLAB	57	-0.39	13950	0.31	132	-0.06	102	-0.28	89	-0.24	70	-0.39	920	0.15	6950	-0.06	702	1.36	821	0.86	AR	ES
COMLAB	55	-0.89	13100	-0.70	134	0.15	105	0.23	90	-0.07	71	-0.21	951	0.89	6750	-0.65	687	0.69	815	0.70	AR	ES
COMLAB	63	1.10	>10000	ald	136	0.36	104	0.06	90	-0.07	74	0.33	944	0.72	7190	0.64	668	-0.16	805	0.45	AR	ES
COMLAB	51	-1.89	14100	0.48	130	-0.26	105	0.23	88	-0.41	70	-0.39	937	0.56	7000	0.09	675	0.15	791	0.09	AR	ES
COMLAB	57	-0.39	15050	1.60	139	0.67	103	-0.11	91	0.10	75	0.51	914	0.01	7100	0.38	671	-0.03	796	0.21	AR	AAS
COMLAB	54	-1.14	14800	1.31	129	-0.37	100	-0.63	88	-0.41	70	-0.39	931	0.41	7160	0.56	690	0.82	815	0.70	AR	AAS
COMLAB	60	0.35	>10000	ald	128	-0.47	100	-0.63	91	0.10	79	1.23	885	-0.68	6790	-0.53	662	-0.43	780	-0.20	AR	ES
COMLAB	56	-0.64	13850	0.19	129	-0.37	105	0.23	89	-0.24	70	-0.39	940	0.63	6970	0.00	679	0.33	815	0.70	AR	MS
COMLAB	73	3.00	15452	2.07	124	-0.89	106	0.40	100	1.60	85	2.31	851	-1.49	7051	0.24	597	-3.00	682	-2.72	AR	ES
COMLAB	62	0.85	12300	-1.64	124	-0.89	99	-0.80	87	-0.57	68	-0.75	907	-0.16	6530	-1.29	634	-1.69	745	-1.10	AR	ES
COMLAB	53	-1.34	>10000	ald	130	-0.28	102	-0.30	88	-0.41	74	0.38	861	-1.25	6385	-1.72	656	-0.69	778	-0.25	AR	ICP
COMLAB	59	0.10	>10000	ald	129	-0.37	104	0.06	89	-0.24	71	-0.21	1029	2.74	8480	3.00	707	1.59	830	1.09	AR	ES
COMLAB	67	2.10	14268	0.68	153	2.13	112	1.43	101	1.77	83	1.95	945	0.75	6894	-0.22	679	0.33	826	0.99	AR	AAS
COMLAB	58	-0.15	13798	0.13	126	-0.68	99	-0.80	85	-0.91	68	-0.75	863	-1.20	7043	0.21	659	-0.57	814	0.68	AR	ES
COMLAB	107	3.00	11619	-2.44	151	1.92	117	2.28	105	2.44	95	3.00	929	0.37	6466	-1.48	780	3.00	831	1.12	AR	ICP
COMLAB	56	-0.74	12960	-0.86	116	-1.74	89	-2.52	76	-2.36	65	-1.34	857	-1.36	6553	-1.22	612	-2.67	690	-2.51	3A,MICR	ES
COMLAB	52	-1.54	13666	-0.03	117	-1.58	100	-0.61	86	-0.80	64	-1.42	992	1.87	7474	1.48	698	1.18	818	0.77	AR	ES
COMLAB	62	0.85	13529	-0.19	140	0.78	109	0.91	91	0.10	75	0.51	955	0.98	6909	-0.18	679	0.33	813	0.65	AR	ES
COMLAB	56	-0.64	12020	-1.97	114	-1.93	90	-2.34	81	-1.58	62	-1.83	825	-2.10	6053	-2.69	579	-3.00	652	-3.00	AR	ES
COMLAB	56	-0.64	>10000	ald	131	-0.16	112	1.43	90	-0.07	69	-0.57	879	-0.82	6690	-0.82	637	-1.56	758	-0.76	AR	ES
COMLAB	56	-0.64	13773	0.10	126	-0.68	103	-0.11	90	-0.07	73	0.15	904	-0.23	6914	-0.16	679	0.33	796	0.21	AR	ES
COMLAB	37	-3.00	10464	-3.00	82	-3.00	67	-3.00	57	-3.00	48	-3.00	422	-3.00	4038	-3.00	480	-3.00	409	-3.00	AR	AAS
COMLAB	64	1.35	13500	-0.22	142	0.98	105	0.23	99	1.44	85	2.31	860	-1.27	6700	-0.79	660	-0.52	770	-0.46	AR	ES
COMLAB	58	-0.15	13823	0.16	132	-0.06	108	0.74	90	-0.07	74	0.33	927	0.32	7588	1.81	681	0.42	829	1.06	AR	AAS
COMLAB	63	1.10	13594	-0.11	130	-0.26	114	1.77	114	3.00	79	1.23	901	-0.30	6691	-0.82	674	0.11	805	0.45	2A,MICR	ICP
COMLAB	61	0.60	13175	-0.61	148	1.61	101	-0.46	94	0.60	75	0.51	897	-0.39	6996	0.08	675	0.15	789	0.03	AR	ES
COMLAB	58	-0.05	13370	-0.38	123	-0.98	100	-0.71	87	-0.52	69	-0.53	920	0.15	7040	0.20	674	0.12	776	-0.29	AR	ICP
COMLAB	61	0.60	12100	-1.87	124	-0.89	97	-1.14	84	-1.08	69	-0.57	888	-0.61	6600	-1.09	632	-1.78	725	-1.61	AR	MS
COMLAB	75	3.00	>5000	ald	129	-0.37	98	-0.97	87	-0.57	70	-0.39	883	-0.73	>5000	ald	663	-0.39	771	-0.43	AR	ES
COMLAB	62	0.86	13495	-0.23	126	-0.66	98	-1.01	85	-0.88	68	-0.80	906	-0.19	6852	-0.35	681	0.40	771	-0.44	AR	ICP
COMLAB	58	-0.15	12958	-0.86	128	-0.47	98	-0.97	82	-1.41	66	-1.11	896	-0.42	6744	-0.66	665	-0.30	784	-0.10	AR	ES
COMLAB	61	0.60	14046	0.42	137	0.46	106	0.40	92	0.26	74	0.33	943	0.71	7055	0.25	683	0.51	813	0.65	AR	ES
COMLAB	57	-0.39	11570	-2.50	124	-0.89	102	-0.28	109	3.00	74	0.33	847	-1.58	6437	-1.56	636	-1.60	743	-1.15	3A	ICP
COMLAB	71	3.00	13737	0.06	154	2.23	108	0.74	98	1.27	79	1.23	942	0.68	7471	1.47	691	0.87	810	0.57	AR	
COMLAB	56	-0.64	14043	0.42	129	-0.37	112	1.43	85	-0.91	59	-2.37	945	0.75	7143	0.51	702	1.36	821	0.86	AR	AAS
MINELAB	55	-0.93	14910	1.44	139	0.65	103	-0.15	93	0.51	74	0.39	911	-0.07	7108	0.41	657	-0.67	765	-0.58	AR	AAS
MINELAB	33	-3.00	13317	-0.44	78	-3.00	54	-3.00	46	-3.00	38	-3.00	807	-2.53	7040	0.21	574	-3.00	717	-1.82	AR	ICP
MINELAB	57	-0.39	13736	0.05	135	0.26	104	0.06	83	-1.24	66	-1.11	883	-0.73	6719	-0.74	649	-1.02	775	-0.33	3A	AAS
MINELAB	64	1.41	12980	-0.84	148	1.58	114	1.85	105	2.51	81	1.61	935	0.52	6786	-0.54	697	1.16	792	0.10	AR	ES
MINELAB	<200	bld	13729	0.05	<200	bld	<200	bld	<200	bld	<200	bld	936	0.53	7647	1.99	656	-0.70	772	-0.40	3A	AAS
MINELAB	<100	bld	13255	-0.51	140	0.78	105	0.23	<100	bld	<100	bld	930	0.39	7025	0.16	665	-0.30	775	-0.33	AR	ES
MINELAB	58	-0.12	15111	1.67	138	0.52	96	-1.29	83	-1.31	61	-2.02	963	1.18	7709	2.17	791	3.00	843	1.43		ICP
MINELAB	59	0.06	23418	3.00	136	0.38	106	0.46	104	2.23	75	0.57	905	-0.20	7337	1.08	672	0.02	771	-0.42	AR	ES
MINELAB	60	0.35	14369	0.80	132	-0.09	111	1.23	94	0.56	72	0.05	885	-0.67	7112	0.42	653	-0.83	772	-0.41	AR	ES
MINELAB	50	-2.03	13772	0.10	119	-1.45																



Nickel (Total Digest) Round Robin - Summary Statistics, Assays, Standardised Values and Graphs - April 2022

Standard Reference	GBM322-1	GBM322-2	GBM322-3	GBM322-4	GBM322-5	GBM322-6	GBM322-7	GBM322-8	GBM322-9	GBM322-10
MEAN (ppm)	48	28	177	32	19	30	60	2136	1765	261
STDEV (ppm)	2	3	13	2	1	2	3	126	89	13
95% CI (ppm)	1	1	3	1	0	1	1	31	23	3
95% CI (%)	1.26%	2.53%	1.96%	1.69%	1.98%	2.14%	1.38%	1.47%	1.29%	1.33%
MIN (ppm)	43	22	147	27	16	25	54	1831	1520	228
MEDIAN (ppm)	48	28	178	32	19	30	60	2153	1768	261
MAX (ppm)	53	35	201	36	22	36	66	2378	1960	295
IQR (ppm)	2	3	17	3	1	3	3	184	112	16
COUNT	53	53	55	53	53	55	53	63	60	55

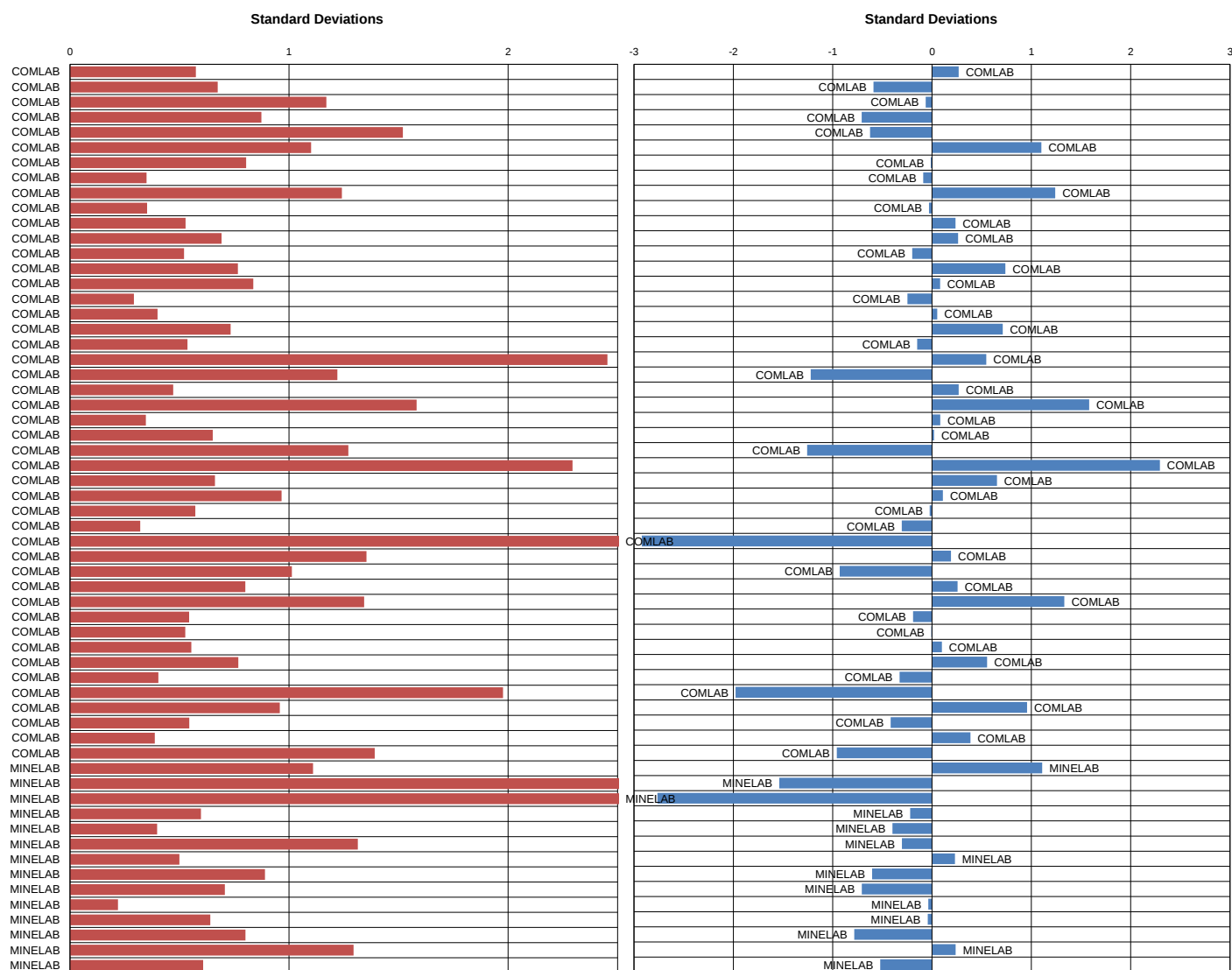
Standard Reference	GBM322-1		GBM322-2		GBM322-3		GBM322-4		GBM322-5		GBM322-6		GBM322-7		GBM322-8		GBM322-9		GBM322-10		Method	Reading
Lab Reference	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score		
IMPRC IRAN	46	-0.95	27	-0.53	173	-0.33	34	1.25	21	1.13	31	0.23	58	-0.59	2090	-0.36	1690	-0.84	239	-1.66	4A	ES
COMLAB	9	-3.00	11	-3.00	29	-3.00	15	-3.00	21	1.13	7	-3.00	235	3.00	1900	-1.87	248	-3.00	938	3.00	4A	ES
COMLAB	49	0.40	28	-0.16	171	-0.49	33	0.74	20	0.42	33	1.05	60	0.07	2110	-0.20	1720	-0.51	260	-0.05	4A	ES
COMLAB	55	3.00	27	-0.53	175	-0.18	30	-0.79	18	-1.00	28	-1.00	57	-0.92	2378	1.92	1808	0.48	264	0.26	4A	AAS
COMLAB	51	1.30	32	1.36	198	1.59	35	1.76	21	1.13	30	-0.18	63	1.06	1950	-1.48	1870	1.18	257	-0.28	4A	ICP
COMLAB	45	-1.49	31	0.87	160	-1.33	29	-1.40	18	-1.07	28	-1.08	55	-1.75	1950	-1.48	1630	-1.52	246	-1.12	4A	ICP
COMLAB	46	-0.95	25	-1.29	169	-0.64	29	-1.30	17	-1.70	28	-1.00	54	-1.91	1962	-1.38	1597	-1.89	236	-1.89	4A	ES
COMLAB	51	1.30	30	0.60	183	0.44	31	-0.28	20	0.42	32	0.64	65	1.72	2180	0.35	1775	0.11	271	0.79	4A	ES
COMLAB	47	-0.50	25	-1.29	189	0.90	31	-0.28	19	-0.29	31	0.23	58	-0.59	2230	0.75	1840	0.84	272	0.87	4A	ES
COMLAB	47	-0.50	28	-0.16	177	-0.03	31	-0.28	17	-1.70	28	-1.00	58	-0.59	2160	0.19	1835	0.79	261	0.03	4A	ES
COMLAB	47	-0.50	26	-0.91	186	0.67	30	-0.79	19	-0.29	30	-0.18	58	-0.59	2070	-0.52	1825	0.67	283	1.72	4A	ES
COMLAB	49	0.40	29	0.22	201	1.82	33	0.74	19	-0.29	33	1.05	62	0.73	2280	1.14	1890	1.40	269	0.64	4A	ICP
COMLAB	47	-0.50	28	-0.16	189	0.90	33	0.74	19	-0.29	30	-0.18	61	0.40	2290	1.22	1835	0.79	274	1.02	4A	ES
COMLAB	45	-1.40	30	0.60	200	1.74	30	-0.79	20	0.42	30	-0.18	60	0.07	2165	0.23	1810	0.50	295	2.64	4A	ES
COMLAB	47	-0.50	29	0.22	178	0.05	29	-1.30	17	-1.70	29	-0.59	58	-0.59	2190	0.43	1820	0.62	268	0.56	4A	ES
COMLAB	48	-0.05	27	-0.53	182	0.36	30	-0.79	19	-0.29	28	-1.00	57	-0.92	2160	0.19	1770	0.05	262	0.10	4A	ES
COMLAB	49	0.58	29	0.22	196	1.43	32	-0.03	19	-0.08	32	0.47	59	-0.20	2270	1.07	1855	1.01	272	0.87	4A	MS
COMLAB	51	1.34	30	0.49	191	1.03	34	1.45	21	1.05	34	1.33	66	1.98	2365	1.82	1910	1.63	281	1.55	5A	ES
COMLAB	46	-1.08	28	-0.23	154	-1.79	32	-0.03	20	0.42	30	-0.39	57	-0.79	2020	-0.92	1580	-2.08	243	-1.35	4A	ES
COMLAB	49	0.49	28	0.00	182	0.39	32	0.38	20	0.21	30	-0.06	60	0.10	2173	0.29	1727	-0.43	256	-0.34	4A	ICP
COMLAB	48	-0.05	29	0.22	180	0.20	32	0.23	21	1.13	32	0.64	61	0.40	2170	0.27	1850	0.95	274	1.02	4A	ES
COMLAB	48	-0.05	33	1.74	180	0.20	32	0.23	20	0.42	31	0.23	60	0.07	2150	0.11	1760	-0.06	265	0.33	NAA	
COMLAB	50	0.85	34	2.12	176	-0.10	34	1.25	22	1.83	34	1.46	64	1.39	2170	0.27	1760	-0.06	266	0.41	4A	ES
COMLAB	36	-3.00	20	-3.00	136	-3.00	24	-3.00	17	-1.75	25	-2.39	48	-3.00	2300	1.31	1776	0.13	210	-3.00	4A	ICP
COMLAB	39	-3.00	23	-1.87	135	-3.00	27	-2.39	20	0.16	29	-0.75	49	-3.00	2363	1.81	1842	0.86	211	-3.00	4A	ICP
COMLAB	52	1.75	32	1.36	180	0.20	35	1.76	20	0.42	34	1.46	66	2.05	2210	0.59	1770	0.05	271	0.79	4A	ES
COMLAB	46	-0.95	27	-0.53	171	-0.49	31	-0.28	19	-0.29	28	-1.00	56	-1.25	2053	-0.66	1671	-1.06	245	-1.20	4A	AAS
COMLAB	47	-0.50	26	-0.91	176	-0.10	30	-0.79	18	-1.00	28	-1.00	60	0.07	2167	0.25	1714	-0.57	252	-0.66	4A	ES
COMLAB	49	0.35	28	-0.23	185	0.59	33	0.64	20	0.63	32	0.43	61	0.37	2160	0.19	1750	-0.17	256	-0.36	4A	ES
COMLAB	47	-0.50	89	3.00	169	-0.64	55	3.00	24	3.00	48	3.00	187	3.00	2045	-0.72	1765	0.00	245	-1.20	4A	ES
COMLAB	45	-1.22	<30	bld	154	-1.82	32	0.13	<30	bld	30	-0.10	59	-0.39	1936	-1.59	1520	-2.75	236	-1.87	3A,MICR	ES
COMLAB	47	-0.50	27	-0.53	181	0.28	32	0.23	19	-0.29	30	-0.18	57	-0.92	2047	-0.70	1692	-0.82	257	-0.28	4A	MS,AAS
COMLAB	49	0.40	26	-0.91	173	-0.33	30	-0.79	18	-1.00	28	-1.00	64	1.39	2310	1.38	1897	1.48	261	0.03	4A	AAS
COMLAB	53	2.20	32	1.36	186	0.67	36	2.27	21	1.13	34	1.46	66	2.05	2245	0.87	1829	0.72	277	1.26	4A	ES
COMLAB	52	1.66	30	0.75	198	1.59	32	0.02	21	1.41	30	-0.18	62	0.73	2310	1.38	1860	1.07	271	0.79	4A	MS
COMLAB	49	0.40	29	0.22	191	1.05	32	0.23	20	0.42	31	0.23	60	0.07	2153	0.14	1753	-0.14	264	0.26	4A	ES
COMLAB	50	0.98	30	0.41	186	0.63	33	0.59	20	0.49	32	0.80	60	-0.10	2115	-0.17	1800	0.39	255	-0.45	4A	MS
COMLAB	48	-0.05	28	-0.16	189	0.90	32	0.23	20	0.42	30	-0.18	58	-0.59	2240	0.83	1770	0.05	275	1.10	4A	ES
COMLAB	48	-0.05	28	-0.16	184	0.51	31	-0.28	20	0.42	30	-0.18	59	-0.26	2066	-0.55	1741	-0.27	255	-0.43	4A	ICP
COMLAB	164	3.00	<145	bld	281	3.00	<145	bld	<145	bld	<145	bld	156	3.00	2350	1.70	1960	2.19	368	3.00	FUS	ES
COMLAB	51	1.07	30	0.60	194	1.28	34	0.99	19	-0.64	31	0.23	62	0.73	2255	0.95	1870	1.18	271	0.79	4A	ICP
COMLAB	<10	-3.00	<10	-3.00	147	-2.33	<10	-3.00	<10	-3.00	<10	-3.00	<10	-3.00	1933	-1.61	1600	-1.86	215	-3.00	FUS	ICP
COMLAB	32	-3.00	18	-3.00	133	-3.00	19	-3.00	8	-3.00	18	-3.00	42	-3.00	1740	-3.00	1429	-3.00	209	-3.00	4A	ICP
COMLAB	44	-1.71	26	-1.10	173	-0.31	31	-0.48	18	-1.00	28	-0.92	60	0.13	2075	-0.48	1782	0.19	262	0.11	4A	MS
COMLAB	46	-1.04	54	3.00	135	-3.00	54	3.00	406	3.00	51	3.00	695	3.00	200	-3.00	164	-3.00	144	-3.00	4A	AAS
COMLAB	47	-0.50	27	-0.53	175	-0.18	31	-0.28	19	-0.29	31	0.23	58	-0.59	2106	-0.24	1756	-0.10	257	-0.28	4A	ES
COMLAB	58	3.00	44	3.00	224	3.00	30	-0.79	19	-0.29	31	0.23	54	-1.91	2050	-0.68	1720	-0.51	260	-0.05	4A	ES
COMLAB	82	3.00	79	3.00	240	3.00	59	3.00	66	3.00	60	3.00	79	3.00	2272	1.08	2588	3.00	302	3.00	4A	AAS
COMLAB	52	1.75	32	1.36	181	0.28	33	0.74	22	1.83	36	2.28	64	1.39	2036	-0.79	1725	-0.45	267	0.49	4A	ES
COMLAB	46	-0.95	27	-0.53	156	-1.64	29	-1.30	21	1.16	35	1.84	60	0.03	2000	-1.08	1695	-0.79	247	-1.05	4A	AAS
COMLAB	49	0.40	27	-0.53	169	-0.64	31	-0.28	<20	bld	28	-1.00	60	0.07	2110	-0.20	1700	-0.73	260	-0.05	4A	AAS
COMLAB	49	0.50	31	0.80	168	-0.69	29	-1.13	18	-0.71	27	-1.38	61	0.23	2138	0.02	1767	0.02	269	0.66	4A	AAS
COMLAB	39	-3.00	24	-1.67	148	-2.25	25	-3.00	17	-1.70	25	-2.23	50	-3.00	2159	0.18	1764	-0.01	219	-3.00	4A	AAS
COMLAB	43	-2.30	26	-0.91	169	-0.64	29	-1.30	19	-0.29	29	-0.59	58	-0.59	2080	-0.44	1700	-0.73	252	-0.66	4A	ES
COMLAB	48	-0.05	25	-1.29	162	-1.18	31	-0.28	19	-0.29	31	0.23	57	-0.92	1901	-1.86	1624	-1.59	231	-2.27	4A	ICP
COMLAB	48	-0.21	28	-0.18	169	-0.68	32	-0.01	20	0.11	30	-0.12	59	-0.42	2058	-0.62	1708	-0.64	248	-0.94	4A	ICP
COMLAB	49	0.40																				



Nickel (Partial Digest) Round Robin - Summary Statistics, Assays, Standardised Values and Graphs - April 2022

Standard Reference	GBM322-1	GBM322-2	GBM322-3	GBM322-4	GBM322-5	GBM322-6	GBM322-7	GBM322-8	GBM322-9	GBM322-10
MEAN (ppm)	43	27	172	30	19	30	59	2123	1758	242
STDEV (ppm)	2	2	12	2	2	2	3	136	88	13
95% CI (ppm)	1	1	3	1	0	0	1	36	24	3
95% CI (%)	1.44%	1.92%	1.81%	1.78%	2.32%	1.62%	1.60%	1.68%	1.34%	1.44%
MIN (ppm)	37	24	146	26	15	26	50	1785	1525	211
MEDIAN (ppm)	43	27	173	30	19	30	59	2116	1757	243
MAX (ppm)	47	32	192	36	23	34	67	2431	1954	274
IQR (ppm)	3	3	16	3	2	2	3	181	80	14
COUNT	50	49	57	54	53	52	54	57	54	56

