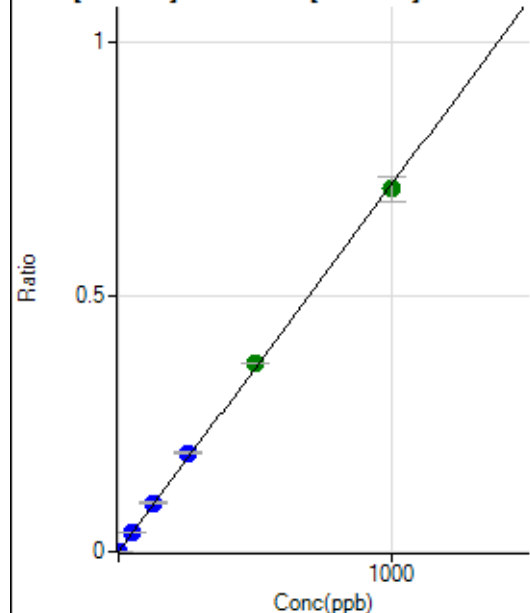


Batch Folder: D:\Agilent\ICPMH\1\DATA\P7032323-MS.b\
Analysis File: P7032323-MS.batch.bin
DA Date-Time: 2023-03-23 23:35:37
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	005CALB.d	S00	2023-03-23 12:54:57
2	007CAL.S.d	S02	2023-03-23 13:01:29
3	008CAL.S.d	S03	2023-03-23 13:04:46
4	009CAL.S.d	S04	2023-03-23 13:07:44
5	010CAL.S.d	S05	2023-03-23 13:10:37
6	011CAL.S.d	S06	2023-03-23 13:13:23
7	012CAL.S.d	S07	2023-03-23 13:16:10
8	013CAL.S.d	S08	2023-03-23 13:18:55

9 Be [No Gas] ISTD:6 Li [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	115.56	0.0000	P	18.4
2	☐	1.000	1.114	3050.33	0.0008	P	4.6
3	☐	50.000	52.722	145613.36	0.0380	P	4.2
4	☐	125.000	131.990	353498.23	0.0950	P	4.0
5	☐	250.000	267.971	694942.26	0.1928	P	1.7
6	☐	500.000	512.424	1326761.76	0.3687	A	0.5
7	☐	1000.000	988.285	2578081.26	0.7110	A	6.6
8	☐			1326.74	0.0004	P	31.1

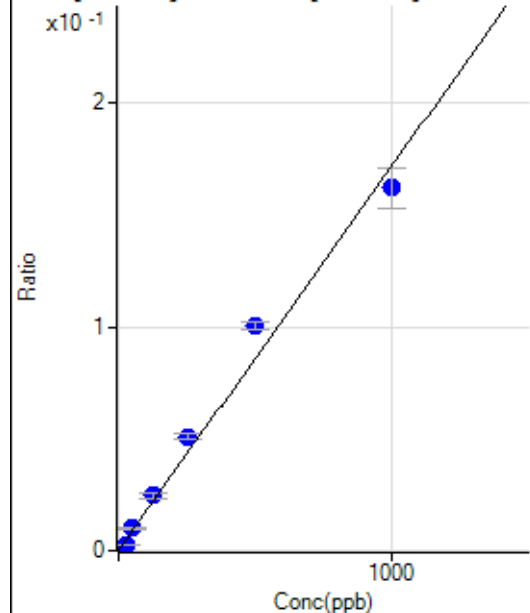
$$y = 7.1938\text{E-}004 * x + 3.1265\text{E-}005$$

$$R = 0.9997$$

$$DL = 0.02401$$

Weight: <None>

Min Conc: 0

10 B [No Gas] ISTD:6 Li [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	713.36	0.0002	P	6.6
2	☐	25.000	15.723	10605.94	0.0029	P	2.1
3	☐	50.000	57.129	38286.33	0.0100	P	9.7
4	☐	125.000	142.253	91436.13	0.0246	P	9.2
5	☐	250.000	295.905	183553.18	0.0509	P	5.2
6	☐	500.000	583.734	361037.07	0.1003	P	3.3
7	☐	1000.000	944.376	586959.15	0.1621	P	11.1
8	☐			20829.85	0.0068	P	12.9

$$y = 1.7149\text{E-}004 * x + 1.9301\text{E-}004$$

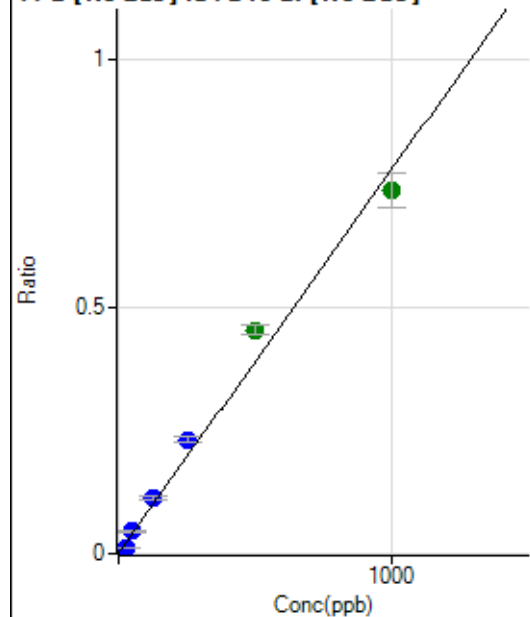
$$R = 0.9928$$

$$DL = 0.2242$$

Weight: <None>

Min Conc: 0

11 B [No Gas] ISTD:6 Li [No Gas]



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	3527.11	0.0010	P	2.1
2	☐	25.000	15.815	48587.23	0.0132	P	2.2
3	☐	50.000	57.518	174881.48	0.0456	P	8.7
4	☐	125.000	143.124	417088.82	0.1121	P	6.4
5	☐	250.000	296.604	833481.21	0.2313	P	5.8
6	☐	500.000	581.809	1630016.71	0.4528	A	4.1
7	☐	1000.000	945.033	2662039.87	0.7349	A	9.4
8	☐			96179.72	0.0313	P	11.4

$$y = 7.7664E-004 * x + 9.5438E-004$$

$$R = 0.9930$$

$$DL = 0.07813$$

Weight: <None>

Min Conc: 0

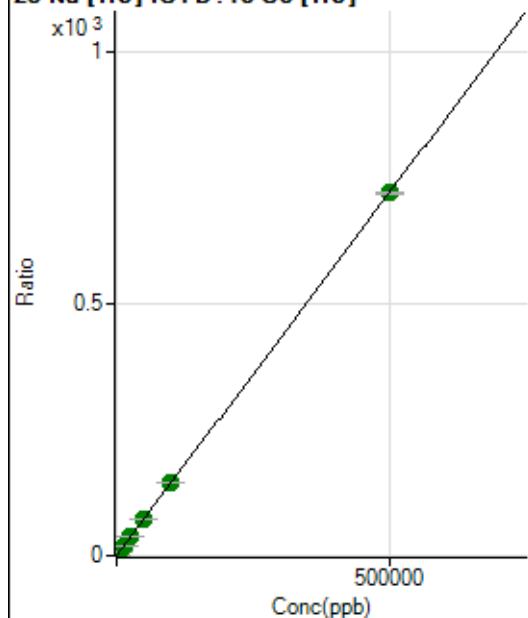
12 C [No Gas] No available calibration points



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐						
2	☐						
3	☐						
4	☐						
5	☐						
6	☐						
7	☐						
8	☐						

12 C [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐						
2	☐						
3	☐						
4	☐						
5	☐						
6	☐						
7	☐						
8	☐						

23 Na [He] ISTD:45 Sc [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	30310.98	0.0527	P	1.3
2	☐	500.000	516.735	465654.50	0.7985	P	0.4
3	☐	5000.000	5178.619	4369108.30	7.5272	A	2.3
4	☐	12500.000	12850.378	10510722.00	18.6001	A	0.8
5	☐	25000.000	25716.427	21075880.94	37.1700	A	0.6
6	☐	50000.000	51135.227	41264732.16	73.8577	A	0.8
7	☐	100000.00	101019.08	82084047.11	145.8566	A	1.6
8	☐	500000.00	499636.27	381512843.2	721.1930	A	0.8

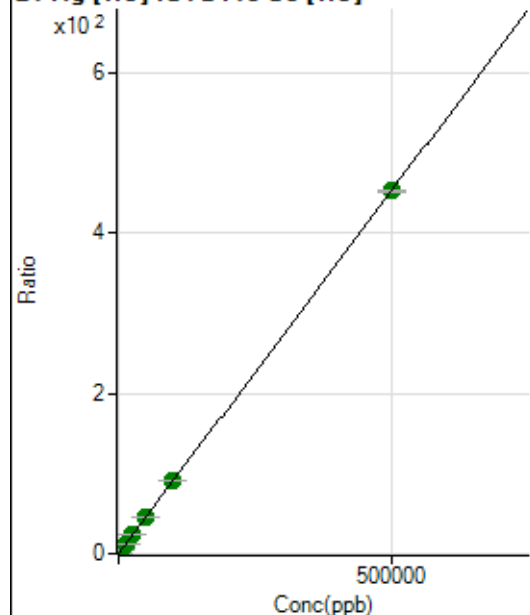
$$y = 0.0014 * x + 0.0527$$

$$R = 1.0000$$

$$DL = 1.432$$

Weight: <None>

Min Conc: 0

24 Mg [He] ISTD:45 Sc [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	617.80	0.0011	P	7.0
2	☐	500.000	513.771	271696.62	0.4659	P	0.6
3	☐	5000.000	5236.529	2750913.43	4.7389	A	1.0
4	☐	12500.000	12995.545	6645140.25	11.7590	A	0.8
5	☐	25000.000	25748.991	13209847.58	23.2978	A	1.0
6	☐	50000.000	50876.833	25718698.23	46.0326	A	0.9
7	☐	100000.00	99718.328	50773584.80	90.2226	A	0.2
8	☐	500000.00	499916.43	239279158.6	452.3073	A	0.5

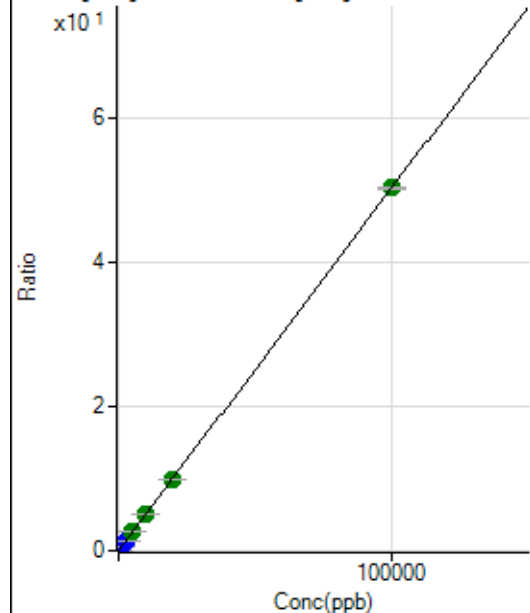
$$y = 9.0476\text{E-}004 * x + 0.0011$$

$$R = 1.0000$$

$$DL = 0.2497$$

Weight: <None>

Min Conc: 0

27 Al [He] ISTD:45 Sc [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	187.78	0.0003	P	7.2
2	☐	20.000	20.629	6240.21	0.0107	P	3.1
3	☐	1000.000	1176.945	343754.22	0.5921	P	0.3
4	☐	2500.000	2565.964	729302.66	1.2906	P	0.8
5	☐	5000.000	5133.391	1463811.45	2.5816	A	0.7
6	☐	10000.000	9965.369	2799847.11	5.0113	A	0.8
7	☐	20000.000	19468.494	5509338.81	9.7898	A	0.5
8	☐	100000.00	100099.67	26628344.88	50.3344	A	0.6

