

RESL CUSTOMER EXPORT CONTROL AGREEMENT

It is the Radiological and Environmental Sciences Laboratory's (RESL) policy to conduct business in accordance with all applicable U.S. export control laws and regulations. It is also RESL's policy that its Customers comply with U.S. export control laws and regulations. Therefore, Customer agrees to the following:

1. Because products, technical data, and technical assistance (i.e., services) provided to Customer by RESL may be subject to U.S. export control laws and regulations, (i) transactions with certain persons and companies and (ii) the export or reexport of certain types and levels of products, technical data, and services are prohibited or restricted.
2. Customer acknowledges that it is responsible for its own compliance with U.S. export control laws and regulations. Customer further agrees that it assumes the responsibility to obtain all necessary U.S. export licenses or other U.S. governmental authorizations, as well as all liability for the failure to do so.
3. Customer acknowledges that export control requirements may change and that the export or reexport of RESL products, technical data, and services without an export license or other appropriate governmental authorization may result in criminal and/or civil liability.
4. The obligations and requirements described herein shall survive the expiration or termination of any agreement or contract between RESL and Customer.

MaSU46 Participating Laboratories

Lab Code	Lab Name	Matrix Code
ERCL01	Washington State Public Health Laboratories	MaU
GENE01	GEL Laboratories, LLC	MaU
HCAL01	Lawrence Livermore National Laboratory	MaU
HPAL01	Los Alamos National Laboratory	MaU
IDGR01	Oak Ridge National Laboratory-Internal Dosimetry Group	MaU
LANL01	Los Alamos National Laboratory	MaU
RQCT01	Radiobioassay Quality Control Testing	MaU
SEML01	SRS Environmental Monitoring Laboratory	MaU
TELE01	Teledyne Brown Engineering - Environmental Services	MaU
WIPP01	WIPP Laboratories	MaU
WSHL01	Wisconsin State Laboratory of Hygiene	MaU

Laboratories Not Reporting

Lab Code	Lab Name	Matrix Code
ANLB01	Argonne National Laboratory	MaU
TELE02	ATI Environmental, Inc., Midwest Lab	MaU

Study Reference Values

MAPEP-22-MaSU46

Radiological Reference Date: 02/01/2022

Analyte	Ref Value	Ref Unc
Mass	Units: (ng/L)	
Uranium-235	4.14	0.09
Uranium-238	828	18
Uranium-Total	832	13

Analyte	Ref Value	Ref Unc
Radiological	Units: (Bq/L)	
Americium-241	0.0018	0.0016
Cesium-134	1.77	0.04
Cesium-137	1.56	0.03
Cobalt-57	5.39	0.14
Cobalt-60	2.06	0.05
Manganese-54	5.08	0.13
Nickel-63	6.44	0.14
Plutonium-238	0.0042	0.0006
Plutonium-239/240	0.291	0.007
Strontium-90	1.26	0.03
Uranium-234	0.0074	0.0007
Uranium-238	0.0103	0.0002
Zinc-65	4.48	0.11

Sample Statistical Summary

MAPEP-22-MaSU46

Radiological Reference Date: 02/01/2022

Analyte	T(1)	A(2)	Grand(3) Mean	Std Dev	Ref Value	Ref Unc	Acceptance Range
							Units: (ng/L)
Uranium-235	3	2			4.14	0.09	2.90 - 5.38
Uranium-238	2	1			828	18	580 - 1076
Uranium-Total	2	1			832	13	582 - 1082

Analyte	T(1)	A(2)	Grand(3) Mean	Std Dev	Ref Value	Ref Unc	Acceptance Range
							Units: (Bq/L)
Americium-241	8	8	0.0020	0.0007	0.0018	0.0016	Sensitivity Evaluation
Cesium-134	10	10	1.78	0.16	1.77	0.04	1.24 - 2.30
Cesium-137	10	10	1.73	0.15	1.56	0.03	1.09 - 2.03
Cobalt-57	10	10	5.61	0.45	5.39	0.14	3.77 - 7.01
Cobalt-60	10	10	2.18	0.08	2.06	0.05	1.44 - 2.68
Curium-244	5	5					False Positive Test
Manganese-54	10	10	5.41	0.39	5.08	0.13	3.56 - 6.60
Nickel-63	1	1			6.44	0.14	4.51 - 8.37
Plutonium-238	8	8	0.0040	0.0007	0.0042	0.0006	Sensitivity Evaluation
Plutonium-239/240	9	9	0.290	0.013	0.291	0.007	0.204 - 0.378
Strontium-90	6	5			1.26	0.03	0.88 - 1.64
Technetium-99	2	2					False Positive Test
Uranium-234	8	6	0.0069	0.0007	0.0074	0.0007	0.0052 - 0.0096
Uranium-238	8	7	0.0105	0.0007	0.0103	0.0002	0.0072 - 0.0134
Zinc-65	10	9	4.90	0.30	4.48	0.11	3.14 - 5.82

Note: (1) T = Total number of laboratories reporting analyte.
(2) A = Number of laboratories with 'Acceptable' performance.
(3) Mean excludes values indicated as "Not Acceptable".

Results Flags:

A = Result acceptable.....|Bias| <= 20%
W = Result acceptable with warning.....20% < |Bias| <= 30%
N = Result not acceptable.....|Bias| > 30%
RW = Report Warning
NR = Not Reported

Uncertainty Flags:

NOT ACCEPTABLE.....RP < 2%
ACCEPTABLE.....2% <= RP <= 15%
ACCEPTABLE WITH WARNING.....15% < RP <= 30%
NOT ACCEPTABLE.....RP > 30%
Relative Precision (RP) = (Reported Uncertainty / Reported Result) x 100

The MaSU46 sample contains 54 +/- 3 Bq/L of K-40.

Flag Summary Report

MAPEP-22-MaSU46

Mass

Analyte	A	W	RW	N
Uranium-235	2			1
Uranium-238	1			1
Uranium-Total	1			1

Radiological

Analyte	A	W	RW	N
Americium-241	8			
Cesium-134	10			
Cesium-137	9	1		
Cobalt-57	10			
Cobalt-60	10			
Curium-244	5			
Manganese-54	10			
Nickel-63	1			
Plutonium-238	8			
Plutonium-239/240	9			
Strontium-90	5			1
Technetium-99	2			
Uranium-234	6			2
Uranium-238	7			1
Zinc-65	8	1		1



Department of Energy RESL - 1955 Fremont Ave, MS4149 - Idaho Falls, ID 83415

Laboratory Results For MAPEP-22-MaSU46
 (ERCL01) Washington State Public Health Laboratories
 1610 N.E. 150th Street
 Shoreline, WA 98155-9701

Mass							Units: (ng/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Uranium-235	7.43	4.14	N		79.5	2.90 - 5.38	0.38	A
Uranium-238	3000	828	N		262.3	580 - 1076	2200	N
Uranium-Total	3000	832	N		260.6	582 - 1082	2200	N

Radiological							Units: (Bq/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	0.0037	0.0018	A	(17)		Sensitivity Evaluation	0.0040	
Cesium-134	1.85	1.77	A		4.5	1.24 - 2.30	0.11	A
Cesium-137	1.49	1.56	A		-4.5	1.09 - 2.03	0.13	A
Cobalt-57	5.29	5.39	A		-1.9	3.77 - 7.01	0.13	A
Cobalt-60	2.04	2.06	A		-1.0	1.44 - 2.68	0.10	A
Curium-244	-0.0001		A			False Positive Test	0.0012	
Manganese-54	5.22	5.08	A		2.8	3.56 - 6.60	0.19	A
Nickel-63	6.2	6.44	A		-3.7	4.51 - 8.37	1.0	W
Plutonium-238	0.0033	0.0042	A	(17)		Sensitivity Evaluation	0.0036	
Plutonium-239/240	0.307	0.291	A		5.5	0.204 - 0.378	0.036	A
Strontium-90	1.27	1.26	A		0.8	0.88 - 1.64	0.10	A
Technetium-99	0.37		A			False Positive Test	0.23	
Uranium-234	0.0133	0.0074	N		79.7	0.0052 - 0.0096	0.0045	N
Uranium-238	0.0111	0.0103	A		7.8	0.0072 - 0.0134	0.0042	N
Zinc-65	4.48	4.48	A		0.0	3.14 - 5.82	0.32	A

Radiological Reference Date: February 1, 2022

Results Flags:

- A = Result acceptable.....|Bias| <= 20%
- W = Result acceptable with warning.....20% < |Bias| <= 30%
- N = Result not acceptable.....|Bias| > 30%
- RW = Report Warning
- NR = Not Reported

Uncertainty Flags:

MAPEP-22-MaSU46 Combined Report

NOT ACCEPTABLE.....RP < 2%

ACCEPTABLE.....2% <= RP <= 15%

ACCEPTABLE WITH WARNING.....15% < RP <= 30%

NOT ACCEPTABLE.....RP > 30%

Relative Precision (RP) = (Reported Uncertainty / Reported Result) x 100

The MaSU46 sample contains 54 +/- 3 Bq/L of K-40.

Notes:

(17) = NOT DETECTED - reported a statistically zero result



Department of Energy RESL - 1955 Fremont Ave, MS4149 - Idaho Falls, ID 83415

Laboratory Results For MAPEP-22-MaSU46

(GENE01) GEL Laboratories, LLC

2040 Savage Road

Charleston, SC 29407

Mass							Units: (ng/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Uranium-235	NR	4.14				2.90 - 5.38		
Uranium-238	NR	828				580 - 1076		
Uranium-Total	NR	832				582 - 1082		

Radiological							Units: (Bq/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	0.00152	0.0018	A			Sensitivity Evaluation	0.00037	
Cesium-134	1.48	1.77	A		-16.4	1.24 - 2.30	0.250	W
Cesium-137	1.75	1.56	A		12.2	1.09 - 2.03	0.191	A
Cobalt-57	5.51	5.39	A		2.2	3.77 - 7.01	0.316	A
Cobalt-60	2.25	2.06	A		9.2	1.44 - 2.68	0.233	A
Curium-244	7.14E-05		A			False Positive Test	0.00016	
Manganese-54	4.84	5.08	A		-4.7	3.56 - 6.60	0.352	A
Nickel-63	NR	6.44				4.51 - 8.37		
Plutonium-238	0.00355	0.0042	A			Sensitivity Evaluation	0.00097	
Plutonium-239/240	0.2731	0.291	A		-6.2	0.204 - 0.378	0.0625	W
Strontium-90	1.430	1.26	A		13.5	0.88 - 1.64	0.0949	A
Technetium-99	-0.140		A			False Positive Test	0.137	
Uranium-234	0.00592	0.0074	A		-20.0	0.0052 - 0.0096	0.00104	W
Uranium-238	0.0102	0.0103	A		-1.0	0.0072 - 0.0134	0.00136	A
Zinc-65	5.08	4.48	A		13.4	3.14 - 5.82	0.525	A

Radiological Reference Date: February 1, 2022

Results Flags:

A = Result acceptable.....|Bias| <= 20%

W = Result acceptable with warning.....20% < |Bias| <= 30%

N = Result not acceptable.....|Bias| > 30%

RW = Report Warning

NR = Not Reported

Uncertainty Flags:

MAPEP-22-MaSU46 Combined Report

NOT ACCEPTABLE.....RP < 2%

ACCEPTABLE.....2% <= RP <= 15%

ACCEPTABLE WITH WARNING.....15% < RP <= 30%

NOT ACCEPTABLE.....RP > 30%

Relative Precision (RP) = (Reported Uncertainty / Reported Result) x 100

The MaSU46 sample contains 54 +/- 3 Bq/L of K-40.

Notes:

(17) = NOT DETECTED - reported a statistically zero result



Department of Energy RESL - 1955 Fremont Ave, MS4149 - Idaho Falls, ID 83415

Laboratory Results For MAPEP-22-MaSU46
 (HCAL01) Lawrence Livermore National Laboratory
 Analytical Services and Instrumentation Analytical Lab
 Livermore, CA 94550

Mass							Units: (ng/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Uranium-235	NR	4.14				2.90 - 5.38		
Uranium-238	NR	828				580 - 1076		
Uranium-Total	NR	832				582 - 1082		

Radiological							Units: (Bq/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	0.0019075	0.0018	A			Sensitivity Evaluation	0.000219	
Cesium-134	2.01	1.77	A		13.6	1.24 - 2.30	0.16	A
Cesium-137	1.67	1.56	A		7.1	1.09 - 2.03	0.25	A
Cobalt-57	6.42	5.39	A		19.1	3.77 - 7.01	0.51	A
Cobalt-60	2.25	2.06	A		9.2	1.44 - 2.68	0.17	A
Curium-244	0.0000364		A			False Positive Test	0.000041	
Manganese-54	5.94	5.08	A		16.9	3.56 - 6.60	0.31	A
Nickel-63	NR	6.44				4.51 - 8.37		
Plutonium-238	0.0041633	0.0042	A			Sensitivity Evaluation	0.000359	
Plutonium-239/240	0.2805000	0.291	A		-3.6	0.204 - 0.378	0.015591	A
Strontium-90	NR	1.26				0.88 - 1.64		
Technetium-99	NR					False Positive Test		
Uranium-234	NR	0.0074				0.0052 - 0.0096		
Uranium-238	NR	0.0103				0.0072 - 0.0134		
Zinc-65	4.98	4.48	A		11.2	3.14 - 5.82	0.51	A

Radiological Reference Date: February 1, 2022

Results Flags:

- A = Result acceptable.....|Bias| <= 20%
- W = Result acceptable with warning.....20% < |Bias| <= 30%
- N = Result not acceptable.....|Bias| > 30%
- RW = Report Warning
- NR = Not Reported

Uncertainty Flags:

MAPEP-22-MaSU46 Combined Report

NOT ACCEPTABLE.....RP < 2%

ACCEPTABLE.....2% <= RP <= 15%

ACCEPTABLE WITH WARNING.....15% < RP <= 30%

NOT ACCEPTABLE.....RP > 30%

Relative Precision (RP) = (Reported Uncertainty / Reported Result) x 100

The MaSU46 sample contains 54 +/- 3 Bq/L of K-40.

Notes:

(17) = NOT DETECTED - reported a statistically zero result



Department of Energy RESL - 1955 Fremont Ave, MS4149 - Idaho Falls, ID 83415

Laboratory Results For MAPEP-22-MaSU46
 (HPAL01) Los Alamos National Laboratory
 Milan Gadd, MS G761
 Los Alamos, NM 87545-1663

Mass							Units: (ng/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Uranium-235	3.99	4.14	A		-3.6	2.90 - 5.38	1.4e-7	N
Uranium-238	NR	828				580 - 1076		
Uranium-Total	NR	832				582 - 1082		

Radiological							Units: (Bq/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	0.00207	0.0018	A			Sensitivity Evaluation	0.00066	
Cesium-134	NR	1.77				1.24 - 2.30		
Cesium-137	NR	1.56				1.09 - 2.03		
Cobalt-57	NR	5.39				3.77 - 7.01		
Cobalt-60	NR	2.06				1.44 - 2.68		
Curium-244	NR					False Positive Test		
Manganese-54	NR	5.08				3.56 - 6.60		
Nickel-63	NR	6.44				4.51 - 8.37		
Plutonium-238	NR	0.0042				Sensitivity Evaluation		
Plutonium-239/240	0.2907	0.291	A		-0.1	0.204 - 0.378	0.0046	N
Strontium-90	NR	1.26				0.88 - 1.64		
Technetium-99	NR					False Positive Test		
Uranium-234	0.00663	0.0074	A		-10.4	0.0052 - 0.0096	0.00037	A
Uranium-238	0.009975	0.0103	A		-3.2	0.0072 - 0.0134	0.000092	N
Zinc-65	NR	4.48				3.14 - 5.82		

Radiological Reference Date: February 1, 2022

Results Flags:

- A = Result acceptable.....|Bias| <= 20%
- W = Result acceptable with warning.....20% < |Bias| <= 30%
- N = Result not acceptable.....|Bias| > 30%
- RW = Report Warning
- NR = Not Reported

Uncertainty Flags:

MAPEP-22-MaSU46 Combined Report

NOT ACCEPTABLE.....RP < 2%

ACCEPTABLE.....2% <= RP <= 15%

ACCEPTABLE WITH WARNING.....15% < RP <= 30%

NOT ACCEPTABLE.....RP > 30%

Relative Precision (RP) = (Reported Uncertainty / Reported Result) x 100

The MaSU46 sample contains 54 +/- 3 Bq/L of K-40.

