

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.

RdF53 Participating Laboratories

Lab Code	Lab Name	Matrix Code
ADEM01	Alabama Department of Environmental Management	RdF
ADFC99	Abu Dhabi Quality and Conformity Council-Central Testing Lab	RdF
AFOH01	USAFSAM/OEA	RdF
AMEC99	Amentum Clean Energy Ltd	RdF
ANLB01	Argonne National Laboratory	RdF
ARPL01	Analytical Support Operations - Radiochemical Processing Lab	RdF
ARSL01	ARS	RdF
BSCE99	Supreme Council for Environment	RdF
CESL01	Lawrence Livermore National Laboratory - EMRL	RdF
CMRC01	Carlsbad Environmental Monitoring and Research Center	RdF
COPS99	Health Canada Radiation Protection Bureau	RdF
DEHS01	Department of Environmental Health & Safety	RdF
ERCL01	Washington State Public Health Laboratories	RdF
ERHD99	National Monitoring Section, Radiation Protection Bureau, Health Canada	RdF
FANR79	Federal Authority for Nuclear Regulation, Environmental Laboratory	RdF
FDHE01	Florida Dept of Health Environmental Laboratory	RdF
FDOH01	Florida Dept. of Health, Mobile Environmental Radiological Lab	RdF
FNAL01	Fermi National Accelerator Laboratory (FermiLab)	RdF
GENE01	GEL Laboratories, LLC	RdF
GPCL01	Georgia Power Company Environmental Laboratory	RdF
HECR01	SC Department of Environmental Services	RdF
HPAC99	UKHSA, RCE Glasgow	RdF
HPAL01	Los Alamos National Laboratory	RdF
IAEA59	IAEA-Equipment Radiation Monitoring Laboratory	RdF
IAEA99	International Atomic Energy Agency	RdF
IEMA01	Illinois Emergency Management Agency Radiochemistry Laboratory	RdF
ISUE01	ISU Environmental Monitoring Laboratory	RdF
JLNN01	Jefferson Laboratory	RdF
JNRC99	Energy and Mineral Regulatory Commission	RdF
LAWR01	LAWRENCE BERKELEY NATIONAL LABORATORY	RdF
LOCK03	Advanced Test Reactor (ATR) Complex Radioanalytical Laboratory	RdF
MART01	Southern Ohio Cleanup Company LLC	RdF
MART03	Radioactive Material Analysis Laboratory	RdF
MNDH01	Minnesota Department of Health, Public Health Lab. Division	RdF
NARL01	National Analytical Radiation Environmental Laboratory	RdF
NESI01	BWXT-Radioisotope & Analytical Chemistry Laboratory	RdF
NJDH01	New Jersey Dept. of Health, ECLS	RdF
NOCS99	National Oceanography Centre, Southampton	RdF
ODHL01	Ohio Department of Health Laboratory	RdF
RPSC01	Radiation Protection Service	RdF
SEML01	SRS Environmental Monitoring Laboratory	RdF
SLDA01	USACE SLDA FUSRAP Project	RdF
SMER01	State of Michigan EGLE Radiological Lab	RdF
SOUT01	Southwest Research Institute	RdF

SRPD01	Sandia National Laboratories, Radiation Protection Sample Diagnostics	RdF
STRL01	South Texas Project Radiological Laboratory	RdF
TDHL01	Texas Department of State Health Services Laboratory	RdF
TMAO01	EBERLINE Analytical Corporation	RdF
WIPH01	WI, DPH, Radiation Protection Section	RdF
WMGS01	Westinghouse (Waltz Mill Gamma Spectroscopy Lab)	RdF
WSHL01	Wisconsin State Laboratory of Hygiene	RdF
WSTP99	Cavendish Nuclear Limited	RdF
WVDP01	WVDP Environmental Laboratory	RdF
YPGA01	US Army Yuma Proving Ground / Material Analysis Lab	RdF

Laboratories Not Reporting

Lab Code	Lab Name	Matrix Code
ASUK99	AWE (Aldermaston)	RdF
MDPH01	MDPH-Division of Radiation Control	RdF
SANC99	RadioAnalysis, South Africa Nuclear Energy Corp.	RdF
TELE02	Microbac Laboratories Inc. - Northbrook	RdF
WIPP01	WIPP Laboratories	RdF

Study Reference Values

MAPEP-25-RdF53

Radiological Reference Date: 08/01/2025

Analyte	Ref Value	Ref Unc	Units
Inorganic			
Uranium-235	0.0230	0.0013	(ug/sample)
Uranium-238	3.18	0.10	(ug/sample)
Uranium-Total	3.21	0.10	(ug/sample)

Analyte	Ref Value	Ref Unc	Units
Radiological			
Americium-241	0.0364	0.0010	(Bq/sample)
Cesium-134	0.802	0.018	(Bq/sample)
Cesium-137	0.512	0.010	(Bq/sample)
Cobalt-57	1.13	0.03	(Bq/sample)
Manganese-54	1.07	0.02	(Bq/sample)
Plutonium-238	0.0538	0.0011	(Bq/sample)
Plutonium-239/240	0.0527	0.0012	(Bq/sample)
Strontium-90	1.15	0.03	(Bq/sample)
Uranium-234	0.0381	0.0012	(Bq/sample)
Uranium-238	0.0396	0.0012	(Bq/sample)
Zinc-65	1.51	0.03	(Bq/sample)

Sample Statistical Summary

MAPEP-25-RdF53

Radiological Reference Date: 08/01/2025

Analyte	T(1)	A(2)	Grand(3) Mean	Std Dev	Ref Value	Ref Unc	Acceptance Range	Units
Inorganic								
Uranium-235	7	6	0.0223	0.0007	0.0230	0.0013	0.0161 - 0.0299	(ug/sample)
Uranium-238	7	6	3.11	0.23	3.18	0.10	2.23 - 4.13	(ug/sample)
Uranium-Total	6	5			3.21	0.10	2.25 - 4.17	(ug/sample)

Analyte	T(1)	A(2)	Grand(3) Mean	Std Dev	Ref Value	Ref Unc	Acceptance Range	Units
Radiological								
Americium-241	29	22	0.0353	0.0041	0.0364	0.0010	0.0255 - 0.0473	(Bq/sample)
Cesium-134	52	50	0.742	0.069	0.802	0.018	0.561 - 1.043	(Bq/sample)
Cesium-137	52	50	0.516	0.045	0.512	0.010	0.358 - 0.666	(Bq/sample)
Cobalt-57	51	49	1.07	0.09	1.13	0.03	0.79 - 1.47	(Bq/sample)
Cobalt-60	39	38					False Positive Test	(Bq/sample)
Manganese-54	52	49	1.06	0.09	1.07	0.02	0.75 - 1.39	(Bq/sample)
Plutonium-238	23	22	0.0554	0.0057	0.0538	0.0011	0.0377 - 0.0699	(Bq/sample)
Plutonium-239/240	23	22	0.0518	0.0053	0.0527	0.0012	0.0369 - 0.0685	(Bq/sample)
Strontium-90	19	17	1.10	0.09	1.15	0.03	0.81 - 1.50	(Bq/sample)
Uranium-234	24	20	0.0386	0.0031	0.0381	0.0012	0.0267 - 0.0495	(Bq/sample)
Uranium-238	25	20	0.0398	0.0036	0.0396	0.0012	0.0277 - 0.0515	(Bq/sample)
Zinc-65	52	49	1.51	0.18	1.51	0.03	1.06 - 1.96	(Bq/sample)

Note: (1) T = Total number of laboratories reporting analyte.
(2) A = Number of laboratories with 'Acceptable' performance.
(3) Mean excludes values derived as total metals and 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:

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

Flag Summary Report

MAPEP-25-RdF53

Inorganic				
Analyte	A	W	RW	N
Uranium-Total	5			1
Uranium-235	6			1
Uranium-238	6			1
Radiological				
Analyte	A	W	RW	N
Americium-241	19	3		7
Cesium-134	45	5		2
Cesium-137	50			2
Cobalt-57	47	2		2
Cobalt-60	38			7
Manganese-54	46	3		3
Plutonium-238	20	2		1
Plutonium-239/240	21	1		1
Strontium-90	17			2
Uranium-234	19	1		4
Uranium-238	19	1		5
Zinc-65	46	3		3



Laboratory Results For MAPEP-25-RdF53

(ADEM01) Alabama Department of Environmental Management
1350 Coliseum Blvd.
Montgomery, AL 36110

Inorganic						Units: (ug/sample)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Unc Flag
Uranium-235	NR	0.0230				0.0161 - 0.0299	
Uranium-238	NR	3.18				2.23 - 4.13	
Uranium-Total	NR	3.21				2.25 - 4.17	

Radiological						Units: (Bq/sample)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Unc Flag
Americium-241	NR	0.0364				0.0255 - 0.0473	
Cesium-134	0.938	0.802	A		17.0	0.561 - 1.043	0.0611 A
Cesium-137	0.722	0.512	N		41.0	0.358 - 0.666	0.0514 A
Cobalt-57	1.46	1.13	W		29.2	0.79 - 1.47	0.0549 A
Cobalt-60	NR		N	(11)		False Positive Test	
Manganese-54	1.49	1.07	N		39.3	0.75 - 1.39	0.0852 A
Plutonium-238	NR	0.0538				0.0377 - 0.0699	
Plutonium-239/240	NR	0.0527				0.0369 - 0.0685	
Strontium-90	NR	1.15				0.81 - 1.50	
Uranium-234	NR	0.0381				0.0267 - 0.0495	
Uranium-238	NR	0.0396				0.0277 - 0.0515	
Zinc-65	2.23	1.51	N		47.7	1.06 - 1.96	0.136 A

Radiological Reference Date: August 1, 2025

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:

N = NOT ACCEPTABLE.....RP < 2%

A = ACCEPTABLE.....2% ≤ RP ≤ 15%

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

N = NOT ACCEPTABLE.....RP > 30%

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

Notes:

(1) = False Positive

(11) = False Positive Test, Result Not Reported

(28) = Not Reporting Previously Reported Analyte



Laboratory Results For MAPEP-25-RdF53

(ADFC99) Abu Dhabi Quality and Conformity Council-Central Testing Lab

Radiation Lab

Abu Dhabi, Abu Dhabi 853

Inorganic						Units: (ug/sample)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Flag
Uranium-235	NR	0.0230				0.0161 - 0.0299	
Uranium-238	NR	3.18				2.23 - 4.13	
Uranium-Total	NR	3.21				2.25 - 4.17	

Radiological						Units: (Bq/sample)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Flag
Americium-241	NR	0.0364				0.0255 - 0.0473	
Cesium-134	0.69	0.802	A		-14.0	0.561 - 1.043	0.04 A
Cesium-137	0.59	0.512	A		15.2	0.358 - 0.666	0.05 A
Cobalt-57	0.77	1.13	N		-31.9	0.79 - 1.47	0.06 A
Cobalt-60	NR		N	(11)		False Positive Test	
Manganese-54	1.30	1.07	W		21.5	0.75 - 1.39	0.10 A
Plutonium-238	NR	0.0538				0.0377 - 0.0699	
Plutonium-239/240	NR	0.0527				0.0369 - 0.0685	
Strontium-90	1.14	1.15	A		-0.9	0.81 - 1.50	0.10 A
Uranium-234	NR	0.0381				0.0267 - 0.0495	
Uranium-238	NR	0.0396				0.0277 - 0.0515	
Zinc-65	1.85	1.51	W		22.5	1.06 - 1.96	0.14 A

Radiological Reference Date: August 1, 2025

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:

N = NOT ACCEPTABLE.....RP < 2%

A = ACCEPTABLE.....2% ≤ RP ≤ 15%

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

N = NOT ACCEPTABLE.....RP > 30%

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

Notes:

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(28) = Not Reporting Previously Reported Analyte



Laboratory Results For MAPEP-25-RdF53

(AFOH01) USAFSAM/OEA

2510 Fifth Street, Area B

Wright-Patterson AFB, OH 45433-7913

Inorganic						Units: (ug/sample)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Flag
Uranium-235	NR	0.0230				0.0161 - 0.0299	
Uranium-238	NR	3.18				2.23 - 4.13	
Uranium-Total	NR	3.21				2.25 - 4.17	

Radiological						Units: (Bq/sample)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Flag
Americium-241	0.0344	0.0364	A		-5.5	0.0255 - 0.0473	0.0025 A
Cesium-134	0.821	0.802	A		2.4	0.561 - 1.043	0.098 A
Cesium-137	0.503	0.512	A		-1.8	0.358 - 0.666	0.083 W
Cobalt-57	1.028	1.13	A		-9.0	0.79 - 1.47	0.089 A
Cobalt-60	0.053		A			False Positive Test	0.062
Manganese-54	1.04	1.07	A		-2.8	0.75 - 1.39	0.11 A
Plutonium-238	0.0593	0.0538	A		10.2	0.0377 - 0.0699	0.0046 A
Plutonium-239/240	0.0571	0.0527	A		8.3	0.0369 - 0.0685	0.0045 A
Strontium-90	1.06	1.15	A		-7.8	0.81 - 1.50	0.05 A
Uranium-234	0.0431	0.0381	A		13.1	0.0267 - 0.0495	0.0033 A
Uranium-238	0.0490	0.0396	W		23.7	0.0277 - 0.0515	0.0035 A
Zinc-65	1.12	1.51	W		-25.8	1.06 - 1.96	0.17 W

Radiological Reference Date: August 1, 2025

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:

N = NOT ACCEPTABLE.....RP < 2%

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

N = NOT ACCEPTABLE.....RP > 30%

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

Notes:

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(28) = Not Reporting Previously Reported Analyte



Laboratory Results For MAPEP-25-RdF53

(AMEC99) Amentum Clean Energy Ltd

612 Faraday Street

Birchwood Park, Warrington WA3 6GN

Inorganic						Units: (ug/sample)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Flag
Uranium-235	NR	0.0230				0.0161 - 0.0299	
Uranium-238	NR	3.18				2.23 - 4.13	
Uranium-Total	NR	3.21				2.25 - 4.17	

Radiological						Units: (Bq/sample)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Flag
Americium-241	0.0412	0.0364	A		13.2	0.0255 - 0.0473	0.0036 A
Cesium-134	0.812	0.802	A		1.2	0.561 - 1.043	0.044 A
Cesium-137	0.557	0.512	A		8.8	0.358 - 0.666	0.038 A
Cobalt-57	1.027	1.13	A		-9.1	0.79 - 1.47	0.056 A
Cobalt-60	0.0153		A			False Positive Test	0.0094
Manganese-54	1.138	1.07	A		6.4	0.75 - 1.39	0.064 A
Plutonium-238	0.0575	0.0538	A		6.9	0.0377 - 0.0699	0.0044 A
Plutonium-239/240	0.0526	0.0527	A		-0.2	0.0369 - 0.0685	0.0042 A
Strontium-90	0.974	1.15	A		-15.3	0.81 - 1.50	0.083 A
Uranium-234	0.0384	0.0381	A		0.8	0.0267 - 0.0495	0.0028 A
Uranium-238	0.0383	0.0396	A		-3.3	0.0277 - 0.0515	0.0027 A
Zinc-65	1.65	1.51	A		9.3	1.06 - 1.96	0.14 A

Radiological Reference Date: August 1, 2025

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:

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

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

N = NOT ACCEPTABLE.....RP > 30%

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

Notes:

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(11) = False Positive Test, Result Not Reported

(28) = Not Reporting Previously Reported Analyte



Laboratory Results For MAPEP-25-RdF53

(ANLB01) Argonne National Laboratory

9700 S. Cass Ave

Argonne, IL 60439

Inorganic						Units: (ug/sample)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Flag
Uranium-235	NR	0.0230				0.0161 - 0.0299	
Uranium-238	NR	3.18				2.23 - 4.13	
Uranium-Total	NR	3.21				2.25 - 4.17	

Radiological						Units: (Bq/sample)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Flag
Americium-241	0.0348	0.0364	A		-4.4	0.0255 - 0.0473	0.004 A
Cesium-134	0.783	0.802	A		-2.4	0.561 - 1.043	0.092 A
Cesium-137	0.528	0.512	A		3.1	0.358 - 0.666	0.034 A
Cobalt-57	1.034	1.13	A		-8.5	0.79 - 1.47	0.143 A
Cobalt-60	0.013		A			False Positive Test	0.017
Manganese-54	1.132	1.07	A		5.8	0.75 - 1.39	0.132 A
Plutonium-238	0.064	0.0538	A		19.0	0.0377 - 0.0699	0.007 A
Plutonium-239/240	0.060	0.0527	A		13.9	0.0369 - 0.0685	0.008 A
Strontium-90	1.081	1.15	A		-6.0	0.81 - 1.50	0.063 A
Uranium-234	0.038	0.0381	A		-0.3	0.0267 - 0.0495	0.004 A
Uranium-238	0.036	0.0396	A		-9.1	0.0277 - 0.0515	0.004 A
Zinc-65	1.592	1.51	A		5.4	1.06 - 1.96	0.206 A

Radiological Reference Date: August 1, 2025

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:

N = NOT ACCEPTABLE.....RP < 2%

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

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

N = NOT ACCEPTABLE.....RP > 30%

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

Notes:

(1) = False Positive

(11) = False Positive Test, Result Not Reported

(28) = Not Reporting Previously Reported Analyte



Laboratory Results For MAPEP-25-RdF53

(ARPL01) Analytical Support Operations - Radiochemical Processing Lab

PO Box 999

Richland, WA 99354

Inorganic						Units: (ug/sample)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Flag
Uranium-235	NR	0.0230				0.0161 - 0.0299	
Uranium-238	NR	3.18				2.23 - 4.13	
Uranium-Total	NR	3.21				2.25 - 4.17	

Radiological						Units: (Bq/sample)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Flag
Americium-241	0.042	0.0364	A		15.4	0.0255 - 0.0473	0.006 A
Cesium-134	0.777	0.802	A		-3.1	0.561 - 1.043	0.026 A
Cesium-137	0.494	0.512	A		-3.5	0.358 - 0.666	0.016 A
Cobalt-57	1.053	1.13	A		-6.8	0.79 - 1.47	0.024 A
Cobalt-60	0.004		A			False Positive Test	0.014
Manganese-54	1.024	1.07	A		-4.3	0.75 - 1.39	0.024 A
Plutonium-238	0.056	0.0538	A		4.1	0.0377 - 0.0699	0.024 N
Plutonium-239/240	0.058	0.0527	A		10.1	0.0369 - 0.0685	0.005 A
Strontium-90	1.10	1.15	A		-4.3	0.81 - 1.50	0.12 A
Uranium-234	0.038	0.0381	A		-0.3	0.0267 - 0.0495	0.012 N
Uranium-238	0.039	0.0396	A		-1.5	0.0277 - 0.0515	0.002 A
Zinc-65	1.487	1.51	A		-1.5	1.06 - 1.96	0.026 N

Radiological Reference Date: August 1, 2025

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:

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

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

N = NOT ACCEPTABLE.....RP > 30%

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

Notes:

(1) = False Positive

(11) = False Positive Test, Result Not Reported

(28) = Not Reporting Previously Reported Analyte



Laboratory Results For MAPEP-25-RdF53

(ARSL01) ARS
2609 North River Road
Port Allen, LA 70767

Inorganic						Units: (ug/sample)		
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Uranium-235	NR	0.0230				0.0161 - 0.0299		
Uranium-238	NR	3.18				2.23 - 4.13		
Uranium-Total	NR	3.21				2.25 - 4.17		

Radiological						Units: (Bq/sample)		
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	0.114	0.0364	N		213.2	0.0255 - 0.0473	0.011	A
Cesium-134	0.743	0.802	A		-7.4	0.561 - 1.043	0.039	A
Cesium-137	0.506	0.512	A		-1.2	0.358 - 0.666	0.028	A
Cobalt-57	1.034	1.13	A		-8.5	0.79 - 1.47	0.04	A
Cobalt-60	-0.019		A			False Positive Test	0.025	
Manganese-54	1.039	1.07	A		-2.9	0.75 - 1.39	0.051	A
Plutonium-238	NR	0.0538				0.0377 - 0.0699		
Plutonium-239/240	NR	0.0527				0.0369 - 0.0685		
Strontium-90	NR	1.15				0.81 - 1.50		
Uranium-234	NR	0.0381				0.0267 - 0.0495		
Uranium-238	NR	0.0396				0.0277 - 0.0515		
Zinc-65	1.642	1.51	A		8.7	1.06 - 1.96	0.087	A

Radiological Reference Date: August 1, 2025

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:

N = NOT ACCEPTABLE.....RP < 2%

A = ACCEPTABLE.....2% ≤ RP ≤ 15%

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

N = NOT ACCEPTABLE.....RP > 30%

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

Notes:

(1) = False Positive

(11) = False Positive Test, Result Not Reported

(28) = Not Reporting Previously Reported Analyte



Laboratory Results For MAPEP-25-RdF53
(BSCE99) Supreme Council for Environment
P. O. Box 18233
Manama, Manama 18233

Inorganic						Units: (ug/sample)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Flag
Uranium-235	NR	0.0230				0.0161 - 0.0299	
Uranium-238	NR	3.18				2.23 - 4.13	
Uranium-Total	NR	3.21				2.25 - 4.17	

Radiological						Units: (Bq/sample)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Flag
Americium-241	0.024	0.0364	N		-34.1	0.0255 - 0.0473	0.005 W
Cesium-134	0.79	0.802	A		-1.5	0.561 - 1.043	0.04 A
Cesium-137	0.482	0.512	A		-5.9	0.358 - 0.666	0.023 A
Cobalt-57	1.02	1.13	A		-9.7	0.79 - 1.47	0.05 A
Cobalt-60	NR					False Positive Test	
Manganese-54	1.006	1.07	A		-6.0	0.75 - 1.39	0.046 A
Plutonium-238	NR	0.0538				0.0377 - 0.0699	
Plutonium-239/240	NR	0.0527				0.0369 - 0.0685	
Strontium-90	NR	1.15				0.81 - 1.50	
Uranium-234	NR	0.0381				0.0267 - 0.0495	
Uranium-238	NR	0.0396				0.0277 - 0.0515	
Zinc-65	1.38	1.51	A		-8.6	1.06 - 1.96	0.08 A

Radiological Reference Date: August 1, 2025

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:

N = NOT ACCEPTABLE.....RP < 2%

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

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

N = NOT ACCEPTABLE.....RP > 30%

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

Notes:

(1) = False Positive

(11) = False Positive Test, Result Not Reported

(28) = Not Reporting Previously Reported Analyte



Laboratory Results For MAPEP-25-RdF53

(CESL01) Lawrence Livermore National Laboratory - EMRL

7000 East Avenue

Livermore, CA 94551

Inorganic						Units: (ug/sample)		
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Uranium-235	NR	0.0230				0.0161 - 0.0299		
Uranium-238	NR	3.18				2.23 - 4.13		
Uranium-Total	NR	3.21				2.25 - 4.17		

Radiological						Units: (Bq/sample)		
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	NR	0.0364				0.0255 - 0.0473		
Cesium-134	7.55E-01	0.802	A		-5.9	0.561 - 1.043	2.22E-02	A
Cesium-137	4.88E-01	0.512	A		-4.7	0.358 - 0.666	2.68E-02	A
Cobalt-57	1.10E+00	1.13	A		-2.7	0.79 - 1.47	3.56E-02	A
Cobalt-60	7.36E-03		A			False Positive Test	7.36E-03	
Manganese-54	9.77E-01	1.07	A		-8.7	0.75 - 1.39	4.18E-02	A
Plutonium-238	5.21E-02	0.0538	A		-3.2	0.0377 - 0.0699	1.32E-03	A
Plutonium-239/240	5.09E-02	0.0527	A		-3.4	0.0369 - 0.0685	1.30E-03	A
Strontium-90	NR	1.15				0.81 - 1.50		
Uranium-234	NR	0.0381				0.0267 - 0.0495		
Uranium-238	NR	0.0396				0.0277 - 0.0515		
Zinc-65	1.36E+00	1.51	A		-9.9	1.06 - 1.96	7.38E-02	A

Radiological Reference Date: August 1, 2025

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:

N = NOT ACCEPTABLE.....RP < 2%

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

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

N = NOT ACCEPTABLE.....RP > 30%

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

Notes:

(1) = False Positive

(11) = False Positive Test, Result Not Reported

(28) = Not Reporting Previously Reported Analyte



Laboratory Results For MAPEP-25-RdF53

(CMRC01) Carlsbad Environmental Monitoring and Research Center

1400 University Dr.

Carlsbad, NM 88220

Inorganic						Units: (ug/sample)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Flag
Uranium-235	NR	0.0230				0.0161 - 0.0299	
Uranium-238	NR	3.18				2.23 - 4.13	
Uranium-Total	NR	3.21				2.25 - 4.17	

Radiological						Units: (Bq/sample)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Flag
Americium-241	3.56E-02	0.0364	A		-2.2	0.0255 - 0.0473	1.58E-03 A
Cesium-134	6.27E-01	0.802	W		-21.8	0.561 - 1.043	1.94E-02 A
Cesium-137	5.11E-01	0.512	A		-0.2	0.358 - 0.666	1.770E- A
Cobalt-57	1.09E+00	1.13	A		-3.5	0.79 - 1.47	1.98E-02 N
Cobalt-60	-1.48E-02		A			False Positive Test	7.89E-03
Manganese-54	1.09E+00	1.07	A		1.9	0.75 - 1.39	2.50E-02 A
Plutonium-238	5.42E-02	0.0538	A		0.7	0.0377 - 0.0699	2.38E-03 A
Plutonium-239/240	4.95E-02	0.0527	A		-6.1	0.0369 - 0.0685	2.45E-03 A
Strontium-90	1.09E+00	1.15	A		-5.2	0.81 - 1.50	1.35E-02 N
Uranium-234	3.91E-02	0.0381	A		2.6	0.0267 - 0.0495	2.74E-03 A
Uranium-238	4.18E-02	0.0396	A		5.6	0.0277 - 0.0515	2.90E-03 A
Zinc-65	1.70E+00	1.51	A		12.6	1.06 - 1.96	4.60E-02 A

Radiological Reference Date: August 1, 2025

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:

N = NOT ACCEPTABLE.....RP < 2%

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

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

N = NOT ACCEPTABLE.....RP > 30%

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

Notes:

(1) = False Positive

(11) = False Positive Test, Result Not Reported

(28) = Not Reporting Previously Reported Analyte



Laboratory Results For MAPEP-25-RdF53
(COPS99) Health Canada Radiation Protection Bureau
775 Brookfield Road
Ottawa, Ontario K1A 1C1

Inorganic						Units: (ug/sample)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Unc Flag
Uranium-235	NR	0.0230				0.0161 - 0.0299	
Uranium-238	NR	3.18				2.23 - 4.13	
Uranium-Total	NR	3.21				2.25 - 4.17	

Radiological						Units: (Bq/sample)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Unc Flag
Americium-241	NR	0.0364				0.0255 - 0.0473	
Cesium-134	0.73	0.802	A		-9.0	0.561 - 1.043	0.03 A
Cesium-137	0.44	0.512	A		-14.1	0.358 - 0.666	0.03 A
Cobalt-57	1.01	1.13	A		-10.6	0.79 - 1.47	0.08 A
Cobalt-60	0.0152		A			False Positive Test	0.00699
Manganese-54	0.91	1.07	A		-15.0	0.75 - 1.39	0.06 A
Plutonium-238	NR	0.0538				0.0377 - 0.0699	
Plutonium-239/240	NR	0.0527				0.0369 - 0.0685	
Strontium-90	NR	1.15				0.81 - 1.50	
Uranium-234	NR	0.0381				0.0267 - 0.0495	
Uranium-238	NR	0.0396				0.0277 - 0.0515	
Zinc-65	1.4	1.51	A		-7.3	1.06 - 1.96	0.08 A

Radiological Reference Date: August 1, 2025

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:

N = NOT ACCEPTABLE.....RP < 2%

A = ACCEPTABLE.....2% ≤ RP ≤ 15%

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

N = NOT ACCEPTABLE.....RP > 30%

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

Notes:

(1) = False Positive

(11) = False Positive Test, Result Not Reported

(28) = Not Reporting Previously Reported Analyte



Laboratory Results For MAPEP-25-RdF53

(DEHS01) Department of Environmental Health & Safety

North Carolina State Univ.