Standard Reference	GBM322-1		GBM322-2		GBM322-3		GBM322-4		GBM322-5		GBM322-6		GBM322-7		GBM322-8		GBM322-9		GBM322-10		Method	Reading
Lab Reference	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score		
COMLAB	45	0.91	26	-0.68	169	-0.25	33	1.28	18	-0.60	31	0.63	59	0.13	2160	0.27	1780	0.25	252	0.74	AR	ICP
COMLAB	43	0.01	25	-1.22	163	-0.76	28	-1.21	18	-0.60	27	-1.63	56	-0.73	2100	-0.17	1770	0.13	246	0.29	AR	ICP
COMLAB	51	3.00	25	-1.22	180	0.67	27	-1.70	18	-0.60	27	-1.63	55	-1.01	2292	1.24	1774	0.18	248	0.44	AR	AAS
COMLAB	41	-1.12	29	0.83	166	-0.50	29	-0.71	18	-0.85	27	-1.52	57	-0.56	2000	-0.90	1700	-0.67	228	-1.07	AR	ICP
COMLAB	39	-1.80	26	-0.68	147	-2.10	31	0.28	35	3.00	32	1.19	56	-0.73	1912	-1.55	1628	-1.49	211	-2.36	AR	ES
COMLAB	45	0.91	30	1.48	191	1.60	33	1.28	21	1.26	31	0.63	62	0.99	2240	0.86	1815	0.65	260	1.35	AR	ES
COMLAB	41	-0.90	26	-0.68	181	0.76	30	-0.21	17	-1.22	28	-1.07	60	0.42	2230	0.78	1835	0.88	257	1.12	AR	ES
COMLAB	42	-0.45	26	-0.68	173	0.09	30	-0.21	18	-0.60	30	0.06	58	-0.15	2200	0.56	1750	-0.10	250	0.59	AR	ES
COMLAB	45	0.91	30	1.48	191	1.60	34	1.77	19	0.02	33	1.76	64	1.57	2300	1.30	1835	0.88	257	1.12	AR	ICP
COMLAB	42	-0.45	26	-0.68	176	0.34	30	-0.21	20	0.64	31	0.63	58	-0.15	2120	-0.02	1725	-0.38	242	-0.01	AR	ES
COMLAB	44	0.46	27	-0.14	185	1.10	30	-0.21	18	-0.60	29	-0.50	62	0.99	2210	0.64	1795	0.42	245	0.21	AR	ES
COMLAB	43	0.01	26	-0.68	184	1.01	29	-0.71	18	-0.60	31	0.63	58	-0.15	2230	0.78	1865	1.22	257	1.12	AR	ES
COMLAB	41	-0.90	26	-0.68	175	0.25	29	-0.71	18	-0.60	29	-0.50	60	0.42	2190	0.49	1740	-0.21	248	0.44	AR	ES
COMLAB	45	0.91	27	-0.14	188	1.35	32	0.78	19	0.02	32	1.19	63	1.28	2300	1.30	1780	0.25	248	0.44	AR	ES
COMLAB	37	-2.71	30	1.48	172	0.00	32	0.78	19	0.02	28	-1.07	60	0.42	2240	0.86	1790	0.36	251	0.67	AR	ES
COMLAB	43	0.01	27	-0.14	171	-0.08	28	-1.21	19	0.02	30	0.06	59	0.13	2010	-0.83	1735	-0.27	240	-0.17	AR	AAS
COMLAB	44	0.46	26	-0.68	176	0.34	30	-0.21	18	-0.60	31	0.63	58	-0.15	2180	0.42	1795	0.42	241	-0.09	AR	ES
COMLAB	43	0.05	29	0.78	186	1.18	32	0.58	19	-0.10	30	0.06	64	1.57	2240	0.86	1815	0.65	262	1.50	AR	MS
COMLAB	44	0.46	27	-0.03	166	-0.54	30	-0.01	20	0.51	31	0.69	60	0.28	2072	-0.37	1677	-0.93	222	-1.54	AR	ES
COMLAB	57	3.00	40	3.00	157	-1.26	41	3.00	28	3.00	43	3.00	57	-0.44	1601	-3.00	1393	-3.00	218	-1.83	AR	AAS
COMLAB	41	-0.90	26	-0.68	146	-2.19	29	-0.71	18	-0.60	29	-0.50	55	-1.01	2017	-0.78	1542	-2.47	211	-2.36	AR	ES
COMLAB	44	0.37	29	1.10	182	0.85	30	-0.11	19	-0.23	31	0.40	57	-0.35	2101	-0.16	1745	-0.15	255	0.97	AR	ICP
COMLAB	44	0.46	29	0.94	189	1.43	34	1.77	21	1.26	31	0.63	67	2.43	2431	2.26	1954	2.23	274	2.41	AR	ES
COMLAB	44	0.46	29	0.94	173	0.09	30	-0.21	18	-0.60	29	-0.50	59	0.13	2138	0.11	1770	0.13	246	0.29	AR	ES
COMLAB	45	0.91	25	-1.22	161	-0.93	30	-0.21	21	1.26	32	1.19	58	-0.15	2105	-0.13	1742	-0.19	238	-0.32	AR	ICP
COMLAB	39	-1.82	26	-0.68	153	-1.64	29	-0.70	19	0.07	28	-0.97	53	-1.62	2047	-0.56	1613	-1.67	199	-3.00	3A,MICR	ES
COMLAB	50	3.00	33	3.00	190	1.53	36	2.60	23	2.23	34	2.43	71	3.00	2368	1.79	1930	1.96	260	1.38	AR	ES
COMLAB	44	0.46	34	3.00	176	0.34	32	0.78	20	0.64	30	0.06	60	0.42	2152	0.21	1755	-0.04	251	0.67	AR	ES
COMLAB	44	0.46	46	3.00	163	-0.76	31	0.28	20	0.64	29	-0.50	62	0.99	2029	-0.69	1635	-1.41	230	-0.92	AR	ES
COMLAB	45	0.82	26	-0.79	174	0.20	32	0.53	18	-0.72	31	0.69	58	-0.04	1998	-0.92	1714	-0.51	249	0.50	AR	MS
COMLAB	42	-0.45	26	-0.68	168	-0.34	30	-0.21	19	0.02	30	0.06	57	-0.44	2077	-0.34	1741	-0.20	236	-0.47	AR	ES
COMLAB	22	-3.00	12	-3.00	83	-3.00	15	-3.00	8	-3.00	15	-3.00	24	-3.00	1821	-2.21	1349	-3.00	111	-3.00	AR	AAS
COMLAB	47	1.82	35	3.00	189	1.43	26	-2.20	21	1.26	29	-0.50	55	-1.01	1990	-0.98	1660	-1.12	245	0.21	AR	ES
COMLAB	42	-0.45	28	0.40	153	-1.60	30	-0.21	19	0.02	29	-0.50	54	-1.30	1785	-2.48	1475	-3.00	240	-0.17	AR	AAS
COMLAB	47	1.82	28	0.40	168	-0.34	33	1.28	19	0.02	31	0.63	61	0.71	2010	-0.83	1623	-1.55	248	0.44	2A,MICR	ICP
COMLAB	45	0.91	30	1.48	192	1.69	34	1.77	23	2.49	33	1.76	65	1.86	2116	-0.05	1777	0.21	258	1.20	AR	ES
COMLAB	42	-0.23	24	-1.62	170	-0.14	31	0.42	18	-0.71	28	-0.82	60	0.38	2194	0.52	1797	0.44	240	-0.15	AR	ICP
COMLAB	42	-0.40	29	0.89	171	-0.08	30	-0.36	18	-0.54	29	-0.67	60	0.36	2069	-0.40	1740	-0.21	260	1.35	AR	ICP
COMLAB	46	1.37	26	-0.68	174	0.17	30	-0.21	19	0.02	30	0.06	62	0.99	>1000	aid	>1000	aid	230	-0.92	AR	MS
COMLAB	44	0.46	28	0.40	181	0.76	32	0.78	20	0.64	32	1.19	62	0.99	1990	-0.98	1880	1.39	241	-0.09	AR	ES
COMLAB	41	-0.93	26	-0.56	172	-0.04	29	-0.76	18	-0.73	29	-0.33	59	0.15	2134	0.08	1772	0.16	238	-0.30	AR	ICP
COMLAB	39	-1.80	20	-3.00	156	-1.35	28	-1.21	14	-3.00	24	-3.00	50	-2.45	1898	-1.65	1690	-0.78	222	-1.53	AR	ES
COMLAB	46	1.37	30	1.48	190	1.52	33	1.28	20	0.64	31	0.63	62	0.99	2196	0.53	1786	0.32	253	0.82	AR	ES
COMLAB	43	0.01	27	-0.14	157	-1.26	30	-0.21	20	0.64	29	-0.50	55	-1.01	2006	-0.96	1702	-0.64	240	-0.17	3A	ICP
COMLAB	45	0.91	28	0.40	176	0.34	31	0.28	21	1.26	30	0.06	60	0.42	2140	0.12	1759	0.01	243	0.06	AR	
COMLAB	38	-2.26	25	-1.22	168	-0.34	28	-1.21	16	-1.84	24	-3.00	52	-1.88	2245	0.89	1870	1.27	242	-0.01	AR	AAS
MINELAB	50	3.00	28	0.60	185	1.06	32	0.61	21	1.36	31	0.54	62	1.12	2285	1.18	1885	1.45	245	0.18	AR	ICP
MINELAB	12	-3.00	1	-3.00	148	-2.05	2	-3.00	0	-3.00	1	-3.00	27	-3.00	2396	2.00	2022	3.00	238	-0.33	AR	ICP
MINELAB	34	-3.00	20	-3.00	122	-3.00	23	-3.00	15	-2.46	23	-3.00	43	-3.00	1916	-1.52	1525	-2.67	185	-3.00	3A	ES
MINELAB	44	0.41	26	-0.92	162	-0.87	31	0.33	20	0.40	31	0.35	60	0.39	2070	-0.39	1748	-0.12	219	-1.79	AR	ES
MINELAB	<100	bld	<100	bld	165	-0.59	<100	bld	<100	bld	<100	bld	<100	bld	2105	-0.13	1730	-0.32	235	-0.54	AR	ES
MINELAB	43	-0.08	30	1.21	173	0.08	28	-1.01	17	-0.97	26	-2.31	52	-1.99	2352	1.68	1941	2.09	220	-1.72	ICP	
MINELAB	45	0.87	28	0.42	167	-0.38	30	-0.02	22	1.94	30	0.28	59	0.03	2139	0.11	1717	-0.47	236	-0.47	AR	ES
MINELAB	43	0.20	24	-1.69	170	-0.17	28	-1.23	16	-1.54	27	-1.80	55	-0.93	2189	0.48	1824	0.75	241	-0.11	AR	ES
MINELAB	40	-1.17	26	-0.45	162	-0.81	30	-0.25	17	-1.28	28	-0.93	57	-0.46	2107	-0.12	1702	-0.65	230	-0.95	AR	ES
MINELAB	43	0.04	28	0.14	173	0.08	30	0.03	19	-0.18	29	-0.58	58	-0.24	2085	-0.28	1783	0.28	247	0.35	3A	ES
MINELAB	42	-0.45	32	2.56	177	0.42	30	-0.21	18													



Arsenic (Total Digest) Round Robin - Summary Statistics, Assays, Standardised Values and Graphs - April 2022

Standard Reference	GBM322-1	GBM322-2	GBM322-3	GBM322-4	GBM322-5	GBM322-6	GBM322-7	GBM322-8	GBM322-9	GBM322-10
MEAN (ppm)	4	45	139	171	3473	241	176	735	936	759
STDEV (ppm)	1	3	7	7	84	9	10	32	42	33
95% CI (ppm)	1	1	2	2	26	3	3	9	12	9
95% CI (%)	15.43%	2.17%	1.40%	1.25%	0.76%	1.07%	1.71%	1.21%	1.26%	1.22%
MIN (ppm)	1	40	122	153	3320	219	149	667	824	685
MEDIAN (ppm)	4	45	139	170	3472	240	177	729	937	764
MAX (ppm)	7	51	156	187	3649	264	194	819	1031	830
IQR (ppm)	1	5	8	10	133	13	13	37	54	29
COUNT	24	43	48	43	40	48	46	50	50	49

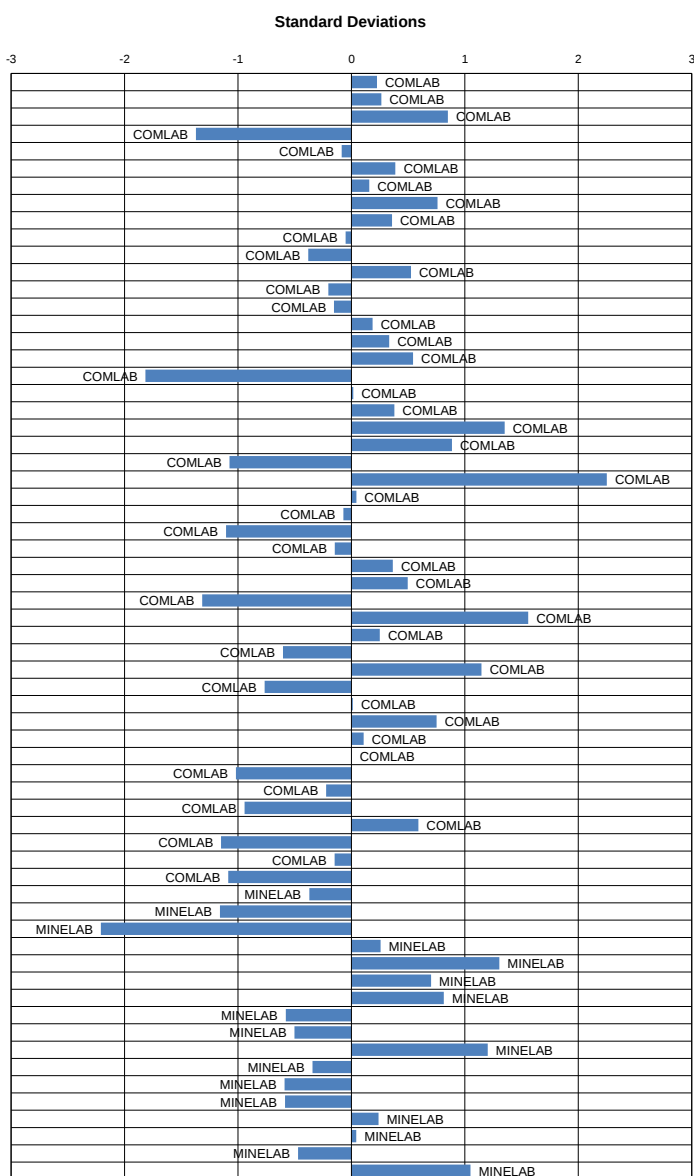
Standard Reference	GBM322-1		GBM322-2		GBM322-3		GBM322-4		GBM322-5		GBM322-6		GBM322-7		GBM322-8		GBM322-9		GBM322-10		Method	Reading
Lab Reference	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score		
IMPRC IRAN	5	0.82	44	-0.21	126	-1.85	171	0.05	3820	-3.00	232	-0.99	181	0.53	775	1.24	975	0.93	801	1.28	4A	ES
COMLAB	<0.5	bld	50	1.63	130	-1.26	162	-1.23	3020	-3.00	233	-0.88	170	-0.54	667	-2.16	857	-1.87	693	-2.00	NAA	
COMLAB	6	1.52	42	-0.84	72	-3.00	172	0.19	3320	-1.81	196	-3.00	160	-1.51	704	-0.99	917	-0.45	740	-0.57	4A	ES
COMLAB	24	3.00	47	0.72	146	1.10	172	0.19	3543	0.83	235	-0.66	178	0.24	746	0.33	931	-0.12	782	0.70	4A	AAS
COMLAB	4	0.13	49	1.35	140	0.21	187	2.32	3430	-0.51	237	-0.44	194	1.79	686	-1.56	889	-1.12	757	-0.06	4A	ICP
COMLAB	<1	bld	46	0.41	142	0.51	175	0.62	3490	0.20	243	0.22	187	1.11	754	0.58	956	0.47	787	0.86	4A	ICP
COMLAB	<5	bld	40	-1.46	135	-0.53	168	-0.38	3740	-3.00	249	0.89	169	-0.64	701	-1.09	934	-0.05	716	-1.30	4A	ES
COMLAB	<5	bld	44	-0.21	142	0.51	173	0.33	3420	-0.63	248	0.77	168	-0.73	718	-0.55	937	0.02	774	0.46	4A	ES
COMLAB	5	0.82	51	1.97	143	0.66	180	1.32	3560	1.04	253	1.33	182	0.62	753	0.55	951	0.36	788	0.89	4A	ES
COMLAB	<5	bld	46	0.41	136	-0.38	168	-0.38	3420	-0.63	236	-0.55	167	-0.83	710	-0.80	895	-0.97	728	-0.94	4A	ES
COMLAB	9	3.00	59	-3.00	145	0.95	193	-3.00	3610	1.63	258	1.88	187	1.11	720	-0.49	962	0.62	818	1.80	4A	ES
COMLAB	<5	bld	42	-0.84	142	0.51	170	-0.09	3590	1.39	245	0.44	177	0.14	761	0.80	979	1.02	770	0.34	4A	ICP
COMLAB	<5	bld	47	0.72	136	-0.38	181	1.47	3390	-0.98	245	0.44	182	0.62	764	0.90	968	0.76	769	0.31	4A	ES
COMLAB	<5	bld	40	-1.46	145	0.95	165	-0.80	3540	0.80	240	-0.11	170	-0.54	800	2.03	1010	1.76	830	2.17	4A	ES
COMLAB	<5	bld	43	-0.53	135	-0.53	163	-1.09	3340	-1.58	244	0.33	163	-1.22	727	-0.27	936	0.00	764	0.16	4A	ES
COMLAB	<5	bld	43	-0.53	138	-0.08	171	0.05	3460	-0.15	250	1.00	170	-0.54	723	-0.39	925	-0.26	755	-0.12	4A	ES
COMLAB	3	-0.56	49	1.35	146	1.03	178	0.97	3560	1.04	256	1.66	181	0.53	768	1.02	964	0.66	770	0.34	4A	MS
COMLAB	1	-1.82	15	-3.00	99	-3.00	29	-3.00	392	-3.00	237	-0.41	20	-3.00	527	-3.00	430	-3.00	337	-3.00	5A	ES
COMLAB	nr	nr	47	0.82	138	-0.10	165	-0.80	3489	0.19	235	-0.66	191	1.45	746	0.33	915	-0.50	773	0.43	4A	ES
COMLAB	4	0.20	35	-3.00	122	-2.42	126	-3.00	2281	-3.00	240	-0.08	117	-3.00	573	-3.00	745	-3.00	573	-3.00	4A	ICP
COMLAB	4	0.13	41	-1.15	136	-0.38	172	0.19	3540	0.80	234	-0.77	169	-0.64	784	1.53	992	1.33	775	0.49	4A	MS
COMLAB	3	-0.77	45	0.10	145	0.95	170	-0.09	3400	-0.86	245	0.44	177	0.14	760	0.77	945	0.21	790	0.95	NAA	
COMLAB	3	-0.56	47	0.72	139	0.07	175	0.62	3540	0.80	245	0.44	179	0.33	765	0.93	975	0.93	760	0.04	4A	MS
COMLAB	3	-0.56	45	0.10	145	0.95	174	0.47	3540	0.80	242	0.11	180	0.43	774	1.21	967	0.74	796	1.13	4A	MS
COMLAB	<25	bld	41	-1.15	142	0.51	170	-0.09	3608	1.61	233	-0.88	172	-0.35	744	0.27	934	-0.05	764	0.16	4A	AAS
COMLAB	2	-1.26	40	-1.46	133	-0.82	153	-2.51	2992	-3.00	225	-1.77	156	-1.90	739	0.11	886	-1.19	701	-1.76	4A	ES
COMLAB	3	-0.75	41	-1.28	133	-0.82	164	-0.94	3410	-0.75	237	-0.44	173	-0.25	728	-0.23	915	-0.50	754	-0.15	4A	
COMLAB	77	3.00	65	-3.00	125	-1.97	193	-3.00	3357	-1.37	163	-3.00	186	1.00	676	-1.87	1003	1.59	802	1.30	3A,MICR	ES
COMLAB	2	-1.26	43	-0.53	124	-2.15	169	-0.24	3438	-0.41	237	-0.44	174	-0.15	718	-0.55	908	-0.66	748	-0.33	4A	ICP,AAS
COMLAB	<20	bld	56	-3.00	143	0.66	185	2.03	3372	-1.20	241	0.00	149	-2.58	723	-0.39	919	-0.40	758	-0.03	4A	AAS
COMLAB	13	3.00	61	-3.00	156	2.58	198	-3.00	3649	2.09	274	-3.00	209	-3.00	810	2.35	1031	2.25	859	-3.00	4A	ES
COMLAB	4	-0.22	50	1.50	151	1.84	179	1.18	3780	-3.00	249	0.89	187	1.11	819	2.63	985	1.16	776	0.52	4A	MS
COMLAB	<10	bld	45	0.10	137	-0.23	161	-1.37	3387	-1.02	232	-0.99	178	0.24	719	-0.52	914	-0.52	756	-0.09	4A	ES
COMLAB	4	-0.15	46	0.41	144	0.76	174	0.46	3527	0.65	249	0.93	182	0.62	756	0.65	951	0.36	765	0.19	4A	MS
COMLAB	4	0.13	46	0.41	135	-0.53	164	-0.94	3410	-0.75	233	-0.88	182	0.62	749	0.43	875	-1.45	763	0.13	4A	MS
COMLAB	3	-0.56	44	-0.21	137	-0.23	168	-0.38	3382	-1.08	238	-0.33	174	-0.15	705	-0.96	913	-0.55	747	-0.36	4A	ICP
COMLAB	<250	bld	<250	bld	<250	bld	<250	bld	3560	1.04	<250	bld	<250	bld	725	-0.33	983	1.11	772	0.40	FUS	ES
COMLAB	3	-0.84	44	-0.28	139	0.07	168	-0.38	3345	-1.52	234	-0.77	167	-0.83	709	-0.83	899	-0.88	704	-1.67	4A	ICP
COMLAB	<10	bld	<10	-3.00	211	-3.00	246	-3.00	3100	-3.00	344	-3.00	211	-3.00	729	-0.20	880	-1.33	690	-2.10	FUS	ICP
COMLAB	17	3.00	31	-3.00	85	-3.00	121	-3.00	1721	-3.00	240	-0.11	59	-3.00	378	-3.00	609	-3.00	418	-3.00	4A	ICP
COMLAB	<0.5	bld	40	-1.50	139	0.12	178	1.04	3436	-0.43	230	-1.21	183	0.73	727	-0.26	936	0.00	812	1.62	4A	MS
COMLAB	<5	bld	44	-0.21	139	0.07	166	-0.66	3451	-0.26	241	0.00	169	-0.64	733	-0.08	946	0.24	779	0.61	4A	ES
COMLAB	4	0.13	46	0.41	136	-0.38	164	-0.94	3514	0.49	254	1.44	182	0.62	721	-0.46	973	0.88	783	0.74	4A	ES
COMLAB	<5	bld	49	1.35	144	0.80	179	1.04	3570	1.16	248	0.77	185	0.92	756	0.65	950	0.33	778	0.58	FUS	MS
COMLAB	<15	bld	44	-0.21	141	0.36	166	-0.66	3486	0.16	236	-0.55	178	0.24	754	0.58	966	0.71	765	0.19	4A	AAS
COMLAB	5	0.82	49	1.35	144	0.80	170	-0.09	3160	-3.00	228	-1.43	169	-0.64	727	-0.27	884	-1.23	760	0.04	4A	ES
COMLAB	6	1.52	45	0.10	144	0.80	177	0.90	3457	-0.19	254	1.44	193	1.69	737	0.05	971	0.83	757	-0.06	4A	ICP
COMLAB	4	0.18	45	-0.06	141	0.33	171	0.06	3394	-0.94	240	-0.07	171	-0.47	720	-0.49	944	0.18	737	-0.65	4A	ICP
COMLAB	<5	bld	43	-0.53	133	-0.82	161	-1.37	3131	-3.00	219	-2.43	168	-0.73	689	-1.46	876	-1.42	720	-1.18	4A	ES
COMLAB	7	2.21	50	1.66	140	0.21	180	1.32	3484	0.13	250	1.00	185	0.92	738	0.08	971	0.83	775	0.49	4A	ES
COMLAB	<5	bld	30	-3.00	126	-1.85	116	-3.00	2340	-3.00	228	-1.43	122	-3.00	694	-1.31	824	-2.66	685	-2.25	4A	
MINELAB	<5	bld	40	-1.46	132	-0.97	171	0.05	3490	0.20	240	-0.11	170	-0.54	725	-0.33	919	-0.40	744	-0.45	4A	ES
MINELAB	<2	bld	40	-1.46	128	-1.56	148	-3.00	2962	-3.00	236	-0.55	152	-2.29	712	-0.74	878	-1.38	694	-1.97	4A	ES
MINELAB	<2	bld	12	-3.00	81	-3.00	111	-3.00	2622	-3.00	163	-3.00	118	-3.00	554	-3.00	675	-3.00	566	-3.00	3A,MICR	ES
MINELAB	<100	bld	<100	bld	130	-1.26	110	-3.00	3205	-3.00	232	-0.99	168	-0.73	744	0.27	930	-0.14	778	0.58	FUS	ICP
MINELAB	6	1.52	44	-0.21	139	0.07	161	-1.37	3155	-3.00	264	2.54	191	1.5								



Arsenic (Partial Digest) Round Robin - Summary Statistics, Assays, Standardised Values and Graphs - April 2022

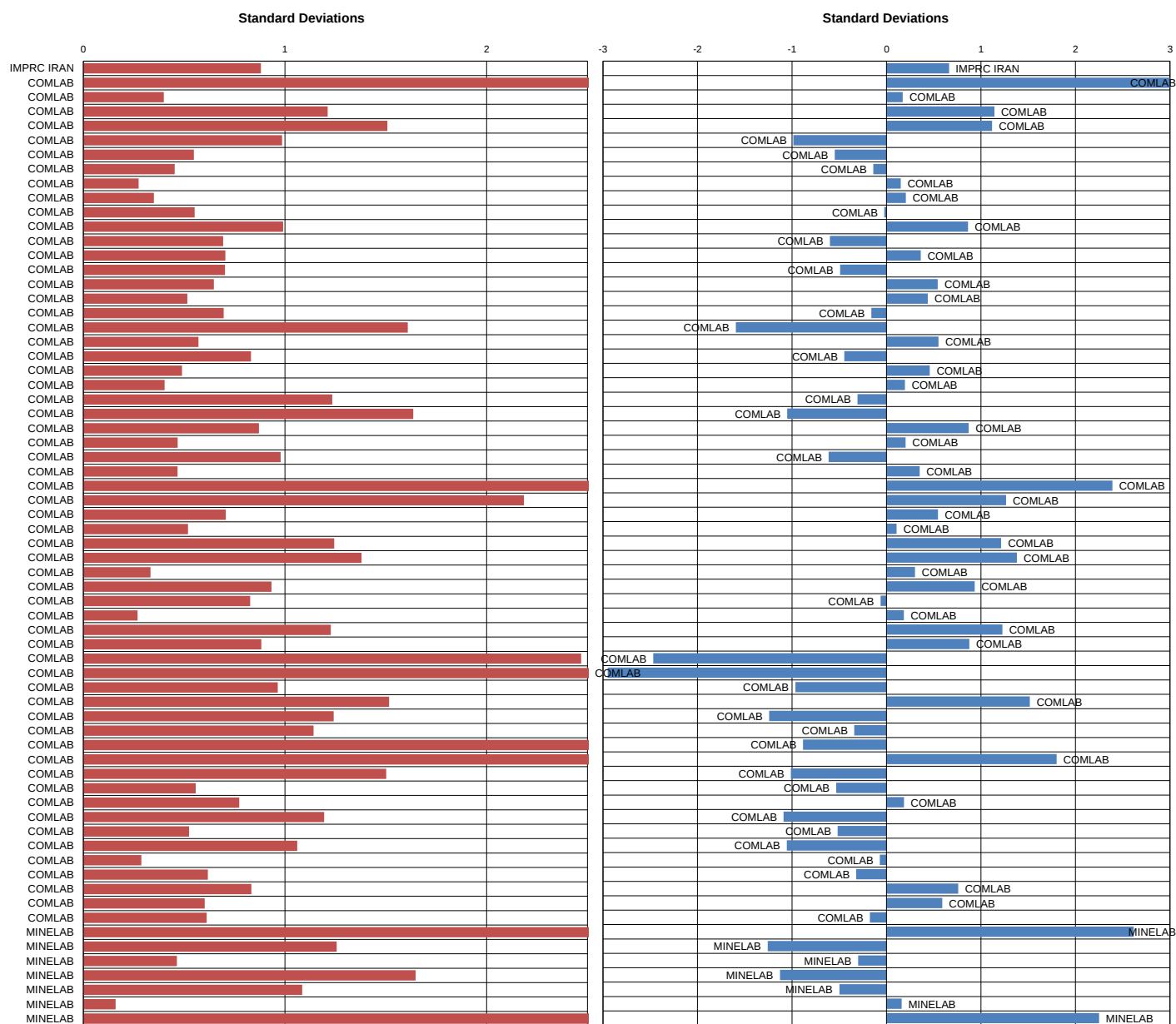
Standard Reference	GBM322-1	GBM322-2	GBM322-3	GBM322-4	GBM322-5	GBM322-6	GBM322-7	GBM322-8	GBM322-9	GBM322-10
MEAN (ppm)	3	41	129	159	3494	234	166	720	938	762
STDEV (ppm)	1	4	8	14	143	14	19	32	32	41
95% CI (ppm)	0	1	2	4	37	3	5	8	9	10
95% CI (%)	9.72%	2.41%	1.52%	2.23%	1.07%	1.45%	2.83%	1.12%	0.92%	1.37%
MIN (ppm)	2	32	111	123	3150	200	115	642	865	660
MEDIAN (ppm)	3	41	131	162	3490	236	170	722	941	759
MAX (ppm)	5	48	145	182	3877	264	215	793	1010	866
IQR (ppm)	1	5	10	21	163	16	19	43	44	45
COUNT	39	55	60	61	57	64	64	62	55	61