Notes:

(17) = NOT DETECTED - reported a statistically zero result



Department of Energy RESL - 1955 Fremont Ave, MS4149 - Idaho Falls, ID 83415

Laboratory Results For MAPEP-22-MaSU46
 (IDGR01) Oak Ridge National Laboratory-Internal Dosimetry Group
 Bethel Valley Road
 Oak Ridge, TN 37831-6107

Mass							Units: (ng/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Uranium-235	3.95	4.14	A		-4.6	2.90 - 5.38	0.26	A
Uranium-238	796	828	A		-3.9	580 - 1076	48	A
Uranium-Total	NR	832				582 - 1082		

Radiological							Units: (Bq/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	0.0022	0.0018	A	(17)		Sensitivity Evaluation	0.0009	
Cesium-134	1.76	1.77	A		-0.6	1.24 - 2.30	0.06	A
Cesium-137	1.75	1.56	A		12.2	1.09 - 2.03	0.09	A
Cobalt-57	6.1	5.39	A		13.2	3.77 - 7.01	0.2	A
Cobalt-60	2.30	2.06	A		11.7	1.44 - 2.68	0.08	A
Curium-244	-0.00001		A			False Positive Test	0.00025	
Manganese-54	5.9	5.08	A		16.1	3.56 - 6.60	0.2	A
Nickel-63	NR	6.44				4.51 - 8.37		
Plutonium-238	0.0051	0.0042	A			Sensitivity Evaluation	0.0009	
Plutonium-239/240	0.31	0.291	A		6.5	0.204 - 0.378	0.02	A
Strontium-90	1.18	1.26	A		-6.3	0.88 - 1.64	0.18	W
Technetium-99	NR					False Positive Test		
Uranium-234	0.007	0.0074	A		-5.4	0.0052 - 0.0096	0.001	A
Uranium-238	0.010	0.0103	A		-2.9	0.0072 - 0.0134	0.002	W
Zinc-65	5.4	4.48	W		20.5	3.14 - 5.82	0.2	A

Radiological Reference Date: February 1, 2022

Results Flags:

- A = Result acceptable.....|Bias| <= 20%
- W = Result acceptable with warning.....20% < |Bias| <= 30%
- N = Result not acceptable.....|Bias| > 30%
- RW = Report Warning
- NR = Not Reported

Uncertainty Flags:

MAPEP-22-MaSU46 Combined Report

NOT ACCEPTABLE.....RP < 2%

ACCEPTABLE.....2% <= RP <= 15%

ACCEPTABLE WITH WARNING.....15% < RP <= 30%

NOT ACCEPTABLE.....RP > 30%

Relative Precision (RP) = (Reported Uncertainty / Reported Result) x 100

The MaSU46 sample contains 54 +/- 3 Bq/L of K-40.

Notes:

(17) = NOT DETECTED - reported a statistically zero result



Department of Energy RESL - 1955 Fremont Ave, MS4149 - Idaho Falls, ID 83415

Laboratory Results For MAPEP-22-MaSU46

(LANL01) Los Alamos National Laboratory

P. O. Box 1663

Los Alamos, NM 87545

Mass							Units: (ng/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Uranium-235	NR	4.14				2.90 - 5.38		
Uranium-238	NR	828				580 - 1076		
Uranium-Total	NR	832				582 - 1082		

Radiological							Units: (Bq/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	NR	0.0018				Sensitivity Evaluation		
Cesium-134	1.64	1.77	A		-7.3	1.24 - 2.30	0.13	A
Cesium-137	1.81	1.56	A		16.0	1.09 - 2.03	0.12	A
Cobalt-57	5.20	5.39	A		-3.5	3.77 - 7.01	0.34	A
Cobalt-60	2.13	2.06	A		3.4	1.44 - 2.68	0.21	A
Curium-244	NR					False Positive Test		
Manganese-54	5.39	5.08	A		6.1	3.56 - 6.60	0.36	A
Nickel-63	NR	6.44				4.51 - 8.37		
Plutonium-238	0.00379	0.0042	A			Sensitivity Evaluation	0.00066	
Plutonium-239/240	0.2850	0.291	A		-2.1	0.204 - 0.378	0.0092	A
Strontium-90	NR	1.26				0.88 - 1.64		
Technetium-99	NR					False Positive Test		
Uranium-234	NR	0.0074				0.0052 - 0.0096		
Uranium-238	NR	0.0103				0.0072 - 0.0134		
Zinc-65	5.87	4.48	N		31.0	3.14 - 5.82	0.42	A

Radiological Reference Date: February 1, 2022

Results Flags:

A = Result acceptable.....|Bias| <= 20%

W = Result acceptable with warning.....20% < |Bias| <= 30%

N = Result not acceptable.....|Bias| > 30%

RW = Report Warning

NR = Not Reported

Uncertainty Flags:

MAPEP-22-MaSU46 Combined Report

NOT ACCEPTABLE.....RP < 2%

ACCEPTABLE.....2% <= RP <= 15%

ACCEPTABLE WITH WARNING.....15% < RP <= 30%

NOT ACCEPTABLE.....RP > 30%

Relative Precision (RP) = (Reported Uncertainty / Reported Result) x 100

The MaSU46 sample contains 54 +/- 3 Bq/L of K-40.

Notes:

(17) = NOT DETECTED - reported a statistically zero result



Department of Energy RESL - 1955 Fremont Ave, MS4149 - Idaho Falls, ID 83415

Laboratory Results For MAPEP-22-MaSU46
 (RQCT01) Radiobioassay Quality Control Testing
 PO Box 1625, MS 2114
 Idaho Falls, ID 83415

Mass							Units: (ng/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Uranium-235	NR	4.14				2.90 - 5.38		
Uranium-238	NR	828				580 - 1076		
Uranium-Total	809	832	A		-2.8	582 - 1082	29.4	A

Radiological							Units: (Bq/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	0.0016	0.0018	A			Sensitivity Evaluation	0.00032	
Cesium-134	1.96	1.77	A		10.7	1.24 - 2.30	0.223	A
Cesium-137	1.87	1.56	A		19.9	1.09 - 2.03	0.191	A
Cobalt-57	5.56	5.39	A		3.2	3.77 - 7.01	0.335	A
Cobalt-60	2.18	2.06	A		5.8	1.44 - 2.68	0.315	A
Curium-244	NR					False Positive Test		
Manganese-54	5.38	5.08	A		5.9	3.56 - 6.60	0.368	A
Nickel-63	NR	6.44				4.51 - 8.37		
Plutonium-238	0.0031	0.0042	A			Sensitivity Evaluation	0.00062	
Plutonium-239/240	0.2763	0.291	A		-5.1	0.204 - 0.378	0.01842	A
Strontium-90	0.354	1.26	N		-71.9	0.88 - 1.64	0.0312	A
Technetium-99	NR					False Positive Test		
Uranium-234	0.0078	0.0074	A		5.4	0.0052 - 0.0096	0.00112	A
Uranium-238	0.0109	0.0103	A		5.8	0.0072 - 0.0134	0.00135	A
Zinc-65	4.64	4.48	A		3.6	3.14 - 5.82	0.615	A

Radiological Reference Date: February 1, 2022

Results Flags:

- A = Result acceptable.....|Bias| <= 20%
- W = Result acceptable with warning.....20% < |Bias| <= 30%
- N = Result not acceptable.....|Bias| > 30%
- RW = Report Warning
- NR = Not Reported

Uncertainty Flags:

MAPEP-22-MaSU46 Combined Report

NOT ACCEPTABLE.....RP < 2%

ACCEPTABLE.....2% <= RP <= 15%

ACCEPTABLE WITH WARNING.....15% < RP <= 30%

NOT ACCEPTABLE.....RP > 30%

Relative Precision (RP) = (Reported Uncertainty / Reported Result) x 100

The MaSU46 sample contains 54 +/- 3 Bq/L of K-40.

Notes:

(17) = NOT DETECTED - reported a statistically zero result



Department of Energy RESL - 1955 Fremont Ave, MS4149 - Idaho Falls, ID 83415

Laboratory Results For MAPEP-22-MaSU46
 (SEML01) SRS Environmental Monitoring Laboratory
 Bldg 735-B
 Aiken, SC 29808

Mass							Units: (ng/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Uranium-235	NR	4.14				2.90 - 5.38		
Uranium-238	NR	828				580 - 1076		
Uranium-Total	NR	832				582 - 1082		

Radiological							Units: (Bq/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	0.00166	0.0018	A			Sensitivity Evaluation	0.00047	
Cesium-134	1.92	1.77	A		8.5	1.24 - 2.30	0.13	A
Cesium-137	1.68	1.56	A		7.7	1.09 - 2.03	0.14	A
Cobalt-57	5.37	5.39	A		-0.4	3.77 - 7.01	0.34	A
Cobalt-60	2.11	2.06	A		2.4	1.44 - 2.68	0.139	A
Curium-244	0.00004		A			False Positive Test	0.00012	
Manganese-54	5.32	5.08	A		4.7	3.56 - 6.60	0.38	A
Nickel-63	NR	6.44				4.51 - 8.37		
Plutonium-238	0.00418	0.0042	A			Sensitivity Evaluation	0.00072	
Plutonium-239/240	0.283	0.291	A		-2.7	0.204 - 0.378	0.010	A
Strontium-90	1.21	1.26	A		-4.0	0.88 - 1.64	0.16	A
Technetium-99	NR					False Positive Test		
Uranium-234	0.00660	0.0074	A		-10.8	0.0052 - 0.0096	0.00088	A
Uranium-238	0.0096	0.0103	A		-6.8	0.0072 - 0.0134	0.0011	A
Zinc-65	4.81	4.48	A		7.4	3.14 - 5.82	0.39	A

Radiological Reference Date: February 1, 2022

Results Flags:

- A = Result acceptable.....|Bias| <= 20%
- W = Result acceptable with warning.....20% < |Bias| <= 30%
- N = Result not acceptable.....|Bias| > 30%
- RW = Report Warning
- NR = Not Reported

Uncertainty Flags:

MAPEP-22-MaSU46 Combined Report

NOT ACCEPTABLE.....RP < 2%

ACCEPTABLE.....2% <= RP <= 15%

ACCEPTABLE WITH WARNING.....15% < RP <= 30%

NOT ACCEPTABLE.....RP > 30%

Relative Precision (RP) = (Reported Uncertainty / Reported Result) x 100

The MaSU46 sample contains 54 +/- 3 Bq/L of K-40.

Notes:

(17) = NOT DETECTED - reported a statistically zero result



Department of Energy RESL - 1955 Fremont Ave, MS4149 - Idaho Falls, ID 83415

Laboratory Results For MAPEP-22-MaSU46
 (TELE01) Teledyne Brown Engineering - Environmental Services
 2508 Quality Lane
 Knoxville, TN 37931-6819

Mass							Units: (ng/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Uranium-235	NR	4.14				2.90 - 5.38		
Uranium-238	NR	828				580 - 1076		
Uranium-Total	NR	832				582 - 1082		

Radiological							Units: (Bq/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	NR	0.0018				Sensitivity Evaluation		
Cesium-134	1.67	1.77	A		-5.7	1.24 - 2.30	.172	A
Cesium-137	1.5	1.56	A		-3.8	1.09 - 2.03	.298	W
Cobalt-57	4.93	5.39	A		-8.5	3.77 - 7.01	.239	A
Cobalt-60	2.13	2.06	A		3.4	1.44 - 2.68	.203	A
Curium-244	NR					False Positive Test		
Manganese-54	4.83	5.08	A		-4.9	3.56 - 6.60	.288	A
Nickel-63	NR	6.44				4.51 - 8.37		
Plutonium-238	NR	0.0042				Sensitivity Evaluation		
Plutonium-239/240	NR	0.291				0.204 - 0.378		
Strontium-90	NR	1.26				0.88 - 1.64		
Technetium-99	NR					False Positive Test		
Uranium-234	.142	0.0074	N		1818.9	0.0052 - 0.0096	.0177	A
Uranium-238	.0254	0.0103	N		146.6	0.0072 - 0.0134	.00697	W
Zinc-65	4.71	4.48	A		5.1	3.14 - 5.82	.56	A

Radiological Reference Date: February 1, 2022

Results Flags:

- A = Result acceptable.....|Bias| <= 20%
- W = Result acceptable with warning.....20% < |Bias| <= 30%
- N = Result not acceptable.....|Bias| > 30%
- RW = Report Warning
- NR = Not Reported

Uncertainty Flags:

MAPEP-22-MaSU46 Combined Report

NOT ACCEPTABLE.....RP < 2%

ACCEPTABLE.....2% <= RP <= 15%

ACCEPTABLE WITH WARNING.....15% < RP <= 30%

NOT ACCEPTABLE.....RP > 30%

Relative Precision (RP) = (Reported Uncertainty / Reported Result) x 100

The MaSU46 sample contains 54 +/- 3 Bq/L of K-40.

Notes:

(17) = NOT DETECTED - reported a statistically zero result



Department of Energy RESL - 1955 Fremont Ave, MS4149 - Idaho Falls, ID 83415

Laboratory Results For MAPEP-22-MaSU46

(WIPP01) WIPP Laboratories

1400 University Drive

Carlsbad, NM 88220

Mass							Units: (ng/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Uranium-235	NR	4.14				2.90 - 5.38		
Uranium-238	NR	828				580 - 1076		
Uranium-Total	NR	832				582 - 1082		

Radiological							Units: (Bq/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	1.62E-03	0.0018	A			Sensitivity Evaluation	4.57E-04	
Cesium-134	1.73E+00	1.77	A		-2.3	1.24 - 2.30	9.20E-02	A
Cesium-137	1.79E+00	1.56	A		14.7	1.09 - 2.03	1.17E-01	A
Cobalt-57	5.95E+00	5.39	A		10.4	3.77 - 7.01	1.68E-01	A
Cobalt-60	2.17E+00	2.06	A		5.3	1.44 - 2.68	1.06E-01	A
Curium-244	NR					False Positive Test		
Manganese-54	5.73E+00	5.08	A		12.8	3.56 - 6.60	1.61E-01	A
Nickel-63	NR	6.44				4.51 - 8.37		
Plutonium-238	4.62E-03	0.0042	A			Sensitivity Evaluation	9.67E-04	
Plutonium-239/240	3.01E-01	0.291	A		3.4	0.204 - 0.378	5.33E-02	W
Strontium-90	1.12E+00	1.26	A		-11.1	0.88 - 1.64	7.95E-02	A
Technetium-99	NR					False Positive Test		
Uranium-234	7.40E-03	0.0074	A		0.0	0.0052 - 0.0096	1.03E-03	A
Uranium-238	1.16E-02	0.0103	A		12.6	0.0072 - 0.0134	1.42E-03	A
Zinc-65	5.24E+00	4.48	A		17.0	3.14 - 5.82	3.02E-01	A

Radiological Reference Date: February 1, 2022

Results Flags:

A = Result acceptable.....|Bias| <= 20%

W = Result acceptable with warning.....20% < |Bias| <= 30%

N = Result not acceptable.....|Bias| > 30%

RW = Report Warning

NR = Not Reported

Uncertainty Flags:

MAPEP-22-MaSU46 Combined Report

NOT ACCEPTABLE.....RP < 2%

ACCEPTABLE.....2% <= RP <= 15%

ACCEPTABLE WITH WARNING.....15% < RP <= 30%

NOT ACCEPTABLE.....RP > 30%

Relative Precision (RP) = (Reported Uncertainty / Reported Result) x 100

The MaSU46 sample contains 54 +/- 3 Bq/L of K-40.