Raleigh, NC 27695-8007

Inorganic						Units: (ug/sample)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Flag
Uranium-235	NR	0.0230				0.0161 - 0.0299	
Uranium-238	NR	3.18				2.23 - 4.13	
Uranium-Total	NR	3.21				2.25 - 4.17	

Radiological						Units: (Bq/sample)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Flag
Americium-241	NR	0.0364				0.0255 - 0.0473	
Cesium-134	0.73	0.802	A		-9.0	0.561 - 1.043	0.03 A
Cesium-137	0.54	0.512	A		5.5	0.358 - 0.666	0.04 A
Cobalt-57	1.00	1.13	A		-11.5	0.79 - 1.47	.06 A
Cobalt-60	0.01		A			False Positive Test	0.01
Manganese-54	1.17	1.07	A		9.3	0.75 - 1.39	0.07 A
Plutonium-238	NR	0.0538				0.0377 - 0.0699	
Plutonium-239/240	NR	0.0527				0.0369 - 0.0685	
Strontium-90	NR	1.15				0.81 - 1.50	
Uranium-234	NR	0.0381				0.0267 - 0.0495	
Uranium-238	NR	0.0396				0.0277 - 0.0515	
Zinc-65	1.81	1.51	A		19.9	1.06 - 1.96	0.11 A

Radiological Reference Date: August 1, 2025

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:

N = NOT ACCEPTABLE.....RP < 2%

A = ACCEPTABLE.....2% ≤ RP ≤ 15%

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

N = NOT ACCEPTABLE.....RP > 30%

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

Notes:

(1) = False Positive

(11) = False Positive Test, Result Not Reported

(28) = Not Reporting Previously Reported Analyte



Laboratory Results For MAPEP-25-RdF53
(ERCL01) Washington State Public Health Laboratories
1610 N.E. 150th Street
Shoreline, WA 98155-9701

Inorganic						Units: (ug/sample)		
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Uranium-235	0.0224	0.0230	A		-2.6	0.0161 - 0.0299	0.0031	A
Uranium-238	3.20	3.18	A		0.6	2.23 - 4.13	0.43	A
Uranium-Total	3.22	3.21	A		0.3	2.25 - 4.17	0.43	A

Radiological						Units: (Bq/sample)		
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	0.0329	0.0364	A		-9.6	0.0255 - 0.0473	0.0038	A
Cesium-134	0.792	0.802	A		-1.2	0.561 - 1.043	0.017	A
Cesium-137	0.507	0.512	A		-1.0	0.358 - 0.666	0.019	A
Cobalt-57	1.03	1.13	A		-8.9	0.79 - 1.47	0.03	A
Cobalt-60	0.0081		A			False Positive Test	0.0068	
Manganese-54	1.08	1.07	A		0.9	0.75 - 1.39	0.03	A
Plutonium-238	0.0514	0.0538	A		-4.5	0.0377 - 0.0699	0.0045	A
Plutonium-239/240	0.0425	0.0527	A		-19.4	0.0369 - 0.0685	0.0040	A
Strontium-90	1.12	1.15	A		-2.6	0.81 - 1.50	0.07	A
Uranium-234	0.0340	0.0381	A		-10.8	0.0267 - 0.0495	0.0024	A
Uranium-238	0.0351	0.0396	A		-11.4	0.0277 - 0.0515	0.0026	A
Zinc-65	1.54	1.51	A		2.0	1.06 - 1.96	0.05	A

Radiological Reference Date: August 1, 2025

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:

N = NOT ACCEPTABLE.....RP < 2%

A = ACCEPTABLE.....2% ≤ RP ≤ 15%

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

N = NOT ACCEPTABLE.....RP > 30%

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

Notes:

(1) = False Positive

(11) = False Positive Test, Result Not Reported

(28) = Not Reporting Previously Reported Analyte



Laboratory Results For MAPEP-25-RdF53

(ERHD99) National Monitoring Section, Radiation Protection Bureau, Health Canada

775 Brookfield Road AL6302D1

Ottawa, Ontario K1A 1C1

Inorganic						Units: (ug/sample)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Flag
Uranium-235	0.023	0.0230	A		0.0	0.0161 - 0.0299	0.007 N
Uranium-238	3.166	3.18	A		-0.4	2.23 - 4.13	0.02 N
Uranium-Total	NR	3.21				2.25 - 4.17	

Radiological						Units: (Bq/sample)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Flag
Americium-241	0.0364	0.0364	A		0.0	0.0255 - 0.0473	0.002 A
Cesium-134	0.782	0.802	A		-2.5	0.561 - 1.043	0.059 A
Cesium-137	0.513	0.512	A		0.2	0.358 - 0.666	0.063 A
Cobalt-57	1.11	1.13	A		-1.8	0.79 - 1.47	0.11 A
Cobalt-60	0.01		A			False Positive Test	0.03
Manganese-54	1.11	1.07	A		3.7	0.75 - 1.39	0.12 A
Plutonium-238	0.0521	0.0538	A		-3.2	0.0377 - 0.0699	0.002 A
Plutonium-239/240	0.0470	0.0527	A		-10.8	0.0369 - 0.0685	0.002 A
Strontium-90	1.22	1.15	A		6.1	0.81 - 1.50	0.03 A
Uranium-234	0.0367	0.0381	A		-3.7	0.0267 - 0.0495	0.002 A
Uranium-238	0.0392	0.0396	A		-1.0	0.0277 - 0.0515	0.002 A
Zinc-65	1.57	1.51	A		4.0	1.06 - 1.96	0.17 A

Radiological Reference Date: August 1, 2025

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:

N = NOT ACCEPTABLE.....RP < 2%

A = ACCEPTABLE.....2% ≤ RP ≤ 15%

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

N = NOT ACCEPTABLE.....RP > 30%

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

Notes:

(1) = False Positive

(11) = False Positive Test, Result Not Reported

(28) = Not Reporting Previously Reported Analyte



Laboratory Results For MAPEP-25-RdF53

(FANR79) Federal Authority for Nuclear Regulation, Environmental Laboratory

Zayed University, gate number 5

Abu Dhabi, Abu Dhabi 00971

Inorganic						Units: (ug/sample)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Flag
Uranium-235	NR	0.0230				0.0161 - 0.0299	
Uranium-238	NR	3.18				2.23 - 4.13	
Uranium-Total	NR	3.21				2.25 - 4.17	

Radiological						Units: (Bq/sample)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Flag
Americium-241	NR	0.0364				0.0255 - 0.0473	
Cesium-134	0.544	0.802	N		-32.2	0.561 - 1.043	0.0785 A
Cesium-137	0.455	0.512	A		-11.1	0.358 - 0.666	0.0753 W
Cobalt-57	NR	1.13				0.79 - 1.47	
Cobalt-60	NR					False Positive Test	
Manganese-54	0.834	1.07	W		-22.1	0.75 - 1.39	0.268 N
Plutonium-238	NR	0.0538				0.0377 - 0.0699	
Plutonium-239/240	NR	0.0527				0.0369 - 0.0685	
Strontium-90	NR	1.15				0.81 - 1.50	
Uranium-234	NR	0.0381				0.0267 - 0.0495	
Uranium-238	NR	0.0396				0.0277 - 0.0515	
Zinc-65	1.63	1.51	A		7.9	1.06 - 1.96	0.332 W

Radiological Reference Date: August 1, 2025

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:

N = NOT ACCEPTABLE.....RP < 2%

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

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

N = NOT ACCEPTABLE.....RP > 30%

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

Notes:

(1) = False Positive

(11) = False Positive Test, Result Not Reported

(28) = Not Reporting Previously Reported Analyte



Laboratory Results For MAPEP-25-RdF53

(FDHE01) Florida Dept of Health Environmental Laboratory
2100 All Childrens Way
Orlando, FL 32818-5271

Inorganic						Units: (ug/sample)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Flag
Uranium-235	NR	0.0230				0.0161 - 0.0299	
Uranium-238	NR	3.18				2.23 - 4.13	
Uranium-Total	NR	3.21				2.25 - 4.17	

Radiological						Units: (Bq/sample)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Flag
Americium-241	0.028	0.0364	W		-23.1	0.0255 - 0.0473	0.031 N
Cesium-134	0.784	0.802	A		-2.2	0.561 - 1.043	0.016 A
Cesium-137	0.517	0.512	A		1.0	0.358 - 0.666	0.023 A
Cobalt-57	1.135	1.13	A		0.4	0.79 - 1.47	0.027 A
Cobalt-60	0.015		A			False Positive Test	0.046
Manganese-54	1.178	1.07	A		10.1	0.75 - 1.39	0.039 A
Plutonium-238	0.058	0.0538	A		7.8	0.0377 - 0.0699	0.04 N
Plutonium-239/240	0.049	0.0527	A		-7.0	0.0369 - 0.0685	0.04 N
Strontium-90	1.1	1.15	A		-4.3	0.81 - 1.50	0.08 A
Uranium-234	0.045	0.0381	A		18.1	0.0267 - 0.0495	0.04 N
Uranium-238	0.045	0.0396	A		13.6	0.0277 - 0.0515	0.04 N
Zinc-65	1.733	1.51	A		14.8	1.06 - 1.96	0.076 A

Radiological Reference Date: August 1, 2025

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:

N = NOT ACCEPTABLE.....RP < 2%

A = ACCEPTABLE.....2% ≤ RP ≤ 15%

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

N = NOT ACCEPTABLE.....RP > 30%

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

Notes:

(1) = False Positive

(11) = False Positive Test, Result Not Reported

(28) = Not Reporting Previously Reported Analyte



Laboratory Results For MAPEP-25-RdF53

(FDOH01) Florida Dept. of Health, Mobile Environmental Radiological Lab
2100 All Childrens Way
Orlando, FL 32818-5271

Inorganic						Units: (ug/sample)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Unc Flag
Uranium-235	NR	0.0230				0.0161 - 0.0299	
Uranium-238	NR	3.18				2.23 - 4.13	
Uranium-Total	NR	3.21				2.25 - 4.17	

Radiological						Units: (Bq/sample)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Unc Flag
Americium-241	0.033	0.0364	A		-9.3	0.0255 - 0.0473	0.02 N
Cesium-134	0.84	0.802	A		4.7	0.561 - 1.043	0.03 A
Cesium-137	0.52	0.512	A		1.6	0.358 - 0.666	0.03 A
Cobalt-57	1.06	1.13	A		-6.2	0.79 - 1.47	0.03 A
Cobalt-60	0.001		A			False Positive Test	0.02
Manganese-54	1.11	1.07	A		3.7	0.75 - 1.39	0.03 A
Plutonium-238	NR	0.0538				0.0377 - 0.0699	
Plutonium-239/240	NR	0.0527				0.0369 - 0.0685	
Strontium-90	NR	1.15				0.81 - 1.50	
Uranium-234	NR	0.0381				0.0267 - 0.0495	
Uranium-238	0.044	0.0396	A		11.1	0.0277 - 0.0515	0.054 N
Zinc-65	1.71	1.51	A		13.2	1.06 - 1.96	0.08 A

Radiological Reference Date: August 1, 2025

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:

N = NOT ACCEPTABLE.....RP < 2%

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

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

N = NOT ACCEPTABLE.....RP > 30%

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

Notes:

(1) = False Positive

(11) = False Positive Test, Result Not Reported

(28) = Not Reporting Previously Reported Analyte



Laboratory Results For MAPEP-25-RdF53

(FNAL01) Fermi National Accelerator Laboratory (FermiLab)

PO Box 500, MS325

Batavia, IL 60510

Inorganic						Units: (ug/sample)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Flag
Uranium-235	NR	0.0230				0.0161 - 0.0299	
Uranium-238	NR	3.18				2.23 - 4.13	
Uranium-Total	NR	3.21				2.25 - 4.17	

Radiological						Units: (Bq/sample)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Flag
Americium-241	NR	0.0364				0.0255 - 0.0473	
Cesium-134	0.675	0.802	A		-15.8	0.561 - 1.043	0.023 A
Cesium-137	0.456	0.512	A		-10.9	0.358 - 0.666	0.022 A
Cobalt-57	1.056	1.13	A		-6.5	0.79 - 1.47	0.034 A
Cobalt-60	-0.003		A			False Positive Test	0.007
Manganese-54	1.068	1.07	A		-0.2	0.75 - 1.39	0.046 A
Plutonium-238	NR	0.0538				0.0377 - 0.0699	
Plutonium-239/240	NR	0.0527				0.0369 - 0.0685	
Strontium-90	NR	1.15				0.81 - 1.50	
Uranium-234	NR	0.0381				0.0267 - 0.0495	
Uranium-238	NR	0.0396				0.0277 - 0.0515	
Zinc-65	1.577	1.51	A		4.4	1.06 - 1.96	0.071 A

Radiological Reference Date: August 1, 2025

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:

N = NOT ACCEPTABLE.....RP < 2%

A = ACCEPTABLE.....2% ≤ RP ≤ 15%

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

N = NOT ACCEPTABLE.....RP > 30%

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

Notes:

(1) = False Positive

(11) = False Positive Test, Result Not Reported

(28) = Not Reporting Previously Reported Analyte



Laboratory Results For MAPEP-25-RdF53

(GENE01) GEL Laboratories, LLC

2040 Savage Road

Charleston, SC 29407

Inorganic						Units: (ug/sample)		
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Uranium-235	0.0228	0.0230	A		-0.9	0.0161 - 0.0299	0.000386	N
Uranium-238	2.72	3.18	A		-14.5	2.23 - 4.13	0.0249	N
Uranium-Total	2.743	3.21	A		-14.5	2.25 - 4.17	0.0249	N

Radiological						Units: (Bq/sample)		
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	0.0377	0.0364	A		3.6	0.0255 - 0.0473	0.00212	A
Cesium-134	0.761	0.802	A		-5.1	0.561 - 1.043	0.0782	A
Cesium-137	0.569	0.512	A		11.1	0.358 - 0.666	0.0701	A
Cobalt-57	1.18	1.13	A		4.4	0.79 - 1.47	0.0696	A
Cobalt-60	0.0219		A			False Positive Test	0.0264	
Manganese-54	1.12	1.07	A		4.7	0.75 - 1.39	0.0951	A
Plutonium-238	0.0545	0.0538	A		1.3	0.0377 - 0.0699	0.00268	A
Plutonium-239/240	0.0541	0.0527	A		2.7	0.0369 - 0.0685	0.00266	A
Strontium-90	1.05	1.15	A		-8.7	0.81 - 1.50	0.143	A
Uranium-234	0.0393	0.0381	A		3.2	0.0267 - 0.0495	0.00225	A
Uranium-238	0.0409	0.0396	A		3.3	0.0277 - 0.0515	0.00231	A
Zinc-65	8.84	1.51	N		485.4	1.06 - 1.96	0.16	N

Radiological Reference Date: August 1, 2025

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:

N = NOT ACCEPTABLE.....RP < 2%

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

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

N = NOT ACCEPTABLE.....RP > 30%

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

Notes:

(1) = False Positive

(11) = False Positive Test, Result Not Reported

(28) = Not Reporting Previously Reported Analyte



Laboratory Results For MAPEP-25-RdF53

(GPCL01) Georgia Power Company Environmental Laboratory
2480 Maner Road
Atlanta, GA 30339

Inorganic						Units: (ug/sample)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Unc Flag
Uranium-235	NR	0.0230				0.0161 - 0.0299	
Uranium-238	NR	3.18				2.23 - 4.13	
Uranium-Total	NR	3.21				2.25 - 4.17	

Radiological						Units: (Bq/sample)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Unc Flag
Americium-241	NR	0.0364				0.0255 - 0.0473	
Cesium-134	0.7263	0.802	A		-9.4	0.561 - 1.043	0.0706 A
Cesium-137	0.4933	0.512	A		-3.7	0.358 - 0.666	0.0822 W
Cobalt-57	0.9405	1.13	A		-16.8	0.79 - 1.47	0.0819 A
Cobalt-60	-0.0043		A			False Positive Test	0.0614
Manganese-54	1.0573	1.07	A		-1.2	0.75 - 1.39	0.121 A
Plutonium-238	NR	0.0538				0.0377 - 0.0699	
Plutonium-239/240	NR	0.0527				0.0369 - 0.0685	
Strontium-90	NR	1.15				0.81 - 1.50	
Uranium-234	NR	0.0381				0.0267 - 0.0495	
Uranium-238	NR	0.0396				0.0277 - 0.0515	
Zinc-65	1.4144	1.51	A		-6.3	1.06 - 1.96	0.2180 W

Radiological Reference Date: August 1, 2025

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:

N = NOT ACCEPTABLE.....RP < 2%

A = ACCEPTABLE.....2% ≤ RP ≤ 15%

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

N = NOT ACCEPTABLE.....RP > 30%

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

Notes:

(1) = False Positive

(11) = False Positive Test, Result Not Reported

(28) = Not Reporting Previously Reported Analyte



Laboratory Results For MAPEP-25-RdF53
(HECR01) SC Department of Environmental Services
8231 Parklane Road
Columbia, SC 29223

Inorganic						Units: (ug/sample)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Unc Flag
Uranium-235	NR	0.0230				0.0161 - 0.0299	
Uranium-238	NR	3.18				2.23 - 4.13	
Uranium-Total	NR	3.21				2.25 - 4.17	

Radiological						Units: (Bq/sample)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Unc Flag
Americium-241	NR	0.0364				0.0255 - 0.0473	
Cesium-134	0.6870	0.802	A		-14.3	0.561 - 1.043	0.2368 N
Cesium-137	0.5788	0.512	A		13.0	0.358 - 0.666	0.2086 N
Cobalt-57	0.9078	1.13	A		-19.7	0.79 - 1.47	0.1761 W
Cobalt-60	0.08695		A			False Positive Test	0.1642
Manganese-54	0.8383	1.07	W		-21.7	0.75 - 1.39	0.2605 N
Plutonium-238	NR	0.0538				0.0377 - 0.0699	
Plutonium-239/240	NR	0.0527				0.0369 - 0.0685	
Strontium-90	NR	1.15				0.81 - 1.50	
Uranium-234	NR	0.0381				0.0267 - 0.0495	
Uranium-238	NR	0.0396				0.0277 - 0.0515	
Zinc-65	1.085	1.51	W		-28.1	1.06 - 1.96	0.5968 N

Radiological Reference Date: August 1, 2025

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:

N = NOT ACCEPTABLE.....RP < 2%

A = ACCEPTABLE.....2% ≤ RP ≤ 15%

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

N = NOT ACCEPTABLE.....RP > 30%

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

Notes:

(1) = False Positive

(11) = False Positive Test, Result Not Reported

(28) = Not Reporting Previously Reported Analyte



Laboratory Results For MAPEP-25-RdF53

(HPAC99) UKHSA, RCE Glasgow

155 Hardgate Road

Glasgow, Scotland G51 4LS

Inorganic						Units: (ug/sample)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Flag
Uranium-235	NR	0.0230				0.0161 - 0.0299	
Uranium-238	NR	3.18				2.23 - 4.13	
Uranium-Total	NR	3.21				2.25 - 4.17	

Radiological						Units: (Bq/sample)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Flag
Americium-241	0.042	0.0364	A		15.4	0.0255 - 0.0473	0.0026 A
Cesium-134	0.689	0.802	A		-14.1	0.561 - 1.043	0.049 A
Cesium-137	0.477	0.512	A		-6.8	0.358 - 0.666	0.037 A
Cobalt-57	1.036	1.13	A		-8.3	0.79 - 1.47	0.0755 A
Cobalt-60	0.020		A			False Positive Test	0.040
Manganese-54	0.961	1.07	A		-10.2	0.75 - 1.39	0.0705 A
Plutonium-238	0.0556	0.0538	A		3.3	0.0377 - 0.0699	0.0046 A
Plutonium-239/240	0.0537	0.0527	A		1.9	0.0369 - 0.0685	0.0045 A
Strontium-90	NR	1.15				0.81 - 1.50	
Uranium-234	0.04013	0.0381	A		5.3	0.0267 - 0.0495	0.002282 A
Uranium-238	0.04128	0.0396	A		4.2	0.0277 - 0.0515	0.002345 A
Zinc-65	1.352	1.51	A		-10.5	1.06 - 1.96	0.101 A

Radiological Reference Date: August 1, 2025

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:

N = NOT ACCEPTABLE.....RP < 2%

A = ACCEPTABLE.....2% ≤ RP ≤ 15%

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

N = NOT ACCEPTABLE.....RP > 30%

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

Notes:

(1) = False Positive

(11) = False Positive Test, Result Not Reported

(28) = Not Reporting Previously Reported Analyte



Laboratory Results For MAPEP-25-RdF53
(HPAL01) Los Alamos National Laboratory
Scott Engeman, z277361 MS G761
Los Alamos, NM 87545-1663

Inorganic						Units: (ug/sample)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Unc Flag
Uranium-235	NR	0.0230				0.0161 - 0.0299	
Uranium-238	NR	3.18				2.23 - 4.13	
Uranium-Total	NR	3.21				2.25 - 4.17	

Radiological						Units: (Bq/sample)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Unc Flag
Americium-241	0.09	0.0364	N		147.3	0.0255 - 0.0473	0.03 N
Cesium-134	.76	0.802	A		-5.2	0.561 - 1.043	0.05 A
Cesium-137	0.59	0.512	A		15.2	0.358 - 0.666	0.21 N
Cobalt-57	1.11	1.13	A		-1.8	0.79 - 1.47	0.07 A
Cobalt-60	NR		N	(11)		False Positive Test	
Manganese-54	1.19	1.07	A		11.2	0.75 - 1.39	0.10 A
Plutonium-238	NR	0.0538				0.0377 - 0.0699	
Plutonium-239/240	NR	0.0527				0.0369 - 0.0685	
Strontium-90	NR	1.15				0.81 - 1.50	
Uranium-234	NR	0.0381				0.0267 - 0.0495	
Uranium-238	NR	0.0396				0.0277 - 0.0515	
Zinc-65	1.74	1.51	A		15.2	1.06 - 1.96	0.17 A

Radiological Reference Date: August 1, 2025

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:

N = NOT ACCEPTABLE.....RP < 2%

A = ACCEPTABLE.....2% ≤ RP ≤ 15%

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

N = NOT ACCEPTABLE.....RP > 30%

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

Notes:

(1) = False Positive

(11) = False Positive Test, Result Not Reported

(28) = Not Reporting Previously Reported Analyte



Laboratory Results For MAPEP-25-RdF53

(IAEA59) IAEA-Equipment Radiation Monitoring Laboratory

Wagramer Strasse 5

Vienna, Vienna 1400

Inorganic						Units: (ug/sample)		
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Uranium-235	NR	0.0230				0.0161 - 0.0299		
Uranium-238	NR	3.18				2.23 - 4.13		
Uranium-Total	NR	3.21				2.25 - 4.17		

Radiological						Units: (Bq/sample)		
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	NR	0.0364				0.0255 - 0.0473		
Cesium-134	7.43E-1	0.802	A		-7.4	0.561 - 1.043	3.71E-2	A
Cesium-137	5.16E-1	0.512	A		0.8	0.358 - 0.666	3.96E-2	A
Cobalt-57	1.13	1.13	A		0.0	0.79 - 1.47	8.89E-2	A
Cobalt-60	NR					False Positive Test		
Manganese-54	1.09	1.07	A		1.9	0.75 - 1.39	6.54E-2	A
Plutonium-238	NR	0.0538				0.0377 - 0.0699		
Plutonium-239/240	NR	0.0527				0.0369 - 0.0685		
Strontium-90	NR	1.15				0.81 - 1.50		
Uranium-234	NR	0.0381				0.0267 - 0.0495		
Uranium-238	NR	0.0396				0.0277 - 0.0515		
Zinc-65	1.54	1.51	A		2.0	1.06 - 1.96	9.30E-2	A

Radiological Reference Date: August 1, 2025

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:

N = NOT ACCEPTABLE.....RP < 2%

A = ACCEPTABLE.....2% ≤ RP ≤ 15%

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

N = NOT ACCEPTABLE.....RP > 30%

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

Notes:

(1) = False Positive

(11) = False Positive Test, Result Not Reported

(28) = Not Reporting Previously Reported Analyte



Laboratory Results For MAPEP-25-RdF53
(IAEA99) International Atomic Energy Agency
Agency's Laboratories Seibersdorf
Seibersdorf, Austria A-2444

Inorganic						Units: (ug/sample)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Unc Flag
Uranium-235	NR	0.0230				0.0161 - 0.0299	
Uranium-238	NR	3.18				2.23 - 4.13	
Uranium-Total	NR	3.21				2.25 - 4.17	

Radiological						Units: (Bq/sample)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Unc Flag
Americium-241	NR	0.0364				0.0255 - 0.0473	
Cesium-134	0.774	0.802	A		-3.5	0.561 - 1.043	0.045 A
Cesium-137	0.472	0.512	A		-7.8	0.358 - 0.666	0.058 A
Cobalt-57	1.03	1.13	A		-8.9	0.79 - 1.47	0.05 A
Cobalt-60	NR					False Positive Test	
Manganese-54	1.11	1.07	A		3.7	0.75 - 1.39	0.08 A
Plutonium-238	NR	0.0538				0.0377 - 0.0699	
Plutonium-239/240	NR	0.0527				0.0369 - 0.0685	
Strontium-90	NR	1.15				0.81 - 1.50	
Uranium-234	NR	0.0381				0.0267 - 0.0495	
Uranium-238	NR	0.0396				0.0277 - 0.0515	
Zinc-65	1.26	1.51	A		-16.6	1.06 - 1.96	0.11 A

Radiological Reference Date: August 1, 2025

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:

N = NOT ACCEPTABLE.....RP < 2%

A = ACCEPTABLE.....2% ≤ RP ≤ 15%

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

N = NOT ACCEPTABLE.....RP > 30%

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

Notes:

(1) = False Positive

(11) = False Positive Test, Result Not Reported

(28) = Not Reporting Previously Reported Analyte



Laboratory Results For MAPEP-25-RdF53

(IEMA01) Illinois Emergency Management Agency Radiochemistry Laboratory

1301 Knotts St.

Springfield, IL 62703

Inorganic						Units: (ug/sample)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Flag
Uranium-235	NR	0.0230				0.0161 - 0.0299	
Uranium-238	NR	3.18				2.23 - 4.13	
Uranium-Total	NR	3.21				2.25 - 4.17	

Radiological						Units: (Bq/sample)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Flag
Americium-241	0.0366	0.0364	A		0.5	0.0255 - 0.0473	0.0023 A
Cesium-134	0.693	0.802	A		-13.6	0.561 - 1.043	0.049 A
Cesium-137	0.543	0.512	A		6.1	0.358 - 0.666	0.060 A
Cobalt-57	1.05	1.13	A		-7.1	0.79 - 1.47	0.045 A
Cobalt-60	-0.033		A			False Positive Test	0.052
Manganese-54	0.911	1.07	A		-14.9	0.75 - 1.39	0.085 A
Plutonium-238	0.0621	0.0538	A		15.4	0.0377 - 0.0699	0.0029 A
Plutonium-239/240	0.0583	0.0527	A		10.6	0.0369 - 0.0685	0.0028 A
Strontium-90	1.103	1.15	A		-4.1	0.81 - 1.50	0.032 A
Uranium-234	0.0376	0.0381	A		-1.3	0.0267 - 0.0495	0.0020 A
Uranium-238	0.0375	0.0396	A		-5.3	0.0277 - 0.0515	0.0020 A
Zinc-65	1.61	1.51	A		6.6	1.06 - 1.96	0.161 A

Radiological Reference Date: August 1, 2025

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:

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

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

N = NOT ACCEPTABLE.....RP > 30%

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

Notes:

(1) = False Positive

(11) = False Positive Test, Result Not Reported

(28) = Not Reporting Previously Reported Analyte



Laboratory Results For MAPEP-25-RdF53
(ISUE01) ISU Environmental Monitoring Laboratory
785 5th 8th Ave Rm B107
Pocatello, Idaho 83209

Inorganic						Units: (ug/sample)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Unc Flag
Uranium-235	NR	0.0230				0.0161 - 0.0299	
Uranium-238	NR	3.18				2.23 - 4.13	
Uranium-Total	NR	3.21				2.25 - 4.17	

Radiological						Units: (Bq/sample)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Unc Flag
Americium-241	NR	0.0364				0.0255 - 0.0473	
Cesium-134	0.75	0.802	A		-6.5	0.561 - 1.043	0.02 A
Cesium-137	0.59	0.512	A		15.2	0.358 - 0.666	0.03 A
Cobalt-57	1.13	1.13	A		0.0	0.79 - 1.47	0.03 A
Cobalt-60	0.03		A			False Positive Test	0.01
Manganese-54	1.14	1.07	A		6.5	0.75 - 1.39	0.04 A
Plutonium-238	NR	0.0538				0.0377 - 0.0699	
Plutonium-239/240	NR	0.0527				0.0369 - 0.0685	
Strontium-90	NR	1.15				0.81 - 1.50	
Uranium-234	NR	0.0381				0.0267 - 0.0495	
Uranium-238	NR	0.0396				0.0277 - 0.0515	
Zinc-65	1.75	1.51	A		15.9	1.06 - 1.96	0.08 A

Radiological Reference Date: August 1, 2025

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:

N = NOT ACCEPTABLE.....RP < 2%

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

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

N = NOT ACCEPTABLE.....RP > 30%

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

Notes:

(1) = False Positive

(11) = False Positive Test, Result Not Reported

(28) = Not Reporting Previously Reported Analyte



Laboratory Results For MAPEP-25-RdF53

(JLNN01) Jefferson Laboratory
111 Hadron Drive
Newport News, VA 23606

Inorganic						Units: (ug/sample)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Flag
Uranium-235	NR	0.0230				0.0161 - 0.0299	
Uranium-238	NR	3.18				2.23 - 4.13	
Uranium-Total	NR	3.21				2.25 - 4.17	

Radiological						Units: (Bq/sample)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Flag
Americium-241	0.03525	0.0364	A		-3.2	0.0255 - 0.0473	.427 N
Cesium-134	.693	0.802	A		-13.6	0.561 - 1.043	.0301 A
Cesium-137	.4825	0.512	A		-5.8	0.358 - 0.666	.0274 A
Cobalt-57	.999	1.13	A		-11.6	0.79 - 1.47	.0272 A
Cobalt-60	NR		N	(11)		False Positive Test	
Manganese-54	1.0105	1.07	A		-5.6	0.75 - 1.39	.0426 A
Plutonium-238	NR	0.0538				0.0377 - 0.0699	
Plutonium-239/240	NR	0.0527				0.0369 - 0.0685	
Strontium-90	NR	1.15				0.81 - 1.50	
Uranium-234	NR	0.0381				0.0267 - 0.0495	
Uranium-238	NR	0.0396				0.0277 - 0.0515	
Zinc-65	1.575	1.51	A		4.3	1.06 - 1.96	0.0863 A

Radiological Reference Date: August 1, 2025

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:

N = NOT ACCEPTABLE.....RP < 2%

A = ACCEPTABLE.....2% ≤ RP ≤ 15%

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

N = NOT ACCEPTABLE.....RP > 30%

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

Notes:

(1) = False Positive

(11) = False Positive Test, Result Not Reported

(28) = Not Reporting Previously Reported Analyte



Laboratory Results For MAPEP-25-RdF53
(JNRC99) Energy and Mineral Regulatory Commission
Radiological laboratories directorate
Amman, Amman 11821

Inorganic						Units: (ug/sample)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Flag
Uranium-235	NR	0.0230				0.0161 - 0.0299	
Uranium-238	NR	3.18				2.23 - 4.13	
Uranium-Total	NR	3.21				2.25 - 4.17	

Radiological						Units: (Bq/sample)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Flag
Americium-241	NR	0.0364				0.0255 - 0.0473	
Cesium-134	1.4	0.802	N		74.6	0.561 - 1.043	0.02 N
Cesium-137	0.7	0.512	N		36.7	0.358 - 0.666	0.02 A
Cobalt-57	2.4	1.13	N		112.4	0.79 - 1.47	0.03 N
Cobalt-60	NR					False Positive Test	
Manganese-54	1.6	1.07	N		49.5	0.75 - 1.39	0.04 A
Plutonium-238	NR	0.0538				0.0377 - 0.0699	
Plutonium-239/240	NR	0.0527				0.0369 - 0.0685	
Strontium-90	NR	1.15				0.81 - 1.50	
Uranium-234	NR	0.0381				0.0267 - 0.0495	
Uranium-238	NR	0.0396				0.0277 - 0.0515	
Zinc-65	2	1.51	N		32.5	1.06 - 1.96	0.05 A