Standard Reference	GBM322-1		GBM322-2		GBM322-3		GBM322-4		GBM322-5		GBM322-6		GBM322-7		GBM322-8		GBM322-9		GBM322-10		Method	Reading
Lab Reference	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score		
COMLAB	4	1.27	41	-0.10	124	-0.71	168	0.65	3680	1.30	244	0.72	174	0.42	720	-0.01	915	-0.71	738	-0.58	AR	ICP
COMLAB	4	1.27	42	0.16	128	-0.19	166	0.51	3470	-0.17	230	-0.30	175	0.48	744	0.73	945	0.22	759	-0.08	AR	ICP
COMLAB	24	3.00	45	0.96	145	2.01	168	0.65	3544	0.35	232	-0.15	175	0.48	744	0.73	932	-0.18	789	0.65	AR	AAS
COMLAB	<1	bld	30	-3.00	127	-0.32	123	-2.56	3210	-1.99	217	-1.24	129	-1.94	708	-0.38	924	-0.43	743	-0.46	AR	ICP
COMLAB	<5	bld	42	0.16	126	-0.45	162	0.22	3507	0.09	242	0.58	170	0.21	695	-0.79	924	-0.43	747	-0.37	AR	ES
COMLAB	3	0.13	45	0.96	133	0.46	170	0.79	3520	0.18	242	0.58	174	0.42	729	0.27	928	-0.31	779	0.39	AR	ES
COMLAB	2	-1.00	40	-0.37	130	0.07	168	0.65	3570	0.53	241	0.50	175	0.48	723	0.08	942	0.12	783	0.51	AR	ES
COMLAB	3	0.13	43	0.43	136	0.85	177	1.30	3580	0.60	246	0.87	178	0.63	752	0.98	958	0.62	811	1.19	AR	ES
COMLAB	2	-1.00	45	0.96	133	0.46	168	0.65	3390	-0.73	246	0.87	181	0.79	751	0.95	941	0.09	784	0.53	AR	ICP
COMLAB	2	-1.00	44	0.70	131	0.20	160	0.08	3400	-0.66	234	0.00	170	0.21	721	0.02	934	-0.12	765	0.07	AR	ES
COMLAB	2	-1.00	42	0.16	125	-0.58	162	0.22	3410	-0.59	229	-0.37	168	0.11	714	-0.20	907	-0.95	737	-0.61	AR	ES
COMLAB	3	0.13	45	0.96	132	0.33	165	0.44	3490	-0.03	245	0.80	177	0.58	746	0.80	958	0.62	788	0.63	AR	ES
COMLAB	3	0.13	42	0.16	126	-0.45	159	0.01	3430	-0.45	233	-0.08	174	0.42	700	-0.63	907	-0.95	754	-0.20	AR	ES
COMLAB	2	-1.00	40	-0.37	131	0.20	162	0.22	3400	-0.66	239	0.36	175	0.48	743	0.70	894	-1.36	758	-0.10	AR	ES
COMLAB	3	0.13	41	-0.10	131	0.20	170	0.79	3480	-0.10	239	0.36	176	0.53	727	0.21	930	-0.25	766	0.09	AR	ES
COMLAB	4	1.27	42	0.16	127	-0.32	167	0.58	3450	-0.31	258	1.74	171	0.27	734	0.42	927	-0.34	756	-0.15	AR	ES
COMLAB	2	-0.55	47	1.60	136	0.78	172	0.90	3540	0.32	243	0.65	179	0.69	743	0.70	938	0.00	776	0.34	AR	MS
COMLAB	3	0.02	35	-1.63	121	-1.16	144	-1.03	2844	-3.00	211	-1.66	115	-2.66	687	-1.03	806	-3.00	629	-3.00	AR	ES
COMLAB	nr	nr	41	-0.10	132	0.33	163	0.29	3480	-0.10	229	-0.37	177	0.58	734	0.42	914	-0.74	755	-0.17	AR	ES
COMLAB	2	-0.55	48	1.87	140	1.40	176	1.20	3407	-0.61	238	0.27	174	0.41	709	-0.36	927	-0.34	782	0.48	AR	ICP
COMLAB	<2	bld	47	1.50	141	1.49	175	1.15	3542	0.33	241	0.50	191	1.32	731	0.33	1039	3.00	866	2.52	AR	ES
COMLAB	<5	bld	41	-0.15	122	-0.94	155	-0.25	3951	3.00	218	-1.20	167	0.06	821	3.00	1005	2.08	860	2.38	AR	ICP
COMLAB	39	3.00	39	-0.75	116	-1.75	143	-1.14	3506	0.08	205	-2.15	157	-0.45	652	-2.14	785	-3.00	660	-2.47	AR	ICP
COMLAB	<25	bld	77	3.00	176	3.00	201	3.00	3580	0.60	257	1.67	215	2.58	793	2.26	1010	2.22	842	1.94	AR	AAS
COMLAB	<5	bld	41	-0.10	128	-0.19	163	0.29	3355	-0.98	226	-0.59	170	0.21	728	0.24	961	0.71	795	0.80	AR	ES
COMLAB	<5	bld	39	-0.64	128	-0.19	153	-0.42	3494	0.00	239	0.36	165	-0.05	706	-0.44	941	0.09	789	0.65	AR	ICP
COMLAB	<2	bld	19	-3.00	115	-1.88	125	-2.42	3503	0.06	242	0.58	122	-2.31	681	-1.22	964	0.80	739	-0.56	AR	ICP
COMLAB	40	3.00	59	3.00	158	3.00	169	0.70	2961	-3.00	233	-0.10	167	0.06	652	-2.13	697	-3.00	601	-3.00	3A,MICR	ES
COMLAB	4	1.72	32	-2.59	141	1.46	156	-0.19	3570	0.53	223	-0.82	173	0.35	738	0.55	982	1.36	815	1.28	AR	ES
COMLAB	<40	bld	<40	bld	133	0.46	172	0.94	3530	0.25	237	0.21	182	0.84	746	0.80	943	0.16	775	0.31	AR	ES
COMLAB	2	-1.00	36	-1.44	118	-1.49	149	-0.71	3300	-1.36	215	-1.39	158	-0.42	666	-1.69	865	-2.25	704	-1.41	AR	ES
COMLAB	2	-0.89	44	0.56	140	1.40	182	1.68	3710	1.51	261	1.97	189	1.20	790	2.16	1056	3.00	900	3.00	AR	MS
COMLAB	2	-1.00	39	-0.64	137	0.98	160	0.08	3517	0.16	242	0.58	168	0.11	746	0.80	967	0.90	785	0.56	AR	ES
COMLAB	7	3.00	37	-1.17	136	0.85	134	-1.78	3410	-0.59	222	-0.88	126	-2.10	695	-0.79	916	-0.68	684	-1.90	AR	ES
COMLAB	4	1.27	46	1.23	133	0.46	176	1.22	3877	2.68	247	0.94	183	0.90	753	1.01	980	1.30	781	0.46	AR	AAS
COMLAB	3	0.13	38	-0.90	122	-0.97	151	-0.56	3431	-0.44	227	-0.51	164	-0.10	686	-1.07	869	-2.13	717	-1.09	2A,MICR	ICP
COMLAB	4	1.27	41	-0.10	131	0.20	163	0.29	3532	0.26	240	0.43	176	0.53	710	-0.32	884	-1.66	730	-0.78	AR	ES
COMLAB	3	0.60	48	1.87	138	1.06	172	0.97	3458	-0.25	249	1.12	178	0.62	740	0.63	953	0.48	779	0.42	AR	ICP
COMLAB	5	2.40	38	-0.90	137	0.98	147	-0.85	3346	-1.04	220	-1.02	167	0.06	700	-0.63	960	0.68	820	1.41	AR	ICP
COMLAB	3	0.13	41	-0.10	130	0.07	162	0.22	>2000	ald	226	-0.59	188	1.16	721	0.02	912	-0.80	758	-0.10	AR	MS
COMLAB	7	3.00	44	0.70	119	-1.36	161	0.15	2930	-3.00	203	-2.26	164	-0.10	642	-2.43	814	-3.00	685	-1.87	AR	ES
COMLAB	5	2.12	39	-0.53	130	0.11	145	-1.03	3401	-0.65	232	-0.16	159	-0.39	700	-0.63	915	-0.72	748	-0.34	AR	ICP
COMLAB	4	1.27	40	-0.37	117	-1.62	147	-0.85	3150	-2.41	221	-0.95	157	-0.47	676	-1.38	894	-1.36	709	-1.29	AR	ES
COMLAB	3	0.13	46	1.23	138	1.11	170	0.79	3493	-0.01	245	0.80	179	0.63	737	0.52	949	0.34	777	0.36	AR	ES
COMLAB	2	-1.00	5	-3.00	111	-2.40	146	-0.92	3481	-0.09	217	-1.24	153	-0.68	709	-0.35	908	-0.92	726	-0.88	AR	ICP
COMLAB	<5	bld	40	-0.37	125	-0.58	171	0.87	3603	0.76	226	-0.59	163	-0.15	707	-0.41	920	-0.55	750	-0.29	AR	
COMLAB	<1	bld	25	-3.00	120	-1.23	109	-3.00	3390	-0.73	224	-0.73	125	-2.15	712	-0.26	989	1.57	752	-0.25	AR	AAS
MINELAB	3	-0.28	35	-1.59	131	0.22	135	-1.67	3448	-0.33	239	0.34	148	-0.96	728	0.23	945	0.23	766	0.09	AR	ICP
MINELAB	2	-1.00	16	-3.00	91	-3.00	136	-1.63	3683	1.32	213	-1.54	152	-0.73	700	-0.65	911	-0.82	740	-0.53	AR	ICP
MINELAB	2	-1.00	32	-2.51	105	-3.00	140	-1.35	2943	-3.00	200	-2.48	138	-1.47	655	-2.03	789	-3.00	669	-2.26	3A	ES
MINELAB	<2	bld	46	1.23	131	0.17	159	-0.01	3746	1.76	233	-0.07	167	0.08	705	-0.48	944	0.20	738	-0.58	AR	ES
MINELAB	<100	bld	<100	bld	135	0.72	175	1.15	3685	1.34	255	1.52	180	0.74	785	2.01	1000	1.91	805	1.04	AR	ES
MINELAB	3	-0.21	41	-0.10	137	0.91	142	-1.21	3741	1.73	227	-0.52	139	-1.43	820	3.00	1046	3.00	838	1.85		ICP
MINELAB	<5	bld	43	0.45	132	0.33	171	0.90	3989	3.00	243	0.64	173	0.36	739	0.58	954	0.48	786	0.58	AR	ES
MINELAB	nr	nr	40	-0.47	127	-0.29	139	-1.43	3564	0.49	235	0.08	145	-1.08	699	-0.66	898	-1.23	737	-0.60	AR	ES
MINELAB	3	-0.17	39	-0.67	129	-0.02	116	-3.00	3336	-1.11	239	0.32	130	-1.90	746	0.78	959					



Standard Reference	GBM322-1	GBM322-2	GBM322-3	GBM322-4	GBM322-5	GBM322-6	GBM322-7	GBM322-8	GBM322-9	GBM322-10
MEAN (ppm)	14	2061	49	26	15	26	24	165	50	53
STDEV (ppm)	1	102	3	2	1	1	1	10	2	3
95% CI (ppm)	0	27	1	0	0	0	0	3	1	1
95% CI (%)	2.37%	1.29%	1.56%	1.79%	1.96%	1.48%	1.53%	1.52%	1.19%	1.58%
MIN (ppm)	11	1800	42	22	13	23	21	141	46	46
MEDIAN (ppm)	14	2067	49	26	15	26	24	165	50	53
MAX (ppm)	17	2280	54	30	18	28	27	182	55	59
IQR (ppm)	1	120	5	3	2	2	2	12	3	3
COUNT	52	57	57	53	53	53	54	57	53	55

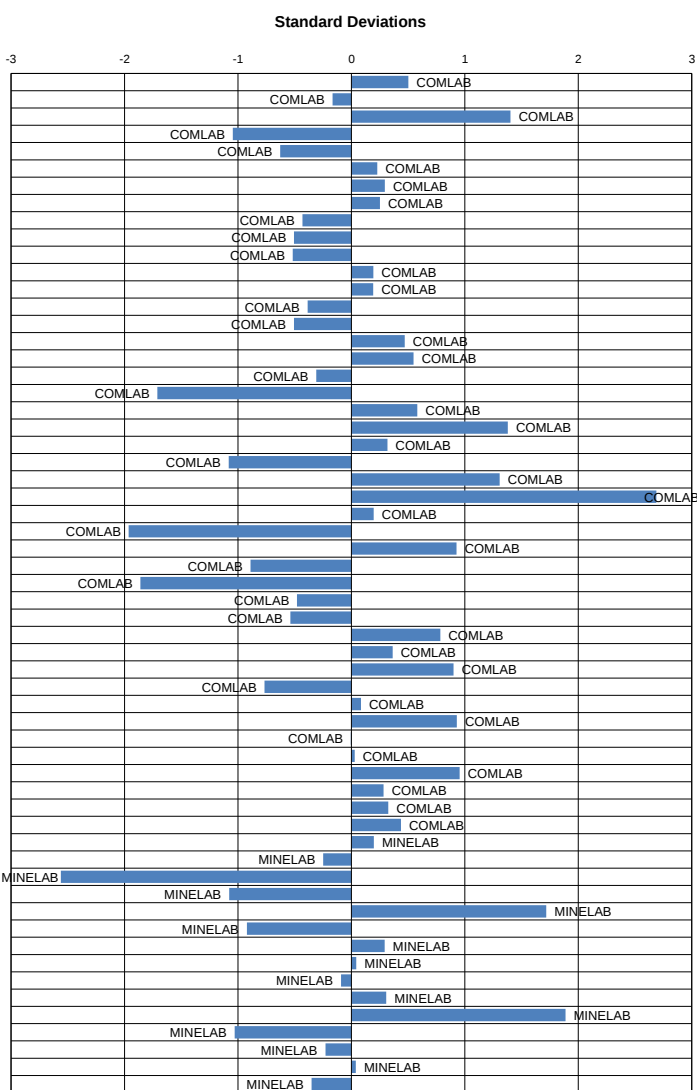
Highlighted values are outliers which are assigned a z-score of -3.00 or 3.00 in the standardised values.



Cobalt (Partial Digest) Round Robin - Summary Statistics, Assays, Standardised Values and Graphs - April 2022

Standard Reference	GBM322-1	GBM322-2	GBM322-3	GBM322-4	GBM322-5	GBM322-6	GBM322-7	GBM322-8	GBM322-9	GBM322-10
MEAN (ppm)	13	2040	47	26	15	25	24	161	46	49
STDEV (ppm)	1	127	3	1	1	1	1	8	2	3
95% CI (ppm)	0	34	1	0	0	0	0	2	0	1
95% CI (%)	2.93%	1.68%	1.68%	1.26%	1.71%	1.58%	1.68%	1.26%	0.98%	1.69%
MIN (ppm)	10	1770	40	23	13	21	21	141	43	41
MEDIAN (ppm)	13	2055	47	26	15	25	24	162	46	49
MAX (ppm)	16	2379	52	28	17	27	27	181	50	55
IQR (ppm)	1	120	4	2	1	1	2	9	2	3
COUNT	55	54	54	50	52	53	54	54	51	57

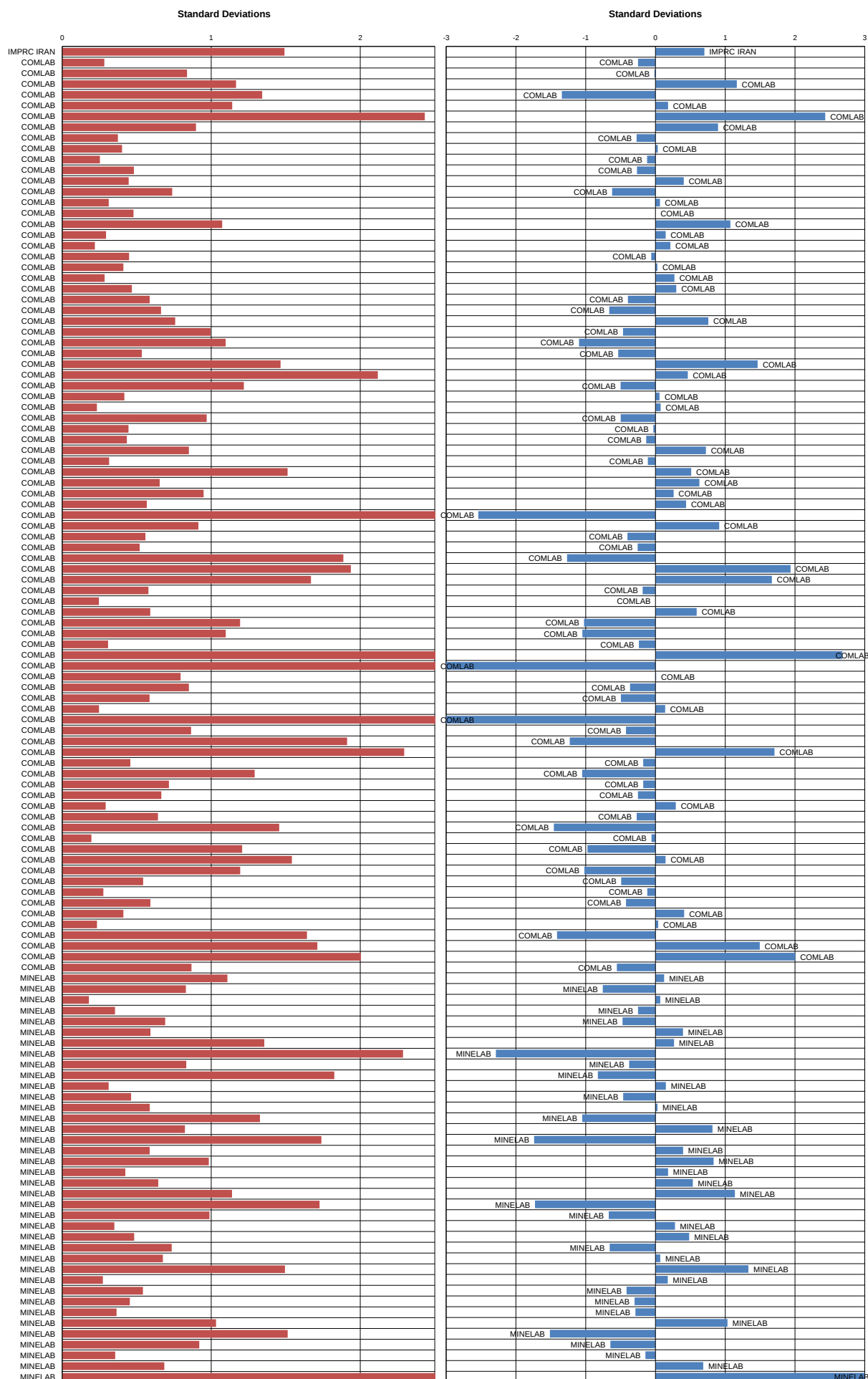
Standard Reference	GBM322-1		GBM322-2		GBM322-3		GBM322-4		GBM322-5		GBM322-6		GBM322-7		GBM322-8		GBM322-9		GBM322-10		Method	Reading
Lab Reference	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score		
COMLAB	13	0.24	2150	0.87	45	-0.68	28	1.69	16	1.19	27	1.68	23	-0.55	165	0.49	46	-0.17	50	0.27	AR	ICP
COMLAB	13	0.24	2040	0.00	45	-0.68	26	-0.01	15	0.11	25	0.28	24	0.12	157	-0.57	45	-0.78	48	-0.36	AR	ICP
COMLAB	15	1.67	2132	0.73	52	1.70	28	1.69	17	2.26	27	1.68	27	2.14	165	0.49	47	0.44	53	1.22	AR	AAS
COMLAB	11	-1.49	1950	-0.71	44	-1.12	24	-1.72	14	-0.86	22	-1.54	22	-1.16	155	-0.84	46	-0.11	46	-0.92	AR	ICP
COMLAB	13	0.24	1871	-1.33	44	-1.02	25	-0.86	15	0.11	24	-0.42	22	-1.22	152	-1.23	46	-0.17	48	-0.36	AR	ES
COMLAB	12	-0.48	2120	0.63	48	0.34	28	1.69	15	0.11	25	0.28	24	0.12	162	0.09	45	-0.78	50	0.27	AR	ES
COMLAB	11	-1.20	2040	0.00	49	0.68	27	0.84	15	0.11	25	0.28	25	0.79	162	0.09	47	0.44	52	0.90	AR	ES
COMLAB	12	-0.48	2050	0.08	48	0.34	27	0.84	15	0.11	25	0.28	24	0.12	165	0.49	46	-0.17	52	0.90	AR	ES
COMLAB	10	-1.92	2090	0.39	47	0.00	25	-0.86	13	-2.05	24	-0.42	24	0.12	166	0.62	45	-0.78	51	0.59	AR	ICP
COMLAB	12	-0.48	2030	-0.08	49	0.68	25	-0.86	14	-0.97	23	-1.12	22	-1.22	160	-0.18	45	-0.78	49	-0.04	AR	ES
COMLAB	11	-1.20	1995	-0.35	45	-0.68	25	-0.86	15	0.11	23	-1.12	24	0.12	161	-0.04	45	-0.78	48	-0.36	AR	ES
COMLAB	12	-0.48	2070	0.24	48	0.34	27	0.84	14	-0.97	25	0.28	25	0.79	165	0.49	47	0.44	49	-0.04	AR	ES
COMLAB	13	0.24	2070	0.24	49	0.68	26	-0.01	15	0.11	26	0.98	23	-0.55	167	0.75	45	-0.78	50	0.27	AR	ES
COMLAB	12	-0.48	2000	-0.31	48	0.34	25	-0.86	14	-0.97	25	0.28	23	-0.55	167	0.75	43	-2.01	49	-0.04	AR	ES
COMLAB	10	-1.92	2080	0.32	46	-0.34	26	-0.01	14	-0.97	23	-1.12	23	-0.55	164	0.35	45	-0.78	49	-0.04	AR	ES
COMLAB	12	-0.48	2040	0.00	47	0.00	27	0.84	15	0.11	27	1.68	27	2.14	166	0.62	46	-0.17	49	-0.04	AR	ES
COMLAB	12	-0.41	2140	0.79	49	0.55	26	0.33	16	1.08	26	0.63	25	0.86	172	1.35	47	0.57	48	-0.26	AR	MS
COMLAB	13	0.52	1925	-0.91	46	-0.31	26	-0.01	16	0.86	25	0.28	23	-0.35	155	-0.78	44	-1.33	46	-1.08	AR	ES
COMLAB	13	0.24	1827	-1.68	40	-2.38	24	-1.72	14	-0.97	23	-1.12	22	-1.22	136	-3.00	39	-3.00	42	-2.25	AR	ES
COMLAB	13	-0.05	>2000	aid	52	1.77	26	0.33	16	0.65	26	1.05	24	0.26	159	-0.33	47	0.63	52	0.93	AR	ICP
COMLAB	12	-0.48	>2000	aid	52	1.70	28	1.69	16	1.19	25	0.28	27	2.14	177	2.07	50	2.28	54	1.53	AR	ES
COMLAB	13	0.24	2062	0.17	48	0.34	26	-0.01	15	0.11	25	0.28	25	0.79	163	0.22	47	0.44	51	0.59	AR	ES
COMLAB	15	1.67	1850	-1.50	41	-2.04	22	-3.00	13	-2.05	22	-1.82	24	0.12	151	-1.37	46	-0.17	47	-0.67	AR	ICP
COMLAB	bld	bld	1883	-1.24	52	1.75	31	3.00	bld	bld	34	3.00	30	3.00	153	-1.09	48	1.20	52	0.83	3A,MICR	ES
COMLAB	16	2.17	2292	1.98	59	3.00	33	3.00	19	3.00	30	3.00	33	3.00	186	3.00	57	3.00	55	1.73	AR	ES
COMLAB	12	-0.48	2129	0.70	48	0.34	26	-0.01	15	0.11	25	0.28	24	0.12	165	0.49	46	-0.17	51	0.59	AR	ES
COMLAB	14	0.96	1809	-1.82	40	-2.38	22	-3.00	13	-2.05	22	-1.82	21	-1.90	141	-2.69	40	-3.00	43	-1.93	AR	ES
COMLAB	13	0.09	2079	0.31	51	1.36	28	1.44	15	-0.32	27	1.40	25	0.59	166	0.56	50	1.98	55	1.85	AR	ES
COMLAB	11	-1.20	1964	-0.60	45	-0.68	25	-0.86	14	-0.97	23	-1.12	23	-0.55	155	-0.84	44	-1.39	47	-0.67	AR	ES
COMLAB	13	0.46	115	-3.00	24	-3.00	5	-3.00	13	-2.47	7	-3.00	21	-1.58	1358	3.00	23	-3.00	10	-3.00	AR	AAS
COMLAB	12	-0.48	1790	-1.97	49	0.68	27	0.84	16	1.19	25	0.28	22	-1.22	153	-1.10	44	-1.39	44	-1.62	AR	ES
COMLAB	13	0.24	2108	0.54	43	-1.36	27	0.84	15	0.11	24	-0.42	22	-1.22	146	-2.03	44	-1.39	47	-0.67	AR	AAS
COMLAB	16	2.39	1989	-0.40	45	-0.68	26	-0.01	20	3.00	26	0.98	23	-0.55	163	0.22	49	1.67	53	1.22	2A,MICR	ICP
COMLAB	12	-0.48	2039	-0.01	47	0.00	26	-0.01	15	0.11	24	-0.42	25	0.79	172	1.41	50	2.28	49	-0.04	AR	ES
COMLAB	14	0.67	2077	0.30	52	1.55	28	1.62	15	0.47	26	0.79	26	1.54	164	0.34	48	0.81	52	0.93	AR	ICP
COMLAB	11	-1.34	2060	0.16	46	-0.48	25	-1.21	14	-0.86	23	-1.47	23	-0.75	156	-0.70	44	-1.27	50	0.27	AR	ICP
COMLAB	13	0.09	>1000	aid	48	0.48	26	-0.35	15	0.11	25	0.14	25	0.66	158	-0.44	46	-0.17	50	0.24	AR	MS
COMLAB	17	3.00	2270	1.81	49	0.68	26	-0.01	16	1.19	27	1.68	25	0.79	157	-0.57	47	0.44	50	0.27	AR	ES
COMLAB	12	-0.78	2089	0.39	48	0.31	26	-0.33	15	0.13	25	0.13	24	0.31	166	0.59	45	-0.66	49	-0.15	AR	ICP
COMLAB	13	0.24	2076	0.28	45	-0.68	26	-0.01	15	0.11	25	0.28	23	-0.55	163	0.22	47	0.44	49	-0.04	AR	ES
COMLAB	14	0.96	2109	0.54	51	1.36	28	1.69	15	0.11	26	0.98	25	0.79	170	1.15	48	1.06	52	0.90	AR	ES
COMLAB	16	2.39	1891	-1.17	45	-0.68	26	-0.01	18	3.00	25	0.28	23	-0.55	155	-0.84	46	-0.17	51	0.59	3A	ICP
COMLAB	12	-0.48	1989	-0.40	49	0.68	26	-0.01	15	0.11	26	0.98	25	0.79	163	0.22	46	-0.17	54	1.53	AR	
COMLAB	12	-0.48	2379	2.67	46	-0.34	27	0.84	16	1.19	24	-0.42	23	-0.55	181	2.60	45	-0.78	48	-0.36	AR	AAS
MINELAB	13	-0.11	2089	0.38	49	0.63	26	0.28	15	0.61	25	0.48	25	0.82	161	-0.04	45	-0.73	48	-0.34	AR	ICP
MINELAB	10	-1.82	2310	2.13	45	-0.82	53	3.00	8	-3.00	19	-3.00	19	-3.00	178	2.16	47	0.60	53	1.28	AR	ICP
MINELAB	14	0.96	1524	-3.00	35	-3.00	20	-3.00	12	-3.00	19	-3.00	18	-3.00	124	-3.00	37	-3.00	41	-2.56	3A	ES
MINELAB	14	1.10	1944	-0.75	42	-1.80	23	-2.49	14	-0.86	22	-2.10	22	-1.49	165	0.48	44	-1.21	44	-1.65	AR	ES
MINELAB	15	1.67	2045	0.04	56	3.00	31	3.00	17	2.26	27	1.68	27	2.14	165	0.49	49	1.67	53	1.22	3A	AAS
MINELAB	12	-0.62	2235	1.53	50	0.85	25	-1.29	14	-1.19	21	-2.24	21	-1.90	160	-0.12	40	-3.00	45	-1.24		ICP
MINELAB	14	0.86	2063	0.18	47	0.05	26	-0.12	16	1.34	24	-0.36	24	-0.11	165	0.55	47	0.49	49	0.06	AR	ES
MINELAB	13	0.09	2001	-0.31	47	0.01	26	-0.35	15	0.47	25	0.05	24	-0.22	155	-0.81	48	1.20	50	0.29	AR	ES
MINELAB	12	-0.31	2079	0.31	47	-0.12	26	-0.33	15	0.17	25	0.05	24	-0.01	155	-0.82	47	0.38	48	-0.25	AR	ES
MINELAB	12	-0.27	2050	0.08	49	0.74	26	0.35	15	0.60	24	-0.15	24	0.42	162	0.06	48	0.81	51	0.44	3A	ES
MINELAB	30	3.00	1770	-2.13	75	3.00	50	3.00	20	3.00	30	3.00	35	3.00	10	-3.00	70	3.00	60	3.00	AR	AAS
MINELAB	13	-0.05	1898	-1.12	45	-0.68	25	-0.86	15	-0.22	24	-0.63	23	-0.28	147	-1.89	40	-3.00	44	-1.55	AR	ES
MINELAB	13	0.24	2068	0.22	46	-0.34	25	-0.86	15	0.11	24	-0.42	23	-0.55	158	-0.44	47	0.44	47	-0.67	AR	ES
MINELAB	12	-0.41	2136	0.77	48	0.34	26	-0.01	15	0.00	25	-0.07	24	0.19	163	0.21	45	-0.72				