Notes:

(17) = NOT DETECTED - reported a statistically zero result



Department of Energy RESL - 1955 Fremont Ave, MS4149 - Idaho Falls, ID 83415

Laboratory Results For MAPEP-22-MaSU46
 (WSHL01) Wisconsin State Laboratory of Hygiene
 2601 Agriculture Drive
 Madison, WI 53718

Mass							Units: (ng/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Uranium-235	NR	4.14				2.90 - 5.38		
Uranium-238	NR	828				580 - 1076		
Uranium-Total	NR	832				582 - 1082		

Radiological							Units: (Bq/L)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	NR	0.0018				Sensitivity Evaluation		
Cesium-134	1.81	1.77	A		2.3	1.24 - 2.30	0.0603	A
Cesium-137	1.95	1.56	W		25.0	1.09 - 2.03	0.106	A
Cobalt-57	5.74	5.39	A		6.5	3.77 - 7.01	0.176	A
Cobalt-60	2.26	2.06	A		9.7	1.44 - 2.68	0.138	A
Curium-244	NR					False Positive Test		
Manganese-54	5.58	5.08	A		9.8	3.56 - 6.60	0.258	A
Nickel-63	NR	6.44				4.51 - 8.37		
Plutonium-238	NR	0.0042				Sensitivity Evaluation		
Plutonium-239/240	NR	0.291				0.204 - 0.378		
Strontium-90	NR	1.26				0.88 - 1.64		
Technetium-99	NR					False Positive Test		
Uranium-234	NR	0.0074				0.0052 - 0.0096		
Uranium-238	NR	0.0103				0.0072 - 0.0134		
Zinc-65	4.72	4.48	A		5.4	3.14 - 5.82	0.384	A

Radiological Reference Date: February 1, 2022

Results Flags:

- A = Result acceptable.....|Bias| <= 20%
- W = Result acceptable with warning.....20% < |Bias| <= 30%
- N = Result not acceptable.....|Bias| > 30%
- RW = Report Warning
- NR = Not Reported

Uncertainty Flags:

Radiological Units: (Bq/L)

Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
---------	--------	-----------	------	-------	----------	------------------	-----------	----------

NOT ACCEPTABLE.....RP < 2%

ACCEPTABLE.....2% <= RP <= 15%

ACCEPTABLE WITH WARNING.....15% < RP <= 30%

NOT ACCEPTABLE.....RP > 30%

Relative Precision (RP) = (Reported Uncertainty / Reported Result) x 100

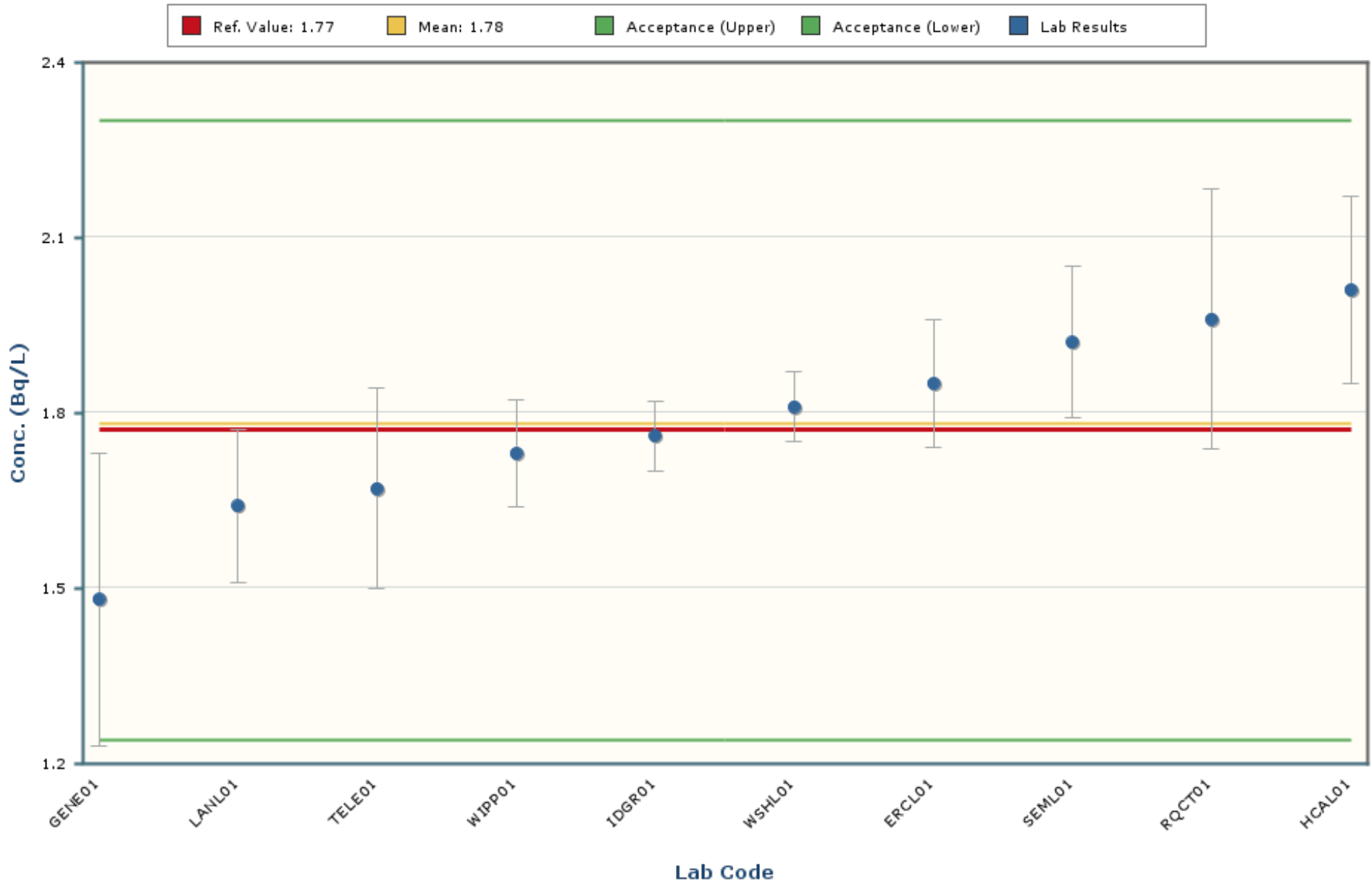
The MaSU46 sample contains 54 +/- 3 Bq/L of K-40.

Notes:

(17) = NOT DETECTED - reported a statistically zero result

Cesium-134

MAPEP-22-MaSU46



Notes:

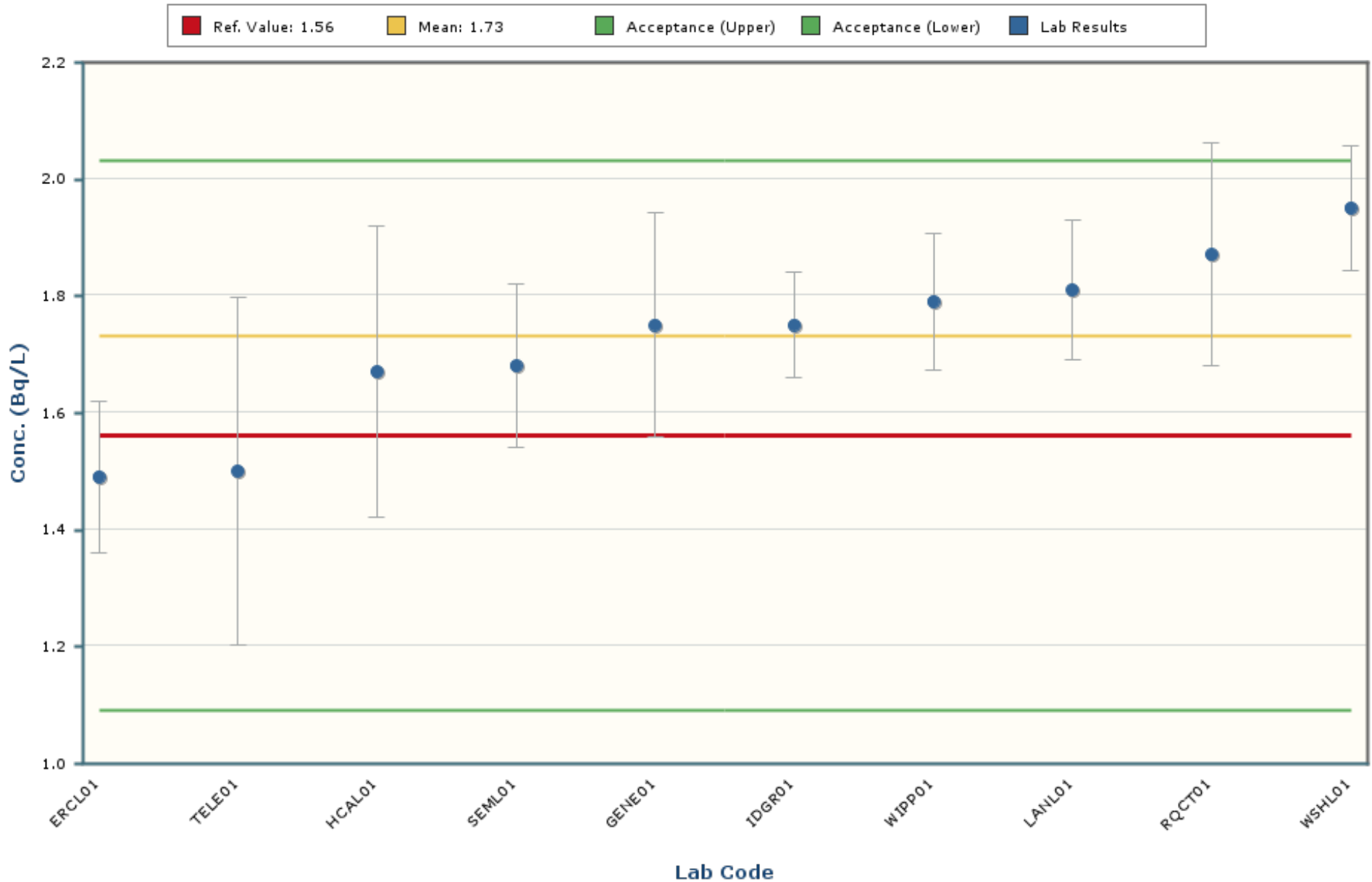
The chart mean excludes values outside of a bias range of $\pm 30\%$.

The chart shows only data points with values between 0.97 and 2.59 (± 5 Standard Deviations).

The error bars encompassing each result are plotted at \pm one standard deviation.

Cesium-137

MAPEP-22-MaSU46



Notes:

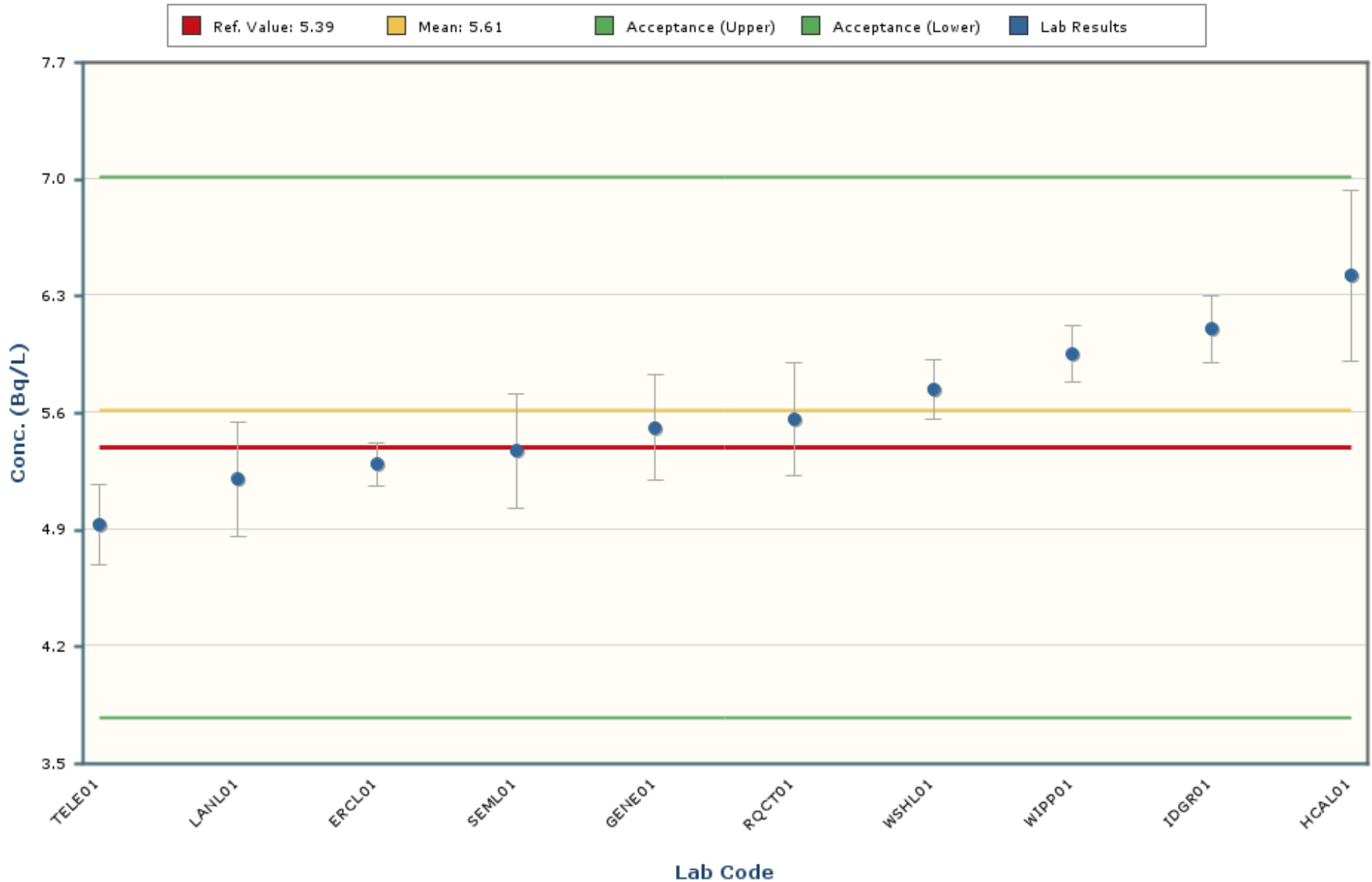
The chart mean excludes values outside of a bias range of $\pm 30\%$.

The chart shows only data points with values between 0.99 and 2.46 (± 5 Standard Deviations).

The error bars encompassing each result are plotted at \pm one standard deviation.

Cobalt-57

MAPEP-22-MaSU46



Notes:

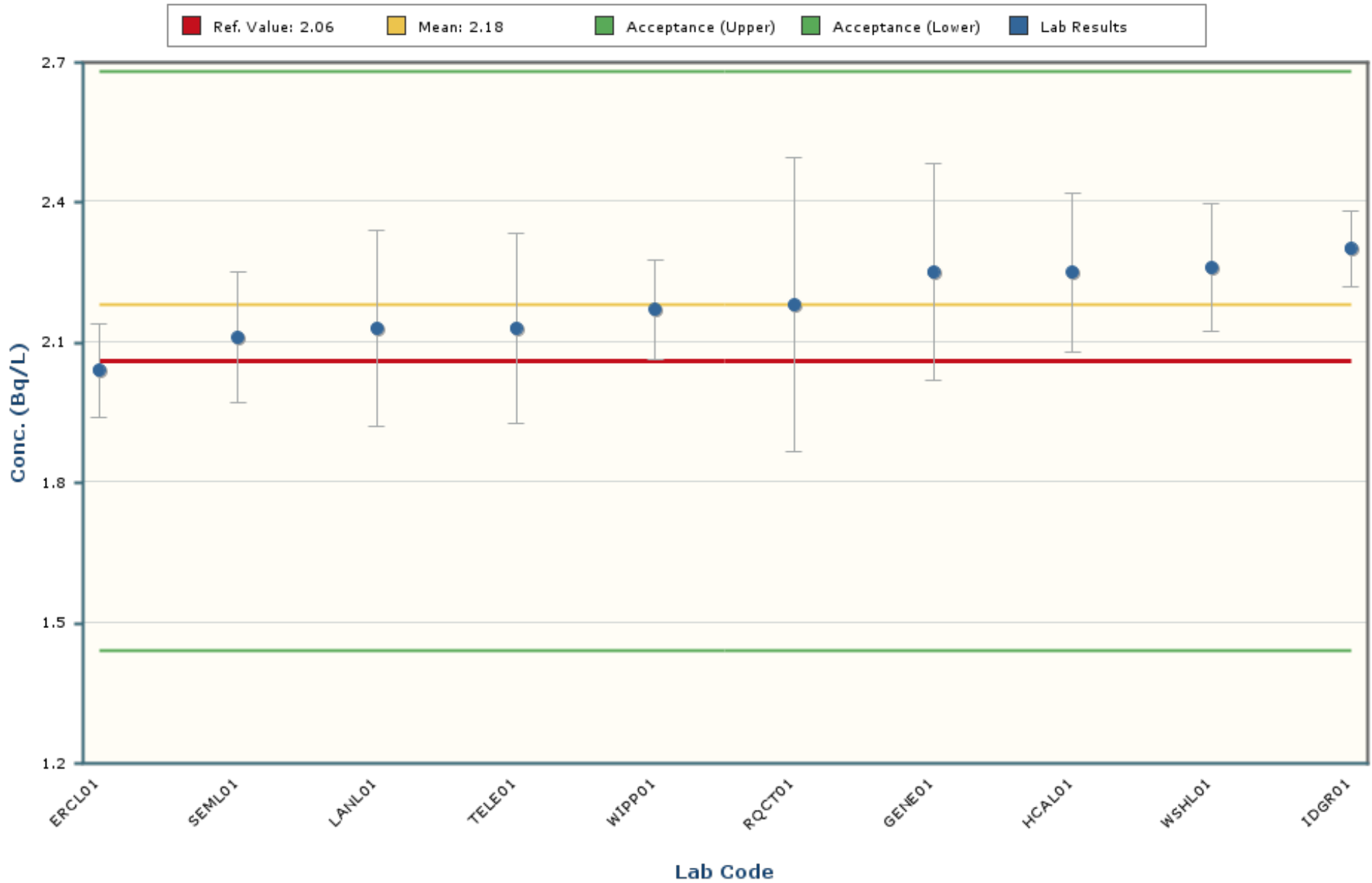
The chart mean excludes values outside of a bias range of $\pm 30\%$.