Radiological Reference Date: August 1, 2025

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:

N = NOT ACCEPTABLE.....RP < 2%

A = ACCEPTABLE.....2% ≤ RP ≤ 15%

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

N = NOT ACCEPTABLE.....RP > 30%

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

Notes:

(1) = False Positive

(11) = False Positive Test, Result Not Reported

(28) = Not Reporting Previously Reported Analyte



Laboratory Results For MAPEP-25-RdF53

(LAWR01) LAWRENCE BERKELEY NATIONAL LABORATORY
1 CYCLOTRON RD.
BERKELEY, CA 94720

Inorganic						Units: (ug/sample)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Unc Flag
Uranium-235	NR	0.0230				0.0161 - 0.0299	
Uranium-238	NR	3.18				2.23 - 4.13	
Uranium-Total	NR	3.21				2.25 - 4.17	

Radiological						Units: (Bq/sample)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Unc Flag
Americium-241	NR	0.0364				0.0255 - 0.0473	
Cesium-134	0.744	0.802	A		-7.2	0.561 - 1.043	0.0685 A
Cesium-137	0.517	0.512	A		1.0	0.358 - 0.666	0.0547 A
Cobalt-57	1.17	1.13	A		3.5	0.79 - 1.47	0.0584 A
Cobalt-60	NR		N	(11)		False Positive Test	
Manganese-54	1.12	1.07	A		4.7	0.75 - 1.39	0.0785 A
Plutonium-238	NR	0.0538				0.0377 - 0.0699	
Plutonium-239/240	NR	0.0527				0.0369 - 0.0685	
Strontium-90	NR	1.15				0.81 - 1.50	
Uranium-234	NR	0.0381				0.0267 - 0.0495	
Uranium-238	NR	0.0396				0.0277 - 0.0515	
Zinc-65	1.58	1.51	A		4.6	1.06 - 1.96	0.149 A

Radiological Reference Date: August 1, 2025

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:

N = NOT ACCEPTABLE.....RP < 2%

A = ACCEPTABLE.....2% ≤ RP ≤ 15%

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

N = NOT ACCEPTABLE.....RP > 30%

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

Notes:

(1) = False Positive

(11) = False Positive Test, Result Not Reported

(28) = Not Reporting Previously Reported Analyte



Laboratory Results For MAPEP-25-RdF53

(LOCK03) Advanced Test Reactor (ATR) Complex Radioanalytical Laboratory

INL/Battelle Energy Alliance, LLC

Idaho Falls, ID 83415-7111

Inorganic						Units: (ug/sample)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Unc Flag
Uranium-235	NR	0.0230				0.0161 - 0.0299	
Uranium-238	NR	3.18				2.23 - 4.13	
Uranium-Total	NR	3.21				2.25 - 4.17	

Radiological						Units: (Bq/sample)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Unc Flag
Americium-241	NR	0.0364				0.0255 - 0.0473	
Cesium-134	0.63	0.802	W		-21.4	0.561 - 1.043	0.02 A
Cesium-137	0.56	0.512	A		9.4	0.358 - 0.666	0.03 A
Cobalt-57	0.9	1.13	W		-20.4	0.79 - 1.47	0.02 A
Cobalt-60	0.01		A			False Positive Test	0.04
Manganese-54	0.98	1.07	A		-8.4	0.75 - 1.39	0.04 A
Plutonium-238	NR	0.0538				0.0377 - 0.0699	
Plutonium-239/240	NR	0.0527				0.0369 - 0.0685	
Strontium-90	NR	1.15				0.81 - 1.50	
Uranium-234	NR	0.0381				0.0267 - 0.0495	
Uranium-238	NR	0.0396				0.0277 - 0.0515	
Zinc-65	1.49	1.51	A		-1.3	1.06 - 1.96	0.08 A

Radiological Reference Date: August 1, 2025

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:

N = NOT ACCEPTABLE.....RP < 2%

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

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

N = NOT ACCEPTABLE.....RP > 30%

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

Notes:

(1) = False Positive

(11) = False Positive Test, Result Not Reported

(28) = Not Reporting Previously Reported Analyte



Laboratory Results For MAPEP-25-RdF53
(MART01) Southern Ohio Cleanup Company LLC
COC, Bldg. X-705, Rm 106
Piketon, OH 45661

Inorganic						Units: (ug/sample)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Unc Flag
Uranium-235	NR	0.0230				0.0161 - 0.0299	
Uranium-238	NR	3.18				2.23 - 4.13	
Uranium-Total	NR	3.21				2.25 - 4.17	

Radiological						Units: (Bq/sample)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Unc Flag
Americium-241	0.04017	0.0364	A		10.4	0.0255 - 0.0473	0.003545 A
Cesium-134	NR	0.802				0.561 - 1.043	
Cesium-137	NR	0.512				0.358 - 0.666	
Cobalt-57	NR	1.13				0.79 - 1.47	
Cobalt-60	NR					False Positive Test	
Manganese-54	NR	1.07				0.75 - 1.39	
Plutonium-238	0.06052	0.0538	A		12.5	0.0377 - 0.0699	0.004891 A
Plutonium-239/240	0.05377	0.0527	A		2.0	0.0369 - 0.0685	0.004676 A
Strontium-90	NR	1.15				0.81 - 1.50	
Uranium-234	0.04022	0.0381	A		5.6	0.0267 - 0.0495	0.003762 A
Uranium-238	0.03644	0.0396	A		-8.0	0.0277 - 0.0515	0.003514 A
Zinc-65	NR	1.51				1.06 - 1.96	

Radiological Reference Date: August 1, 2025

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:

N = NOT ACCEPTABLE.....RP < 2%

A = ACCEPTABLE.....2% ≤ RP ≤ 15%

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

N = NOT ACCEPTABLE.....RP > 30%

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

Notes:

(1) = False Positive

(11) = False Positive Test, Result Not Reported

(28) = Not Reporting Previously Reported Analyte



Laboratory Results For MAPEP-25-RdF53
(MART03) Radioactive Material Analysis Laboratory
ORNL
Oak Ridge, TN 37830

Inorganic						Units: (ug/sample)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Flag
Uranium-235	NR	0.0230				0.0161 - 0.0299	
Uranium-238	NR	3.18				2.23 - 4.13	
Uranium-Total	NR	3.21				2.25 - 4.17	

Radiological						Units: (Bq/sample)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Flag
Americium-241	0.0336	0.0364	A		-7.7	0.0255 - 0.0473	0.0032 A
Cesium-134	0.749	0.802	A		-6.6	0.561 - 1.043	0.020 A
Cesium-137	0.523	0.512	A		2.1	0.358 - 0.666	0.025 A
Cobalt-57	1.087	1.13	A		-3.8	0.79 - 1.47	0.024 A
Cobalt-60	0.063		A			False Positive Test	0.063
Manganese-54	0.999	1.07	A		-6.6	0.75 - 1.39	0.033 A
Plutonium-238	0.0601	0.0538	A		11.7	0.0377 - 0.0699	0.0039 A
Plutonium-239/240	0.0555	0.0527	A		5.3	0.0369 - 0.0685	0.0037 A
Strontium-90	1.102	1.15	A		-4.2	0.81 - 1.50	0.042 A
Uranium-234	0.0405	0.0381	A		6.3	0.0267 - 0.0495	0.0037 A
Uranium-238	0.0411	0.0396	A		3.8	0.0277 - 0.0515	0.0037 A
Zinc-65	1.463	1.51	A		-3.1	1.06 - 1.96	0.068 A

Radiological Reference Date: August 1, 2025

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:

N = NOT ACCEPTABLE.....RP < 2%

A = ACCEPTABLE.....2% ≤ RP ≤ 15%

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

N = NOT ACCEPTABLE.....RP > 30%

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

Notes:

(1) = False Positive

(11) = False Positive Test, Result Not Reported

(28) = Not Reporting Previously Reported Analyte



Laboratory Results For MAPEP-25-RdF53

(MNDH01) Minnesota Department of Health, Public Health Lab. Division
601 Robert St. N.
St. Paul, MN 55155

Inorganic						Units: (ug/sample)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Flag
Uranium-235	NR	0.0230				0.0161 - 0.0299	
Uranium-238	NR	3.18				2.23 - 4.13	
Uranium-Total	NR	3.21				2.25 - 4.17	

Radiological						Units: (Bq/sample)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Flag
Americium-241	NR	0.0364				0.0255 - 0.0473	
Cesium-134	0.58364	0.802	W		-27.2	0.561 - 1.043	0.01330 A
Cesium-137	0.50060	0.512	A		-2.2	0.358 - 0.666	0.01530 A
Cobalt-57	1.0523	1.13	A		-6.9	0.79 - 1.47	0.01184 N
Cobalt-60	NR		N	(11)		False Positive Test	
Manganese-54	0.97065	1.07	A		-9.3	0.75 - 1.39	0.01919 N
Plutonium-238	NR	0.0538				0.0377 - 0.0699	
Plutonium-239/240	NR	0.0527				0.0369 - 0.0685	
Strontium-90	NR	1.15				0.81 - 1.50	
Uranium-234	NR	0.0381				0.0267 - 0.0495	
Uranium-238	NR	0.0396				0.0277 - 0.0515	
Zinc-65	1.5044	1.51	A		-0.4	1.06 - 1.96	0.03775 A

Radiological Reference Date: August 1, 2025

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:

N = NOT ACCEPTABLE.....RP < 2%

A = ACCEPTABLE.....2% ≤ RP ≤ 15%

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

N = NOT ACCEPTABLE.....RP > 30%

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

Notes:

(1) = False Positive

(11) = False Positive Test, Result Not Reported

(28) = Not Reporting Previously Reported Analyte



Laboratory Results For MAPEP-25-RdF53

(NARL01) National Analytical Radiation Environmental Laboratory

540 S. Morris Ave.

Montgomery, AL 36115-2601

Inorganic						Units: (ug/sample)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Flag
Uranium-235	NR	0.0230				0.0161 - 0.0299	
Uranium-238	NR	3.18				2.23 - 4.13	
Uranium-Total	NR	3.21				2.25 - 4.17	

Radiological						Units: (Bq/sample)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Flag
Americium-241	NR	0.0364	N	(28)		0.0255 - 0.0473	
Cesium-134	.767	0.802	A		-4.4	0.561 - 1.043	.0445 A
Cesium-137	.563	0.512	A		10.0	0.358 - 0.666	.0370 A
Cobalt-57	1.10	1.13	A		-2.7	0.79 - 1.47	.0631 A
Cobalt-60	.00818		A			False Positive Test	.0125
Manganese-54	1.18	1.07	A		10.3	0.75 - 1.39	.0694 A
Plutonium-238	NR	0.0538				0.0377 - 0.0699	
Plutonium-239/240	NR	0.0527				0.0369 - 0.0685	
Strontium-90	NR	1.15				0.81 - 1.50	
Uranium-234	NR	0.0381				0.0267 - 0.0495	
Uranium-238	NR	0.0396				0.0277 - 0.0515	
Zinc-65	1.61	1.51	A		6.6	1.06 - 1.96	.0981 A

Radiological Reference Date: August 1, 2025

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:

N = NOT ACCEPTABLE.....RP < 2%

A = ACCEPTABLE.....2% ≤ RP ≤ 15%

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

N = NOT ACCEPTABLE.....RP > 30%

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

Notes:

(1) = False Positive

(11) = False Positive Test, Result Not Reported

(28) = Not Reporting Previously Reported Analyte



Laboratory Results For MAPEP-25-RdF53

(NESI01) BWXT-Radioisotope & Analytical Chemistry Laboratory

Lynchburg Technology Center

Lynchburg, VA 24504-5447

Inorganic						Units: (ug/sample)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Flag
Uranium-235	NR	0.0230				0.0161 - 0.0299	
Uranium-238	NR	3.18				2.23 - 4.13	
Uranium-Total	NR	3.21				2.25 - 4.17	

Radiological						Units: (Bq/sample)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Flag
Americium-241	0.030	0.0364	A		-17.6	0.0255 - 0.0473	0.004 A
Cesium-134	0.744	0.802	A		-7.2	0.561 - 1.043	0.083 A
Cesium-137	0.600	0.512	A		17.2	0.358 - 0.666	0.069 A
Cobalt-57	1.17	1.13	A		3.5	0.79 - 1.47	0.062 A
Cobalt-60	-0.053		A			False Positive Test	0.095
Manganese-54	1.10	1.07	A		2.8	0.75 - 1.39	0.096 A
Plutonium-238	0.056	0.0538	A		4.1	0.0377 - 0.0699	0.005 A
Plutonium-239/240	0.053	0.0527	A		0.6	0.0369 - 0.0685	0.004 A
Strontium-90	1.12	1.15	A		-2.6	0.81 - 1.50	0.084 A
Uranium-234	0.039	0.0381	A		2.4	0.0267 - 0.0495	0.003 A
Uranium-238	0.039	0.0396	A		-1.5	0.0277 - 0.0515	0.003 A
Zinc-65	1.45	1.51	A		-4.0	1.06 - 1.96	0.187 A

Radiological Reference Date: August 1, 2025

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:

N = NOT ACCEPTABLE.....RP < 2%

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

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

N = NOT ACCEPTABLE.....RP > 30%

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

Notes:

(1) = False Positive

(11) = False Positive Test, Result Not Reported

(28) = Not Reporting Previously Reported Analyte



Laboratory Results For MAPEP-25-RdF53
(NJDH01) New Jersey Dept. of Health, ECLS
3 Schwarzkopf Drive
Ewing, NJ 08628

Inorganic						Units: (ug/sample)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Unc Flag
Uranium-235	NR	0.0230				0.0161 - 0.0299	
Uranium-238	NR	3.18				2.23 - 4.13	
Uranium-Total	NR	3.21				2.25 - 4.17	

Radiological						Units: (Bq/sample)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Unc Flag
Americium-241	NR	0.0364				0.0255 - 0.0473	
Cesium-134	0.716	0.802	A		-10.7	0.561 - 1.043	0.07 A
Cesium-137	0.441	0.512	A		-13.9	0.358 - 0.666	0.05 A
Cobalt-57	1.07	1.13	A		-5.3	0.79 - 1.47	0.12 A
Cobalt-60	0.009		A			False Positive Test	0.02
Manganese-54	1.00	1.07	A		-6.5	0.75 - 1.39	0.08 A
Plutonium-238	NR	0.0538				0.0377 - 0.0699	
Plutonium-239/240	NR	0.0527				0.0369 - 0.0685	
Strontium-90	NR	1.15				0.81 - 1.50	
Uranium-234	NR	0.0381				0.0267 - 0.0495	
Uranium-238	NR	0.0396				0.0277 - 0.0515	
Zinc-65	1.31	1.51	A		-13.2	1.06 - 1.96	0.12 A

Radiological Reference Date: August 1, 2025

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:

N = NOT ACCEPTABLE.....RP < 2%

A = ACCEPTABLE.....2% ≤ RP ≤ 15%

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

N = NOT ACCEPTABLE.....RP > 30%

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

Notes:

(1) = False Positive

(11) = False Positive Test, Result Not Reported

(28) = Not Reporting Previously Reported Analyte



Laboratory Results For MAPEP-25-RdF53
(NOCS99) National Oceanography Centre, Southampton
GAU-Radioanalytical
Southampton, Hampshire SO14 3ZH

Inorganic						Units: (ug/sample)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Flag
Uranium-235	0.022	0.0230	A		-4.3	0.0161 - 0.0299	0.001 A
Uranium-238	3.1	3.18	A		-2.5	2.23 - 4.13	0.1 A
Uranium-Total	3.1	3.21	A		-3.4	2.25 - 4.17	0.1 A

Radiological						Units: (Bq/sample)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Flag
Americium-241	0.037	0.0364	A		1.6	0.0255 - 0.0473	0.003 A
Cesium-134	0.83	0.802	A		3.5	0.561 - 1.043	0.03 A
Cesium-137	0.50	0.512	A		-2.3	0.358 - 0.666	0.02 A
Cobalt-57	1.02	1.13	A		-9.7	0.79 - 1.47	0.04 A
Cobalt-60	0.05		A			False Positive Test	0.5
Manganese-54	1.04	1.07	A		-2.8	0.75 - 1.39	0.04 A
Plutonium-238	0.052	0.0538	A		-3.3	0.0377 - 0.0699	0.003 A
Plutonium-239/240	0.048	0.0527	A		-8.9	0.0369 - 0.0685	0.003 A
Strontium-90	1.04	1.15	A		-9.6	0.81 - 1.50	0.07 A
Uranium-234	0.037	0.0381	A		-2.9	0.0267 - 0.0495	0.003 A
Uranium-238	0.038	0.0396	A		-4.0	0.0277 - 0.0515	0.003 A
Zinc-65	1.50	1.51	A		-0.7	1.06 - 1.96	0.05 A

Radiological Reference Date: August 1, 2025

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:

N = NOT ACCEPTABLE.....RP < 2%

A = ACCEPTABLE.....2% ≤ RP ≤ 15%

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

N = NOT ACCEPTABLE.....RP > 30%

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

Notes:

(1) = False Positive

(11) = False Positive Test, Result Not Reported

(28) = Not Reporting Previously Reported Analyte



Laboratory Results For MAPEP-25-RdF53
(ODHL01) Ohio Department of Health Laboratory
8995 E Main Street
Reynoldsburg, OH 43068

Inorganic						Units: (ug/sample)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Unc Flag
Uranium-235	NR	0.0230				0.0161 - 0.0299	
Uranium-238	NR	3.18				2.23 - 4.13	
Uranium-Total	NR	3.21				2.25 - 4.17	

Radiological						Units: (Bq/sample)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Unc Flag
Americium-241	NR	0.0364				0.0255 - 0.0473	
Cesium-134	0.736	0.802	A		-8.2	0.561 - 1.043	0.0275 A
Cesium-137	0.484	0.512	A		-5.5	0.358 - 0.666	0.0331 A
Cobalt-57	1.06	1.13	A		-6.2	0.79 - 1.47	0.0757 A
Cobalt-60	0.00737		A			False Positive Test	0.00385
Manganese-54	0.963	1.07	A		-10.0	0.75 - 1.39	0.0607 A
Plutonium-238	NR	0.0538				0.0377 - 0.0699	
Plutonium-239/240	NR	0.0527				0.0369 - 0.0685	
Strontium-90	NR	1.15				0.81 - 1.50	
Uranium-234	NR	0.0381				0.0267 - 0.0495	
Uranium-238	NR	0.0396				0.0277 - 0.0515	
Zinc-65	1.32	1.51	A		-12.6	1.06 - 1.96	0.0709 A

Radiological Reference Date: August 1, 2025

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:

N = NOT ACCEPTABLE.....RP < 2%

A = ACCEPTABLE.....2% ≤ RP ≤ 15%

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

N = NOT ACCEPTABLE.....RP > 30%

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

Notes:

(1) = False Positive

(11) = False Positive Test, Result Not Reported

(28) = Not Reporting Previously Reported Analyte



Laboratory Results For MAPEP-25-RdF53

(RPSC01) Radiation Protection Service

O. Ministry of Labour, Immigration, Training & Skills Development

Mississauga, Ontario L4V 1W8

Inorganic						Units: (ug/sample)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Unc Flag
Uranium-235	NR	0.0230				0.0161 - 0.0299	
Uranium-238	NR	3.18				2.23 - 4.13	
Uranium-Total	NR	3.21				2.25 - 4.17	

Radiological						Units: (Bq/sample)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Unc Flag
Americium-241	NR	0.0364				0.0255 - 0.0473	
Cesium-134	0.745	0.802	A		-7.1	0.561 - 1.043	0.0403 A
Cesium-137	0.458	0.512	A		-10.5	0.358 - 0.666	0.0436 A
Cobalt-57	1.02	1.13	A		-9.7	0.79 - 1.47	0.0445 A
Cobalt-60	0.0212		A			False Positive Test	0.0530
Manganese-54	1.01	1.07	A		-5.6	0.75 - 1.39	0.0632 A
Plutonium-238	NR	0.0538				0.0377 - 0.0699	
Plutonium-239/240	NR	0.0527				0.0369 - 0.0685	
Strontium-90	NR	1.15				0.81 - 1.50	
Uranium-234	NR	0.0381				0.0267 - 0.0495	
Uranium-238	NR	0.0396				0.0277 - 0.0515	
Zinc-65	1.41	1.51	A		-6.6	1.06 - 1.96	0.110 A

Radiological Reference Date: August 1, 2025

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:

N = NOT ACCEPTABLE.....RP < 2%

A = ACCEPTABLE.....2% ≤ RP ≤ 15%

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

N = NOT ACCEPTABLE.....RP > 30%

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

Notes:

(1) = False Positive

(11) = False Positive Test, Result Not Reported

(28) = Not Reporting Previously Reported Analyte



Laboratory Results For MAPEP-25-RdF53
(SEML01) SRS Environmental Monitoring Laboratory
Bldg 735-B
Aiken, SC 29808

Inorganic						Units: (ug/sample)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Flag
Uranium-235	NR	0.0230				0.0161 - 0.0299	
Uranium-238	NR	3.18				2.23 - 4.13	
Uranium-Total	NR	3.21				2.25 - 4.17	

Radiological						Units: (Bq/sample)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Flag
Americium-241	0.0356	0.0364	A		-2.2	0.0255 - 0.0473	0.0021 A
Cesium-134	0.822	0.802	A		2.5	0.561 - 1.043	0.074 A
Cesium-137	0.553	0.512	A		8.0	0.358 - 0.666	0.075 A
Cobalt-57	1.050	1.13	A		-7.1	0.79 - 1.47	0.096 A
Cobalt-60	0.027		A			False Positive Test	0.045
Manganese-54	1.10	1.07	A		2.8	0.75 - 1.39	0.12 A
Plutonium-238	0.0551	0.0538	A		2.4	0.0377 - 0.0699	0.0028 A
Plutonium-239/240	0.0512	0.0527	A		-2.8	0.0369 - 0.0685	0.0026 A
Strontium-90	1.164	1.15	A		1.2	0.81 - 1.50	0.064 A
Uranium-234	0.0369	0.0381	A		-3.2	0.0267 - 0.0495	0.0021 A
Uranium-238	0.0381	0.0396	A		-3.8	0.0277 - 0.0515	0.0021 A
Zinc-65	1.45	1.51	A		-4.0	1.06 - 1.96	0.16 A

Radiological Reference Date: August 1, 2025

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:

N = NOT ACCEPTABLE.....RP < 2%

A = ACCEPTABLE.....2% ≤ RP ≤ 15%

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

N = NOT ACCEPTABLE.....RP > 30%

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

Notes:

(1) = False Positive

(11) = False Positive Test, Result Not Reported

(28) = Not Reporting Previously Reported Analyte



Laboratory Results For MAPEP-25-RdF53
(SLDA01) USACE SLDA FUSRAP Project
2992 River Road
Vandergrift, PA 15690

Inorganic						Units: (ug/sample)		
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Uranium-235	NR	0.0230				0.0161 - 0.0299		
Uranium-238	NR	3.18				2.23 - 4.13		
Uranium-Total	NR	3.21				2.25 - 4.17		

Radiological					Units: (Bq/sample)			
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	0.0365	0.0364	A		0.3	0.0255 - 0.0473	0.00462	A
Cesium-134	0.7276	0.802	A		-9.3	0.561 - 1.043	0.050015	A
Cesium-137	0.5815	0.512	A		13.6	0.358 - 0.666	0.042055	A
Cobalt-57	1.1554	1.13	A		2.2	0.79 - 1.47	0.037727	A
Cobalt-60	-0.0223		A		False Positive Test		0.027053	
Manganese-54	1.1402	1.07	A		6.6	0.75 - 1.39	0.062165	A
Plutonium-238	0.0607	0.0538	A		12.8	0.0377 - 0.0699	0.00566	A
Plutonium-239/240	0.0572	0.0527	A		8.5	0.0369 - 0.0685	0.0049	A
Strontium-90	NR	1.15			0.81 - 1.50			
Uranium-234	0.0379	0.0381	A		-0.5	0.0267 - 0.0495	0.00416	A
Uranium-238	0.0415	0.0396	A		4.8	0.0277 - 0.0515	0.0044	A
Zinc-65	1.2485	1.51	A		-17.3	1.06 - 1.96	0.105955	A

Radiological Reference Date: August 1, 2025

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:

N = NOT ACCEPTABLE.....RP < 2%

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

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

N = NOT ACCEPTABLE.....RP > 30%

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

Notes:

(1) = False Positive

(11) = False Positive Test, Result Not Reported

(28) = Not Reporting Previously Reported Analyte



Laboratory Results For MAPEP-25-RdF53
(SMER01) State of Michigan EGLE Radiological Lab
815 Filley St.
Lansing, MI 48906

Inorganic						Units: (ug/sample)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Flag
Uranium-235	NR	0.0230				0.0161 - 0.0299	
Uranium-238	NR	3.18				2.23 - 4.13	
Uranium-Total	NR	3.21				2.25 - 4.17	

Radiological						Units: (Bq/sample)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Flag
Americium-241	0.048	0.0364	N		31.9	0.0255 - 0.0473	0.053 N
Cesium-134	0.67	0.802	A		-16.5	0.561 - 1.043	0.09 A
Cesium-137	0.52	0.512	A		1.6	0.358 - 0.666	0.11 W
Cobalt-57	1.03	1.13	A		-8.9	0.79 - 1.47	0.2 W
Cobalt-60	NR					False Positive Test	
Manganese-54	1.03	1.07	A		-3.7	0.75 - 1.39	0.18 W
Plutonium-238	NR	0.0538				0.0377 - 0.0699	
Plutonium-239/240	NR	0.0527				0.0369 - 0.0685	
Strontium-90	NR	1.15				0.81 - 1.50	
Uranium-234	8.5	0.0381	N		22209.7	0.0267 - 0.0495	15 N
Uranium-238	0.24	0.0396	N		506.1	0.0277 - 0.0515	9.1 N
Zinc-65	1.31	1.51	A		-13.2	1.06 - 1.96	0.29 W

Radiological Reference Date: August 1, 2025

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:

N = NOT ACCEPTABLE.....RP < 2%

A = ACCEPTABLE.....2% ≤ RP ≤ 15%

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

N = NOT ACCEPTABLE.....RP > 30%

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

Notes:

(1) = False Positive

(11) = False Positive Test, Result Not Reported

(28) = Not Reporting Previously Reported Analyte



Laboratory Results For MAPEP-25-RdF53

(SOUT01) Southwest Research Institute

6220 Culebra Rd.

San Antonio, TX 78238-5166

Inorganic						Units: (ug/sample)		
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Uranium-235	0.0227	0.0230	A		-1.3	0.0161 - 0.0299	0.00463	W
Uranium-238	3.41	3.18	A		7.2	2.23 - 4.13	0.546	W
Uranium-Total	3.43	3.21	A		6.9	2.25 - 4.17	0.549	W

Radiological						Units: (Bq/sample)		
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	0.0288	0.0364	W		-20.9	0.0255 - 0.0473	0.00578	W
Cesium-134	0.681	0.802	A		-15.1	0.561 - 1.043	0.0552	A
Cesium-137	0.581	0.512	A		13.5	0.358 - 0.666	0.0448	A
Cobalt-57	1.16	1.13	A		2.7	0.79 - 1.47	0.0360	A
Cobalt-60	0.00504		A			False Positive Test	0.0467	
Manganese-54	1.23	1.07	A		15.0	0.75 - 1.39	0.0637	A
Plutonium-238	0.0419	0.0538	W		-22.1	0.0377 - 0.0699	0.00726	W
Plutonium-239/240	0.0370	0.0527	W		-29.8	0.0369 - 0.0685	0.00637	W
Strontium-90	NR	1.15				0.81 - 1.50		
Uranium-234	0.0396	0.0381	A		3.9	0.0267 - 0.0495	0.00644	W
Uranium-238	0.0335	0.0396	A		-15.4	0.0277 - 0.0515	0.00604	W
Zinc-65	1.76	1.51	A		16.6	1.06 - 1.96	0.137	A

Radiological Reference Date: August 1, 2025

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:

N = NOT ACCEPTABLE.....RP < 2%

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

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

N = NOT ACCEPTABLE.....RP > 30%

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

Notes:

(1) = False Positive

(11) = False Positive Test, Result Not Reported

(28) = Not Reporting Previously Reported Analyte



Laboratory Results For MAPEP-25-RdF53

(SRPD01) Sandia National Laboratories, Radiation Protection Sample Diagnostics

PO Box 5800, MS1103

Albuquerque, NM 87185-1103

Inorganic						Units: (ug/sample)		
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Uranium-235	NR	0.0230				0.0161 - 0.0299		
Uranium-238	NR	3.18				2.23 - 4.13		
Uranium-Total	NR	3.21				2.25 - 4.17		

Radiological						Units: (Bq/sample)		
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	NR	0.0364				0.0255 - 0.0473		
Cesium-134	8.25E-01	0.802	A		2.9	0.561 - 1.043	6.20E-02	A
Cesium-137	4.94E-01	0.512	A		-3.5	0.358 - 0.666	4.21E-02	A
Cobalt-57	1.08E+00	1.13	A		-4.4	0.79 - 1.47	1.11E-01	A
Cobalt-60	-1.23E-02		A			False Positive Test	2.50E-02	
Manganese-54	1.11E+00	1.07	A		3.7	0.75 - 1.39	7.96E-02	A
Plutonium-238	NR	0.0538				0.0377 - 0.0699		
Plutonium-239/240	NR	0.0527				0.0369 - 0.0685		
Strontium-90	NR	1.15				0.81 - 1.50		
Uranium-234	NR	0.0381				0.0267 - 0.0495		
Uranium-238	NR	0.0396				0.0277 - 0.0515		
Zinc-65	1.45E+00	1.51	A		-4.0	1.06 - 1.96	9.54E-02	A

Radiological Reference Date: August 1, 2025

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:

N = NOT ACCEPTABLE.....RP < 2%

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

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

N = NOT ACCEPTABLE.....RP > 30%

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

Notes:

