

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.

RdV54 Participating Laboratories

Lab Code	Lab Name	Matrix Code
ADEM01	Alabama Department of Environmental Management	RdV
ADFC99	Abu Dhabi Quality and Conformity Council-Central Testing Lab	RdV
AMEC99	Amentum Clean Energy Ltd	RdV
ARSL01	ARS	RdV
BSCE99	Supreme Council for Environment	RdV
CMRC01	Carlsbad Environmental Monitoring and Research Center	RdV
CSSL99	Chemistry Support Services	RdV
ERCL01	Washington State Public Health Laboratories	RdV
ERHD99	National Monitoring Section, Radiation Protection Bureau, Health Canada	RdV
FANR79	Federal Authority for Nuclear Regulation, Environmental Laboratory	RdV
FDHE01	Florida Dept of Health Environmental Laboratory	RdV
FDOH01	Florida Dept. of Health, Mobile Environmental Radiological Lab	RdV
GENE01	GEL Laboratories, LLC	RdV
GPCL01	Georgia Power Company Environmental Laboratory	RdV
HECR01	SC Department of Environmental Services	RdV
HPAC99	UKHSA, RCE Glasgow	RdV
IAEA20	IAEA Marine Environment Laboratories, Radiometrics Laboratory	RdV
IDOH01	Indiana Department of Health	RdV
HEMA01	Illinois Emergency Management Agency Radiochemistry Laboratory	RdV
ISUE01	ISU Environmental Monitoring Laboratory	RdV
JAEC99	Research Laboratories and Information Directorate	RdV
JNRC99	Energy and Mineral Regulatory Commission	RdV
LOCK03	Advanced Test Reactor (ATR) Complex Radioanalytical Laboratory	RdV
MDPH01	MDPH-Division of Radiation Control	RdV
NARL01	National Analytical Radiation Environmental Laboratory	RdV
NJDH01	New Jersey Dept. of Health, ECLS	RdV
NOCS99	National Oceanography Centre, Southampton	RdV
ODHL01	Ohio Department of Health Laboratory	RdV
RPSC01	Radiation Protection Service	RdV
SANC99	RadioAnalysis, South Africa Nuclear Energy Corp.	RdV
SEML01	SRS Environmental Monitoring Laboratory	RdV
SOUT01	Southwest Research Institute	RdV
SRPD01	Sandia National Laboratories, Radiation Protection Sample Diagnostics	RdV
TDHL01	Texas Department of State Health Services Laboratory	RdV
TELE01	Teledyne Brown Engineering - Environmental Services	RdV
TELE02	Microbac Laboratories Inc. - Northbrook	RdV
TMAO01	EBERLINE Analytical Corporation	RdV
WIPH01	WI, DPH, Radiation Protection Section	RdV
WSHL01	Wisconsin State Laboratory of Hygiene	RdV

Laboratories Not Reporting

Lab Code	Lab Name	Matrix Code
ASUK99	AWE (Aldermaston)	RdV
IAEA59	IAEA-Equipment Radiation Monitoring Laboratory	RdV
IAEA99	International Atomic Energy Agency	RdV
NSPH01	Nevada State Public Health Laboratory	RdV
UNTE01	UniTech-235	RdV

Study Reference Values

MAPEP-26-RdV54

Radiological Reference Date: 02/01/2026

Analyte	Ref Value	Ref Unc	Units
Inorganic			
Uranium-235	0.054	0.003	(ug/sample)
Uranium-238	7.4	0.3	(ug/sample)
Uranium-Total	7.5	0.3	(ug/sample)

Analyte	Ref Value	Ref Unc	Units
Radiological			
Americium-241	0.093	0.002	(Bq/sample)
Cesium-134	7.62	0.08	(Bq/sample)
Cobalt-57	5.59	0.11	(Bq/sample)
Cobalt-60	6.55	0.13	(Bq/sample)
Manganese-54	2.78	0.06	(Bq/sample)
Plutonium-238	0.0932	0.0018	(Bq/sample)
Plutonium-239/240	0.094	0.002	(Bq/sample)
Strontium-90	1.06	0.02	(Bq/sample)
Uranium-234	0.089	0.004	(Bq/sample)
Uranium-238	0.093	0.004	(Bq/sample)
Zinc-65	7.40	0.15	(Bq/sample)

Sample Statistical Summary

MAPEP-26-RdV54

Radiological Reference Date: 02/01/2026

Analyte	T(1)	A(2)	Grand(3) Mean	Std Dev	Ref Value	Ref Unc	Acceptance Range	Units
Inorganic								
Uranium-235	4	4			0.054	0.003	0.038 - 0.070	(ug/sample)
Uranium-238	4	4			7.4	0.3	5.2 - 9.6	(ug/sample)
Uranium-Total	3	3			7.5	0.3	5.3 - 9.8	(ug/sample)

Analyte	T(1)	A(2)	Grand(3) Mean	Std Dev	Ref Value	Ref Unc	Acceptance Range	Units
Radiological								
Americium-241	20	14	0.086	0.007	0.093	0.002	0.065 - 0.121	(Bq/sample)
Cesium-134	39	37	7.27	1.03	7.62	0.08	5.33 - 9.91	(Bq/sample)
Cesium-137	31	28					False Positive Test	(Bq/sample)
Cobalt-57	39	37	5.54	0.69	5.59	0.11	3.91 - 7.27	(Bq/sample)
Cobalt-60	39	37	6.37	0.68	6.55	0.13	4.59 - 8.52	(Bq/sample)
Manganese-54	39	36	2.77	0.30	2.78	0.06	1.95 - 3.61	(Bq/sample)
Plutonium-238	13	12	0.0932	0.0097	0.0932	0.0018	0.0652 - 0.1212	(Bq/sample)
Plutonium-239/240	13	11	0.088	0.005	0.094	0.002	0.066 - 0.122	(Bq/sample)
Strontium-90	16	13	1.10	0.12	1.06	0.02	0.74 - 1.38	(Bq/sample)
Uranium-234	14	11	0.089	0.005	0.089	0.004	0.062 - 0.116	(Bq/sample)
Uranium-238	15	11	0.094	0.008	0.093	0.004	0.065 - 0.121	(Bq/sample)
Zinc-65	39	37	7.53	0.94	7.40	0.15	5.18 - 9.62	(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, from large vegetation sample size and values indicated as "Not Acceptable".
(4) Uranium Reference values shown for small vegetation sample size only.

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-26-RdV54

Inorganic				
Analyte	A	W	RW	N
Uranium-Total	3			
Uranium-235	4			
Uranium-238	4			
Radiological				
Analyte	A	W	RW	N
Americium-241	13	1		6
Cesium-134	29	8		2
Cesium-137	28			6
Cobalt-57	33	4		2
Cobalt-60	35	2		2
Manganese-54	35	1		3
Plutonium-238	11	1		1
Plutonium-239/240	11			2
Strontium-90	12	1		3
Uranium-234	11			3
Uranium-238	11			4
Zinc-65	33	4		2



Laboratory Results For MAPEP-26-RdV54

(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	0.054				0.038 - 0.070	
Uranium-238	NR	7.4				5.2 - 9.6	
Uranium-Total	NR	7.5				5.3 - 9.8	

Radiological						Units: (Bq/sample)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Unc Flag
Americium-241	NR	0.093				0.065 - 0.121	
Cesium-134	7.1040	7.62	A		-6.8	5.33 - 9.91	0.3027 A
Cesium-137	NR		N	(11)		False Positive Test	
Cobalt-57	5.2170	5.59	A		-6.7	3.91 - 7.27	0.2997 A
Cobalt-60	6.5120	6.55	A		-0.6	4.59 - 8.52	0.2150 A
Manganese-54	2.8490	2.78	A		2.5	1.95 - 3.61	0.1894 A
Plutonium-238	NR	0.0932				0.0652 - 0.1212	
Plutonium-239/240	NR	0.094				0.066 - 0.122	
Strontium-90	NR	1.06				0.74 - 1.38	
Uranium-234	NR	0.089				0.062 - 0.116	
Uranium-238	NR	0.093				0.065 - 0.121	
Zinc-65	7.6220	7.40	A		3.0	5.18 - 9.62	0.4588 A

Radiological Reference Date: February 1, 2026

Results Flags:

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

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

Notes:

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(29) = Statistically significant negative value at 3 standard deviations



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

Laboratory Results For MAPEP-26-RdV54

(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	0.054				0.038 - 0.070	
Uranium-238	NR	7.4				5.2 - 9.6	
Uranium-Total	NR	7.5				5.3 - 9.8	

Radiological						Units: (Bq/sample)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Flag
Americium-241	NR	0.093				0.065 - 0.121	
Cesium-134	8.10	7.62	A		6.3	5.33 - 9.91	0.67 A
Cesium-137	NR		N	(11)		False Positive Test	
Cobalt-57	5.66	5.59	A		1.3	3.91 - 7.27	0.94 W
Cobalt-60	6.67	6.55	A		1.8	4.59 - 8.52	0.41 A
Manganese-54	2.82	2.78	A		1.4	1.95 - 3.61	0.34 A
Plutonium-238	NR	0.0932				0.0652 - 0.1212	
Plutonium-239/240	NR	0.094				0.066 - 0.122	
Strontium-90	NR	1.06				0.74 - 1.38	
Uranium-234	NR	0.089				0.062 - 0.116	
Uranium-238	NR	0.093				0.065 - 0.121	
Zinc-65	9.38	7.40	W		26.8	5.18 - 9.62	0.72 A

Radiological Reference Date: February 1, 2026

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

Laboratory Results For MAPEP-26-RdV54

(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 Unc Flag
Uranium-235	NR	0.054				0.038 - 0.070	
Uranium-238	NR	7.4				5.2 - 9.6	
Uranium-Total	NR	7.5				5.3 - 9.8	

Radiological						Units: (Bq/sample)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Unc Flag
Americium-241	NR	0.093				0.065 - 0.121	
Cesium-134	8.60	7.62	A		12.9	5.33 - 9.91	0.42 A
Cesium-137	0.028		A			False Positive Test	0.031
Cobalt-57	7.01	5.59	W		25.4	3.91 - 7.27	0.40 A
Cobalt-60	7.83	6.55	A		19.5	4.59 - 8.52	0.38 A
Manganese-54	3.29	2.78	A		18.3	1.95 - 3.61	0.18 A
Plutonium-238	NR	0.0932				0.0652 - 0.1212	
Plutonium-239/240	NR	0.094				0.066 - 0.122	
Strontium-90	NR	1.06				0.74 - 1.38	
Uranium-234	NR	0.089				0.062 - 0.116	
Uranium-238	NR	0.093				0.065 - 0.121	
Zinc-65	9.57	7.40	W		29.3	5.18 - 9.62	0.50 A

Radiological Reference Date: February 1, 2026

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Mixed Analyte Performance Evaluation Program

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

Laboratory Results For MAPEP-26-RdV54

(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	0.054				0.038 - 0.070	
Uranium-238	NR	7.4				5.2 - 9.6	
Uranium-Total	NR	7.5				5.3 - 9.8	

Radiological						Units: (Bq/sample)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Unc Flag
Americium-241	0.125	0.093	N		34.4	0.065 - 0.121	0.035 W
Cesium-134	7.046	7.62	A		-7.5	5.33 - 9.91	0.24 A
Cesium-137	-0.063		A			False Positive Test	0.056
Cobalt-57	6.243	5.59	A		11.7	3.91 - 7.27	0.244 A
Cobalt-60	6.818	6.55	A		4.1	4.59 - 8.52	0.146 A
Manganese-54	2.898	2.78	A		4.2	1.95 - 3.61	0.126 A
Plutonium-238	NR	0.0932				0.0652 - 0.1212	
Plutonium-239/240	NR	0.094				0.066 - 0.122	
Strontium-90	NR	1.06				0.74 - 1.38	
Uranium-234	NR	0.089				0.062 - 0.116	
Uranium-238	NR	0.093				0.065 - 0.121	
Zinc-65	7.939	7.40	A		7.3	5.18 - 9.62	0.303 A

Radiological Reference Date: February 1, 2026

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Laboratory Results For MAPEP-26-RdV54
(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	0.054				0.038 - 0.070	
Uranium-238	NR	7.4				5.2 - 9.6	
Uranium-Total	NR	7.5				5.3 - 9.8	

Radiological						Units: (Bq/sample)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Flag
Americium-241	0.068	0.093	W		-26.9	0.065 - 0.121	0.015 W
Cesium-134	6.336	7.62	A		-16.9	5.33 - 9.91	0.339 A
Cesium-137	NR					False Positive Test	
Cobalt-57	4.781	5.59	A		-14.5	3.91 - 7.27	0.454 A
Cobalt-60	5.437	6.55	A		-17.0	4.59 - 8.52	0.309 A
Manganese-54	2.402	2.78	A		-13.6	1.95 - 3.61	0.206 A
Plutonium-238	NR	0.0932				0.0652 - 0.1212	
Plutonium-239/240	NR	0.094				0.066 - 0.122	
Strontium-90	NR	1.06				0.74 - 1.38	
Uranium-234	NR	0.089				0.062 - 0.116	
Uranium-238	NR	0.093				0.065 - 0.121	
Zinc-65	6.589	7.40	A		-11.0	5.18 - 9.62	0.472 A

Radiological Reference Date: February 1, 2026

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Laboratory Results For MAPEP-26-RdV54

(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	Unc Flag
Uranium-235	NR	0.054				0.038 - 0.070		
Uranium-238	NR	7.4				5.2 - 9.6		
Uranium-Total	NR	7.5				5.3 - 9.8		

Radiological					Units: (Bq/sample)			
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	8.52E-02	0.093	A		-8.4	0.065 - 0.121	3.43E-03	A
Cesium-134	5.65E+00	7.62	W		-25.9	5.33 - 9.91	1.07E-01	N
Cesium-137	2.77E-05		A			False Positive Test	2.31E-02	
Cobalt-57	4.78E+00	5.59	A		-14.5	3.91 - 7.27	7.40E-02	N
Cobalt-60	5.50E+00	6.55	A		-16.0	4.59 - 8.52	9.46E-02	N
Manganese-54	2.35E+00	2.78	A		-15.5	1.95 - 3.61	6.37E-02	A
Plutonium-238	1.85E-01	0.0932	N		98.5	0.0652 - 0.1212	4.00E-01	N
Plutonium-239/240	1.27E-01	0.094	N		35.1	0.066 - 0.122	6.18E-03	A
Strontium-90	9.58E-01	1.06	A		-9.6	0.74 - 1.38	1.20E-02	N
Uranium-234	-1.39E-01	0.089	N		-256.2	0.062 - 0.116	2.66E-01	N
Uranium-238	-1.16E-01	0.093	N		-224.7	0.065 - 0.121	2.44E-01	N
Zinc-65	6.95E+00	7.40	A		-6.1	5.18 - 9.62	1.60E-01	A

Radiological Reference Date: February 1, 2026

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

Laboratory Results For MAPEP-26-RdV54

(CSSL99) Chemistry Support Services

Dounreay

Thurso, Caithness KW14 7TZ

Inorganic						Units: (ug/sample)		
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Uranium-235	NR	0.054				0.038 - 0.070		
Uranium-238	NR	7.4				5.2 - 9.6		
Uranium-Total	NR	7.5				5.3 - 9.8		

Radiological					Units: (Bq/sample)			
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	0.080716	0.093	A		-13.2	0.065 - 0.121	0.002356	A
Cesium-134	7.622	7.62	A		0.0	5.33 - 9.91	1.3232	W
Cesium-137	0.1951		N	(1)		False Positive Test	0.033869	
Cobalt-57	6.519	5.59	A		16.6	3.91 - 7.27	1.1317	W
Cobalt-60	6.227	6.55	A		-4.9	4.59 - 8.52	1.0810	W
Manganese-54	2.48	2.78	A		-10.8	1.95 - 3.61	0.43053	W
Plutonium-238	0.0903103	0.0932	A		-3.1	0.0652 - 0.1212	0.002781	A
Plutonium-239/240	0.0871046	0.094	A		-7.3	0.066 - 0.122	0.002630	A
Strontium-90	1.24	1.06	A		17.0	0.74 - 1.38	0.157	A
Uranium-234	NR	0.089				0.062 - 0.116		
Uranium-238	NR	0.093				0.065 - 0.121		
Zinc-65	6.36	7.40	A		-14.1	5.18 - 9.62	1.1041	W

Radiological Reference Date: February 1, 2026

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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

(29) = Statistically significant negative value at 3 standard deviations



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

Laboratory Results For MAPEP-26-RdV54

(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	0.0520	0.054	A		-3.7	0.038 - 0.070	0.0071	A
Uranium-238	7.1	7.4	A		-4.1	5.2 - 9.6	1.0	A
Uranium-Total	7.2	7.5	A		-4.0	5.3 - 9.8	1.0	A

Radiological						Units: (Bq/sample)		
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	0.0918	0.093	A		-1.3	0.065 - 0.121	0.0074	A
Cesium-134	7.50	7.62	A		-1.6	5.33 - 9.91	0.31	A
Cesium-137	-0.08		A			False Positive Test	0.18	
Cobalt-57	6.06	5.59	A		8.4	3.91 - 7.27	0.25	A
Cobalt-60	7.08	6.55	A		8.1	4.59 - 8.52	0.32	A
Manganese-54	3.42	2.78	W		23.0	1.95 - 3.61	0.38	A
Plutonium-238	0.096	0.0932	A		3.0	0.0652 - 0.1212	0.012	A
Plutonium-239/240	0.0821	0.094	A		-12.7	0.066 - 0.122	0.0098	A
Strontium-90	1.27	1.06	A		19.8	0.74 - 1.38	0.05	A
Uranium-234	0.087	0.089	A		-2.2	0.062 - 0.116	0.011	A
Uranium-238	0.110	0.093	A		18.3	0.065 - 0.121	0.012	A
Zinc-65	9.30	7.40	W		25.7	5.18 - 9.62	0.95	A

Radiological Reference Date: February 1, 2026

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% $\leq$ RP $\leq$ 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

(29) = Statistically significant negative value at 3 standard deviations



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

Laboratory Results For MAPEP-26-RdV54

(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	0.058	0.054	A		7.4	0.038 - 0.070	0.01 W
Uranium-238	8.057	7.4	A		8.9	5.2 - 9.6	0.1 N
Uranium-Total	NR	7.5				5.3 - 9.8	

Radiological						Units: (Bq/sample)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Flag
Americium-241	0.0803	0.093	A		-13.7	0.065 - 0.121	0.0043 A
Cesium-134	8.13	7.62	A		6.7	5.33 - 9.91	0.40 A
Cesium-137	0.10		A			False Positive Test	0.20
Cobalt-57	5.78	5.59	A		3.4	3.91 - 7.27	0.28 A
Cobalt-60	6.88	6.55	A		5.0	4.59 - 8.52	0.34 A
Manganese-54	2.93	2.78	A		5.4	1.95 - 3.61	0.57 W
Plutonium-238	0.0879	0.0932	A		-5.7	0.0652 - 0.1212	0.0021 A
Plutonium-239/240	0.0890	0.094	A		-5.3	0.066 - 0.122	0.0022 A
Strontium-90	1.17	1.06	A		10.4	0.74 - 1.38	0.03 A
Uranium-234	0.0871	0.089	A		-2.1	0.062 - 0.116	0.0025 A
Uranium-238	0.0880	0.093	A		-5.4	0.065 - 0.121	0.0025 A
Zinc-65	7.89	7.40	A		6.6	5.18 - 9.62	0.87 A

Radiological Reference Date: February 1, 2026

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% $\leq$ RP $\leq$ 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

(29) = Statistically significant negative value at 3 standard deviations



Laboratory Results For MAPEP-26-RdV54

(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	0.054				0.038 - 0.070	
Uranium-238	NR	7.4				5.2 - 9.6	
Uranium-Total	NR	7.5				5.3 - 9.8	

Radiological						Units: (Bq/sample)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Flag
Americium-241	-1.0	0.093	N		-1175.3	0.065 - 0.121	0.047 N
Cesium-134	3.60	7.62	N		-52.8	5.33 - 9.91	0.28 A
Cesium-137	-1.005		N	(29)		False Positive Test	0.013
Cobalt-57	5.05	5.59	A		-9.7	3.91 - 7.27	0.28 A
Cobalt-60	6.08	6.55	A		-7.2	4.59 - 8.52	0.15 A
Manganese-54	3.72	2.78	N		33.8	1.95 - 3.61	0.12 A
Plutonium-238	NR	0.0932				0.0652 - 0.1212	
Plutonium-239/240	NR	0.094				0.066 - 0.122	
Strontium-90	NR	1.06				0.74 - 1.38	
Uranium-234	NR	0.089				0.062 - 0.116	
Uranium-238	NR	0.093				0.065 - 0.121	
Zinc-65	7.08	7.40	A		-4.3	5.18 - 9.62	0.20 A

Radiological Reference Date: February 1, 2026

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

(29) = Statistically significant negative value at 3 standard deviations



Laboratory Results For MAPEP-26-RdV54

(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	0.054				0.038 - 0.070	
Uranium-238	NR	7.4				5.2 - 9.6	
Uranium-Total	NR	7.5				5.3 - 9.8	

Radiological						Units: (Bq/sample)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Flag
Americium-241	0.126	0.093	N		35.5	0.065 - 0.121	0.04 N
Cesium-134	7.7	7.62	A		1.1	5.33 - 9.91	0.148 N
Cesium-137	0.04		A			False Positive Test	0.031
Cobalt-57	6.19	5.59	A		10.7	3.91 - 7.27	0.193 A
Cobalt-60	6.37	6.55	A		-2.7	4.59 - 8.52	0.129 A
Manganese-54	2.83	2.78	A		1.8	1.95 - 3.61	0.096 A
Plutonium-238	0.117	0.0932	W		25.5	0.0652 - 0.1212	0.04 N
Plutonium-239/240	0.093	0.094	A		-1.1	0.066 - 0.122	0.04 N
Strontium-90	1.15	1.06	A		8.5	0.74 - 1.38	0.2 W
Uranium-234	0.206	0.089	N		131.5	0.062 - 0.116	0.04 W
Uranium-238	0.20	0.093	N		115.1	0.065 - 0.121	0.04 W
Zinc-65	7.715	7.40	A		4.3	5.18 - 9.62	0.244 A

Radiological Reference Date: February 1, 2026

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

(29) = Statistically significant negative value at 3 standard deviations



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

Laboratory Results For MAPEP-26-RdV54

(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 Flag
Uranium-235	NR	0.054				0.038 - 0.070	
Uranium-238	NR	7.4				5.2 - 9.6	
Uranium-Total	NR	7.5				5.3 - 9.8	

Radiological						Units: (Bq/sample)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Flag
Americium-241	0.131	0.093	N		40.9	0.065 - 0.121	0.04 N
Cesium-134	7.606	7.62	A		-0.2	5.33 - 9.91	0.154 A
Cesium-137	0.05		A			False Positive Test	0.124
Cobalt-57	6.159	5.59	A		10.2	3.91 - 7.27	0.183 A
Cobalt-60	6.455	6.55	A		-1.5	4.59 - 8.52	0.107 N
Manganese-54	2.8	2.78	A		0.7	1.95 - 3.61	0.141 A
Plutonium-238	NR	0.0932				0.0652 - 0.1212	
Plutonium-239/240	NR	0.094				0.066 - 0.122	
Strontium-90	NR	1.06				0.74 - 1.38	
Uranium-234	NR	0.089				0.062 - 0.116	
Uranium-238	0.212	0.093	N		128.0	0.065 - 0.121	0.631 N
Zinc-65	7.803	7.40	A		5.4	5.18 - 9.62	0.357 A