Ore Grade Copper Round Robin - Summary Statistics, Assays, Standardised Values and Graphs - April 2022

Standard Reference	GBM322-11	GBM322-12	GBM322-13	GBM322-14	GBM322-15	GBM322-16
MEAN (ppm)	14752	24118	13016	5782	1698	4657
STDEV (ppm)	500	942	441	169	55	208
95% CI (ppm)	93	173	82	32	11	38
95% CI (%)	0.63%	0.72%	0.63%	0.56%	0.62%	0.82%
MIN (ppm)	13400	21487	11926	5329	1561	4158
MEDIAN (ppm)	14753	24070	13025	5770	1700	4680
MAX (ppm)	15981	26662	14234	6170	1836	5151
IQR (ppm)	546	1073	555	211	57	222
COUNT	112	115	112	107	107	115

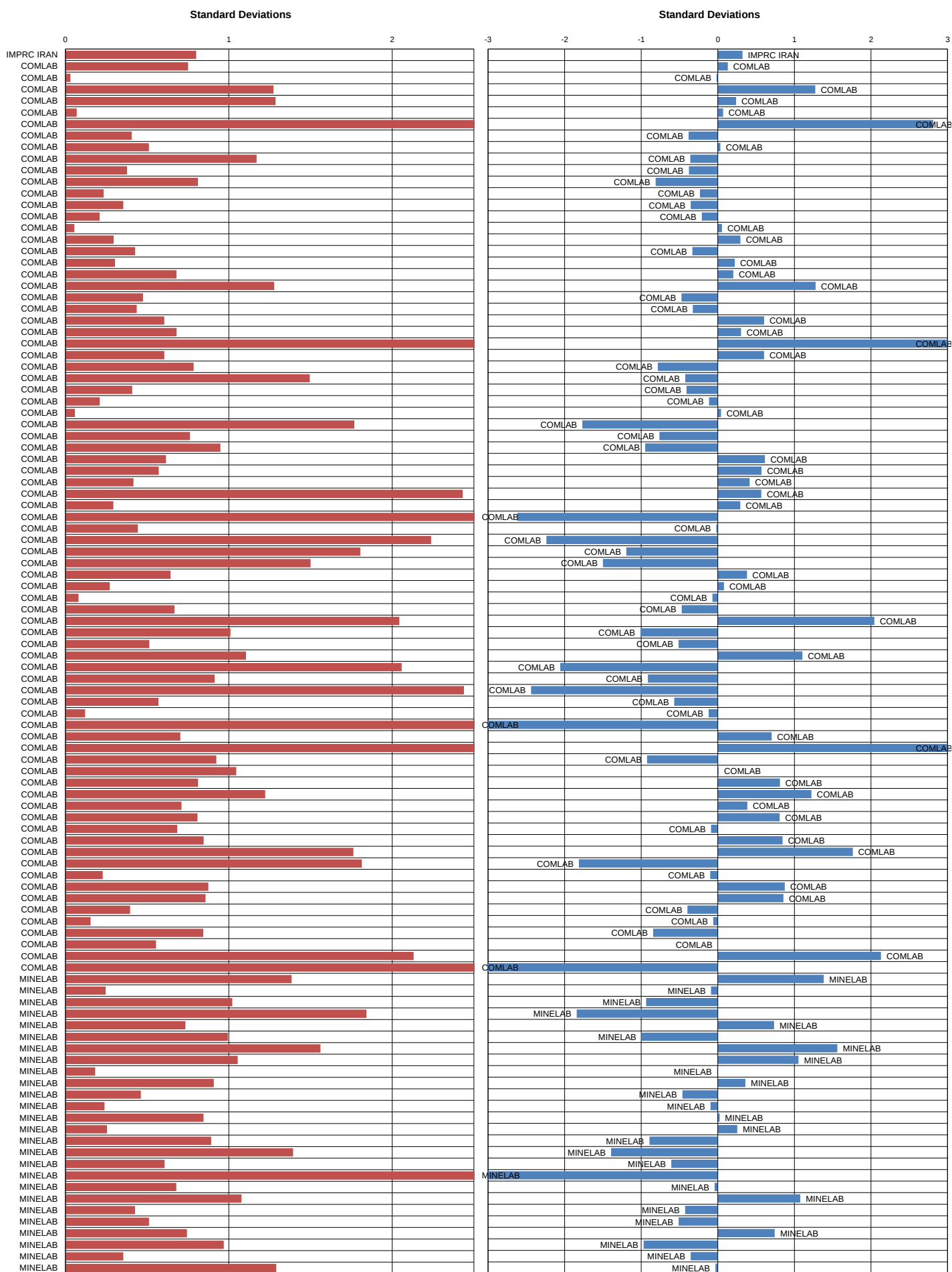
Standard Reference	GBM322-11		GBM322-12		GBM322-13		GBM322-14		GBM322-15		GBM322-16		Method	Reading
Lab Reference	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score		
IMPRC IRAN	14950	0.40	26100	2.10	14600	3.00	5680	-0.61	1600	-1.77	4881	1.08	4A	ES
COMLAB	14800	0.10	24100	-0.02	13000	-0.04	5720	-0.37	1640	-1.04	4630	-0.13	FUS	ICP
COMLAB	14400	-0.70	25500	1.47	12200	-1.85	5800	0.11	1720	0.40	4760	0.50	4A	ES
COMLAB	15322	1.14	25194	1.14	13542	1.19	5984	1.20	1798	1.81	4765	0.52	4A	AAS
COMLAB	13400	-2.71	22900	-1.29	12900	-0.26	5250	-3.00	1680	-0.32	4560	-0.47	FUS	ICP
COMLAB	14304	-0.90	23415	-0.75	12471	-1.24	6026	1.44	1836	2.49	4663	0.03	4A	AAS
COMLAB	15977	2.45	25779	1.76	13625	1.38	6535	3.00	1787	1.61	4690	0.16	3A	ES
COMLAB	15127	0.75	24976	0.91	13602	1.33	5888	0.63	1660	-0.68	4680	0.11	4A	ES
COMLAB	14850	0.20	23100	-1.08	13000	-0.04	5760	-0.13	1700	0.04	4900	1.17	FUS	XRF
COMLAB	14800	0.10	24000	-0.12	12800	-0.49	5700	-0.49	1740	-0.50	4720	0.30	FUS	ES
COMLAB	14750	0.00	23900	-0.23	12800	-0.49	5740	-0.25	1690	-0.14	4740	0.40	4A	ES
COMLAB	14400	-0.70	23500	-0.66	12850	-0.38	5840	0.34	1670	-0.50	4720	0.30	FUS	ES
COMLAB	14700	-0.10	24100	-0.02	13500	1.10	5810	0.16	1710	0.22	4880	1.07	4A	ES
COMLAB	14400	-0.70	23700	-0.44	12500	-1.17	5540	-1.43	1680	-0.32	4730	0.35	4A	ICP
COMLAB	14800	0.10	23800	-0.34	13000	-0.04	5950	0.99	1700	0.04	4580	-0.37	4A	ES
COMLAB	14500	-0.50	24700	0.62	13350	0.76	5680	-0.61	1680	-0.32	4670	0.06	4A	ES
COMLAB	15600	1.70	24800	0.72	13400	0.87	6000	1.29	1720	0.40	4960	1.46	4A	ES
COMLAB	14850	0.20	23700	-0.44	13050	0.08	5800	0.11	1720	0.40	4770	0.54	4A	ES
COMLAB	14850	0.20	24300	0.19	13150	0.30	5780	-0.01	1720	0.40	4700	0.21	AR	ES
COMLAB	14400	-0.70	23900	-0.34	13150	0.30	5700	-0.49	1710	0.22	4790	0.64	AR	ES
COMLAB	14700	-0.10	24600	0.51	13000	0.64	5790	0.05	1640	-1.04	4690	0.11	4A	ES
COMLAB	14870	0.24	24150	0.03	13000	-0.04	5920	0.82	1700	0.04	4770	0.54	4A	AAS
COMLAB	15000	0.50	24060	-0.06	12820	-0.45	6000	1.29	1720	0.40	4680	0.11	AR	AAS
COMLAB	14930	0.36	23630	-0.52	12480	-1.22	5640	-0.84	1710	0.22	4580	-0.37	4A	AAS
COMLAB	14550	-0.40	23000	-1.19	12900	-0.26	5630	-0.90	1640	-1.04	4620	-0.18	4A	ES
COMLAB	15000	0.50	24500	0.41	13200	0.42	5900	0.70	1800	1.84	4800	0.69	4A	AAS
COMLAB	14575	-0.35	23712	-0.43	12421	-1.35	5575	-1.23	1786	1.59	4445	-1.02	5A	ES
COMLAB	13700	-2.11	22014	-2.23	12423	-1.35	5760	-0.13	1668	-0.54	4610	-0.23	4A	ES
COMLAB	14430	-0.64	23300	-0.87	12560	-1.04	5770	-0.07	1670	-0.50	4640	-0.08	4A	AAS
COMLAB	15000	0.50	24900	0.83	13600	1.32	6170	2.30	1830	2.38	4960	1.46	3A	ES
COMLAB	16720	3.00	26629	2.67	13932	2.08	5520	-1.55	1604	-1.69	4300	-1.72	AR	AAS
COMLAB	14064	-1.38	20906	-3.00	13410	0.89	5719	-0.37	1768	1.27	4573	-0.40	AR	ES
COMLAB	14900	0.30	24700	0.62	12600	-0.94	5760	-0.13	1720	0.40	4680	0.11	4A	ES
COMLAB	14927	0.35	23978	-0.15	12935	-0.19	5796	0.08	1690	-0.14	4758	0.49	4A	ICP
COMLAB	14304	-0.90	23678	-0.47	13017	0.00	5501	-1.66	1622	-1.38	4950	1.41	4A	ICP
COMLAB	14700	-0.10	24000	-0.12	12600	-0.94	5740	-0.25	1750	0.94	4720	0.30	4A	ES
COMLAB	15011	0.62	24070	-0.05	13069	0.12	5827	0.27	1662	-0.65	4449	-1.00	4A	AAS
COMLAB	15973	1.64	25277	1.23	13308	0.66	5718	-0.38	1743	0.81	4733	0.37	AR	AAS
COMLAB	14828	0.15	24179	0.07	12593	-0.96	5747	-0.21	1720	0.40	4636	-0.10	AR	ES
COMLAB	15222	0.94	26092	2.10	13287	0.61	6054	1.61	1476	-3.00	4826	0.81	AR	AAS
COMLAB	14900	0.30	25600	1.57	13400	0.87	5770	-0.07	1700	0.04	4880	1.07	4A	ES
COMLAB	15233	0.96	24696	0.61	12642	-0.85	5577	-1.22	1805	1.93	4681	0.12	4A	AAS
COMLAB	14814	0.12	24268	0.16	12908	-0.25	5759	-0.14	1802	1.87	4837	0.87	3A,MICR	ES
COMLAB	12920	-3.00	21487	-2.79	11409	-3.00	4409	-3.00	1592	-1.91	4337	-1.54	3A,MICR	ES
COMLAB	15405	1.31	24849	0.78	13394	0.86	6014	1.37	1733	0.63	4768	0.53	4A	AAS
COMLAB	14512	-0.48	23407	-0.75	13123	0.24	5821	0.23	1689	-0.16	4348	-1.49	AR	ES
COMLAB	14927	0.35	24532	0.44	12917	-0.23	5640	-0.84	1667	-0.56	4511	-0.70	3A	AAS
COMLAB	13533	-2.44	22899	-1.29	11570	-3.00	5440	-2.03	1801	1.86	4511	-0.70	4A	AAS
COMLAB	15900	2.30	25500	1.47	14200	2.69	6127	2.04	1774	1.37	5021	1.75	4A	ES
COMLAB	15900	2.30	24700	0.62	13500	1.10	6350	3.00	1770	1.30	5010	1.70	MS	
COMLAB	14409	-0.69	23289	-0.88	13066	0.11	5870	0.52	1658	-0.72	4772	0.55	4A	ES
COMLAB	14600	-0.30	24200	0.09	12900	-0.26	5753	-0.17	1698	0.00	4791	0.65	4A	ES
COMLAB	15300	1.10	24900	0.83	13100	0.19	5900	0.70	1700	0.04	4800	0.69	4A	AAS
COMLAB	14096	-1.31	23120	-1.06	11040	-3.00	5768	-0.08	1726	0.51	4408	-1.20	3A	AAS
COMLAB	14172	-1.16	22941	-1.25	12604	-0.94	5559	-1.32	1600	-1.77	4688	0.15	4A	ICP
COMLAB	14583	-0.34	23871	-0.26	12882	-0.30	5689	-0.55	1688	-0.18	4701	0.21	AR	ES
COMLAB	17247	3.00	28206	3.00	14645	3.00	6424	3.00	1881	3.00	4881	1.08	4A	ICP
COMLAB	12210	-3.00	20570	-3.00	11240	-3.00	4848	-3.00	1400	-3.00	3635	-3.00	AR	ES
COMLAB	15367	1.23	24767	0.69	13233	0.49	5633	-0.88	1667	-0.56	4467	-0.91	AR	AAS
COMLAB	14800	0.10	24800	0.72	13200	0.42	5530	-1.49	1710	0.22	4210	-2.15	4A	ICP
COMLAB	14308	-0.89	24374	0.27	12412	-1.37	5739	-0.26	1665	-0.59	4629	-0.13	4A	ES
COMLAB	14997	0.49	24316	0.21	13144	0.29	5804	0.13	1680	-0.32	4665	0.04	FUS,4A	ES
COMLAB	10566	-3.00	15940	-3.00	10098	-3.00	4622	-3.00	1077	-3.00	3265	-3.00	AR	AAS
COMLAB	14200	-1.10	23400	-0.76	13000	-0.04	6000	1.29	1700	0.04	4250	-1.96	4A	ES
COMLAB	11886	-3.00	26047	2.05	11456	-3.00	5737	-0.27	1487	-3.00	4625	-0.15	AR	AAS
COMLAB	15936	2.37	26662	2.70	14234	2.76	6085	1.79	1600	-1.77	5151	2.38	4A	AAS
COMLAB	14538	-0.43	24072	-0.05	12800	-0.49	5925	0.85	1677	-0.38	4542	-0.55	2A,MICR	ICP
COMLAB	13614	-2.28	23733	-0.41	12391	-1.42	5493	-1.71	1738	0.72	4406	-1.21	4A	ES
COMLAB	15240	0.98	24274	0.17	13227	0.48	5576	-1.22	1626	-1.30	4624	-0.16	AR	ES
COMLAB	14900	0.10	23641	-0.51	12475	-1.23	5610	-1.02	1700	0.04	4887	1.11	4A	AAS
COMLAB	nr	nr	24254	1.24	13209	0.94	nr	nr	nr	nr	nr	nr	FUS	ES
COMLAB	14400	-0.70	23900	-0.23	12600	-0.94	5660	-0.72	1760	1.12	4630	-0.13	4A	AAS
COMLAB	14267	-0.97	22938	-1.25	13005	-0.03	5534	-1.47	1516	-3.00	4238	-2.02	4A	AAS
COMLAB	14624	-0.26	23934	-0.19	13012	-0.01	5732	-0.30	1721	0.42	4657	0.00	4A	AAS
COMLAB	14600	-0.30	23700	-0.44	12800	-0.49	5900	0.70	1570	-2.31	3580	-3.00	AR	MS
COMLAB	15300	1.10	26000	2.00	13600	1.32	5890	0.64	1170	-3.00	4410	-1.19	4A	ES
COMLAB	14755	0.01	22414	-1.81	12070	-2.15	5329	-2.68	1720	0.40	4682	0.12	FUS	ICP
COMLAB	14582	-0.34	23572	-0.58	12532	-1.10	5599	-1.08	1702	0.08	4672	0.07	4A	ICP,AAS
COMLAB	14676	-0.15	24161	0.05	13081	0.15	5721	-0.36	1661	-0.67	4716	0.28	FUS	ICP
COMLAB	14310	-0.88	22811	-1.39	13014	-0.01	5747	-0.21	1667	-0.56	4762	0.51	4A	ES
COMLAB	15011	0.52	24515	0.42	13087	0.16	5826	0.26	1747	0.89	4702	0.22	4A	ES
COMLAB	14802	0.10	24015	-0.11	13053	0.08	5703	-0.47	1710	0.22	4744	0.42	4A	ES
COMLAB	13441	-2.62												



Ore Grade Lead Round Robin - Summary Statistics, Assays, Standardised Values and Graphs - April 2022

Standard Reference	GBM322-11	GBM322-12	GBM322-13	GBM322-14	GBM322-15	GBM322-16
MEAN (ppm)	15	24	98	3117	1343	53
STDEV (ppm)	7	7	12	207	70	9
95% CI (ppm)	2	2	3	42	14	2
95% CI (%)	12.82%	7.41%	2.65%	1.36%	1.06%	3.98%
MIN (ppm)	4	8	68	2541	1170	34
MEDIAN (ppm)	12	23	100	3114	1340	51
MAX (ppm)	32	40	128	3680	1527	76
IQR (ppm)	8	6	12	290	80	11
COUNT	57	60	78	93	93	72