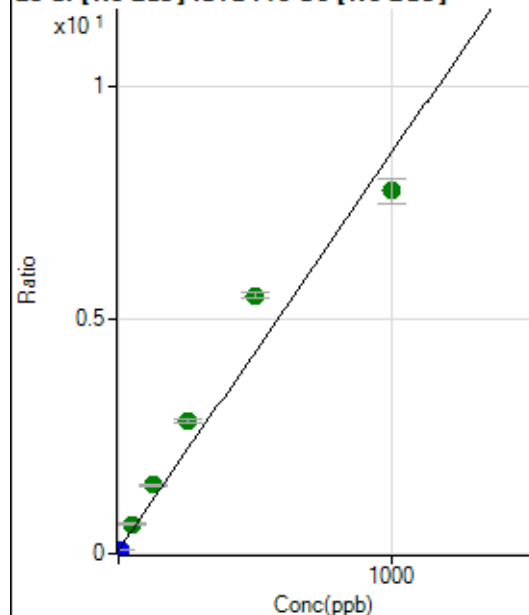
$$y = 5.0284\text{E-}004 * x + 3.2663\text{E-}004$$

$$R = 1.0000$$

$$DL = 0.1397$$

Weight: <None>

Min Conc: 0

28 Si [No Gas] ISTD : 45 Sc [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	498702.92	0.0697	P	1.5
2	☐	10.000	1.675	597213.41	0.0839	P	1.7
3	☐	50.000	65.731	4696290.24	0.6279	A	8.6
4	☐	125.000	164.159	10506775.82	1.4639	A	3.0
5	☐	250.000	323.964	19894636.78	2.8211	A	2.8
6	☐	500.000	641.695	39048710.81	5.5196	A	2.0
7	☐	1000.000	905.063	56175150.83	7.7564	A	7.0
8	☐			1249572.80	0.1940	A	4.0

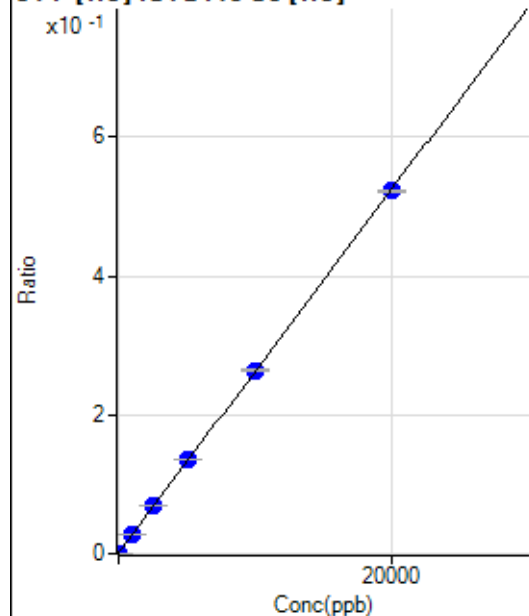
$$y = 0.0085 * x + 0.0697$$

$$R = 0.9796$$

$$DL = 0.377$$

Weight: <None>

Min Conc: 0

31 P [He] ISTD : 45 Sc [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	-10.068	447.79	0.0008	P	0.7
2	☐	0.000	10.068	761.14	0.0013	P	5.8
3	☐	1000.000	1025.011	16170.87	0.0279	P	1.2
4	☐	2500.000	2572.123	38614.17	0.0683	P	0.3
5	☐	5000.000	5161.989	77160.84	0.1361	P	0.5
6	☐	10000.000	10046.529	147425.41	0.2639	P	0.4
7	☐	20000.000	19925.972	293934.59	0.5223	P	0.6
8	☐			526.68	0.0010	P	4.4

$$y = 2.6161E-005 * x + 0.0010$$

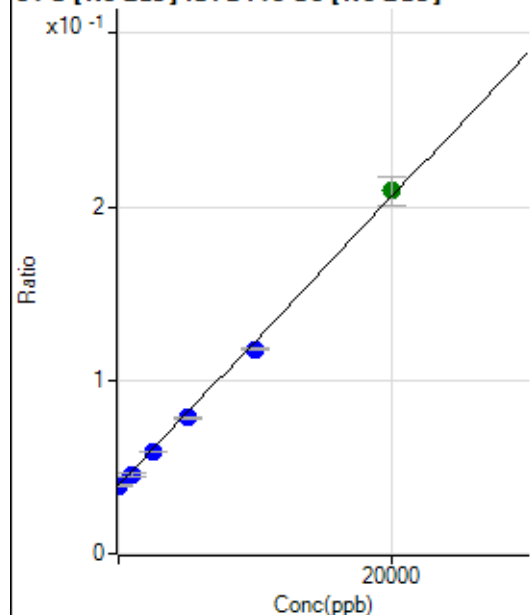
$$R = 1.0000$$

$$DL = 4.679$$

Weight: <None>

Min Conc: 0

34 S [No Gas] ISTD:45 Sc [No Gas]



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	-19.237	280533.70	0.0392	P	2.1
2	☐	0.000	19.237	281183.58	0.0395	P	3.4
3	☐	1000.000	731.710	340362.08	0.0454	P	4.1
4	☐	2500.000	2321.815	421183.02	0.0587	P	1.2
5	☐	5000.000	4678.570	552159.05	0.0783	P	0.7
6	☐	10000.000	9445.098	834512.47	0.1180	P	1.2
7	☐	20000.000	20393.496	1513659.14	0.2091	A	8.0
8	☐			244101.66	0.0380	P	5.1

$$y = 8.3225E-006 * x + 0.0394$$

$$R = 0.9993$$

$$DL = 387$$

Weight: <None>

Min Conc: 0

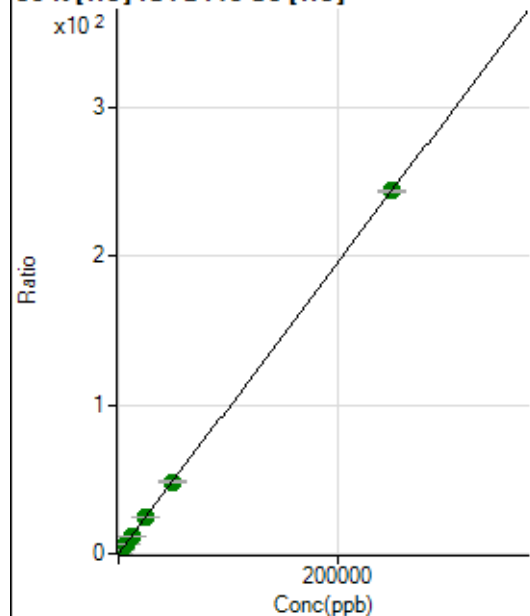
35 Cl [No Gas] No available calibration points



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐						
2	☐						
3	☐						
4	☐						
5	☐						
6	☐						
7	☐						
8	☐						

35 Cl [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐						
2	☐						
3	☐						
4	☐						
5	☐						
6	☐						
7	☐						
8	☐						

39 K [He] ISTD:45 Sc [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	64105.36	0.1115	P	1.0
2	☐	500.000	520.668	360605.67	0.6184	P	0.6
3	☐	2500.000	2510.704	1483539.91	2.5557	A	1.4
4	☐	6250.000	6249.492	3501058.77	6.1956	A	0.8
5	☐	12500.000	12447.370	6934124.13	12.2294	A	0.6
6	☐	25000.000	24766.533	13533410.08	24.2225	A	1.0
7	☐	50000.000	49283.873	27062357.37	48.0908	A	1.5
8	☐	250000.00	250169.06	128897954.7	243.6588	A	0.7

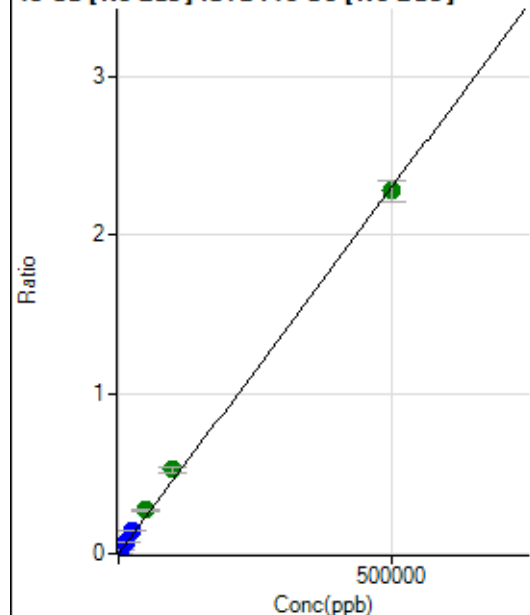
$$y = 9.7353E-004 * x + 0.1115$$

R = 1.0000

DL = 3.486

Weight: <None>

Min Conc: 0

43 Ca [No Gas] ISTD:45 Sc [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	234.45	0.0000	P	17.0
2	☐	500.000	548.467	18184.34	0.0026	P	2.4
3	☐	5000.000	6074.667	209323.32	0.0280	P	6.1
4	☐	12500.000	15371.076	507545.42	0.0707	P	2.5
5	☐	25000.000	30779.402	998402.86	0.1416	P	1.4
6	☐	50000.000	59175.679	1925268.17	0.2721	A	1.1
7	☐	100000.00	115020.59	3829914.14	0.5289	A	7.5
8	☐	500000.00	495706.77	14654824.64	2.2794	A	5.9