The chart shows only data points with values between 3.35 and 7.86 (± 5 Standard Deviations).

The error bars encompassing each result are plotted at \pm one standard deviation.

Cobalt-60

MAPEP-22-MaSU46



Notes:

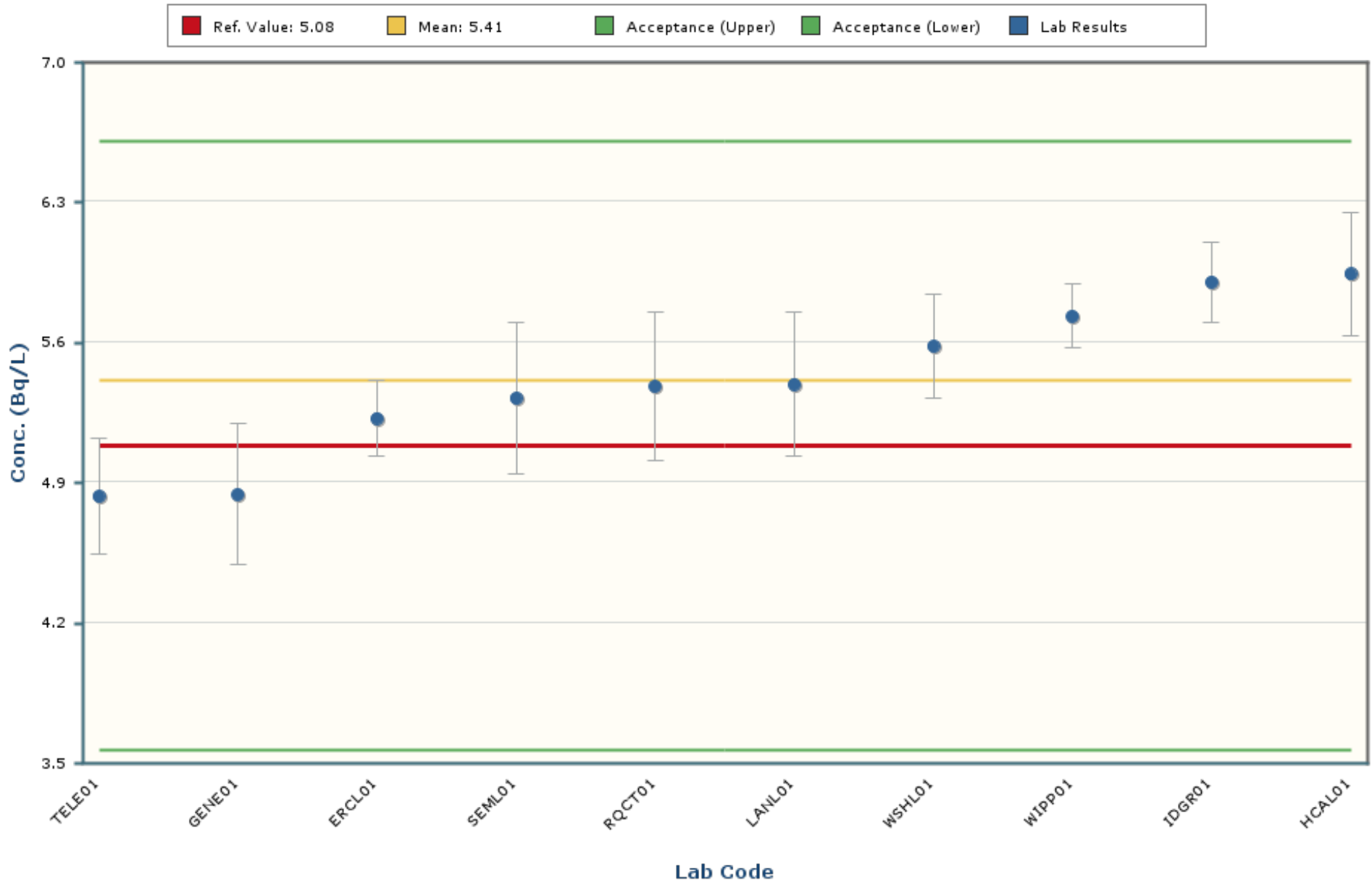
The chart mean excludes values outside of a bias range of $\pm 30\%$.

The chart shows only data points with values between 1.77 and 2.59 (± 5 Standard Deviations).

The error bars encompassing each result are plotted at \pm one standard deviation.

Manganese-54

MAPEP-22-MaSU46



Notes:

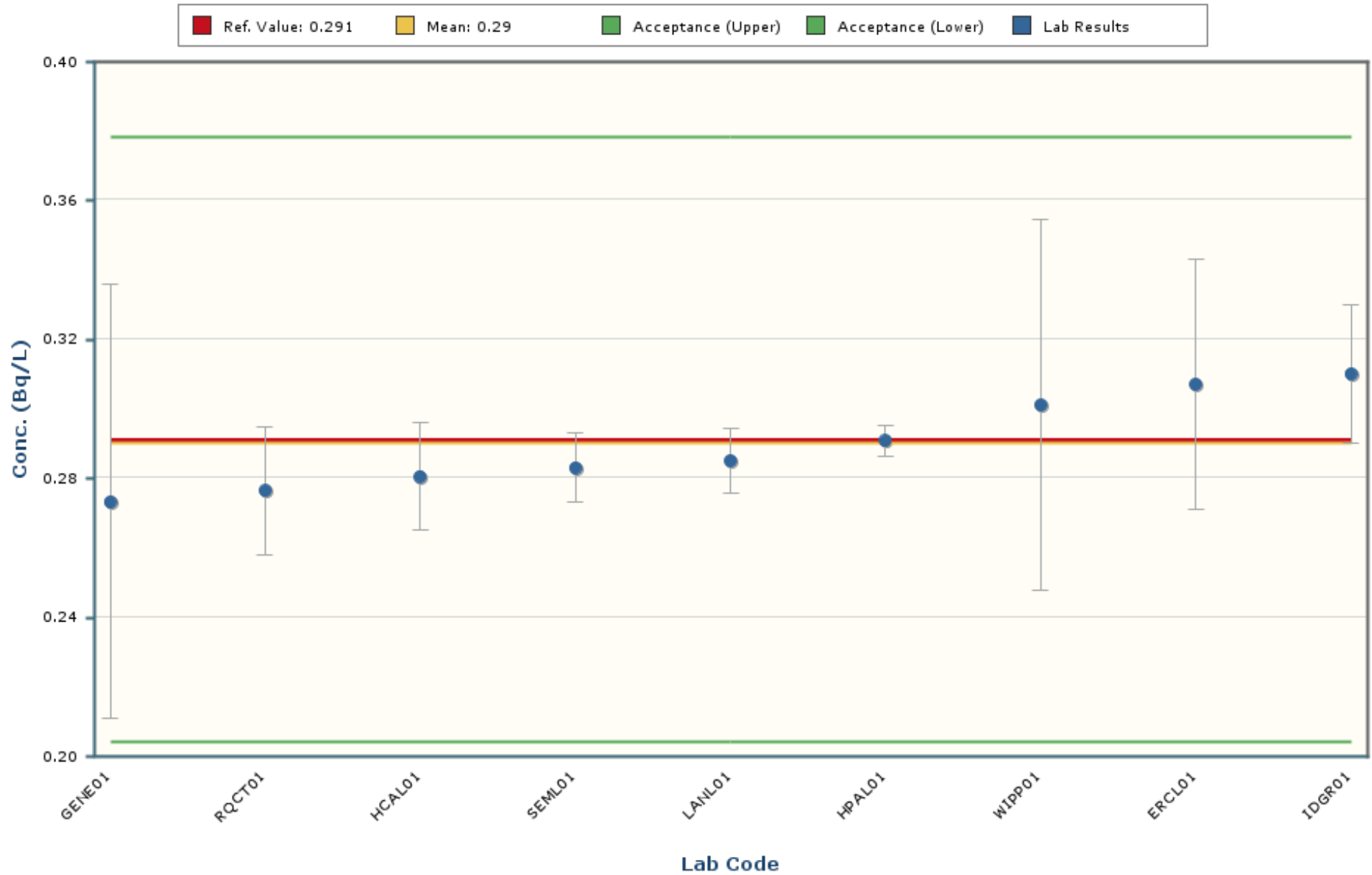
The chart mean excludes values outside of a bias range of $\pm 30\%$.

The chart shows only data points with values between 3.47 and 7.36 (± 5 Standard Deviations).

The error bars encompassing each result are plotted at \pm one standard deviation.

Plutonium-239/240

MAPEP-22-MaSU46



Notes:

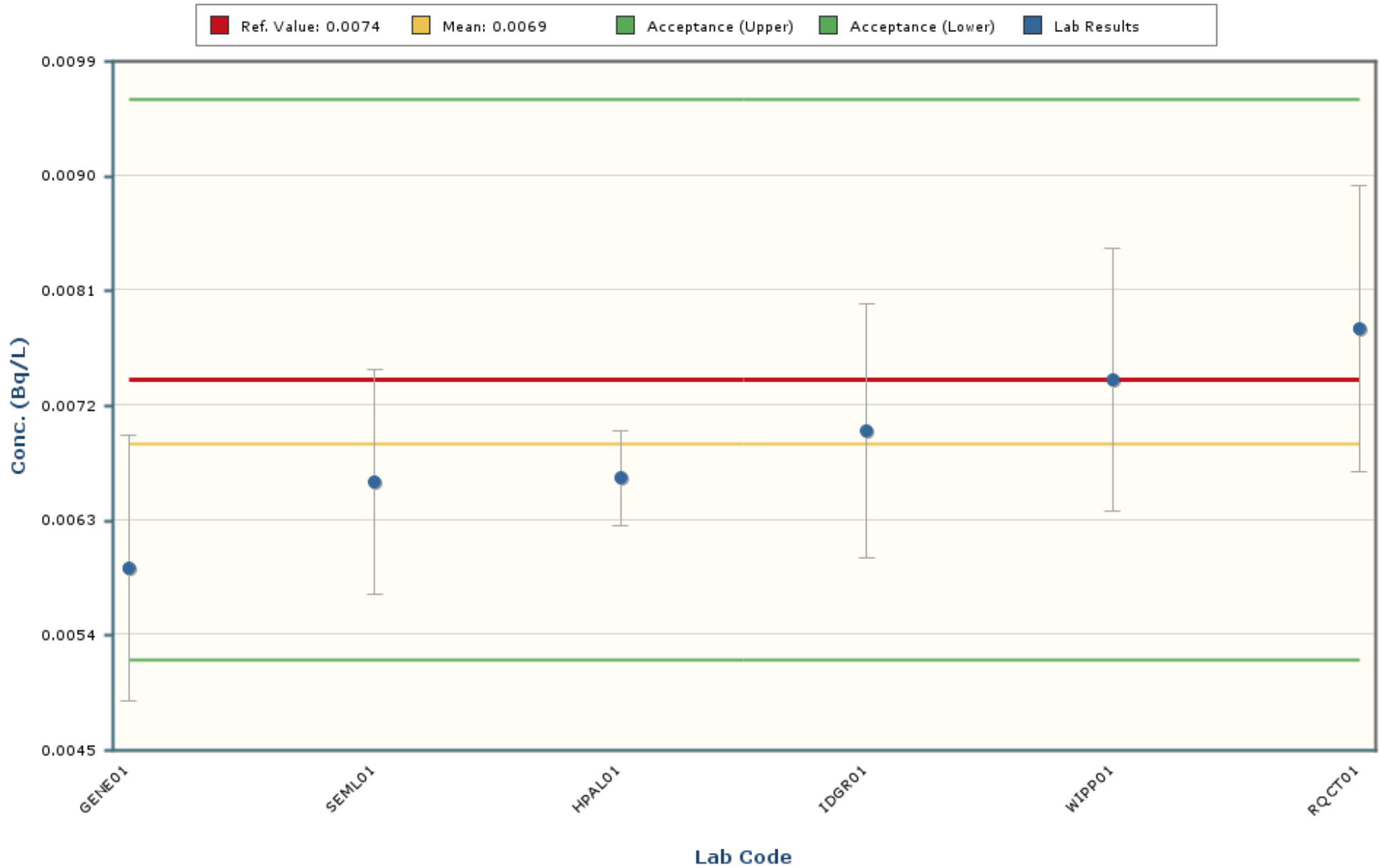
The chart mean excludes values outside of a bias range of $\pm 30\%$.

The chart shows only data points with values between 0.222 and 0.357 (± 5 Standard Deviations).

The error bars encompassing each result are plotted at \pm one standard deviation.

Uranium-234

MAPEP-22-MaSU46



Notes:

The chart mean excludes values outside of a bias range of $\pm 30\%$.

The chart shows only data points with values between 0.0036 and 0.0102 (± 5 Standard Deviations).

The error bars encompassing each result are plotted at \pm one standard deviation.

Uranium-238

MAPEP-22-MaSU46



Notes:

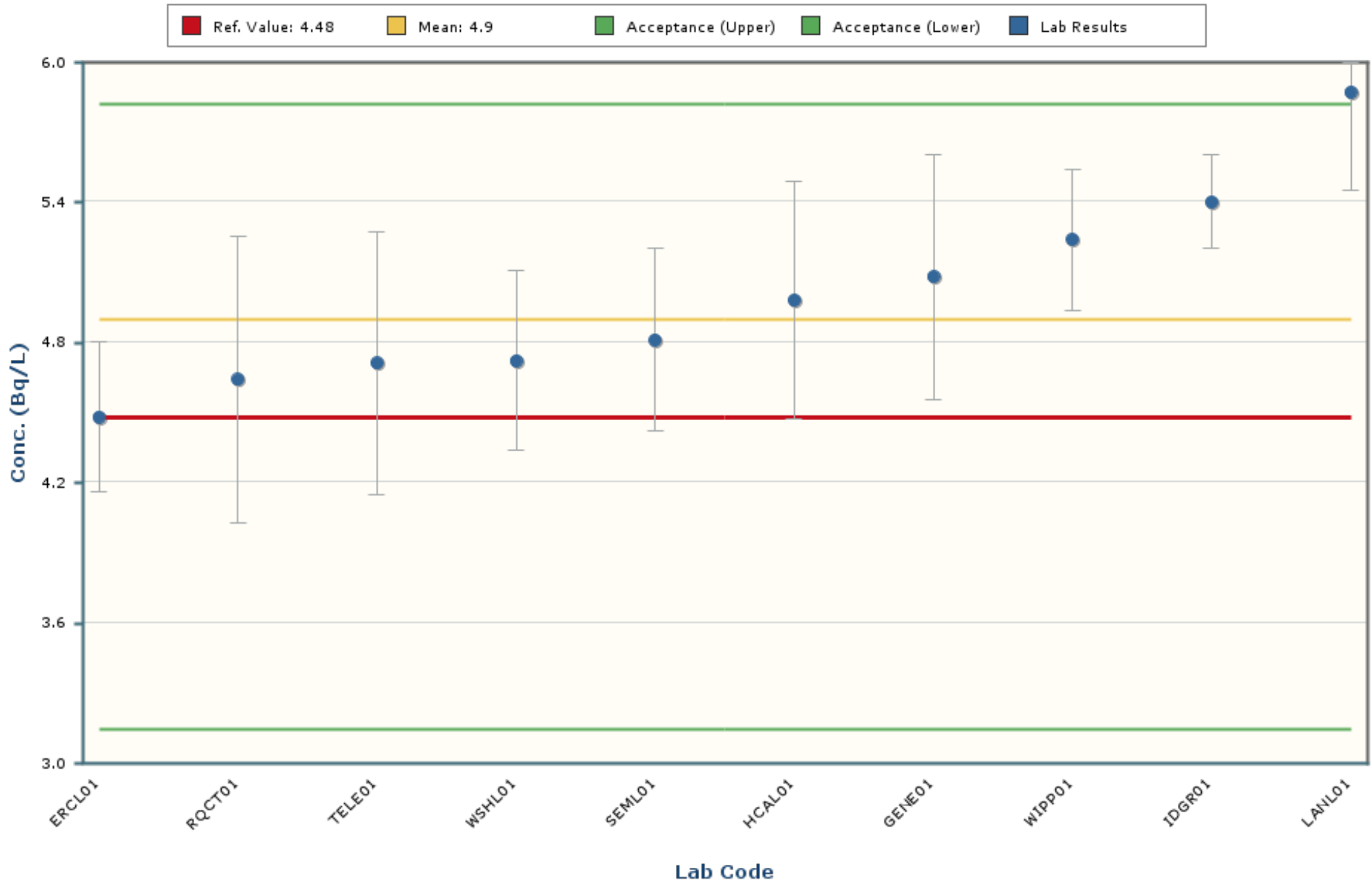
The chart mean excludes values outside of a bias range of $\pm 30\%$.