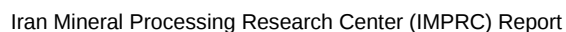
Standard Reference	GBM322-11		GBM322-12		GBM322-13		GBM322-14		GBM322-15		GBM322-16		Method	Reading
Lab Reference	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score		
IMPRC IRAN	12	-0.40	25	0.18	101	0.23	3350	1.12	1310	-0.48	50	-0.36	4A	ES
COMLAB	<100	bld	<100	bld	100	0.15	3300	0.88	1300	-0.62	<100	bld	FUS	ICP
COMLAB	<30	bld	30	0.90	100	0.15	3120	0.01	1340	-0.05	130	3.00	4A	ES
COMLAB	<100	bld	<100	bld	100	0.15	3557	2.12	1373	0.42	<100	bld	4A	AAS
COMLAB	11	-0.51	25	0.18	103	0.41	2900	-1.05	1450	1.53	52	-0.12	FUS	ICP
COMLAB	40	3.00	50	3.00	134	3.00	3129	0.06	1349	0.08	104	3.00	4A	AAS
COMLAB	10	-0.67	24	0.03	97	-0.11	3759	3.00	1527	2.63	55	0.19	4A	ES
COMLAB	<100	bld	<100	bld	<100	bld	2954	-0.79	1345	0.02	<100	bld	3A	ES
COMLAB	10	-0.67	30	0.90	100	0.15	3230	0.54	1310	-0.48	60	0.73	4A	ES
COMLAB	<100	bld	<100	bld	200	3.00	2800	-1.53	1400	0.81	100	3.00	FUS	XRF
COMLAB	<10	bld	20	-0.55	90	-0.71	3030	-0.42	1320	-0.33	50	-0.36	4A	ES
COMLAB	<50	bld	<50	bld	110	1.01	2850	-1.29	1320	-0.33	60	0.73	FUS	ES
COMLAB	40	3.00	40	2.35	110	1.01	3060	-0.28	1330	-0.19	70	1.83	4A	ES
COMLAB	<10	bld	10	-2.00	80	-1.57	3010	-0.52	1330	-0.19	40	-1.46	4A	ICP
COMLAB	20	0.70	<10	bld	80	-1.57	3070	-0.23	1330	-0.19	10	-3.00	4A	ES
COMLAB	<10	bld	50	3.00	110	1.01	3120	0.01	1350	0.10	50	-0.36	4A	ES
COMLAB	10	-0.67	20	-0.55	100	0.15	3190	0.35	1360	0.24	60	0.73	4A	ES
COMLAB	10	-0.67	20	-0.55	100	0.15	2960	-0.76	1350	0.10	40	-1.46	AR	ES
COMLAB	30	2.07	40	2.35	120	1.86	3100	-0.08	1380	0.52	60	0.73	AR	ES
COMLAB	10	-0.67	20	-0.55	100	0.15	3300	0.88	1310	-0.48	60	0.73	4A	ES
COMLAB	20	0.70	40	2.35	120	1.86	3390	1.32	1430	1.24	70	1.83	AR	AAS
COMLAB	30	2.07	30	0.90	120	1.86	2960	-0.76	1330	-0.19	60	0.73	4A	AAS
COMLAB	10	-0.67	20	-0.55	100	0.15	3140	0.11	1290	-0.76	50	-0.36	4A	ES
COMLAB	<100	bld	<100	bld	100	0.15	3200	0.40	1400	0.81	100	3.00	4A	AAS
COMLAB	<20	bld	<20	bld	114	1.35	3321	0.98	1317	-0.38	74	2.27	5A	ES
COMLAB	13	-0.26	18	-0.80	80	-1.57	3850	3.00	1560	3.00	39	-1.52	4A	ES
COMLAB	<200	bld	<200	bld	<200	bld	3200	0.40	1400	0.81	<200	bld	4A	AAS
COMLAB	10	-0.67	25	0.18	100	0.15	2950	-0.81	1290	-0.76	45	-0.91	3A	ES
COMLAB	<100	bld	<100	bld	<100	bld	3339	1.07	1209	-1.92	<100	bld	AR	AAS
COMLAB	<100	bld	<100	bld	<100	bld	3091	-0.13	1295	-0.69	<100	bld	AR	ES
COMLAB	10	-0.67	23	-0.11	97	-0.11	3050	-0.32	1350	0.10	49	-0.47	4A	MS
COMLAB	10	-0.66	24	-0.02	96	-0.17	3114	-0.02	1350	0.10	45	-0.88	4A	ICP
COMLAB	<5	bld	40	2.32	68	-2.63	2815	-1.46	1198	-2.08	49	-0.46	4A	ICP
COMLAB	10	-0.67	23	-0.11	90	-0.71	2900	-1.05	1310	-0.48	48	-0.58	4A	MS
COMLAB	14	-0.12	24	0.03	91	-0.62	nr	nr	1277	-0.95	50	-0.36	4A	AAS
COMLAB	11	-0.53	22	-0.26	98	-0.02	3317	0.96	1362	0.27	55	0.19	AR	AAS
COMLAB	28	1.80	51	3.00	128	2.55	3266	0.72	1373	0.42	63	1.06	AR	ES
COMLAB	11	-0.58	24	-0.04	98	-0.04	3270	0.74	1350	0.10	52	-0.11	4A	ES
COMLAB	31	2.21	53	3.00	135	3.00	4080	3.00	1213	-1.86	69	1.72	4A	AAS
COMLAB	259	3.00	295	3.00	369	3.00	3217	0.48	1351	0.11	243	3.00	3A,MICR	ES
COMLAB	32	2.32	33	1.32	83	-1.30	2654	-2.24	1044	-3.00	65	1.29	3A,MICR	ES
COMLAB	12	-0.40	25	0.18	94	-0.37	3205	0.42	1311	-0.46	53	-0.03	4A	AAS,MS
COMLAB	800	3.00	1391	3.00	845	3.00	2811	-1.48	1084	-3.00	269	3.00	AR	ES
COMLAB	<20	bld	<20	bld	90	-0.71	16	-3.00	1386	0.61	53	-0.03	4A	AAS
COMLAB	47	3.00	54	3.00	189	3.00	351	-3.00	1343	0.00	130	3.00	4A	AAS
COMLAB	<50	bld	<50	bld	118	1.69	3063	-0.26	1415	1.02	65	1.28	4A	ES
COMLAB	12	-0.40	22	-0.26	94	-0.37	3190	0.35	1330	-0.19	56	0.30	MS	
COMLAB	<50	bld	<50	bld	91	-0.62	3086	-0.15	1344	0.01	54	0.08	4A	ES
COMLAB	<50	bld	<50	bld	108	0.83	2881	-1.14	1357	0.20	66	1.39	4A	ES
COMLAB	<100	bld	100	3.00	200	3.00	3500	1.85	1500	2.24	100	3.00	4A	AAS
COMLAB	11	-0.53	23	-0.11	101	0.23	2729	-1.87	1333	-0.15	51	-0.25	4A	ICP
COMLAB	<40	bld	<40	bld	93	-0.45	2935	-0.88	1333	-0.15	45	-0.91	AR	ES
COMLAB	12	-0.35	25	0.24	99	0.09	3277	0.77	1444	1.44	53	0.02	4A	ICP
COMLAB	10	-0.67	20	-0.55	87	-0.97	2886	-1.12	1130	-3.00	34	-2.12	AR	ES
COMLAB	<10	bld	<10	bld	<10	-3.00	2867	-1.21	1300	-0.62	<10	-3.00	AR	AAS
COMLAB	26	1.56	50	3.00	104	0.49	2620	-2.40	1170	-2.48	44	-1.02	4A	ICP
COMLAB	<20	bld	31	1.04	108	0.83	3069	-0.23	1280	-0.91	51	-0.25	4A	ES
COMLAB	<100	bld	<100	bld	<100	bld	3098	-0.09	1333	-0.15	<100	bld	FUS,4A	ES
COMLAB	4	-1.54	9	-2.21	41	-3.00	2283	-3.00	761	-3.00	22	-3.00	AR	AAS
COMLAB	27	1.66	26	0.32	82	-1.40	3300	0.88	1380	0.52	47	-0.69	4A	ES
COMLAB	71	3.00	8	-2.33	139	3.00	4475	3.00	1948	3.00	142	3.00	AR	AAS
COMLAB	13	-0.26	26	0.32	82	-1.40	3008	-0.53	1251	-1.32	49	-0.47	4A	AAS
COMLAB	9	-0.81	16	-1.13	102	0.32	3336	1.06	1271	-1.03	46	-0.80	2A,MICR	ICP
COMLAB	17	0.29	25	0.18	94	-0.37	3259	0.68	1409	0.94	51	-0.25	4A	ES
COMLAB	11	-0.51	21	-0.40	101	0.27	3130	0.06	1510	2.38	46	-0.80	4A	AAS
COMLAB	78	3.00	<50	bld	138	3.00	3050	-0.32	1420	1.10	116	3.00	4A	AAS
COMLAB	27	1.65	31	1.03	150	3.00	3319	0.98	1388	0.64	60	0.68	4A	AAS
COMLAB	18	0.43	26	0.32	124	2.21	2957	-0.77	1385	0.60	69	1.72	4A	AAS
COMLAB	9	-0.81	20	-0.55	96	-0.20	3300	0.88	1400	0.81	50	-0.36	AR	MS
COMLAB	<50	bld	<50	bld	100	0.15	3680	2.72	1400	0.81	50	-0.36	4A	ES
COMLAB	<20	bld	32	1.19	117	1.61	2987	-0.63	1104	-3.00	53	-0.03	FUS	ICP
COMLAB	18	0.45	49	3.00	176	3.00	3049	-0.33	1352	0.13	60	0.78	4A	ICP,AAS
COMLAB	<100	bld	<100	bld	109	0.92	3377	1.25	1378	0.50	<100	bld	FUS	ICP
COMLAB	10	-0.67	47	3.00	105	0.58	3349	1.12	1385	0.60	56	0.30	4A	ES
COMLAB	<100	bld	<100	bld	103	0.41	3046	-0.34	1312	-0.45	<100	bld	4A	ES
COMLAB	12	-0.40	24	0.03	96	-0.20	3073	-0.21	1350	0.10	50	-0.36	4A	ES
COMLAB	12	-0.40	23	-0.11	98	-0.02	2970	-0.71	1275	-0.98	59	0.62	3A	ICP
COMLAB	9	-0.81	25	0.18	95	-0.28	3002	-0.56	1382	0.55	50	-0.36	4A	ICP
COMLAB	12	-0.40	19	-0.69	92	-0.54	3551	2.09	1495	2.17	50	-0.36	AR	AAS
COMLAB	71	3.00	74	3.00	89	-0.80	1346	-3.00	659	-3.00	167	3.00	AR	AAS
MINELAB	12	-0.34	22	-0.29	73	-2.18	3461	1.66	1421	1.11	35	-2.03	AR	AAS
MINELAB	30	2.07	20	-0.55	90	-0.71	3150	0.16	1320	-0.33	50	-0.36	4A	ES
MINELAB	10	-0.67	10	-2.00	10	-3.00	3135	0.08	1206	-1.96	10	-3.00	AR	ICP
MINELAB	nr	nr	70	3.00	nr	nr	2541	-2.78	1280	-0.91	nr	nr	FUS	XRF
MINELAB	<50	bld	<50	bld	110	1.01	3307	0.92	1382	0.55	75	2.38	3A	AAS
MINELAB	8	-0.95	18	-0.91	83	-1.28	2950	-0.81	1261	-1.18	39	-1.58	AR	ES
MINELAB	200	3.00	<100	bld	100	0.15	3300	0.88	1500	2.24	100	3.00	4A	AAS
MINELAB	66	3.00	68	3.00	60	-3.00	3241	0.60	1449	1.51	224	3.00	ICP	
MINELAB	<200	bld	<200	bld	<200	bld	3153	0.17	1330	-0.19	<200	bld	3A	AAS
MINELAB	<100	bld	<100	bld	105	0.58	3380</							



Ore Grade Zinc Round Robin - Summary Statistics, Assays, Standardised Values and Graphs - April 2022

Standard Reference	GBM322-11	GBM322-12	GBM322-13	GBM322-14	GBM322-15	GBM322-16
MEAN (ppm)	13941	413	613	9864	8817	1268
STDEV (ppm)	828	25	41	437	314	86
95% CI (ppm)	165	5	8	86	63	17
95% CI (%)	1.18%	1.26%	1.35%	0.87%	0.72%	1.35%
MIN (ppm)	12323	349	501	8680	8076	1055
MEDIAN (ppm)	13784	413	610	9875	8823	1269
MAX (ppm)	15966	482	709	11000	9663	1480
IQR (ppm)	1243	22	44	475	370	96
COUNT	98	92	95	100	96	98

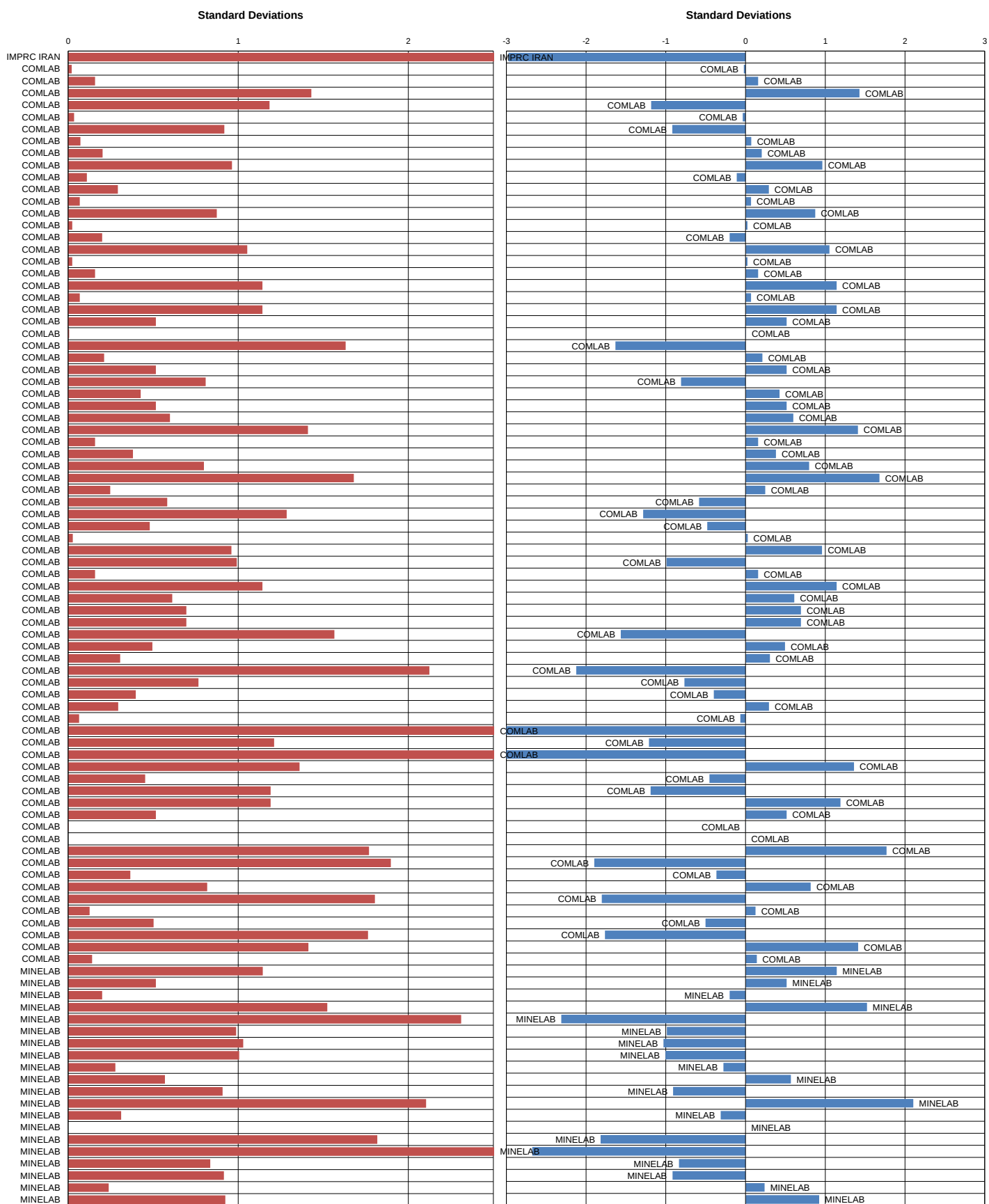
Standard Reference	GBM322-11		GBM322-12		GBM322-13		GBM322-14		GBM322-15		GBM322-16		Method	Reading
Lab Reference	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score		
IMPRC IRAN	13000	-1.14	450	1.45	580	-0.80	10050	0.43	9100	0.90	1190	-0.90	4A	ES
COMLAB	13200	-0.89	400	-0.52	600	-0.31	9600	-0.60	8700	-0.37	1200	-0.79	FUS	ICP
COMLAB	13200	-0.89	420	-0.27	580	-0.80	9910	0.10	8790	-0.09	1190	-0.90	4A	ES
COMLAB	14672	0.88	472	2.32	709	2.36	9680	-0.42	8936	0.38	1285	0.20	4A	AAS
COMLAB	14100	0.19	446	1.29	676	1.55	9400	-1.06	9760	3.00	1340	0.84	FUS	ICP
COMLAB	15199	1.52	461	1.89	650	0.91	10750	2.03	9058	0.77	1411	1.67	4A	AAS
COMLAB	15255	1.59	476	2.48	658	1.11	10687	1.88	10093	3.00	1423	1.81	4A	ES
COMLAB	13027	-1.10	335	-3.00	556	-1.39	9553	-0.71	8672	-0.46	1145	-1.43	3A	ES
COMLAB	15550	1.94	400	-0.52	620	0.18	10250	0.88	8950	0.42	1300	0.38	4A	ES
COMLAB	12600	-1.62	400	-0.52	600	-0.31	9600	-0.60	8900	0.27	1300	0.38	FUS	XRF
COMLAB	14350	0.49	410	-0.13	590	-0.56	10200	0.77	9000	0.58	1390	1.42	4A	ES
COMLAB	14600	0.80	410	-0.13	630	0.42	10600	1.68	8820	0.01	1330	0.73	FUS	ES
COMLAB	12650	-1.56	420	0.27	640	0.67	9970	0.24	9000	0.58	1320	0.61	4A	ES
COMLAB	13100	-1.01	420	0.27	660	1.16	9570	-0.67	9000	0.58	1360	1.07	4A	ICP
COMLAB	16450	3.00	420	0.27	620	0.18	10100	0.54	8820	0.01	1250	-0.21	4A	ES
COMLAB	13400	-0.65	390	-0.92	620	0.18	9840	-0.06	8980	0.52	1280	0.14	4A	ES
COMLAB	14600	0.80	nr	nr	nr	nr	9900	0.08	8960	0.46	1360	1.07	4A	ES
COMLAB	14800	1.04	440	1.06	620	0.18	9720	-0.33	8850	0.11	1270	0.03	4A	ES
COMLAB	14650	0.86	420	0.27	610	-0.07	9770	-0.22	9000	0.58	1270	0.03	AR	ES
COMLAB	13800	-0.17	410	-0.13	620	0.18	9870	0.01	9030	0.68	1290	0.26	AR	ES
COMLAB	14850	1.10	430	0.66	640	0.67	9910	0.10	8810	-0.02	1270	0.03	4A	ES
COMLAB	13400	-0.65	420	0.27	670	1.40	9820	-0.10	8650	-0.53	1290	0.26	4A	AAS
COMLAB	14800	1.04	410	-0.13	590	-0.56	9950	0.20	8940	0.39	1280	0.14	AR	AAS
COMLAB	14150	0.25	400	-0.52	590	-0.56	9710	-0.35	8800	-0.05	1310	0.49	4A	AAS
COMLAB	14650	0.86	400	-0.52	620	0.18	9620	-0.56	8590	-0.72	1270	0.03	4A	ES
COMLAB	13500	-0.53	400	-0.52	700	2.14	9700	-0.38	8500	-1.01	1300	0.38	4A	AAS
COMLAB	13785	-0.19	392	-0.84	600	-0.31	10158	0.67	8927	0.35	1473	2.39	5A	ES
COMLAB	13293	-0.78	402	-0.44	537	-1.86	9890	0.06	8310	-1.61	1140	-1.48	4A	ES
COMLAB	14700	0.92	400	-0.52	600	-0.31	9300	-1.29	9100	0.90	1300	0.38	4A	AAS
COMLAB	14300	0.43	369	-1.75	579	-0.83	9790	-0.17	8900	0.27	1100	-1.95	3A	ES
COMLAB	21271	3.00	400	-0.52	617	0.11	10130	0.61	8605	-0.67	1213	-0.64	AR	AAS
COMLAB	13763	-0.21	362	-2.03	608	-0.12	10055	0.44	9663	2.69	1268	0.00	AR	ES
COMLAB	13600	-0.41	400	-0.52	630	0.42	10400	1.23	8880	0.20	1250	-0.21	NAA	
COMLAB	13900	-0.05	410	-0.13	570	-1.05	9330	-1.22	8350	-1.49	1230	-0.44	4A	ES
COMLAB	14987	1.26	384	-1.14	558	-1.33	10500	1.46	9567	2.39	1444	2.05	4A	ICP
COMLAB	13222	-0.87	476	2.47	459	-3.00	9879	0.03	8767	-0.16	1480	2.47	4A	ICP
COMLAB	13700	-0.29	418	0.19	572	-1.00	9260	-1.38	8330	-1.55	1240	-0.32	4A	ES
COMLAB	13660	-0.34	394	-0.76	586	-0.65	nr	nr	nr	nr	1181	-1.01	4A	AAS
COMLAB	13497	-0.54	416	0.11	631	0.45	9401	-1.06	8638	-0.57	1246	-0.25	AR	AAS
COMLAB	14842	1.09	412	-0.05	596	-0.41	9976	0.26	9182	1.16	1173	-1.10	AR	ES
COMLAB	14300	0.43	422	0.35	610	-0.07	9930	0.15	8980	0.52	1410	1.66	4A	
COMLAB	15312	1.66	512	3.00	737	3.00	8680	-2.71	8120	-2.22	1275	0.09	4A	AAS
COMLAB	11127	-3.00	552	3.00	1002	3.00	9833	-0.07	8193	-1.99	1284	0.19	3A,MICR	ES
COMLAB	14756	0.98	372	-1.65	636	0.56	8994	-1.99	8076	-2.36	1132	-1.58	3A,MICR	ES
COMLAB	13530	-0.50	389	-0.96	592	-0.51	9783	-0.19	8658	-0.51	1254	-0.16	4A	AAS
COMLAB	12830	-1.34	397	-0.66	616	0.09	9951	0.20	8964	0.47	1199	-0.79	AR	ES
COMLAB	14146	0.25	414	0.03	599	-0.34	10089	0.51	9214	1.27	1247	-0.24	4A	AAS
COMLAB	12495	-1.75	383	-1.19	578	-0.86	11905	3.00	11856	3.00	1131	-1.59	4A	AAS
COMLAB	15000	1.28	471	2.28	686	1.80	11000	2.60	9402	1.86	1407	1.62	4A	ES
COMLAB	13900	-0.05	380	-1.31	640	0.67	10300	1.00	8940	0.39	1320	0.61	MS	
COMLAB	13504	-0.53	422	0.35	633	0.50	9807	-0.13	8946	0.41	1352	0.98	4A	ES
COMLAB	12900	-1.26	436	0.90	648	0.86	9930	0.15	9064	0.79	1381	1.32	4A	ES
COMLAB	15200	1.52	500	3.00	700	2.14	10300	1.00	9400	1.86	1300	0.38	4A	AAS
COMLAB	12743	-1.45	396	-0.68	578	-0.85	10013	0.34	8366	-1.44	1202	-0.76	4A	ICP
COMLAB	12656	-1.55	425	0.46	612	-0.02	9532	-0.76	8661	-0.50	1306	0.45	AR	ES
COMLAB	15966	2.44	441	1.10	615	0.06	9735	-0.30	8710	-0.34	1197	-0.82	4A	ICP
COMLAB	12550	-1.68	378	-1.39	524	-2.17	9190	-1.54	8175	-2.04	970	-3.00	AR	ES
COMLAB	12667	-1.54	393	-0.80	583	-0.73	8800	-2.43	8200	-1.96	1200	-0.79	AR	AAS
COMLAB	13200	-0.89	389	-0.96	478	-3.00	7510	-3.00	7800	-3.00	899	-3.00	4A	ICP
COMLAB	13466	-0.57	425	0.46	651	0.94	9903	0.09	8895	0.25	1289	0.25	4A	ES
COMLAB	14220	0.34	418	0.19	616	0.08	9897	0.08	9068	0.80	1264	-0.04	FUS,4A	ES
COMLAB	6777	-3.00	416	0.12	443	-3.00	6795	-3.00	4719	-3.00	805	-3.00	AR	AAS
COMLAB	15400	1.76	500	3.00	700	2.14	10700	1.91	10400	3.00	1600	3.00	4A	ES
COMLAB	14346	0.49	474	2.40	668	1.35	11825	3.00	10104	3.00	1213	-0.64	AR	AAS
COMLAB	13697	-0.29	414	0.03	617	0.11	9451	-0.95	8841	0.08	1199	-0.80	4A	AAS
COMLAB	12523	-1.71	416	0.11	608	-0.12	9397	-1.07	8416	-1.28	1284	0.19	2A,MICR	ICP
COMLAB	15061	1.35	490	3.00	665	1.28	10093	0.52	9339	1.66	1233	-0.40	4A	ES
COMLAB	13260	-0.82	371	-1.67	580	-0.80	9850	-0.03	9100	0.90	1390	1.42	4A	AAS
COMLAB	14400	0.55	398	-0.60	612	-0.02	9100	-1.75	8380	-1.39	1260	-0.09	4A	AAS
COMLAB	13306	-0.77	413	0.01	597	-0.39	10035	0.39	8545	-0.86	1252	-0.18	4A	AAS
COMLAB	13526	-0.50	417	0.15	632	0.47	9750	-0.26	8754	-0.20	1273	0.06	4A	AAS
COMLAB	>2500	ald	376	-1.47	519	-2.30	9400	-1.06	8500	-1.01	1150	-1.37	AR	MS
COMLAB	13500	-0.53	70	-3.00	265	-3.00	10000	0.31	9020	0.65	950	-3.00	4A	ES
COMLAB	13525	-0.50	388	-1.00	540	-1.78	9934	0.16	8903	0.27	1265	-0.03	FUS	ICP
COMLAB	15074	1.37	455	1.63	643	0.73	9969	0.24	8749	-0.22	1307	0.46	4A	ICP,AAS
COMLAB	13356	-0.71	416	0.11	657	1.09	10223	0.82	8802	-0.05	1299	0.36	FUS	ICP
COMLAB	13742	-0.24	410	-0.13	584	-0.70	9373	-1.12	8452	-1.16	1191	-0.89	4A	ES
COMLAB	13783	-0.19	414	0.03	598	-0.36	9367	-1.14	8661	-0.50	1255	-0.15	4A	ES
COMLAB	13359	-0.70	413	-0.01	604	-0.21	9695	-0.39	8880	0.20	1227	-0.47	4A	ES
COMLAB	12465	-1.78	412	-0.05	553	-1.46	9565	-0.68	8514	-0.96	1120	-1.72	3A	ICP
COMLAB	14753	0.98	433	0.78	598	-0.36	10635	1.76	9263	1.42	1292	0.28	4A	ICP
COMLAB	14451	0.62	390	-0.92	626	0.33	10078	0.49	9040	0.71	1405	1.60	AR	AAS
COMLAB	13322	-0.75	494	3.00	691	1.92	8909	-2.19	7649	-3.00	1194	-0.86	AR	AAS
MINELAB	12323	-1.95	400	-0.52	600	-0.32	10747	2.02	9118	0.96	1142	-1.46	AR	AAS
MINELAB	13800	-0.17	430	0.66	610	-0.07	9740	-0.28	8710	-				



Ore Grade Nickel Round Robin - Summary Statistics, Assays, Standardised Values and Graphs - April 2022

Standard Reference	GBM322-11	GBM322-12	GBM322-13	GBM322-14	GBM322-15	GBM322-16
MEAN (ppm)	29	77	210	38	223	19123
STDEV (ppm)	4	7	20	10	16	1117
95% CI (ppm)	1	2	4	2	3	233
95% CI (%)	3.39%	2.03%	2.13%	5.87%	1.49%	1.22%
MIN (ppm)	18	60	157	14	179	16134
MEDIAN (ppm)	30	78	210	40	223	19264
MAX (ppm)	40	94	260	66	260	21475
IQR (ppm)	4	9	25	14	16	1335
COUNT	70	79	79	81	87	89