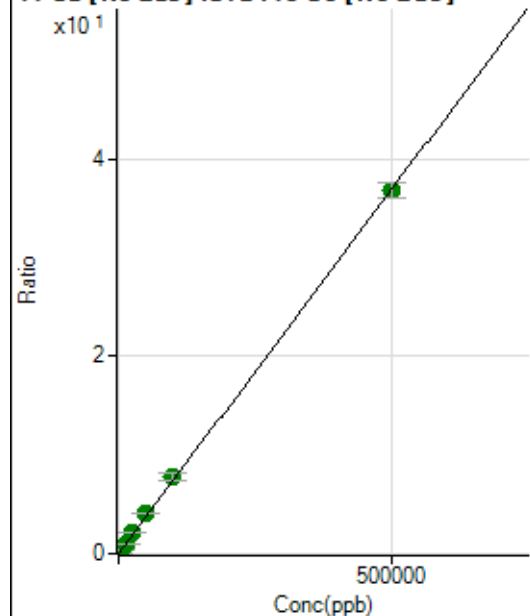
$$y = 4.5982\text{E-}006 * x + 3.2711\text{E-}005$$

$$R = 0.9994$$

$$DL = 3.62$$

Weight: <None>

Min Conc: 0

44 Ca [No Gas] ISTD:45 Sc [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	10959.91	0.0015	P	2.2
2	☐	500.000	550.317	300253.87	0.0422	P	2.5
3	☐	5000.000	5480.089	3041744.92	0.4063	A	5.9
4	☐	12500.000	13733.772	7293171.70	1.0160	A	2.2
5	☐	25000.000	28069.944	14635066.86	2.0750	A	2.1
6	☐	50000.000	54550.950	28518903.46	4.0311	A	1.5
7	☐	100000.00	105771.63	56573957.49	7.8148	A	8.2
8	☐	500000.00	498201.38	236728312.0	36.8031	A	4.2

$$y = 7.3869\text{E-}005 * x + 0.0015$$

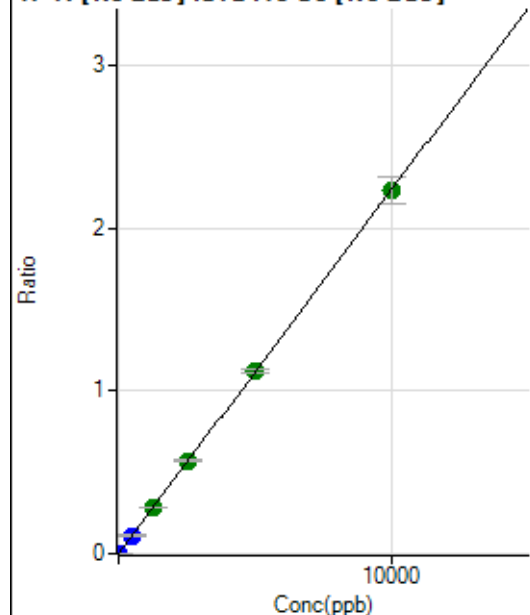
$$R = 0.9999$$

$$DL = 1.384$$

Weight: <None>

Min Conc: 0

47 Ti [No Gas] ISTD:45 Sc [No Gas]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	110.00	0.0000	P	33.0
2	☐	5.000	5.146	8300.12	0.0012	P	2.2
3	☐	500.000	496.429	830723.55	0.1110	P	6.4
4	☐	1250.000	1265.402	2030765.52	0.2829	A	1.3
5	☐	2500.000	2561.844	4039216.47	0.5727	A	2.2
6	☐	5000.000	5024.754	7947034.18	1.1233	A	2.1
7	☐	10000.000	9970.415	16140874.76	2.2290	A	7.4
8	☐			5540.03	0.0009	P	30.4

$$y = 2.2356E-004 * x + 1.5367E-005$$

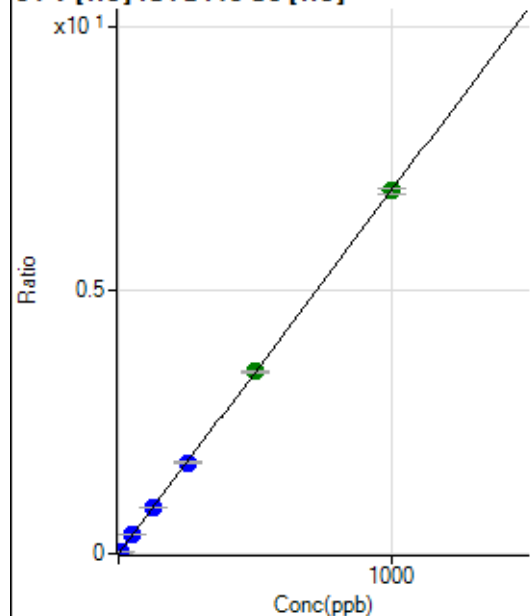
$$R = 1.0000$$

$$DL = 0.06796$$

Weight: <None>

Min Conc: 0

51 V [He] ISTD:45 Sc [He]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	14.44	0.0000	P	58.3
2	☐	5.000	5.061	20402.76	0.0350	P	2.0
3	☐	50.000	50.757	203564.70	0.3507	P	1.6
4	☐	125.000	126.237	492840.57	0.8721	P	0.5
5	☐	250.000	251.285	984348.38	1.7360	P	0.3
6	☐	500.000	501.964	1937507.21	3.4679	A	0.8
7	☐	1000.000	998.504	3881935.01	6.8982	A	1.5
8	☐			852.26	0.0016	P	6.5

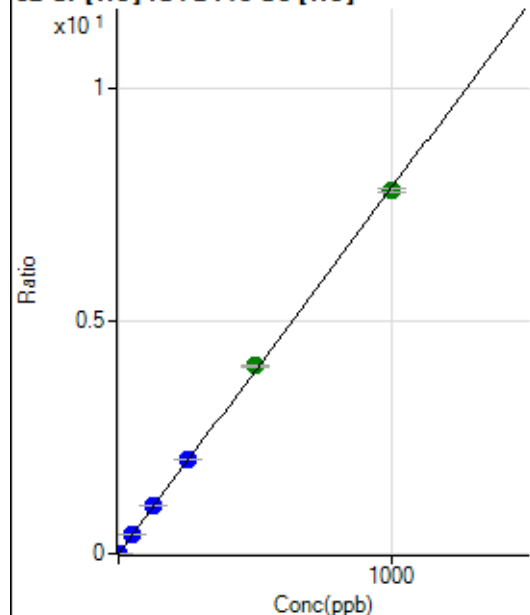
$$y = 0.0069 * x + 2.5154E-005$$

$$R = 1.0000$$

$$DL = 0.006369$$

Weight: <None>

Min Conc: 0

52 Cr [He] ISTD:45 Sc [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	1681.22	0.0029	P	2.2
2	☐	2.000	2.061	11157.55	0.0191	P	1.1
3	☐	50.000	51.582	237226.81	0.4087	P	2.1
4	☐	125.000	129.465	577169.61	1.0214	P	0.4
5	☐	250.000	255.217	1140026.68	2.0106	P	0.2
6	☐	500.000	512.479	2254037.93	4.0343	A	1.7
7	☐	1000.000	991.819	4392467.19	7.8051	A	1.2
8	☐			30917.24	0.0584	P	1.0

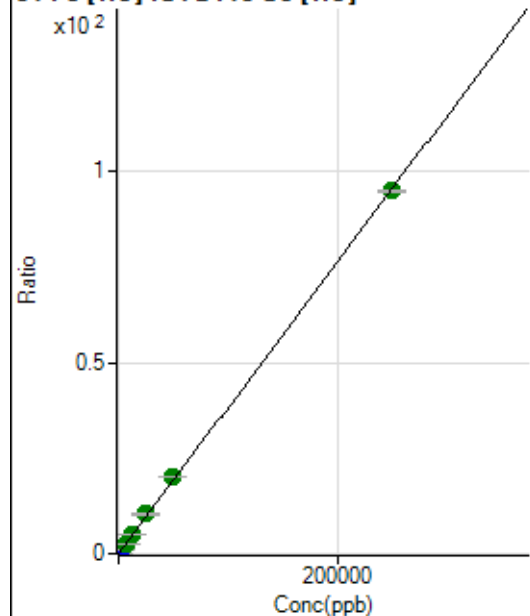
$$y = 0.0079 * x + 0.0029$$

$$R = 0.9999$$

$$DL = 0.02487$$

Weight: <None>

Min Conc: 0

54 Fe [He] ISTD:45 Sc [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	2509.12	0.0044	P	3.4
2	☐	50.000	57.914	15414.64	0.0264	P	2.1
3	☐	2500.000	2901.503	644410.07	1.1101	P	1.0
4	☐	6250.000	6859.592	1479661.99	2.6185	A	1.7
5	☐	12500.000	13842.508	2993578.60	5.2796	A	0.2
6	☐	25000.000	27095.425	5771528.18	10.3301	A	1.1
7	☐	50000.000	52889.790	11344901.78	20.1599	A	1.8
8	☐	250000.00	249126.11	50226329.80	94.9430	A	0.9

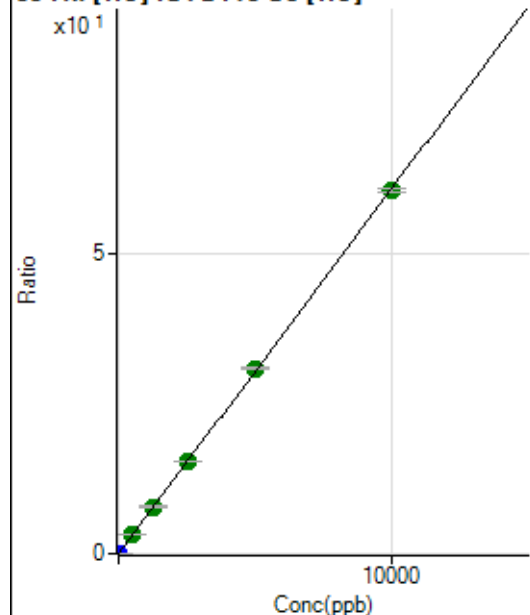
$$y = 3.8109E-004 * x + 0.0044$$

$$R = 0.9999$$

$$DL = 1.168$$

Weight: <None>

Min Conc: 0

55 Mn [He] ISTD:45 Sc [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	320.01	0.0006	P	12.1
2	☐	1.000	1.057	4066.15	0.0070	P	1.5
3	☐	500.000	518.812	1829230.18	3.1509	A	0.5
4	☐	1250.000	1287.778	4419281.88	7.8203	A	0.7
5	☐	2500.000	2522.843	8686600.22	15.3200	A	0.8
6	☐	5000.000	5082.824	17244622.80	30.8650	A	0.7
7	☐	10000.000	9947.214	33991618.66	60.4031	A	1.2
8	☐			17317.83	0.0327	P	2.4

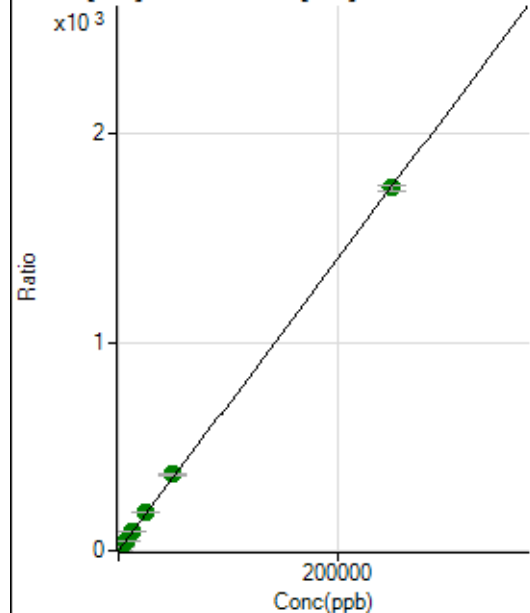
$$y = 0.0061 * x + 5.5632E-004$$

$$R = 0.9999$$

$$DL = 0.0332$$

Weight: <None>

Min Conc: 0

56 Fe [He] ISTD:45 Sc [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	15778.39	0.0274	P	3.2
2	☐	50.000	55.459	241659.77	0.4144	P	0.6
3	☐	2500.000	2738.993	11110873.03	19.1393	A	2.2
4	☐	6250.000	6804.718	26847415.71	47.5087	A	0.7
5	☐	12500.000	13425.622	53133705.87	93.7073	A	0.3
6	☐	25000.000	26577.645	103628256.2	185.4780	A	0.8
7	☐	50000.000	52259.102	205217661.3	364.6753	A	1.0
8	☐	250000.00	249327.87	920297719.6	1,739.760	A	1.5