The chart shows only data points with values between 0.0069 and 0.0141 (± 5 Standard Deviations).

The error bars encompassing each result are plotted at \pm one standard deviation.

Zinc-65

MAPEP-22-MaSU46



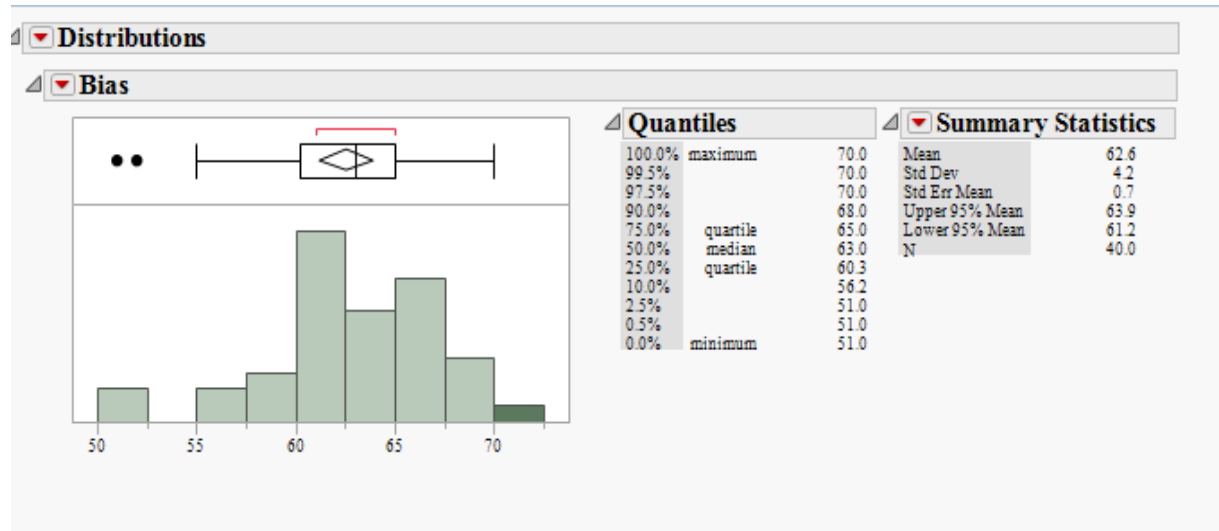
Notes:

The chart mean excludes values outside of a bias range of $\pm 30\%$.

The chart shows only data points with values between 3.39 and 6.40 (± 5 Standard Deviations).

The error bars encompassing each result are plotted at \pm one standard deviation.

The intent of the distribution graphs contained within this report is to graphically demonstrate to users how % Bias data within the current MAPEP Series appears when examined by matrix, by analyte, by method of sample preparation or by method of detection. Biases greater than +/- 100% have been screened from the data. The box plot of the bias data points and the mean visually illustrate the breadth of the distribution and where potential outliers in the distribution might lie. The statistics for the distribution plot are provided adjacent to the Bias plot. In some cases, N becomes very small and thus developed statistics may not accurately reflect estimates of the population if N were a significantly larger value.

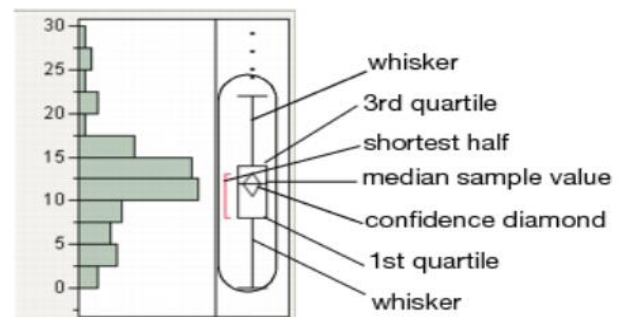


Outlier Box Plot

The BLACK small vertical line inside the small rectangle at the top of the data distribution graph is the median of the population of the bias shown for that analyte in the matrix. The confidence diamond contains the mean and the upper and lower 95% of the mean. If you drew a line through the middle of the diamond, you would have the mean. The top and bottom points of the diamond represent the upper and lower 95% of the mean. The ends of the box represent the 25th and 75th quantiles, also expressed as 1st and 3rd quartile. The difference between the 1st and 3rd quartiles is called the interquartile range. Each box has lines that extend from each end, sometimes called whiskers. The whiskers extend from the ends of the box to the outermost data point that falls within the distances computed as follows:

3rd quartile + 1.5*(interquartile range)

1st quartile - 1.5*(interquartile range)

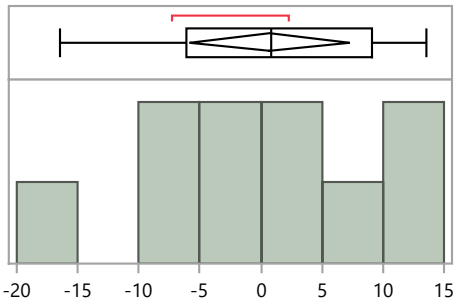


If the data points do not reach the computed ranges, then the whiskers are determined by the upper and lower data point values (not including outliers). The bracket outside of the box identifies the *shortest half*, which is the most dense 50% of the observations (Rousseuw and Leroy 1987).

MaU Distribution by Detection Method

Distributions Analyte_Detection=Cesium-134 Gamma Spectrometry

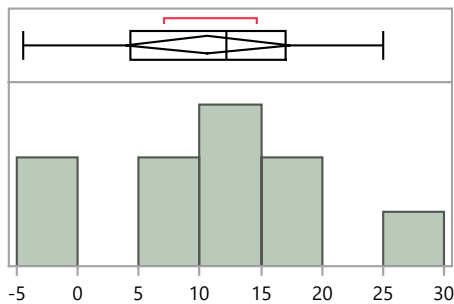
Bias



Quantiles			Summary Statistics	
100.0%	maximum	13.6	Mean	0.7
99.5%		13.6	Std Dev	9.1
97.5%		13.6	Std Err Mean	2.9
90.0%		13.3	Upper 95% Mean	7.3
75.0%	quartile	9.1	Lower 95% Mean	-5.8
50.0%	median	0.9	N	10.0
25.0%	quartile	-6.1		
10.0%		-15.5		
2.5%		-16.4		
0.5%		-16.4		
0.0%	minimum	-16.4		

Distributions Analyte_Detection=Cesium-137 Gamma Spectrometry

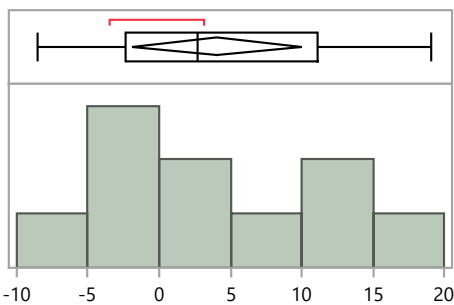
Bias



Quantiles			Summary Statistics	
100.0%	maximum	25.0	Mean	10.7
99.5%		25.0	Std Dev	9.4
97.5%		25.0	Std Err Mean	3.0
90.0%		24.5	Upper 95% Mean	17.4
75.0%	quartile	17.0	Lower 95% Mean	3.9
50.0%	median	12.2	N	10.0
25.0%	quartile	4.4		
10.0%		-4.4		
2.5%		-4.5		
0.5%		-4.5		
0.0%	minimum	-4.5		

Distributions Analyte_Detection=Cobalt-57 Gamma Spectrometry

Bias

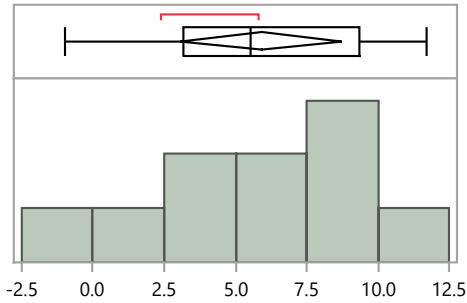


Quantiles			Summary Statistics	
100.0%	maximum	19.1	Mean	4.0
99.5%		19.1	Std Dev	8.4
97.5%		19.1	Std Err Mean	2.6
90.0%		18.5	Upper 95% Mean	10.0
75.0%	quartile	11.1	Lower 95% Mean	-2.0
50.0%	median	2.7	N	10.0
25.0%	quartile	-2.3		
10.0%		-8.0		
2.5%		-8.5		
0.5%		-8.5		
0.0%	minimum	-8.5		

MaU Distribution by Detection Method

Distributions Analyte_Detection=Cobalt-60 Gamma Spectrometry

Bias



Quantiles

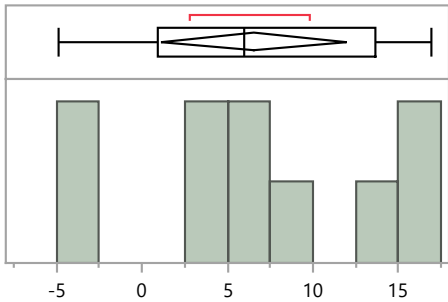
100.0%	maximum	11.7
99.5%		11.7
97.5%		11.7
90.0%		11.5
75.0%	quartile	9.3
50.0%	median	5.6
25.0%	quartile	3.2
10.0%		-0.7
2.5%		-1.0
0.5%		-1.0
0.0%	minimum	-1.0

Summary Statistics

Mean	5.9
Std Dev	4.0
Std Err Mean	1.3
Upper 95% Mean	8.8
Lower 95% Mean	3.1
N	10.0

Distributions Analyte_Detection=Manganese-54 Gamma Spectrometry

Bias



Quantiles

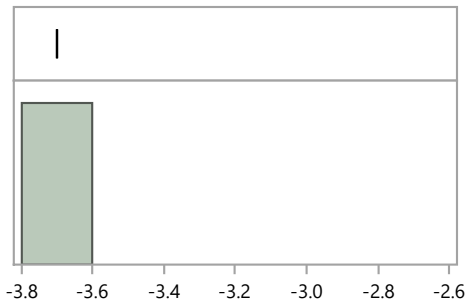
100.0%	maximum	16.9
99.5%		16.9
97.5%		16.9
90.0%		16.8
75.0%	quartile	13.6
50.0%	median	6.0
25.0%	quartile	0.9
10.0%		-4.9
2.5%		-4.9
0.5%		-4.9
0.0%	minimum	-4.9

Summary Statistics

Mean	6.6
Std Dev	7.6
Std Err Mean	2.4
Upper 95% Mean	12.0
Lower 95% Mean	1.1
N	10.0

Distributions Analyte_Detection=Nickel-63 Liquid Scintillation Counter

Bias



Quantiles

100.0%	maximum	-3.7
99.5%		-3.7
97.5%		-3.7
90.0%		-3.7
75.0%	quartile	-3.7
50.0%	median	-3.7
25.0%	quartile	-3.7
10.0%		-3.7
2.5%		-3.7
0.5%		-3.7
0.0%	minimum	-3.7

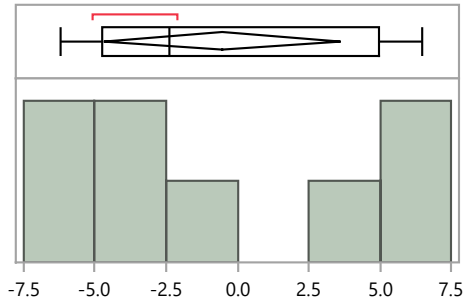
Summary Statistics

Mean	-3.7
Std Dev	.
Std Err Mean	.
Upper 95% Mean	.
Lower 95% Mean	.
N	1.0

MaU Distribution by Detection Method

Distributions Analyte_Detection=Plutonium-239/240 Alpha Spectrometry

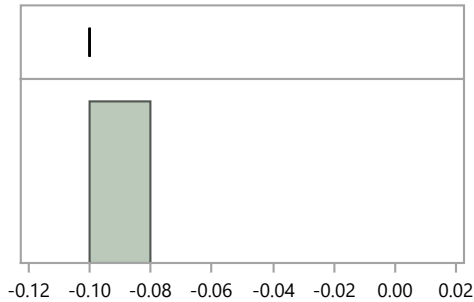
Bias



Quantiles		Summary Statistics		
100.0%	maximum	6.5	Mean	-0.5
99.5%		6.5	Std Dev	4.9
97.5%		6.5	Std Err Mean	1.7
90.0%		6.5	Upper 95% Mean	3.6
75.0%	quartile	5.0	Lower 95% Mean	-4.7
50.0%	median	-2.4	N	8.0
25.0%	quartile	-4.7		
10.0%		-6.2		
2.5%		-6.2		
0.5%		-6.2		
0.0%	minimum	-6.2		

Distributions Analyte_Detection=Plutonium-239/240 Thermal Ionization Mass Spectrometry

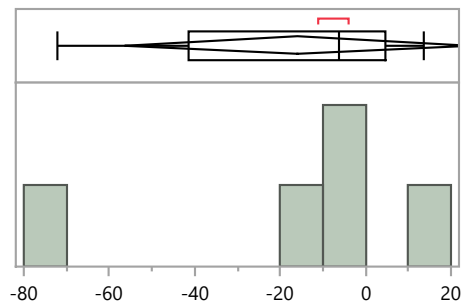
Bias



Quantiles		Summary Statistics		
100.0%	maximum	-0.1	Mean	-0.1
99.5%		-0.1	Std Dev	.
97.5%		-0.1	Std Err Mean	.
90.0%		-0.1	Upper 95% Mean	.
75.0%	quartile	-0.1	Lower 95% Mean	.
50.0%	median	-0.1	N	1.0
25.0%	quartile	-0.1		
10.0%		-0.1		
2.5%		-0.1		
0.5%		-0.1		
0.0%	minimum	-0.1		

Distributions Analyte_Detection=Strontium-90 Gas Flow Proportional Counter

Bias

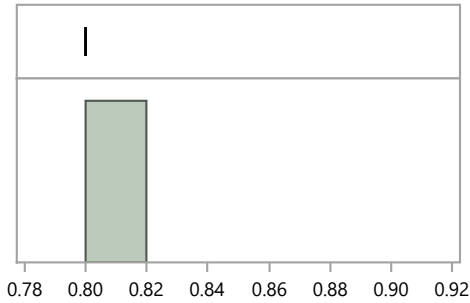


Quantiles		Summary Statistics		
100.0%	maximum	13.5	Mean	-16.0
99.5%		13.5	Std Dev	32.6
97.5%		13.5	Std Err Mean	14.6
90.0%		13.5	Upper 95% Mean	24.5
75.0%	quartile	4.8	Lower 95% Mean	-56.5
50.0%	median	-6.3	N	5.0
25.0%	quartile	-41.5		
10.0%		-71.9		
2.5%		-71.9		
0.5%		-71.9		
0.0%	minimum	-71.9		

MaU Distribution by Detection Method

Distributions Analyte_Detection=Strontium-90 Gross Alpha/Beta - 2 pi gas flow proportional counter

Bias



Quantiles

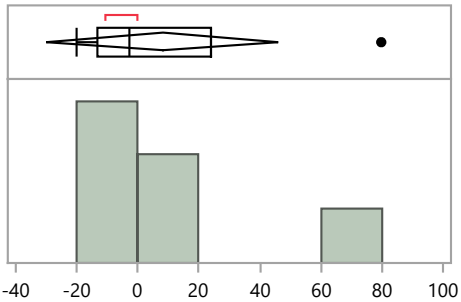
100.0%	maximum	0.8
99.5%		0.8
97.5%		0.8
90.0%		0.8
75.0%	quartile	0.8
50.0%	median	0.8
25.0%	quartile	0.8
10.0%		0.8
2.5%		0.8
0.5%		0.8
0.0%	minimum	0.8

Summary Statistics

Mean	0.8
Std Dev	.
Std Err Mean	.
Upper 95% Mean	.
Lower 95% Mean	.
N	1.0

Distributions Analyte_Detection=Uranium-234 Alpha Spectrometry

Bias



Quantiles

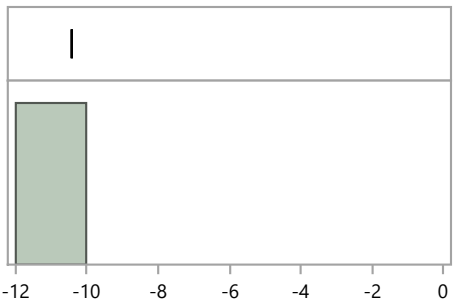
100.0%	maximum	79.7
99.5%		79.7
97.5%		79.7
90.0%		79.7
75.0%	quartile	24.0
50.0%	median	-2.7
25.0%	quartile	-13.1
10.0%		-20.0
2.5%		-20.0
0.5%		-20.0
0.0%	minimum	-20.0