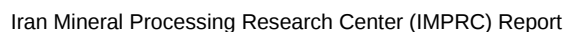
Standard Reference	GBM322-11		GBM322-12		GBM322-13		GBM322-14		GBM322-15		GBM322-16		Method	Reading
Lab Reference	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score		
IMPRC IRAN	28	-0.32	75	-0.23	194	-0.80	36	-0.22	215	-0.52	15800	-2.97	4A	ES
COMLAB	<50	bld	80	0.49	310	3.00	70	3.00	230	0.44	19100	-0.02	FUS	ICP
COMLAB	50	3.00	80	0.49	310	3.00	40	0.17	240	1.07	19300	0.16	4A	ES
COMLAB	<100	bld	<100	bld	223	0.64	<100	bld	235	0.76	20721	1.43	4A	AAS
COMLAB	50	3.00	115	3.00	320	3.00	66	2.71	237	0.88	17800	-1.18	FUS	ICP
COMLAB	37	1.82	81	0.63	nr	nr	62	2.31	236	0.82	19084	-0.04	4A	AAS
COMLAB	30	0.16	87	1.49	212	0.10	39	0.07	237	0.88	18097	-0.92	4A	ES
COMLAB	26	-0.79	74	-0.37	205	-0.25	28	-1.00	226	0.18	19204	0.07	3A	ES
COMLAB	30	0.16	80	0.49	220	0.49	40	0.17	240	1.07	19350	0.20	4A	ES
COMLAB	<100	bld	900	3.00	200	-0.50	<100	bld	100	-3.00	20200	0.96	FUS	XRF
COMLAB	20	-2.21	80	0.49	590	3.00	40	0.17	230	0.44	19000	-0.11	4A	ES
COMLAB	30	0.16	70	-0.94	190	-1.00	30	-0.81	220	-0.20	19450	0.29	FUS	ES
COMLAB	40	2.53	80	0.49	220	0.49	50	1.14	230	0.44	19200	0.07	4A	ES
COMLAB	30	0.16	80	0.49	210	0.00	40	0.17	230	0.44	20100	0.87	4A	ICP
COMLAB	30	0.16	70	-0.94	210	0.00	30	-0.81	220	-0.20	19150	0.02	4A	ES
COMLAB	60	3.00	90	1.92	230	0.99	40	0.17	240	1.07	18900	-0.20	4A	ES
COMLAB	nr	nr	nr	nr	nr	nr	nr	nr	nr	nr	20300	1.05	4A	ES
COMLAB	30	0.16	70	-0.94	220	0.49	50	1.14	220	-0.20	19150	0.02	4A	ES
COMLAB	30	0.16	70	-0.94	220	0.49	30	-0.81	220	-0.20	19300	0.16	AR	ES
COMLAB	30	0.16	80	0.49	240	1.49	30	-0.81	240	1.07	20400	1.14	AR	ES
COMLAB	30	0.16	80	0.49	250	1.98	50	1.14	220	-0.20	19200	0.07	4A	ES
COMLAB	30	0.16	80	0.49	230	0.99	20	-1.78	230	0.44	20400	1.14	AR	AAS
COMLAB	<100	bld	100	3.00	300	3.00	100	3.00	300	3.00	19700	0.52	4A	AAS
COMLAB	29	-0.08	80	0.49	202	-0.40	42	0.36	233	0.63	19130	0.01	5A	ES
COMLAB	28	-0.39	74	-0.33	181	-1.46	30	-0.81	222	-0.07	17300	-1.63	4A	ES
COMLAB	30	0.16	90	1.92	220	0.49	50	1.14	230	0.44	19360	0.21	4A	AAS
COMLAB	54	3.00	83	0.92	243	1.64	35	-0.32	233	0.63	19700	0.52	3A	ES
COMLAB	33	0.87	65	-1.65	219	0.44	28	-1.00	222	-0.07	18220	-0.81	AR	ES
COMLAB	38	2.05	74	-0.37	240	1.49	45	0.66	230	0.44	19600	0.43	NAA	
COMLAB	34	1.10	76	-0.08	204	-0.30	42	0.36	224	0.06	19700	0.52	4A	ES
COMLAB	25	-1.15	62	-2.03	186	-1.18	31	-0.73	189	-2.16	19792	0.60	4A	ICP
COMLAB	25	-1.13	66	-1.47	149	-3.00	40	0.18	179	-2.80	20699	1.41	4A	ICP
COMLAB	30	0.16	77	0.06	212	0.10	43	0.46	232	0.56	19300	0.16	4A	ES
COMLAB	28	-0.32	73	-0.51	199	-0.55	40	0.17	213	-0.64	19549	0.38	4A	AAS
COMLAB	30	0.16	78	0.20	207	-0.15	30	-0.81	230	0.44	20015	0.80	AR	ES
COMLAB	28	-0.27	78	0.15	194	-0.80	42	0.35	223	-0.01	21000	1.68	4A	
COMLAB	255	3.00	94	2.49	187	-1.15	48	0.95	239	1.01	19400	0.25	4A	AAS
COMLAB	<30	bld	77	-0.01	195	-0.75	42	0.38	197	-1.67	18472	-0.58	3A,MICR	ES
COMLAB	27	-0.63	62	-2.12	157	-2.64	35	-0.31	193	-1.91	17688	-1.28	3A,MICR	ES
COMLAB	28	-0.32	76	-0.08	202	-0.40	40	0.17	219	-0.26	18587	-0.48	4A	ICP,MS
COMLAB	35	1.25	85	1.22	257	2.32	30	-0.79	257	2.16	19154	0.03	AR	ES
COMLAB	27	-0.55	78	0.20	210	0.00	43	0.46	222	-0.07	20196	0.96	4A	AAS
COMLAB	44	3.00	80	0.49	208	-0.11	60	2.12	213	-0.66	18016	-0.99	4A	AAS
COMLAB	28	-0.32	71	-0.80	194	-0.80	45	0.66	210	-0.83	19300	0.16	4A	ES
COMLAB	30	0.16	70	-0.94	385	3.00	45	0.66	220	-0.20	20400	1.14		MS
COMLAB	30	0.16	79	0.35	228	0.89	42	0.36	227	0.25	19807	0.61	4A	ES
COMLAB	29	-0.08	82	0.77	228	0.89	42	0.36	234	0.69	19900	0.70	4A	ES
COMLAB	<100	bld	100	3.00	200	-0.50	<100	bld	200	-1.47	19900	0.70	4A	AAS
COMLAB	27	-0.55	71	-0.80	191	-0.95	42	0.36	206	-1.09	17374	-1.57	4A	ICP
COMLAB	33	0.87	79	0.35	200	-0.50	27	-1.10	231	0.50	19677	0.50	AR	ES
COMLAB	30	0.15	82	0.72	216	0.29	47	0.88	234	0.69	19465	0.31	4A	ICP
COMLAB	46	3.00	69	-1.08	422	3.00	30	-0.81	206	-1.09	16750	-2.12	AR	ES
COMLAB	<10	-3.00	<10	-3.00	193	-0.85	<10	bld	210	-0.83	18267	-0.77	AR	AAS
COMLAB	18	-2.69	62	-2.08	205	-0.25	29	-0.91	185	-2.42	18679	-0.40	4A	ICP
COMLAB	23	-1.50	74	-0.37	210	0.00	39	0.07	230	0.44	19452	0.29	4A	ES
COMLAB	28	-0.32	77	0.06	224	0.69	43	0.46	228	0.31	19051	-0.06	FUS,4A	ES
COMLAB	12	-3.00	33	-3.00	93	-3.00	14	-2.40	87	-3.00	11375	-3.00	AR	AAS
COMLAB	30	0.16	78	0.20	185	-1.25	27	-1.10	230	0.44	17770	-1.21	4A	ES
COMLAB	49	3.00	87	1.49	193	-0.85	57	1.83	188	-2.23	13545	-3.00	AR	AAS
COMLAB	34	1.10	84	1.06	187	-1.15	43	0.46	221	-0.14	20644	1.36	4A	AAS
COMLAB	28	-0.32	77	0.06	215	0.24	40	0.17	222	-0.07	18617	-0.45	2A,MICR	ICP
COMLAB	32	0.63	90	1.92	255	2.23	49	1.05	252	1.84	17793	-1.19	4A	ES
COMLAB	31	0.39	81	0.63	200	-0.50	37	-0.13	210	-0.83	20453	1.19	4A	AAS
COMLAB	<50	bld	85	1.23	257	2.33	54	1.51	253	1.90	19700	0.52	4A	AAS
COMLAB	36	1.68	83	0.98	216	0.30	57	1.83	240	1.06	19121	0.00	4A	AAS
COMLAB	26	-0.79	69	-1.08	183	-1.35	29	-0.91	219	-0.26	>1000	ald	AR	MS
COMLAB	35	1.34	85	1.20	230	0.99	45	0.66	260	2.34	21100	1.77	4A	ES
COMLAB	35	1.34	858	3.00	189	-1.05	60	2.12	214	-0.58	17003	-1.90	FUS	XRF
COMLAB	28	-0.43	79	0.37	226	0.81	44	0.60	223	-0.03	18715	-0.37	4A	ICP,AAS
COMLAB	<100	bld	<100	bld	273	3.00	<100	bld	232	0.56	20037	0.82	FUS	ICP
COMLAB	25	-1.03	71	-0.80	192	-0.90	40	0.17	207	-1.03	17108	-1.80	4A	ES
COMLAB	<100	bld	<100	bld	225	0.74	<100	bld	245	1.39	19264	0.13	4A	ES
COMLAB	30	0.16	78	0.20	211	0.05	44	0.56	223	-0.01	18562	-0.50	4A	ES
COMLAB	28	-0.32	75	-0.23	196	-0.70	25	-1.30	217	-0.39	17153	-1.76	3A	ICP
COMLAB	28	-0.32	78	0.20	213	0.15	42	0.36	233	0.63	20702	1.41	4A	ICP
COMLAB	52	3.00	80	0.49	201	-0.45	30	-0.81	222	-0.07	19281	0.14	AR	AAS
MINELAB	24	-1.23	73	-0.53	203	-0.35	31	-0.75	225	0.13	20402	1.14	AR	AAS
MINELAB	40	2.53	70	-0.94	230	0.99	50	1.14	220	-0.20	19700	0.52	4A	AAS
MINELAB	30	0.16	90	1.92	260	2.48	50	1.14	250	1.71	18900	-0.20	4A	ES
MINELAB	3	-3.00	46	-3.00	192	-0.91	0	-3.00	213	-0.66	20826	1.52	AR	ICP
MINELAB	21	-1.98	60	-2.37	142	-3.00	22	-1.59	166	-3.00	16541	-2.31	3A	ES
MINELAB	27	-0.55	80	0.46	178	-1.61	32	-0.60	209	-0.91	18020	-0.99	AR	ES
MINELAB	31	0.39	67	-1.37	233	1.14	31	-0.71	239	1.01	17973	-1.03		



Ore Grade Silver Round Robin - Summary Statistics, Assays, Standardised Values and Graphs - April 2022

Standard Reference	GBM322-11	GBM322-12	GBM322-13	GBM322-14	GBM322-15	GBM322-16
MEAN (ppm)	1.0	19.8	4.3	19.3	29.0	52.9
STDEV (ppm)	0.9	1.6	0.7	1.5	1.6	2.5
95% CI (ppm)	0.3	0.3	0.2	0.3	0.3	0.5
95% CI (%)	27.94%	1.48%	3.52%	1.53%	1.08%	0.91%
MIN (ppm)	0.1	16.0	2.8	15.0	25.0	46.3
MEDIAN (ppm)	0.5	19.8	4.1	19.2	29.0	53.0
MAX (ppm)	3.0	24.0	6.3	23.4	33.3	59.7
IQR (ppm)	1.0	2.0	0.7	1.8	2.0	3.1
COUNT	42	108	94	102	103	104

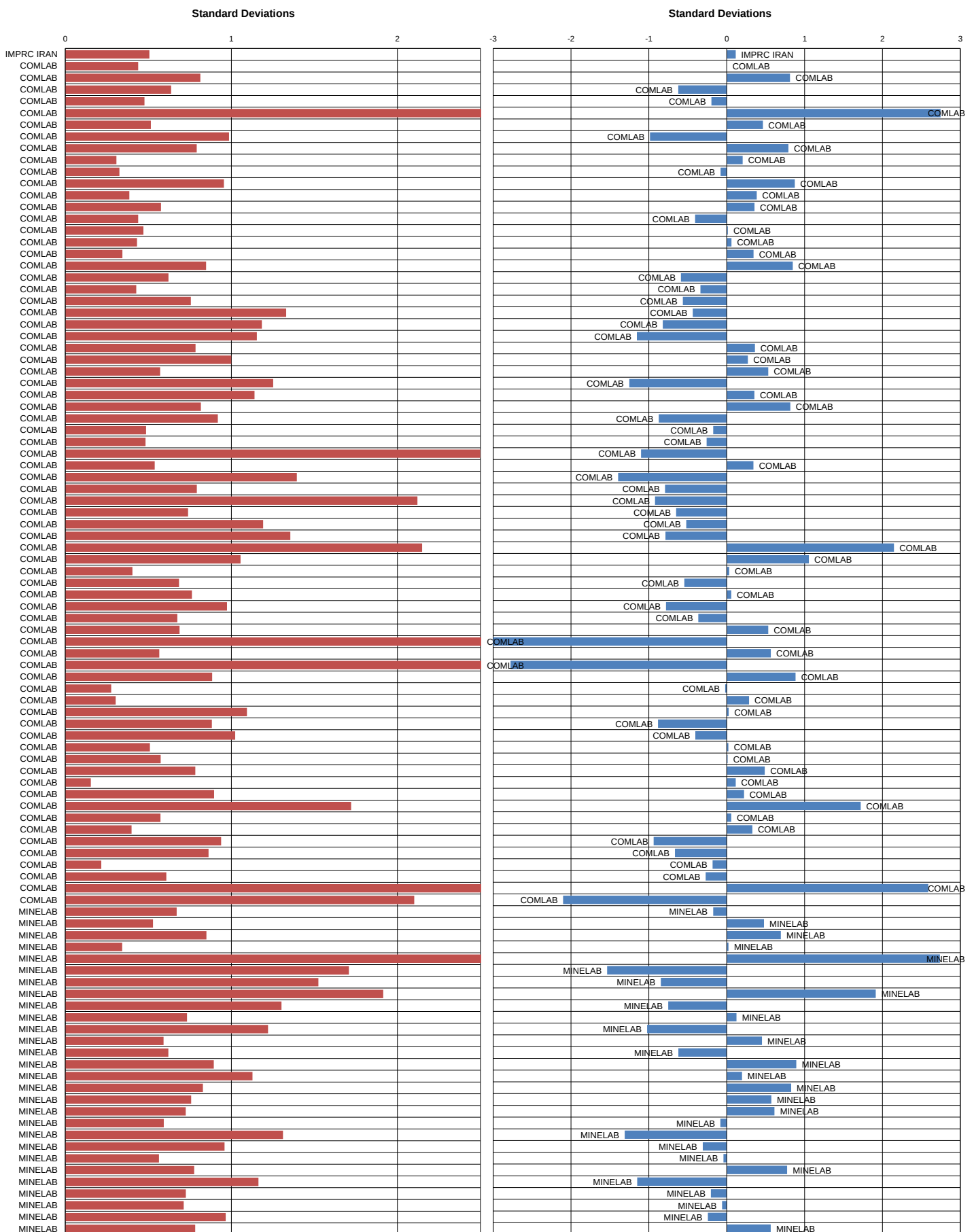
Standard Reference	GBM322-11		GBM322-12		GBM322-13		GBM322-14		GBM322-15		GBM322-16		Method	Reading
Lab Reference	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score		
IMPRC IRAN	1.0	0.04	22.0	1.40	4.0	-0.41	21.0	1.15	29.0	0.00	59.0	2.44	4A	ES
COMLAB	<3.0	bld	21.0	0.76	4.0	-0.41	19.0	-0.17	28.0	-0.62	53.0	0.04	4A	ES
COMLAB	<3.0	bld	19.0	-0.53	<3.0	bld	18.0	-0.83	31.0	1.24	49.0	-1.56	4A	ES
COMLAB	<20.0	bld	23.0	2.05	<20.0	bld	<20.0	bld	32.0	1.87	54.0	0.44	4A	AAS
COMLAB	0.4	-0.65	22.7	1.85	5.0	0.93	19.4	0.10	33.3	2.67	58.9	2.40	FUS	ICP
COMLAB	3.0	2.32	27.0	3.00	7.0	3.00	20.0	0.49	30.0	0.62	53.0	0.04	4A	AAS
COMLAB	<0.5	bld	19.8	-0.02	4.8	0.66	20.5	0.82	31.3	1.43	54.6	0.68	4A	ES
COMLAB	<5.0	bld	19.0	-0.53	<5.0	bld	18.0	-0.83	30.0	0.62	52.0	-0.36	3A	ES
COMLAB	<1.0	bld	21.0	0.76	5.0	0.93	21.0	1.15	31.0	1.24	55.0	0.84	4A	ES
COMLAB	1.0	0.04	19.0	-0.53	6.0	2.27	17.0	-1.49	26.0	-1.87	49.0	-1.56	3A	AAS
COMLAB	<1.0	bld	20.0	0.11	4.0	-0.41	20.0	0.49	28.0	-0.62	53.0	0.04	4A	ES
COMLAB	<1.0	bld	21.0	0.76	4.0	-0.41	20.0	0.49	29.0	0.00	52.0	-0.36	FUS	ES
COMLAB	<1.0	bld	21.0	0.76	5.0	0.93	20.0	0.49	29.0	0.00	55.0	0.84	4A	ES
COMLAB	<1.0	bld	21.0	0.76	4.0	-0.41	18.0	-0.83	29.0	0.00	55.0	0.84	4A	ICP
COMLAB	<1.0	bld	17.0	-1.82	2.0	-3.00	16.0	-2.15	29.0	0.00	52.0	-0.36	4A	ES
COMLAB	<1.0	bld	20.0	0.11	6.0	2.27	19.0	-0.17	28.0	-0.62	53.0	0.04	4A	ES
COMLAB	<1.0	bld	21.0	0.76	4.0	-0.41	20.0	0.49	29.0	0.00	54.0	0.44	4A	ES
COMLAB	<1.0	bld	19.0	-0.53	4.0	-0.41	19.0	-0.17	29.0	0.00	55.0	0.84	AR	ES
COMLAB	<1.0	bld	19.0	-0.53	4.0	-0.41	19.0	-0.17	29.0	0.00	55.0	0.84	AR	ES
COMLAB	<1.0	bld	20.0	0.11	5.0	0.93	20.0	0.49	29.0	0.00	54.0	0.44	4A	ES
COMLAB	1.0	0.04	19.0	-0.53	5.0	0.93	20.0	0.49	28.0	-0.62	52.0	-0.36	4A	AAS
COMLAB	1.0	0.04	19.0	-0.53	4.0	-0.41	19.0	-0.17	31.0	1.24	53.0	0.04	AR	AAS
COMLAB	<1.0	bld	20.0	0.11	5.0	0.93	21.0	1.15	30.0	0.62	53.0	0.04	4A	AAS
COMLAB	<1.0	bld	21.0	0.76	4.0	-0.41	18.0	-0.83	28.0	-0.62	52.0	-0.36	4A	ES
COMLAB	<1.0	bld	19.0	-0.53	4.0	-0.41	19.0	-0.17	28.0	-0.62	55.0	0.84	4A	ES
COMLAB	<2.0	bld	21.0	0.76	4.0	-0.41	19.0	-0.17	29.0	0.00	53.0	0.04	5A	ES
COMLAB	<0.5	bld	18.8	-0.66	4.1	-0.24	21.2	1.29	31.5	1.55	50.6	-0.94	4A	ES
COMLAB	<2.0	bld	21.0	0.76	4.0	-0.41	22.0	1.81	29.0	0.00	54.0	0.44	4A	AAS
COMLAB	0.4	-0.64	19.6	-0.15	4.2	-0.15	19.8	0.36	29.2	0.12	50.8	-0.84	3A	MS
COMLAB	<1.0	bld	19.0	-0.53	4.0	-0.41	18.0	-0.83	27.0	-1.24	48.0	-1.96	AR	AAS
COMLAB	<2.0	bld	20.0	0.11	6.0	2.27	20.0	0.49	30.0	0.62	58.0	2.04	AR	ES
COMLAB	<5.0	bld	20.0	0.11	<5.0	bld	18.0	-0.83	29.0	0.00	54.0	0.44	NAA	
COMLAB	<0.5	bld	20.0	0.11	4.0	-0.41	19.0	-0.17	30.0	0.62	50.5	-0.96	4A	MS
COMLAB	<1.0	bld	18.3	-1.02	4.5	0.23	16.5	-1.83	28.6	-0.24	47.0	-2.35	AR	ICP
COMLAB	<1.0	bld	17.4	-1.54	4.1	-0.29	18.0	-0.83	27.0	-1.26	49.3	-1.45	AR	ICP
COMLAB	<0.5	bld	20.3	0.31	3.9	-0.55	19.6	0.23	28.0	-0.62	51.0	-0.76	4A	MS
COMLAB	0.5	-0.53	20.3	0.31	4.3	-0.01	18.4	-0.57	29.4	0.25	52.2	-0.28	4A	AAS
COMLAB	<0.5	bld	19.4	-0.27	4.1	-0.28	20.0	0.49	30.7	1.06	55.1	0.88	AR	AAS
COMLAB	2.0	1.18	18.0	-1.18	4.0	-0.41	18.0	-0.83	27.0	-1.24	50.0	-1.16	AR	ES
COMLAB	0.1	-0.94	20.0	0.11	3.5	-1.06	20.5	0.82	29.4	0.25	52.6	-0.12	AR	AAS
COMLAB	0.4	-0.63	20.0	0.11	4.3	0.03	17.3	-1.29	27.3	-1.06	51.3	-0.64	4A	
COMLAB	<0.2	bld	14.0	-3.00	3.4	-1.22	14.6	-3.00	23.2	-3.00	39.4	-3.00	4A	AAS
COMLAB	<5.0	bld	23.6	2.43	<5.0	bld	<5.0	-3.00	25.7	-2.05	50.9	-0.80	3A,MICR	ES
COMLAB	bld	bld	20.4	0.34	bld	bld	18.1	-0.74	27.0	-1.26	56.7	1.52	3A,MICR	ES
COMLAB	<1.0	bld	21.0	0.76	4.0	-0.41	20.0	0.49	29.0	0.00	52.0	-0.36	4A	AAS
COMLAB	2.6	1.89	21.4	1.01	5.7	1.91	18.2	-0.73	31.7	1.67	59.7	2.71	AR	AAS
COMLAB	<1.0	bld	22.0	1.40	5.0	0.93	20.0	0.49	29.0	0.00	52.0	-0.36	4A	AAS
COMLAB	4.3	3.00	36.7	3.00	14.2	3.00	32.4	3.00	49.5	3.00	72.8	3.00	4A	AAS
COMLAB	<5.0	bld	21.0	0.76	5.0	0.93	19.0	-0.17	28.0	-0.62	54.0	0.44	4A	ES
COMLAB	<1.0	bld	18.0	-1.18	4.0	-0.41	21.0	1.15	32.0	1.87	56.0	1.24	4A	MS
COMLAB	<2.0	bld	19.0	-0.53	4.0	-0.41	20.0	0.49	28.0	-0.62	52.0	-0.36	4A	ES
COMLAB	0.4	-0.64	20.9	0.69	4.2	-0.15	19.2	-0.04	28.5	-0.31	53.2	0.12	4A	ES
COMLAB	<5.0	bld	21.0	0.76	5.0	0.93	23.0	2.48	30.0	0.62	55.0	0.84	4A	AAS
COMLAB	2.6	1.86	23.7	2.50	8.5	3.00	21.4	1.42	38.3	3.00	58.4	2.20	3A	AAS
COMLAB	0.5	-0.53	22.4	1.66	4.2	-0.15	18.9	-0.23	29.6	0.37	54.3	0.56	4A	ICP
COMLAB	<4.0	bld	22.0	1.40	<4.0	bld	19.0	-0.17	29.0	0.00	56.0	1.24	AR	ES
COMLAB	0.3	-0.80	19.4	-0.28	4.1	-0.23	21.9	1.75	30.8	1.09	53.4	0.21	4A	ICP
COMLAB	0.1	-0.98	19.0	-0.53	3.7	-0.82	18.6	-0.43	30.6	0.99	54.3	0.56	AR	ES
COMLAB	19.0	3.00	8.0	-3.00	20.0	3.00	30.0	3.00	56.0	3.00	24.0	-3.00	AR	AAS
COMLAB	<1.0	bld	23.0	2.05	4.0	-0.41	15.0	-2.81	27.0	-1.24	48.0	-1.96	4A	ICP
COMLAB	<5.0	bld	19.0	-0.53	<5.0	bld	18.0	-0.83	29.0	0.00	51.0	-0.76	4A	ES
COMLAB	<1.0	bld	19.0	-0.53	4.0	-0.41	20.0	0.49	34.0	3.00	55.0	0.84	AR	ES
COMLAB	6.3	3.00	18.3	-0.99	3.0	-1.77	18.4	-0.58	15.9	-3.00	26.8	-3.00	AR	AAS
COMLAB	1.4	0.50	19.4	-0.27	2.8	-2.02	17.7	-1.03	28.5	-0.31	51.0	-0.76	4A	ES
COMLAB	0.7	-0.30	21.3	0.95	4.4	0.12	20.1	0.56	30.0	0.62	51.2	-0.68	4A	AAS
COMLAB	0.2	-0.87	21.7	1.21	3.5	-1.08	19.9	0.43	30.0	0.62	53.1	0.08	2A,MICR	ICP
COMLAB	2.5	1.75	22.8	1.92	4.6	0.39	22.1	1.88	30.3	0.81	52.9	0.00	4A	ES
COMLAB	<1.0	bld	18.0	-1.16	3.3	-1.42	18.8	-0.30	26.0	-1.87	50.0	-1.16	4A	AAS
COMLAB	<1.0	bld	18.3	-0.98	4.7	0.53	20.0	0.49	27.3	-1.06	51.7	-0.48	4A	AAS
COMLAB	0.3	-0.80	20.7	0.59	3.0	-1.80	17.3	-1.30	28.3	-0.41	52.0	-0.37	4A	AAS
COMLAB	0.4	-0.64	19.3	-0.34	3.6	-0.95	20.0	0.49	28.3	-0.44	52.8	-0.04	4A	AAS
COMLAB	0.2	-0.87	16.3	-2.27	4.2	-0.15	38.4	3.00	27.7	-0.81	47.9	-2.00	AR	MS
COMLAB	<20.0	bld	20.0	0.11	<20.0	bld	<20.0	bld	35.0	3.00	50.0	-1.16	4A	ES
COMLAB	<2.0	bld	21.0	0.76	3.0	-1.76	18.0	-0.83	28.0	-0.62	54.0	0.44	4A	ICP
COMLAB	0.7	-0.32	19.7	-0.06	4.3	-0.08	17.9	-0.93	28.2	-0.52	52.8	-0.04	4A	ICP,AAS
COMLAB	<1.0	bld	18.0	-1.18	4.0	-0.41	21.0	1.15	29.0	0.00	54.0	0.44	3A	AAS
COMLAB	0.4	-0.64	19.2	-0.40	3.5	-1.08	17.5	-1.16	27.8	-0.75	52.1	-0.32	4A	ES
COMLAB	0.4	-0.64	19.2	-0.40	4.6	0.39	20.7	0.96	31.0	1.24	56.6	1.48	AR	AAS
COMLAB	<1.0	bld	20.6	0.50	4.2	-0.15	19.1	-0.10	29.1	0.06	53.5	0.24	4A	ES
COMLAB	9.7	3.00	10.6	-3.00	11.4	3.00	23.4	2.74	41.0	3.00	27.			