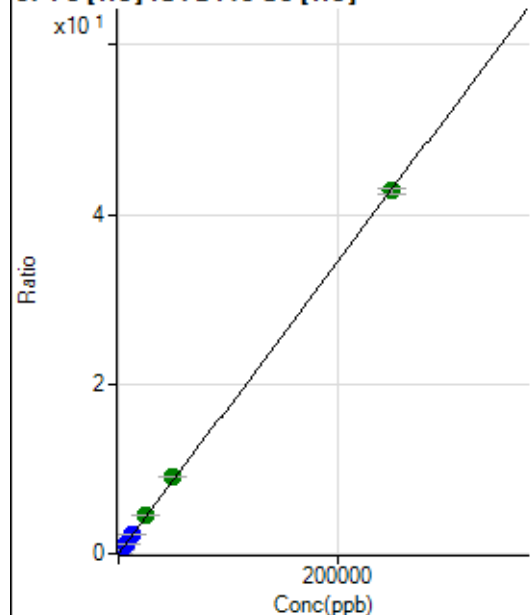
$$y = 0.0070 * x + 0.0274$$

$$R = 0.9999$$

$$DL = 0.3794$$

Weight: <None>

Min Conc: 0

57 Fe [He] ISTD:45 Sc [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	485.57	0.0008	P	11.9
2	☐	50.000	55.468	6043.50	0.0104	P	1.8
3	☐	2500.000	2828.802	282281.92	0.4863	P	0.7
4	☐	6250.000	6958.961	675312.61	1.1950	P	0.3
5	☐	12500.000	13791.110	1342372.27	2.3675	P	0.5
6	☐	25000.000	26550.904	2546082.86	4.5571	A	0.2
7	☐	50000.000	52670.256	5086809.09	9.0393	A	0.7
8	☐	250000.00	249225.29	22623819.11	42.7689	A	1.4

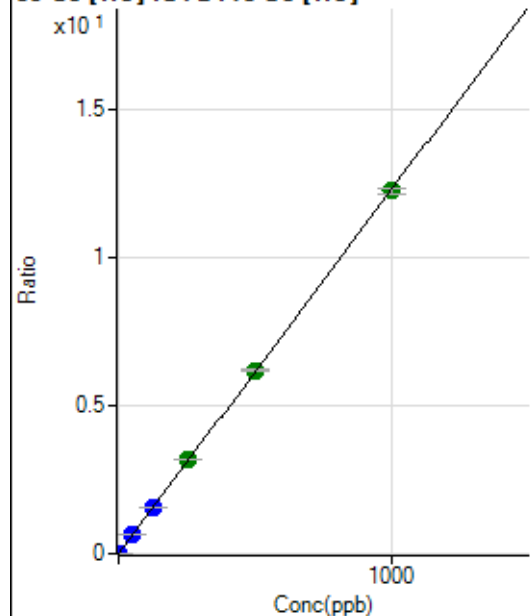
$$y = 1.7160\text{E-}004 * x + 8.4465\text{E-}004$$

$$R = 0.9999$$

$$DL = 1.755$$

Weight: <None>

Min Conc: 0

59 Co [He] ISTD:45 Sc [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	86.67	0.0002	P	8.1
2	☐	1.000	1.046	7585.31	0.0130	P	0.7
3	☐	50.000	52.201	372399.83	0.6415	P	1.0
4	☐	125.000	127.495	885304.88	1.5666	P	0.9
5	☐	250.000	257.399	1793297.74	3.1627	A	0.5
6	☐	500.000	502.702	3450993.21	6.1767	A	0.9
7	☐	1000.000	996.377	6889693.79	12.2423	A	1.3
8	☐			6029.05	0.0114	P	0.2

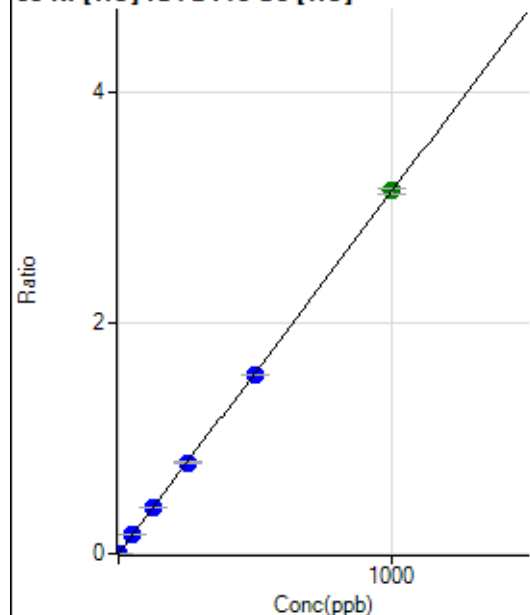
$$y = 0.0123 * x + 1.5075\text{E-}004$$

$$R = 1.0000$$

$$DL = 0.002978$$

Weight: <None>

Min Conc: 0

60 Ni [He] ISTD:45 Sc [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	121.12	0.0002	P	17.3
2	☐	1.000	1.047	2040.16	0.0035	P	5.2
3	☐	50.000	52.915	96600.58	0.1664	P	1.0
4	☐	125.000	129.359	229720.57	0.4065	P	0.5
5	☐	250.000	252.053	449004.13	0.7919	P	0.2
6	☐	500.000	493.363	865891.88	1.5498	P	0.5
7	☐	1000.000	1002.115	1771326.23	3.1477	A	1.8
8	☐			3503.77	0.0066	P	0.5

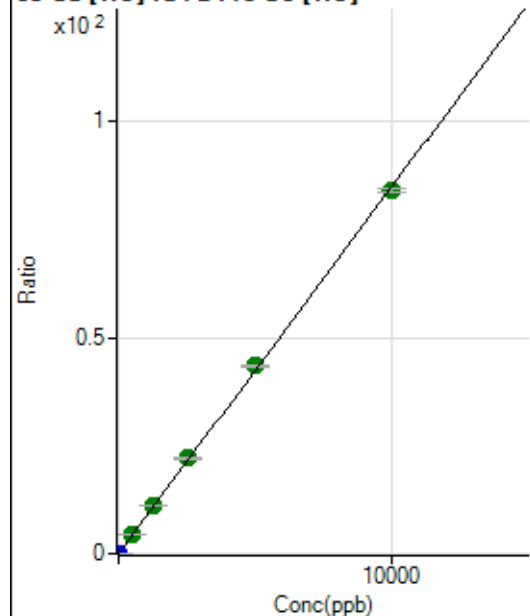
$$y = 0.0031 * x + 2.1057E-004$$

$$R = 1.0000$$

$$DL = 0.03475$$

Weight: <None>

Min Conc: 0

63 Cu [He] ISTD:45 Sc [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	1067.83	0.0019	P	3.9
2	☐	2.000	2.108	11501.17	0.0197	P	1.3
3	☐	500.000	534.931	2632313.33	4.5347	A	2.7
4	☐	1250.000	1320.664	6325057.13	11.1928	A	0.4
5	☐	2500.000	2598.863	12487948.98	22.0240	A	0.2
6	☐	5000.000	5134.672	24310545.19	43.5117	A	0.8
7	☐	10000.000	9897.369	47198947.63	83.8696	A	1.1
8	☐			7702.06	0.0146	P	3.4

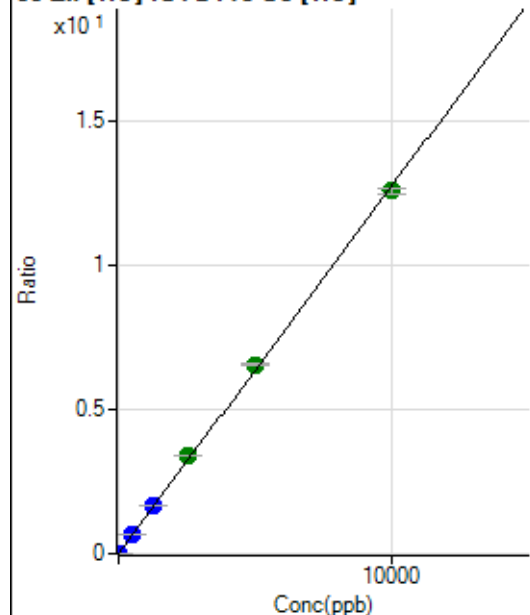
$$y = 0.0085 * x + 0.0019$$

$$R = 0.9998$$

$$DL = 0.02587$$

Weight: <None>

Min Conc: 0

66 Zn [He] ISTD:45 Sc [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	443.35	0.0008	P	3.5
2	☐	2.000	2.164	2057.94	0.0035	P	1.3
3	☐	500.000	534.067	395500.64	0.6813	P	1.4
4	☐	1250.000	1319.734	950777.55	1.6825	P	0.6
5	☐	2500.000	2662.885	1924500.60	3.3941	A	1.0
6	☐	5000.000	5139.748	3659760.99	6.5504	A	0.8
7	☐	10000.000	9878.985	7084750.38	12.5896	A	1.3
8	☐			4330.67	0.0082	P	2.3