Radiological Reference Date: February 1, 2026

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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(11) = False Positive Test, Result Not Reported

(29) = Statistically significant negative value at 3 standard deviations



Mixed Analyte Performance Evaluation Program

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

Laboratory Results For MAPEP-26-RdV54

(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	NR	0.054				0.038 - 0.070	
Uranium-238	NR	7.4				5.2 - 9.6	
Uranium-Total	NR	7.5				5.3 - 9.8	

Radiological						Units: (Bq/sample)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Unc Flag
Americium-241	0.0876	0.093	A		-5.8	0.065 - 0.121	0.00578 A
Cesium-134	7.63	7.62	A		0.1	5.33 - 9.91	0.383 A
Cesium-137	0.0234		A			False Positive Test	0.0273
Cobalt-57	6.37	5.59	A		14.0	3.91 - 7.27	0.331 A
Cobalt-60	7.18	6.55	A		9.6	4.59 - 8.52	0.326 A
Manganese-54	3.15	2.78	A		13.3	1.95 - 3.61	0.181 A
Plutonium-238	0.0897	0.0932	A		-3.8	0.0652 - 0.1212	0.00407 A
Plutonium-239/240	0.0902	0.094	A		-4.0	0.066 - 0.122	0.00410 A
Strontium-90	0.727	1.06	N		-31.4	0.74 - 1.38	0.0320 A
Uranium-234	0.0982	0.089	A		10.3	0.062 - 0.116	0.00510 A
Uranium-238	0.0996	0.093	A		7.1	0.065 - 0.121	0.00514 A
Zinc-65	8.76	7.40	A		18.4	5.18 - 9.62	0.466 A

Radiological Reference Date: February 1, 2026

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

(29) = Statistically significant negative value at 3 standard deviations



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

Laboratory Results For MAPEP-26-RdV54

(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	0.054				0.038 - 0.070	
Uranium-238	NR	7.4				5.2 - 9.6	
Uranium-Total	NR	7.5				5.3 - 9.8	

Radiological						Units: (Bq/sample)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Unc Flag
Americium-241	NR	0.093				0.065 - 0.121	
Cesium-134	7.52	7.62	A		-1.3	5.33 - 9.91	0.5 A
Cesium-137	-0.02		A			False Positive Test	0.18
Cobalt-57	5.95	5.59	A		6.4	3.91 - 7.27	0.44 A
Cobalt-60	6.32	6.55	A		-3.5	4.59 - 8.52	0.46 A
Manganese-54	2.85	2.78	A		2.5	1.95 - 3.61	0.31 A
Plutonium-238	NR	0.0932				0.0652 - 0.1212	
Plutonium-239/240	NR	0.094				0.066 - 0.122	
Strontium-90	NR	1.06				0.74 - 1.38	
Uranium-234	NR	0.089				0.062 - 0.116	
Uranium-238	NR	0.093				0.065 - 0.121	
Zinc-65	7.73	7.40	A		4.5	5.18 - 9.62	0.80 A

Radiological Reference Date: February 1, 2026

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% $\leq$ RP $\leq$ 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

(29) = Statistically significant negative value at 3 standard deviations



Laboratory Results For MAPEP-26-RdV54
(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	0.054				0.038 - 0.070	
Uranium-238	NR	7.4				5.2 - 9.6	
Uranium-Total	NR	7.5				5.3 - 9.8	

Radiological						Units: (Bq/sample)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Unc Flag
Americium-241	NR	0.093				0.065 - 0.121	
Cesium-134	6.149	7.62	A		-19.3	5.33 - 9.91	0.3973 A
Cesium-137	0.1591		A			False Positive Test	0.3377
Cobalt-57	4.318	5.59	W		-22.8	3.91 - 7.27	0.4322 A
Cobalt-60	4.815	6.55	W		-26.5	4.59 - 8.52	0.4185 A
Manganese-54	2.347	2.78	A		-15.6	1.95 - 3.61	0.3736 W
Plutonium-238	NR	0.0932				0.0652 - 0.1212	
Plutonium-239/240	NR	0.094				0.066 - 0.122	
Strontium-90	NR	1.06				0.74 - 1.38	
Uranium-234	NR	0.089				0.062 - 0.116	
Uranium-238	NR	0.093				0.065 - 0.121	
Zinc-65	6.747	7.40	A		-8.8	5.18 - 9.62	1.410 W

Radiological Reference Date: February 1, 2026

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% $\leq$ RP $\leq$ 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

(29) = Statistically significant negative value at 3 standard deviations



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

Laboratory Results For MAPEP-26-RdV54

(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 Unc Flag
Uranium-235	NR	0.054				0.038 - 0.070	
Uranium-238	NR	7.4				5.2 - 9.6	
Uranium-Total	NR	7.5				5.3 - 9.8	

Radiological						Units: (Bq/sample)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Unc Flag
Americium-241	NR	0.093				0.065 - 0.121	
Cesium-134	9.73	7.62	W		27.7	5.33 - 9.91	.45 A
Cesium-137	NR					False Positive Test	
Cobalt-57	5.37	5.59	A		-3.9	3.91 - 7.27	.26 A
Cobalt-60	6.72	6.55	A		2.6	4.59 - 8.52	.31 A
Manganese-54	2.78	2.78	A		0.0	1.95 - 3.61	0.15 A
Plutonium-238	NR	0.0932				0.0652 - 0.1212	
Plutonium-239/240	NR	0.094				0.066 - 0.122	
Strontium-90	1.292	1.06	W		21.9	0.74 - 1.38	.0751 A
Uranium-234	.0951	0.089	A		6.9	0.062 - 0.116	.0067 A
Uranium-238	.0862	0.093	A		-7.3	0.065 - 0.121	.0062 A
Zinc-65	7.62	7.40	A		3.0	5.18 - 9.62	.39 A

Radiological Reference Date: February 1, 2026

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

(29) = Statistically significant negative value at 3 standard deviations



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

Laboratory Results For MAPEP-26-RdV54

(IAEA20) IAEA Marine Environment Laboratories, Radiometrics Laboratory
4a, Quai Antoine 1er
Monaco, Monaco 98000

Inorganic						Units: (ug/sample)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Unc Flag
Uranium-235	NR	0.054				0.038 - 0.070	
Uranium-238	NR	7.4				5.2 - 9.6	
Uranium-Total	NR	7.5				5.3 - 9.8	

Radiological						Units: (Bq/sample)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Unc Flag
Americium-241	0.095	0.093	A		2.2	0.065 - 0.121	0.022 W
Cesium-134	7.54	7.62	A		-1.1	5.33 - 9.91	0.38 A
Cesium-137	-0.01		A			False Positive Test	0.5
Cobalt-57	5.52	5.59	A		-1.3	3.91 - 7.27	0.32 A
Cobalt-60	6.74	6.55	A		2.9	4.59 - 8.52	0.34 A
Manganese-54	2.80	2.78	A		0.7	1.95 - 3.61	0.15 A
Plutonium-238	NR	0.0932				0.0652 - 0.1212	
Plutonium-239/240	NR	0.094				0.066 - 0.122	
Strontium-90	NR	1.06				0.74 - 1.38	
Uranium-234	NR	0.089				0.062 - 0.116	
Uranium-238	NR	0.093				0.065 - 0.121	
Zinc-65	7.77	7.40	A		5.0	5.18 - 9.62	0.41 A

Radiological Reference Date: February 1, 2026

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% $\leq$ RP $\leq$ 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

(29) = Statistically significant negative value at 3 standard deviations



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

Laboratory Results For MAPEP-26-RdV54

(IDOH01) Indiana Department of Health

550 W 16th St

Indianapolis, IN 46202

Inorganic						Units: (ug/sample)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Flag
Uranium-235	NR	0.054				0.038 - 0.070	
Uranium-238	NR	7.4				5.2 - 9.6	
Uranium-Total	NR	7.5				5.3 - 9.8	

Radiological						Units: (Bq/sample)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Flag
Americium-241	NR	0.093				0.065 - 0.121	
Cesium-134	9.76	7.62	W		28.1	5.33 - 9.91	0.396 A
Cesium-137	NR					False Positive Test	
Cobalt-57	8.55	5.59	N		53.0	3.91 - 7.27	0.311 A
Cobalt-60	8.93	6.55	N		36.3	4.59 - 8.52	0.348 A
Manganese-54	4.03	2.78	N		45.0	1.95 - 3.61	0.318 A
Plutonium-238	NR	0.0932				0.0652 - 0.1212	
Plutonium-239/240	NR	0.094				0.066 - 0.122	
Strontium-90	NR	1.06				0.74 - 1.38	
Uranium-234	NR	0.089				0.062 - 0.116	
Uranium-238	NR	0.093				0.065 - 0.121	
Zinc-65	9.75	7.40	N		31.8	5.18 - 9.62	0.854 A

Radiological Reference Date: February 1, 2026

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% $\leq$ RP $\leq$ 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

(29) = Statistically significant negative value at 3 standard deviations



Laboratory Results For MAPEP-26-RdV54

(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 Unc Flag
Uranium-235	NR	0.054				0.038 - 0.070	
Uranium-238	NR	7.4				5.2 - 9.6	
Uranium-Total	NR	7.5				5.3 - 9.8	

Radiological						Units: (Bq/sample)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Unc Flag
Americium-241	0.08601	0.093	A		-7.5	0.065 - 0.121	0.003804 A
Cesium-134	6.35	7.62	A		-16.7	5.33 - 9.91	0.140 A
Cesium-137	0.093		A			False Positive Test	0.069
Cobalt-57	4.99	5.59	A		-10.7	3.91 - 7.27	0.072 N
Cobalt-60	6.04	6.55	A		-7.8	4.59 - 8.52	0.109 N
Manganese-54	2.45	2.78	A		-11.9	1.95 - 3.61	0.118 A
Plutonium-238	0.1004	0.0932	A		7.7	0.0652 - 0.1212	0.004199 A
Plutonium-239/240	0.0964	0.094	A		2.6	0.066 - 0.122	0.004067 A
Strontium-90	1.114	1.06	A		5.1	0.74 - 1.38	0.032 A
Uranium-234	0.08146	0.089	A		-8.5	0.062 - 0.116	0.00333 A
Uranium-238	0.09170	0.093	A		-1.4	0.065 - 0.121	0.00363 A
Zinc-65	6.53	7.40	A		-11.8	5.18 - 9.62	0.287 A

Radiological Reference Date: February 1, 2026

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

(29) = Statistically significant negative value at 3 standard deviations



Laboratory Results For MAPEP-26-RdV54
(ISUE01) ISU Environmental Monitoring Laboratory
785 5th 8th Ave Rm B107
Pocatello, ID 83209

Inorganic						Units: (ug/sample)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Unc Flag
Uranium-235	NR	0.054				0.038 - 0.070	
Uranium-238	NR	7.4				5.2 - 9.6	
Uranium-Total	NR	7.5				5.3 - 9.8	

Radiological						Units: (Bq/sample)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Unc Flag
Americium-241	NR	0.093				0.065 - 0.121	
Cesium-134	7.5	7.62	A		-1.6	5.33 - 9.91	0.1 N
Cesium-137	0.1		A			False Positive Test	0.4
Cobalt-57	5.7	5.59	A		2.0	3.91 - 7.27	0.2 A
Cobalt-60	7.0	6.55	A		6.9	4.59 - 8.52	0.1 N
Manganese-54	2.9	2.78	A		4.3	1.95 - 3.61	0.1 A
Plutonium-238	NR	0.0932				0.0652 - 0.1212	
Plutonium-239/240	NR	0.094				0.066 - 0.122	
Strontium-90	NR	1.06				0.74 - 1.38	
Uranium-234	NR	0.089				0.062 - 0.116	
Uranium-238	NR	0.093				0.065 - 0.121	
Zinc-65	7.9	7.40	A		6.8	5.18 - 9.62	0.3 A

Radiological Reference Date: February 1, 2026

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

(29) = Statistically significant negative value at 3 standard deviations



Laboratory Results For MAPEP-26-RdV54

(JAEC99) Research Laboratories and Information Directorate
Jordan Atomic Energy Commission
Amman, Jordan 70 (11934)

Inorganic						Units: (ug/sample)		
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Uranium-235	NR	0.054				0.038 - 0.070		
Uranium-238	NR	7.4				5.2 - 9.6		
Uranium-Total	NR	7.5				5.3 - 9.8		

Radiological					Units: (Bq/sample)			
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	NR	0.093				0.065 - 0.121		
Cesium-134	7.86	7.62	A		3.2	5.33 - 9.91	0.39	A
Cesium-137	NR					False Positive Test		
Cobalt-57	5.55	5.59	A		-0.7	3.91 - 7.27	0.24	A
Cobalt-60	7.02	6.55	A		7.2	4.59 - 8.52	0.33	A
Manganese-54	2.83	2.78	A		1.8	1.95 - 3.61	0.13	A
Plutonium-238	NR	0.0932				0.0652 - 0.1212		
Plutonium-239/240	NR	0.094				0.066 - 0.122		
Strontium-90	NR	1.06				0.74 - 1.38		
Uranium-234	0.09	0.089	A		1.1	0.062 - 0.116	0.007	A
Uranium-238	0.1	0.093	A		7.5	0.065 - 0.121	0.007	A
Zinc-65	8.06	7.40	A		8.9	5.18 - 9.62	0.37	A

Radiological Reference Date: February 1, 2026

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

(29) = Statistically significant negative value at 3 standard deviations



Laboratory Results For MAPEP-26-RdV54
(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 Unc Flag
Uranium-235	NR	0.054				0.038 - 0.070	
Uranium-238	NR	7.4				5.2 - 9.6	
Uranium-Total	NR	7.5				5.3 - 9.8	

Radiological						Units: (Bq/sample)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Unc Flag
Americium-241	NR	0.093				0.065 - 0.121	
Cesium-134	7.6	7.62	A		-0.3	5.33 - 9.91	0.2 A
Cesium-137	NR		N	(11)		False Positive Test	
Cobalt-57	6.2	5.59	A		10.9	3.91 - 7.27	0.2 A
Cobalt-60	6.95	6.55	A		6.1	4.59 - 8.52	0.2 A
Manganese-54	2.85	2.78	A		2.5	1.95 - 3.61	0.2 A
Plutonium-238	NR	0.0932				0.0652 - 0.1212	
Plutonium-239/240	NR	0.094				0.066 - 0.122	
Strontium-90	NR	1.06				0.74 - 1.38	
Uranium-234	NR	0.089				0.062 - 0.116	
Uranium-238	NR	0.093				0.065 - 0.121	
Zinc-65	8.01	7.40	A		8.2	5.18 - 9.62	0.2 A

Radiological Reference Date: February 1, 2026

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% $\leq$ RP $\leq$ 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

(29) = Statistically significant negative value at 3 standard deviations



Laboratory Results For MAPEP-26-RdV54

(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	0.054				0.038 - 0.070	
Uranium-238	NR	7.4				5.2 - 9.6	
Uranium-Total	NR	7.5				5.3 - 9.8	

Radiological						Units: (Bq/sample)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Unc Flag
Americium-241	NR	0.093				0.065 - 0.121	
Cesium-134	5.83	7.62	W		-23.5	5.33 - 9.91	0.17 A
Cesium-137	0.17		A			False Positive Test	0.23
Cobalt-57	4.45	5.59	W		-20.4	3.91 - 7.27	0.17 A
Cobalt-60	5.35	6.55	A		-18.3	4.59 - 8.52	0.2 A
Manganese-54	2.58	2.78	A		-7.2	1.95 - 3.61	0.23 A
Plutonium-238	NR	0.0932				0.0652 - 0.1212	
Plutonium-239/240	NR	0.094				0.066 - 0.122	
Strontium-90	NR	1.06				0.74 - 1.38	
Uranium-234	NR	0.089				0.062 - 0.116	
Uranium-238	NR	0.093				0.065 - 0.121	
Zinc-65	6.21	7.40	A		-16.1	5.18 - 9.62	0.45 A

Radiological Reference Date: February 1, 2026

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% $\leq$ RP $\leq$ 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

(29) = Statistically significant negative value at 3 standard deviations



Laboratory Results For MAPEP-26-RdV54
(MDPH01) MDPH-Division of Radiation Control
MERL-Room 0066
Jamaica Plain, MA 02130-3597

Inorganic						Units: (ug/sample)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Unc Flag
Uranium-235	NR	0.054				0.038 - 0.070	
Uranium-238	NR	7.4				5.2 - 9.6	
Uranium-Total	NR	7.5				5.3 - 9.8	

Radiological						Units: (Bq/sample)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Unc Flag
Americium-241	NR	0.093				0.065 - 0.121	
Cesium-134	6.08	7.62	W		-20.2	5.33 - 9.91	0.27 A
Cesium-137	NR					False Positive Test	
Cobalt-57	5.07	5.59	A		-9.3	3.91 - 7.27	0.32 A
Cobalt-60	6.03	6.55	A		-7.9	4.59 - 8.52	0.24 A
Manganese-54	2.60	2.78	A		-6.5	1.95 - 3.61	0.13 A
Plutonium-238	NR	0.0932				0.0652 - 0.1212	
Plutonium-239/240	NR	0.094				0.066 - 0.122	
Strontium-90	NR	1.06				0.74 - 1.38	
Uranium-234	NR	0.089				0.062 - 0.116	
Uranium-238	NR	0.093				0.065 - 0.121	
Zinc-65	7.30	7.40	A		-1.4	5.18 - 9.62	0.33 A

Radiological Reference Date: February 1, 2026

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% $\leq$ RP $\leq$ 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

(29) = Statistically significant negative value at 3 standard deviations



Laboratory Results For MAPEP-26-RdV54

(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	Unc Flag
Uranium-235	NR	0.054				0.038 - 0.070		
Uranium-238	NR	7.4				5.2 - 9.6		
Uranium-Total	NR	7.5				5.3 - 9.8		

Radiological					Units: (Bq/sample)			
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	0.0963	0.093	A		3.5	0.065 - 0.121	0.00780	A
Cesium-134	7.94	7.62	A		4.2	5.33 - 9.91	0.444	A
Cesium-137	-0.0735		A			False Positive Test	0.0727	
Cobalt-57	5.41	5.59	A		-3.2	3.91 - 7.27	0.311	A
Cobalt-60	5.84	6.55	A		-10.8	4.59 - 8.52	0.349	A
Manganese-54	2.80	2.78	A		0.7	1.95 - 3.61	0.184	A
Plutonium-238	0.0974	0.0932	A		4.5	0.0652 - 0.1212	0.00633	A
Plutonium-239/240	0.0864	0.094	A		-8.1	0.066 - 0.122	0.00585	A
Strontium-90	NR	1.06				0.74 - 1.38		
Uranium-234	0.0929	0.089	A		4.4	0.062 - 0.116	0.00632	A
Uranium-238	0.0942	0.093	A		1.3	0.065 - 0.121	0.00638	A
Zinc-65	7.34	7.40	A		-0.8	5.18 - 9.62	0.466	A

Radiological Reference Date: February 1, 2026

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% $\leq$ RP $\leq$ 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

(29) = Statistically significant negative value at 3 standard deviations



Mixed Analyte Performance Evaluation Program

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

Laboratory Results For MAPEP-26-RdV54

(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	0.054				0.038 - 0.070	
Uranium-238	NR	7.4				5.2 - 9.6	
Uranium-Total	NR	7.5				5.3 - 9.8	

Radiological						Units: (Bq/sample)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Unc Flag
Americium-241	NR	0.093				0.065 - 0.121	
Cesium-134	5.51	7.62	W		-27.7	5.33 - 9.91	0.338 A
Cesium-137	-0.04		A			False Positive Test	0.04
Cobalt-57	4.14	5.59	W		-25.9	3.91 - 7.27	0.518 A
Cobalt-60	5.02	6.55	W		-23.4	4.59 - 8.52	0.22 A
Manganese-54	2.27	2.78	A		-18.3	1.95 - 3.61	0.153 A
Plutonium-238	NR	0.0932				0.0652 - 0.1212	
Plutonium-239/240	NR	0.094				0.066 - 0.122	
Strontium-90	NR	1.06				0.74 - 1.38	
Uranium-234	NR	0.089				0.062 - 0.116	
Uranium-238	NR	0.093				0.065 - 0.121	
Zinc-65	6.36	7.40	A		-14.1	5.18 - 9.62	0.284 A

Radiological Reference Date: February 1, 2026

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% $\leq$ RP $\leq$ 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

(29) = Statistically significant negative value at 3 standard deviations



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

Laboratory Results For MAPEP-26-RdV54

(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	0.051	0.054	A		-5.6	0.038 - 0.070	0.003 A
Uranium-238	7.3	7.4	A		-1.4	5.2 - 9.6	0.4 A
Uranium-Total	7.4	7.5	A		-1.3	5.3 - 9.8	0.4 A

Radiological						Units: (Bq/sample)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Flag
Americium-241	0.091	0.093	A		-2.2	0.065 - 0.121	0.005 A
Cesium-134	6.9	7.62	A		-9.4	5.33 - 9.91	0.2 A
Cesium-137	0.2		A			False Positive Test	2
Cobalt-57	6.4	5.59	A		14.5	3.91 - 7.27	0.3 A
Cobalt-60	7.0	6.55	A		6.9	4.59 - 8.52	0.2 A
Manganese-54	3.0	2.78	A		7.9	1.95 - 3.61	0.1 A
Plutonium-238	0.078	0.0932	A		-16.3	0.0652 - 0.1212	0.004 A
Plutonium-239/240	0.078	0.094	A		-17.0	0.066 - 0.122	0.004 A
Strontium-90	1.03	1.06	A		-2.8	0.74 - 1.38	0.06 A
Uranium-234	0.081	0.089	A		-9.0	0.062 - 0.116	0.004 A
Uranium-238	0.081	0.093	A		-12.9	0.065 - 0.121	0.004 A
Zinc-65	8.6	7.40	A		16.2	5.18 - 9.62	0.3 A

Radiological Reference Date: February 1, 2026

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

(29) = Statistically significant negative value at 3 standard deviations



Laboratory Results For MAPEP-26-RdV54
(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	0.054				0.038 - 0.070	
Uranium-238	NR	7.4				5.2 - 9.6	
Uranium-Total	NR	7.5				5.3 - 9.8	

Radiological						Units: (Bq/sample)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Unc Flag
Americium-241	NR	0.093				0.065 - 0.121	
Cesium-134	7.49	7.62	A		-1.7	5.33 - 9.91	0.257 A
Cesium-137	0.0459		A			False Positive Test	0.0251
Cobalt-57	6.37	5.59	A		14.0	3.91 - 7.27	0.488 A
Cobalt-60	6.57	6.55	A		0.3	4.59 - 8.52	0.216 A
Manganese-54	2.78	2.78	A		0.0	1.95 - 3.61	0.211 A
Plutonium-238	NR	0.0932				0.0652 - 0.1212	
Plutonium-239/240	NR	0.094				0.066 - 0.122	
Strontium-90	NR	1.06				0.74 - 1.38	
Uranium-234	NR	0.089				0.062 - 0.116	
Uranium-238	NR	0.093				0.065 - 0.121	
Zinc-65	7.65	7.40	A		3.4	5.18 - 9.62	0.443 A

Radiological Reference Date: February 1, 2026

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% $\leq$ RP $\leq$ 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

(29) = Statistically significant negative value at 3 standard deviations



Laboratory Results For MAPEP-26-RdV54

(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	0.054				0.038 - 0.070	
Uranium-238	NR	7.4				5.2 - 9.6	
Uranium-Total	NR	7.5				5.3 - 9.8	

Radiological						Units: (Bq/sample)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Unc Flag
Americium-241	NR	0.093				0.065 - 0.121	
Cesium-134	6.61	7.62	A		-13.3	5.33 - 9.91	0.156 A
Cesium-137	0.0657		A			False Positive Test	0.184
Cobalt-57	4.70	5.59	A		-15.9	3.91 - 7.27	0.239 A
Cobalt-60	5.79	6.55	A		-11.6	4.59 - 8.52	0.153 A
Manganese-54	2.23	2.78	A		-19.8	1.95 - 3.61	0.112 A
Plutonium-238	NR	0.0932				0.0652 - 0.1212	
Plutonium-239/240	NR	0.094				0.066 - 0.122	
Strontium-90	NR	1.06				0.74 - 1.38	
Uranium-234	NR	0.089				0.062 - 0.116	
Uranium-238	NR	0.093				0.065 - 0.121	
Zinc-65	6.54	7.40	A		-11.6	5.18 - 9.62	0.288 A

Radiological Reference Date: February 1, 2026

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%

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Notes:

(1) = False Positive

(11) = False Positive Test, Result Not Reported

(29) = Statistically significant negative value at 3 standard deviations



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

Laboratory Results For MAPEP-26-RdV54

(SANC99) RadioAnalysis, South Africa Nuclear Energy Corp.