(1) = False Positive

(11) = False Positive Test, Result Not Reported

(28) = Not Reporting Previously Reported Analyte



Laboratory Results For MAPEP-25-RdF53

(STRLO1) South Texas Project Radiological Laboratory

12090 FM 521

Wadsworth, Texas 77483

Inorganic						Units: (ug/sample)		
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Uranium-235	NR	0.0230				0.0161 - 0.0299		
Uranium-238	NR	3.18				2.23 - 4.13		
Uranium-Total	NR	3.21				2.25 - 4.17		

Radiological						Units: (Bq/sample)		
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	NR	0.0364				0.0255 - 0.0473		
Cesium-134	.861	0.802	A		7.4	0.561 - 1.043	.0071	N
Cesium-137	0.58	0.512	A		13.3	0.358 - 0.666	.072	A
Cobalt-57	1.2	1.13	A		6.2	0.79 - 1.47	0.17	A
Cobalt-60	NR					False Positive Test		
Manganese-54	1.21	1.07	A		13.1	0.75 - 1.39	.079	A
Plutonium-238	NR	0.0538				0.0377 - 0.0699		
Plutonium-239/240	NR	0.0527				0.0369 - 0.0685		
Strontium-90	NR	1.15				0.81 - 1.50		
Uranium-234	NR	0.0381				0.0267 - 0.0495		
Uranium-238	NR	0.0396				0.0277 - 0.0515		
Zinc-65	1.77	1.51	A		17.2	1.06 - 1.96	0.011	N

Radiological Reference Date: August 1, 2025

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:

N = NOT ACCEPTABLE.....RP < 2%

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

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

N = NOT ACCEPTABLE.....RP > 30%

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

Notes:

(1) = False Positive

(11) = False Positive Test, Result Not Reported

(28) = Not Reporting Previously Reported Analyte



Laboratory Results For MAPEP-25-RdF53

(TDHL01) Texas Department of State Health Services Laboratory
1100 W 49th Street
Austin, TX 78756

Inorganic						Units: (ug/sample)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Flag
Uranium-235	NR	0.0230				0.0161 - 0.0299	
Uranium-238	NR	3.18				2.23 - 4.13	
Uranium-Total	NR	3.21				2.25 - 4.17	

Radiological						Units: (Bq/sample)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Flag
Americium-241	0.0286	0.0364	W		-21.4	0.0255 - 0.0473	0.0050 W
Cesium-134	0.613	0.802	W		-23.6	0.561 - 1.043	0.022 A
Cesium-137	0.466	0.512	A		-9.0	0.358 - 0.666	0.029 A
Cobalt-57	0.960	1.13	A		-15.0	0.79 - 1.47	0.029 A
Cobalt-60	0.031		A			False Positive Test	0.109
Manganese-54	0.997	1.07	A		-6.8	0.75 - 1.39	0.041 A
Plutonium-238	0.0410	0.0538	W		-23.8	0.0377 - 0.0699	0.0059 A
Plutonium-239/240	0.0509	0.0527	A		-3.4	0.0369 - 0.0685	0.0068 A
Strontium-90	0.051	1.15	N		-95.6	0.81 - 1.50	0.010 W
Uranium-234	0.0303	0.0381	W		-20.5	0.0267 - 0.0495	0.0045 A
Uranium-238	0.0265	0.0396	N		-33.1	0.0277 - 0.0515	0.0042 W
Zinc-65	1.436	1.51	A		-4.9	1.06 - 1.96	0.075 A

Radiological Reference Date: August 1, 2025

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:

N = NOT ACCEPTABLE.....RP < 2%

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

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

N = NOT ACCEPTABLE.....RP > 30%

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

Notes:

(1) = False Positive

(11) = False Positive Test, Result Not Reported

(28) = Not Reporting Previously Reported Analyte



Laboratory Results For MAPEP-25-RdF53
(TMAO01) EBERLINE Analytical Corporation
601 A SCARBORO RD
OAK RIDGE, TN 37830-

Inorganic						Units: (ug/sample)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Flag
Uranium-235	NR	0.0230				0.0161 - 0.0299	
Uranium-238	NR	3.18				2.23 - 4.13	
Uranium-Total	NR	3.21				2.25 - 4.17	

Radiological						Units: (Bq/sample)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Flag
Americium-241	0.089	0.0364	N		144.5	0.0255 - 0.0473	0.077 N
Cesium-134	0.657	0.802	A		-18.1	0.561 - 1.043	0.158 W
Cesium-137	0.538	0.512	A		5.1	0.358 - 0.666	0.210 N
Cobalt-57	1.042	1.13	A		-7.8	0.79 - 1.47	0.175 W
Cobalt-60	0.016		A			False Positive Test	0.129
Manganese-54	1.030	1.07	A		-3.7	0.75 - 1.39	0.402 N
Plutonium-238	NR	0.0538				0.0377 - 0.0699	
Plutonium-239/240	NR	0.0527				0.0369 - 0.0685	
Strontium-90	0.688	1.15	N		-40.2	0.81 - 1.50	0.120 W
Uranium-234	NR	0.0381	N	(28)		0.0267 - 0.0495	
Uranium-238	NR	0.0396	N	(28)		0.0277 - 0.0515	
Zinc-65	1.328	1.51	A		-12.1	1.06 - 1.96	0.567 N

Radiological Reference Date: August 1, 2025

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:

N = NOT ACCEPTABLE.....RP < 2%

A = ACCEPTABLE.....2% ≤ RP ≤ 15%

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

N = NOT ACCEPTABLE.....RP > 30%

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

Notes:

(1) = False Positive

(11) = False Positive Test, Result Not Reported

(28) = Not Reporting Previously Reported Analyte



Laboratory Results For MAPEP-25-RdF53
(WIPH01) WI, DPH, Radiation Protection Section
201 E Washington Ave
Madison, WI 53703

Inorganic						Units: (ug/sample)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Unc Flag
Uranium-235	NR	0.0230				0.0161 - 0.0299	
Uranium-238	NR	3.18				2.23 - 4.13	
Uranium-Total	NR	3.21				2.25 - 4.17	

Radiological						Units: (Bq/sample)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Unc Flag
Americium-241	0.01	0.0364	N		-72.5	0.0255 - 0.0473	0.05 N
Cesium-134	0.77	0.802	A		-4.0	0.561 - 1.043	0.03 A
Cesium-137	0.49	0.512	A		-4.3	0.358 - 0.666	0.04 A
Cobalt-57	1.02	1.13	A		-9.7	0.79 - 1.47	0.08 A
Cobalt-60	0.02		A			False Positive Test	0.01
Manganese-54	1.06	1.07	A		-0.9	0.75 - 1.39	0.07 A
Plutonium-238	NR	0.0538				0.0377 - 0.0699	
Plutonium-239/240	NR	0.0527				0.0369 - 0.0685	
Strontium-90	NR	1.15				0.81 - 1.50	
Uranium-234	NR	0.0381				0.0267 - 0.0495	
Uranium-238	NR	0.0396				0.0277 - 0.0515	
Zinc-65	1.42	1.51	A		-6.0	1.06 - 1.96	0.09 A

Radiological Reference Date: August 1, 2025

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:

N = NOT ACCEPTABLE.....RP < 2%

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

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

N = NOT ACCEPTABLE.....RP > 30%

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

Notes:

(1) = False Positive

(11) = False Positive Test, Result Not Reported

(28) = Not Reporting Previously Reported Analyte



Laboratory Results For MAPEP-25-RdF53

(WMGS01) Westinghouse (Waltz Mill Gamma Spectroscopy Lab)

680 waltz mill road

Madison, Pennsylvania 15663

Inorganic						Units: (ug/sample)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Flag
Uranium-235	NR	0.0230				0.0161 - 0.0299	
Uranium-238	NR	3.18				2.23 - 4.13	
Uranium-Total	NR	3.21				2.25 - 4.17	

Radiological						Units: (Bq/sample)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Flag
Americium-241	NR	0.0364				0.0255 - 0.0473	
Cesium-134	0.611	0.802	W		-23.8	0.561 - 1.043	0.0393 A
Cesium-137	0.424	0.512	A		-17.2	0.358 - 0.666	0.0522 A
Cobalt-57	1.01	1.13	A		-10.6	0.79 - 1.47	0.0587 A
Cobalt-60	0.664		N	(1)		False Positive Test	0.0520
Manganese-54	1.47	1.07	N		37.4	0.75 - 1.39	0.109 A
Plutonium-238	NR	0.0538				0.0377 - 0.0699	
Plutonium-239/240	NR	0.0527				0.0369 - 0.0685	
Strontium-90	NR	1.15				0.81 - 1.50	
Uranium-234	NR	0.0381				0.0267 - 0.0495	
Uranium-238	NR	0.0396				0.0277 - 0.0515	
Zinc-65	1.60	1.51	A		6.0	1.06 - 1.96	0.159 A

Radiological Reference Date: August 1, 2025

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:

N = NOT ACCEPTABLE.....RP < 2%

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

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

N = NOT ACCEPTABLE.....RP > 30%

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

Notes:

(1) = False Positive

(11) = False Positive Test, Result Not Reported

(28) = Not Reporting Previously Reported Analyte



Laboratory Results For MAPEP-25-RdF53
(WSHL01) Wisconsin State Laboratory of Hygiene
2601 Agriculture Drive
Madison, WI 53718

Inorganic						Units: (ug/sample)		
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Uranium-235	NR	0.0230				0.0161 - 0.0299		
Uranium-238	NR	3.18				2.23 - 4.13		
Uranium-Total	NR	3.21				2.25 - 4.17		

Radiological					Units: (Bq/sample)			
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	0.03749	0.0364	A		3.0	0.0255 - 0.0473	0.00362	A
Cesium-134	0.793	0.802	A		-1.1	0.561 - 1.043	0.0249	A
Cesium-137	0.508	0.512	A		-0.8	0.358 - 0.666	0.0236	A
Cobalt-57	1.11	1.13	A		-1.8	0.79 - 1.47	0.0311	A
Cobalt-60	0.0132		A		False Positive Test		0.0120	
Manganese-54	1.06	1.07	A		-0.9	0.75 - 1.39	0.0541	A
Plutonium-238	0.06069	0.0538	A		12.8	0.0377 - 0.0699	0.00472	A
Plutonium-239/240	0.05047	0.0527	A		-4.2	0.0369 - 0.0685	0.00408	A
Strontium-90	0.95674	1.15	A		-16.8	0.81 - 1.50	0.024	A
Uranium-234	0.04174	0.0381	A		9.6	0.0267 - 0.0495	0.00363	A
Uranium-238	0.04098	0.0396	A		3.5	0.0277 - 0.0515	0.00359	A
Zinc-65	1.46	1.51	A		-3.3	1.06 - 1.96	.130	A

Radiological Reference Date: August 1, 2025

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:

N = NOT ACCEPTABLE.....RP < 2%

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

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

N = NOT ACCEPTABLE.....RP > 30%

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

Notes:

(1) = False Positive

(11) = False Positive Test, Result Not Reported

(28) = Not Reporting Previously Reported Analyte



Laboratory Results For MAPEP-25-RdF53

(WSTP99) Cavendish Nuclear Limited

Greson Court

Cumbria, UK CA24 3HZ

Inorganic						Units: (ug/sample)		
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Uranium-235	0.02111	0.0230	A		-8.2	0.0161 - 0.0299	0.00066	A
Uranium-238	3.057	3.18	A		-3.9	2.23 - 4.13	0.093	A
Uranium-Total	3.50	3.21	A		9.0	2.25 - 4.17	0.11	A

Radiological						Units: (Bq/sample)		
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	NR	0.0364				0.0255 - 0.0473		
Cesium-134	0.741	0.802	A		-7.6	0.561 - 1.043	0.037	A
Cesium-137	0.509	0.512	A		-0.6	0.358 - 0.666	0.025	A
Cobalt-57	1.012	1.13	A		-10.4	0.79 - 1.47	0.040	A
Cobalt-60	-0.011		A			False Positive Test	0.012	
Manganese-54	1.085	1.07	A		1.4	0.75 - 1.39	0.047	A
Plutonium-238	0.0539	0.0538	A		0.2	0.0377 - 0.0699	0.0044	A
Plutonium-239/240	0.0501	0.0527	A		-4.9	0.0369 - 0.0685	0.0042	A
Strontium-90	1.338	1.15	A		16.3	0.81 - 1.50	0.067	A
Uranium-234	0.0019	0.0381	N		-95.0	0.0267 - 0.0495	0.0012	N
Uranium-238	0.01521	0.0396	N		-61.6	0.0277 - 0.0515	0.00046	A
Zinc-65	1.775	1.51	A		17.6	1.06 - 1.96	0.084	A

Radiological Reference Date: August 1, 2025

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:

N = NOT ACCEPTABLE.....RP < 2%

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

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

N = NOT ACCEPTABLE.....RP > 30%

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

Notes:

(1) = False Positive

(11) = False Positive Test, Result Not Reported

(28) = Not Reporting Previously Reported Analyte



Laboratory Results For MAPEP-25-RdF53
(WVDP01) WVDP Environmental Laboratory
10282 Rock Springs Road
West Valley, NY 14171

Inorganic						Units: (ug/sample)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Unc Flag
Uranium-235	NR	0.0230				0.0161 - 0.0299	
Uranium-238	NR	3.18				2.23 - 4.13	
Uranium-Total	NR	3.21				2.25 - 4.17	

Radiological						Units: (Bq/sample)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Unc Flag
Americium-241	NR	0.0364				0.0255 - 0.0473	
Cesium-134	0.716	0.802	A		-10.7	0.561 - 1.043	0.0444 A
Cesium-137	0.468	0.512	A		-8.6	0.358 - 0.666	0.0292 A
Cobalt-57	0.975	1.13	A		-13.7	0.79 - 1.47	0.0319 A
Cobalt-60	-0.00447		A			False Positive Test	0.00934
Manganese-54	1.06	1.07	A		-0.9	0.75 - 1.39	0.0525 A
Plutonium-238	NR	0.0538				0.0377 - 0.0699	
Plutonium-239/240	NR	0.0527				0.0369 - 0.0685	
Strontium-90	NR	1.15				0.81 - 1.50	
Uranium-234	NR	0.0381				0.0267 - 0.0495	
Uranium-238	NR	0.0396				0.0277 - 0.0515	
Zinc-65	1.45	1.51	A		-4.0	1.06 - 1.96	0.0869 A

Radiological Reference Date: August 1, 2025

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:

N = NOT ACCEPTABLE.....RP < 2%

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

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

N = NOT ACCEPTABLE.....RP > 30%

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

Notes:

(1) = False Positive

(11) = False Positive Test, Result Not Reported

(28) = Not Reporting Previously Reported Analyte



Laboratory Results For MAPEP-25-RdF53

(YPGA01) US Army Yuma Proving Ground / Material Analysis Lab

301 C. Street

Yuma, AZ 85365

Inorganic						Units: (ug/sample)		
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Uranium-235	0.015	0.0230	N		-34.8	0.0161 - 0.0299	0.005	N
Uranium-238	2.074	3.18	N		-34.8	2.23 - 4.13	0.1	A
Uranium-Total	2.09	3.21	N		-34.9	2.25 - 4.17	0.20	A

Radiological						Units: (Bq/sample)		
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	NR	0.0364				0.0255 - 0.0473		
Cesium-134	NR	0.802				0.561 - 1.043		
Cesium-137	NR	0.512				0.358 - 0.666		
Cobalt-57	NR	1.13				0.79 - 1.47		
Cobalt-60	NR					False Positive Test		
Manganese-54	NR	1.07				0.75 - 1.39		
Plutonium-238	NR	0.0538				0.0377 - 0.0699		
Plutonium-239/240	NR	0.0527				0.0369 - 0.0685		
Strontium-90	NR	1.15				0.81 - 1.50		
Uranium-234	NR	0.0381				0.0267 - 0.0495		
Uranium-238	NR	0.0396				0.0277 - 0.0515		
Zinc-65	NR	1.51				1.06 - 1.96		

Radiological Reference Date: August 1, 2025

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:

N = NOT ACCEPTABLE.....RP < 2%

A = ACCEPTABLE.....2% ≤ RP ≤ 15%

Radiological						Units: (Bq/sample)		
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag

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

N = NOT ACCEPTABLE.....RP > 30%

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

Notes:

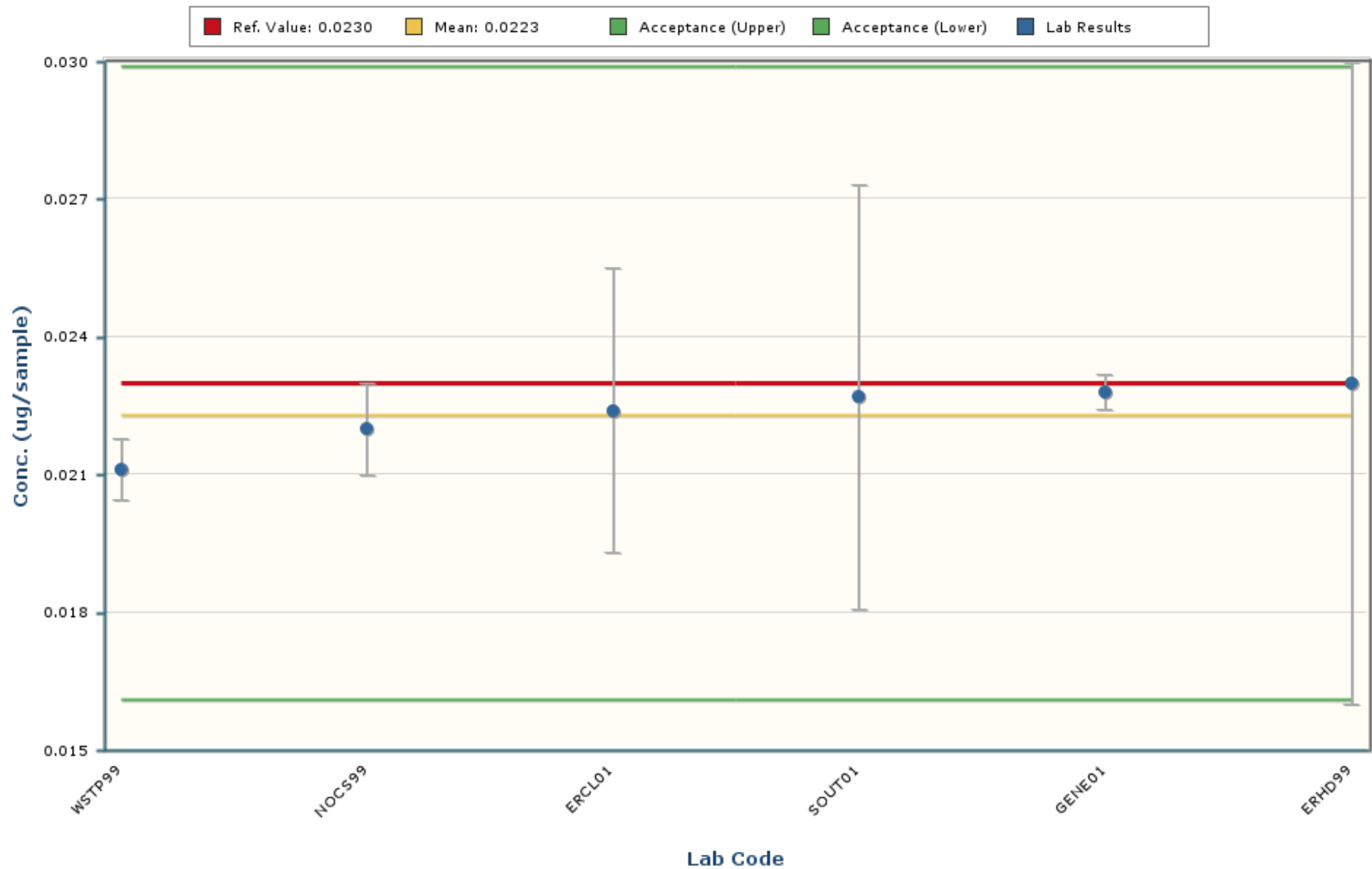
(1) = False Positive

(11) = False Positive Test, Result Not Reported

(28) = Not Reporting Previously Reported Analyte

Uranium-235

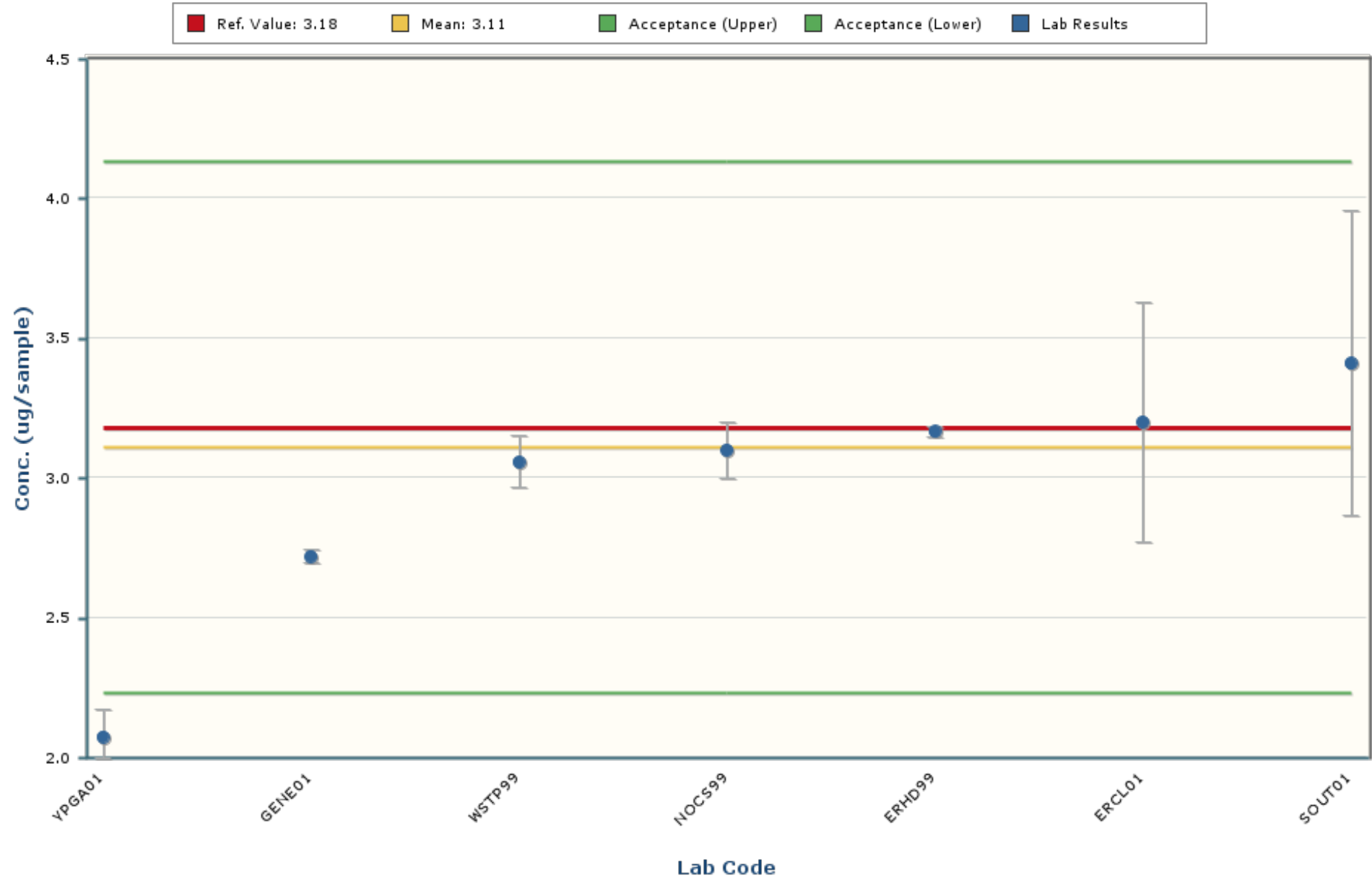
MAPEP-25-RdF53



Notes:
The chart mean excludes values outside of a bias range of $\pm 30\%$.
The chart shows only data points with values between 0.0189 and 0.0258 (± 5 Standard Deviations).
The error bars encompassing each result are plotted at $\pm$ one standard deviation.

Uranium-238

MAPEP-25-RdF53



Notes:

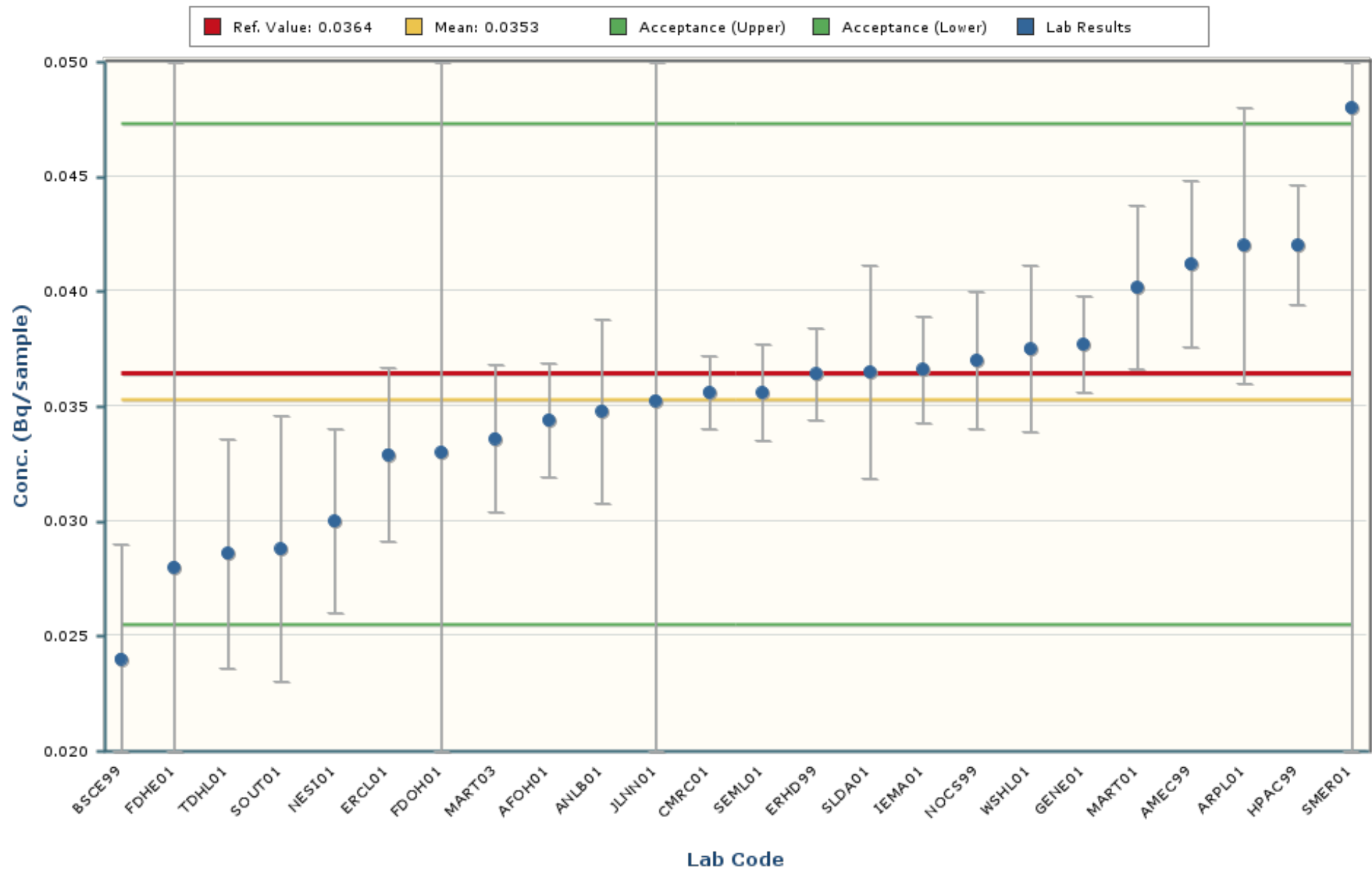
The chart mean excludes values outside of a bias range of $\pm 30\%$.

The chart shows only data points with values between 1.98 and 4.24 (± 5 Standard Deviations).

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

Americium-241

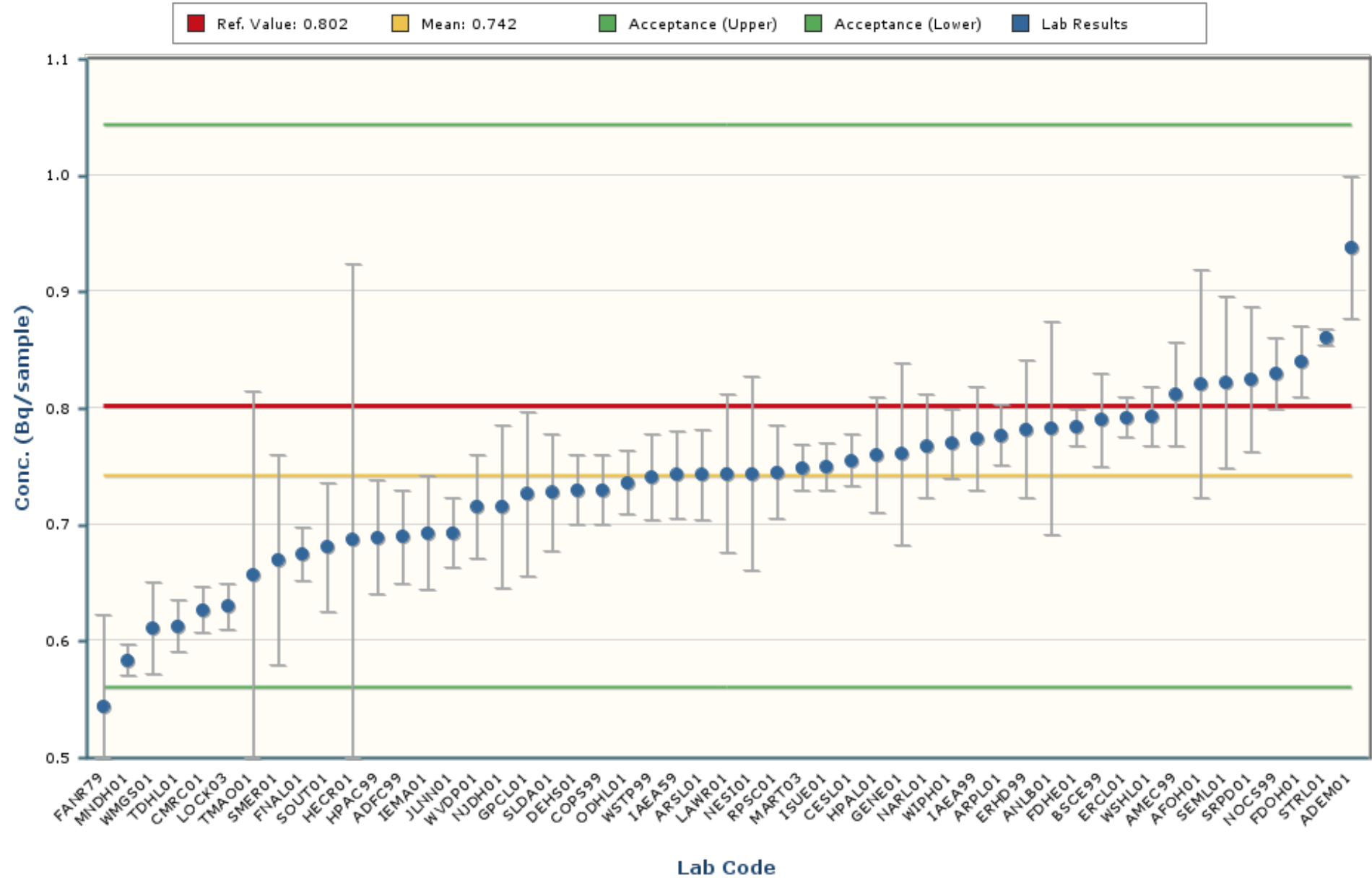
MAPEP-25-RdF53



Notes:
The chart mean excludes values outside of a bias range of $\pm 30\%$.
The chart shows only data points with values between 0.0149 and 0.0558 (± 5 Standard Deviations).
The error bars encompassing each result are plotted at $\pm$ one standard deviation.