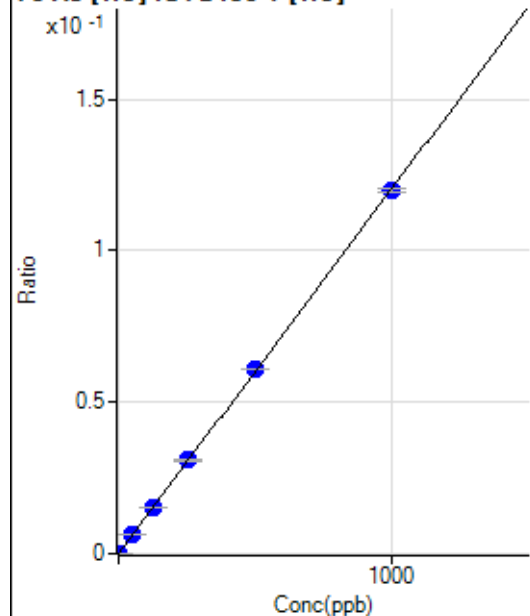
$$y = 0.0013 * x + 7.7090E-004$$

$$R = 0.9997$$

$$DL = 0.06364$$

Weight: <None>

Min Conc: 0

75 As [He] ISTD:89 Y [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	2.22	0.0000	P	86.6
2	☐	1.000	1.113	536.68	0.0001	P	14.9
3	☐	50.000	51.411	24994.45	0.0062	P	1.6
4	☐	125.000	127.323	60230.46	0.0153	P	0.8
5	☐	250.000	256.581	121328.96	0.0309	P	0.9
6	☐	500.000	505.547	235889.93	0.0608	P	0.3
7	☐	1000.000	995.220	469961.49	0.1198	P	1.1
8	☐			94.44	0.0000	P	17.7

$$y = 1.2034E-004 * x + 5.5362E-007$$

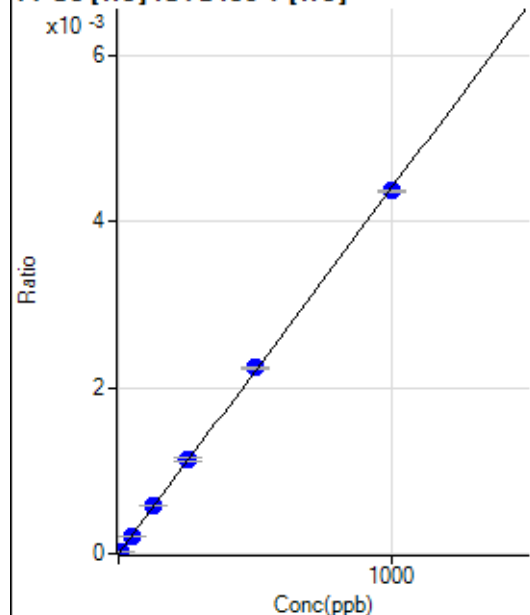
$$R = 1.0000$$

$$DL = 0.01195$$

Weight: <None>

Min Conc: 0

77 Se [He] ISTD:89 Y [He]



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	0.00	0.0000	P	
2	☐	5.000	5.509	96.67	0.0000	P	18.2
3	☐	50.000	49.358	876.70	0.0002	P	1.3
4	☐	125.000	131.881	2279.09	0.0006	P	0.2
5	☐	250.000	260.202	4495.18	0.0011	P	4.2
6	☐	500.000	507.806	8655.93	0.0022	P	1.5
7	☐	1000.000	992.716	17125.56	0.0044	P	0.5
8	☐			4.44	0.0000	P	43.9

$$y = 4.3962\text{E-}006 * x + 0.0000\text{E+}000$$

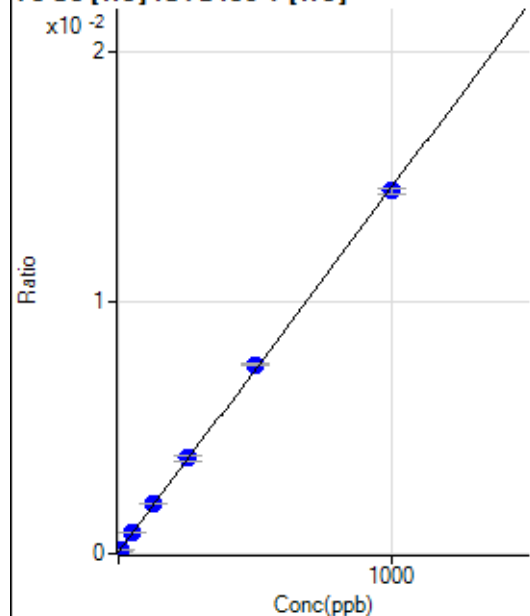
$$R = 0.9999$$

$$DL = 0$$

Weight: <None>

Min Conc: 0

78 Se [He] ISTD:89 Y [He]



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	283.34	0.0001	P	8.2
2	☐	5.000	6.415	654.47	0.0002	P	3.0
3	☐	50.000	52.756	3380.42	0.0008	P	2.1
4	☐	125.000	131.221	7767.65	0.0020	P	1.3
5	☐	250.000	257.225	14948.80	0.0038	P	5.2
6	☐	500.000	513.639	29192.15	0.0075	P	1.5
7	☐	1000.000	990.452	56708.15	0.0145	P	1.6
8	☐			331.12	0.0001	P	11.8

$$y = 1.4519\text{E-}005 * x + 7.0837\text{E-}005$$

$$R = 0.9998$$

$$DL = 1.205$$

Weight: <None>

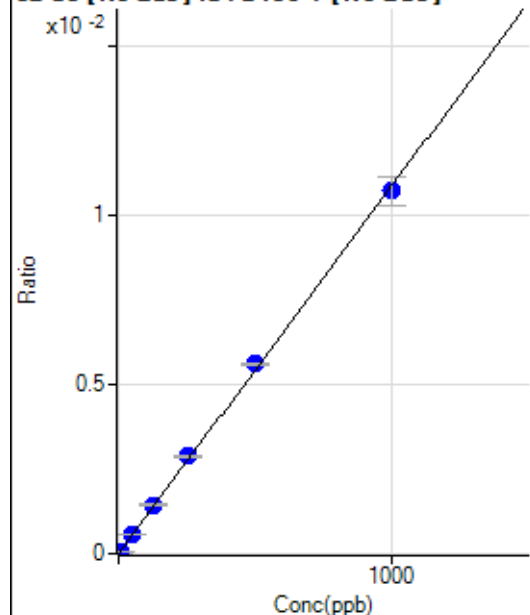
Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			41254.31		P	0.9
2	☐			41478.28		P	0.6
3	☐			42095.84		P	2.0
4	☐			40773.18		P	0.4
5	☐			39711.36		P	0.7
6	☐			39590.94		P	1.2
7	☐			39866.30		P	1.5
8	☐			40202.53		P	1.4

81 Br [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			63.33		P	22.9
2	☐			83.33		P	17.4
3	☐			76.67		P	23.0
4	☐			81.11		P	6.3
5	☐			46.67		P	18.9
6	☐			84.45		P	16.0
7	☐			56.67		P	29.4
8	☐			104.44		P	9.8

82 Se [No Gas] ISTD:89 Y [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	39.71	0.0000	P	82.8
2	☐	5.000	5.794	1030.34	0.0001	P	1.8
3	☐	50.000	52.974	9772.90	0.0006	P	6.0
4	☐	125.000	132.628	23561.53	0.0014	P	3.8
5	☐	250.000	264.998	46921.21	0.0029	P	1.3
6	☐	500.000	515.617	90630.45	0.0056	P	1.7
7	☐	1000.000	987.336	179279.68	0.0107	P	7.9
8	☐			330.75	0.0000	P	6.3

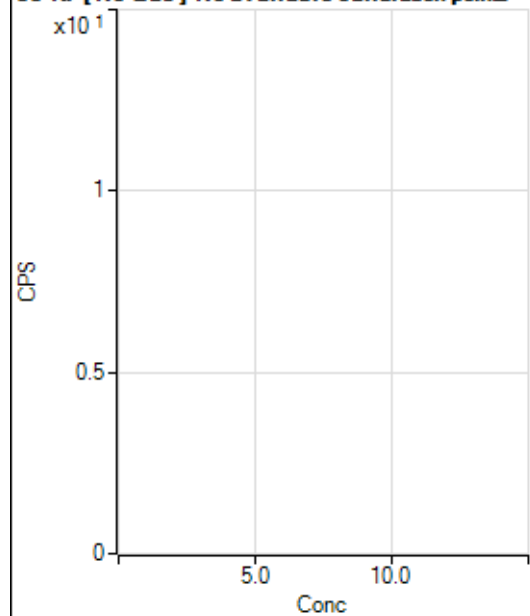
$$y = 1.0835E-005 * x + 2.4658E-006$$

$$R = 0.9997$$

$$DL = 0.5655$$

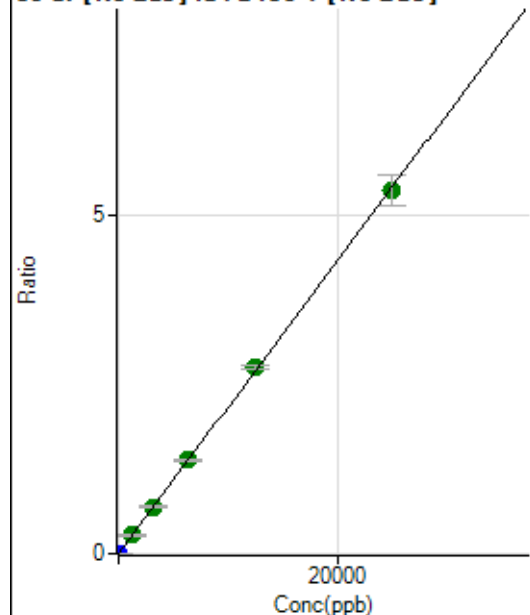
Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			216.67		P	3.1
2	☐			202.23		P	16.2
3	☐			225.56		P	16.3
4	☐			212.23		P	7.1
5	☐			223.34		P	23.9
6	☐			216.67		P	18.1
7	☐			262.23		P	17.8
8	☐			287.78		P	6.4

86 Sr [No Gas] ISTD:89 Y [No Gas]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	343.34	0.0000	P	11.6
2	☐	1.000	1.048	3904.99	0.0002	P	1.9
3	☐	1250.000	1269.449	4641144.76	0.2738	A	6.0
4	☐	3125.000	3198.608	11293500.25	0.6898	A	2.0
5	☐	6250.000	6404.021	22548837.16	1.3811	A	2.3
6	☐	12500.000	12779.385	44689327.95	2.7559	A	1.6
7	☐	25000.000	24811.629	89629381.44	5.3507	A	8.6
8	☐			41757.88	0.0029	P	23.9

$$y = 2.1565\text{E-}004 * x + 2.1364\text{E-}005$$

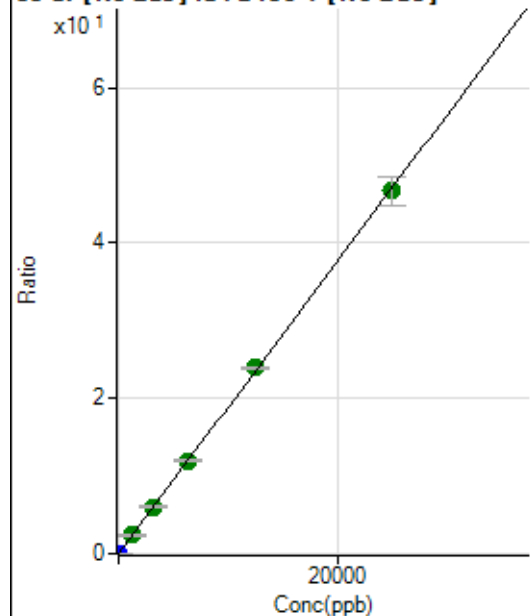
$$R = 0.9999$$

$$DL = 0.03445$$

Weight: <None>

Min Conc: 0

88 Sr [No Gas] ISTD:89 Y [No Gas]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	294.45	0.0000	P	20.3
2	☐	1.000	1.024	30675.41	0.0019	P	0.7
3	☐	1250.000	1265.199	40304098.57	2.3771	A	5.4
4	☐	3125.000	3191.098	98140072.98	5.9956	A	3.3
5	☐	6250.000	6386.647	195922432.6	11.9995	A	1.3
6	☐	12500.000	12711.473	387269727.5	23.8828	A	1.8
7	☐	25000.000	24851.079	782376352.7	46.6912	A	7.7
8	☐			356867.66	0.0245	P	23.3