Sample Receipt Gate 1

Pretoria, Gauteng 0001

Inorganic						Units: (ug/sample)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Flag
Uranium-235	NR	0.054				0.038 - 0.070	
Uranium-238	NR	7.4				5.2 - 9.6	
Uranium-Total	NR	7.5				5.3 - 9.8	

Radiological						Units: (Bq/sample)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Flag
Americium-241	0.06	0.093	N		-35.5	0.065 - 0.121	0.06 N
Cesium-134	7.28	7.62	A		-4.5	5.33 - 9.91	0.22 A
Cesium-137	0.04		A			False Positive Test	0.04
Cobalt-57	5.14	5.59	A		-8.1	3.91 - 7.27	0.37 A
Cobalt-60	6.31	6.55	A		-3.7	4.59 - 8.52	0.19 A
Manganese-54	2.61	2.78	A		-6.1	1.95 - 3.61	0.16 A
Plutonium-238	NR	0.0932				0.0652 - 0.1212	
Plutonium-239/240	NR	0.094				0.066 - 0.122	
Strontium-90	0.299	1.06	N		-71.8	0.74 - 1.38	0.025 A
Uranium-234	NR	0.089				0.062 - 0.116	
Uranium-238	NR	0.093				0.065 - 0.121	
Zinc-65	7.04	7.40	A		-4.9	5.18 - 9.62	0.30 A

Radiological Reference Date: February 1, 2026

Results Flags:

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

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

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Laboratory Results For MAPEP-26-RdV54
(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	Unc Flag
Uranium-235	NR	0.054				0.038 - 0.070		
Uranium-238	NR	7.4				5.2 - 9.6		
Uranium-Total	NR	7.5				5.3 - 9.8		

Radiological					Units: (Bq/sample)			
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	0.08325	0.093	A		-10.5	0.065 - 0.121	0.00418	A
Cesium-134	7.28	7.62	A		-4.5	5.33 - 9.91	0.57	A
Cesium-137	-0.03		A			False Positive Test	0.14	
Cobalt-57	5.22	5.59	A		-6.6	3.91 - 7.27	0.41	A
Cobalt-60	6.24	6.55	A		-4.7	4.59 - 8.52	0.47	A
Manganese-54	2.70	2.78	A		-2.9	1.95 - 3.61	0.34	A
Plutonium-238	0.0855	0.0932	A		-8.3	0.0652 - 0.1212	0.0043	A
Plutonium-239/240	0.0888	0.094	A		-5.5	0.066 - 0.122	0.0044	A
Strontium-90	0.996	1.06	A		-6.0	0.74 - 1.38	0.057	A
Uranium-234	0.0858	0.089	A		-3.6	0.062 - 0.116	0.0046	A
Uranium-238	0.0925	0.093	A		-0.5	0.065 - 0.121	0.0049	A
Zinc-65	7.27	7.40	A		-1.8	5.18 - 9.62	0.77	A

Radiological Reference Date: February 1, 2026

Results Flags:

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

RW = Report Warning

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Mixed Analyte Performance Evaluation Program

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

Laboratory Results For MAPEP-26-RdV54

(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 Flag
Uranium-235	0.0557	0.054	A		3.1	0.038 - 0.070	0.00936 W
Uranium-238	7.34	7.4	A		-0.8	5.2 - 9.6	1.17 W
Uranium-Total	7.40	7.5	A		-1.3	5.3 - 9.8	1.18 W

Radiological						Units: (Bq/sample)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Flag
Americium-241	0.0885	0.093	A		-4.8	0.065 - 0.121	0.0116 A
Cesium-134	7.44	7.62	A		-2.4	5.33 - 9.91	0.231 A
Cesium-137	0.441		N	(1)		False Positive Test	0.145
Cobalt-57	6.19	5.59	A		10.7	3.91 - 7.27	0.162 A
Cobalt-60	6.70	6.55	A		2.3	4.59 - 8.52	0.269 A
Manganese-54	3.27	2.78	A		17.6	1.95 - 3.61	0.183 A
Plutonium-238	0.0967	0.0932	A		3.8	0.0652 - 0.1212	0.0117 A
Plutonium-239/240	0.0944	0.094	A		0.4	0.066 - 0.122	0.0114 A
Strontium-90	0.919	1.06	A		-13.3	0.74 - 1.38	0.0993 A
Uranium-234	0.0900	0.089	A		1.1	0.062 - 0.116	0.0108 A
Uranium-238	0.100	0.093	A		7.5	0.065 - 0.121	0.0113 A
Zinc-65	9.15	7.40	W		23.6	5.18 - 9.62	0.504 A

Radiological Reference Date: February 1, 2026

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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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

(29) = Statistically significant negative value at 3 standard deviations



Laboratory Results For MAPEP-26-RdV54

(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	0.054				0.038 - 0.070		
Uranium-238	NR	7.4				5.2 - 9.6		
Uranium-Total	NR	7.5				5.3 - 9.8		

Radiological						Units: (Bq/sample)		
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	NR	0.093				0.065 - 0.121		
Cesium-134	9.27E+00	7.62	W		21.7	5.33 - 9.91	5.95E-01	A
Cesium-137	1.19E-01		A			False Positive Test	1.29E-01	
Cobalt-57	6.26E+00	5.59	A		12.0	3.91 - 7.27	6.42E-01	A
Cobalt-60	7.73E+00	6.55	A		18.0	4.59 - 8.52	4.12E-01	A
Manganese-54	3.32E+00	2.78	A		19.4	1.95 - 3.61	2.30E-01	A
Plutonium-238	NR	0.0932				0.0652 - 0.1212		
Plutonium-239/240	NR	0.094				0.066 - 0.122		
Strontium-90	NR	1.06				0.74 - 1.38		
Uranium-234	NR	0.089				0.062 - 0.116		
Uranium-238	NR	0.093				0.065 - 0.121		
Zinc-65	8.61E+00	7.40	A		16.4	5.18 - 9.62	1.01	A

Radiological Reference Date: February 1, 2026

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% $\leq$ RP $\leq$ 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

(29) = Statistically significant negative value at 3 standard deviations



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

Laboratory Results For MAPEP-26-RdV54

(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	0.054				0.038 - 0.070	
Uranium-238	NR	7.4				5.2 - 9.6	
Uranium-Total	NR	7.5				5.3 - 9.8	

Radiological						Units: (Bq/sample)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Flag
Americium-241	NR	0.093				0.065 - 0.121	
Cesium-134	82.7	7.62	N		985.3	5.33 - 9.91	1.7 A
Cesium-137	1.6		A			False Positive Test	1.0
Cobalt-57	65.2	5.59	N		1066.4	3.91 - 7.27	1.8 A
Cobalt-60	68.3	6.55	N		942.7	4.59 - 8.52	1.6 A
Manganese-54	28.5	2.78	N		925.2	1.95 - 3.61	1.3 A
Plutonium-238	NR	0.0932				0.0652 - 0.1212	
Plutonium-239/240	NR	0.094				0.066 - 0.122	
Strontium-90	0.958	1.06	A		-9.6	0.74 - 1.38	0.029 A
Uranium-234	NR	0.089				0.062 - 0.116	
Uranium-238	NR	0.093				0.065 - 0.121	
Zinc-65	88.4	7.40	N		1094.6	5.18 - 9.62	3.7 A

Radiological Reference Date: February 1, 2026

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

(29) = Statistically significant negative value at 3 standard deviations



Laboratory Results For MAPEP-26-RdV54

(TELE01) Teledyne Brown Engineering - Environmental Services
2508 Quality Lane
Knoxville, TN 37931-6819

Inorganic						Units: (ug/sample)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Unc Flag
Uranium-235	NR	0.054				0.038 - 0.070	
Uranium-238	NR	7.4				5.2 - 9.6	
Uranium-Total	NR	7.5				5.3 - 9.8	

Radiological						Units: (Bq/sample)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Unc Flag
Americium-241	NR	0.093				0.065 - 0.121	
Cesium-134	6.33	7.62	A		-16.9	5.33 - 9.91	0.203 A
Cesium-137	0.0456		A			False Positive Test	0.124
Cobalt-57	5.43	5.59	A		-2.9	3.91 - 7.27	0.213 A
Cobalt-60	5.91	6.55	A		-9.8	4.59 - 8.52	0.252 A
Manganese-54	2.68	2.78	A		-3.6	1.95 - 3.61	0.277 A
Plutonium-238	NR	0.0932				0.0652 - 0.1212	
Plutonium-239/240	NR	0.094				0.066 - 0.122	
Strontium-90	1.09	1.06	A		2.8	0.74 - 1.38	0.0721 A
Uranium-234	NR	0.089				0.062 - 0.116	
Uranium-238	NR	0.093				0.065 - 0.121	
Zinc-65	6.51	7.40	A		-12.0	5.18 - 9.62	0.608 A

Radiological Reference Date: February 1, 2026

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

Notes:

(1) = False Positive

(11) = False Positive Test, Result Not Reported

(29) = Statistically significant negative value at 3 standard deviations



Laboratory Results For MAPEP-26-RdV54
(TELE02) Microbac Laboratories Inc. - Northbrook
700 Landwehr Road
Northbrook, IL 60062-

Inorganic						Units: (ug/sample)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Unc Flag
Uranium-235	NR	0.054				0.038 - 0.070	
Uranium-238	NR	7.4				5.2 - 9.6	
Uranium-Total	NR	7.5				5.3 - 9.8	

Radiological						Units: (Bq/sample)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Unc Flag
Americium-241	NR	0.093				0.065 - 0.121	
Cesium-134	5.70	7.62	W		-25.2	5.33 - 9.91	0.15 A
Cesium-137	0.01		A			False Positive Test	0.05
Cobalt-57	4.88	5.59	A		-12.7	3.91 - 7.27	0.12 A
Cobalt-60	5.45	6.55	A		-16.8	4.59 - 8.52	0.16 A
Manganese-54	2.49	2.78	A		-10.4	1.95 - 3.61	0.17 A
Plutonium-238	NR	0.0932				0.0652 - 0.1212	
Plutonium-239/240	NR	0.094				0.066 - 0.122	
Strontium-90	NR	1.06				0.74 - 1.38	
Uranium-234	NR	0.089				0.062 - 0.116	
Uranium-238	NR	0.093				0.065 - 0.121	
Zinc-65	6.33	7.40	A		-14.5	5.18 - 9.62	0.31 A

Radiological Reference Date: February 1, 2026

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

Notes:

(1) = False Positive

(11) = False Positive Test, Result Not Reported

(29) = Statistically significant negative value at 3 standard deviations



Laboratory Results For MAPEP-26-RdV54
(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	Unc Flag
Uranium-235	NR	0.054				0.038 - 0.070		
Uranium-238	NR	7.4				5.2 - 9.6		
Uranium-Total	NR	7.5				5.3 - 9.8		

Radiological						Units: (Bq/sample)		
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value	Unc Flag
Americium-241	0.086	0.093	A		-7.5	0.065 - 0.121	0.048	N
Cesium-134	6.612	7.62	A		-13.2	5.33 - 9.91	0.780	A
Cesium-137	0.147		A			False Positive Test	0.413	
Cobalt-57	5.292	5.59	A		-5.3	3.91 - 7.27	0.605	A
Cobalt-60	6.414	6.55	A		-2.1	4.59 - 8.52	0.766	A
Manganese-54	3.134	2.78	A		12.7	1.95 - 3.61	0.928	W
Plutonium-238	0.092	0.0932	A		-1.3	0.0652 - 0.1212	0.080	N
Plutonium-239/240	0.268	0.094	N		185.1	0.066 - 0.122	0.142	N
Strontium-90	1.127	1.06	A		6.3	0.74 - 1.38	0.183	W
Uranium-234	0.161	0.089	N		80.9	0.062 - 0.116	0.085	N
Uranium-238	0.142	0.093	N		52.7	0.065 - 0.121	0.092	N
Zinc-65	6.503	7.40	A		-12.1	5.18 - 9.62	1.764	W

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Notes:

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

Laboratory Results For MAPEP-26-RdV54

(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	0.054				0.038 - 0.070	
Uranium-238	NR	7.4				5.2 - 9.6	
Uranium-Total	NR	7.5				5.3 - 9.8	

Radiological						Units: (Bq/sample)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Unc Flag
Americium-241	-0.008	0.093	N		-108.6	0.065 - 0.121	0.161 N
Cesium-134	7.036	7.62	A		-7.7	5.33 - 9.91	0.213 A
Cesium-137	0.013		A			False Positive Test	0.030
Cobalt-57	5.750	5.59	A		2.9	3.91 - 7.27	0.430 A
Cobalt-60	6.256	6.55	A		-4.5	4.59 - 8.52	0.195 A
Manganese-54	2.582	2.78	A		-7.1	1.95 - 3.61	0.157 A
Plutonium-238	NR	0.0932				0.0652 - 0.1212	
Plutonium-239/240	NR	0.094				0.066 - 0.122	
Strontium-90	NR	1.06				0.74 - 1.38	
Uranium-234	NR	0.089				0.062 - 0.116	
Uranium-238	NR	0.093				0.065 - 0.121	
Zinc-65	6.547	7.40	A		-11.5	5.18 - 9.62	0.341 A

Radiological Reference Date: February 1, 2026

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

(29) = Statistically significant negative value at 3 standard deviations



Laboratory Results For MAPEP-26-RdV54
(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	0.054				0.038 - 0.070	
Uranium-238	NR	7.4				5.2 - 9.6	
Uranium-Total	NR	7.5				5.3 - 9.8	

Radiological						Units: (Bq/sample)	
Analyte	Result	Ref Value	Flag	Notes	Bias (%)	Acceptance Range	Unc Value Unc Flag
Americium-241	0.08319	0.093	A		-10.5	0.065 - 0.121	0.005175 A
Cesium-134	6.52	7.62	A		-14.4	5.33 - 9.91	0.241 A
Cesium-137	0.000758		A			False Positive Test	0.0350
Cobalt-57	4.84	5.59	A		-13.4	3.91 - 7.27	0.151 A
Cobalt-60	6.30	6.55	A		-3.8	4.59 - 8.52	0.562 A
Manganese-54	2.71	2.78	A		-2.5	1.95 - 3.61	.148 A
Plutonium-238	0.08700	0.0932	A		-6.7	0.0652 - 0.1212	0.005721 A
Plutonium-239/240	0.08518	0.094	A		-9.4	0.066 - 0.122	0.005614 A
Strontium-90	0.721	1.06	N		-32.0	0.74 - 1.38	0.0179 A
Uranium-234	0.08544	0.089	A		-4.0	0.062 - 0.116	0.005512 A
Uranium-238	0.09104	0.093	A		-2.1	0.065 - 0.121	0.005744 A
Zinc-65	7.43	7.40	A		0.4	5.18 - 9.62	0.663 A

Radiological Reference Date: February 1, 2026

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:

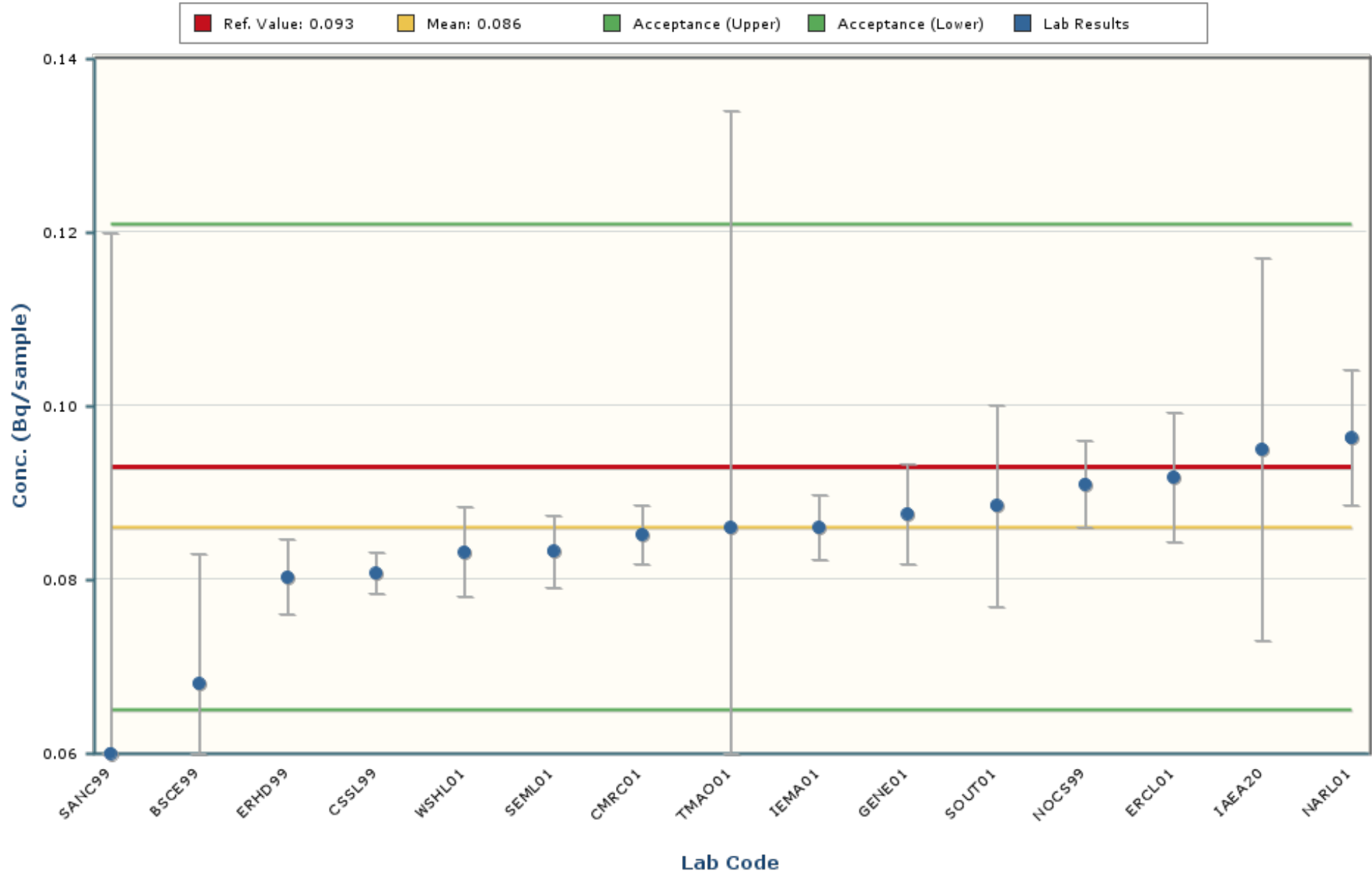
(1) = False Positive

(11) = False Positive Test, Result Not Reported

(29) = Statistically significant negative value at 3 standard deviations

Americium-241

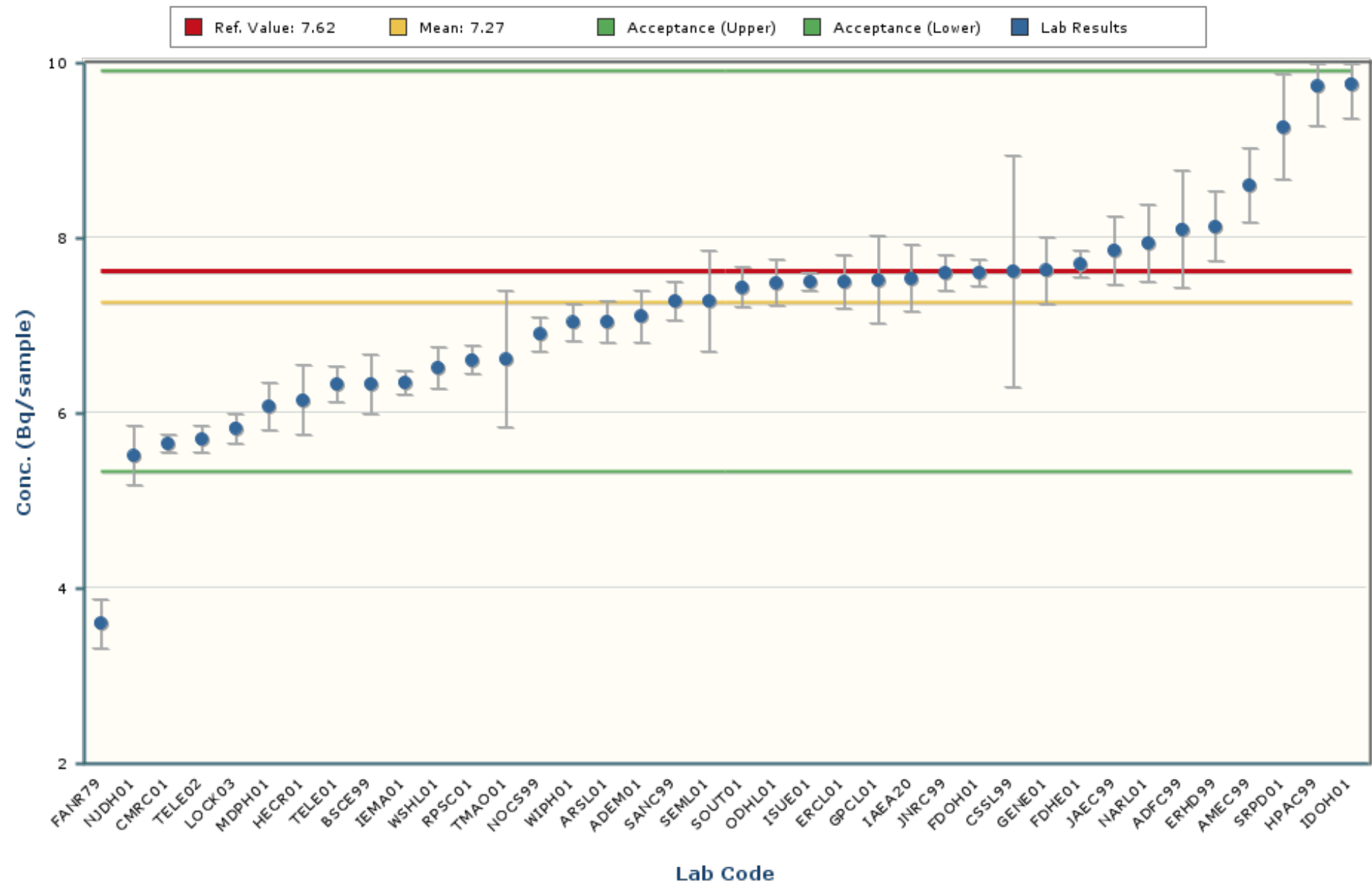
MAPEP-26-RdV54



Notes:
The chart mean excludes values outside of a bias range of $\pm 30\%$.
The chart shows only data points with values between 0.050 and 0.121 (± 5 Standard Deviations).
The error bars encompassing each result are plotted at $\pm$ one standard deviation.