Cesium-134

MAPEP-25-RdF53



Notes:

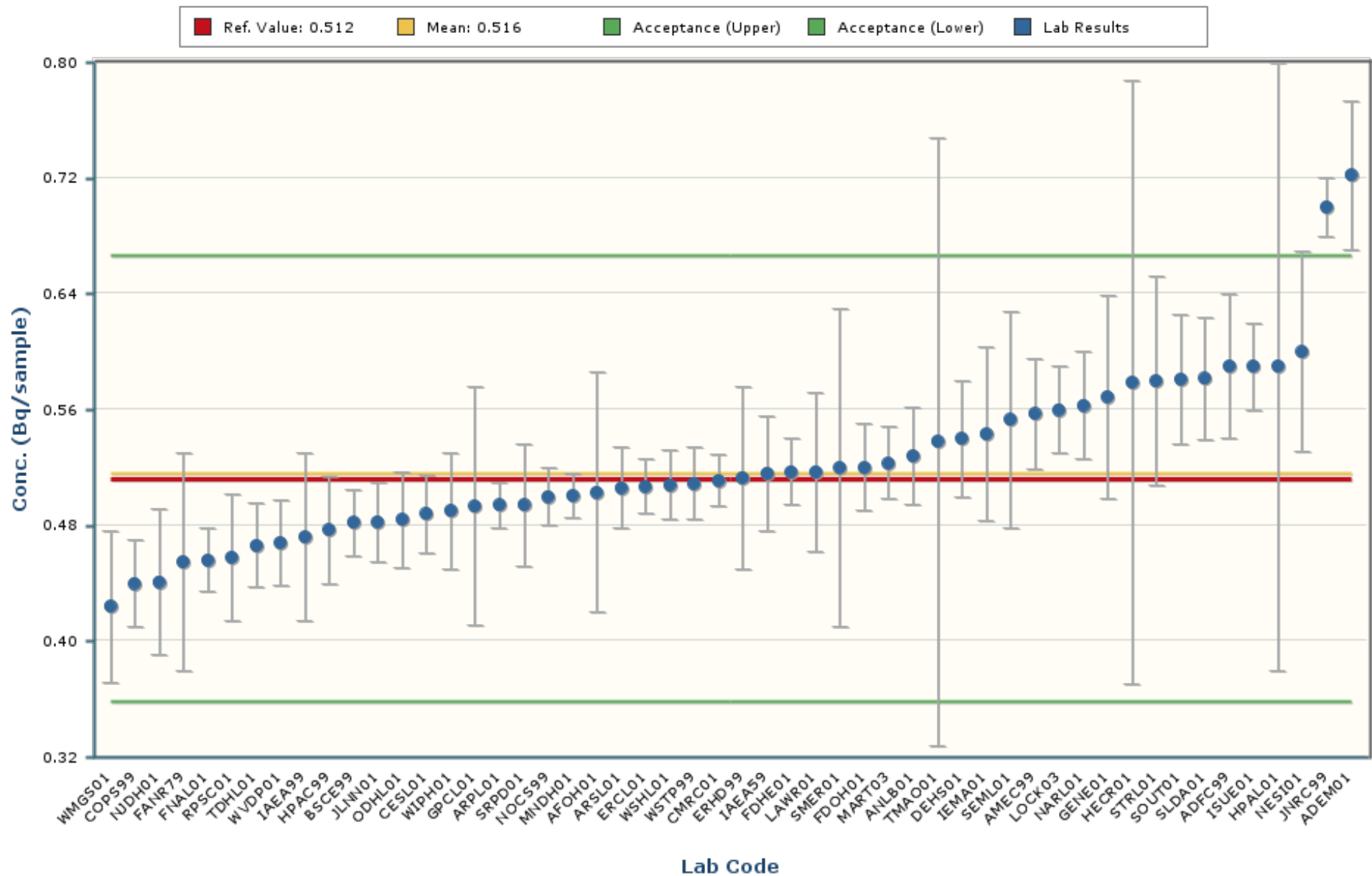
The chart mean excludes values outside of a bias range of $\pm 30\%$.

The chart shows only data points with values between 0.397 and 1.086 (± 5 Standard Deviations).

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

Cesium-137

MAPEP-25-RdF53



Notes:

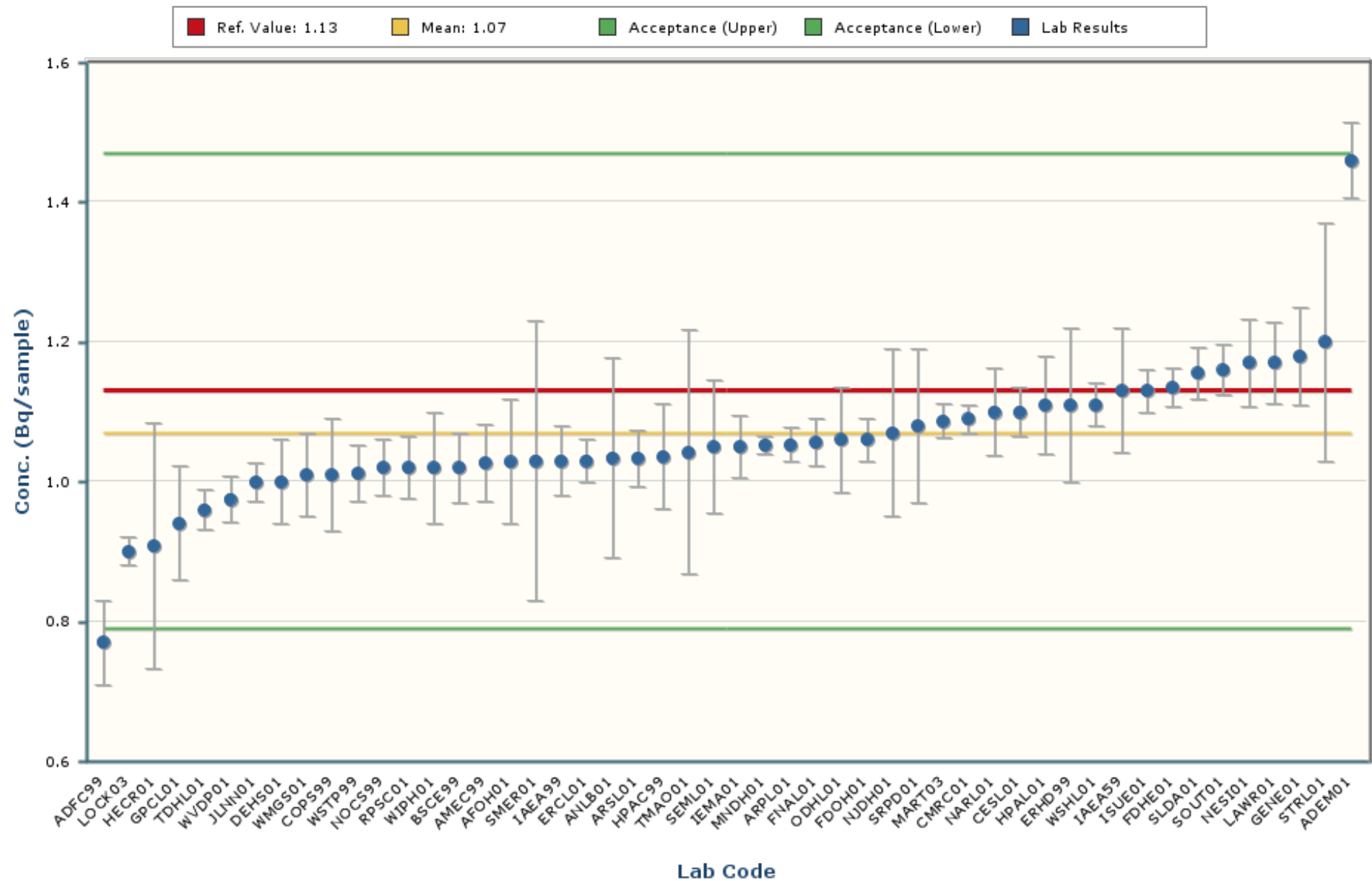
The chart mean excludes values outside of a bias range of $\pm 30\%$.

The chart shows only data points with values between 0.292 and 0.739 (± 5 Standard Deviations).

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

Cobalt-57

MAPEP-25-RdF53



Notes:

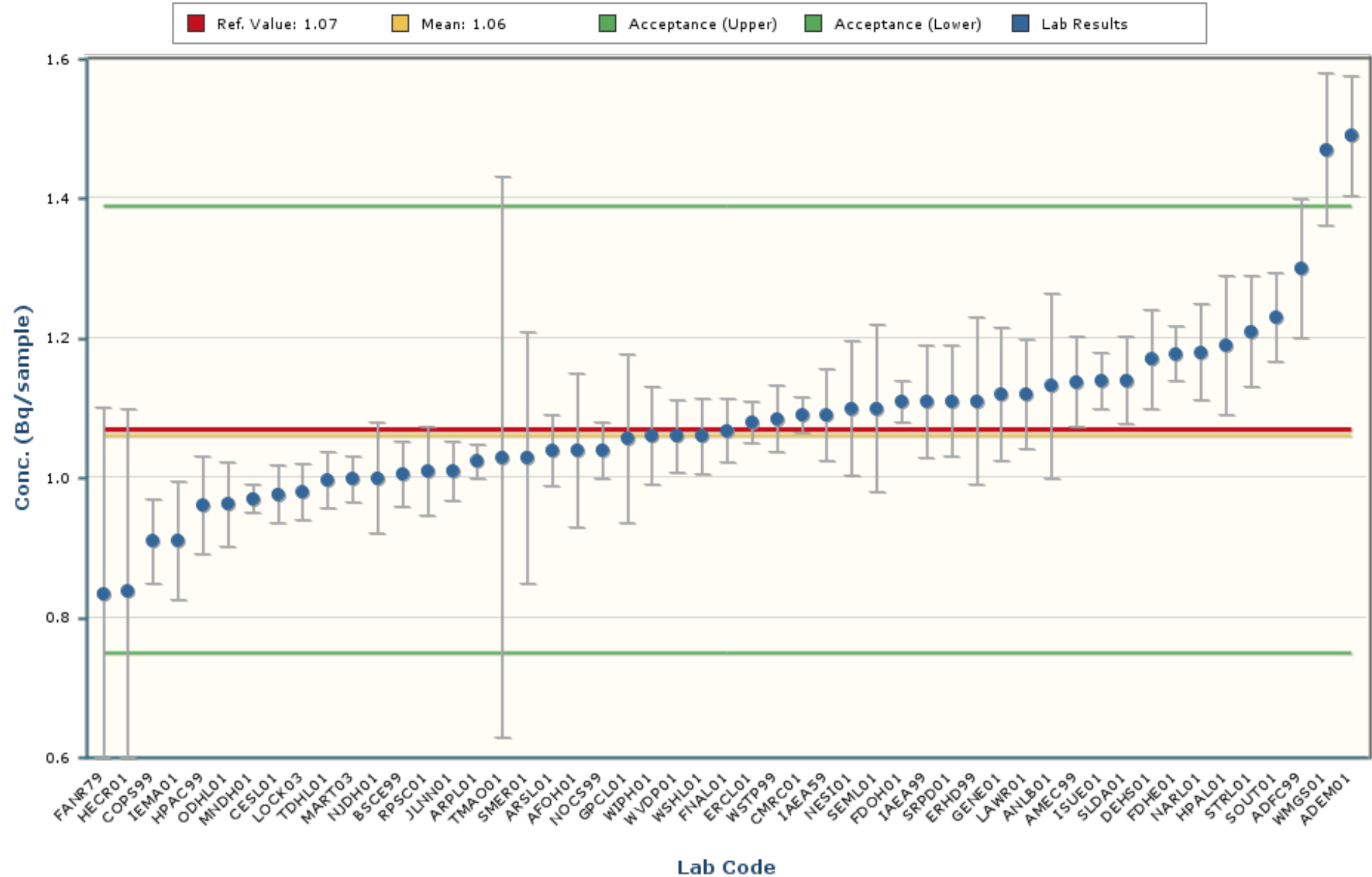
The chart mean excludes values outside of a bias range of $\pm 30\%$.

The chart shows only data points with values between 0.63 and 1.51 (± 5 Standard Deviations).

The error bars encompassing each result are plotted at ± 1 standard deviation.

Manganese-54

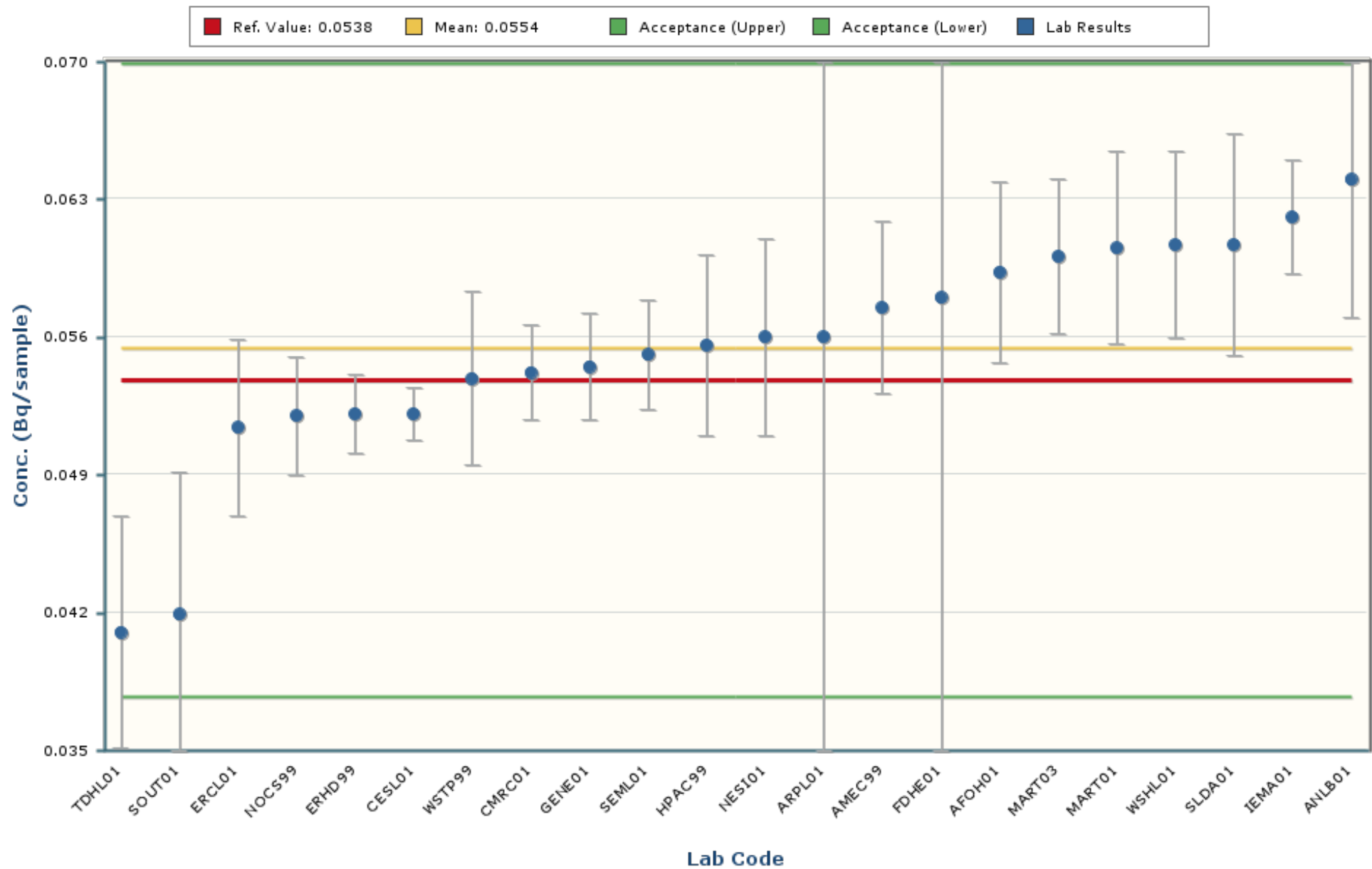
MAPEP-25-RdF53



Notes:
The chart mean excludes values outside of a bias range of $\pm 30\%$.
The chart shows only data points with values between 0.59 and 1.53 (± 5 Standard Deviations).
The error bars encompassing each result are plotted at $\pm$ one standard deviation.

Plutonium-238

MAPEP-25-RdF53



Notes:

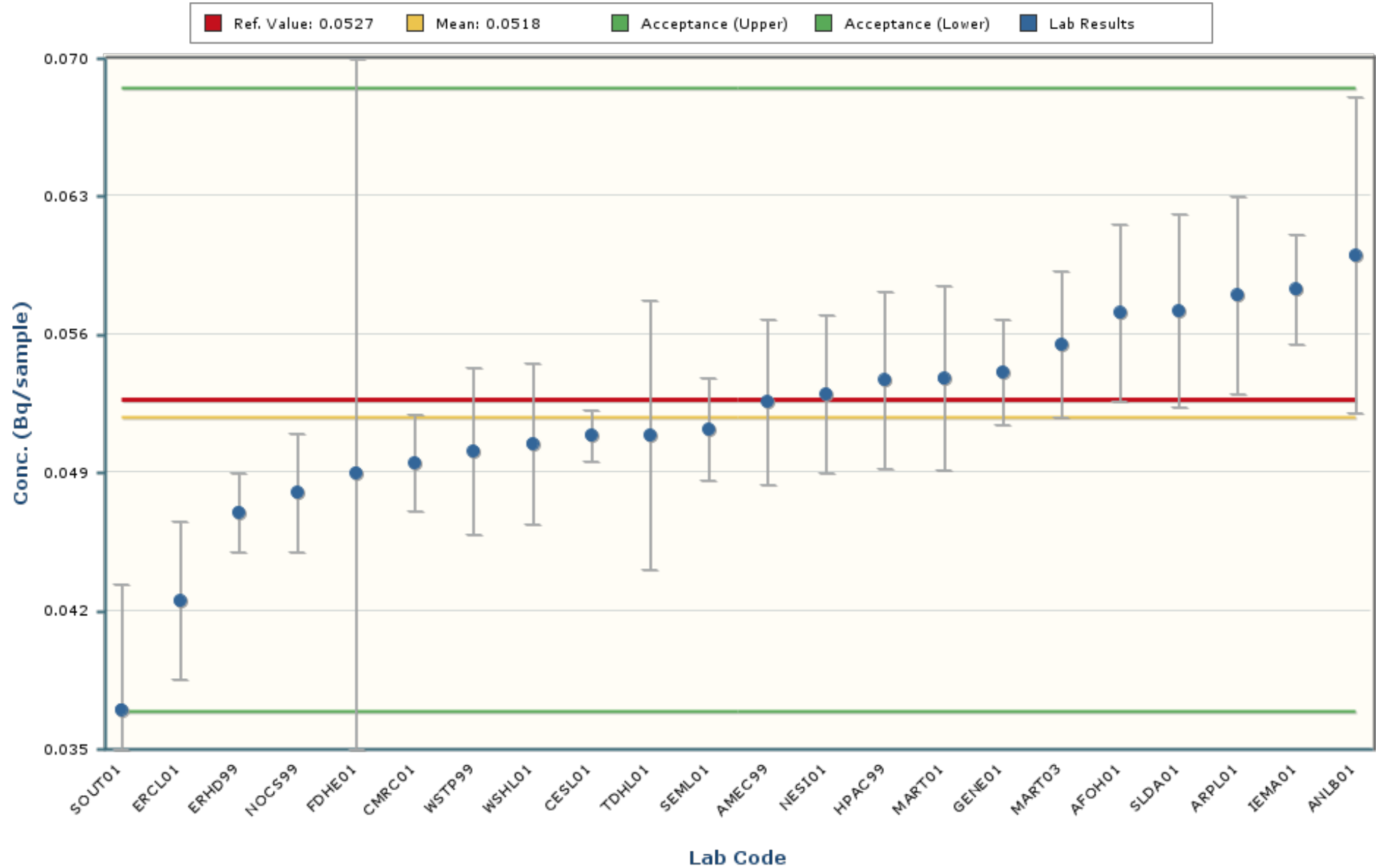
The chart mean excludes values outside of a bias range of $\pm 30\%$.

The chart shows only data points with values between 0.0267 and 0.0841 (± 5 Standard Deviations).

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

Plutonium-239/240

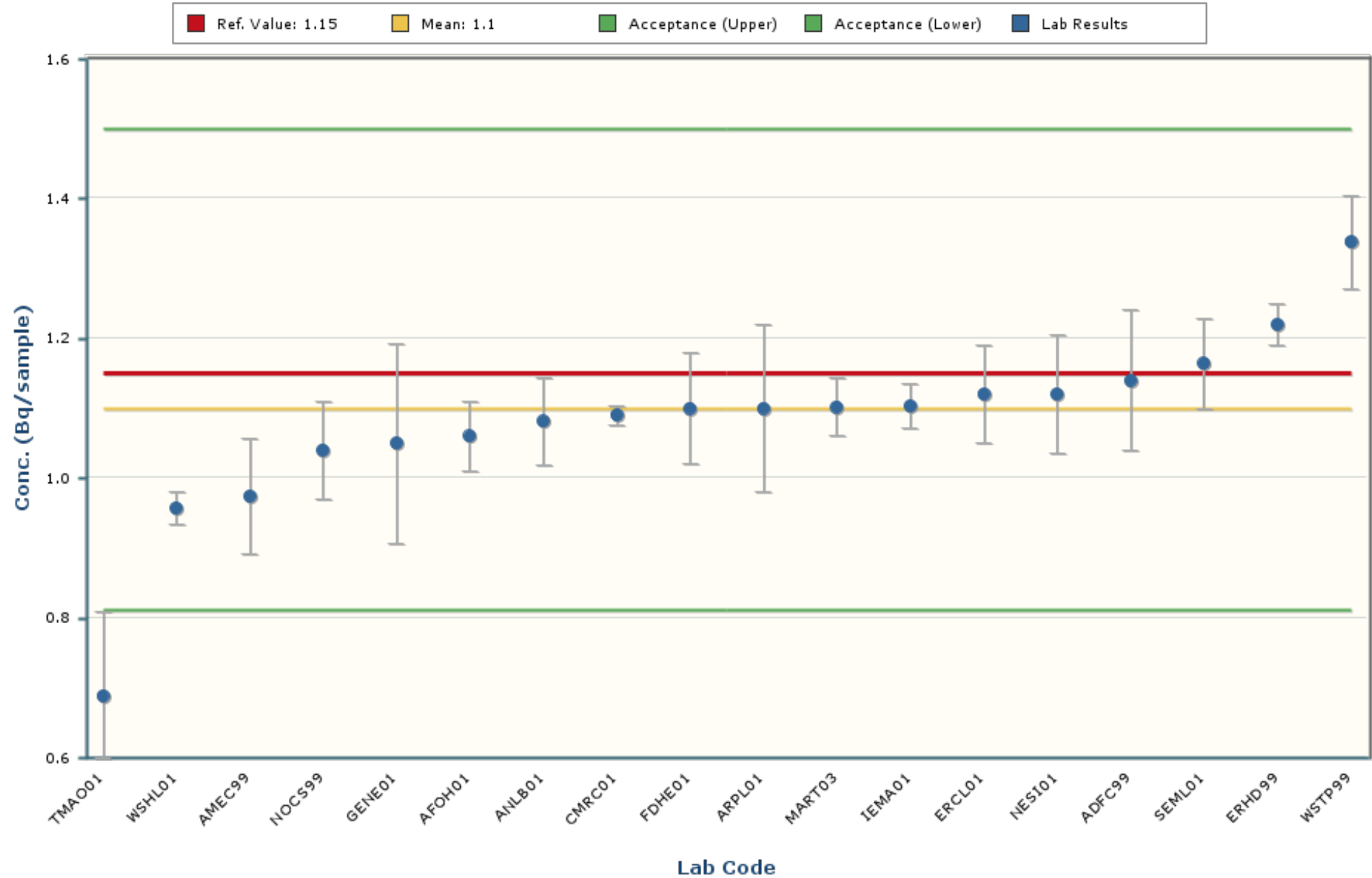
MAPEP-25-RdF53



Notes:
The chart mean excludes values outside of a bias range of $\pm 30\%$.
The chart shows only data points with values between 0.0252 and 0.0785 (± 5 Standard Deviations).
The error bars encompassing each result are plotted at $\pm$ one standard deviation.

Strontium-90

MAPEP-25-RdF53



Notes:

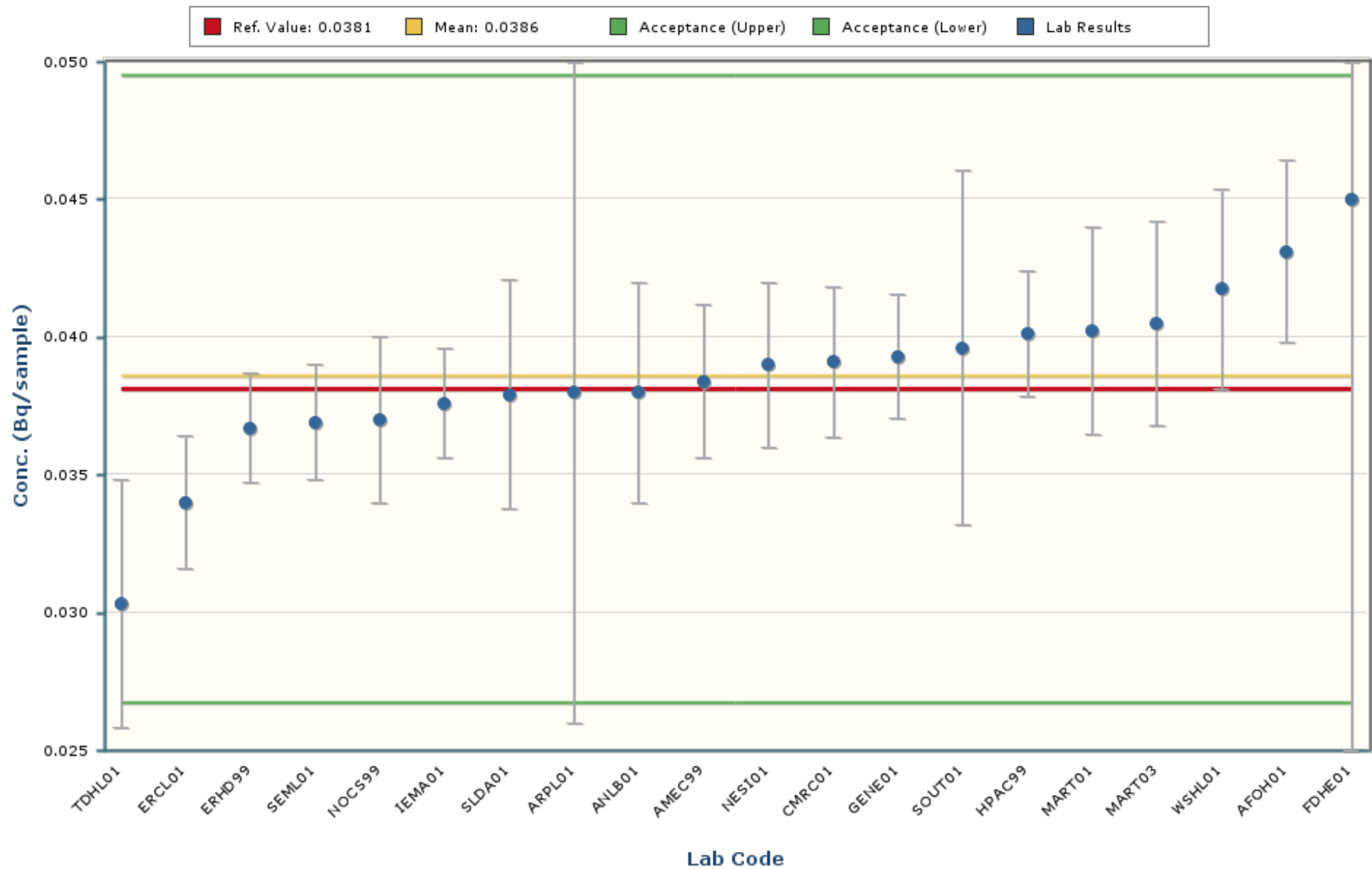
The chart mean excludes values outside of a bias range of $\pm 30\%$.