$$y = 0.0019 * x + 1.8320\text{E-}005$$

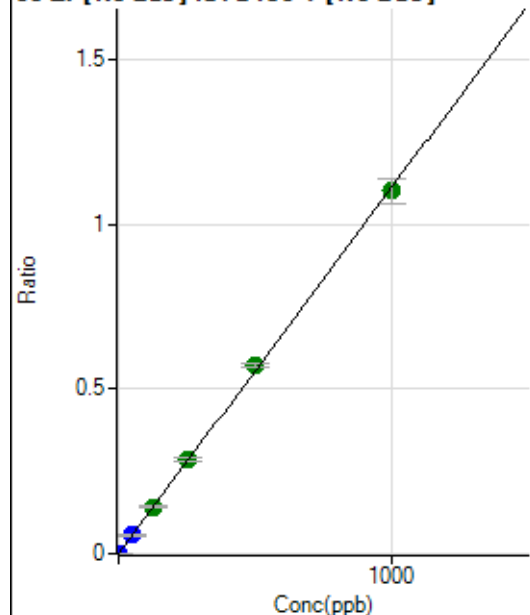
$$R = 0.9999$$

$$DL = 0.005949$$

Weight: <None>

Min Conc: 0

90 Zr [No Gas] ISTD : 89 Y [No Gas]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	591.13	0.0000	P	5.6
2	☐	1.000	1.006	18235.87	0.0012	P	2.4
3	☐	50.000	49.940	942079.21	0.0556	P	6.0
4	☐	125.000	127.085	2313715.03	0.1414	A	4.0
5	☐	250.000	256.600	4659416.77	0.2854	A	3.2
6	☐	500.000	513.419	9258572.50	0.5710	A	1.8
7	☐	1000.000	991.383	18478055.28	1.1025	A	7.0
8	☐			8111.34	0.0006	P	26.6

$$y = 0.0011 * x + 3.6783E-005$$

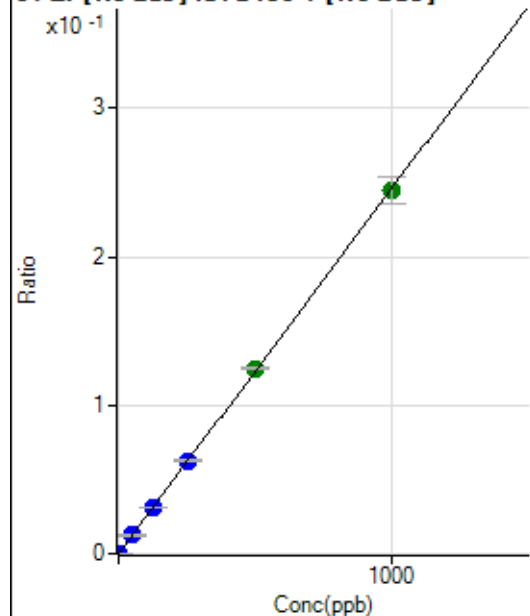
$$R = 0.9998$$

$$DL = 0.00551$$

Weight: <None>

Min Conc: 0

91 Zr [No Gas] ISTD : 89 Y [No Gas]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	101.11	0.0000	P	22.9
2	☐	1.000	1.006	4003.93	0.0003	P	1.6
3	☐	50.000	50.089	208798.81	0.0123	P	6.5
4	☐	125.000	126.349	508443.28	0.0311	P	3.9
5	☐	250.000	254.583	1021849.87	0.0626	P	1.9
6	☐	500.000	508.546	2027137.97	0.1250	A	1.3
7	☐	1000.000	994.408	4096133.58	0.2444	A	7.5
8	☐			1730.12	0.0001	P	23.5

$$y = 2.4581E-004 * x + 6.2875E-006$$

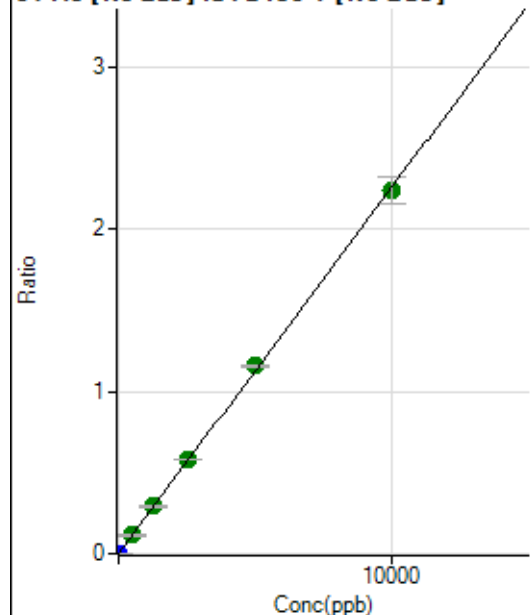
$$R = 0.9999$$

$$DL = 0.01755$$

Weight: <None>

Min Conc: 0

94 Mo [No Gas] ISTD:89 Y [No Gas]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	195.56	0.0000	P	26.2
2	☐	5.000	5.957	21411.33	0.0014	P	2.8
3	☐	500.000	507.923	1944158.03	0.1147	A	5.0
4	☐	1250.000	1290.112	4766863.68	0.2912	A	3.1
5	☐	2500.000	2569.273	9468790.55	0.5799	A	0.8
6	☐	5000.000	5129.298	18772800.83	1.1577	A	1.7
7	☐	10000.000	9912.622	37492946.39	2.2374	A	7.4
8	☐			16524.30	0.0011	P	22.8

$$y = 2.2571E-004 * x + 1.2163E-005$$

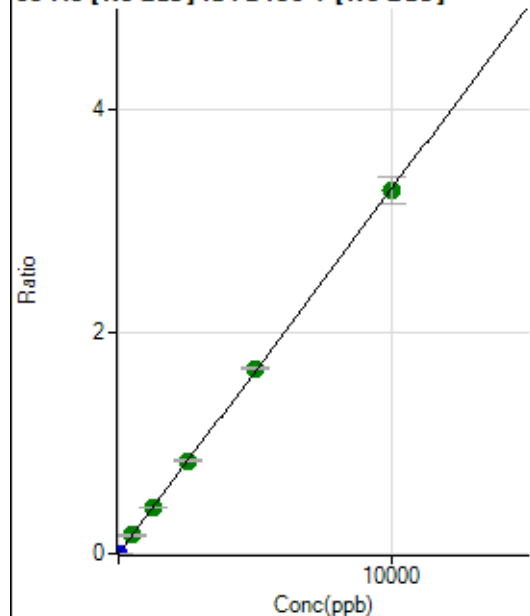
$$R = 0.9998$$

$$DL = 0.04239$$

Weight: <None>

Min Conc: 0

95 Mo [No Gas] ISTD:89 Y [No Gas]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	53.33	0.0000	P	34.9
2	☐	5.000	5.052	26273.63	0.0017	P	0.3
3	☐	500.000	506.607	2822980.76	0.1665	A	6.0
4	☐	1250.000	1267.908	6822195.32	0.4168	A	2.8
5	☐	2500.000	2543.178	13648253.41	0.8359	A	2.2
6	☐	5000.000	5082.198	27088162.38	1.6705	A	1.4
7	☐	10000.000	9945.538	54783684.74	3.2690	A	7.3
8	☐			24896.25	0.0017	P	14.5

$$y = 3.2869E-004 * x + 3.3190E-006$$

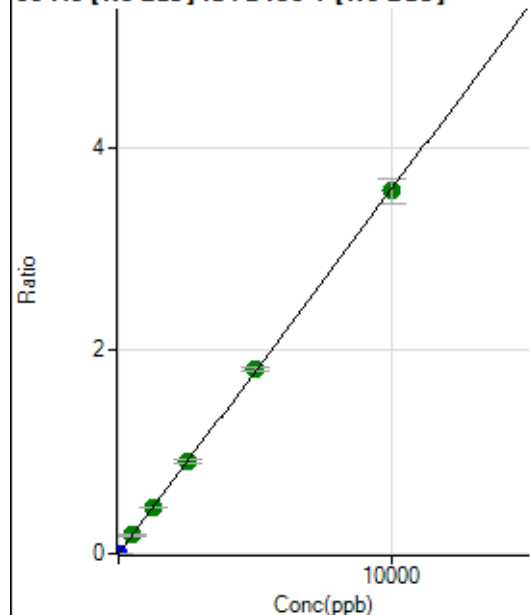
$$R = 0.9999$$

$$DL = 0.01058$$

Weight: <None>

Min Conc: 0

96 Mo [No Gas] ISTD:89 Y [No Gas]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	160.00	0.0000	P	5.8
2	☐	5.000	5.180	29478.66	0.0019	P	2.3
3	☐	500.000	507.899	3087627.84	0.1821	A	6.5
4	☐	1250.000	1269.596	7452607.04	0.4553	A	3.4
5	☐	2500.000	2543.229	14890525.20	0.9120	A	3.2
6	☐	5000.000	5061.402	29432285.67	1.8151	A	1.5
7	☐	10000.000	9955.647	59834483.55	3.5702	A	7.2
8	☐			43846.87	0.0030	P	13.5

$$y = 3.5861E-004 * x + 9.9548E-006$$

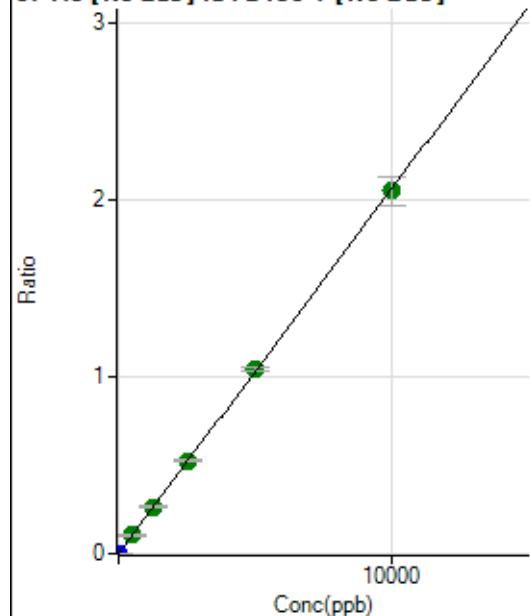
$$R = 1.0000$$

$$DL = 0.004855$$

Weight: <None>

Min Conc: 0

97 Mo [No Gas] ISTD:89 Y [No Gas]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	32.22	0.0000	P	6.5
2	☐	5.000	5.062	16469.37	0.0010	P	2.7
3	☐	500.000	503.638	1756803.79	0.1036	A	6.1
4	☐	1250.000	1283.098	4321886.81	0.2640	A	3.1
5	☐	2500.000	2539.853	8533216.89	0.5226	A	1.7
6	☐	5000.000	5067.546	16908134.61	1.0428	A	2.0
7	☐	10000.000	9951.945	34313519.49	2.0478	A	7.9
8	☐			14057.23	0.0010	P	24.5