Cesium-134

MAPEP-26-RdV54



Notes:

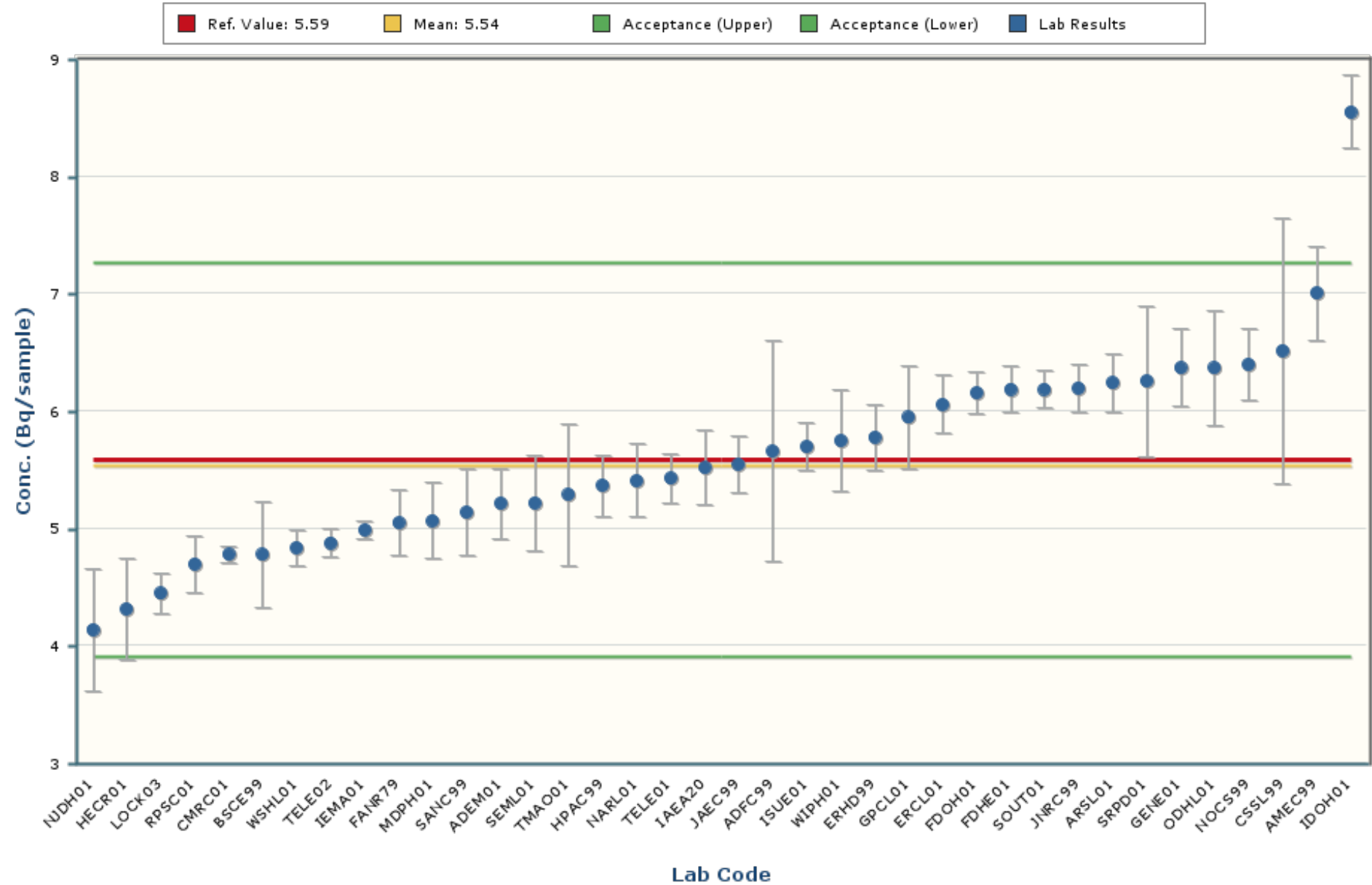
The chart mean excludes values outside of a bias range of $\pm 30\%$.

The chart shows only data points with values between 2.10 and 12.43 (± 5 Standard Deviations).

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

Cobalt-57

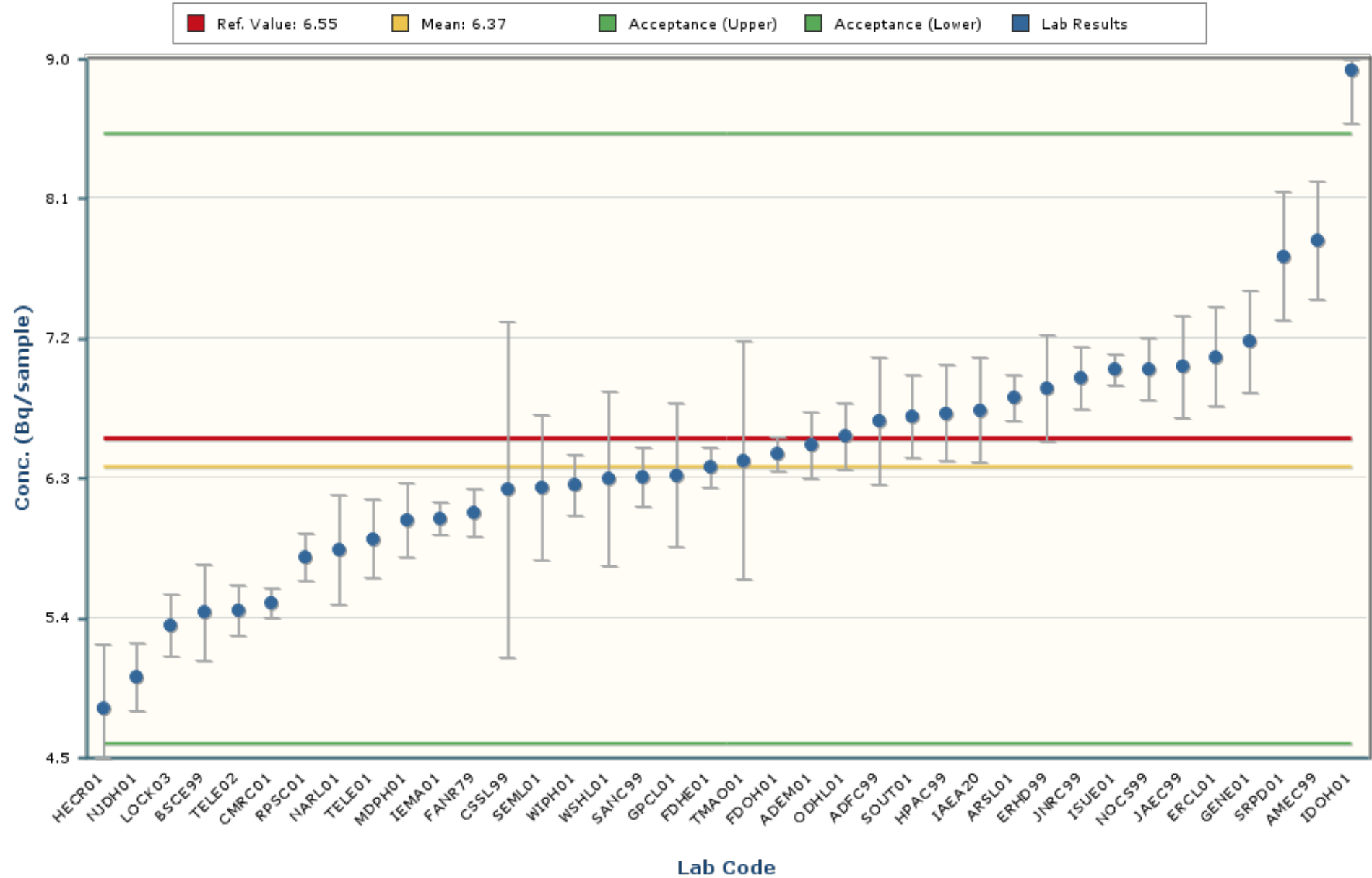
MAPEP-26-RdV54



Notes:
The chart mean excludes values outside of a bias range of $\pm 30\%$.
The chart shows only data points with values between 2.09 and 8.99 (± 5 Standard Deviations).
The error bars encompassing each result are plotted at $\pm$ one standard deviation.

Cobalt-60

MAPEP-26-RdV54



Notes:

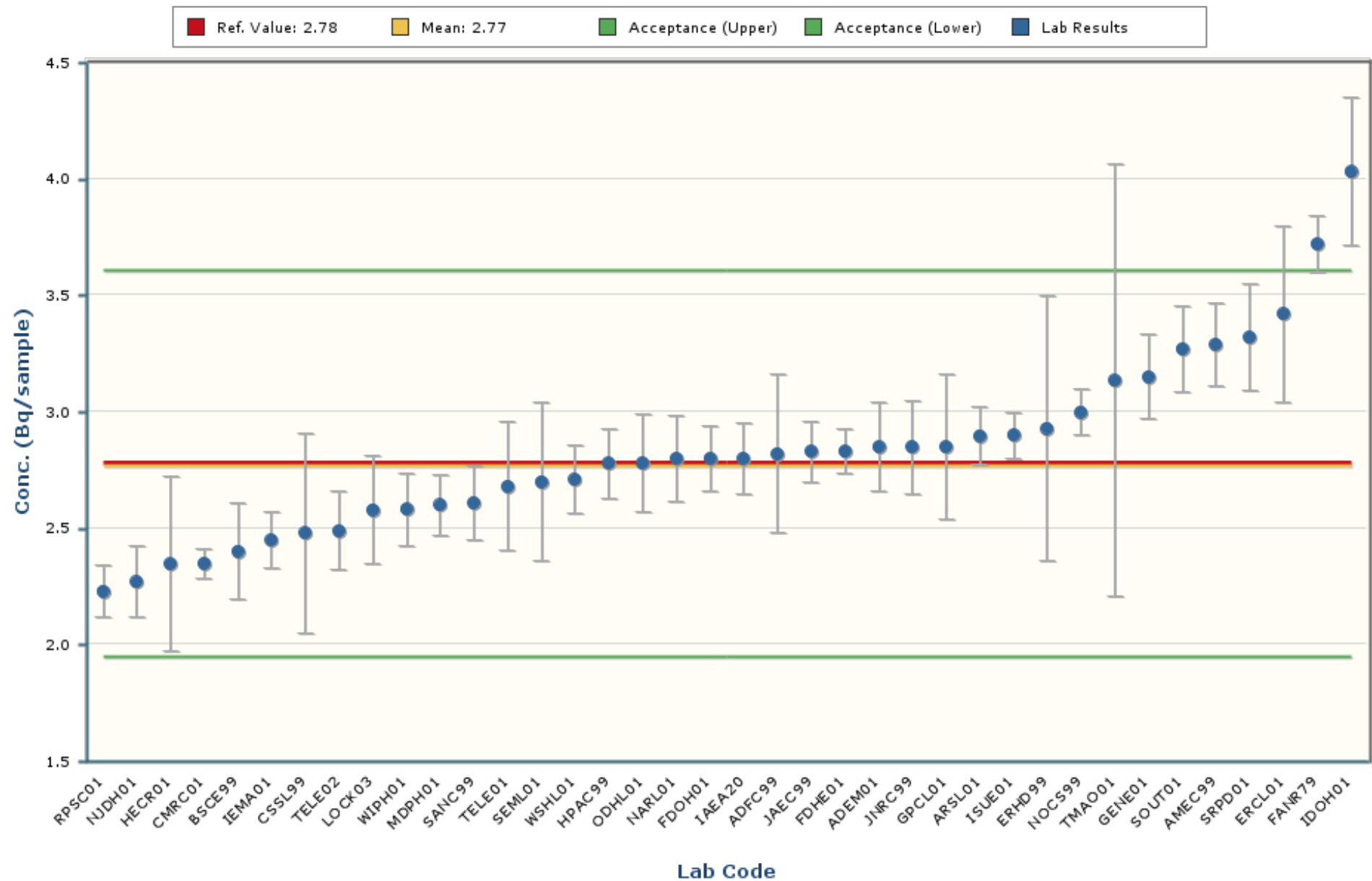
The chart mean excludes values outside of a bias range of $\pm 30\%$.

The chart shows only data points with values between 2.97 and 9.77 (± 5 Standard Deviations).

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

Manganese-54

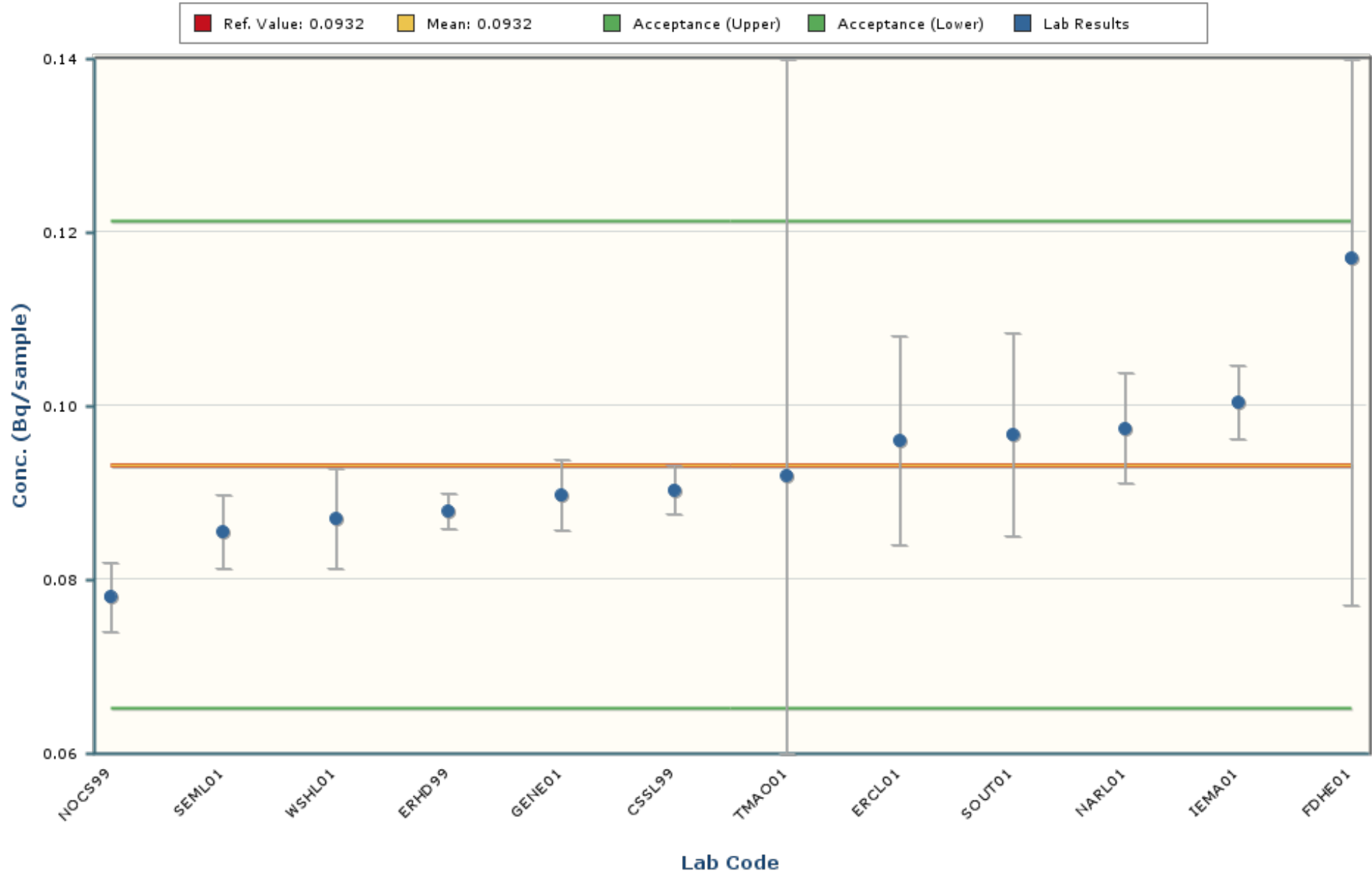
MAPEP-26-RdV54



Notes:
The chart mean excludes values outside of a bias range of $\pm 30\%$.
The chart shows only data points with values between 1.28 and 4.26 (± 5 Standard Deviations).
The error bars encompassing each result are plotted at $\pm$ one standard deviation.

Plutonium-238

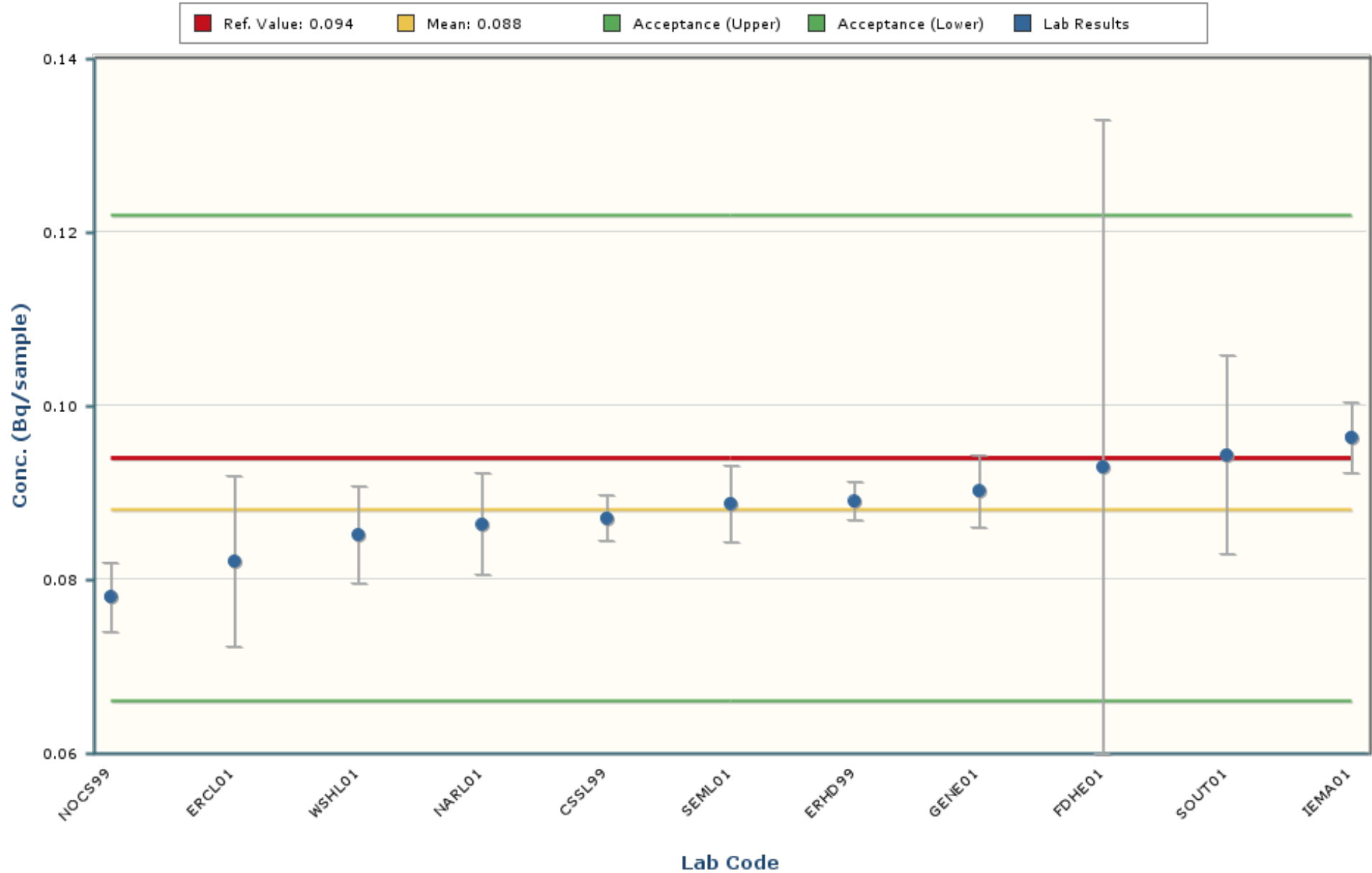
MAPEP-26-RdV54



Notes:
The chart mean excludes values outside of a bias range of $\pm 30\%$.
The chart shows only data points with values between 0.0447 and 0.1417 (± 5 Standard Deviations).
The error bars encompassing each result are plotted at $\pm$ one standard deviation.

Plutonium-239/240

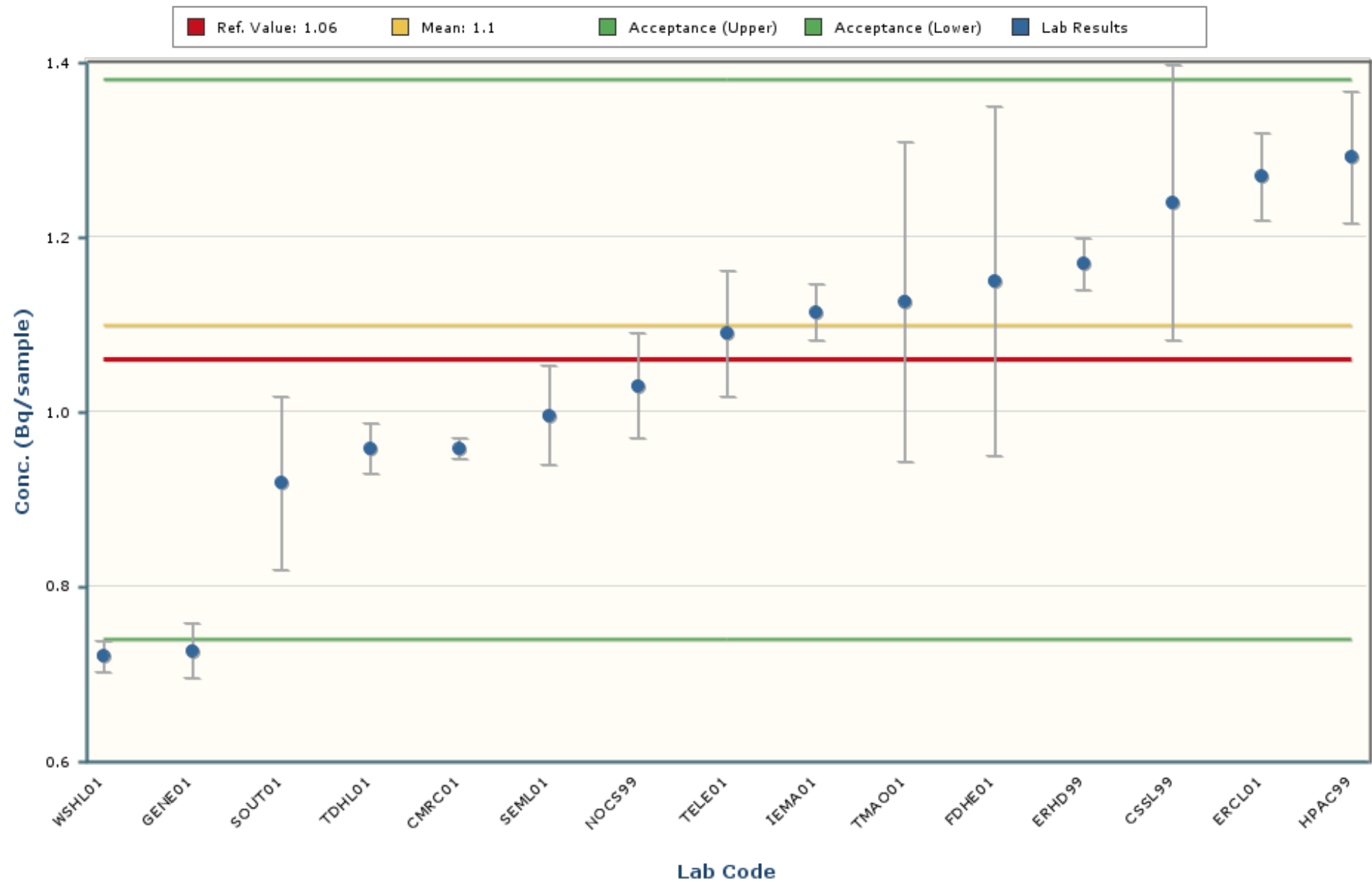
MAPEP-26-RdV54



Notes:
The chart mean excludes values outside of a bias range of $\pm 30\%$.
The chart shows only data points with values between 0.061 and 0.115 (± 5 Standard Deviations).
The error bars encompassing each result are plotted at $\pm$ one standard deviation.