Ore Grade Sulphur Round Robin - Summary Statistics, Assays, Standardised Values and Graphs - April 2022

Standard Reference	GBM322-11	GBM322-12	GBM322-13	GBM322-14	GBM322-15	GBM322-16
MEAN (%)	0.70	0.03	6.32	1.19	2.21	6.87
STDEV (%)	0.03	0.01	0.16	0.05	0.07	0.38
95% CI (%)	0.01	0.00	0.03	0.01	0.02	0.08
95% CI (rel %)	0.94%	5.07%	0.52%	0.84%	0.69%	1.11%
MIN (%)	0.61	0.02	5.91	1.05	2.01	5.98
MEDIAN (%)	0.70	0.03	6.34	1.19	2.21	6.84
MAX (%)	0.77	0.05	6.72	1.30	2.41	7.91
IQR (%)	0.04	0.01	0.17	0.07	0.10	0.46
COUNT	91	73	88	91	90	96

Standard Reference	GBM322-11		GBM322-12		GBM322-13		GBM322-14		GBM322-15		GBM322-16		Method	Reading
Lab Reference	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score		
IMPRC IRAN	0.68	-0.52	0.11	3.00	6.47	0.93	1.18	-0.13	2.26	0.63	6.74	-0.33	CSA	IR
COMLAB	0.68	-0.52	0.07	3.00	6.42	0.61	1.21	0.49	2.21	-0.05	6.67	-0.52	FUS	ICP
COMLAB	0.70	0.11	0.04	1.01	6.39	0.42	1.27	1.74	2.27	0.76	7.26	1.04	4A	ES
COMLAB	0.69	-0.30	0.04	0.45	6.12	-1.31	1.16	-0.54	2.14	-1.01	6.88	0.04	FUS	ICP
COMLAB	0.69	-0.20	0.03	-0.38	6.21	-0.73	1.22	0.70	2.17	-0.60	6.81	-0.15	CSA	IR
COMLAB	0.77	2.33	0.03	-0.38	6.86	3.00	1.38	3.00	2.59	3.00	7.78	2.41	4A	ES
COMLAB	0.70	0.11	0.02	-1.78	6.43	0.67	1.18	-0.13	2.32	1.44	6.95	0.22	3A	ES
COMLAB	0.63	-2.10	0.03	-0.38	6.22	-0.67	1.15	-0.75	2.15	-0.87	6.66	-0.54	CSA	IR
COMLAB	0.71	0.43	0.04	1.01	6.41	0.54	1.21	0.49	2.28	0.90	7.47	1.59	FUS	XRF
COMLAB	0.69	-0.20	0.03	-0.38	6.34	0.10	1.22	0.70	2.21	-0.05	7.05	0.48	4A	ES
COMLAB	0.70	0.11	<0.05	bld	6.26	-0.41	1.21	0.49	2.17	-0.60	6.87	0.01	FUS	ES
COMLAB	0.69	-0.20	0.03	-0.38	6.58	1.63	1.24	1.12	2.27	0.76	7.27	1.06	4A	ES
COMLAB	0.71	0.43	0.06	3.00	6.35	0.16	1.20	0.29	2.24	0.35	7.13	0.70	CSA	IR
COMLAB	0.68	-0.52	0.05	2.40	6.32	-0.03	1.24	1.12	2.26	0.63	7.09	0.59	4A	ES
COMLAB	0.69	-0.20	0.03	-0.38	6.28	-0.29	1.13	-1.16	2.22	0.08	6.69	-0.46	CSA	IR
COMLAB	0.68	-0.52	0.04	1.01	6.30	-0.16	1.22	0.70	2.18	-0.46	7.06	0.51	CSA	IR
COMLAB	0.72	0.75	0.03	-0.38	6.24	-0.54	1.17	-0.33	2.21	-0.05	7.05	0.48	4A	ES
COMLAB	0.72	0.75	0.02	-1.78	6.36	0.23	1.20	0.29	2.22	0.08	7.01	0.38	AR	ES
COMLAB	0.71	0.43	0.04	1.01	6.53	1.31	1.24	1.12	2.28	0.90	7.05	0.48	AR	ES
COMLAB	0.65	-1.47	0.04	1.01	6.25	-0.48	1.15	-0.75	2.22	0.08	6.74	-0.33	CSA	IR
COMLAB	0.69	-0.20	0.05	2.40	6.36	0.23	1.16	-0.54	2.17	-0.60	6.65	-0.57	CSA	IR
COMLAB	0.67	-0.83	0.03	-0.38	6.40	0.48	1.13	-1.16	2.16	-0.73	6.65	-0.57	CSA	IR
COMLAB	0.70	0.11	0.03	-0.38	6.35	0.16	1.03	-3.00	2.11	-1.41	7.61	1.96	5A	ES
COMLAB	0.69	-0.13	0.03	-0.27	5.76	-3.00	1.23	0.91	2.10	-1.55	6.74	-0.33	4A	ES
COMLAB	0.66	-1.15	<0.05	bld	6.14	-1.18	1.12	-1.37	2.10	-1.55	6.67	-0.52	AR	ES
COMLAB	0.67	-0.83	0.03	-0.38	6.29	-0.22	1.27	1.74	2.24	0.35	7.16	0.77	CSA	IR
COMLAB	0.76	2.01	<0.05	bld	6.04	-1.82	1.22	0.70	2.23	0.22	6.96	0.25	AR	ES
COMLAB	0.72	0.59	0.03	-0.38	6.31	-0.09	1.22	0.70	2.24	0.35	7.29	1.12	4A	ES
COMLAB	0.66	-1.15	0.03	-0.38	6.17	-0.99	1.14	-0.95	2.06	-2.09	6.46	-1.07	CSA	IR
COMLAB	0.74	1.38	0.04	1.01	6.31	-0.09	1.30	2.36	2.14	-1.01	6.54	-0.86	CSA	IR
COMLAB	0.71	0.27	0.03	-0.38	6.39	0.42	1.24	1.12	2.28	0.90	7.39	1.38	4A	ES
COMLAB	0.70	0.11	0.07	3.00	6.32	-0.03	1.10	-1.78	2.12	-1.28	6.34	-1.39	CSA	IR
COMLAB	0.71	0.43	0.03	-0.38	6.19	-0.86	1.15	-0.75	2.24	0.35	6.85	-0.04	AR	ES
COMLAB	0.67	-0.83	0.03	-0.38	6.40	0.48	1.19	0.08	2.15	-0.87	6.81	-0.15		
COMLAB	0.40	-3.00	0.02	-1.78	8.68	3.00	1.21	0.49	1.96	-3.00	3.47	-3.00		
COMLAB	0.69	-0.30	0.03	-0.24	6.40	0.48	1.19	0.08	2.20	-0.19	7.49	1.64	4A	
COMLAB	0.65	-1.47	0.03	-0.38	5.91	-2.65	1.15	-0.75	2.19	-0.33	6.19	-1.78	CSA	IR
COMLAB	0.65	-1.47	0.03	-0.38	6.26	-0.41	1.13	-1.16	2.20	-0.19	6.59	-0.73	CSA	IR
COMLAB	0.82	3.00	0.31	3.00	5.21	-3.00	1.14	-0.95	1.82	-3.00	6.62	-0.65	3A/MICR	ES
COMLAB	0.64	-1.78	<0.08	bld	6.35	0.16	1.14	-0.95	2.16	-0.73	6.89	0.06	CSA	IR
COMLAB	0.73	1.06	0.03	-1.08	5.91	-2.65	1.11	-1.58	2.21	-0.05	7.10	0.62	AR	ES
COMLAB	0.70	0.11	0.07	3.00	6.21	-0.73	0.94	-3.00	2.31	1.31	6.25	-1.62	CSA	IR
COMLAB	0.77	2.33	0.03	-0.38	6.89	3.00	1.26	1.53	2.34	1.71	7.69	2.17	4A	ES
COMLAB	0.76	2.01	0.03	-0.38	6.40	0.48	1.23	0.91	2.26	0.63	7.34	1.25		ES
COMLAB	0.70	0.11	0.03	-0.38	6.41	0.54	1.17	-0.33	2.17	-0.60	7.03	0.43	4A	ES
COMLAB	0.69	-0.20	0.03	-0.38	6.15	-1.12	1.15	-0.75	2.14	-1.01	7.00	0.35	4A	ES
COMLAB	0.70	0.11	0.03	-0.38	6.47	0.93	1.13	-1.16	2.17	-0.60	7.25	1.01	CSA	IR
COMLAB	0.64	-1.78	0.04	1.01	6.27	-0.35	1.08	-2.20	2.21	-0.05	7.05	0.48	CSA	IR
COMLAB	0.68	-0.52	0.03	-0.38	6.23	-0.60	1.17	-0.33	2.13	-1.14	7.16	0.77	CSA	IR
COMLAB	0.71	0.43	0.05	2.40	6.55	1.44	1.20	0.29	2.28	0.90	6.72	-0.39	CSA	IR
COMLAB	0.53	-3.00	0.03	-0.38	5.79	-3.00	0.87	-3.00	1.70	-3.00	5.41	-3.00	4A	ICP
COMLAB	0.70	0.11	0.03	-0.38	6.35	0.16	1.24	1.12	2.29	1.03	7.02	0.41	AR	ES
COMLAB	0.61	-2.73	0.03	-0.38	5.80	-3.00	1.05	-2.82	1.95	-3.00	5.98	-2.34	FUS	ICP
COMLAB	0.71	0.43	0.04	1.01	6.53	1.31	1.22	0.70	2.32	1.44	7.07	0.54	CSA	IR
COMLAB	0.69	-0.20	0.03	-0.38	6.29	-0.22	1.18	-0.13	2.20	-0.19	7.11	0.64	4A	ES
COMLAB	0.70	0.11	0.03	-0.38	6.47	0.93	1.19	0.08	2.24	0.35	6.85	-0.04	CSA	IR
COMLAB	0.65	-1.47	0.03	-0.38	6.48	0.99	1.23	0.91	2.28	0.90	6.41	-1.20	4A	AAS
COMLAB	0.69	-0.20	0.03	-0.38	5.97	-2.27	1.17	-0.33	2.12	-1.28	6.74	-0.33	2A/MICR	ICP
COMLAB	0.73	1.06	0.04	1.01	6.14	-1.18	1.12	-1.37	2.25	0.49	6.48	-1.02	4A	ES
COMLAB	0.67	-0.83	<0.01	-3.00	6.40	0.48	1.21	0.49	2.24	0.35	6.72	-0.39	CSA	IR
COMLAB	0.68	-0.52	0.02	-1.78	6.25	-0.48	1.22	0.70	2.27	0.76	6.71	-0.41	CSA	IR
COMLAB	0.72	0.79	0.06	3.00	6.61	1.79	1.22	0.60	2.19	-0.33	6.71	-0.41	CSA	IR
COMLAB	0.71	0.43	0.03	-0.38	6.35	0.16	1.19	0.08	2.21	-0.05	6.85	-0.04	CSA	IR
COMLAB	0.68	-0.61	0.03	-0.66	6.63	1.95	1.20	0.29	2.16	-0.73	nr	nr	CSA	IR
COMLAB	0.74	1.32	<0.05	bld	6.53	1.31	1.29	2.15	2.33	1.58	7.72	2.25	4A	ES
COMLAB	0.73	1.06	0.05	2.40	6.24	-0.54	1.15	-0.75	2.22	0.08	7.03	0.43	CSA	IR
COMLAB	0.72	0.75	0.03	-0.38	6.34	0.10	1.19	0.08	2.28	0.90	6.80	-0.17	4A,CSA	ICP,IR
COMLAB	0.66	-1.15	0.04	1.01	6.18	-0.92	1.16	-0.54	2.14	-1.01	6.46	-1.07	CSA	IR
COMLAB	0.64	-1.78	0.04	1.01	6.24	-0.54	1.21	0.49	2.21	-0.05	6.32	-1.44	CSA	IR
COMLAB	0.68	-0.52	0.03	-0.38	6.30	-0.16	1.18	-0.13	2.20	-0.19	6.90	0.09	CSA	IR
COMLAB	0.71	0.43	0.11	3.00	6.39	0.42	1.15	-0.75	2.19	-0.33	6.44	-1.12	AR,IH	GRAV
COMLAB	0.76	2.01	0.03	-0.38	6.94	3.00	1.34	3.00	2.49	3.00	7.60	1.93	CSA	IR
COMLAB	0.60	-3.00	0.05	2.40	6.18	-0.92	1.04	-3.00	2.07	-1.96	6.25	-1.62	CSA	IR
MINELAB	0.66	-1.15	0.02	-1.78	6.40	0.48	1.18	-0.13	2.27	0.76	6.55	-0.83	CSA	IR
MINELAB	0.73	1.06	0.04	1.01	6.43	0.67	1.22	0.70	2.22	0.08	6.82	-0.12	4A	ES
MINELAB	0.71	0.43	0.09	3.00	6.80	3.00	1.17	-0.33	2.21	-0.05	7.03	0.43	CSA	IR
MINELAB	0.70	0.11	0.01	-3.00	6.45	0.80	1.17	-0.33	2.21	-0.05	6.71	-0.41	CSA	IR
MINELAB	0.82	3.00	0.04	1.01	6.97	3.00	1.28	1.94	2.52	3.00	7.91	2.75	3A	ES
MINELAB	0.71	0.43	0.03	-0.38	5.53	-3.00	1.12	-1.37	2.07	-1.96	6.19	-1.78	AR	ES
MINELAB	0.75	1.69	0.24	3.00	6.10	-1.44	1.12	-1.37	1.83	-3.00	6.82	-0.12	CSA	IR
MINELAB	0.92	3.00	0.23	3.00	6.44	0.74	1.37	3.00	2.41	2.67	6.93	0.17	CSA	IR
MINELAB	0.52	-3.00	<0.001	-3.00	6.54	1.37	1.17	-0.33	2.11	-1.41	6.72	-0.39	CSA	IR
MINELAB	0.72	0.75	0.04	1.01	6.25	-0.48	1.23	0.91	2.25	0.49	6.47	-1.04	CSA	IR
MINELAB	0.69	-0.20	0.13	3.00	6.07	-1.63	1.21	0.49	1.89	-3.00	6.57	-0.78		



Sulphur Round Robin - Summary Statistics, Assays, Standardised Values and Graphs - April 2022

Standard Reference	GS322-1	GS322-2	GS322-3	GS322-4	GS322-5	GS322-6	GS322-7	GS322-8	GS322-9	GS322-10
MEAN (%)	0.21	0.68	0.69	0.24	0.52	0.61	1.10	21.49	2.64	11.63
STDEV (%)	0.02	0.02	0.02	0.02	0.03	0.04	0.03	0.93	0.09	0.42
95% CI (%)	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.18	0.02	0.08
95% CI (rel %)	1.55%	0.73%	0.72%	1.67%	1.07%	1.15%	0.65%	0.86%	0.71%	0.73%
MIN (%)	0.17	0.63	0.63	0.19	0.45	0.53	1.01	19.10	2.45	10.55
MEDIAN (%)	0.21	0.69	0.70	0.24	0.52	0.61	1.11	21.50	2.63	11.61
MAX (%)	0.25	0.74	0.75	0.29	0.58	0.71	1.18	23.76	2.90	12.71
IQR (%)	0.02	0.03	0.03	0.02	0.03	0.04	0.04	0.92	0.12	0.45
COUNT	96	93	94	96	91	97	88	99	96	97

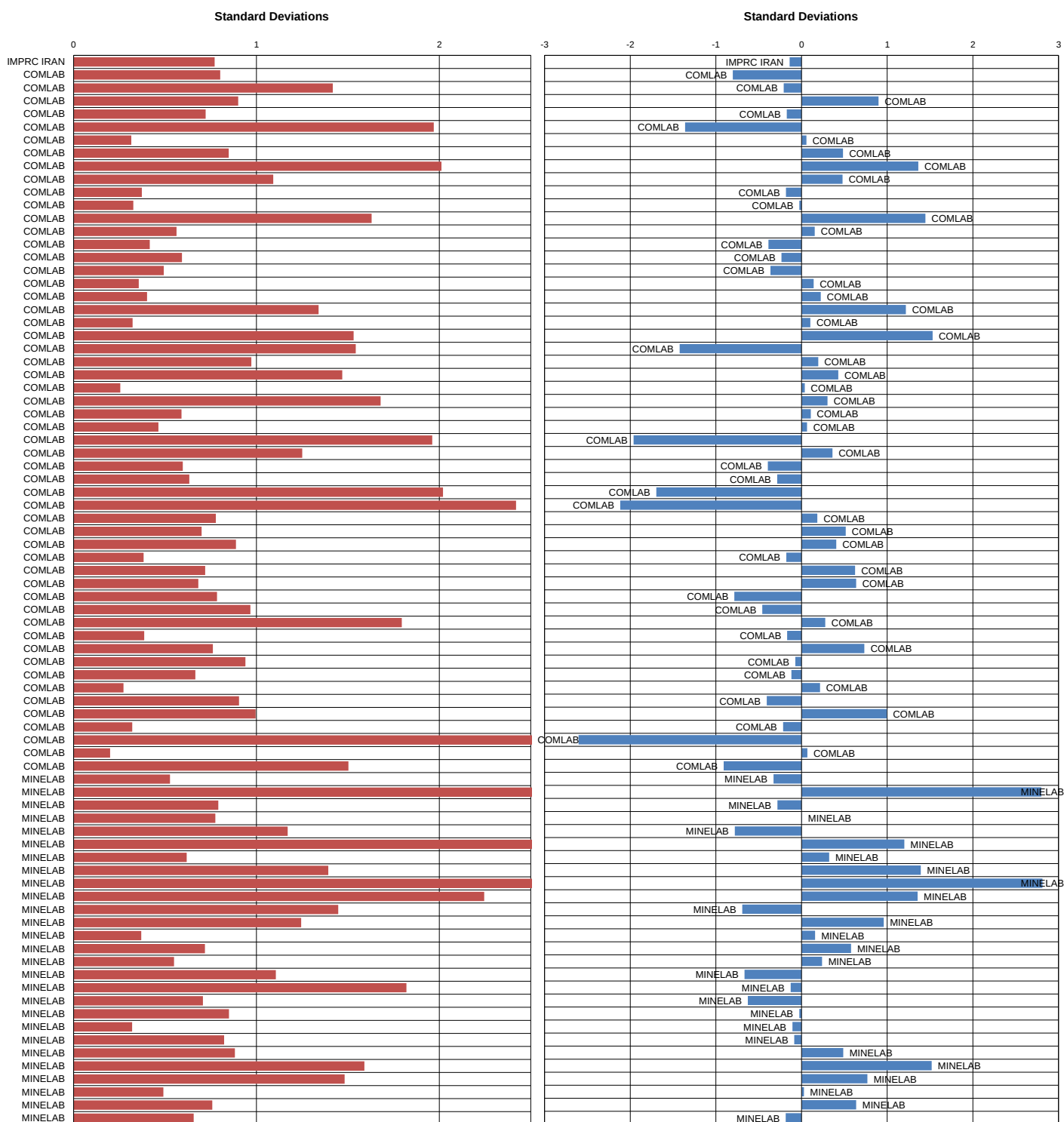
Standard Reference	GS322-1	GS322-2	GS322-3	GS322-4	GS322-5	GS322-6	GS322-7	GS322-8	GS322-9	GS322-10	Method	Reading
Lab Reference	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score
IMPRC IRAN	0.19	-1.36	0.63	-2.25	0.68	-0.57	0.23	-0.41	0.58	2.12	0.61	-0.11
COMLAB	0.20	-0.75	0.66	-1.02	0.66	-1.39	0.23	-0.41	0.53	0.27	0.58	-0.96
COMLAB	0.22	0.48	0.70	0.62	0.71	0.65	0.24	0.09	0.53	0.27	0.64	0.74
COMLAB	0.15	-3.00	0.64	-1.84	0.64	-2.20	0.19	-2.43	0.48	-1.57	0.57	-1.25
COMLAB	0.21	-0.38	0.68	-0.32	0.68	-0.61	0.29	2.57	0.55	0.95	-1.96	1.15
COMLAB	0.22	0.48	0.69	0.21	0.70	0.24	0.25	0.60	0.53	0.27	0.61	-0.11
COMLAB	0.19	-1.36	0.66	-1.02	0.66	-1.39	0.21	-1.42	0.50	-0.84	0.59	-0.68
COMLAB	0.20	-0.75	0.66	-1.02	0.67	-0.98	0.22	-0.92	0.47	-1.94	0.55	-1.81
COMLAB	0.21	-0.14	0.68	-0.20	0.69	-0.16	0.23	-0.41	0.52	-0.10	0.64	0.74
COMLAB	0.17	-2.58	0.89	3.00	0.91	3.00	0.22	-0.92	0.76	3.00	0.82	3.00
COMLAB	0.21	-0.14	0.65	-1.43	0.67	-0.98	0.22	-0.92	0.51	-0.47	0.59	-0.68
COMLAB	0.22	0.48	0.68	-0.20	0.71	0.65	0.23	-0.41	0.51	-0.47	0.60	-0.39
COMLAB	0.17	-2.58	0.64	-1.84	0.63	-2.61	0.20	-1.93	0.48	-1.57	0.62	0.17
COMLAB	0.21	-0.14	0.67	-0.61	0.66	-1.39	0.23	-0.41	0.52	-0.10	0.63	0.46
COMLAB	0.18	-1.97	0.70	0.62	0.70	0.24	0.22	-0.92	0.54	0.64	0.62	0.17
COMLAB	0.22	0.48	0.67	-0.61	0.68	-0.57	0.24	0.09	0.52	-0.10	0.54	-2.10
COMLAB	0.21	-0.14	0.69	0.21	0.69	-0.16	0.24	0.09	0.52	-0.10	0.59	-0.68
COMLAB	0.20	-0.75	0.69	0.21	0.67	-0.98	0.23	-0.41	0.53	0.27	0.57	-1.25
COMLAB	0.20	-0.75	0.66	-1.02	0.68	-0.57	0.23	-0.41	0.52	-0.10	0.60	-0.39
COMLAB	0.21	-0.14	0.68	-0.20	0.67	-0.98	0.24	0.09	0.52	-0.10	0.57	-1.25
COMLAB	0.20	-0.75	0.67	-0.61	0.72	1.06	0.23	-0.41	0.50	-0.84	0.61	-0.11
COMLAB	0.24	1.70	0.72	1.43	0.72	1.06	0.26	1.10	0.56	1.38	0.63	0.46
COMLAB	0.21	-0.14	0.72	1.43	0.75	2.28	0.25	0.60	0.52	-0.10	0.66	1.31
COMLAB	0.22	0.48	0.68	-0.20	0.68	-0.57	0.21	-1.42	0.55	1.01	0.63	0.46
COMLAB	0.19	-1.36	0.64	-1.84	0.65	-1.80	0.23	-0.41	0.48	-1.57	0.58	-0.96
COMLAB	0.20	-0.75	0.65	-1.43	0.66	-1.39	0.23	-0.41	0.51	-0.47	0.59	-0.68
COMLAB	0.24	1.70	0.76	3.00	0.75	2.28	0.27	1.61	0.56	1.38	0.68	1.88
COMLAB	0.24	1.70	0.67	-0.61	0.71	0.65	0.28	2.11	0.57	1.75	0.63	0.46
COMLAB	0.24	1.70	0.79	3.00	0.80	3.00	0.26	1.10	0.62	3.00	0.71	2.73
COMLAB	0.22	0.48	0.69	0.21	0.70	0.24	0.26	1.10	0.52	-0.10	0.64	0.74
COMLAB	0.22	0.48	0.68	-0.20	0.69	-0.16	0.23	-0.41	0.53	0.27	0.60	-0.39
COMLAB	0.23	1.09	0.37	-3.00	0.43	-3.00	0.11	-3.00	0.70	3.00	0.69	2.16
COMLAB	0.20	-0.75	0.66	-1.02	0.69	-0.16	0.23	-0.41	0.46	-2.31	0.61	-0.11
COMLAB	0.21	-0.14	0.67	-0.61	0.69	-0.16	0.24	0.09	0.53	0.27	0.59	-0.68
COMLAB	0.23	1.09	0.71	1.02	0.71	0.65	0.26	1.10	0.56	1.38	0.64	0.74
COMLAB	0.15	-3.00	0.66	-1.02	0.67	-0.98	0.16	-3.00	0.52	-0.10	0.58	-0.96
COMLAB	0.22	0.48	0.69	0.21	0.69	-0.16	0.25	0.60	0.51	-0.47	0.60	-0.39
COMLAB	0.23	1.09	0.69	0.21	0.70	0.24	0.26	1.10	0.54	0.64	0.61	-0.11
COMLAB	0.20	-0.75	0.67	-0.61	0.67	-0.98	0.23	-0.41	0.53	0.27	0.60	-0.39
COMLAB	0.21	-0.14	0.71	1.02	0.70	0.24	0.25	0.60	0.47	-1.94	0.68	1.88
COMLAB	0.21	-0.14	0.69	0.21	0.70	0.24	0.25	0.60	0.54	0.64	0.61	-0.11
COMLAB	0.23	1.09	0.64	-1.84	0.67	-0.98	0.23	-0.41	0.51	-0.47	0.58	-0.96
COMLAB	0.21	-0.14	0.67	-0.61	0.69	-0.16	0.24	0.09	0.54	0.64	0.60	-0.39
COMLAB	0.18	-1.97	0.71	1.02	0.72	1.06	0.22	-0.92	0.54	0.64	0.62	0.17
COMLAB	0.22	0.48	0.71	1.02	0.73	1.47	0.24	0.09	0.55	1.01	0.64	0.74
COMLAB	0.22	0.48	0.71	1.02	0.73	1.47	0.26	1.10	0.55	1.01	0.64	0.74
COMLAB	0.21	-0.14	0.70	0.62	0.70	0.24	0.23	-0.41	0.57	1.75	0.65	1.03
COMLAB	0.21	-0.14	0.71	1.02	0.71	0.65	0.24	0.09	0.52	-0.10	0.62	0.17
COMLAB	0.23	1.09	0.70	0.62	0.72	1.06	0.25	0.60	0.58	2.12	0.65	1.03
COMLAB	0.20	-0.75	0.69	0.21	0.69	-0.16	0.24	0.09	0.47	-1.94	0.62	0.17
COMLAB	0.17	-2.58	0.66	-1.02	0.69	-0.16	0.19	-2.43	0.48	-1.57	0.62	0.17
COMLAB	0.22	0.48	0.73	1.84	0.72	1.06	0.25	0.60	0.53	0.27	0.63	0.46
COMLAB	0.22	0.48	0.71	1.02	0.71	0.65	0.26	1.10	0.53	0.27	0.63	0.46
COMLAB	0.22	0.48	0.72	1.43	0.72	1.06	0.23	-0.41	0.51	-0.47	0.63	0.46
COMLAB	0.22	0.17	0.69	0.04	0.69	0.00	0.24	0.04	0.53	0.09	0.61	-0.25
COMLAB	0.20	-0.81	0.67	-0.45	0.68	-0.78	0.23	-0.61	0.53	0.23	0.59	-0.59
COMLAB	0.25	2.37	0.84	3.00	0.86	3.00	0.29	2.77	0.68	3.00	0.77	3.00
COMLAB	0.21	-0.14	0.70	0.62	0.70	0.24	0.25	0.60	0.53	0.27	0.62	0.17
COMLAB	0.21	-0.26	0.71	1.11	0.67	-1.10	0.24	-0.01	0.52	-0.28	0.61	0.00
COMLAB	0.20	-0.75	0.66	-0.86	0.69	-0.04	0.23	-0.56	0.51	-0.47	0.60	-0.28
COMLAB	0.22	0.29	0.69	0.25	0.68	-0.53	0.24	-0.11	0.54	0.64	0.66	1.28
COMLAB	0.22	0.48	0.64	-1.84	0.64	-2.20	0.25	0.60	0.50	-0.84	0.58	-0.96
COMLAB	0.22	0.48	0.69	0.21	0.70	0.24	0.23	-0.41	0.54	0.64	0.60	-0.39
COMLAB	0.20	-0.75	0.67	-0.61	0.69	-0.16	0.21	-1.42	0.76	3.00	0.55	-1.81
COMLAB	0.22	0.48	0.74	2.25	0.71	0.65	0.25	0.60	0.55	1.01	0.66	1.31
COMLAB	0.22	0.48	0.68	-0.20	0.68	-0.57	0.25	0.60	0.52	-0.10	0.59	-0.68
COMLAB	0.25	2.31	0.63	-2.25	0.66	-1.39	0.28	2.11	0.52	-0.10	0.58	-0.96
MINELAB	0.23	1.09	0.69	0.21	0.70	0.24	0.22	-0.92	0.49	-1.20	0.60	-0.39
MINELAB	0.21	-0.14	0.68	-0.20	0.70	0.24	0.25	0.60	0.51	-0.47	0.60	-0.39
MINELAB	0.10	-3.00	0.60	-3.00	0.69	-0.16	0.13	-3.00	0.42	-3.00	0.53	-2.38
MINELAB	0.21	-0.14	0.68	-0.20	0.70	0.24	0.24	0.09	0.53	0.27	0.62	0.17
MINELAB	0.21	-0.14	0.68	-0.20	0.67	-0.98	0.24	0.09	0.49	-1.20	0.61	-0.11
MINELAB	0.20	-0.75	0.67	-0.61	0.69	-0.16	0.23	-0.41	0.57	1.75	0.59	-0.68
MINELAB	0.23	1.09	0.36	-3.00	0.49	-3.00	0.24	0.09	0.31	-3.00	0.44	-3.00
MINELAB	0.14	-3.00	1.35	3.00	0.50	-3.00	1.25	3.00	0.04	-3.00	0.02	-3.00
MINELAB	0.25	2.31	0.69	0.37	0.70	0.16	0.28	2.01	0.48	-1.43	0.61	-0.22
MINELAB	0.21	-0.14	0.70	0.62	0.70	0.24	0.24	0.09	0.53	0.27	0.62	0.17
MINELAB	0.20	-0.75	0.64	-1.84	0.82	3.00	0.73	3.00	0.63	3.00	0.95	3.00
MINELAB	0.41	3.00	0.95	3.00	0.98	3.00	0.56	3.00	0.86	3.00	0.88	3.00
MINELAB	0.14	-3.00	0.56	-3.00	0.58	-3.00	0.11	-3.00	0.45	-2.68	0.56	-1.53
MINELAB	0.21	-0.14	0.65	-1.43	0.66	-1.39	0.21	-1.42	0.51	-0.47	0.58	-0.96
MINELAB	0.21	-0.14	0.71	1.02	0.72	1.06	0.23	-0.41	0.53	0.27	0.62	0.17
MINELAB	0.18	-1.97	0.65	-1.43	0.68	-0.57	0.22	-0.92	0.51	-0.47	0.57	-1.25
MINELAB	0.14	-3.00	0.58	-3.00	0.59	-3.00	0.20	-1.93	0.42	-3.00	0.49	-3.00
MINELAB	0.29	3.00	0.71	1.02	0.66	-1.39	0.33	3.00	0.50	-0.84	0.65	1.03
MINELAB	0.20	-0.75	0.70	0.62	0.70	0.24	0.24	0.09	0.51	-0.47	0.61	-0.11
MINELAB	0.21	-0.14	0.70	0.62	0.72	1.06	0.23	-0.41	0.48	-1.57	0.61	-0.11
MINELAB	0.22	0.48	0.72	1.43	0.72	1.06	0.26	1.10	0.53	0.27	0.63	0.46
MINELAB	0.22	0.48	0.71	1.02	0.72	1.06	0.24	0.09	0.56	1.38	0.63	0.46
MINELAB	0.20	-0.75	0.67	-0.61	0.68	-0.57	0.23	-0.41	0.51	-0.47	0.60	-0.39
MINELAB	0.20	-0.75	0.67	-0.61	0.7							