Summary Statistics

Mean	8.2
Std Dev	36.1
Std Err Mean	14.8
Upper 95% Mean	46.1
Lower 95% Mean	-29.8
N	6.0

Distributions Analyte_Detection=Uranium-234 Inductively Coupled Plasma Mass Spectrometry

Bias



Quantiles

100.0%	maximum	-10.4
99.5%		-10.4
97.5%		-10.4
90.0%		-10.4
75.0%	quartile	-10.4
50.0%	median	-10.4
25.0%	quartile	-10.4
10.0%		-10.4
2.5%		-10.4
0.5%		-10.4
0.0%	minimum	-10.4

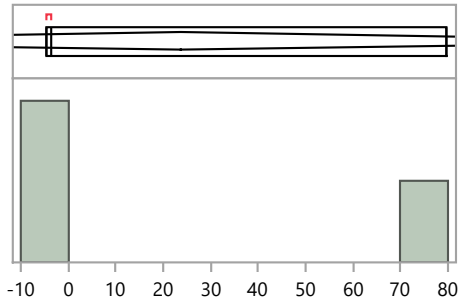
Summary Statistics

Mean	-10.4
Std Dev	.
Std Err Mean	.
Upper 95% Mean	.
Lower 95% Mean	.
N	1.0

MaU Distribution by Detection Method

Distributions Analyte_Detection=Uranium-235 Inductively Coupled Plasma Mass Spectrometry

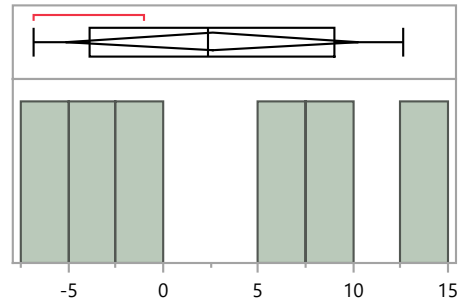
Bias



Quantiles		Summary Statistics		
100.0%	maximum	79.5	Mean	23.8
99.5%		79.5	Std Dev	48.3
97.5%		79.5	Std Err Mean	27.9
90.0%		79.5	Upper 95% Mean	143.7
75.0%	quartile	79.5	Lower 95% Mean	-96.1
50.0%	median	-3.6	N	3.0
25.0%	quartile	-4.6		
10.0%		-4.6		
2.5%		-4.6		
0.5%		-4.6		
0.0%	minimum	-4.6		

Distributions Analyte_Detection=Uranium-238 Alpha Spectrometry

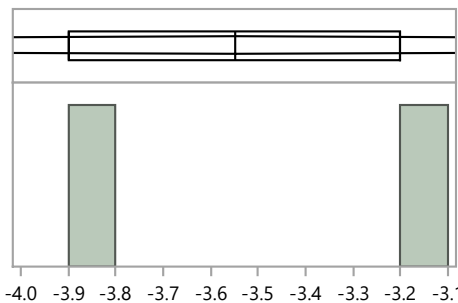
Bias



Quantiles		Summary Statistics		
100.0%	maximum	12.6	Mean	2.6
99.5%		12.6	Std Dev	7.3
97.5%		12.6	Std Err Mean	3.0
90.0%		12.6	Upper 95% Mean	10.3
75.0%	quartile	9.0	Lower 95% Mean	-5.1
50.0%	median	2.4	N	6.0
25.0%	quartile	-3.9		
10.0%		-6.8		
2.5%		-6.8		
0.5%		-6.8		
0.0%	minimum	-6.8		

Distributions Analyte_Detection=Uranium-238 Inductively Coupled Plasma Mass Spectrometry

Bias

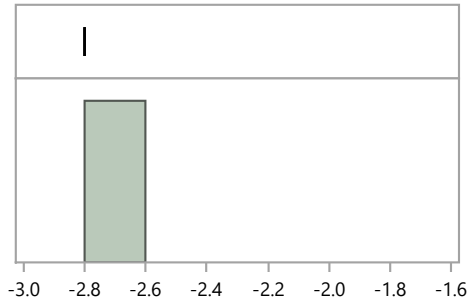


Quantiles		Summary Statistics		
100.0%	maximum	-3.2	Mean	-3.6
99.5%		-3.2	Std Dev	0.5
97.5%		-3.2	Std Err Mean	0.3
90.0%		-3.2	Upper 95% Mean	0.9
75.0%	quartile	-3.2	Lower 95% Mean	-8.0
50.0%	median	-3.6	N	2.0
25.0%	quartile	-3.9		
10.0%		-3.9		
2.5%		-3.9		
0.5%		-3.9		
0.0%	minimum	-3.9		

MaU Distribution by Detection Method

Distributions Analyte_Detection=Uranium-Total Inductively Coupled Plasma Mass Spectrometry

Bias



Quantiles

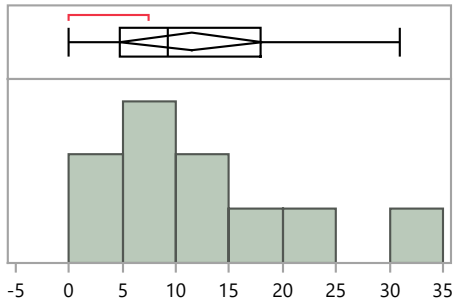
100.0%	maximum	-2.8
99.5%		-2.8
97.5%		-2.8
90.0%		-2.8
75.0%	quartile	-2.8
50.0%	median	-2.8
25.0%	quartile	-2.8
10.0%		-2.8
2.5%		-2.8
0.5%		-2.8
0.0%	minimum	-2.8

Summary Statistics

Mean	-2.8
Std Dev	.
Std Err Mean	.
Upper 95% Mean	.
Lower 95% Mean	.
N	1.0

Distributions Analyte_Detection=Zinc-65 Gamma Spectrometry

Bias



Quantiles

100.0%	maximum	31.0
99.5%		31.0
97.5%		31.0
90.0%		30.0
75.0%	quartile	17.9
50.0%	median	9.3
25.0%	quartile	4.7
10.0%		0.4
2.5%		0.0
0.5%		0.0
0.0%	minimum	0.0

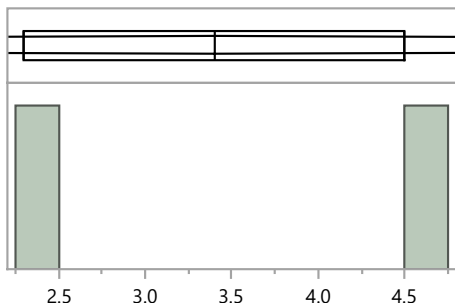
Summary Statistics

Mean	11.5
Std Dev	9.3
Std Err Mean	3.0
Upper 95% Mean	18.1
Lower 95% Mean	4.8
N	10.0

MaU Distribution by Prep Method

Distributions Analyte_Method=Cesium-134 EPA 901.1, Gamma Emitting, 600/4-80-032

Bias



Quantiles

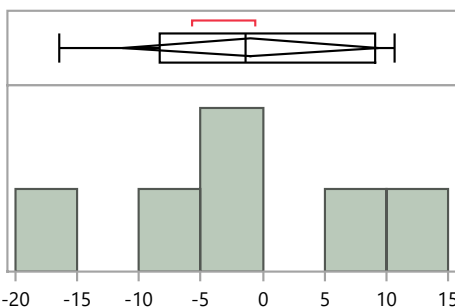
100.0%	maximum	4.5
99.5%		4.5
97.5%		4.5
90.0%		4.5
75.0%	quartile	4.5
50.0%	median	3.4
25.0%	quartile	2.3
10.0%		2.3
2.5%		2.3
0.5%		2.3
0.0%	minimum	2.3

Summary Statistics

Mean	3.4
Std Dev	1.6
Std Err Mean	1.1
Upper 95% Mean	17.4
Lower 95% Mean	-10.6
N	2.0

Distributions Analyte_Method=Cesium-134 No preparation - analyzed as received

Bias



Quantiles

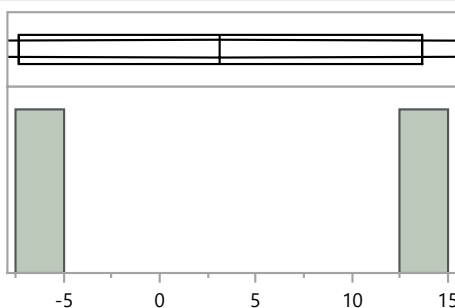
100.0%	maximum	10.7
99.5%		10.7
97.5%		10.7
90.0%		10.7
75.0%	quartile	9.1
50.0%	median	-1.5
25.0%	quartile	-8.4
10.0%		-16.4
2.5%		-16.4
0.5%		-16.4
0.0%	minimum	-16.4

Summary Statistics

Mean	-1.0
Std Dev	9.9
Std Err Mean	4.0
Upper 95% Mean	9.4
Lower 95% Mean	-11.3
N	6.0

Distributions Analyte_Method=Cesium-134 Other

Bias



Quantiles

100.0%	maximum	13.6
99.5%		13.6
97.5%		13.6
90.0%		13.6
75.0%	quartile	13.6
50.0%	median	3.2
25.0%	quartile	-7.3
10.0%		-7.3
2.5%		-7.3
0.5%		-7.3
0.0%	minimum	-7.3

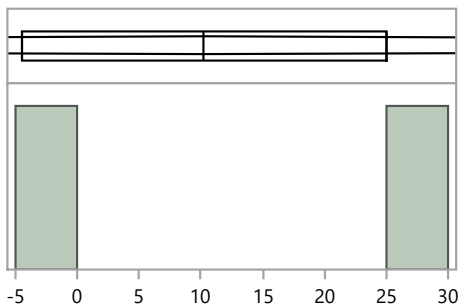
Summary Statistics

Mean	3.2
Std Dev	14.8
Std Err Mean	10.5
Upper 95% Mean	135.9
Lower 95% Mean	-129.6
N	2.0

MaU Distribution by Prep Method

Distributions Analyte_Method=Cesium-137 EPA 901.1, Gamma Emitting, 600/4-80-032

Bias



Quantiles

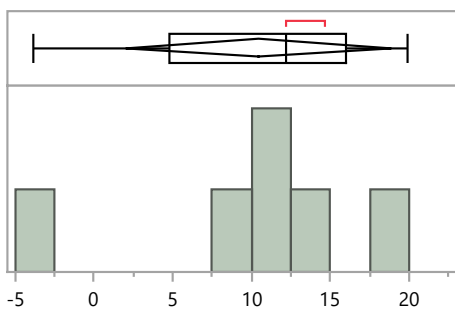
100.0%	maximum	25.0
99.5%		25.0
97.5%		25.0
90.0%		25.0
75.0%	quartile	25.0
50.0%	median	10.3
25.0%	quartile	-4.5
10.0%		-4.5
2.5%		-4.5
0.5%		-4.5
0.0%	minimum	-4.5

Summary Statistics

Mean	10.3
Std Dev	20.9
Std Err Mean	14.8
Upper 95% Mean	197.7
Lower 95% Mean	-177.2
N	2.0

Distributions Analyte_Method=Cesium-137 No preparation - analyzed as received

Bias



Quantiles

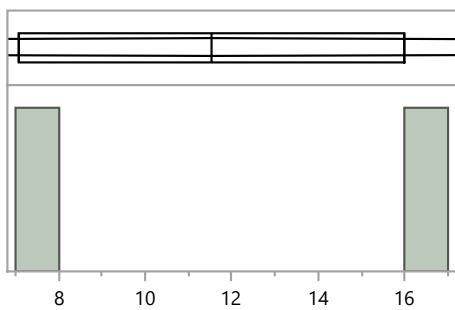
100.0%	maximum	19.9
99.5%		19.9
97.5%		19.9
90.0%		19.9
75.0%	quartile	16.0
50.0%	median	12.2
25.0%	quartile	4.8
10.0%		-3.8
2.5%		-3.8
0.5%		-3.8
0.0%	minimum	-3.8

Summary Statistics

Mean	10.5
Std Dev	8.1
Std Err Mean	3.3
Upper 95% Mean	18.9
Lower 95% Mean	2.0
N	6.0

Distributions Analyte_Method=Cesium-137 Other

Bias



Quantiles

100.0%	maximum	16.0
99.5%		16.0
97.5%		16.0
90.0%		16.0
75.0%	quartile	16.0
50.0%	median	11.6
25.0%	quartile	7.1
10.0%		7.1
2.5%		7.1
0.5%		7.1
0.0%	minimum	7.1

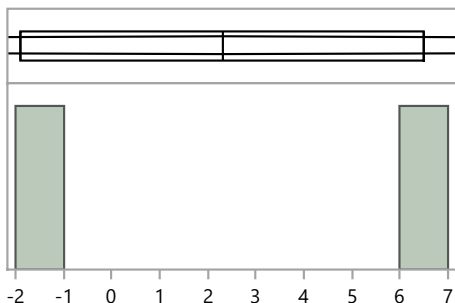
Summary Statistics

Mean	11.6
Std Dev	6.3
Std Err Mean	4.5
Upper 95% Mean	68.1
Lower 95% Mean	-45.0
N	2.0

MaU Distribution by Prep Method

Distributions Analyte_Method=Cobalt-57 EPA 901.1, Gamma Emitting, 600/4-80-032

Bias



Quantiles

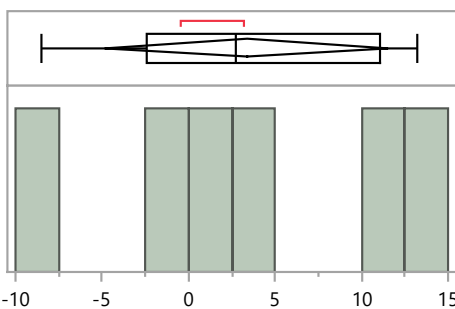
100.0%	maximum	6.5
99.5%		6.5
97.5%		6.5
90.0%		6.5
75.0%	quartile	6.5
50.0%	median	2.3
25.0%	quartile	-1.9
10.0%		-1.9
2.5%		-1.9
0.5%		-1.9
0.0%	minimum	-1.9

Summary Statistics

Mean	2.3
Std Dev	5.9
Std Err Mean	4.2
Upper 95% Mean	55.7
Lower 95% Mean	-51.1
N	2.0

Distributions Analyte_Method=Cobalt-57 No preparation - analyzed as received

Bias



Quantiles

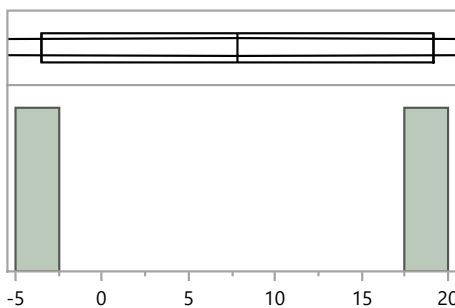
100.0%	maximum	13.2
99.5%		13.2
97.5%		13.2
90.0%		13.2
75.0%	quartile	11.1
50.0%	median	2.7
25.0%	quartile	-2.4
10.0%		-8.5
2.5%		-8.5
0.5%		-8.5
0.0%	minimum	-8.5

Summary Statistics

Mean	3.4
Std Dev	7.8
Std Err Mean	3.2
Upper 95% Mean	11.5
Lower 95% Mean	-4.8
N	6.0

Distributions Analyte_Method=Cobalt-57 Other

Bias



Quantiles

100.0%	maximum	19.1
99.5%		19.1
97.5%		19.1
90.0%		19.1
75.0%	quartile	19.1
50.0%	median	7.8
25.0%	quartile	-3.5
10.0%		-3.5
2.5%		-3.5
0.5%		-3.5
0.0%	minimum	-3.5

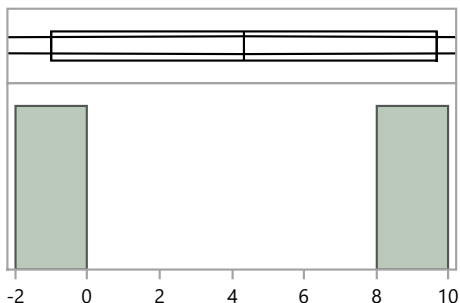
Summary Statistics

Mean	7.8
Std Dev	16.0
Std Err Mean	11.3
Upper 95% Mean	151.4
Lower 95% Mean	-135.8
N	2.0