$$y = 2.0577E-004 * x + 2.0054E-006$$

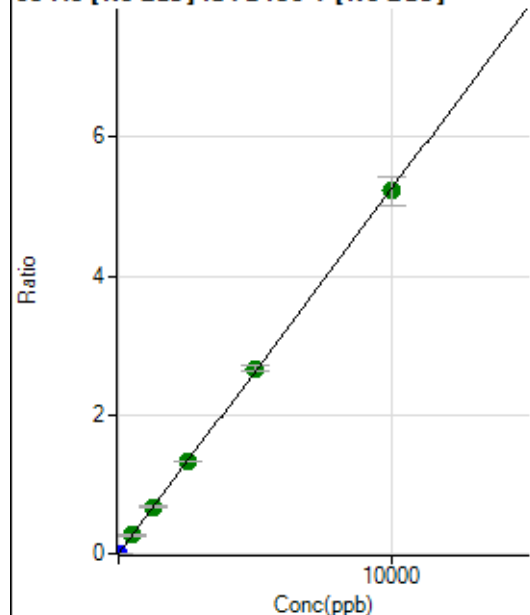
$$R = 1.0000$$

$$DL = 0.001899$$

Weight: <None>

Min Conc: 0

98 Mo [No Gas] ISTD : 89 Y [No Gas]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	93.33	0.0000	P	4.0
2	☐	5.000	5.073	42140.73	0.0027	P	2.2
3	☐	500.000	502.934	4478018.48	0.2641	A	5.2
4	☐	1250.000	1279.667	10999637.54	0.6720	A	3.1
5	☐	2500.000	2534.662	21731368.29	1.3310	A	1.3
6	☐	5000.000	5082.621	43274627.13	2.6689	A	2.8
7	☐	10000.000	9946.169	87507954.25	5.2228	A	7.9
8	☐			32899.04	0.0023	P	30.3

$$y = 5.2510E-004 * x + 5.8086E-006$$

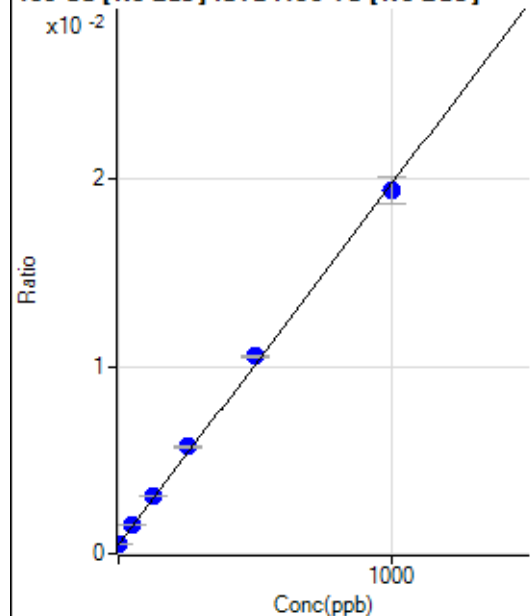
$$R = 0.9999$$

$$DL = 0.001328$$

Weight: <None>

Min Conc: 0

106 Cd [No Gas] ISTD : 159 Tb [No Gas]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	6392.58	0.0005	P	4.4
2	☐	1.000	0.452	6512.64	0.0005	P	2.1
3	☐	50.000	54.102	21435.94	0.0015	P	4.4
4	☐	125.000	134.535	41881.48	0.0031	P	1.9
5	☐	250.000	270.893	77173.89	0.0057	P	3.6
6	☐	500.000	523.663	144103.03	0.0106	P	1.1
7	☐	1000.000	981.549	275353.10	0.0194	P	7.5
8	☐			6054.66	0.0005	P	1.5

$$y = 1.9266E-005 * x + 4.8801E-004$$

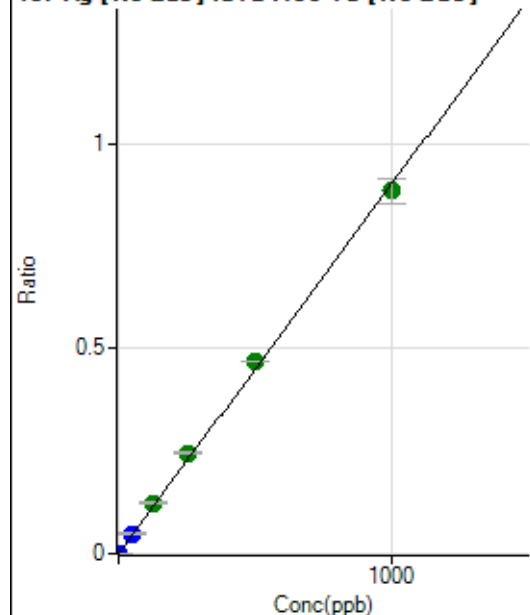
$$R = 0.9993$$

$$DL = 3.342$$

Weight: <None>

Min Conc: 0

107 Ag [No Gas] ISTD :159 Tb [No Gas]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	100.00	0.0000	P	22.0
2	☐	1.000	1.112	13246.14	0.0010	P	2.1
3	☐	50.000	54.074	682778.61	0.0488	P	6.1
4	☐	125.000	137.154	1681730.89	0.1237	A	2.1
5	☐	250.000	272.054	3317752.80	0.2453	A	2.6
6	☐	500.000	521.137	6402024.07	0.4699	A	0.3
7	☐	1000.000	982.195	12572943.42	0.8857	A	7.2
8	☐			7196.35	0.0006	P	15.2

$$y = 9.0171\text{E-}004 * x + 7.6364\text{E-}006$$

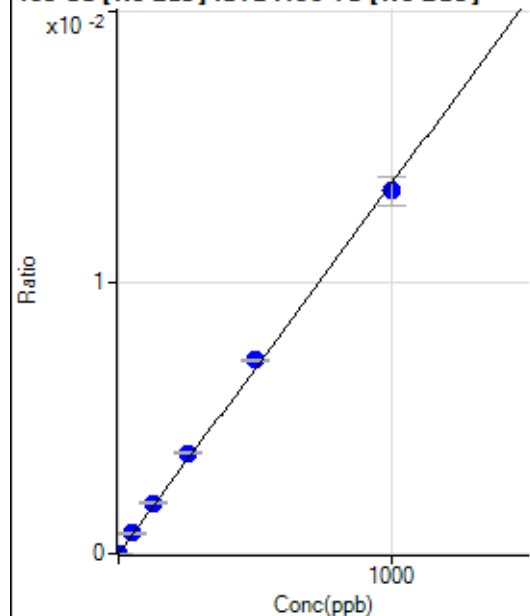
$$R = 0.9994$$

$$DL = 0.005595$$

Weight: <None>

Min Conc: 0

108 Cd [No Gas] ISTD :159 Tb [No Gas]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	25.56	0.0000	P	19.8
2	☐	1.000	1.107	223.34	0.0000	P	5.4
3	☐	50.000	55.090	10543.93	0.0008	P	5.8
4	☐	125.000	136.308	25292.19	0.0019	P	4.2
5	☐	250.000	272.856	50338.14	0.0037	P	2.0
6	☐	500.000	523.298	97220.03	0.0071	P	0.7
7	☐	1000.000	980.969	189817.46	0.0134	P	8.2
8	☐			130.00	0.0000	P	28.6

$$y = 1.3633\text{E-}005 * x + 1.9507\text{E-}006$$

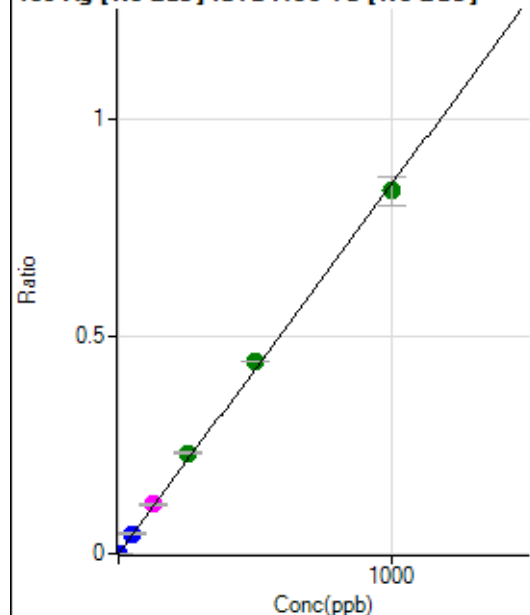
$$R = 0.9993$$

$$DL = 0.08516$$

Weight: <None>

Min Conc: 0

109 Ag [No Gas] ISTD :159 Tb [No Gas]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	46.67	0.0000	P	0.3
2	☐	1.000	1.115	12492.15	0.0010	P	1.5
3	☐	50.000	53.764	640649.58	0.0458	P	5.6
4	☐	125.000	135.018	1562037.60	0.1149	M	3.6
5	☐	250.000	271.997	3130049.95	0.2314	A	2.7
6	☐	500.000	520.841	6038167.34	0.4432	A	0.7
7	☐	1000.000	982.640	11866081.91	0.8361	A	8.1
8	☐			7260.82	0.0006	P	20.0

$$y = 8.5090E-004 * x + 3.5629E-006$$

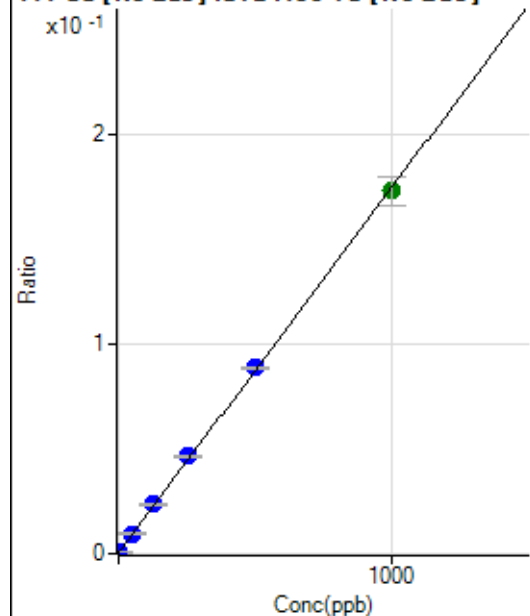
$$R = 0.9994$$

$$DL = 3.252E-05$$

Weight: <None>

Min Conc: 0

111 Cd [No Gas] ISTD :159 Tb [No Gas]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	4469.14	0.0003	P	4.3
2	☐	1.000	1.034	6839.40	0.0005	P	3.7
3	☐	50.000	52.932	134171.26	0.0096	P	5.5
4	☐	125.000	132.772	319783.54	0.0235	P	2.7
5	☐	250.000	265.716	631946.63	0.0467	P	2.4
6	☐	500.000	506.361	1208955.78	0.0887	P	0.9
7	☐	1000.000	991.772	2462110.80	0.1735	A	7.8
8	☐			5291.76	0.0004	P	1.8