The chart shows only data points with values between 0.67 and 1.54 (± 5 Standard Deviations).

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

Uranium-234

MAPEP-25-RdF53



Notes:

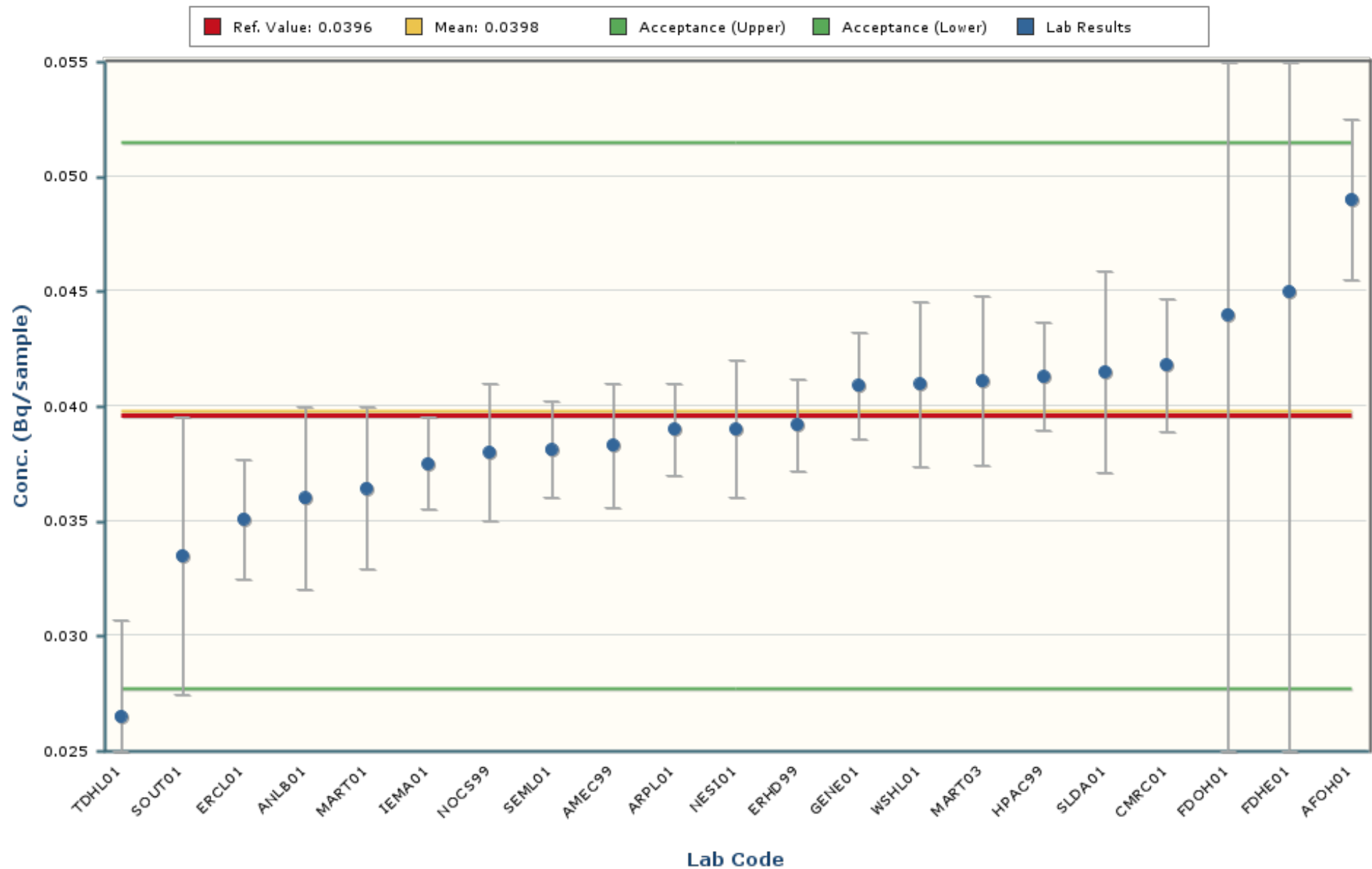
The chart mean excludes values outside of a bias range of $\pm 30\%$.

The chart shows only data points with values between 0.0231 and 0.0541 (± 5 Standard Deviations).

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

Uranium-238

MAPEP-25-RdF53



Notes:

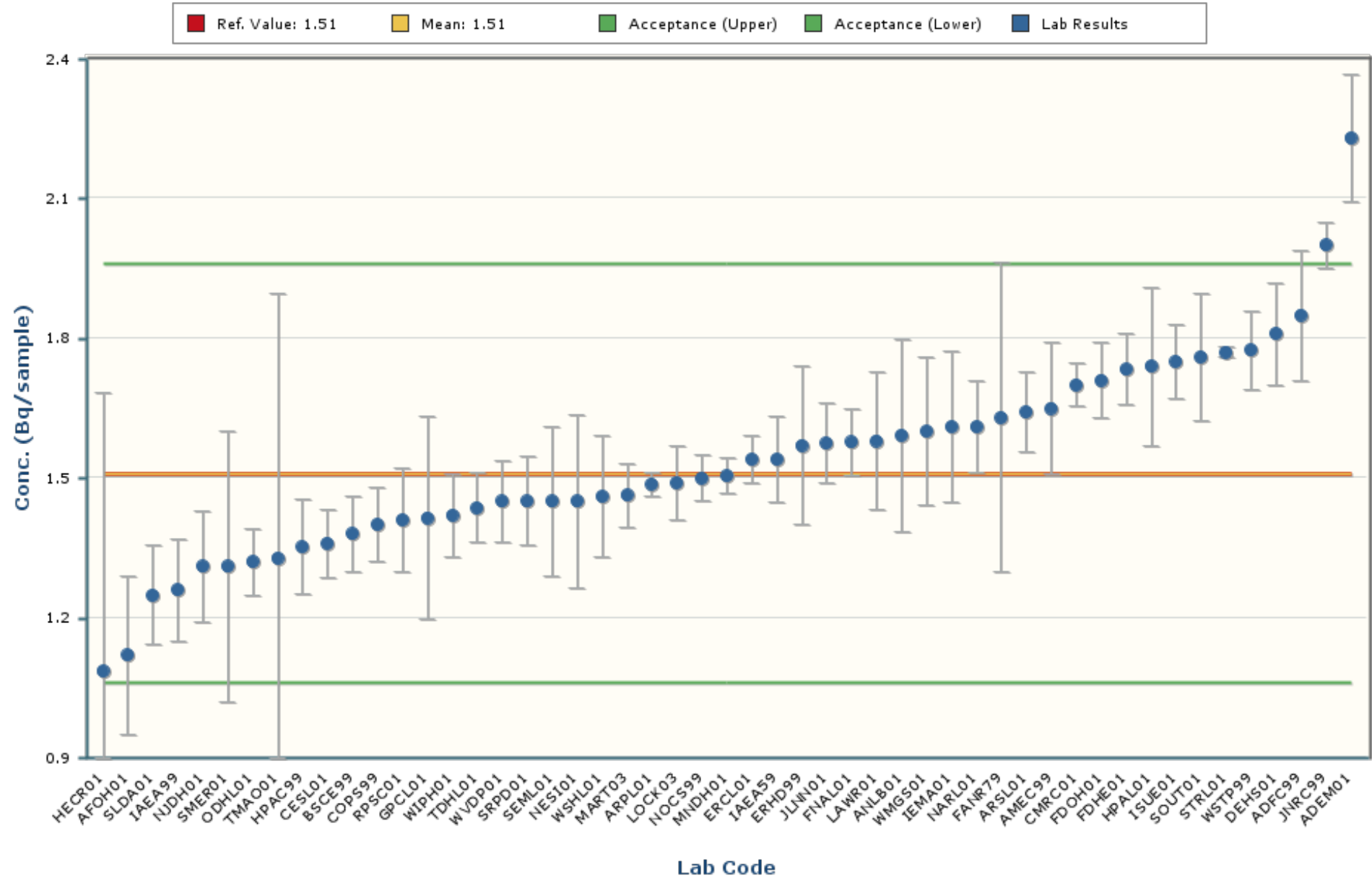
The chart mean excludes values outside of a bias range of $\pm 30\%$.

The chart shows only data points with values between 0.0218 and 0.0578 (± 5 Standard Deviations).

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

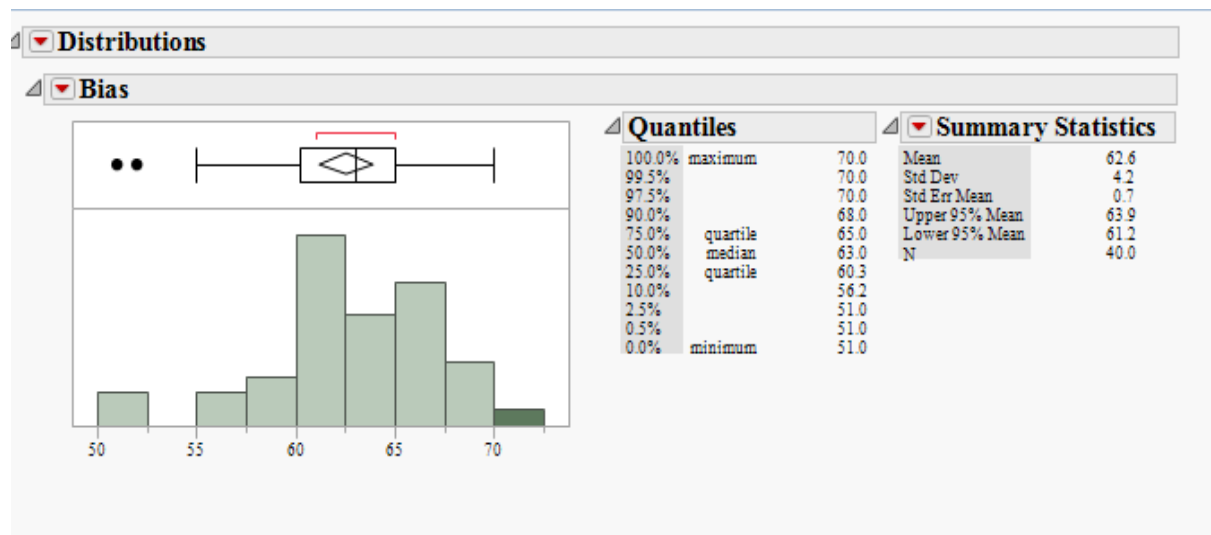
Zinc-65

MAPEP-25-RdF53



Notes:
The chart mean excludes values outside of a bias range of $\pm 30\%$.
The chart shows only data points with values between 0.63 and 2.39 (± 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.

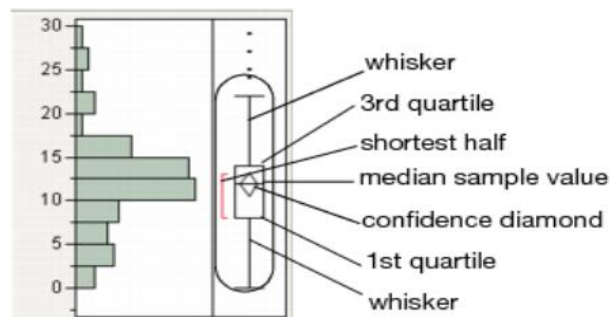


Outlier Box Plot

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)

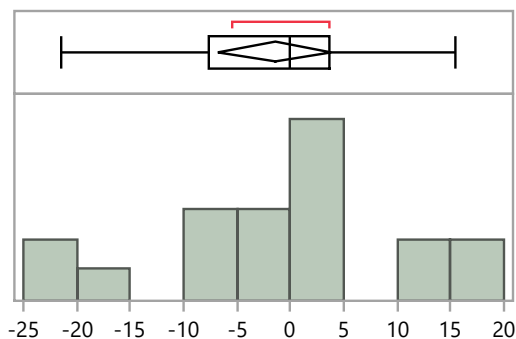


If the data points do not reach the computed ranges, then the whiskers are determined by the upper and lower data point values (not including outliers). The bracket outside of the box identifies the *shortest half*, which is the most dense 50% of the observations (Rousseuw and Leroy 1987).

RdF53 Distribution by Detection Method

Distributions Analyte_Detection=Americium-241 Alpha Spectrometry

Bias



Quantiles

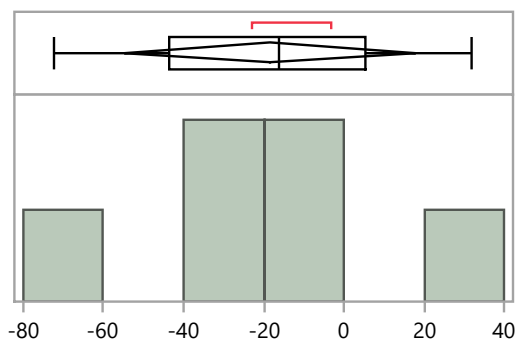
100.0%	maximum	15.4
99.5%		15.4
97.5%		15.4
90.0%		15.4
75.0%	quartile	3.6
50.0%	median	0.0
25.0%	quartile	-7.7
10.0%		-20.9
2.5%		-21.4
0.5%		-21.4
0.0%	minimum	-21.4

Summary Statistics

Mean	-1.5
Std Dev	10.9
Std Err Mean	2.5
Upper 95% Mean	3.8
Lower 95% Mean	-6.8
N	19.0

Distributions Analyte_Detection=Americium-241 Gamma Spectrometry

Bias



Quantiles

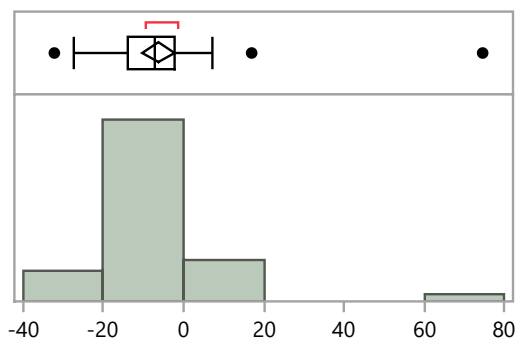
100.0%	maximum	31.9
99.5%		31.9
97.5%		31.9
90.0%		31.9
75.0%	quartile	5.6
50.0%	median	-16.2
25.0%	quartile	-43.7
10.0%		-72.5
2.5%		-72.5
0.5%		-72.5
0.0%	minimum	-72.5

Summary Statistics

Mean	-18.4
Std Dev	34.8
Std Err Mean	14.2
Upper 95% Mean	18.1
Lower 95% Mean	-54.9
N	6.0

Distributions Analyte_Detection=Cesium-134 Gamma Spectrometry

Bias

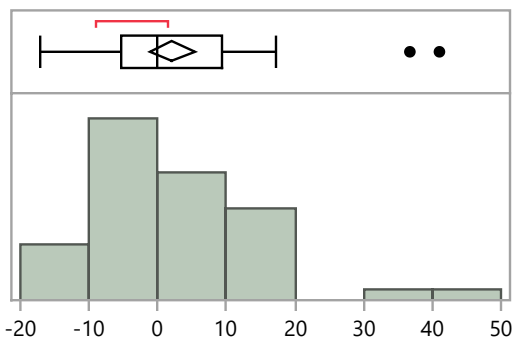


Quantiles

100.0%	maximum	74.6
99.5%		74.6
97.5%		55.9
90.0%		3.3
75.0%	quartile	-2.3
50.0%	median	-7.2
25.0%	quartile	-13.9
10.0%		-21.7
2.5%		-30.6
0.5%		-32.2
0.0%	minimum	-32.2

Summary Statistics

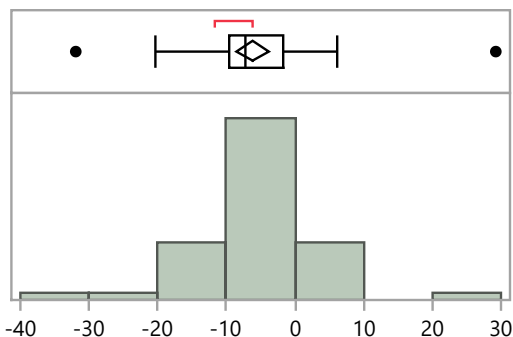
Mean	-6.4
Std Dev	14.6
Std Err Mean	2.0
Upper 95% Mean	-2.4
Lower 95% Mean	-10.5
N	52.0

RdF53 Distribution by Detection Method**Distributions Analyte_Detection=Cesium-137 Gamma Spectrometry****Bias****Quantiles**

100.0%	maximum	41.0
99.5%		41.0
97.5%		39.6
90.0%		15.2
75.0%	quartile	9.3
50.0%	median	0.0
25.0%	quartile	-5.3
10.0%		-10.8
2.5%		-16.2
0.5%		-17.2
0.0%	minimum	-17.2

Summary Statistics

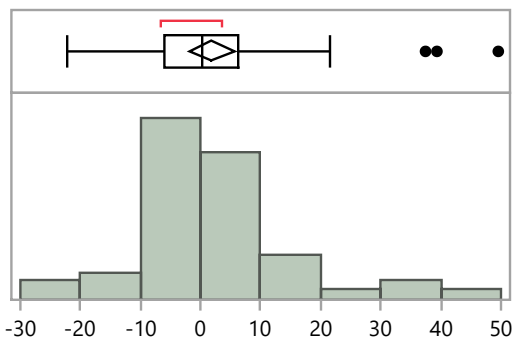
Mean	2.2
Std Dev	11.3
Std Err Mean	1.6
Upper 95% Mean	5.3
Lower 95% Mean	-1.0
N	52.0

Distributions Analyte_Detection=Cobalt-57 Gamma Spectrometry**Bias****Quantiles**

100.0%	maximum	29.2
99.5%		29.2
97.5%		22.9
90.0%		3.4
75.0%	quartile	-1.8
50.0%	median	-7.1
25.0%	quartile	-9.7
10.0%		-14.9
2.5%		-28.7
0.5%		-31.9
0.0%	minimum	-31.9

Summary Statistics

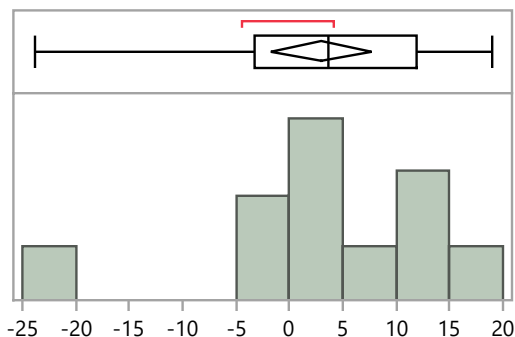
Mean	-6.2
Std Dev	8.6
Std Err Mean	1.2
Upper 95% Mean	-3.8
Lower 95% Mean	-8.7
N	50.0

Distributions Analyte_Detection=Manganese-54 Gamma Spectrometry**Bias****Quantiles**

100.0%	maximum	49.5
99.5%		49.5
97.5%		46.2
90.0%		14.4
75.0%	quartile	6.3
50.0%	median	0.4
25.0%	quartile	-5.9
10.0%		-10.1
2.5%		-22.0
0.5%		-22.1
0.0%	minimum	-22.1

Summary Statistics

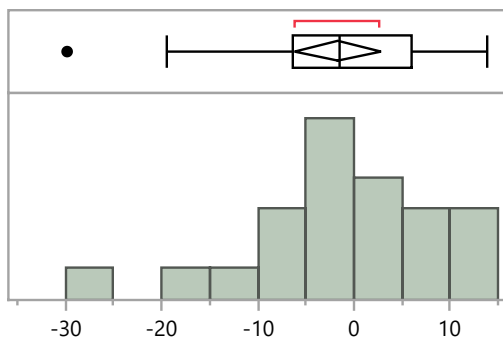
Mean	1.9
Std Dev	13.2
Std Err Mean	1.8
Upper 95% Mean	5.5
Lower 95% Mean	-1.8
N	52.0

RdF53 Distribution by Detection Method**Distributions Analyte_Detection=Plutonium-238 Alpha Spectrometry****Bias****Quantiles**

100.0%	maximum	19.0
99.5%		19.0
97.5%		19.0
90.0%		14.6
75.0%	quartile	11.9
50.0%	median	3.7
25.0%	quartile	-3.2
10.0%		-16.8
2.5%		-23.8
0.5%		-23.8
0.0%	minimum	-23.8

Summary Statistics

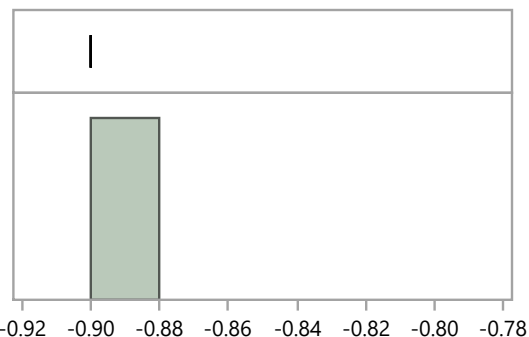
Mean	3.0
Std Dev	10.7
Std Err Mean	2.3
Upper 95% Mean	7.7
Lower 95% Mean	-1.8
N	22.0

Distributions Analyte_Detection=Plutonium-239/240 Alpha Spectrometry**Bias****Quantiles**

100.0%	maximum	13.9
99.5%		13.9
97.5%		13.9
90.0%		10.5
75.0%	quartile	6.1
50.0%	median	-1.5
25.0%	quartile	-6.3
10.0%		-16.8
2.5%		-29.8
0.5%		-29.8
0.0%	minimum	-29.8

Summary Statistics

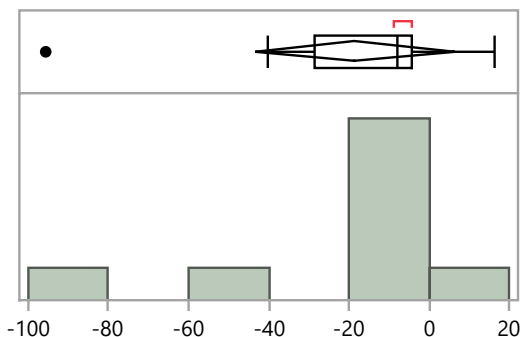
Mean	-1.7
Std Dev	10.1
Std Err Mean	2.2
Upper 95% Mean	2.8
Lower 95% Mean	-6.2
N	22.0

Distributions Analyte_Detection=Strontium-90 Gamma Spectrometry**Bias****Quantiles**

100.0%	maximum	-0.9
99.5%		-0.9
97.5%		-0.9
90.0%		-0.9
75.0%	quartile	-0.9
50.0%	median	-0.9
25.0%	quartile	-0.9
10.0%		-0.9
2.5%		-0.9
0.5%		-0.9
0.0%	minimum	-0.9

Summary Statistics

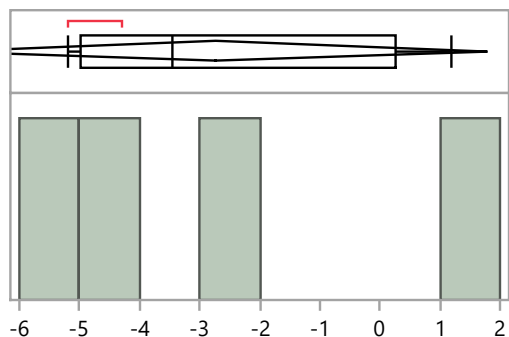
Mean	-0.9
Std Dev	.
Std Err Mean	.
Upper 95% Mean	.
Lower 95% Mean	.
N	1.0

RdF53 Distribution by Detection Method**Distributions Analyte_Detection=Strontium-90 Gas Flow Proportional Counter****Bias****Quantiles**

100.0%	maximum	16.3
99.5%		16.3
97.5%		16.3
90.0%		16.3
75.0%	quartile	-4.2
50.0%	median	-7.8
25.0%	quartile	-28.5
10.0%		-95.6
2.5%		-95.6
0.5%		-95.6
0.0%	minimum	-95.6

Summary Statistics

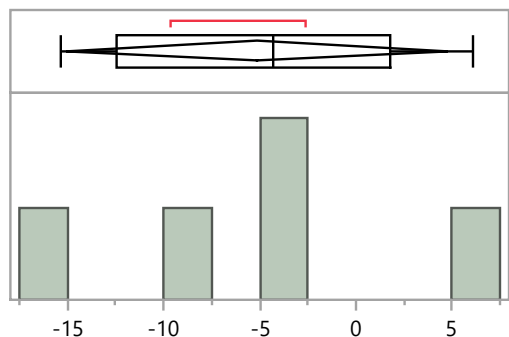
Mean	-18.6
Std Dev	32.4
Std Err Mean	10.8
Upper 95% Mean	6.4
Lower 95% Mean	-43.5
N	9.0

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

100.0%	maximum	1.2
99.5%		1.2
97.5%		1.2
90.0%		1.2
75.0%	quartile	0.2
50.0%	median	-3.5
25.0%	quartile	-5.0
10.0%		-5.2
2.5%		-5.2
0.5%		-5.2
0.0%	minimum	-5.2

Summary Statistics

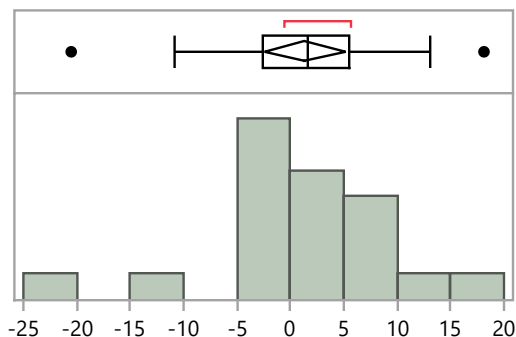
Mean	-2.7
Std Dev	2.8
Std Err Mean	1.4
Upper 95% Mean	1.8
Lower 95% Mean	-7.2
N	4.0

Distributions Analyte_Detection=Strontium-90 Liquid Scintillation Counter**Bias****Quantiles**

100.0%	maximum	6.1
99.5%		6.1
97.5%		6.1
90.0%		6.1
75.0%	quartile	1.8
50.0%	median	-4.3
25.0%	quartile	-12.5
10.0%		-15.3
2.5%		-15.3
0.5%		-15.3
0.0%	minimum	-15.3

Summary Statistics

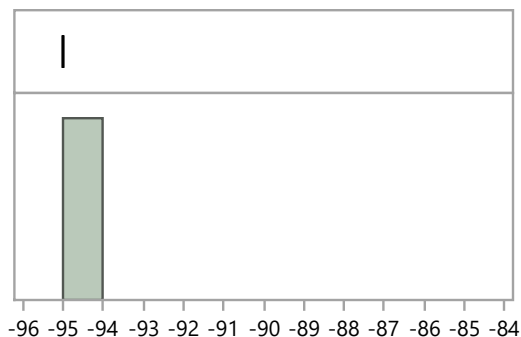
Mean	-5.1
Std Dev	8.0
Std Err Mean	3.6
Upper 95% Mean	4.8
Lower 95% Mean	-15.1
N	5.0

RdF53 Distribution by Detection Method**Distributions Analyte_Detection=Uranium-234 Alpha Spectrometry****Bias****Quantiles**

100.0%	maximum	18.1
99.5%		18.1
97.5%		18.1
90.0%		12.8
75.0%	quartile	5.5
50.0%	median	1.6
25.0%	quartile	-2.5
10.0%		-10.1
2.5%		-20.5
0.5%		-20.5
0.0%	minimum	-20.5

Summary Statistics

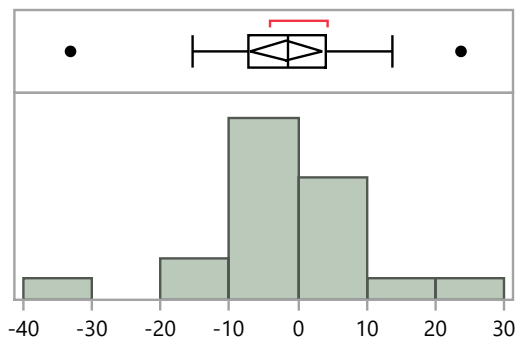
Mean	1.4
Std Dev	8.2
Std Err Mean	1.8
Upper 95% Mean	5.2
Lower 95% Mean	-2.4
N	20.0

Distributions Analyte_Detection=Uranium-234 Inductively Coupled Plasma Mass Spectrometry**Bias****Quantiles**

100.0%	maximum	-95.0
99.5%		-95.0
97.5%		-95.0
90.0%		-95.0
75.0%	quartile	-95.0
50.0%	median	-95.0
25.0%	quartile	-95.0
10.0%		-95.0
2.5%		-95.0
0.5%		-95.0
0.0%	minimum	-95.0

Summary Statistics

Mean	-95.0
Std Dev	.
Std Err Mean	.
Upper 95% Mean	.
Lower 95% Mean	.
N	1.0

Distributions Analyte_Detection=Uranium-238 Alpha Spectrometry**Bias****Quantiles**

100.0%	maximum	23.7
99.5%		23.7
97.5%		23.7
90.0%		12.8
75.0%	quartile	4.1
50.0%	median	-1.5
25.0%	quartile	-7.3
10.0%		-15.0
2.5%		-33.1
0.5%		-33.1
0.0%	minimum	-33.1

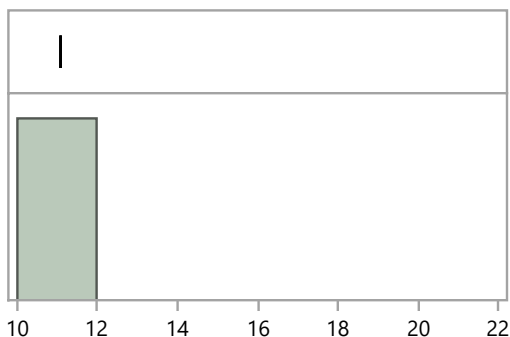
Summary Statistics

Mean	-1.7
Std Dev	11.4
Std Err Mean	2.6
Upper 95% Mean	3.6
Lower 95% Mean	-7.1
N	20.0