Strontium-90

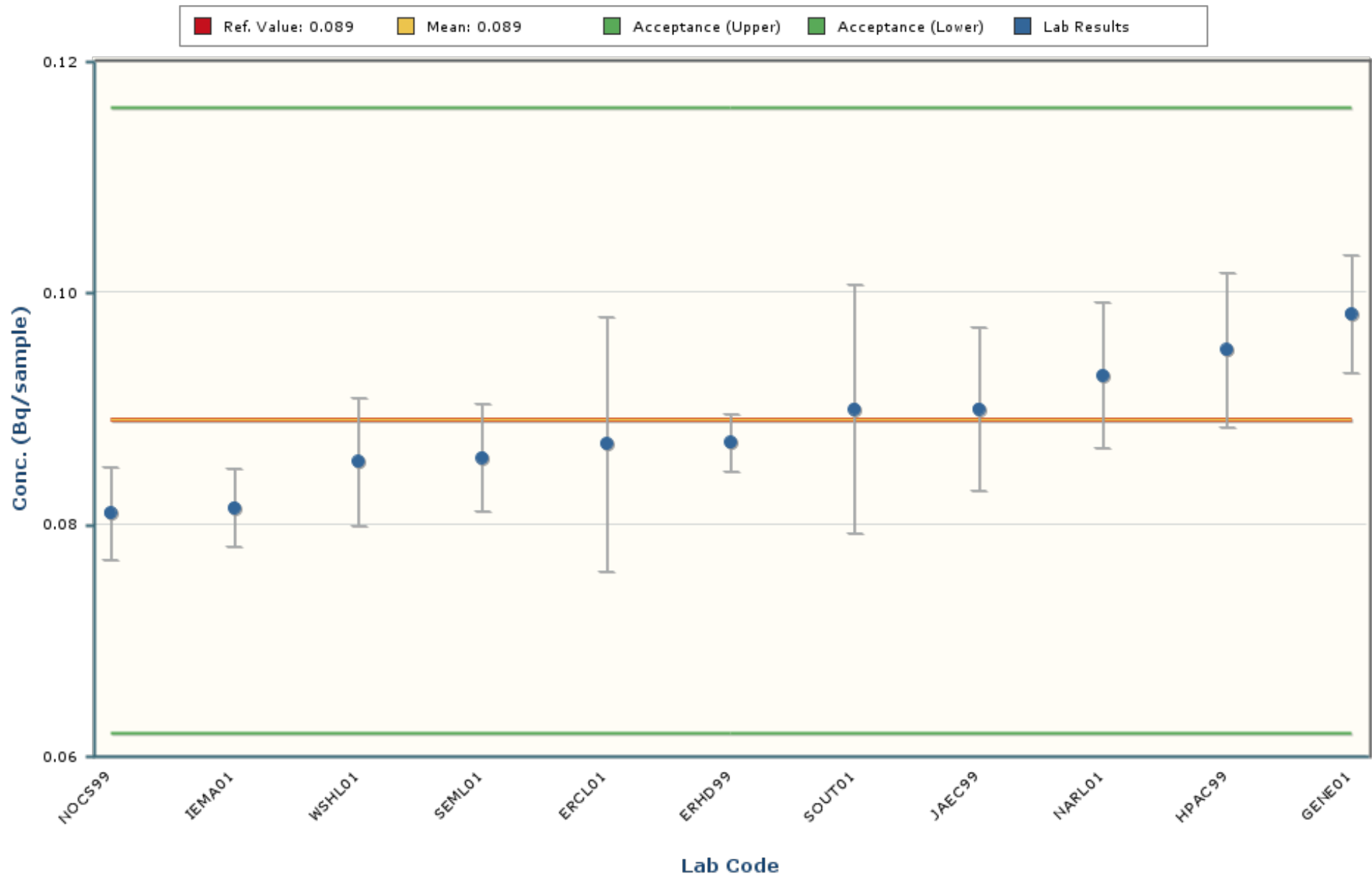
MAPEP-26-RdV54



Notes:
The chart mean excludes values outside of a bias range of $\pm 30\%$.
The chart shows only data points with values between 0.48 and 1.72 (± 5 Standard Deviations).
The error bars encompassing each result are plotted at $\pm$ one standard deviation.

Uranium-234

MAPEP-26-RdV54



Notes:

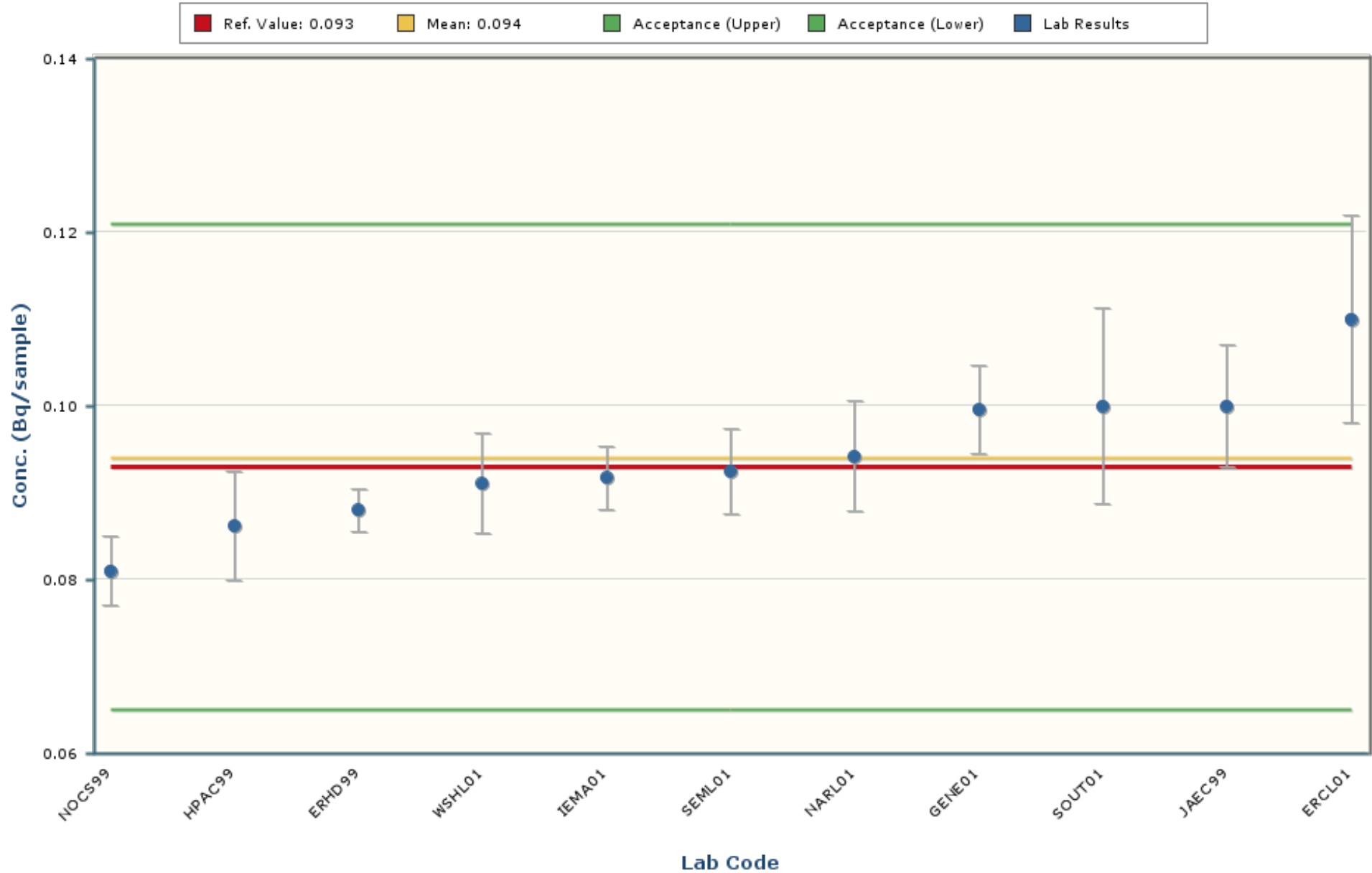
The chart mean excludes values outside of a bias range of $\pm 30\%$.

The chart shows only data points with values between 0.062 and 0.115 (± 5 Standard Deviations).

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

Uranium-238

MAPEP-26-RdV54



Notes:

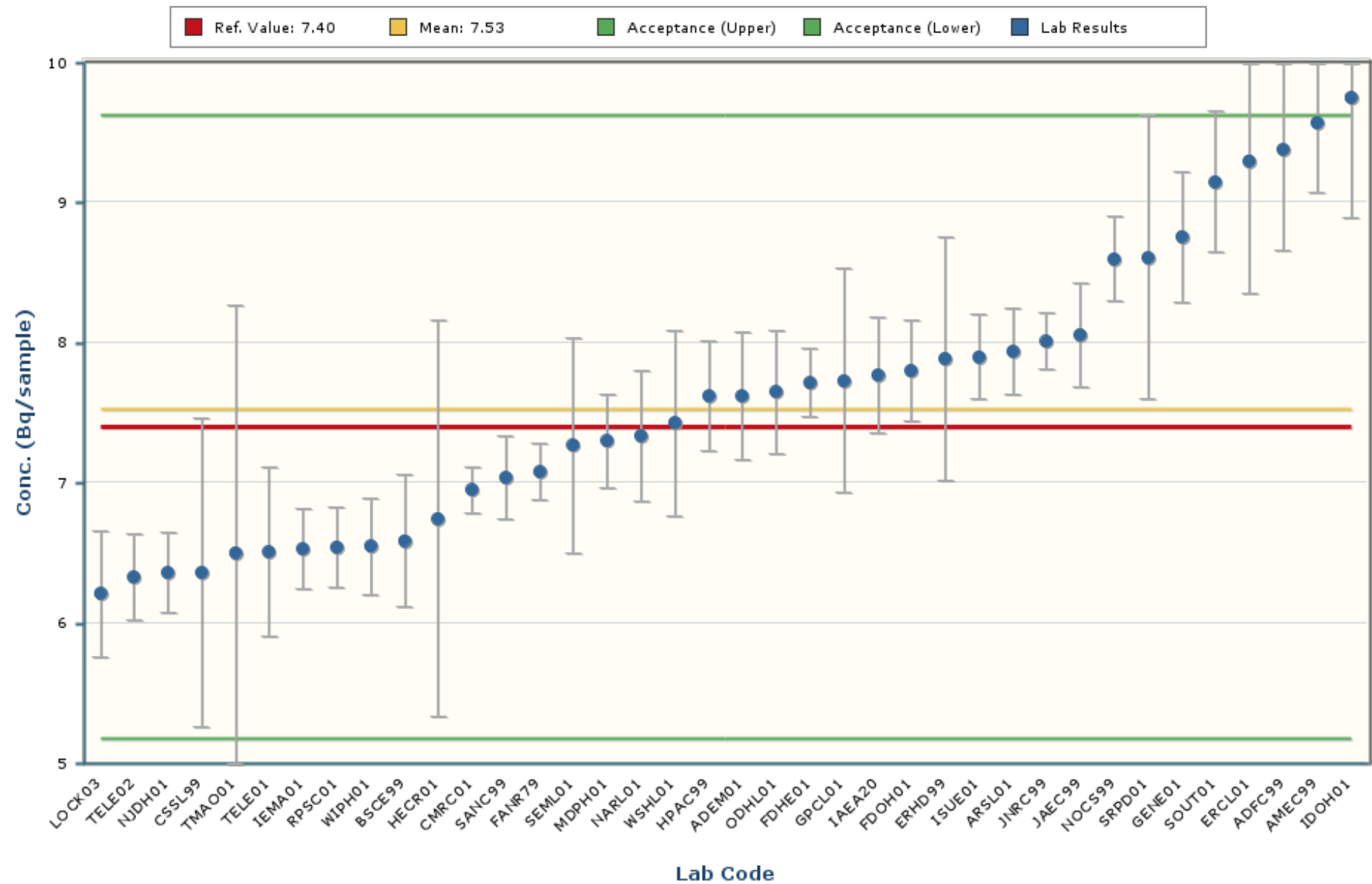
The chart mean excludes values outside of a bias range of $\pm 30\%$.

The chart shows only data points with values between 0.054 and 0.134 (± 5 Standard Deviations).

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

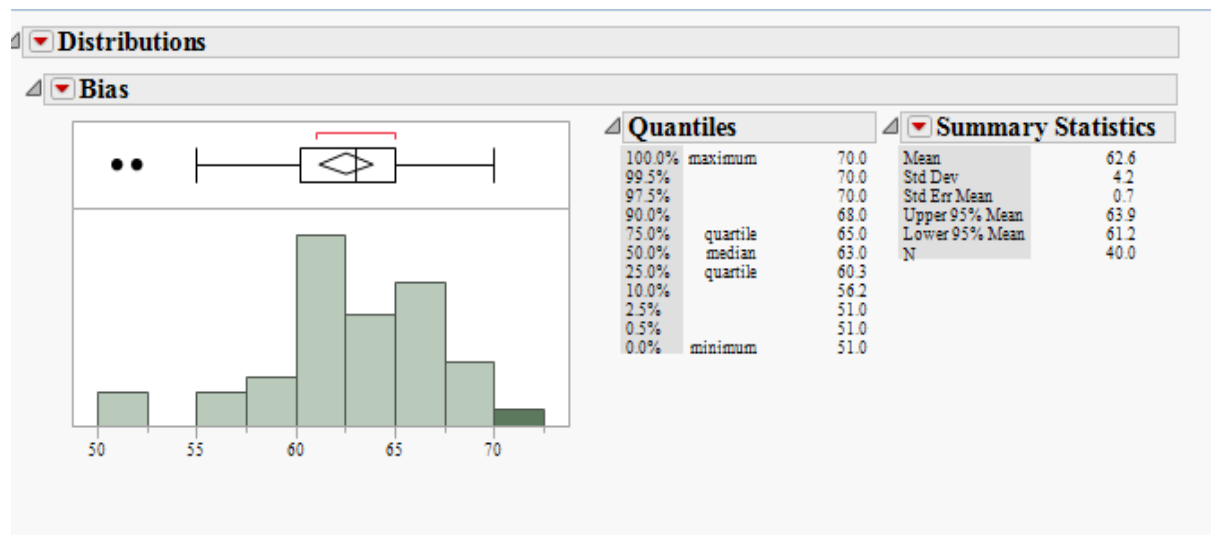
Zinc-65

MAPEP-26-RdV54



Notes:
The chart mean excludes values outside of a bias range of $\pm 30\%$.
The chart shows only data points with values between 2.84 and 12.23 (± 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.

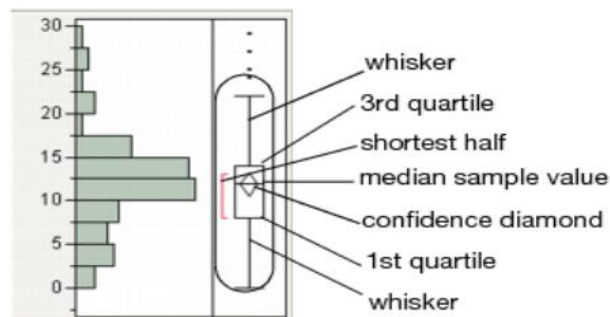


Outlier Box Plot

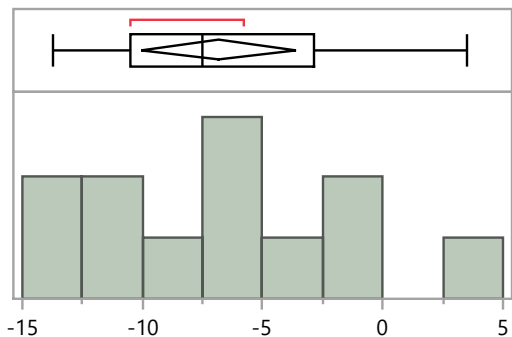
The BLACK small vertical line inside the small rectangle at the top of the data distribution graph is the median of the population of the bias shown for that analyte in the matrix. The confidence diamond contains the mean and the upper and lower 95% of the mean. If you drew a line through the middle 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)



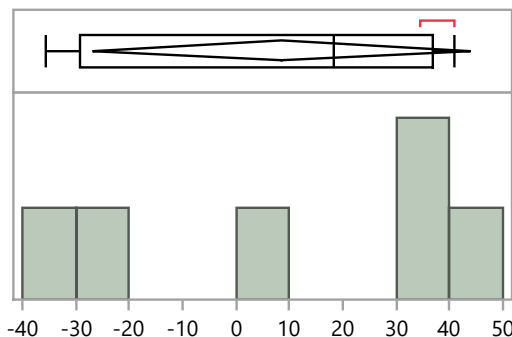
If the data points do not reach the computed ranges, then the whiskers are determined by the upper and lower data point values (not including outliers). The bracket outside of the box identifies the *shortest half*, which is the most dense 50% of the observations (Rousseuw and Leroy 1987).

RdV54 Distribution by Detection Method**Distributions Analyte_Detection=Americium-241 Alpha Spectrometry****Bias****Quantiles**

100.0%	maximum	3.5
99.5%		3.5
97.5%		3.5
90.0%		2.1
75.0%	quartile	-2.9
50.0%	median	-7.5
25.0%	quartile	-10.5
10.0%		-13.6
2.5%		-13.7
0.5%		-13.7
0.0%	minimum	-13.7

Summary Statistics

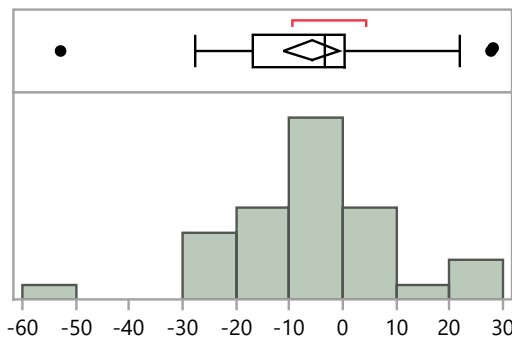
Mean	-6.8
Std Dev	5.1
Std Err Mean	1.5
Upper 95% Mean	-3.6
Lower 95% Mean	-10.0
N	12.0

Distributions Analyte_Detection=Americium-241 Gamma Spectrometry**Bias****Quantiles**

100.0%	maximum	40.9
99.5%		40.9
97.5%		40.9
90.0%		40.9
75.0%	quartile	36.9
50.0%	median	18.3
25.0%	quartile	-29.1
10.0%		-35.5
2.5%		-35.5
0.5%		-35.5
0.0%	minimum	-35.5

Summary Statistics

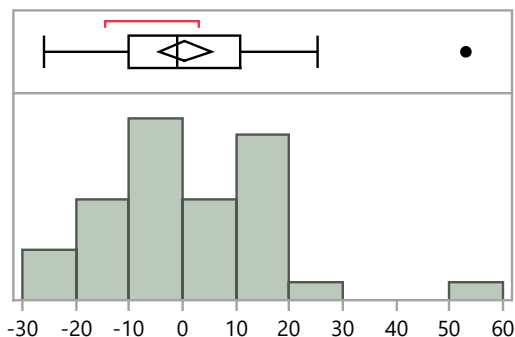
Mean	8.4
Std Dev	33.7
Std Err Mean	13.8
Upper 95% Mean	43.8
Lower 95% Mean	-26.9
N	6.0

Distributions Analyte_Detection=Cesium-134 Gamma Spectrometry**Bias****Quantiles**

100.0%	maximum	28.1
99.5%		28.1
97.5%		28.1
90.0%		13.8
75.0%	quartile	0.4
50.0%	median	-3.5
25.0%	quartile	-16.8
10.0%		-25.3
2.5%		-52.8
0.5%		-52.8
0.0%	minimum	-52.8

Summary Statistics

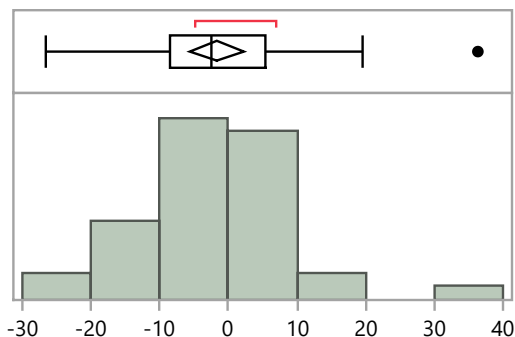
Mean	-5.9
Std Dev	15.5
Std Err Mean	2.5
Upper 95% Mean	-0.8
Lower 95% Mean	-11.0
N	38.0

RdV54 Distribution by Detection Method**Distributions Analyte_Detection=Cobalt-57 Gamma Spectrometry****Bias****Quantiles**

100.0%	maximum	53.0
99.5%		53.0
97.5%		53.0
90.0%		14.7
75.0%	quartile	10.8
50.0%	median	-1.0
25.0%	quartile	-10.0
10.0%		-16.4
2.5%		-25.9
0.5%		-25.9
0.0%	minimum	-25.9

Summary Statistics

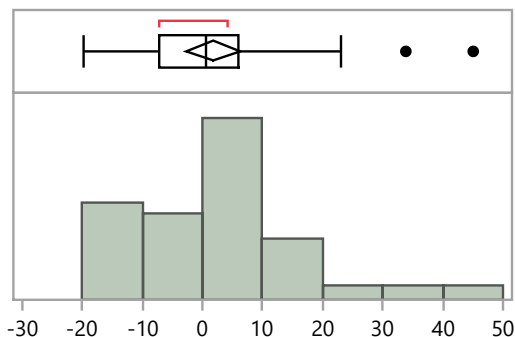
Mean	0.5
Std Dev	15.0
Std Err Mean	2.4
Upper 95% Mean	5.4
Lower 95% Mean	-4.4
N	38.0