MaU Distribution by Prep Method

Distributions Analyte_Method=Cobalt-60 EPA 901.1, Gamma Emitting, 600/4-80-032

Bias



Quantiles

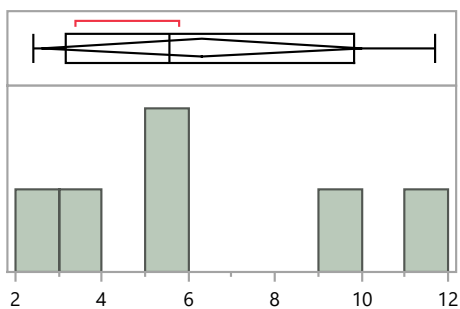
100.0%	maximum	9.7
99.5%		9.7
97.5%		9.7
90.0%		9.7
75.0%	quartile	9.7
50.0%	median	4.4
25.0%	quartile	-1.0
10.0%		-1.0
2.5%		-1.0
0.5%		-1.0
0.0%	minimum	-1.0

Summary Statistics

Mean	4.4
Std Dev	7.6
Std Err Mean	5.3
Upper 95% Mean	72.3
Lower 95% Mean	-63.6
N	2.0

Distributions Analyte_Method=Cobalt-60 No preparation - analyzed as received

Bias



Quantiles

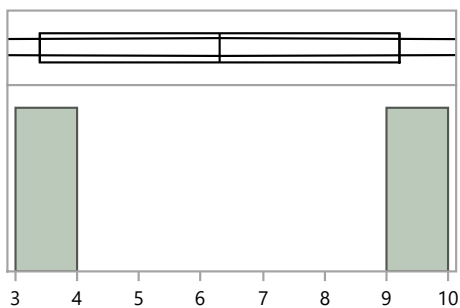
100.0%	maximum	11.7
99.5%		11.7
97.5%		11.7
90.0%		11.7
75.0%	quartile	9.8
50.0%	median	5.6
25.0%	quartile	3.2
10.0%		2.4
2.5%		2.4
0.5%		2.4
0.0%	minimum	2.4

Summary Statistics

Mean	6.3
Std Dev	3.5
Std Err Mean	1.4
Upper 95% Mean	10.0
Lower 95% Mean	2.6
N	6.0

Distributions Analyte_Method=Cobalt-60 Other

Bias



Quantiles

100.0%	maximum	9.2
99.5%		9.2
97.5%		9.2
90.0%		9.2
75.0%	quartile	9.2
50.0%	median	6.3
25.0%	quartile	3.4
10.0%		3.4
2.5%		3.4
0.5%		3.4
0.0%	minimum	3.4

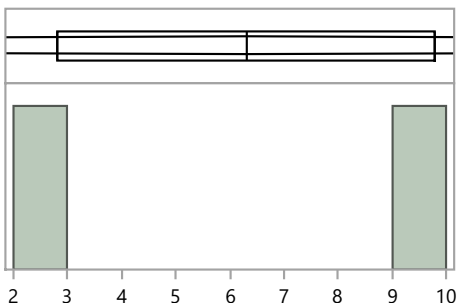
Summary Statistics

Mean	6.3
Std Dev	4.1
Std Err Mean	2.9
Upper 95% Mean	43.1
Lower 95% Mean	-30.5
N	2.0

MaU Distribution by Prep Method

Distributions Analyte_Method=Manganese-54 EPA 901.1, Gamma Emitting, 600/4-80-032

Bias



Quantiles

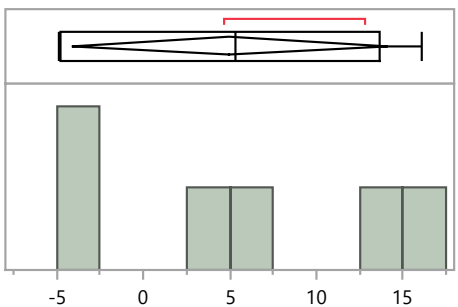
100.0%	maximum	9.8
99.5%		9.8
97.5%		9.8
90.0%		9.8
75.0%	quartile	9.8
50.0%	median	6.3
25.0%	quartile	2.8
10.0%		2.8
2.5%		2.8
0.5%		2.8
0.0%	minimum	2.8

Summary Statistics

Mean	6.3
Std Dev	4.9
Std Err Mean	3.5
Upper 95% Mean	50.8
Lower 95% Mean	-38.2
N	2.0

Distributions Analyte_Method=Manganese-54 No preparation - analyzed as received

Bias



Quantiles

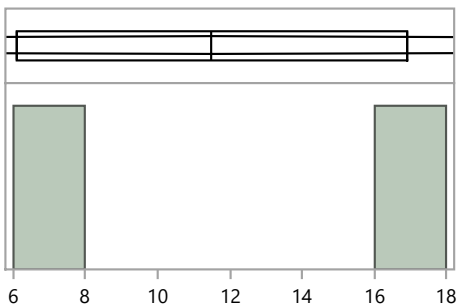
100.0%	maximum	16.1
99.5%		16.1
97.5%		16.1
90.0%		16.1
75.0%	quartile	13.6
50.0%	median	5.3
25.0%	quartile	-4.8
10.0%		-4.9
2.5%		-4.9
0.5%		-4.9
0.0%	minimum	-4.9

Summary Statistics

Mean	5.0
Std Dev	8.7
Std Err Mean	3.5
Upper 95% Mean	14.1
Lower 95% Mean	-4.1
N	6.0

Distributions Analyte_Method=Manganese-54 Other

Bias



Quantiles

100.0%	maximum	16.9
99.5%		16.9
97.5%		16.9
90.0%		16.9
75.0%	quartile	16.9
50.0%	median	11.5
25.0%	quartile	6.1
10.0%		6.1
2.5%		6.1
0.5%		6.1
0.0%	minimum	6.1

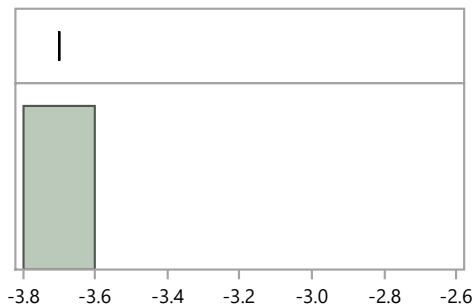
Summary Statistics

Mean	11.5
Std Dev	7.6
Std Err Mean	5.4
Upper 95% Mean	80.1
Lower 95% Mean	-57.1
N	2.0

MaU Distribution by Prep Method

Distributions Analyte_Method=Nickel-63 Other

Bias



Quantiles

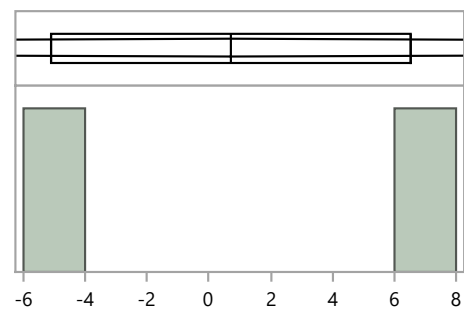
100.0%	maximum	-3.7
99.5%		-3.7
97.5%		-3.7
90.0%		-3.7
75.0%	quartile	-3.7
50.0%	median	-3.7
25.0%	quartile	-3.7
10.0%		-3.7
2.5%		-3.7
0.5%		-3.7
0.0%	minimum	-3.7

Summary Statistics

Mean	-3.7
Std Dev	.
Std Err Mean	.
Upper 95% Mean	.
Lower 95% Mean	.
N	1.0

Distributions Analyte_Method=Plutonium-239/240 Coprecipitation, acidified

Bias



Quantiles

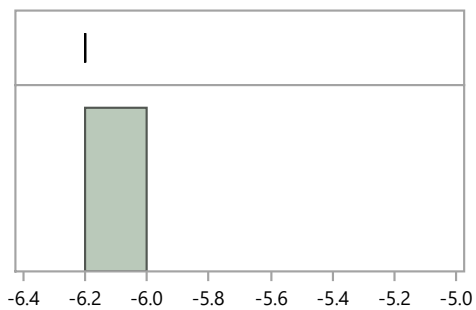
100.0%	maximum	6.5
99.5%		6.5
97.5%		6.5
90.0%		6.5
75.0%	quartile	6.5
50.0%	median	0.7
25.0%	quartile	-5.1
10.0%		-5.1
2.5%		-5.1
0.5%		-5.1
0.0%	minimum	-5.1

Summary Statistics

Mean	0.7
Std Dev	8.2
Std Err Mean	5.8
Upper 95% Mean	74.4
Lower 95% Mean	-73.0
N	2.0

Distributions Analyte_Method=Plutonium-239/240 Coprecipitation, straight

Bias



Quantiles

100.0%	maximum	-6.2
99.5%		-6.2
97.5%		-6.2
90.0%		-6.2
75.0%	quartile	-6.2
50.0%	median	-6.2
25.0%	quartile	-6.2
10.0%		-6.2
2.5%		-6.2
0.5%		-6.2
0.0%	minimum	-6.2

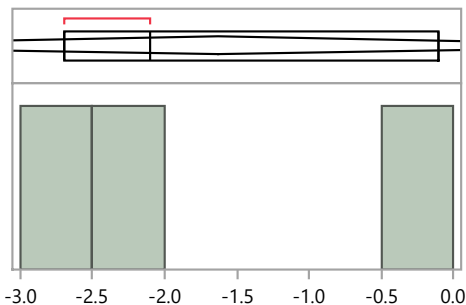
Summary Statistics

Mean	-6.2
Std Dev	.
Std Err Mean	.
Upper 95% Mean	.
Lower 95% Mean	.
N	1.0

MaU Distribution by Prep Method

Distributions Analyte_Method=Plutonium-239/240 Ion Exchange Chromatography / Ion Chromatography

Bias



Quantiles

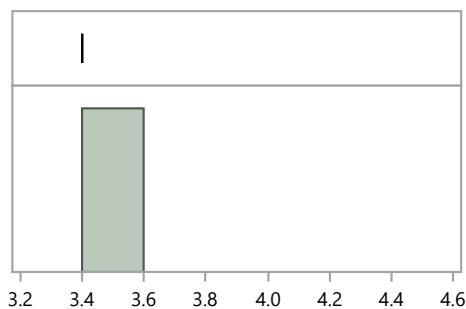
100.0%	maximum	-0.1
99.5%		-0.1
97.5%		-0.1
90.0%		-0.1
75.0%	quartile	-0.1
50.0%	median	-2.1
25.0%	quartile	-2.7
10.0%		-2.7
2.5%		-2.7
0.5%		-2.7
0.0%	minimum	-2.7

Summary Statistics

Mean	-1.6
Std Dev	1.4
Std Err Mean	0.8
Upper 95% Mean	1.7
Lower 95% Mean	-5.0
N	3.0

Distributions Analyte_Method=Plutonium-239/240 No preparation - analyzed as received

Bias



Quantiles

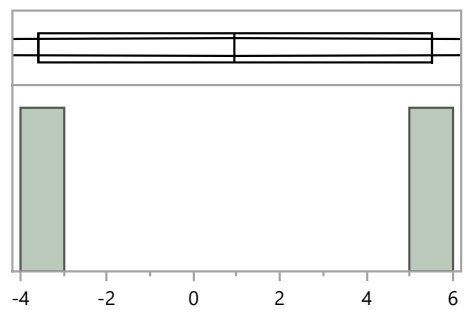
100.0%	maximum	3.4
99.5%		3.4
97.5%		3.4
90.0%		3.4
75.0%	quartile	3.4
50.0%	median	3.4
25.0%	quartile	3.4
10.0%		3.4
2.5%		3.4
0.5%		3.4
0.0%	minimum	3.4

Summary Statistics

Mean	3.4
Std Dev	.
Std Err Mean	.
Upper 95% Mean	.
Lower 95% Mean	.
N	1.0

Distributions Analyte_Method=Plutonium-239/240 Other

Bias



Quantiles

100.0%	maximum	5.5
99.5%		5.5
97.5%		5.5
90.0%		5.5
75.0%	quartile	5.5
50.0%	median	1.0
25.0%	quartile	-3.6
10.0%		-3.6
2.5%		-3.6
0.5%		-3.6
0.0%	minimum	-3.6

Summary Statistics

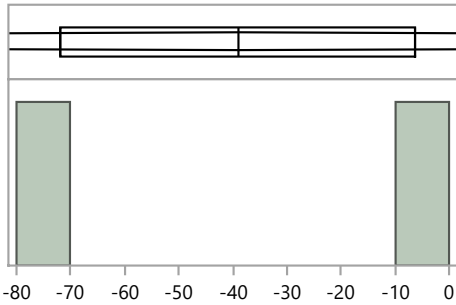
Mean	1.0
Std Dev	6.4
Std Err Mean	4.6
Upper 95% Mean	58.8
Lower 95% Mean	-56.9
N	2.0

MaSU46 Distribution by Preparation Method

MaU Distribution by Prep Method

Distributions Analyte_Method=Strontium-90 Coprecipitation, acidified

Bias



Quantiles

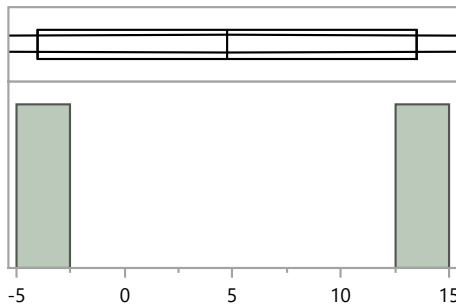
100.0%	maximum	-6.3
99.5%		-6.3
97.5%		-6.3
90.0%		-6.3
75.0%	quartile	-6.3
50.0%	median	-39.1
25.0%	quartile	-71.9
10.0%		-71.9
2.5%		-71.9
0.5%		-71.9
0.0%	minimum	-71.9

Summary Statistics

Mean	-39.1
Std Dev	46.4
Std Err Mean	32.8
Upper 95% Mean	377.7
Lower 95% Mean	-455.9
N	2.0

Distributions Analyte_Method=Strontium-90 Ion Exchange Chromatography / Ion Chromatography

Bias



Quantiles

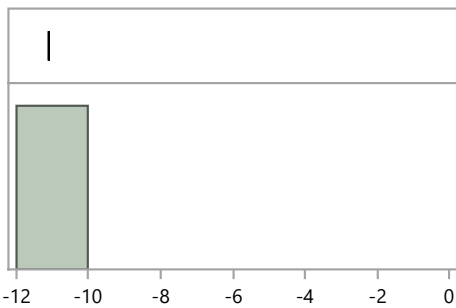
100.0%	maximum	13.5
99.5%		13.5
97.5%		13.5
90.0%		13.5
75.0%	quartile	13.5
50.0%	median	4.8
25.0%	quartile	-4.0
10.0%		-4.0
2.5%		-4.0
0.5%		-4.0
0.0%	minimum	-4.0

Summary Statistics

Mean	4.8
Std Dev	12.4
Std Err Mean	8.8
Upper 95% Mean	115.9
Lower 95% Mean	-106.4
N	2.0

Distributions Analyte_Method=Strontium-90 No preparation - analyzed as received

Bias



Quantiles

100.0%	maximum	-11.1
99.5%		-11.1
97.5%		-11.1
90.0%		-11.1
75.0%	quartile	-11.1
50.0%	median	-11.1
25.0%	quartile	-11.1
10.0%		-11.1
2.5%		-11.1
0.5%		-11.1
0.0%	minimum	-11.1

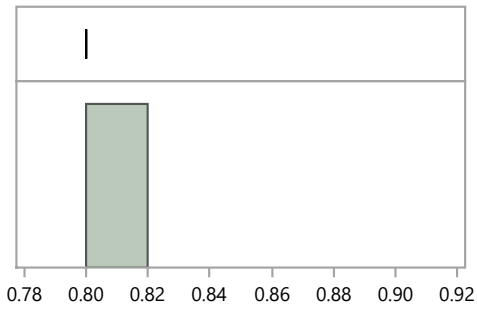
Summary Statistics

Mean	-11.1
Std Dev	.
Std Err Mean	.
Upper 95% Mean	.
Lower 95% Mean	.
N	1.0

MaU Distribution by Prep Method

Distributions Analyte_Method=Strontium-90 Other

Bias



Quantiles

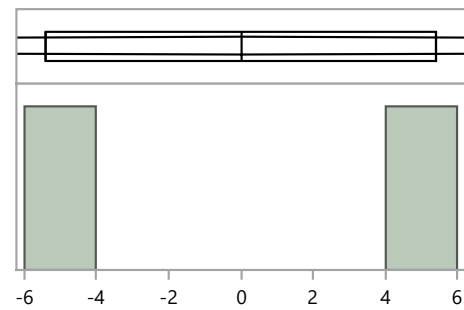
100.0%	maximum	0.8
99.5%		0.8
97.5%		0.8
90.0%		0.8
75.0%	quartile	0.8
50.0%	median	0.8
25.0%	quartile	0.8
10.0%		0.8
2.5%		0.8
0.5%		0.8
0.0%	minimum	0.8