RdF53 Distribution by Detection Method

Distributions Analyte_Detection=Uranium-238 Gamma Spectrometry

Bias



Quantiles

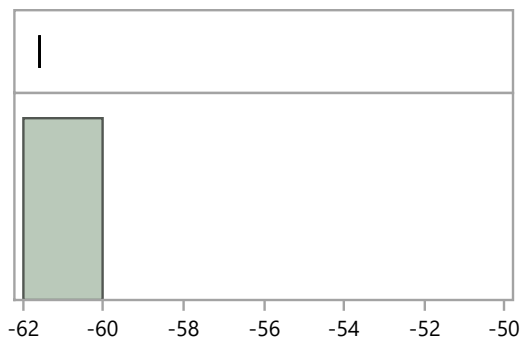
100.0%	maximum	11.1
99.5%		11.1
97.5%		11.1
90.0%		11.1
75.0%	quartile	11.1
50.0%	median	11.1
25.0%	quartile	11.1
10.0%		11.1
2.5%		11.1
0.5%		11.1
0.0%	minimum	11.1

Summary Statistics

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

Distributions Analyte_Detection=Uranium-238 Inductively Coupled Plasma Mass Spectrometry

Bias



Quantiles

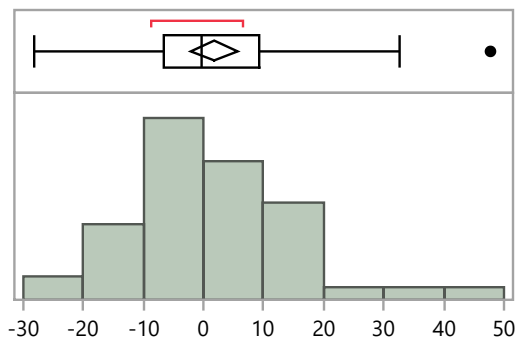
100.0%	maximum	-61.6
99.5%		-61.6
97.5%		-61.6
90.0%		-61.6
75.0%	quartile	-61.6
50.0%	median	-61.6
25.0%	quartile	-61.6
10.0%		-61.6
2.5%		-61.6
0.5%		-61.6
0.0%	minimum	-61.6

Summary Statistics

Mean	-61.6
Std Dev	.
Std Err Mean	.
Upper 95% Mean	.
Lower 95% Mean	.
N	1.0

Distributions Analyte_Detection=Zinc-65 Gamma Spectrometry

Bias

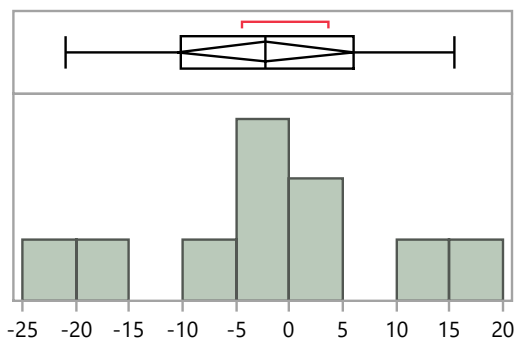


Quantiles

100.0%	maximum	47.7
99.5%		47.7
97.5%		43.1
90.0%		17.5
75.0%	quartile	9.3
50.0%	median	-0.4
25.0%	quartile	-6.6
10.0%		-13.2
2.5%		-27.4
0.5%		-28.1
0.0%	minimum	-28.1

Summary Statistics

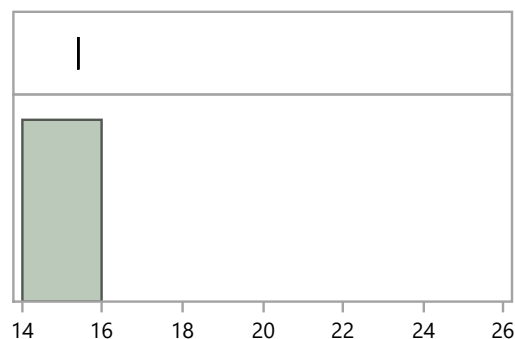
Mean	1.8
Std Dev	13.9
Std Err Mean	1.9
Upper 95% Mean	5.7
Lower 95% Mean	-2.1
N	51.0

RdF53 Distribution by Preparation Method**Distributions Analyte_Method=Americium-241 Acid dissolution with hydrofluoric acid****Bias****Quantiles**

100.0%	maximum	15.4
99.5%		15.4
97.5%		15.4
90.0%		15.2
75.0%	quartile	6.0
50.0%	median	-2.2
25.0%	quartile	-10.2
10.0%		-20.6
2.5%		-20.9
0.5%		-20.9
0.0%	minimum	-20.9

Summary Statistics

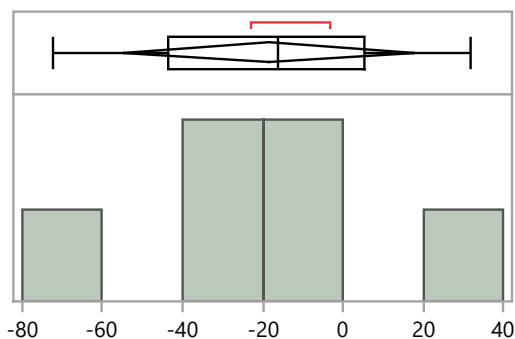
Mean	-2.2
Std Dev	11.6
Std Err Mean	3.7
Upper 95% Mean	6.1
Lower 95% Mean	-10.5
N	10.0

Distributions Analyte_Method=Americium-241 Coprecipitation, acidified**Bias****Quantiles**

100.0%	maximum	15.4
99.5%		15.4
97.5%		15.4
90.0%		15.4
75.0%	quartile	15.4
50.0%	median	15.4
25.0%	quartile	15.4
10.0%		15.4
2.5%		15.4
0.5%		15.4
0.0%	minimum	15.4

Summary Statistics

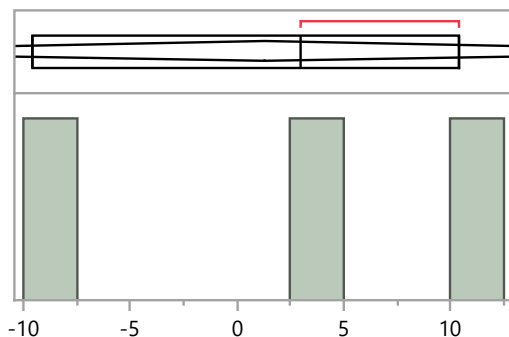
Mean	15.4
Std Dev	.
Std Err Mean	.
Upper 95% Mean	.
Lower 95% Mean	.
N	1.0

Distributions Analyte_Method=Americium-241 No preparation - analyzed as received**Bias****Quantiles**

100.0%	maximum	31.9
99.5%		31.9
97.5%		31.9
90.0%		31.9
75.0%	quartile	5.6
50.0%	median	-16.2
25.0%	quartile	-43.7
10.0%		-72.5
2.5%		-72.5
0.5%		-72.5
0.0%	minimum	-72.5

Summary Statistics

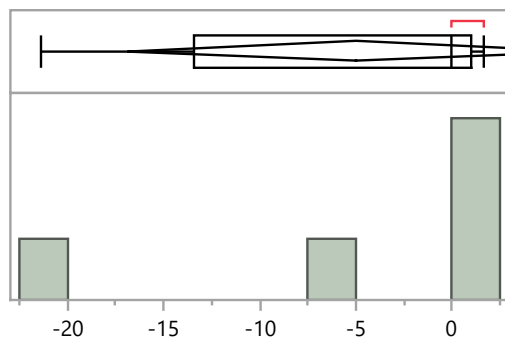
Mean	-18.4
Std Dev	34.8
Std Err Mean	14.2
Upper 95% Mean	18.1
Lower 95% Mean	-54.9
N	6.0

RdF53 Distribution by Preparation Method**Distributions Analyte_Method=Americium-241 Other****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	3.0
25.0%	quartile	-9.6
10.0%		-9.6
2.5%		-9.6
0.5%		-9.6
0.0%	minimum	-9.6

Summary Statistics

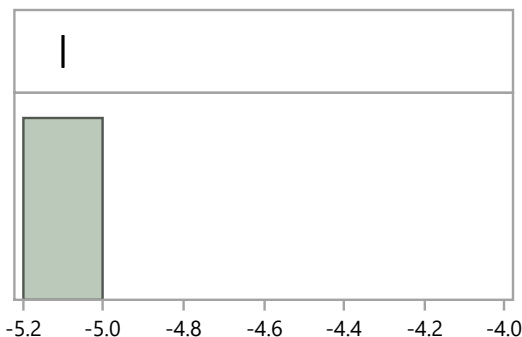
Mean	1.3
Std Dev	10.1
Std Err Mean	5.8
Upper 95% Mean	26.4
Lower 95% Mean	-23.9
N	3.0

Distributions Analyte_Method=Americium-241 Total dissolution by fusion**Bias****Quantiles**

100.0%	maximum	1.6
99.5%		1.6
97.5%		1.6
90.0%		1.6
75.0%	quartile	1.0
50.0%	median	0.0
25.0%	quartile	-13.5
10.0%		-21.4
2.5%		-21.4
0.5%		-21.4
0.0%	minimum	-21.4

Summary Statistics

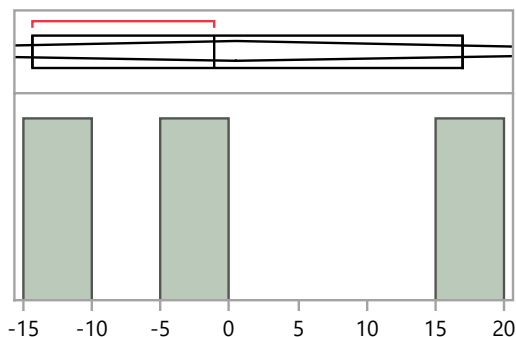
Mean	-5.0
Std Dev	9.6
Std Err Mean	4.3
Upper 95% Mean	6.9
Lower 95% Mean	-16.9
N	5.0

Distributions Analyte_Method=Cesium-134 Acid dissolution with hydrofluoric acid**Bias****Quantiles**

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

Summary Statistics

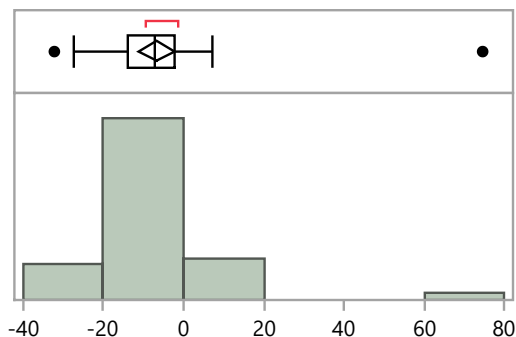
Mean	-5.1
Std Dev	.
Std Err Mean	.
Upper 95% Mean	.
Lower 95% Mean	.
N	1.0

RdF53 Distribution by Preparation Method**Distributions Analyte_Method=Cesium-134 EPA 901.1, Gamma Emitting, 600/4-80-032****Bias****Quantiles**

100.0%	maximum	17.0
99.5%		17.0
97.5%		17.0
90.0%		17.0
75.0%	quartile	17.0
50.0%	median	-1.1
25.0%	quartile	-14.3
10.0%		-14.3
2.5%		-14.3
0.5%		-14.3
0.0%	minimum	-14.3

Summary Statistics

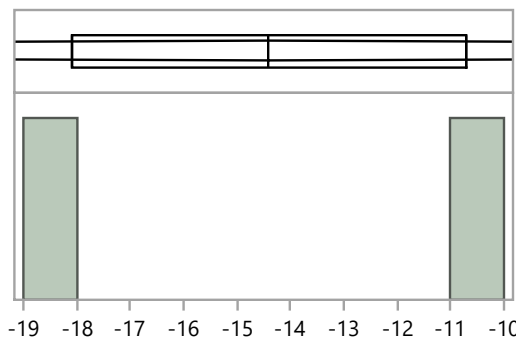
Mean	0.5
Std Dev	15.7
Std Err Mean	9.1
Upper 95% Mean	39.6
Lower 95% Mean	-38.5
N	3.0

Distributions Analyte_Method=Cesium-134 No preparation - analyzed as received**Bias****Quantiles**

100.0%	maximum	74.6
99.5%		74.6
97.5%		62.8
90.0%		3.1
75.0%	quartile	-2.4
50.0%	median	-7.2
25.0%	quartile	-13.7
10.0%		-22.3
2.5%		-31.3
0.5%		-32.2
0.0%	minimum	-32.2

Summary Statistics

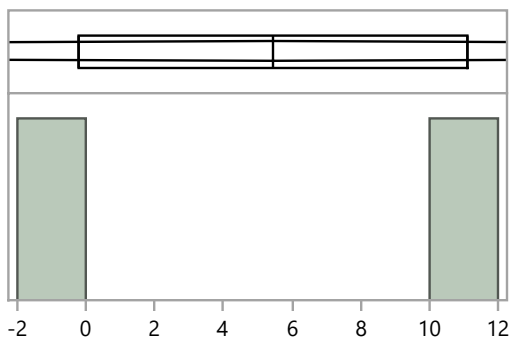
Mean	-6.6
Std Dev	15.0
Std Err Mean	2.2
Upper 95% Mean	-2.1
Lower 95% Mean	-11.0
N	46.0

Distributions Analyte_Method=Cesium-134 Other**Bias****Quantiles**

100.0%	maximum	-10.7
99.5%		-10.7
97.5%		-10.7
90.0%		-10.7
75.0%	quartile	-10.7
50.0%	median	-14.4
25.0%	quartile	-18.1
10.0%		-18.1
2.5%		-18.1
0.5%		-18.1
0.0%	minimum	-18.1

Summary Statistics

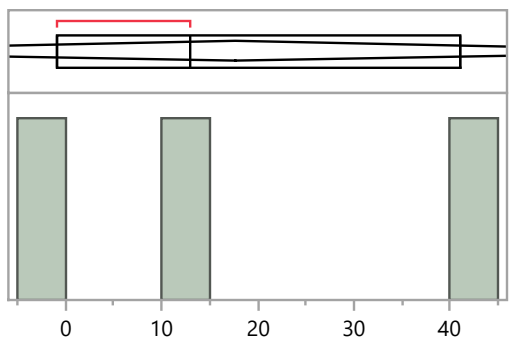
Mean	-14.4
Std Dev	5.2
Std Err Mean	3.7
Upper 95% Mean	32.6
Lower 95% Mean	-61.4
N	2.0

RdF53 Distribution by Preparation Method**Distributions Analyte_Method=Cesium-137 Acid dissolution with hydrofluoric acid****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	5.5
25.0%	quartile	-0.2
10.0%		-0.2
2.5%		-0.2
0.5%		-0.2
0.0%	minimum	-0.2

Summary Statistics

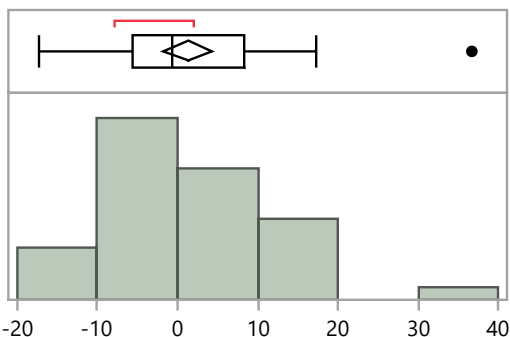
Mean	5.5
Std Dev	8.0
Std Err Mean	5.7
Upper 95% Mean	77.2
Lower 95% Mean	-66.3
N	2.0

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

100.0%	maximum	41.0
99.5%		41.0
97.5%		41.0
90.0%		41.0
75.0%	quartile	41.0
50.0%	median	13.0
25.0%	quartile	-0.8
10.0%		-0.8
2.5%		-0.8
0.5%		-0.8
0.0%	minimum	-0.8

Summary Statistics

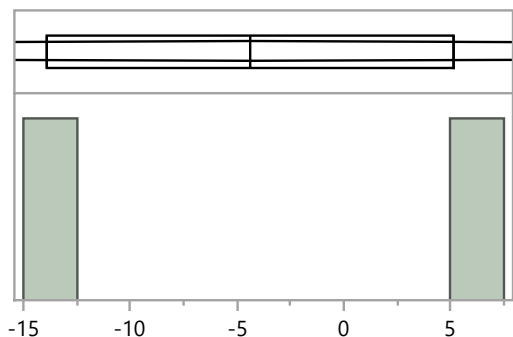
Mean	17.7
Std Dev	21.3
Std Err Mean	12.3
Upper 95% Mean	70.6
Lower 95% Mean	-35.2
N	3.0

Distributions Analyte_Method=Cesium-137 No preparation - analyzed as received**Bias****Quantiles**

100.0%	maximum	36.7
99.5%		36.7
97.5%		33.8
90.0%		15.2
75.0%	quartile	8.4
50.0%	median	-0.6
25.0%	quartile	-5.7
10.0%		-10.7
2.5%		-16.7
0.5%		-17.2
0.0%	minimum	-17.2

Summary Statistics

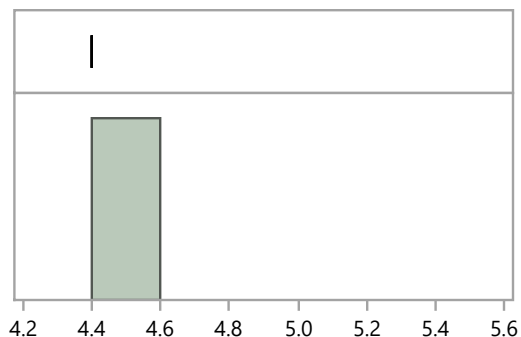
Mean	1.3
Std Dev	10.1
Std Err Mean	1.5
Upper 95% Mean	4.3
Lower 95% Mean	-1.8
N	45.0

RdF53 Distribution by Preparation Method**Distributions Analyte_Method=Cesium-137 Other****Bias****Quantiles**

100.0%	maximum	5.1
99.5%		5.1
97.5%		5.1
90.0%		5.1
75.0%	quartile	5.1
50.0%	median	-4.4
25.0%	quartile	-13.9
10.0%		-13.9
2.5%		-13.9
0.5%		-13.9
0.0%	minimum	-13.9

Summary Statistics

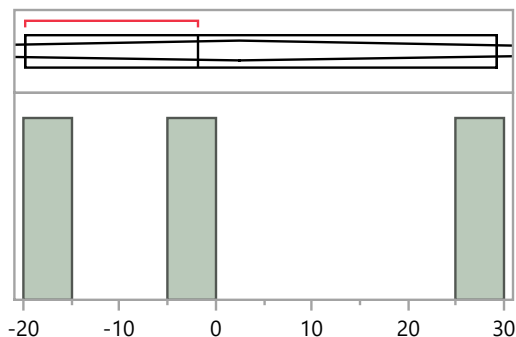
Mean	-4.4
Std Dev	13.4
Std Err Mean	9.5
Upper 95% Mean	116.3
Lower 95% Mean	-125.1
N	2.0

Distributions Analyte_Method=Cobalt-57 Acid dissolution with hydrofluoric acid**Bias****Quantiles**

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

Summary Statistics

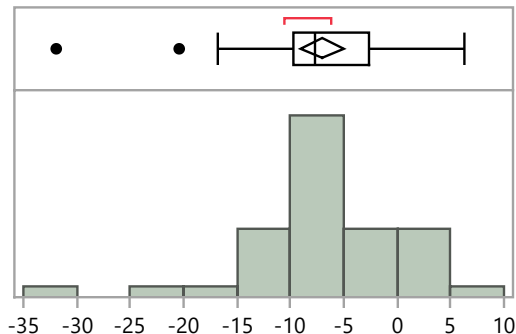
Mean	4.4
Std Dev	.
Std Err Mean	.
Upper 95% Mean	.
Lower 95% Mean	.
N	1.0

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

100.0%	maximum	29.2
99.5%		29.2
97.5%		29.2
90.0%		29.2
75.0%	quartile	29.2
50.0%	median	-1.8
25.0%	quartile	-19.7
10.0%		-19.7
2.5%		-19.7
0.5%		-19.7
0.0%	minimum	-19.7

Summary Statistics

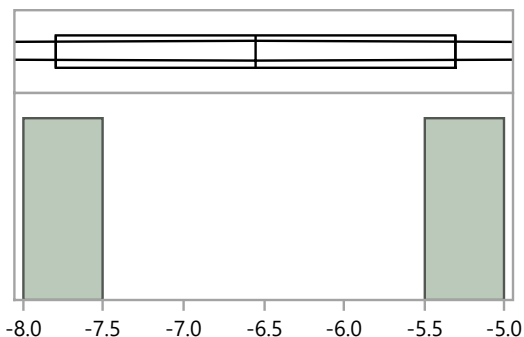
Mean	2.6
Std Dev	24.7
Std Err Mean	14.3
Upper 95% Mean	64.0
Lower 95% Mean	-58.9
N	3.0

RdF53 Distribution by Preparation Method**Distributions Analyte_Method=Cobalt-57 No preparation - analyzed as received****Bias****Quantiles**

100.0%	maximum	6.2
99.5%		6.2
97.5%		5.9
90.0%		2.5
75.0%	quartile	-2.7
50.0%	median	-7.7
25.0%	quartile	-9.7
10.0%		-14.4
2.5%		-30.5
0.5%		-31.9
0.0%	minimum	-31.9

Summary Statistics

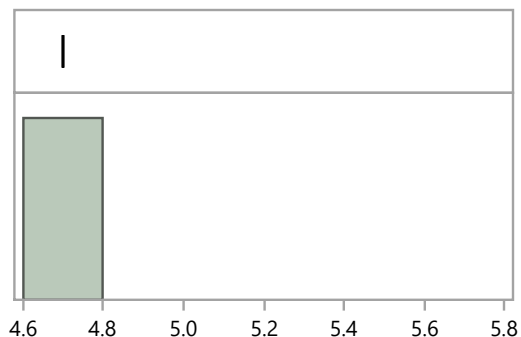
Mean	-7.1
Std Dev	6.8
Std Err Mean	1.0
Upper 95% Mean	-5.0
Lower 95% Mean	-9.1
N	44.0

Distributions Analyte_Method=Cobalt-57 Other**Bias****Quantiles**

100.0%	maximum	-5.3
99.5%		-5.3
97.5%		-5.3
90.0%		-5.3
75.0%	quartile	-5.3
50.0%	median	-6.6
25.0%	quartile	-7.8
10.0%		-7.8
2.5%		-7.8
0.5%		-7.8
0.0%	minimum	-7.8

Summary Statistics

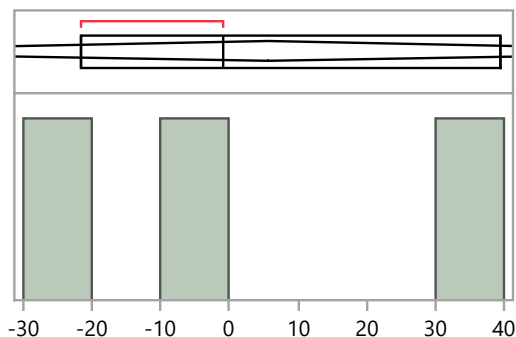
Mean	-6.6
Std Dev	1.8
Std Err Mean	1.3
Upper 95% Mean	9.3
Lower 95% Mean	-22.4
N	2.0

Distributions Analyte_Method=Manganese-54 Acid dissolution with hydrofluoric acid**Bias****Quantiles**

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

Summary Statistics

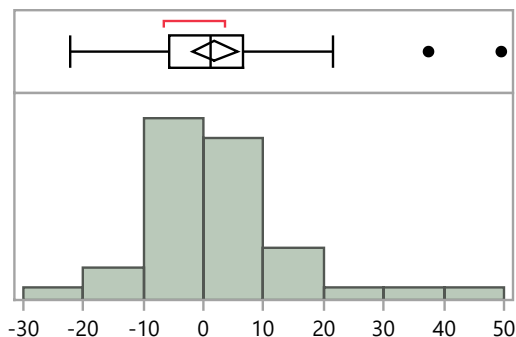
Mean	4.7
Std Dev	.
Std Err Mean	.
Upper 95% Mean	.
Lower 95% Mean	.
N	1.0

RdF53 Distribution by Preparation Method**Distributions Analyte_Method=Manganese-54 EPA 901.1, Gamma Emitting, 600/4-80-032****Bias****Quantiles**

100.0%	maximum	39.3
99.5%		39.3
97.5%		39.3
90.0%		39.3
75.0%	quartile	39.3
50.0%	median	-0.9
25.0%	quartile	-21.7
10.0%		-21.7
2.5%		-21.7
0.5%		-21.7
0.0%	minimum	-21.7

Summary Statistics

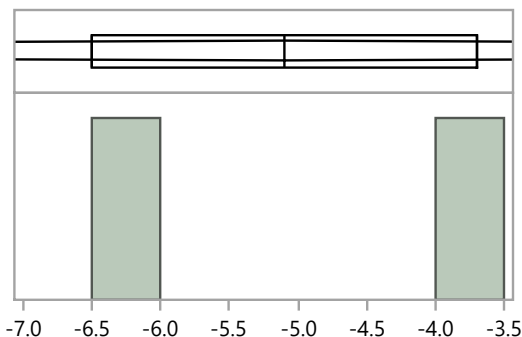
Mean	5.6
Std Dev	31.0
Std Err Mean	17.9
Upper 95% Mean	82.6
Lower 95% Mean	-71.5
N	3.0

Distributions Analyte_Method=Manganese-54 No preparation - analyzed as received**Bias****Quantiles**

100.0%	maximum	49.5
99.5%		49.5
97.5%		47.4
90.0%		13.7
75.0%	quartile	6.4
50.0%	median	1.2
25.0%	quartile	-5.7
10.0%		-10.1
2.5%		-20.9
0.5%		-22.1
0.0%	minimum	-22.1

Summary Statistics

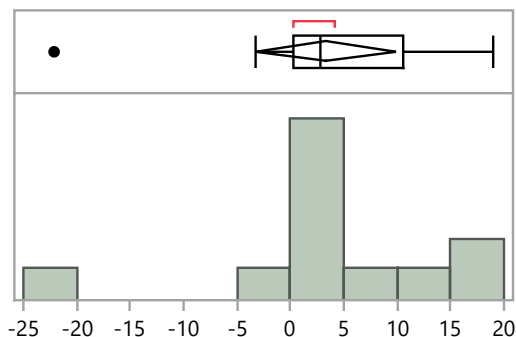
Mean	1.8
Std Dev	12.3
Std Err Mean	1.8
Upper 95% Mean	5.5
Lower 95% Mean	-1.8
N	46.0

Distributions Analyte_Method=Manganese-54 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	-5.1
25.0%	quartile	-6.5
10.0%		-6.5
2.5%		-6.5
0.5%		-6.5
0.0%	minimum	-6.5

Summary Statistics

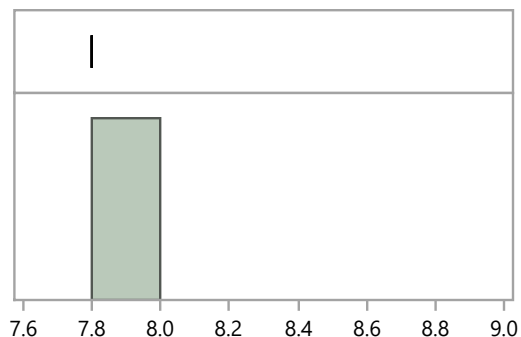
Mean	-5.1
Std Dev	2.0
Std Err Mean	1.4
Upper 95% Mean	12.7
Lower 95% Mean	-22.9
N	2.0

RdF53 Distribution by Preparation Method**Distributions Analyte_Method=Plutonium-238 Acid dissolution with hydrofluoric acid****Bias****Quantiles**

100.0%	maximum	19.0
99.5%		19.0
97.5%		19.0
90.0%		17.9
75.0%	quartile	10.5
50.0%	median	2.9
25.0%	quartile	0.3
10.0%		-16.4
2.5%		-22.1
0.5%		-22.1
0.0%	minimum	-22.1

Summary Statistics

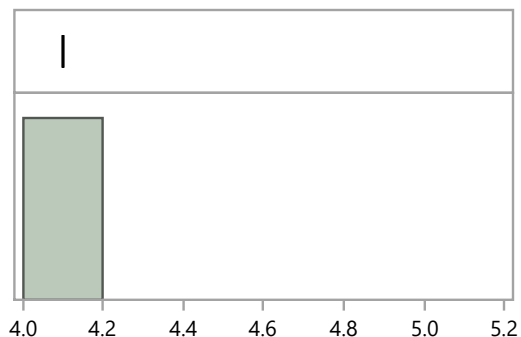
Mean	3.3
Std Dev	10.4
Std Err Mean	3.0
Upper 95% Mean	9.9
Lower 95% Mean	-3.3
N	12.0

Distributions Analyte_Method=Plutonium-238 Acid leaching without hydrofluoric acid**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	7.8
25.0%	quartile	7.8
10.0%		7.8
2.5%		7.8
0.5%		7.8
0.0%	minimum	7.8

Summary Statistics

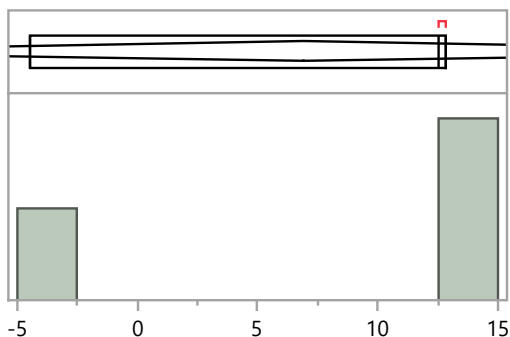
Mean	7.8
Std Dev	.
Std Err Mean	.
Upper 95% Mean	.
Lower 95% Mean	.
N	1.0

Distributions Analyte_Method=Plutonium-238 Coprecipitation, acidified**Bias****Quantiles**

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

Summary Statistics

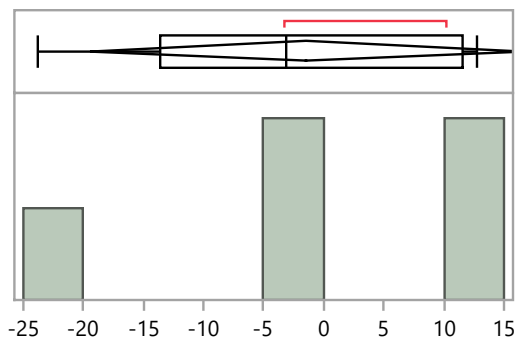
Mean	4.1
Std Dev	.
Std Err Mean	.
Upper 95% Mean	.
Lower 95% Mean	.
N	1.0