Distributions Analyte_Detection=Cobalt-60 Gamma Spectrometry**Bias****Quantiles**

100.0%	maximum	36.3
99.5%		36.3
97.5%		36.3
90.0%		10.4
75.0%	quartile	5.3
50.0%	median	-2.4
25.0%	quartile	-8.4
10.0%		-17.1
2.5%		-26.5
0.5%		-26.5
0.0%	minimum	-26.5

Summary Statistics

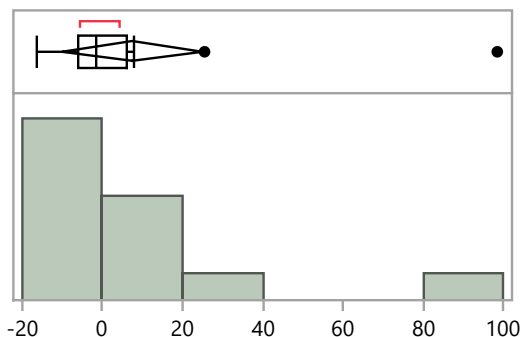
Mean	-1.8
Std Dev	12.0
Std Err Mean	2.0
Upper 95% Mean	2.2
Lower 95% Mean	-5.7
N	38.0

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

100.0%	maximum	45.0
99.5%		45.0
97.5%		45.0
90.0%		19.8
75.0%	quartile	6.0
50.0%	median	0.7
25.0%	quartile	-7.1
10.0%		-15.5
2.5%		-19.8
0.5%		-19.8
0.0%	minimum	-19.8

Summary Statistics

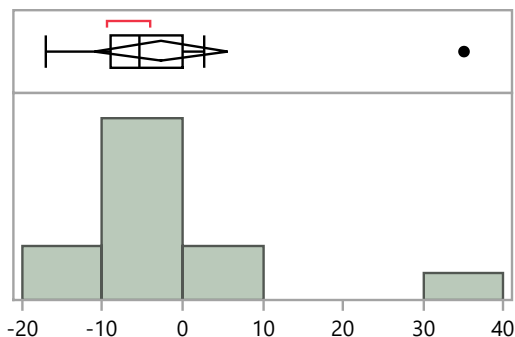
Mean	1.8
Std Dev	13.8
Std Err Mean	2.2
Upper 95% Mean	6.3
Lower 95% Mean	-2.8
N	38.0

RdV54 Distribution by Detection Method**Distributions Analyte_Detection=Plutonium-238 Alpha Spectrometry****Bias****Quantiles**

100.0%	maximum	98.5
99.5%		98.5
97.5%		98.5
90.0%		69.3
75.0%	quartile	6.1
50.0%	median	-1.3
25.0%	quartile	-6.2
10.0%		-13.1
2.5%		-16.3
0.5%		-16.3
0.0%	minimum	-16.3

Summary Statistics

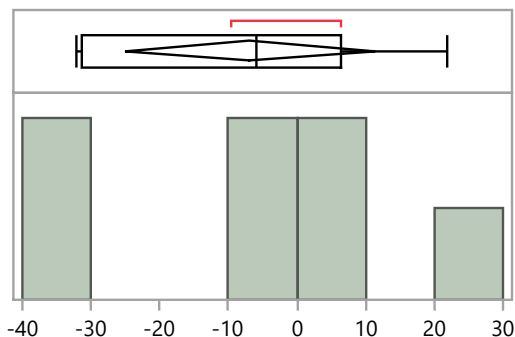
Mean	7.5
Std Dev	29.1
Std Err Mean	8.1
Upper 95% Mean	25.1
Lower 95% Mean	-10.1
N	13.0

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

100.0%	maximum	35.1
99.5%		35.1
97.5%		35.1
90.0%		25.4
75.0%	quartile	0.0
50.0%	median	-5.4
25.0%	quartile	-9.1
10.0%		-15.7
2.5%		-17.0
0.5%		-17.0
0.0%	minimum	-17.0

Summary Statistics

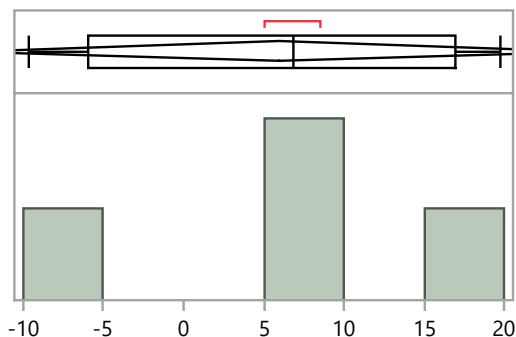
Mean	-2.7
Std Dev	13.1
Std Err Mean	3.8
Upper 95% Mean	5.6
Lower 95% Mean	-11.0
N	12.0

Distributions Analyte_Detection=Strontium-90 Gas Flow Proportional Counter**Bias****Quantiles**

100.0%	maximum	21.9
99.5%		21.9
97.5%		21.9
90.0%		21.9
75.0%	quartile	6.3
50.0%	median	-6.0
25.0%	quartile	-31.4
10.0%		-32.0
2.5%		-32.0
0.5%		-32.0
0.0%	minimum	-32.0

Summary Statistics

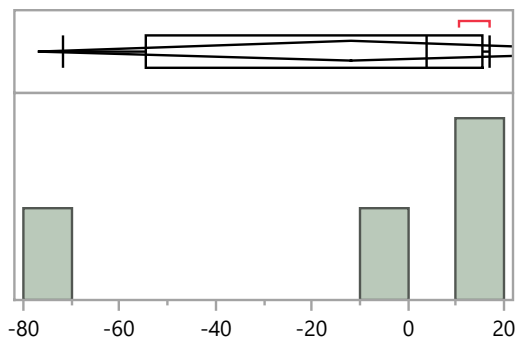
Mean	-6.9
Std Dev	19.7
Std Err Mean	7.5
Upper 95% Mean	11.4
Lower 95% Mean	-25.1
N	7.0

RdV54 Distribution by Detection Method**Distributions Analyte_Detection=Strontium-90 Gross Alpha/Beta - 2 pi gas flow proportional counter****Bias****Quantiles**

100.0%	maximum	19.8
99.5%		19.8
97.5%		19.8
90.0%		19.8
75.0%	quartile	17.0
50.0%	median	6.8
25.0%	quartile	-5.9
10.0%		-9.6
2.5%		-9.6
0.5%		-9.6
0.0%	minimum	-9.6

Summary Statistics

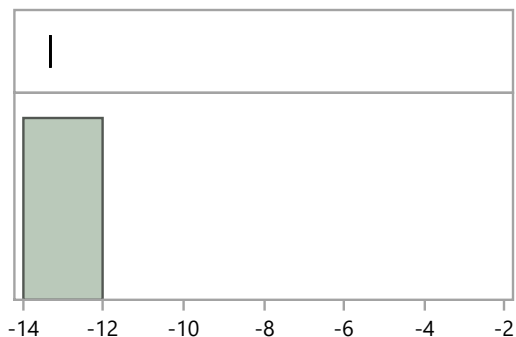
Mean	6.0
Std Dev	12.1
Std Err Mean	6.1
Upper 95% Mean	25.2
Lower 95% Mean	-13.3
N	4.0

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

100.0%	maximum	17.0
99.5%		17.0
97.5%		17.0
90.0%		17.0
75.0%	quartile	15.4
50.0%	median	3.8
25.0%	quartile	-54.6
10.0%		-71.8
2.5%		-71.8
0.5%		-71.8
0.0%	minimum	-71.8

Summary Statistics

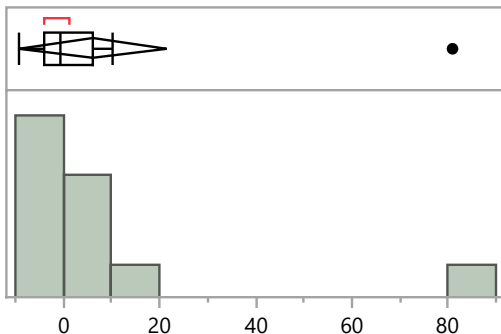
Mean	-11.8
Std Dev	40.8
Std Err Mean	20.4
Upper 95% Mean	53.2
Lower 95% Mean	-76.8
N	4.0

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

100.0%	maximum	-13.3
99.5%		-13.3
97.5%		-13.3
90.0%		-13.3
75.0%	quartile	-13.3
50.0%	median	-13.3
25.0%	quartile	-13.3
10.0%		-13.3
2.5%		-13.3
0.5%		-13.3
0.0%	minimum	-13.3

Summary Statistics

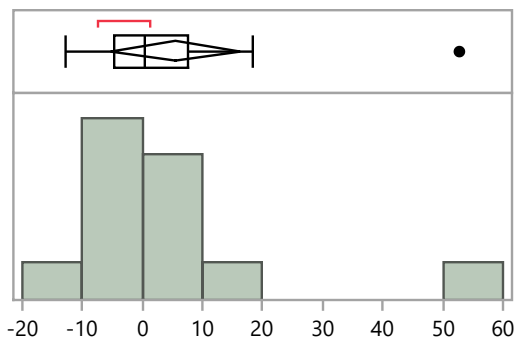
Mean	-13.3
Std Dev	.
Std Err Mean	.
Upper 95% Mean	.
Lower 95% Mean	.
N	1.0

RdV54 Distribution by Detection Method**Distributions Analyte_Detection=Uranium-234 Alpha Spectrometry****Bias****Quantiles**

100.0%	maximum	80.9
99.5%		80.9
97.5%		80.9
90.0%		59.7
75.0%	quartile	6.3
50.0%	median	-0.5
25.0%	quartile	-3.9
10.0%		-8.9
2.5%		-9.0
0.5%		-9.0
0.0%	minimum	-9.0

Summary Statistics

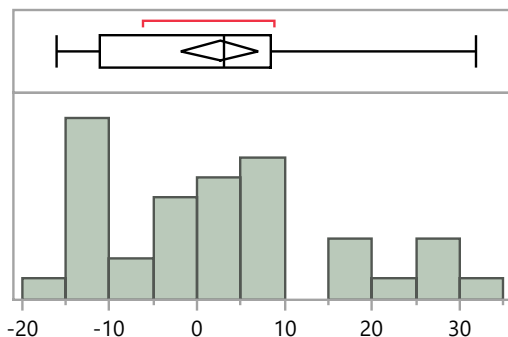
Mean	6.3
Std Dev	24.2
Std Err Mean	7.0
Upper 95% Mean	21.6
Lower 95% Mean	-9.1
N	12.0

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

100.0%	maximum	52.7
99.5%		52.7
97.5%		52.7
90.0%		42.4
75.0%	quartile	7.5
50.0%	median	0.4
25.0%	quartile	-4.6
10.0%		-11.2
2.5%		-12.9
0.5%		-12.9
0.0%	minimum	-12.9

Summary Statistics

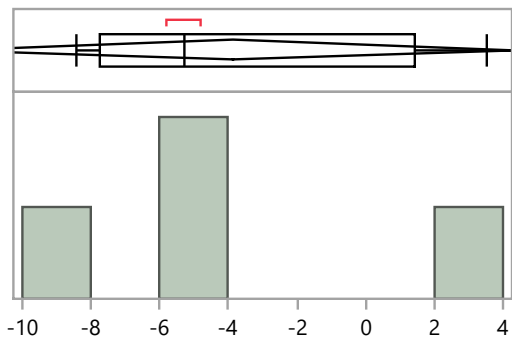
Mean	5.4
Std Dev	17.0
Std Err Mean	4.9
Upper 95% Mean	16.2
Lower 95% Mean	-5.4
N	12.0

Distributions Analyte_Detection=Zinc-65 Gamma Spectrometry**Bias****Quantiles**

100.0%	maximum	31.8
99.5%		31.8
97.5%		31.8
90.0%		25.8
75.0%	quartile	8.4
50.0%	median	3.0
25.0%	quartile	-11.1
10.0%		-14.1
2.5%		-16.1
0.5%		-16.1
0.0%	minimum	-16.1

Summary Statistics

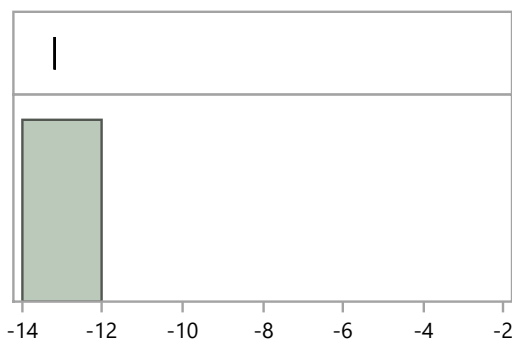
Mean	2.6
Std Dev	13.4
Std Err Mean	2.2
Upper 95% Mean	7.0
Lower 95% Mean	-1.8
N	38.0

RdV54 Distribution by Preparation Method**Distributions Analyte_Method=Americium-241 Acid dissolution with hydrofluoric acid****Bias****Quantiles**

100.0%	maximum	3.5
99.5%		3.5
97.5%		3.5
90.0%		3.5
75.0%	quartile	1.4
50.0%	median	-5.3
25.0%	quartile	-7.8
10.0%		-8.4
2.5%		-8.4
0.5%		-8.4
0.0%	minimum	-8.4

Summary Statistics

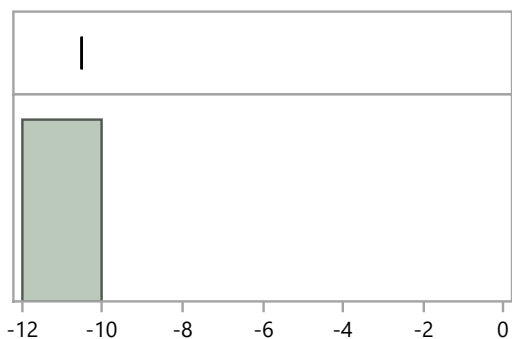
Mean	-3.9
Std Dev	5.1
Std Err Mean	2.6
Upper 95% Mean	4.3
Lower 95% Mean	-12.1
N	4.0

Distributions Analyte_Method=Americium-241 EPA 907, Actinide Elements, 600/4/80-032**Bias****Quantiles**

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

Summary Statistics

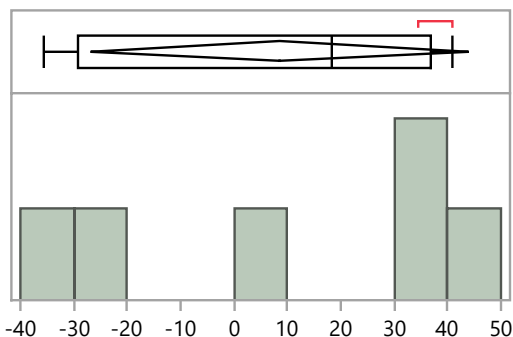
Mean	-13.2
Std Dev	.
Std Err Mean	.
Upper 95% Mean	.
Lower 95% Mean	.
N	1.0

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

100.0%	maximum	-10.5
99.5%		-10.5
97.5%		-10.5
90.0%		-10.5
75.0%	quartile	-10.5
50.0%	median	-10.5
25.0%	quartile	-10.5
10.0%		-10.5
2.5%		-10.5
0.5%		-10.5
0.0%	minimum	-10.5

Summary Statistics

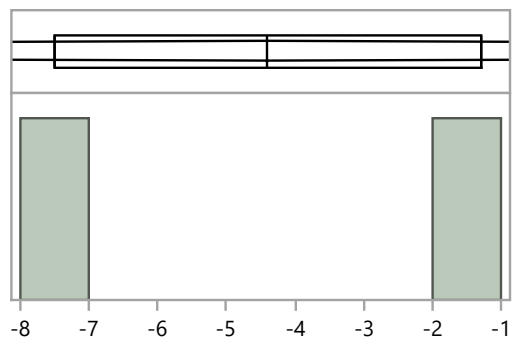
Mean	-10.5
Std Dev	.
Std Err Mean	.
Upper 95% Mean	.
Lower 95% Mean	.
N	1.0

RdV54 Distribution by Preparation Method**Distributions Analyte_Method=Americium-241 No preparation - analyzed as received****Bias****Quantiles**

100.0%	maximum	40.9
99.5%		40.9
97.5%		40.9
90.0%		40.9
75.0%	quartile	36.9
50.0%	median	18.3
25.0%	quartile	-29.1
10.0%		-35.5
2.5%		-35.5
0.5%		-35.5
0.0%	minimum	-35.5

Summary Statistics

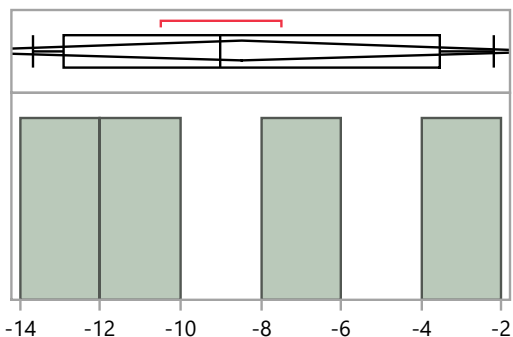
Mean	8.4
Std Dev	33.7
Std Err Mean	13.8
Upper 95% Mean	43.8
Lower 95% Mean	-26.9
N	6.0

Distributions Analyte_Method=Americium-241 Other**Bias****Quantiles**

100.0%	maximum	-1.3
99.5%		-1.3
97.5%		-1.3
90.0%		-1.3
75.0%	quartile	-1.3
50.0%	median	-4.4
25.0%	quartile	-7.5
10.0%		-7.5
2.5%		-7.5
0.5%		-7.5
0.0%	minimum	-7.5

Summary Statistics

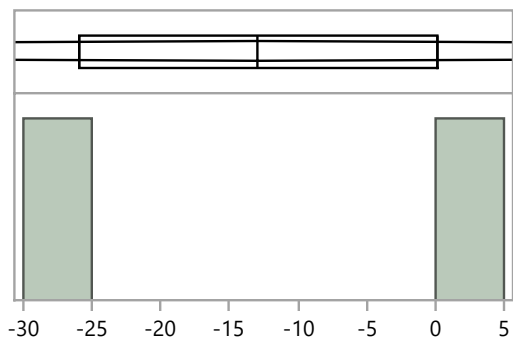
Mean	-4.4
Std Dev	4.4
Std Err Mean	3.1
Upper 95% Mean	35.0
Lower 95% Mean	-43.8
N	2.0

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

100.0%	maximum	-2.2
99.5%		-2.2
97.5%		-2.2
90.0%		-2.2
75.0%	quartile	-3.5
50.0%	median	-9.0
25.0%	quartile	-12.9
10.0%		-13.7
2.5%		-13.7
0.5%		-13.7
0.0%	minimum	-13.7

Summary Statistics

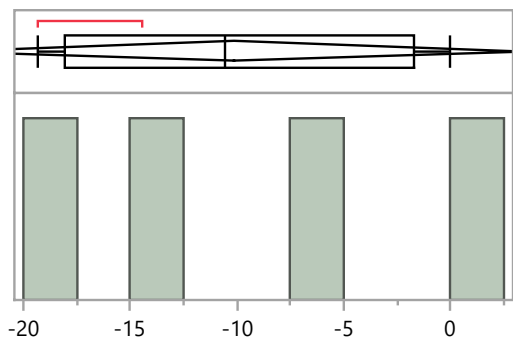
Mean	-8.5
Std Dev	4.9
Std Err Mean	2.4
Upper 95% Mean	-0.7
Lower 95% Mean	-16.3
N	4.0

RdV54 Distribution by Preparation Method**Distributions Analyte_Method=Cesium-134 Acid dissolution with hydrofluoric acid****Bias****Quantiles**

100.0%	maximum	0.1
99.5%		0.1
97.5%		0.1
90.0%		0.1
75.0%	quartile	0.1
50.0%	median	-12.9
25.0%	quartile	-25.9
10.0%		-25.9
2.5%		-25.9
0.5%		-25.9
0.0%	minimum	-25.9

Summary Statistics

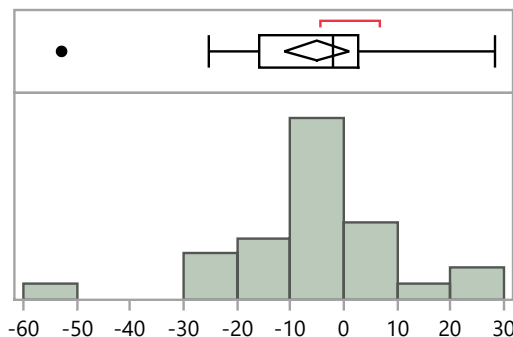
Mean	-12.9
Std Dev	18.4
Std Err Mean	13.0
Upper 95% Mean	152.3
Lower 95% Mean	-178.1
N	2.0

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

100.0%	maximum	0.0
99.5%		0.0
97.5%		0.0
90.0%		0.0
75.0%	quartile	-1.7
50.0%	median	-10.6
25.0%	quartile	-18.1
10.0%		-19.3
2.5%		-19.3
0.5%		-19.3
0.0%	minimum	-19.3

Summary Statistics

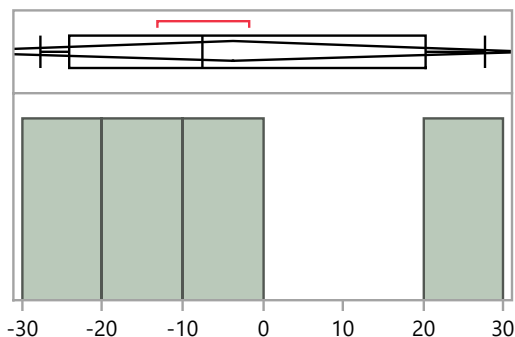
Mean	-10.1
Std Dev	8.5
Std Err Mean	4.2
Upper 95% Mean	3.4
Lower 95% Mean	-23.6
N	4.0

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

100.0%	maximum	28.1
99.5%		28.1
97.5%		28.1
90.0%		13.8
75.0%	quartile	2.7
50.0%	median	-2.0
25.0%	quartile	-15.9
10.0%		-23.7
2.5%		-52.8
0.5%		-52.8
0.0%	minimum	-52.8

Summary Statistics

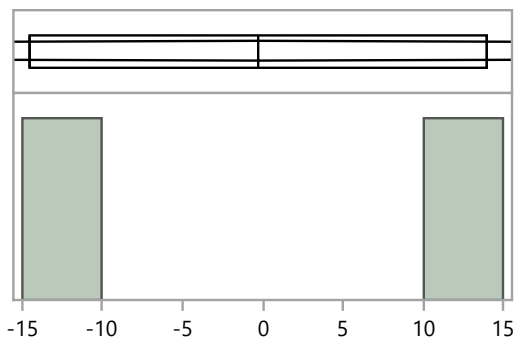
Mean	-5.1
Std Dev	15.5
Std Err Mean	2.9
Upper 95% Mean	0.9
Lower 95% Mean	-11.1
N	28.0

RdV54 Distribution by Preparation Method**Distributions Analyte_Method=Cesium-134 Other****Bias****Quantiles**

100.0%	maximum	27.7
99.5%		27.7
97.5%		27.7
90.0%		27.7
75.0%	quartile	20.4
50.0%	median	-7.5
25.0%	quartile	-24.1
10.0%		-27.7
2.5%		-27.7
0.5%		-27.7
0.0%	minimum	-27.7