Carbon Round Robin - Summary Statistics, Assays, Standardised Values and Graphs - April 2022

Standard Reference	GS322-1	GS322-2	GS322-3	GS322-4	GS322-5	GS322-6	GS322-7	GS322-8	GS322-9	GS322-10
MEAN (%)	0.18	1.46	0.57	1.35	0.05	0.03	2.71	0.51	0.05	2.89
STDEV (%)	0.02	0.05	0.02	0.05	0.02	0.01	0.10	0.03	0.01	0.07
95% CI (%)	0.00	0.01	0.00	0.01	0.00	0.00	0.02	0.01	0.00	0.02
95% CI (rel %)	2.42%	0.75%	0.82%	0.81%	7.33%	9.96%	0.83%	1.26%	6.40%	0.61%
MIN (%)	0.14	1.35	0.52	1.23	0.01	0.01	2.47	0.44	0.02	2.70
MEDIAN (%)	0.18	1.46	0.57	1.35	0.05	0.03	2.71	0.51	0.05	2.89
MAX (%)	0.22	1.57	0.61	1.48	0.08	0.07	2.96	0.57	0.09	3.06
IQR (%)	0.02	0.06	0.02	0.05	0.02	0.02	0.08	0.03	0.02	0.09
COUNT	70	68	65	70	70	67	73	66	70	70

Standard Reference	GS322-1		GS322-2		GS322-3		GS322-4		GS322-5		GS322-6		GS322-7		GS322-8		GS322-9		GS322-10		Method	Reading	
Lab Reference	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score	assay	z-score			
IMPRC IRAN	<0.20	bld	1.50	0.87	0.54	-1.64	1.36	0.16	<0.20	bld	<0.20	bld	2.70	-0.10	0.48	-0.99	<0.20	bld	2.95	0.87	CSA	IR	
COMLAB	0.16	-1.04	1.44	-0.44	0.56	-0.60	1.33	-0.48	0.03	-1.26	0.01	-1.71	2.67	-0.41	0.49	-0.61	0.04	-0.99	2.85	-0.48	CSA	IR	
COMLAB	0.14	-2.13	1.52	1.31	0.37	-3.00	1.42	1.45	0.07	1.36	0.05	1.14	2.72	0.10	0.28	-3.00	0.06	0.35	2.91	0.33	CSA	IR	
COMLAB	0.20	1.14	1.46	-0.01	0.61	2.00	1.36	0.16	0.06	0.71	0.05	1.14	2.74	0.31	0.57	2.44	0.07	1.03	2.89	0.06	CSA	IR	
COMLAB	0.18	0.05	1.48	0.43	0.57	-0.08	1.35	-0.05	0.04	-0.60	0.05	1.14	2.82	1.13	0.45	-2.13	0.05	-0.32	2.79	-1.28	CSA	IR	
COMLAB	0.16	-1.04	1.25	-3.00	0.48	-3.00	1.15	-3.00	0.05	0.05	0.03	-0.29	2.34	-3.00	0.73	3.00	0.05	-0.32	2.49	-3.00			
COMLAB	0.19	0.59	1.45	-0.22	0.57	-0.08	1.34	-0.27	0.06	0.71	0.03	-0.29	2.73	0.20	0.50	-0.23	0.06	0.35	2.87	-0.21	CSA	IR	
COMLAB	0.21	1.68	1.50	0.87	0.60	1.48	1.40	1.02	0.04	-0.60	0.05	1.14	2.71	0.00	0.50	-0.23	0.04	-0.99	2.92	0.47	CSA	IR	
COMLAB	0.30	3.00	1.61	3.00	0.71	3.00	1.48	2.74	0.03	-1.26	0.02	-1.00	2.82	1.13	0.62	3.00	0.04	-0.99	2.96	1.00	CSA	IR	
COMLAB	0.17	-0.50	1.51	1.09	0.59	0.96	1.38	0.59	0.03	-1.26	0.02	-1.00	2.91	2.05	0.51	0.15	0.05	-0.32	3.11	3.00			
COMLAB	0.18	0.05	1.48	0.43	0.57	-0.08	1.37	0.38	0.04	-0.60	0.03	-0.29	2.72	0.10	0.49	-0.61	0.04	-0.99	2.87	-0.21			
COMLAB	0.19	0.59	1.43	-0.66	0.58	0.44	1.33	-0.48	0.05	0.05	0.03	-0.29	2.70	-0.10	0.50	-0.23	0.06	0.35	2.89	0.06	CSA	IR	
COMLAB	0.24	3.00	1.44	-0.44	0.63	3.00	1.41	1.23	0.06	0.71	0.06	1.85	2.73	0.20	0.60	3.00	0.09	2.38	2.85	-0.48	CSA	IR	
COMLAB	0.19	0.59	1.43	-0.66	0.58	0.44	1.34	-0.27	0.04	-0.60	0.03	-0.29	2.80	0.92	0.50	-0.23	0.06	0.35	2.98	1.27	CSA	IR	
COMLAB	0.18	0.05	1.46	-0.01	0.55	-1.12	1.34	-0.27	0.04	-0.60	0.02	-1.00	2.72	0.10	0.50	-0.23	0.05	-0.32	2.85	-0.48	CSA	IR	
COMLAB	0.17	-0.50	1.45	-0.22	0.55	-1.12	1.33	-0.48	0.04	-0.60	0.03	-0.29	2.80	0.92	0.49	-0.61	0.05	-0.32	2.95	0.87	CSA	IR	
COMLAB	0.17	-0.50	1.46	-0.01	0.56	-0.60	1.38	0.59	0.03	-1.26	0.02	-1.00	2.71	0.00	0.49	-0.61	0.05	-0.32	2.89	0.06	CSA	IR	
COMLAB	0.19	0.59	1.48	0.43	0.57	-0.08	1.33	-0.48	0.06	0.71	0.03	-0.29	2.73	0.20	0.50	-0.23	0.06	0.35	2.90	0.20	CSA	IR	
COMLAB	0.18	0.05	1.47	0.21	0.58	0.44	1.38	0.59	0.04	-0.60	0.03	-0.29	2.77	0.62	0.52	0.54	0.06	0.35	2.91	0.33	CSA	IR	
COMLAB	0.18	0.05	1.60	3.00	0.59	0.96	1.52	3.00	0.05	0.05	0.03	-0.29	2.96	2.57	0.51	0.15	0.05	-0.32	3.17	3.00			
COMLAB	0.17	-0.50	1.48	0.43	0.58	0.44	1.37	0.38	0.05	0.05	0.03	-0.29	2.73	0.20	0.51	0.15	0.05	-0.32	2.92	0.47	CSA	IR	
COMLAB	0.22	2.23	1.46	-0.01	0.60	1.48	1.38	0.59	0.08	2.02	0.06	1.85	2.84	1.33	0.56	2.06	0.10	3.00	2.94	0.73	CSA	IR	
COMLAB	0.14	-2.13	1.37	-1.97	0.52	-2.68	1.24	-2.42	0.03	-1.26	0.02	-1.00	2.64	-0.72	0.48	-0.99	0.03	-1.67	2.93	0.60	CSA	IR	
COMLAB	0.17	-0.50	1.42	-0.88	0.57	-0.08	1.32	-0.70	0.07	1.36	0.06	1.85	2.64	-0.72	0.53	0.92	0.08	1.70	2.81	-1.01	CSA	IR	
COMLAB	0.24	3.00	1.42	-0.88	0.59	0.96	1.32	-0.70	0.08	2.02	0.08	3.00	2.60	-1.13	0.51	0.15	0.06	0.35	2.70	-2.49	CSA	IR	
COMLAB	0.18	0.05	1.45	-0.22	0.58	0.44	1.35	-0.05	0.05	0.05	0.03	-0.29	2.71	0.00	0.53	0.92	0.05	-0.32	2.87	-0.21	CSA	IR	
COMLAB	0.18	0.05	1.19	-3.00	0.59	0.96	1.58	3.00	0.05	0.05	0.05	1.14	2.19	-3.00	0.65	3.00	0.08	1.70	2.82	-0.88	CSA	IR	
COMLAB	0.17	-0.50	1.49	0.65	0.59	0.96	1.40	1.02	0.04	-0.60	0.02	-1.00	2.72	0.10	0.51	0.15	0.05	-0.32	2.93	0.60	CSA	IR	
COMLAB	0.19	0.59	1.44	-0.44	0.57	-0.08	1.33	-0.48	0.05	0.05	0.04	0.43	2.66	-0.51	0.52	0.54	0.07	1.03	2.85	-0.48	CSA	IR	
COMLAB	0.12	-3.00	1.38	-1.75	0.50	-3.00	1.28	-1.56	-0.08	bld	bld	-0.08	bld	2.65	-0.62	0.44	-2.52	-0.08	bld	2.79	-1.28	CSA	IR
COMLAB	0.18	0.05	1.53	1.52	0.59	0.96	1.42	1.45	0.07	1.36	0.05	1.14	2.52	-1.95	0.52	0.54	0.07	1.03	2.70	-2.49	CSA	IR	
COMLAB	0.18	0.05	1.48	0.43	0.57	-0.08	1.33	-0.48	0.04	-0.60	0.02	-1.00	2.66	-0.51	0.52	0.54	0.04	-0.99	2.79	-1.28	CSA	IR	
COMLAB	0.15	-1.58	1.49	0.65	0.58	0.44	1.36	0.16	0.04	-0.60	0.02	-1.00	2.67	-0.41	0.51	0.15	0.04	-0.99	2.91	0.33	CSA	IR	
COMLAB	0.19	0.59	1.31	-3.00	0.50	-3.00	1.23	-2.63	0.02	-1.91	0.03	-0.29	2.41	-3.00	0.46	-1.75	0.07	1.03	2.62	-3.00			
COMLAB	0.12	-3.00	1.16	-3.00	0.51	-3.00	1.11	-3.00	0.07	1.36	-0.01	bld	2.35	-3.00	0.34	-3.00	0.04	-0.99	2.78	-1.42	CSA	IR	
COMLAB	0.19	0.59	1.49	0.65	0.55	-1.12	1.43	1.66	0.05	0.05	0.03	-0.29	2.89	1.85	0.50	-0.23	0.04	-0.99	2.86	-0.34	CSA	IR	
COMLAB	0.20	1.14	1.47	0.21	0.60	1.48	1.36	0.16	0.06	0.71	0.04	0.43	2.68	-0.31	0.53	0.92	0.07	1.03	2.84	-0.61	CSA	IR	
COMLAB	0.17	-0.50	1.52	1.31	0.58	0.44	1.41	1.23	0.04	-0.60	0.02	-1.00	2.91	2.05	0.51	0.15	0.05	-0.32	2.98	1.27	CSA	IR	
COMLAB	0.18	0.05	1.46	-0.01	0.58	0.44	1.35	-0.05	0.04	-0.60	0.03	-0.29	2.62	-0.92	0.52	0.54	0.05	-0.32	2.84	-0.61	CSA	IR	
COMLAB	0.20	1.14	1.50	0.87	0.60	1.48	1.40	1.02	<0.10	bld	<0.10	bld	2.70	-0.10	0.50	-0.23	<0.10	bld	2.90	0.20			
COMLAB	0.19	0.59	1.45	-0.22	0.58	0.44	1.37	0.38	0.07	1.36	0.05	1.14	2.71	0.00	0.53	0.92	0.08	1.70	2.89	0.06	CSA	IR	
COMLAB	0.17	-0.50	1.39	-1.53	0.56	-0.60	1.32	-0.70	<0.01	bld	<0.01	bld	2.68	-0.31	0.50	-0.23	0.03	-1.67	2.83	-0.75	CSA	IR	
COMLAB	0.16	-1.04	1.47	0.21	0.55	-1.12	1.35	-0.05	0.03	-1.26	0.02	-1.00	2.80	0.92	0.48	-0.99	0.03	-1.67	2.99	1.41	CSA	IR	
COMLAB	0.12	-3.00	1.40	-1.32	0.58	0.44	1.30	-1.13	0.11	3.00	0.09	3.00	2.60	-1.13	0.53	0.99	0.11	3.00	2.81	-1.01	CSA	IR	
COMLAB	0.19	0.59	1.43	-0.66	0.58	0.44	1.33	-0.48	0.05	0.05	0.03	-0.29	2.69	-0.21	0.49	-0.61	0.05	-0.32	2.87	-0.21	CSA	IR	
COMLAB	0.21	1.85	1.50	0.87	0.60	1.59	1.40	1.02	0.05	0.25	0.03	-0.14	2.73	0.20	0.54	1.15	0.06	0.35	2.90	0.20	CSA	IR	
COMLAB	0.15	-1.75	1.51	1.09	0.58	0.60	1.40	1.02	0.03	-1.12	0.02	-0.93	2.76	0.51	0.52	0.38	0.04	-1.26	2.94	0.73	CSA	IR	
COMLAB	0.17	-0.50	1.43	-0.66	0.54	-1.64	1.30	-1.13	0.05	0.05	0.04	0.43	2.73	0.20	0.51	0.15	0.06	0.35	3.00	1.54	CSA	IR	
COMLAB	0.17	-0.28	1.46	-0.01	0.58	0.18	1.37	0.38	0.05	0.19	0.04	0.07	2.76	0.51	0.52	0.50	0.06	0.02	2.93	0.60	CSA	IR	
COMLAB	0.16	-1.15	1.49	0.58	0.55	-1.33	1.38	0.63	0.04	-0.73	0.02	-0.86	2.59	-1.28	0.50	-0.42	0.04	-0.79	2.98	1.27	CSA	IR	
COMLAB	0.19	0.59	1.53	1.52	0.60	1.48	1.39	0.80	0.07	1.36	0.05	1.14	2.71	0.00	0.55	1.68	0.07	1.03	2.91	0.33	CSA	IR	
COMLAB	0.18	0.05	1.43	-0.66	0.57	-0.08	1.32	-0.70	0.05	0.05	0.04	0.43	2.70	-0.10	0.49	-0.61	0.05	-0.32	2.87	-0.21	CSA	IR	
COMLAB	0.14	-2.13	1.25	-3.00	0.48	-3.00	1.1																



BV ONTARIO - NEUTRON ACTIVATION ANALYSIS REPORT

NAA Results - Gold and Base Metals

		G322-1	G322-2	G322-3	G322-4	G322-5	G322-6	G322-7	G322-8	G322-9	G322-10	GLG322-1	GLG322-2	GLG322-3	GLG322-4	GLG322-5	GBM322-1	GBM322-2	GBM322-3	GBM322-4	GBM322-5	GBM322-6	GBM322-7	GBM322-8	GBM322-9	GBM322-10	GBM322-11	GBM322-12	GBM322-13	GBM322-14	GBM322-15	GBM322-16	
Sb	ppm	0.2	<0.2	<0.2	2.2	0.7	0.7	<0.2	0.8	7.3	0.5	0.2	<0.2	<0.2	<0.2	0.7	0.2	3	18.9	24.9	19.2	12.9	7.2	31.9	82.5	34.2	3.1	308	1.3	131	10.5	2.5	
As	ppm	2.8	<0.5	<0.5	1.1	0.6	0.6	<0.5	1.3	55	506	2.2	<0.5	0.7	0.5	5.3	2.7	45	145	170	3400	245	177	760	945	790	45.3	567	49.8	391	78.1	47.9	
Ba	ppm	199	360	399	<50	43	134	545	1710	73	112	179	403	246	<50	333	176	218	203	219	248	179	323	871	448	268	183	150	442	452	111	129	
Br	ppm	<2	<2	<2	<2	<2	<2	<2	<2	<2	11	<2	<2	<2	<2	2	<2	<2	3	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	9	
Cd	ppm	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	25	<10	<10	<10	<10	<10	23	73	<10	
Ce	ppm	45	32	39	9	14	13	44	154	<5	76	34	38	37	<5	47	35	34	20	34	21	49	36	42	36	31	41	26	61	34	<5	17	
Cs	ppm	7	<2	2	46	43	56	3	2	18	<2	6	2	<2	11	2	7	7	12	5	6	6	6	5	5	2	7	3	2	<2	<2	<2	
Cr	ppm	58	109	105	35	75	48	68	43	36	7040	66	87	113	10	94	70	45	83	34	38	30	96	1030	264	1950	44	74	38	119	<10	3020	
Co	ppm	14	25	23	7	18	18	14	24	20	62	13	25	34	<5	10	14	2080	51	27	15	26	24	175	51	56	2050	40	44	45	11	1120	
Eu	ppm	<0.5	1.5	1.1	<0.5	0.7	0.6	1.2	2.5	<0.5	0.8	1.3	1.2	1.8	<0.5	0.8	0.7	0.7	0.9	0.735	1.1	0.8	0.7	0.9	1	0.6	0.6	1.2	0.9	1.2	<0.5	<0.5	
Au	ppb	320	670	320	2550	1240	1780	420	1150	4500	4010	300	212	210	11	29	309	12	2890	31	143	22	325	7220	2000	4590	12	283	1470	492	1460	814	
Hf	ppm	<5	<5	<5	<5	<5	<5	<5	8	11	<5	<5	<5	<5	5	6	<5	<5	<5	<5	<5	5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	
Ir	ppb	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	1170	
Fe	%	3.6	5.8	5.3	2.6	4.1	3.8	4.3	6.8	4.2	21.8	3.5	5.6	8.5	<0.2	6	3.5	3.6	9.5	5	3.4	4.9	5.8	9.2	5.4	5.4	3.6	4	24	6.4	4.8	6.1	
La	ppm	21	19	20	3	5	5	25	84	4	16	20	21	16	<2	19	20	20	8	19	21	26	17	25	21	14	20	14	38	19	2	4	
Lu	ppm	0.2	0.4	0.4	0.2	0.3	0.2	0.4	0.7	0.3	0.4	0.2	0.4	0.5	<0.2	0.4	0.2	0.3	0.5	0.3	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.4	0.2	0.5
Mo	ppm	13	<10	<10	<10	<10	13	17	<10	<10	<10	14	<10	<10	<10	10	13	<10	<10	<10	<10	<10	<10	11	<10	10	<10	<10	128	74	<10	<10	
Ni	ppm	45	29	24	<20	<20	<20	<20	32	66	651	40	30	36	<20	<20	48	33	180	32	20	31	60	2150	1760	265	38	74	240	45	230	19600	
Rb	ppm	143	78	99	1360	1350	1350	133	78	469	16	142	101	32	383	125	150	84	69	95	92	52	108	63	102	35	82	57	88	92	32	<20	
Sm	ppm	3.2	4.8	4.6	1.2	2.4	2.4	4.6	12.1	1.6	4	3.2	4.8	5.7	<0.2	3.5	3.2	3.5	3.8	3.4	3.7	4	3.3	4	3.9	3	3.5	2.8	4.2	4.7	0.9	0.6	
Sc	ppm	10.4	21.1	19.3	6.3	14.3	14.1	14.4	19	15.6	94.7	9.6	20.9	29.4	<0.2	12.5	9.8	9.7	36.4	10.5	9.5	12.8	12.9	13.1	12.9	18.5	9.8	11.5	3.6	21.5	17.3	9.5	
Se	ppm	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	17	<10	<10	<10	
Ag	ppm	<5	7	<5	<5	<5	8	5	9	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	7.5	<5	<5	<5	<5	20	<5	18	29	54	
Na	%	3.14	2.26	2.4	1.17	1.76	1.48	2.63	2.53	1.31	0.36	2.84	2.44	2.14	0.47	1.93	2.93	0.91	1.47	1.09	0.48	1.45	0.42	0.64	0.94	0.71	0.88	0.37	1.65	2.34	0.96	0.76	
Ta	ppm	<2	<2	<2	<2	<2	<2	2	<2	<2	<2	<2	<2	<2	<2	2	<2	<2	<2	<2	<2	<2	<2	<2	2	<2	<2	<2	<2	<2	<2	<2	
Te	ppm	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	
Tb	ppm	<1	1	1	<1	1	1	1	2	<1	1	1	1	1	<1	1	<1	1	1	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	1	<1	<1	
Th	ppm	7.8	11.2	12.2	0.5	0.5	0.6	17.6	27.1	0.7	18.2	7.3	14.3	6.1	<0.5	32.2	7.8	5.7	1.1	4.6	6.5	5.9	4.7	6.9	8.4	3.5	5.6	4.1	5.2	12.3	<0.5	2.4	
Sn	ppm	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	376	
W	ppm	42	<2	<2	<2	<2	<2	<2	<2	19	7	41	<2	<2	<2	<2	44	4	39	4	7	2	3	19	16	42	2	<2	28	<2	<2	<2	
U	ppm	3	6	7	<1	<1	<1	9	4	1	10	3	7	3	1	11	2	1	<1	1	1	2	1	2	3	1	1	3	6	6	<1	2	
Yb	ppm	1.2	2.9	2.7	0.7	1.3	1.3	2.6	4.6	1.4	2.5	1.2	2.8	3.2	<0.5	2.4	1.1	1.9	3	1.6	2	1.8	1.7	1.7	1.6	1.8	1.9	1.4	1.1	2.7	1.1	<0.5	
Zn	ppm	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	13600	<200	<200	<200	<200	890	7150	670	820	13600	400	630	10400	8880	1250	
Zr	ppm	<500	<500	<500	<500	<500	<500	<500	<500	<500	<500	<500	<500	<500	<500	<500	<500	<500	<500	<500	<500	<500	<500	<500	<500	<500	<500	<500	<500	<500	<500	<500	

SUMMARY REPORT OF INDIVIDUAL LABORATORY PERFORMANCE
Iran Mineral Processing Research Center (IMPRC)

GOLD SAMPLES

Analysis	Samples Sent	Reported	Number of Outliers
Fire Assay	Yes (10)	Yes	0
Aqua Regia	No	-	-
Low Level	Yes (5)	No	-

Au & Ag IN CARBON SAMPLES

The laboratory were not sent any samples for Au & Ag in carbon analysis.

Analysis	Reported	Number of Outliers
Gold	-	-
Silver	-	-

BASE METAL SAMPLES

10 Base Metal samples were sent to the laboratory for analysis by Total and / or Partial methods.

Analysis	Total Digest		Partial Digest	
	Reported	Number of Outliers	Reported	Number of Outliers
Silver	Yes	2	No	-
Copper	Yes	0	No	-
Lead	Yes	1	No	-
Zinc	Yes	0	No	-
Nickel	Yes	0	No	-
Arsenic	Yes	1	No	-
Cobalt	Yes	0	No	-

ORE GRADE BASE METAL SAMPLES

6 Ore Grade Base Metal samples were sent to the laboratory for analysis.

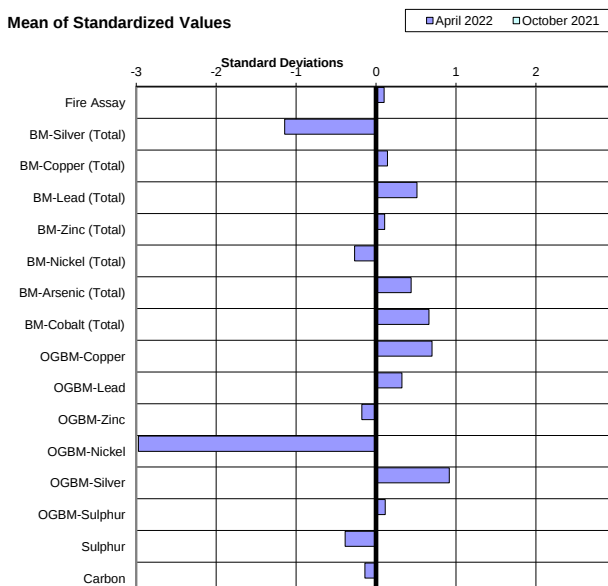
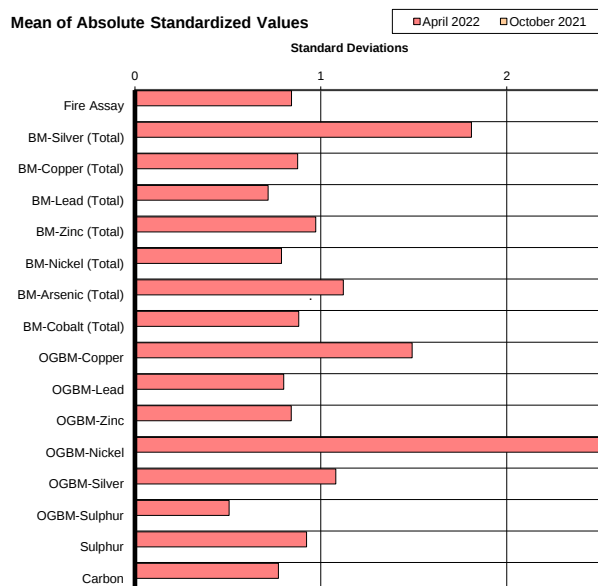
Analysis	Reported	Number of Outliers
Copper	Yes	1
Lead	Yes	0
Zinc	Yes	0
Nickel	Yes	0
Silver	Yes	0
Sulphur	Yes	0

SULPHUR SAMPLES

10 Sulphur samples were sent to the laboratory for analysis.

Analysis	Reported	Number of Outliers
Sulphur	Yes	0
Carbon	Yes	0

ERROR GRAPHS



FURTHER INFORMATION

The samples analysed in this survey are available for purchase. Please contact us or visit www.geostats.com.au for a complete listing of available materials.

To discuss this report, please contact us on +618 9314 2566, or srr@geostats.com.au