Summary Statistics

Mean	0.8
Std Dev	.
Std Err Mean	.
Upper 95% Mean	.
Lower 95% Mean	.
N	1.0

Distributions Analyte_Method=Uranium-234 Coprecipitation, acidified

Bias



Quantiles

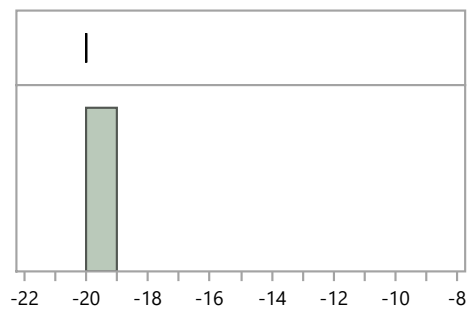
100.0%	maximum	5.4
99.5%		5.4
97.5%		5.4
90.0%		5.4
75.0%	quartile	5.4
50.0%	median	0.0
25.0%	quartile	-5.4
10.0%		-5.4
2.5%		-5.4
0.5%		-5.4
0.0%	minimum	-5.4

Summary Statistics

Mean	0.0
Std Dev	7.6
Std Err Mean	5.4
Upper 95% Mean	68.6
Lower 95% Mean	-68.6
N	2.0

Distributions Analyte_Method=Uranium-234 Coprecipitation, straight

Bias



Quantiles

100.0%	maximum	-20.0
99.5%		-20.0
97.5%		-20.0
90.0%		-20.0
75.0%	quartile	-20.0
50.0%	median	-20.0
25.0%	quartile	-20.0
10.0%		-20.0
2.5%		-20.0
0.5%		-20.0
0.0%	minimum	-20.0

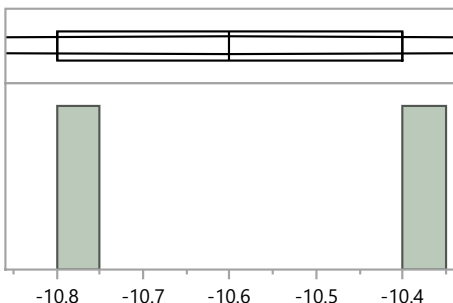
Summary Statistics

Mean	-20.0
Std Dev	.
Std Err Mean	.
Upper 95% Mean	.
Lower 95% Mean	.
N	1.0

MaU Distribution by Prep Method

Distributions Analyte_Method=Uranium-234 Ion Exchange Chromatography / Ion Chromatography

Bias



Quantiles

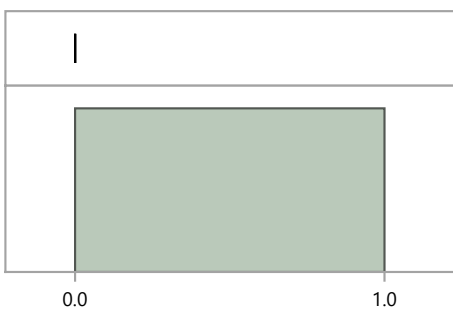
100.0%	maximum	-10.4
99.5%		-10.4
97.5%		-10.4
90.0%		-10.4
75.0%	quartile	-10.4
50.0%	median	-10.6
25.0%	quartile	-10.8
10.0%		-10.8
2.5%		-10.8
0.5%		-10.8
0.0%	minimum	-10.8

Summary Statistics

Mean	-10.6
Std Dev	0.3
Std Err Mean	0.2
Upper 95% Mean	-8.1
Lower 95% Mean	-13.1
N	2.0

Distributions Analyte_Method=Uranium-234 No preparation - analyzed as received

Bias



Quantiles

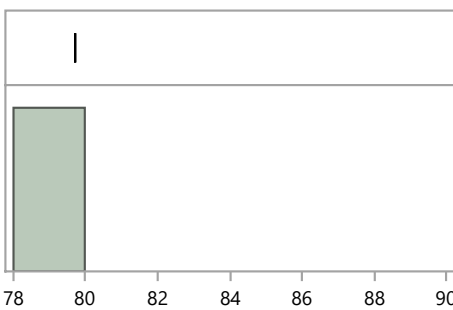
100.0%	maximum	0.0
99.5%		0.0
97.5%		0.0
90.0%		0.0
75.0%	quartile	0.0
50.0%	median	0.0
25.0%	quartile	0.0
10.0%		0.0
2.5%		0.0
0.5%		0.0
0.0%	minimum	0.0

Summary Statistics

Mean	0.0
Std Dev	.
Std Err Mean	.
Upper 95% Mean	.
Lower 95% Mean	.
N	1.0

Distributions Analyte_Method=Uranium-234 Other

Bias



Quantiles

100.0%	maximum	79.7
99.5%		79.7
97.5%		79.7
90.0%		79.7
75.0%	quartile	79.7
50.0%	median	79.7
25.0%	quartile	79.7
10.0%		79.7
2.5%		79.7
0.5%		79.7
0.0%	minimum	79.7

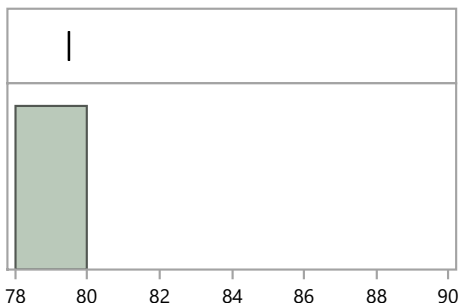
Summary Statistics

Mean	79.7
Std Dev	.
Std Err Mean	.
Upper 95% Mean	.
Lower 95% Mean	.
N	1.0

MaU Distribution by Prep Method

Distributions Analyte_Method=Uranium-235 EPA Method 200.8 Trace Metals in Waters & Wastes

Bias



Quantiles

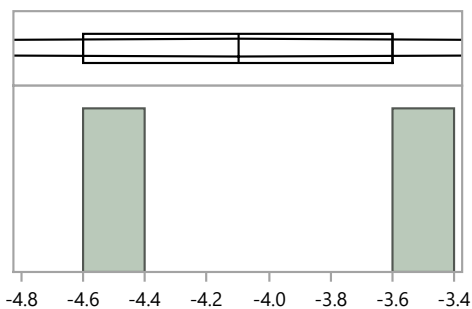
100.0%	maximum	79.5
99.5%		79.5
97.5%		79.5
90.0%		79.5
75.0%	quartile	79.5
50.0%	median	79.5
25.0%	quartile	79.5
10.0%		79.5
2.5%		79.5
0.5%		79.5
0.0%	minimum	79.5

Summary Statistics

Mean	79.5
Std Dev	.
Std Err Mean	.
Upper 95% Mean	.
Lower 95% Mean	.
N	1.0

Distributions Analyte_Method=Uranium-235 Other

Bias



Quantiles

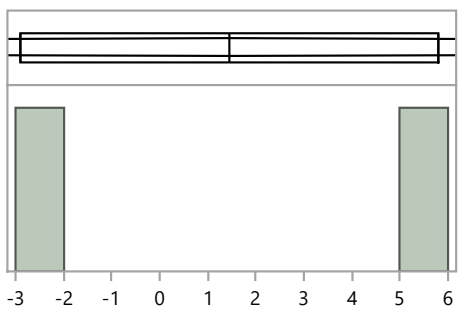
100.0%	maximum	-3.6
99.5%		-3.6
97.5%		-3.6
90.0%		-3.6
75.0%	quartile	-3.6
50.0%	median	-4.1
25.0%	quartile	-4.6
10.0%		-4.6
2.5%		-4.6
0.5%		-4.6
0.0%	minimum	-4.6

Summary Statistics

Mean	-4.1
Std Dev	0.7
Std Err Mean	0.5
Upper 95% Mean	2.3
Lower 95% Mean	-10.5
N	2.0

Distributions Analyte_Method=Uranium-238 Coprecipitation, acidified

Bias



Quantiles

100.0%	maximum	5.8
99.5%		5.8
97.5%		5.8
90.0%		5.8
75.0%	quartile	5.8
50.0%	median	1.5
25.0%	quartile	-2.9
10.0%		-2.9
2.5%		-2.9
0.5%		-2.9
0.0%	minimum	-2.9

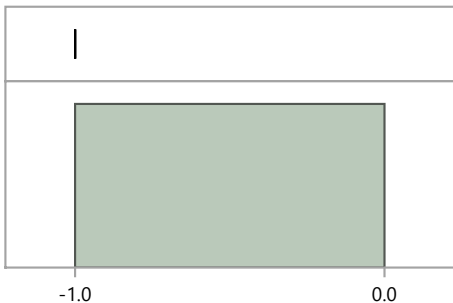
Summary Statistics

Mean	1.5
Std Dev	6.2
Std Err Mean	4.4
Upper 95% Mean	56.7
Lower 95% Mean	-53.8
N	2.0

MaU Distribution by Prep Method

Distributions Analyte_Method=Uranium-238 Coprecipitation, straight

Bias



Quantiles

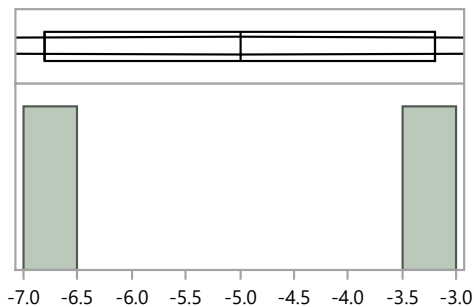
100.0%	maximum	-1.0
99.5%		-1.0
97.5%		-1.0
90.0%		-1.0
75.0%	quartile	-1.0
50.0%	median	-1.0
25.0%	quartile	-1.0
10.0%		-1.0
2.5%		-1.0
0.5%		-1.0
0.0%	minimum	-1.0

Summary Statistics

Mean	-1.0
Std Dev	.
Std Err Mean	.
Upper 95% Mean	.
Lower 95% Mean	.
N	1.0

Distributions Analyte_Method=Uranium-238 Ion Exchange Chromatography / Ion Chromatography

Bias



Quantiles

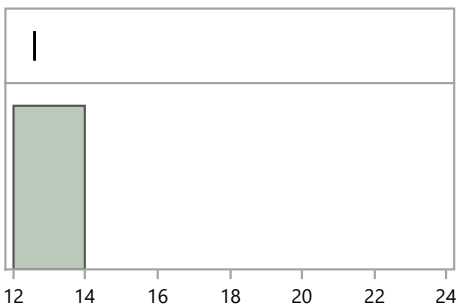
100.0%	maximum	-3.2
99.5%		-3.2
97.5%		-3.2
90.0%		-3.2
75.0%	quartile	-3.2
50.0%	median	-5.0
25.0%	quartile	-6.8
10.0%		-6.8
2.5%		-6.8
0.5%		-6.8
0.0%	minimum	-6.8

Summary Statistics

Mean	-5.0
Std Dev	2.5
Std Err Mean	1.8
Upper 95% Mean	17.9
Lower 95% Mean	-27.9
N	2.0

Distributions Analyte_Method=Uranium-238 No preparation - analyzed as received

Bias



Quantiles

100.0%	maximum	12.6
99.5%		12.6
97.5%		12.6
90.0%		12.6
75.0%	quartile	12.6
50.0%	median	12.6
25.0%	quartile	12.6
10.0%		12.6
2.5%		12.6
0.5%		12.6
0.0%	minimum	12.6

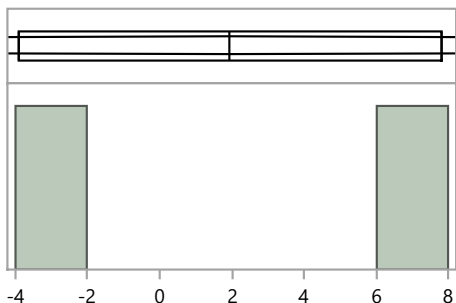
Summary Statistics

Mean	12.6
Std Dev	.
Std Err Mean	.
Upper 95% Mean	.
Lower 95% Mean	.
N	1.0

MaU Distribution by Prep Method

Distributions Analyte_Method=Uranium-238 Other

Bias



Quantiles

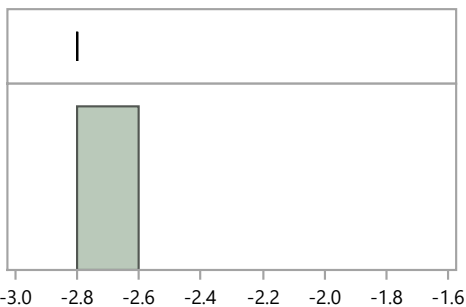
100.0%	maximum	7.8
99.5%		7.8
97.5%		7.8
90.0%		7.8
75.0%	quartile	7.8
50.0%	median	2.0
25.0%	quartile	-3.9
10.0%		-3.9
2.5%		-3.9
0.5%		-3.9
0.0%	minimum	-3.9

Summary Statistics

Mean	2.0
Std Dev	8.3
Std Err Mean	5.9
Upper 95% Mean	76.3
Lower 95% Mean	-72.4
N	2.0

Distributions Analyte_Method=Uranium-Total Other

Bias



Quantiles

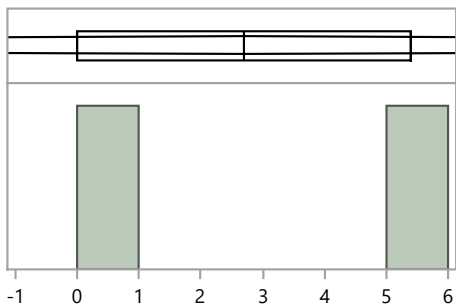
100.0%	maximum	-2.8
99.5%		-2.8
97.5%		-2.8
90.0%		-2.8
75.0%	quartile	-2.8
50.0%	median	-2.8
25.0%	quartile	-2.8
10.0%		-2.8
2.5%		-2.8
0.5%		-2.8
0.0%	minimum	-2.8

Summary Statistics

Mean	-2.8
Std Dev	.
Std Err Mean	.
Upper 95% Mean	.
Lower 95% Mean	.
N	1.0

Distributions Analyte_Method=Zinc-65 EPA 901.1, Gamma Emitting, 600/4-80-032

Bias



Quantiles

100.0%	maximum	5.4
99.5%		5.4
97.5%		5.4
90.0%		5.4
75.0%	quartile	5.4
50.0%	median	2.7
25.0%	quartile	0.0
10.0%		0.0
2.5%		0.0
0.5%		0.0
0.0%	minimum	0.0

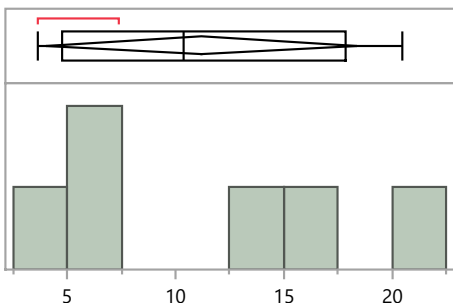
Summary Statistics

Mean	2.7
Std Dev	3.8
Std Err Mean	2.7
Upper 95% Mean	37.0
Lower 95% Mean	-31.6
N	2.0

MaU Distribution by Prep Method

Distributions Analyte_Method=Zinc-65 No preparation - analyzed as received

Bias



Quantiles

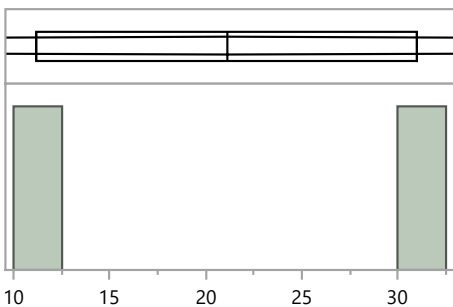
100.0%	maximum	20.5
99.5%		20.5
97.5%		20.5
90.0%		20.5
75.0%	quartile	17.9
50.0%	median	10.4
25.0%	quartile	4.7
10.0%		3.6
2.5%		3.6
0.5%		3.6
0.0%	minimum	3.6

Summary Statistics

Mean	11.2
Std Dev	6.8
Std Err Mean	2.8
Upper 95% Mean	18.4
Lower 95% Mean	4.0
N	6.0

Distributions Analyte_Method=Zinc-65 Other

Bias



Quantiles

100.0%	maximum	31.0
99.5%		31.0
97.5%		31.0
90.0%		31.0
75.0%	quartile	31.0
50.0%	median	21.1
25.0%	quartile	11.2
10.0%		11.2
2.5%		11.2
0.5%		11.2
0.0%	minimum	11.2

Summary Statistics

Mean	21.1
Std Dev	14.0
Std Err Mean	9.9
Upper 95% Mean	146.9
Lower 95% Mean	-104.7
N	2.0