Summary Statistics

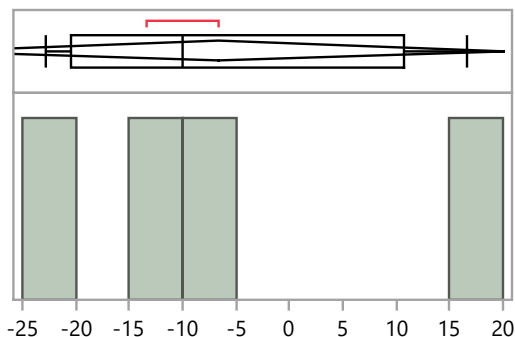
Mean	-3.7
Std Dev	23.5
Std Err Mean	11.7
Upper 95% Mean	33.7
Lower 95% Mean	-41.1
N	4.0

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

100.0%	maximum	14.0
99.5%		14.0
97.5%		14.0
90.0%		14.0
75.0%	quartile	14.0
50.0%	median	-0.3
25.0%	quartile	-14.5
10.0%		-14.5
2.5%		-14.5
0.5%		-14.5
0.0%	minimum	-14.5

Summary Statistics

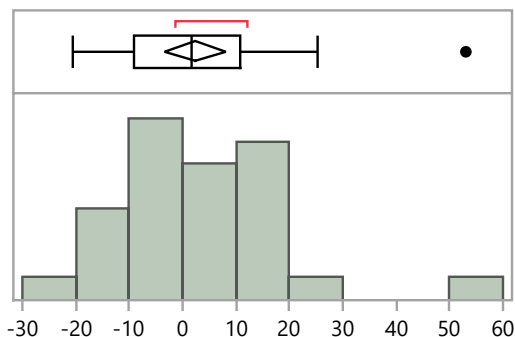
Mean	-0.3
Std Dev	20.2
Std Err Mean	14.3
Upper 95% Mean	180.8
Lower 95% Mean	-181.3
N	2.0

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

100.0%	maximum	16.6
99.5%		16.6
97.5%		16.6
90.0%		16.6
75.0%	quartile	10.8
50.0%	median	-10.1
25.0%	quartile	-20.5
10.0%		-22.8
2.5%		-22.8
0.5%		-22.8
0.0%	minimum	-22.8

Summary Statistics

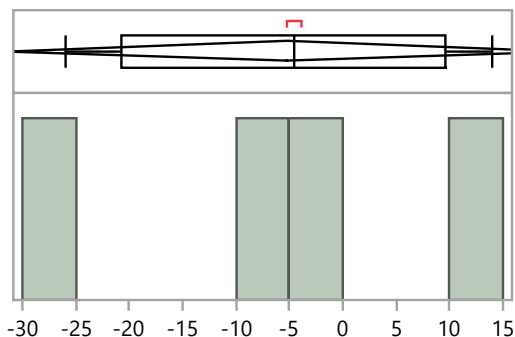
Mean	-6.6
Std Dev	16.8
Std Err Mean	8.4
Upper 95% Mean	20.2
Lower 95% Mean	-33.3
N	4.0

RdV54 Distribution by Preparation Method**Distributions Analyte_Method=Cobalt-57 No preparation - analyzed as received****Bias****Quantiles**

100.0%	maximum	53.0
99.5%		53.0
97.5%		53.0
90.0%		15.6
75.0%	quartile	10.7
50.0%	median	1.7
25.0%	quartile	-9.0
10.0%		-14.6
2.5%		-20.4
0.5%		-20.4
0.0%	minimum	-20.4

Summary Statistics

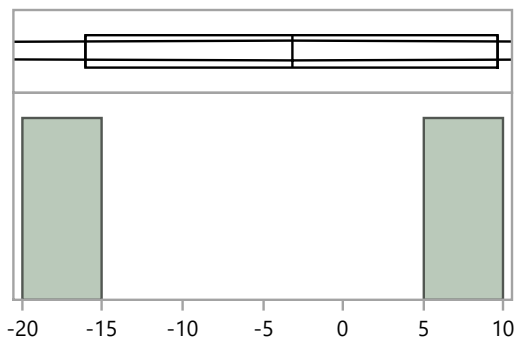
Mean	2.4
Std Dev	14.7
Std Err Mean	2.8
Upper 95% Mean	8.1
Lower 95% Mean	-3.3
N	28.0

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

100.0%	maximum	14.0
99.5%		14.0
97.5%		14.0
90.0%		14.0
75.0%	quartile	9.5
50.0%	median	-4.6
25.0%	quartile	-20.8
10.0%		-25.9
2.5%		-25.9
0.5%		-25.9
0.0%	minimum	-25.9

Summary Statistics

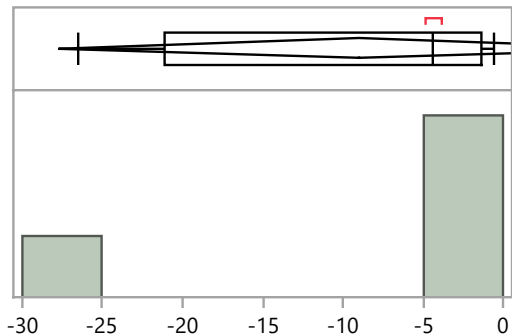
Mean	-5.3
Std Dev	16.3
Std Err Mean	8.2
Upper 95% Mean	20.7
Lower 95% Mean	-31.2
N	4.0

Distributions Analyte_Method=Cobalt-60 Acid dissolution with hydrofluoric acid**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	-3.2
25.0%	quartile	-16.0
10.0%		-16.0
2.5%		-16.0
0.5%		-16.0
0.0%	minimum	-16.0

Summary Statistics

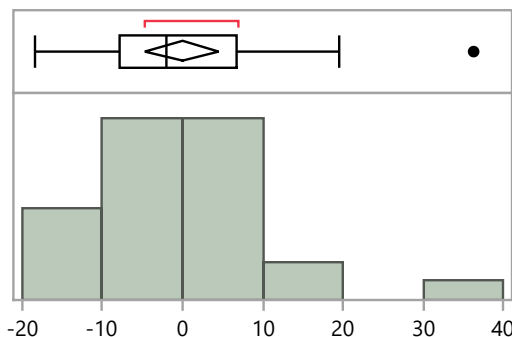
Mean	-3.2
Std Dev	18.1
Std Err Mean	12.8
Upper 95% Mean	159.4
Lower 95% Mean	-165.8
N	2.0

RdV54 Distribution by Preparation Method**Distributions Analyte_Method=Cobalt-60 EPA 901.1, Gamma Emitting, 600/4-80-032****Bias****Quantiles**

100.0%	maximum	-0.6
99.5%		-0.6
97.5%		-0.6
90.0%		-0.6
75.0%	quartile	-1.4
50.0%	median	-4.4
25.0%	quartile	-21.1
10.0%		-26.5
2.5%		-26.5
0.5%		-26.5
0.0%	minimum	-26.5

Summary Statistics

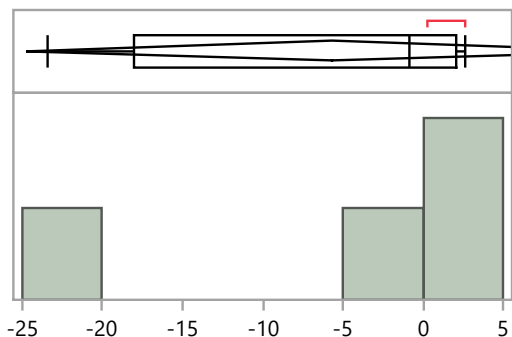
Mean	-9.0
Std Dev	11.8
Std Err Mean	5.9
Upper 95% Mean	9.9
Lower 95% Mean	-27.8
N	4.0

Distributions Analyte_Method=Cobalt-60 No preparation - analyzed as received**Bias****Quantiles**

100.0%	maximum	36.3
99.5%		36.3
97.5%		36.3
90.0%		18.2
75.0%	quartile	6.7
50.0%	median	-2.1
25.0%	quartile	-7.9
10.0%		-16.8
2.5%		-18.3
0.5%		-18.3
0.0%	minimum	-18.3

Summary Statistics

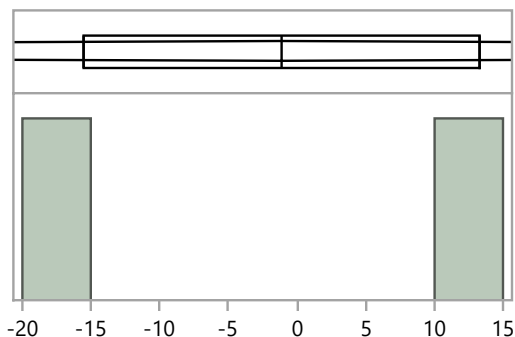
Mean	-0.1
Std Dev	11.9
Std Err Mean	2.3
Upper 95% Mean	4.5
Lower 95% Mean	-4.7
N	28.0

Distributions Analyte_Method=Cobalt-60 Other**Bias****Quantiles**

100.0%	maximum	2.6
99.5%		2.6
97.5%		2.6
90.0%		2.6
75.0%	quartile	2.0
50.0%	median	-0.9
25.0%	quartile	-18.1
10.0%		-23.4
2.5%		-23.4
0.5%		-23.4
0.0%	minimum	-23.4

Summary Statistics

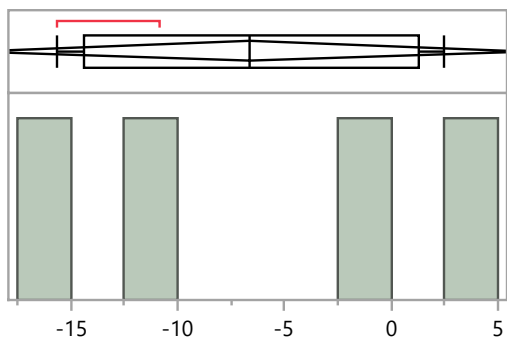
Mean	-5.7
Std Dev	12.0
Std Err Mean	6.0
Upper 95% Mean	13.4
Lower 95% Mean	-24.7
N	4.0

RdV54 Distribution by Preparation Method**Distributions Analyte_Method=Manganese-54 Acid dissolution with hydrofluoric acid****Bias****Quantiles**

100.0%	maximum	13.3
99.5%		13.3
97.5%		13.3
90.0%		13.3
75.0%	quartile	13.3
50.0%	median	-1.1
25.0%	quartile	-15.5
10.0%		-15.5
2.5%		-15.5
0.5%		-15.5
0.0%	minimum	-15.5

Summary Statistics

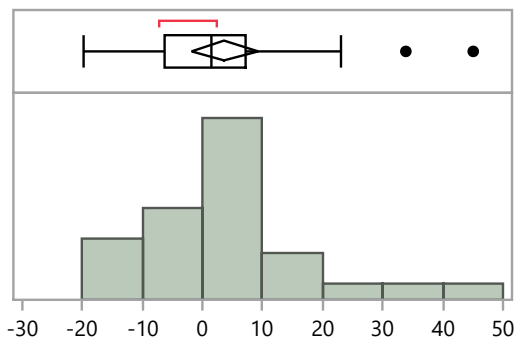
Mean	-1.1
Std Dev	20.4
Std Err Mean	14.4
Upper 95% Mean	181.9
Lower 95% Mean	-184.1
N	2.0

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

100.0%	maximum	2.5
99.5%		2.5
97.5%		2.5
90.0%		2.5
75.0%	quartile	1.3
50.0%	median	-6.7
25.0%	quartile	-14.4
10.0%		-15.6
2.5%		-15.6
0.5%		-15.6
0.0%	minimum	-15.6

Summary Statistics

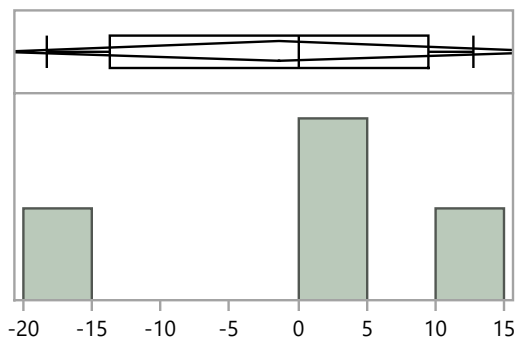
Mean	-6.6
Std Dev	8.1
Std Err Mean	4.1
Upper 95% Mean	6.3
Lower 95% Mean	-19.5
N	4.0

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

100.0%	maximum	45.0
99.5%		45.0
97.5%		45.0
90.0%		24.1
75.0%	quartile	7.3
50.0%	median	1.6
25.0%	quartile	-6.4
10.0%		-12.1
2.5%		-19.8
0.5%		-19.8
0.0%	minimum	-19.8

Summary Statistics

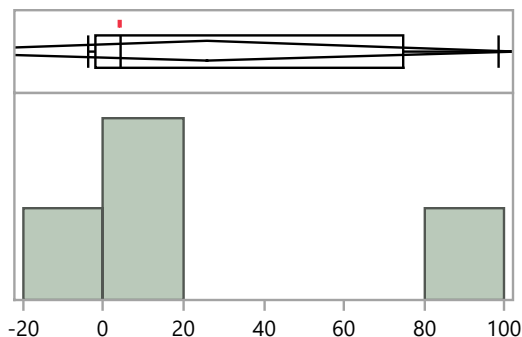
Mean	3.6
Std Dev	14.3
Std Err Mean	2.7
Upper 95% Mean	9.2
Lower 95% Mean	-1.9
N	28.0

RdV54 Distribution by Preparation Method**Distributions Analyte_Method=Manganese-54 Other****Bias****Quantiles**

100.0%	maximum	12.7
99.5%		12.7
97.5%		12.7
90.0%		12.7
75.0%	quartile	9.5
50.0%	median	0.0
25.0%	quartile	-13.7
10.0%		-18.3
2.5%		-18.3
0.5%		-18.3
0.0%	minimum	-18.3

Summary Statistics

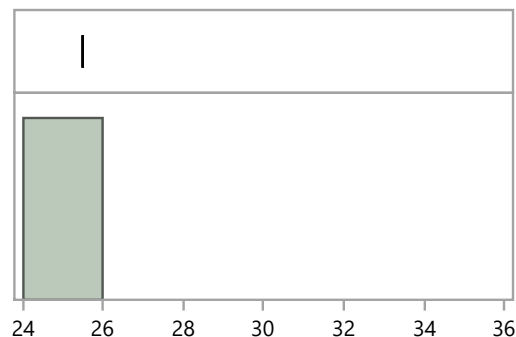
Mean	-1.4
Std Dev	12.8
Std Err Mean	6.4
Upper 95% Mean	18.9
Lower 95% Mean	-21.7
N	4.0

Distributions Analyte_Method=Plutonium-238 Acid dissolution with hydrofluoric acid**Bias****Quantiles**

100.0%	maximum	98.5
99.5%		98.5
97.5%		98.5
90.0%		98.5
75.0%	quartile	75.0
50.0%	median	4.2
25.0%	quartile	-1.9
10.0%		-3.8
2.5%		-3.8
0.5%		-3.8
0.0%	minimum	-3.8

Summary Statistics

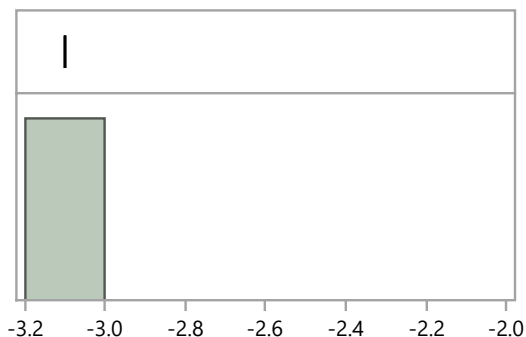
Mean	25.8
Std Dev	48.6
Std Err Mean	24.3
Upper 95% Mean	103.2
Lower 95% Mean	-51.7
N	4.0

Distributions Analyte_Method=Plutonium-238 Acid leaching without hydrofluoric acid**Bias****Quantiles**

100.0%	maximum	25.5
99.5%		25.5
97.5%		25.5
90.0%		25.5
75.0%	quartile	25.5
50.0%	median	25.5
25.0%	quartile	25.5
10.0%		25.5
2.5%		25.5
0.5%		25.5
0.0%	minimum	25.5

Summary Statistics

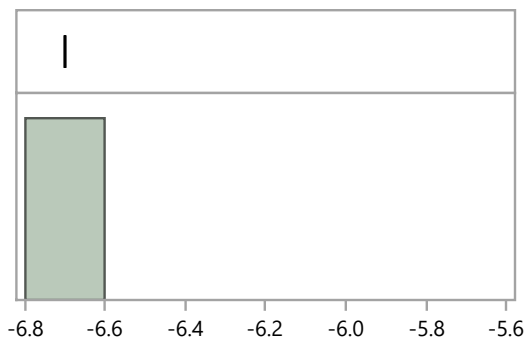
Mean	25.5
Std Dev	.
Std Err Mean	.
Upper 95% Mean	.
Lower 95% Mean	.
N	1.0

RdV54 Distribution by Preparation Method**Distributions Analyte_Method=Plutonium-238 EPA 907, Actinide Elements, 600/4/80-032****Bias****Quantiles**

100.0%	maximum	-3.1
99.5%		-3.1
97.5%		-3.1
90.0%		-3.1
75.0%	quartile	-3.1
50.0%	median	-3.1
25.0%	quartile	-3.1
10.0%		-3.1
2.5%		-3.1
0.5%		-3.1
0.0%	minimum	-3.1

Summary Statistics

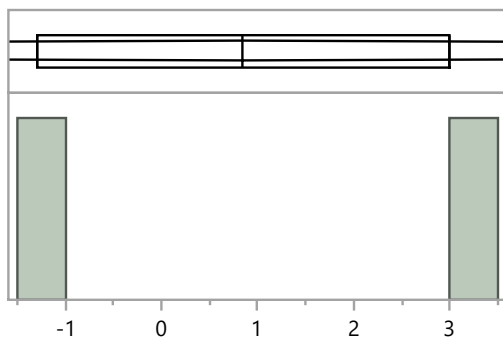
Mean	-3.1
Std Dev	.
Std Err Mean	.
Upper 95% Mean	.
Lower 95% Mean	.
N	1.0

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

100.0%	maximum	-6.7
99.5%		-6.7
97.5%		-6.7
90.0%		-6.7
75.0%	quartile	-6.7
50.0%	median	-6.7
25.0%	quartile	-6.7
10.0%		-6.7
2.5%		-6.7
0.5%		-6.7
0.0%	minimum	-6.7

Summary Statistics

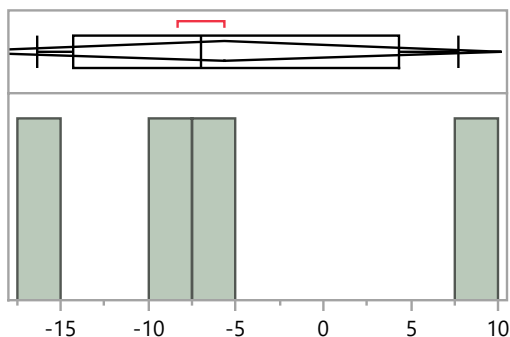
Mean	-6.7
Std Dev	.
Std Err Mean	.
Upper 95% Mean	.
Lower 95% Mean	.
N	1.0

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

100.0%	maximum	3.0
99.5%		3.0
97.5%		3.0
90.0%		3.0
75.0%	quartile	3.0
50.0%	median	0.9
25.0%	quartile	-1.3
10.0%		-1.3
2.5%		-1.3
0.5%		-1.3
0.0%	minimum	-1.3

Summary Statistics

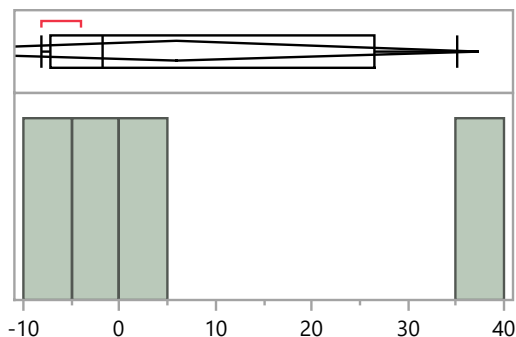
Mean	0.9
Std Dev	3.0
Std Err Mean	2.2
Upper 95% Mean	28.2
Lower 95% Mean	-26.5
N	2.0

RdV54 Distribution by Preparation Method**Distributions Analyte_Method=Plutonium-238 Total dissolution by fusion****Bias****Quantiles**

100.0%	maximum	7.7
99.5%		7.7
97.5%		7.7
90.0%		7.7
75.0%	quartile	4.4
50.0%	median	-7.0
25.0%	quartile	-14.3
10.0%		-16.3
2.5%		-16.3
0.5%		-16.3
0.0%	minimum	-16.3

Summary Statistics

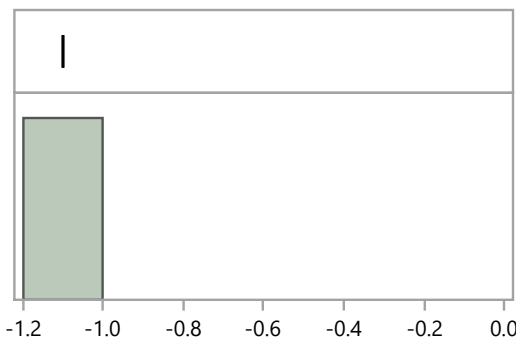
Mean	-5.7
Std Dev	10.0
Std Err Mean	5.0
Upper 95% Mean	10.2
Lower 95% Mean	-21.5
N	4.0

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

100.0%	maximum	35.1
99.5%		35.1
97.5%		35.1
90.0%		35.1
75.0%	quartile	26.4
50.0%	median	-1.8
25.0%	quartile	-7.1
10.0%		-8.1
2.5%		-8.1
0.5%		-8.1
0.0%	minimum	-8.1

Summary Statistics

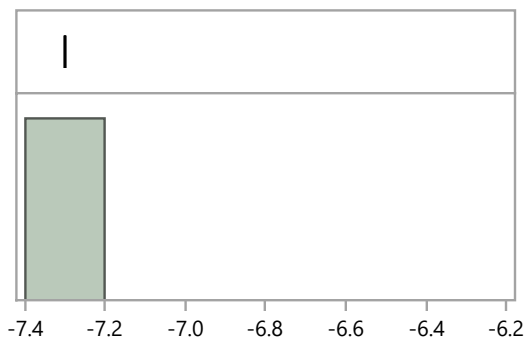
Mean	5.9
Std Dev	19.8
Std Err Mean	9.9
Upper 95% Mean	37.4
Lower 95% Mean	-25.7
N	4.0

Distributions Analyte_Method=Plutonium-239/240 Acid leaching without hydrofluoric acid**Bias****Quantiles**

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

Summary Statistics

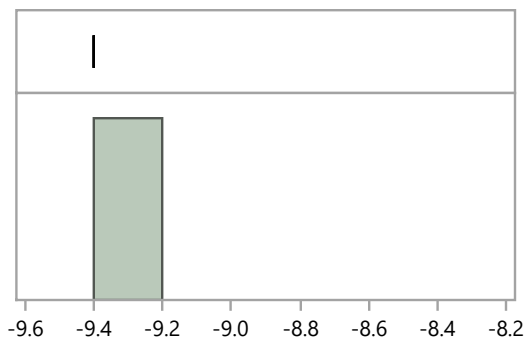
Mean	-1.1
Std Dev	.
Std Err Mean	.
Upper 95% Mean	.
Lower 95% Mean	.
N	1.0