RdF53 Distribution by Preparation Method**Distributions Analyte_Method=Plutonium-238 Other****Bias****Quantiles**

100.0%	maximum	12.8
99.5%		12.8
97.5%		12.8
90.0%		12.8
75.0%	quartile	12.8
50.0%	median	12.5
25.0%	quartile	-4.5
10.0%		-4.5
2.5%		-4.5
0.5%		-4.5
0.0%	minimum	-4.5

Summary Statistics

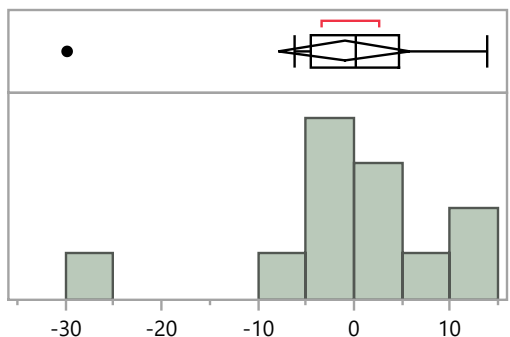
Mean	6.9
Std Dev	9.9
Std Err Mean	5.7
Upper 95% Mean	31.5
Lower 95% Mean	-17.7
N	3.0

Distributions Analyte_Method=Plutonium-238 Total dissolution by fusion**Bias****Quantiles**

100.0%	maximum	12.8
99.5%		12.8
97.5%		12.8
90.0%		12.8
75.0%	quartile	11.5
50.0%	median	-3.2
25.0%	quartile	-13.6
10.0%		-23.8
2.5%		-23.8
0.5%		-23.8
0.0%	minimum	-23.8

Summary Statistics

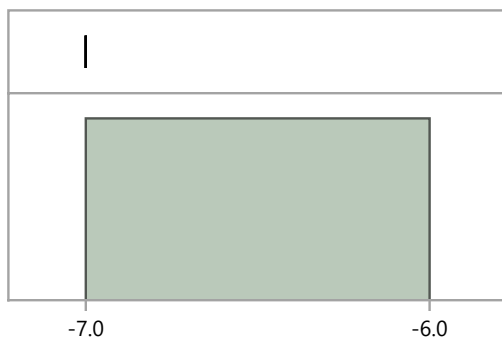
Mean	-1.5
Std Dev	14.5
Std Err Mean	6.5
Upper 95% Mean	16.6
Lower 95% Mean	-19.5
N	5.0

Distributions Analyte_Method=Plutonium-239/240 Acid dissolution with hydrofluoric acid**Bias****Quantiles**

100.0%	maximum	13.9
99.5%		13.9
97.5%		13.9
90.0%		12.9
75.0%	quartile	4.7
50.0%	median	0.2
25.0%	quartile	-4.5
10.0%		-22.7
2.5%		-29.8
0.5%		-29.8
0.0%	minimum	-29.8

Summary Statistics

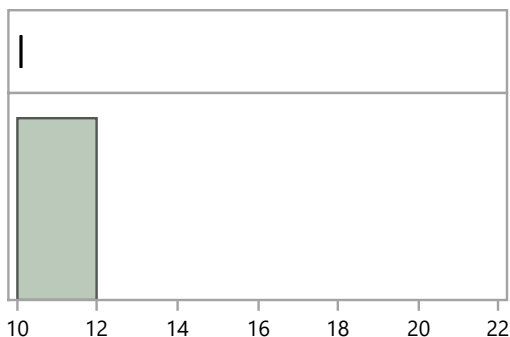
Mean	-1.0
Std Dev	10.9
Std Err Mean	3.1
Upper 95% Mean	5.9
Lower 95% Mean	-7.9
N	12.0

RdF53 Distribution by Preparation Method**Distributions Analyte_Method=Plutonium-239/240 Acid leaching without hydrofluoric acid****Bias****Quantiles**

100.0%	maximum	-7.0
99.5%		-7.0
97.5%		-7.0
90.0%		-7.0
75.0%	quartile	-7.0
50.0%	median	-7.0
25.0%	quartile	-7.0
10.0%		-7.0
2.5%		-7.0
0.5%		-7.0
0.0%	minimum	-7.0

Summary Statistics

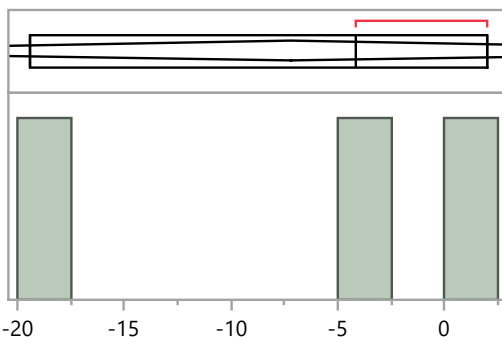
Mean	-7.0
Std Dev	.
Std Err Mean	.
Upper 95% Mean	.
Lower 95% Mean	.
N	1.0

Distributions Analyte_Method=Plutonium-239/240 Coprecipitation, acidified**Bias****Quantiles**

100.0%	maximum	10.1
99.5%		10.1
97.5%		10.1
90.0%		10.1
75.0%	quartile	10.1
50.0%	median	10.1
25.0%	quartile	10.1
10.0%		10.1
2.5%		10.1
0.5%		10.1
0.0%	minimum	10.1

Summary Statistics

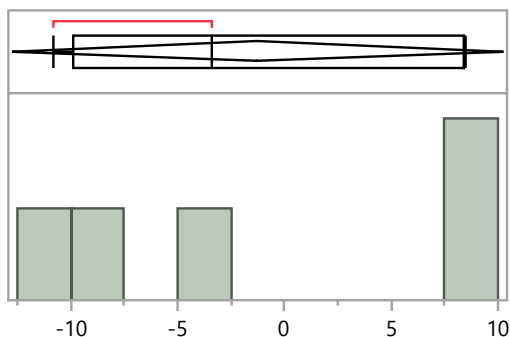
Mean	10.1
Std Dev	.
Std Err Mean	.
Upper 95% Mean	.
Lower 95% Mean	.
N	1.0

Distributions Analyte_Method=Plutonium-239/240 Other**Bias****Quantiles**

100.0%	maximum	2.0
99.5%		2.0
97.5%		2.0
90.0%		2.0
75.0%	quartile	2.0
50.0%	median	-4.2
25.0%	quartile	-19.4
10.0%		-19.4
2.5%		-19.4
0.5%		-19.4
0.0%	minimum	-19.4

Summary Statistics

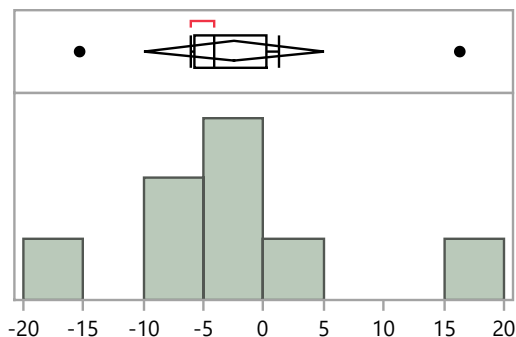
Mean	-7.2
Std Dev	11.0
Std Err Mean	6.4
Upper 95% Mean	20.2
Lower 95% Mean	-34.6
N	3.0

RdF53 Distribution by Preparation Method**Distributions Analyte_Method=Plutonium-239/240 Total dissolution by fusion****Bias****Quantiles**

100.0%	maximum	8.5
99.5%		8.5
97.5%		8.5
90.0%		8.5
75.0%	quartile	8.4
50.0%	median	-3.4
25.0%	quartile	-9.9
10.0%		-10.8
2.5%		-10.8
0.5%		-10.8
0.0%	minimum	-10.8

Summary Statistics

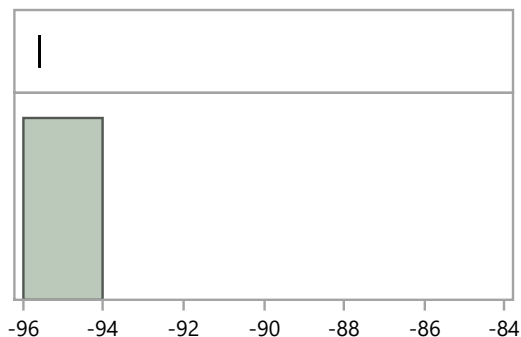
Mean	-1.3
Std Dev	9.2
Std Err Mean	4.1
Upper 95% Mean	10.2
Lower 95% Mean	-12.7
N	5.0

Distributions Analyte_Method=Strontium-90 Acid dissolution with hydrofluoric acid**Bias****Quantiles**

100.0%	maximum	16.3
99.5%		16.3
97.5%		16.3
90.0%		16.3
75.0%	quartile	0.2
50.0%	median	-4.2
25.0%	quartile	-5.8
10.0%		-15.3
2.5%		-15.3
0.5%		-15.3
0.0%	minimum	-15.3

Summary Statistics

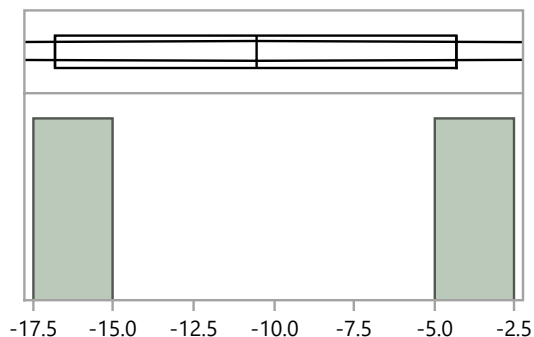
Mean	-2.5
Std Dev	8.9
Std Err Mean	3.2
Upper 95% Mean	5.0
Lower 95% Mean	-9.9
N	8.0

Distributions Analyte_Method=Strontium-90 Acid leaching without hydrofluoric acid**Bias****Quantiles**

100.0%	maximum	-95.6
99.5%		-95.6
97.5%		-95.6
90.0%		-95.6
75.0%	quartile	-95.6
50.0%	median	-95.6
25.0%	quartile	-95.6
10.0%		-95.6
2.5%		-95.6
0.5%		-95.6
0.0%	minimum	-95.6

Summary Statistics

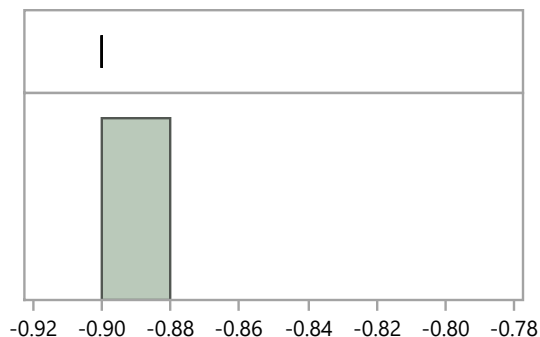
Mean	-95.6
Std Dev	.
Std Err Mean	.
Upper 95% Mean	.
Lower 95% Mean	.
N	1.0

RdF53 Distribution by Preparation Method**Distributions Analyte_Method=Strontium-90 EPA 905, Radioactive Strontium, 600/4-80-032****Bias****Quantiles**

100.0%	maximum	-4.3
99.5%		-4.3
97.5%		-4.3
90.0%		-4.3
75.0%	quartile	-4.3
50.0%	median	-10.6
25.0%	quartile	-16.8
10.0%		-16.8
2.5%		-16.8
0.5%		-16.8
0.0%	minimum	-16.8

Summary Statistics

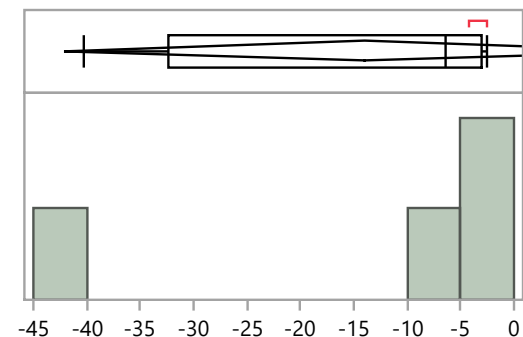
Mean	-10.6
Std Dev	8.8
Std Err Mean	6.3
Upper 95% Mean	68.9
Lower 95% Mean	-90.0
N	2.0

Distributions Analyte_Method=Strontium-90 No preparation - analyzed as received**Bias****Quantiles**

100.0%	maximum	-0.9
99.5%		-0.9
97.5%		-0.9
90.0%		-0.9
75.0%	quartile	-0.9
50.0%	median	-0.9
25.0%	quartile	-0.9
10.0%		-0.9
2.5%		-0.9
0.5%		-0.9
0.0%	minimum	-0.9

Summary Statistics

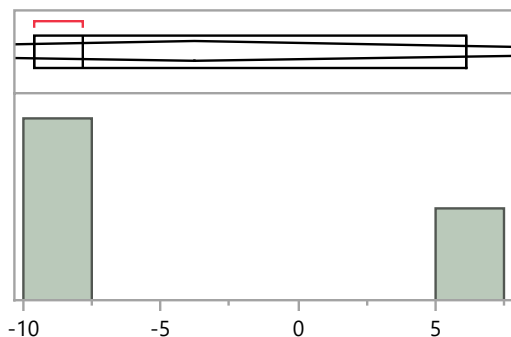
Mean	-0.9
Std Dev	.
Std Err Mean	.
Upper 95% Mean	.
Lower 95% Mean	.
N	1.0

Distributions Analyte_Method=Strontium-90 Other**Bias****Quantiles**

100.0%	maximum	-2.6
99.5%		-2.6
97.5%		-2.6
90.0%		-2.6
75.0%	quartile	-3.0
50.0%	median	-6.5
25.0%	quartile	-32.3
10.0%		-40.2
2.5%		-40.2
0.5%		-40.2
0.0%	minimum	-40.2

Summary Statistics

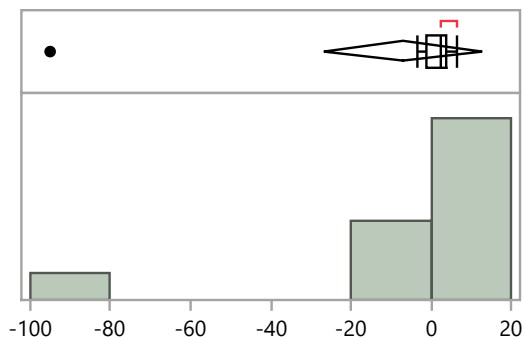
Mean	-14.0
Std Dev	17.7
Std Err Mean	8.8
Upper 95% Mean	14.2
Lower 95% Mean	-42.1
N	4.0

RdF53 Distribution by Preparation Method**Distributions Analyte_Method=Strontium-90 Total dissolution by fusion****Bias****Quantiles**

100.0%	maximum	6.1
99.5%		6.1
97.5%		6.1
90.0%		6.1
75.0%	quartile	6.1
50.0%	median	-7.8
25.0%	quartile	-9.6
10.0%		-9.6
2.5%		-9.6
0.5%		-9.6
0.0%	minimum	-9.6

Summary Statistics

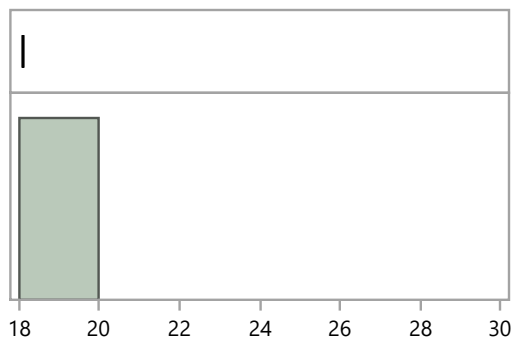
Mean	-3.8
Std Dev	8.6
Std Err Mean	5.0
Upper 95% Mean	17.6
Lower 95% Mean	-25.1
N	3.0

Distributions Analyte_Method=Uranium-234 Acid dissolution with hydrofluoric acid**Bias****Quantiles**

100.0%	maximum	6.3
99.5%		6.3
97.5%		6.3
90.0%		6.1
75.0%	quartile	3.9
50.0%	median	2.4
25.0%	quartile	-1.3
10.0%		-76.6
2.5%		-95.0
0.5%		-95.0
0.0%	minimum	-95.0

Summary Statistics

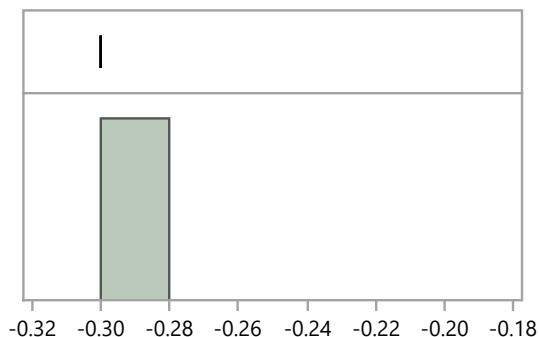
Mean	-6.8
Std Dev	29.4
Std Err Mean	8.9
Upper 95% Mean	12.9
Lower 95% Mean	-26.6
N	11.0

Distributions Analyte_Method=Uranium-234 Acid leaching without hydrofluoric acid**Bias****Quantiles**

100.0%	maximum	18.1
99.5%		18.1
97.5%		18.1
90.0%		18.1
75.0%	quartile	18.1
50.0%	median	18.1
25.0%	quartile	18.1
10.0%		18.1
2.5%		18.1
0.5%		18.1
0.0%	minimum	18.1

Summary Statistics

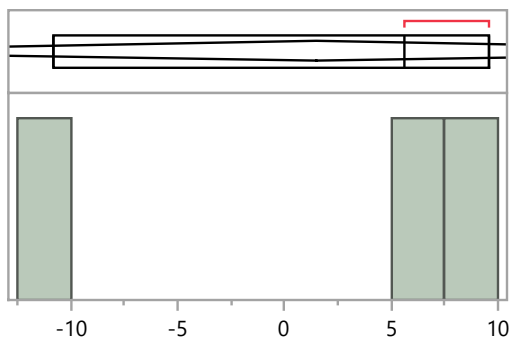
Mean	18.1
Std Dev	.
Std Err Mean	.
Upper 95% Mean	.
Lower 95% Mean	.
N	1.0

RdF53 Distribution by Preparation Method**Distributions Analyte_Method=Uranium-234 Coprecipitation, acidified****Bias****Quantiles**

100.0%	maximum	-0.3
99.5%		-0.3
97.5%		-0.3
90.0%		-0.3
75.0%	quartile	-0.3
50.0%	median	-0.3
25.0%	quartile	-0.3
10.0%		-0.3
2.5%		-0.3
0.5%		-0.3
0.0%	minimum	-0.3

Summary Statistics

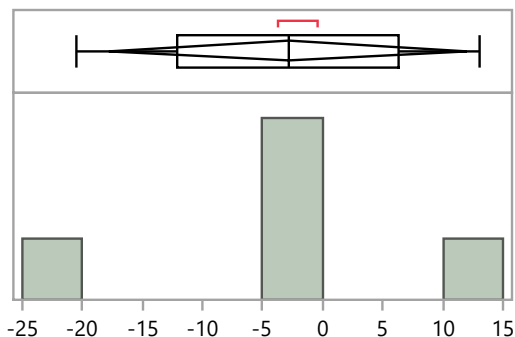
Mean	-0.3
Std Dev	.
Std Err Mean	.
Upper 95% Mean	.
Lower 95% Mean	.
N	1.0

Distributions Analyte_Method=Uranium-234 Other**Bias****Quantiles**

100.0%	maximum	9.6
99.5%		9.6
97.5%		9.6
90.0%		9.6
75.0%	quartile	9.6
50.0%	median	5.6
25.0%	quartile	-10.8
10.0%		-10.8
2.5%		-10.8
0.5%		-10.8
0.0%	minimum	-10.8

Summary Statistics

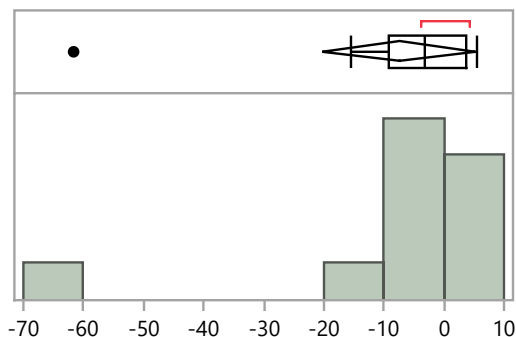
Mean	1.5
Std Dev	10.8
Std Err Mean	6.2
Upper 95% Mean	28.3
Lower 95% Mean	-25.4
N	3.0

Distributions Analyte_Method=Uranium-234 Total dissolution by fusion**Bias****Quantiles**

100.0%	maximum	13.1
99.5%		13.1
97.5%		13.1
90.0%		13.1
75.0%	quartile	6.3
50.0%	median	-2.9
25.0%	quartile	-12.1
10.0%		-20.5
2.5%		-20.5
0.5%		-20.5
0.0%	minimum	-20.5

Summary Statistics

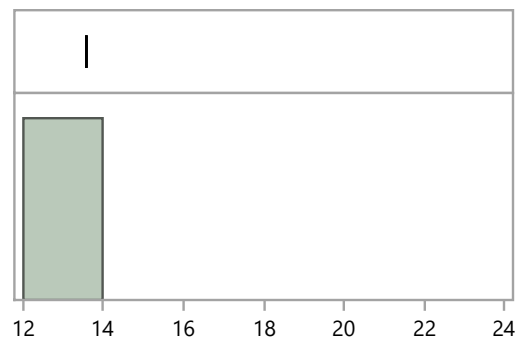
Mean	-2.9
Std Dev	12.0
Std Err Mean	5.3
Upper 95% Mean	12.0
Lower 95% Mean	-17.8
N	5.0

RdF53 Distribution by Preparation Method**Distributions Analyte_Method=Uranium-238 Acid dissolution with hydrofluoric acid****Bias****Quantiles**

100.0%	maximum	5.6
99.5%		5.6
97.5%		5.6
90.0%		5.3
75.0%	quartile	3.8
50.0%	median	-3.3
25.0%	quartile	-9.1
10.0%		-52.4
2.5%		-61.6
0.5%		-61.6
0.0%	minimum	-61.6

Summary Statistics

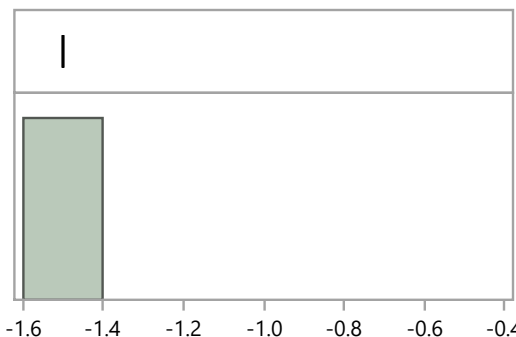
Mean	-7.6
Std Dev	19.0
Std Err Mean	5.7
Upper 95% Mean	5.2
Lower 95% Mean	-20.3
N	11.0

Distributions Analyte_Method=Uranium-238 Acid leaching without hydrofluoric acid**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	13.6
25.0%	quartile	13.6
10.0%		13.6
2.5%		13.6
0.5%		13.6
0.0%	minimum	13.6

Summary Statistics

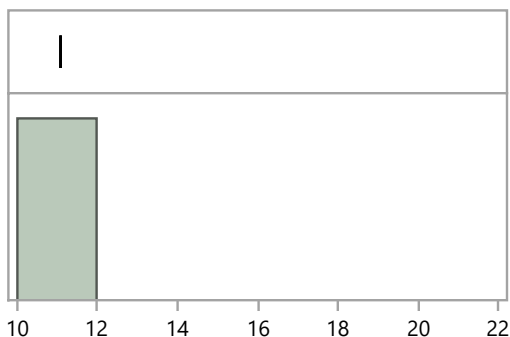
Mean	13.6
Std Dev	.
Std Err Mean	.
Upper 95% Mean	.
Lower 95% Mean	.
N	1.0

Distributions Analyte_Method=Uranium-238 Coprecipitation, acidified**Bias****Quantiles**

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

Summary Statistics

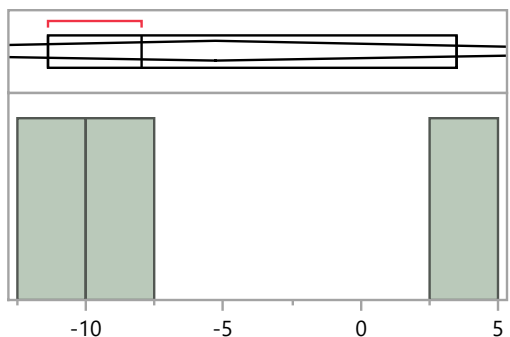
Mean	-1.5
Std Dev	.
Std Err Mean	.
Upper 95% Mean	.
Lower 95% Mean	.
N	1.0

RdF53 Distribution by Preparation Method**Distributions Analyte_Method=Uranium-238 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

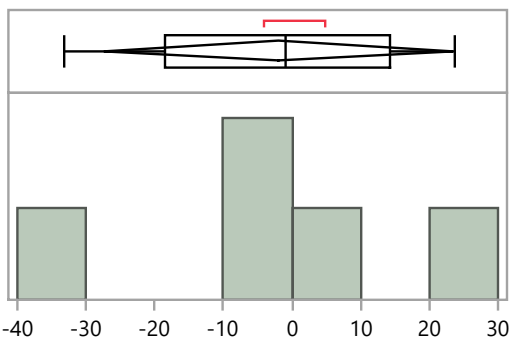
Mean	11.1
Std Dev	.
Std Err Mean	.
Upper 95% Mean	.
Lower 95% Mean	.
N	1.0

Distributions Analyte_Method=Uranium-238 Other**Bias****Quantiles**

100.0%	maximum	3.5
99.5%		3.5
97.5%		3.5
90.0%		3.5
75.0%	quartile	3.5
50.0%	median	-8.0
25.0%	quartile	-11.4
10.0%		-11.4
2.5%		-11.4
0.5%		-11.4
0.0%	minimum	-11.4

Summary Statistics

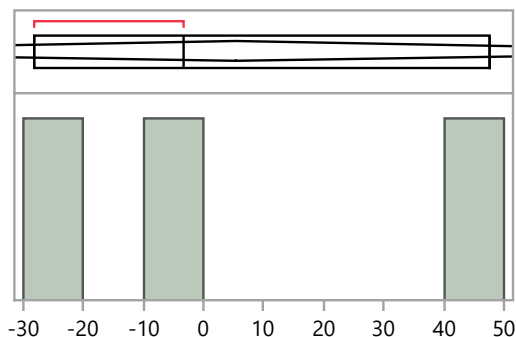
Mean	-5.3
Std Dev	7.8
Std Err Mean	4.5
Upper 95% Mean	14.1
Lower 95% Mean	-24.7
N	3.0

Distributions Analyte_Method=Uranium-238 Total dissolution by fusion**Bias****Quantiles**

100.0%	maximum	23.7
99.5%		23.7
97.5%		23.7
90.0%		23.7
75.0%	quartile	14.3
50.0%	median	-1.0
25.0%	quartile	-18.6
10.0%		-33.1
2.5%		-33.1
0.5%		-33.1
0.0%	minimum	-33.1

Summary Statistics

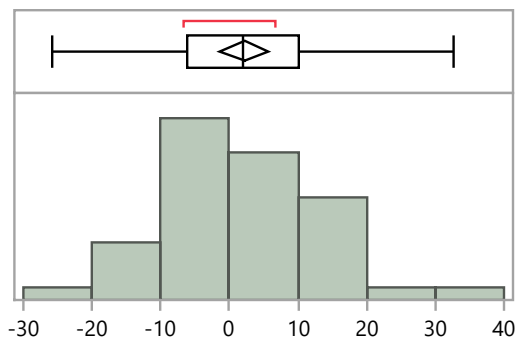
Mean	-1.9
Std Dev	20.5
Std Err Mean	9.2
Upper 95% Mean	23.5
Lower 95% Mean	-27.4
N	5.0

RdF53 Distribution by Preparation Method**Distributions Analyte_Method=Zinc-65 EPA 901.1, Gamma Emitting, 600/4-80-032****Bias****Quantiles**

100.0%	maximum	47.7
99.5%		47.7
97.5%		47.7
90.0%		47.7
75.0%	quartile	47.7
50.0%	median	-3.3
25.0%	quartile	-28.1
10.0%		-28.1
2.5%		-28.1
0.5%		-28.1
0.0%	minimum	-28.1

Summary Statistics

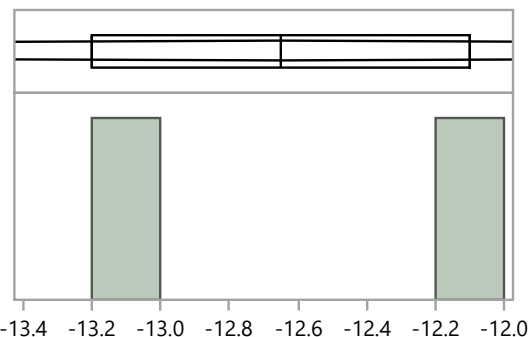
Mean	5.4
Std Dev	38.6
Std Err Mean	22.3
Upper 95% Mean	101.4
Lower 95% Mean	-90.6
N	3.0

Distributions Analyte_Method=Zinc-65 No preparation - analyzed as received**Bias****Quantiles**

100.0%	maximum	32.5
99.5%		32.5
97.5%		30.7
90.0%		17.3
75.0%	quartile	10.1
50.0%	median	2.0
25.0%	quartile	-6.1
10.0%		-12.8
2.5%		-24.3
0.5%		-25.8
0.0%	minimum	-25.8

Summary Statistics

Mean	2.2
Std Dev	11.8
Std Err Mean	1.7
Upper 95% Mean	5.7
Lower 95% Mean	-1.3
N	46.0

Distributions Analyte_Method=Zinc-65 Other**Bias****Quantiles**

100.0%	maximum	-12.1
99.5%		-12.1
97.5%		-12.1
90.0%		-12.1
75.0%	quartile	-12.1
50.0%	median	-12.7
25.0%	quartile	-13.2
10.0%		-13.2
2.5%		-13.2
0.5%		-13.2
0.0%	minimum	-13.2

Summary Statistics

Mean	-12.7
Std Dev	0.8
Std Err Mean	0.5
Upper 95% Mean	-5.7
Lower 95% Mean	-19.6
N	2.0