RdV54 Distribution by Preparation Method**Distributions Analyte_Method=Plutonium-239/240 EPA 907, Actinide Elements, 600/4/80-032****Bias****Quantiles**

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

Summary Statistics

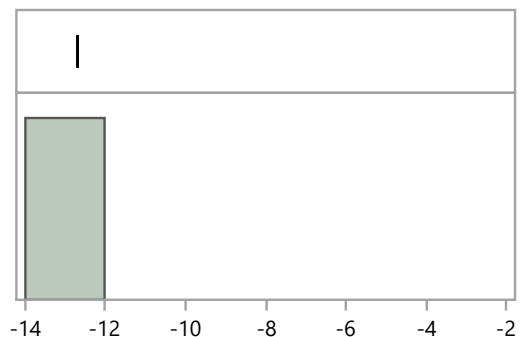
Mean	-7.3
Std Dev	.
Std Err Mean	.
Upper 95% Mean	.
Lower 95% Mean	.
N	1.0

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

100.0%	maximum	-9.4
99.5%		-9.4
97.5%		-9.4
90.0%		-9.4
75.0%	quartile	-9.4
50.0%	median	-9.4
25.0%	quartile	-9.4
10.0%		-9.4
2.5%		-9.4
0.5%		-9.4
0.0%	minimum	-9.4

Summary Statistics

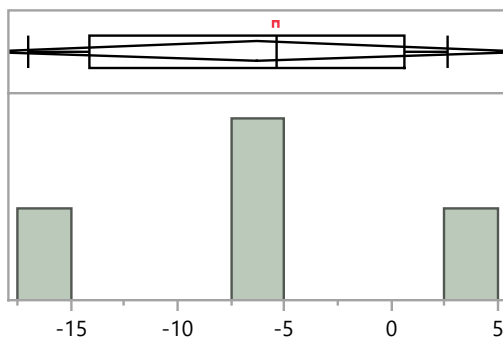
Mean	-9.4
Std Dev	.
Std Err Mean	.
Upper 95% Mean	.
Lower 95% Mean	.
N	1.0

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

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

Summary Statistics

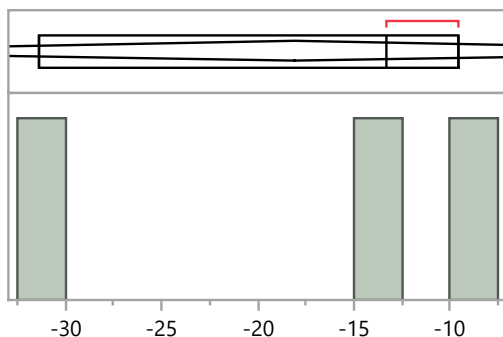
Mean	-12.7
Std Dev	.
Std Err Mean	.
Upper 95% Mean	.
Lower 95% Mean	.
N	1.0

RdV54 Distribution by Preparation Method**Distributions Analyte_Method=Plutonium-239/240 Total dissolution by fusion****Bias****Quantiles**

100.0%	maximum	2.6
99.5%		2.6
97.5%		2.6
90.0%		2.6
75.0%	quartile	0.6
50.0%	median	-5.4
25.0%	quartile	-14.1
10.0%		-17.0
2.5%		-17.0
0.5%		-17.0
0.0%	minimum	-17.0

Summary Statistics

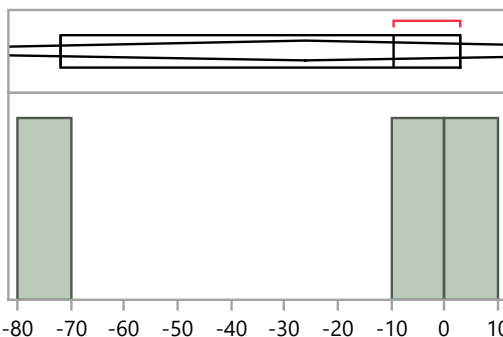
Mean	-6.3
Std Dev	8.1
Std Err Mean	4.0
Upper 95% Mean	6.5
Lower 95% Mean	-19.1
N	4.0

Distributions Analyte_Method=Strontium-90 Acid dissolution with hydrofluoric acid**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	-13.3
25.0%	quartile	-31.4
10.0%		-31.4
2.5%		-31.4
0.5%		-31.4
0.0%	minimum	-31.4

Summary Statistics

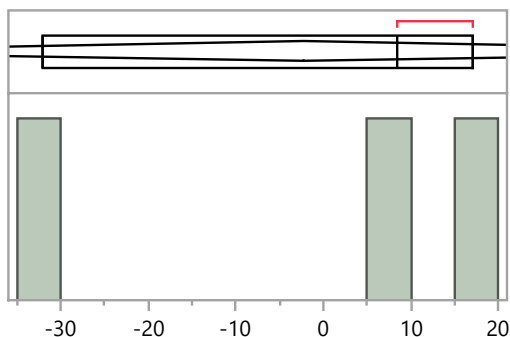
Mean	-18.1
Std Dev	11.7
Std Err Mean	6.7
Upper 95% Mean	10.9
Lower 95% Mean	-47.1
N	3.0

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

100.0%	maximum	2.8
99.5%		2.8
97.5%		2.8
90.0%		2.8
75.0%	quartile	2.8
50.0%	median	-9.6
25.0%	quartile	-71.8
10.0%		-71.8
2.5%		-71.8
0.5%		-71.8
0.0%	minimum	-71.8

Summary Statistics

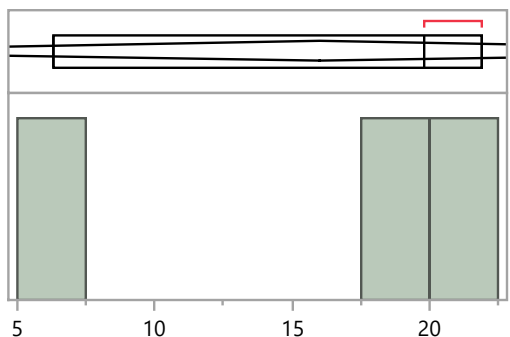
Mean	-26.2
Std Dev	40.0
Std Err Mean	23.1
Upper 95% Mean	73.1
Lower 95% Mean	-125.5
N	3.0

RdV54 Distribution by Preparation Method**Distributions Analyte_Method=Strontium-90 EPA 905, Radioactive Strontium, 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	8.5
25.0%	quartile	-32.0
10.0%		-32.0
2.5%		-32.0
0.5%		-32.0
0.0%	minimum	-32.0

Summary Statistics

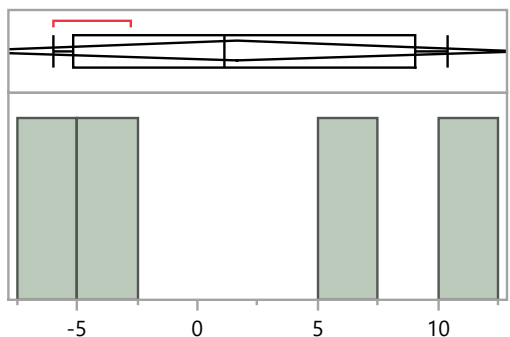
Mean	-2.2
Std Dev	26.2
Std Err Mean	15.1
Upper 95% Mean	62.9
Lower 95% Mean	-67.2
N	3.0

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

100.0%	maximum	21.9
99.5%		21.9
97.5%		21.9
90.0%		21.9
75.0%	quartile	21.9
50.0%	median	19.8
25.0%	quartile	6.3
10.0%		6.3
2.5%		6.3
0.5%		6.3
0.0%	minimum	6.3

Summary Statistics

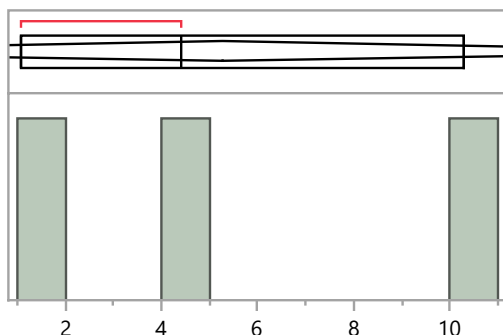
Mean	16.0
Std Dev	8.5
Std Err Mean	4.9
Upper 95% Mean	37.0
Lower 95% Mean	-5.0
N	3.0

Distributions Analyte_Method=Strontium-90 Total dissolution by fusion**Bias****Quantiles**

100.0%	maximum	10.4
99.5%		10.4
97.5%		10.4
90.0%		10.4
75.0%	quartile	9.1
50.0%	median	1.2
25.0%	quartile	-5.2
10.0%		-6.0
2.5%		-6.0
0.5%		-6.0
0.0%	minimum	-6.0

Summary Statistics

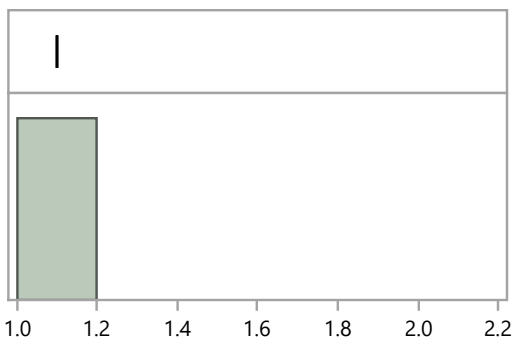
Mean	1.7
Std Dev	7.5
Std Err Mean	3.7
Upper 95% Mean	13.5
Lower 95% Mean	-10.2
N	4.0

RdV54 Distribution by Preparation Method**Distributions Analyte_Method=Uranium-234 Acid dissolution with hydrofluoric acid****Bias****Quantiles**

100.0%	maximum	10.3
99.5%		10.3
97.5%		10.3
90.0%		10.3
75.0%	quartile	10.3
50.0%	median	4.4
25.0%	quartile	1.1
10.0%		1.1
2.5%		1.1
0.5%		1.1
0.0%	minimum	1.1

Summary Statistics

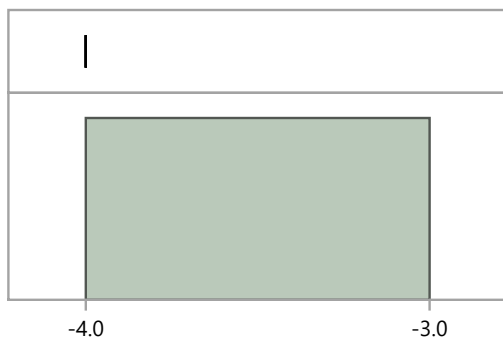
Mean	5.3
Std Dev	4.7
Std Err Mean	2.7
Upper 95% Mean	16.8
Lower 95% Mean	-6.3
N	3.0

Distributions Analyte_Method=Uranium-234 EPA 908, Uranium-Radiochemical Method, 600/4/80-032**Bias****Quantiles**

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

Summary Statistics

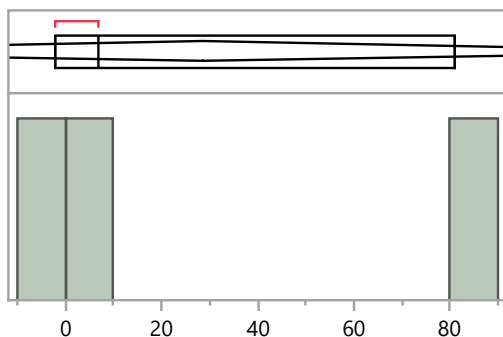
Mean	1.1
Std Dev	.
Std Err Mean	.
Upper 95% Mean	.
Lower 95% Mean	.
N	1.0

Distributions Analyte_Method=Uranium-234 Evaporation, acidified**Bias****Quantiles**

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

Summary Statistics

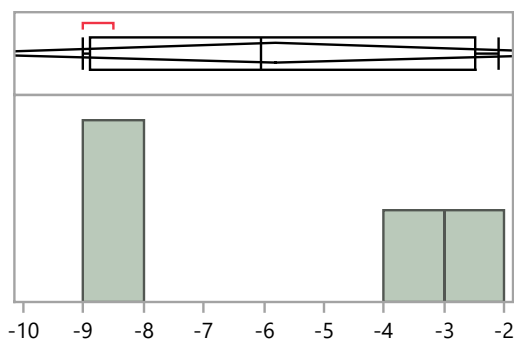
Mean	-4.0
Std Dev	.
Std Err Mean	.
Upper 95% Mean	.
Lower 95% Mean	.
N	1.0

RdV54 Distribution by Preparation Method**Distributions Analyte_Method=Uranium-234 Other****Bias****Quantiles**

100.0%	maximum	80.9
99.5%		80.9
97.5%		80.9
90.0%		80.9
75.0%	quartile	80.9
50.0%	median	6.9
25.0%	quartile	-2.2
10.0%		-2.2
2.5%		-2.2
0.5%		-2.2
0.0%	minimum	-2.2

Summary Statistics

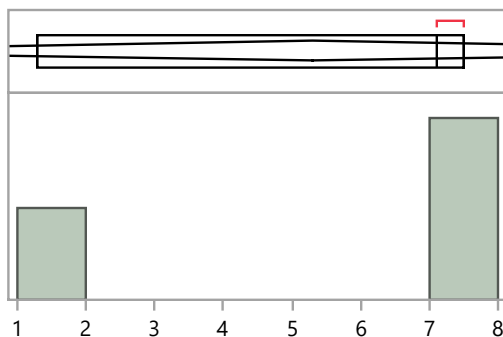
Mean	28.5
Std Dev	45.6
Std Err Mean	26.3
Upper 95% Mean	141.8
Lower 95% Mean	-84.7
N	3.0

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

100.0%	maximum	-2.1
99.5%		-2.1
97.5%		-2.1
90.0%		-2.1
75.0%	quartile	-2.5
50.0%	median	-6.1
25.0%	quartile	-8.9
10.0%		-9.0
2.5%		-9.0
0.5%		-9.0
0.0%	minimum	-9.0

Summary Statistics

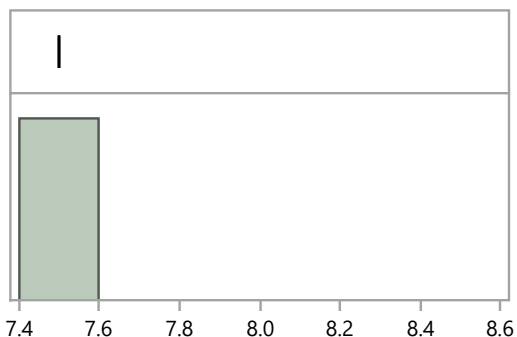
Mean	-5.8
Std Dev	3.5
Std Err Mean	1.7
Upper 95% Mean	-0.3
Lower 95% Mean	-11.3
N	4.0

Distributions Analyte_Method=Uranium-238 Acid dissolution with hydrofluoric acid**Bias****Quantiles**

100.0%	maximum	7.5
99.5%		7.5
97.5%		7.5
90.0%		7.5
75.0%	quartile	7.5
50.0%	median	7.1
25.0%	quartile	1.3
10.0%		1.3
2.5%		1.3
0.5%		1.3
0.0%	minimum	1.3

Summary Statistics

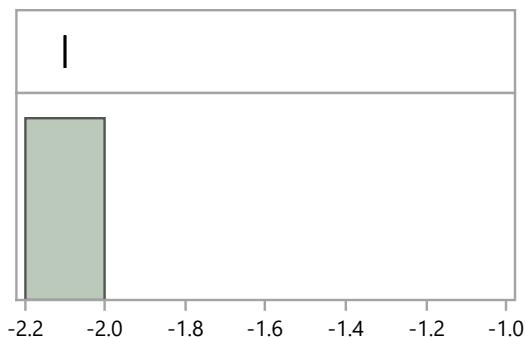
Mean	5.3
Std Dev	3.5
Std Err Mean	2.0
Upper 95% Mean	13.9
Lower 95% Mean	-3.3
N	3.0

RdV54 Distribution by Preparation Method**Distributions Analyte_Method=Uranium-238 EPA 908, Uranium-Radiochemical Method, 600/4/80-032****Bias****Quantiles**

100.0%	maximum	7.5
99.5%		7.5
97.5%		7.5
90.0%		7.5
75.0%	quartile	7.5
50.0%	median	7.5
25.0%	quartile	7.5
10.0%		7.5
2.5%		7.5
0.5%		7.5
0.0%	minimum	7.5

Summary Statistics

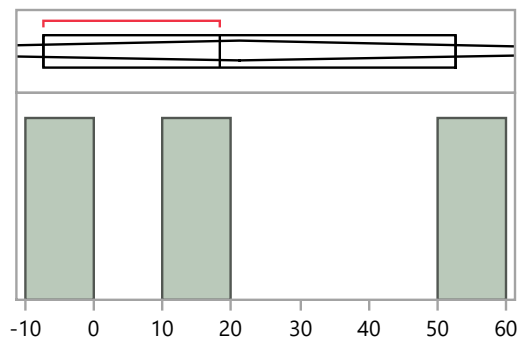
Mean	7.5
Std Dev	.
Std Err Mean	.
Upper 95% Mean	.
Lower 95% Mean	.
N	1.0

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

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

Summary Statistics

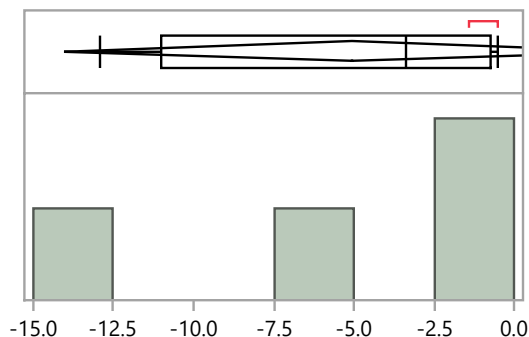
Mean	-2.1
Std Dev	.
Std Err Mean	.
Upper 95% Mean	.
Lower 95% Mean	.
N	1.0

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

100.0%	maximum	52.7
99.5%		52.7
97.5%		52.7
90.0%		52.7
75.0%	quartile	52.7
50.0%	median	18.3
25.0%	quartile	-7.3
10.0%		-7.3
2.5%		-7.3
0.5%		-7.3
0.0%	minimum	-7.3

Summary Statistics

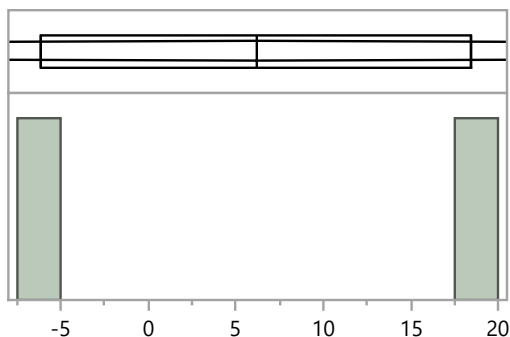
Mean	21.2
Std Dev	30.1
Std Err Mean	17.4
Upper 95% Mean	96.0
Lower 95% Mean	-53.6
N	3.0

RdV54 Distribution by Preparation Method**Distributions Analyte_Method=Uranium-238 Total dissolution by fusion****Bias****Quantiles**

100.0%	maximum	-0.5
99.5%		-0.5
97.5%		-0.5
90.0%		-0.5
75.0%	quartile	-0.7
50.0%	median	-3.4
25.0%	quartile	-11.0
10.0%		-12.9
2.5%		-12.9
0.5%		-12.9
0.0%	minimum	-12.9

Summary Statistics

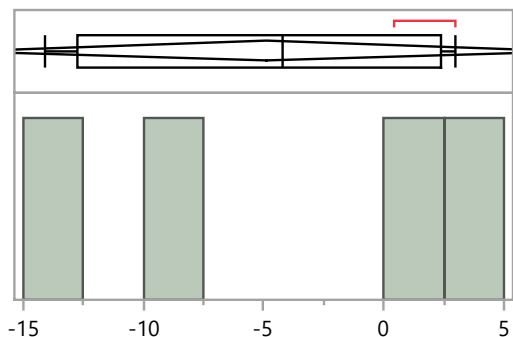
Mean	-5.1
Std Dev	5.7
Std Err Mean	2.8
Upper 95% Mean	3.9
Lower 95% Mean	-14.0
N	4.0

Distributions Analyte_Method=Zinc-65 Acid dissolution with hydrofluoric acid**Bias****Quantiles**

100.0%	maximum	18.4
99.5%		18.4
97.5%		18.4
90.0%		18.4
75.0%	quartile	18.4
50.0%	median	6.2
25.0%	quartile	-6.1
10.0%		-6.1
2.5%		-6.1
0.5%		-6.1
0.0%	minimum	-6.1

Summary Statistics

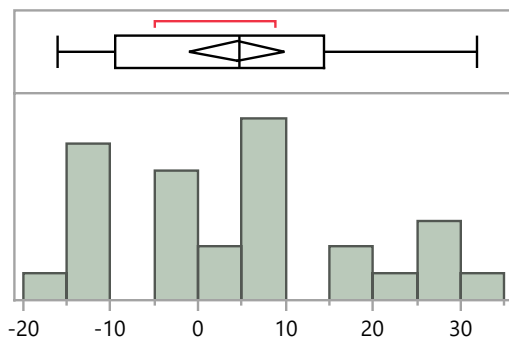
Mean	6.2
Std Dev	17.3
Std Err Mean	12.3
Upper 95% Mean	161.8
Lower 95% Mean	-149.5
N	2.0

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

100.0%	maximum	3.0
99.5%		3.0
97.5%		3.0
90.0%		3.0
75.0%	quartile	2.4
50.0%	median	-4.2
25.0%	quartile	-12.8
10.0%		-14.1
2.5%		-14.1
0.5%		-14.1
0.0%	minimum	-14.1

Summary Statistics

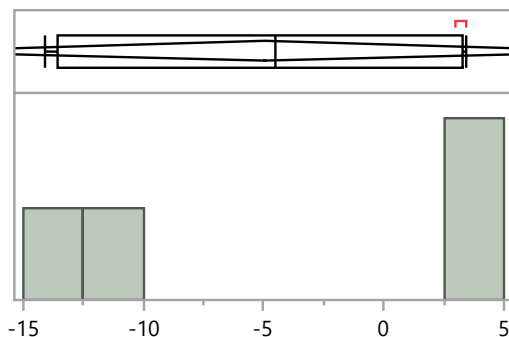
Mean	-4.9
Std Dev	8.0
Std Err Mean	4.0
Upper 95% Mean	7.8
Lower 95% Mean	-17.5
N	4.0

RdV54 Distribution by Preparation Method**Distributions Analyte_Method=Zinc-65 No preparation - analyzed as received****Bias****Quantiles**

100.0%	maximum	31.8
99.5%		31.8
97.5%		31.8
90.0%		27.1
75.0%	quartile	14.4
50.0%	median	4.8
25.0%	quartile	-9.5
10.0%		-12.3
2.5%		-16.1
0.5%		-16.1
0.0%	minimum	-16.1

Summary Statistics

Mean	4.5
Std Dev	14.1
Std Err Mean	2.7
Upper 95% Mean	9.9
Lower 95% Mean	-1.0
N	28.0

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

100.0%	maximum	3.4
99.5%		3.4
97.5%		3.4
90.0%		3.4
75.0%	quartile	3.3
50.0%	median	-4.6
25.0%	quartile	-13.6
10.0%		-14.1
2.5%		-14.1
0.5%		-14.1
0.0%	minimum	-14.1

Summary Statistics

Mean	-5.0
Std Dev	9.4
Std Err Mean	4.7
Upper 95% Mean	10.1
Lower 95% Mean	-20.0
N	4.0