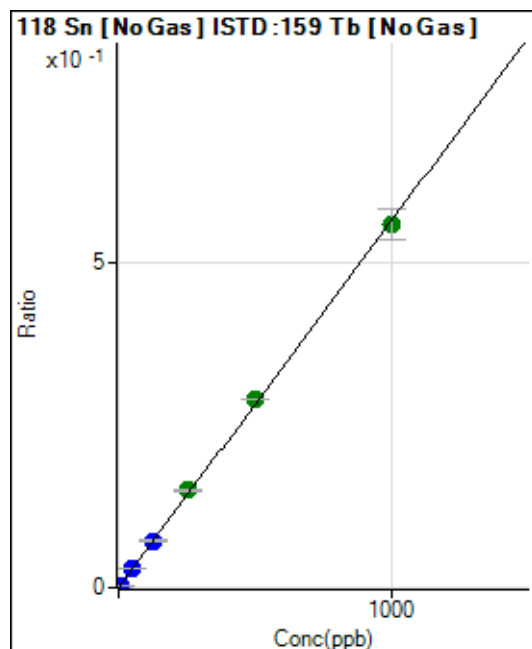
$$y = 1.7457E-004 * x + 3.4117E-004$$

$$R = 0.9998$$

$$DL = 0.2494$$

Weight: <None>

Min Conc: 0



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2176.08	0.0002	P	47.3
2	☐	5.000	5.178	40595.98	0.0031	P	1.9
3	☐	50.000	51.535	410667.54	0.0293	P	5.9
4	☐	125.000	128.090	987754.41	0.0727	P	3.4
5	☐	250.000	265.789	2036485.18	0.1506	A	2.0
6	☐	500.000	513.790	3963545.95	0.2909	A	0.8
7	☐	1000.000	988.694	7941608.56	0.5597	A	8.4
8	☐			6511.10	0.0005	P	25.7

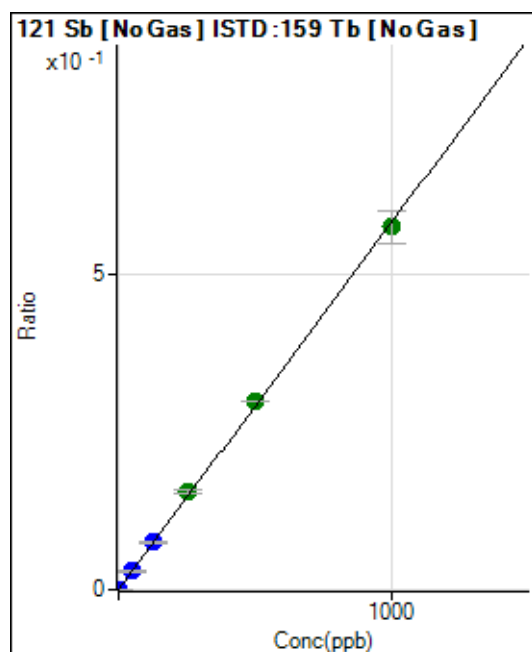
$$y = 5.6589\text{E-}004 * x + 1.6615\text{E-}004$$

$$R = 0.9997$$

$$DL = 0.4163$$

Weight: <None>

Min Conc: 0



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	72.22	0.0000	P	35.5
2	☐	2.000	2.097	16094.66	0.0012	P	3.1
3	☐	50.000	50.576	412735.69	0.0295	P	5.4
4	☐	125.000	128.474	1017856.47	0.0749	P	2.8
5	☐	250.000	267.520	2107929.55	0.1559	A	3.3
6	☐	500.000	513.964	4079746.40	0.2995	A	0.7
7	☐	1000.000	988.175	8169183.63	0.5758	A	8.7
8	☐			6211.41	0.0005	P	4.9

$$y = 5.8265\text{E-}004 * x + 5.5167\text{E-}006$$

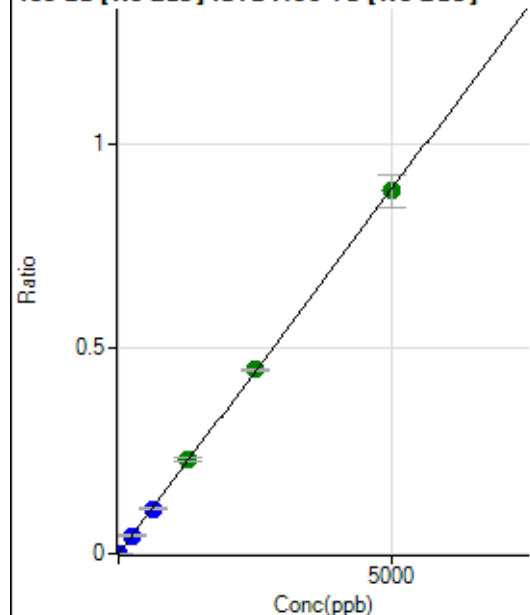
$$R = 0.9997$$

$$DL = 0.01008$$

Weight: <None>

Min Conc: 0

135 Ba [No Gas] ISTD :159 Tb [No Gas]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	34.44	0.0000	P	5.3
2	☐	10.000	10.098	23572.93	0.0018	P	2.1
3	☐	250.000	245.376	610835.43	0.0436	P	6.2
4	☐	625.000	617.545	1492910.57	0.1098	P	2.7
5	☐	1250.000	1299.264	3123817.38	0.2310	A	3.4
6	☐	2500.000	2524.483	6114409.70	0.4488	A	1.3
7	☐	5000.000	4976.605	12553197.87	0.8848	A	8.9
8	☐			8443.76	0.0007	P	16.4

$$y = 1.7779E-004 * x + 2.6292E-006$$

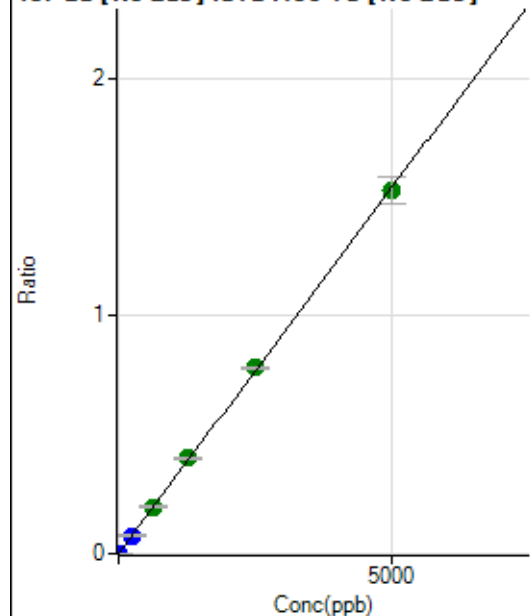
$$R = 0.9999$$

$$DL = 0.002371$$

Weight: <None>

Min Conc: 0

137 Ba [No Gas] ISTD :159 Tb [No Gas]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	45.56	0.0000	P	21.3
2	☐	10.000	10.009	40417.32	0.0031	P	2.7
3	☐	250.000	245.617	1058046.34	0.0756	P	6.0
4	☐	625.000	642.338	2686819.42	0.1976	A	3.5
5	☐	1250.000	1302.274	5418233.60	0.4006	A	2.7
6	☐	2500.000	2546.638	10674106.09	0.7835	A	0.8
7	☐	5000.000	4961.664	21667369.68	1.5264	A	7.4
8	☐			14702.27	0.0012	P	11.2

$$y = 3.0764E-004 * x + 3.4788E-006$$

$$R = 0.9999$$

$$DL = 0.007237$$

Weight: <None>

Min Conc: 0

150 Nd [No Gas] No available calibration points

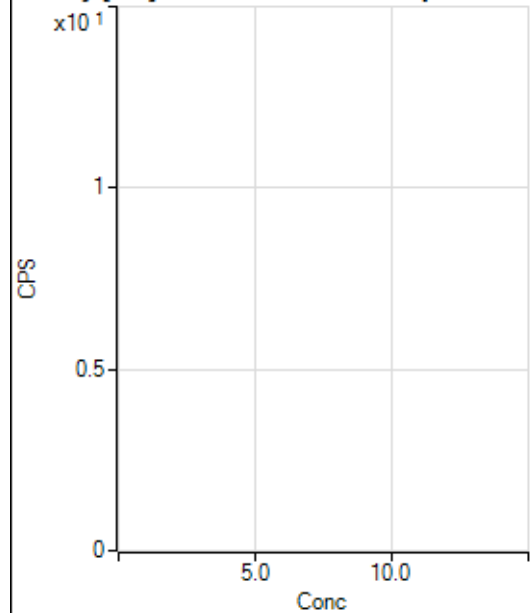
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			8.89		P	78.1
2	☐			17.78		P	10.8
3	☐			86.67		P	11.5
4	☐			256.67		P	10.3
5	☐			385.57		P	12.6
6	☐			782.25		P	4.2
7	☐			1547.88		P	3.6
8	☐			76.67		P	27.2

150 Nd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			3.33		P	0.0
2	☐			10.00		P	66.7
3	☐			23.33		P	14.3
4	☐			56.66		P	10.2
5	☐			86.67		P	7.7
6	☐			183.34		P	22.7
7	☐			304.45		P	7.8
8	☐			50.00		P	17.6

156 Dy [No Gas] No available calibration points

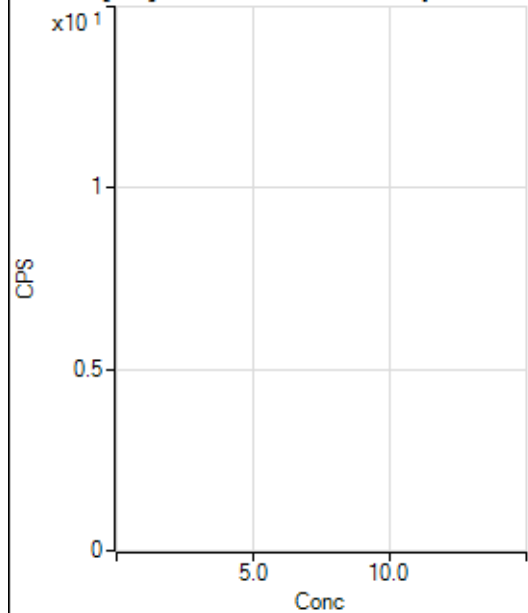
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			11.11		P	96.4
2	☐			17.78		P	10.8
3	☐			42.22		P	16.4
4	☐			128.89		P	16.6
5	☐			217.78		P	0.9
6	☐			401.12		P	12.1
7	☐			752.25		P	11.8
8	☐			2057.95		P	3.1

156 Dy [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			4.44		P	114.
2	☐			10.00		P	66.7
3	☐			43.33		P	20.3
4	☐			93.33		P	12.9
5	☐			185.56		P	11.4
6	☐			368.90		P	1.9
7	☐			734.47		P	6.6
8	☐			1413.42		P	4.1

160 Gd [No Gas] Noavailable calibration poin...

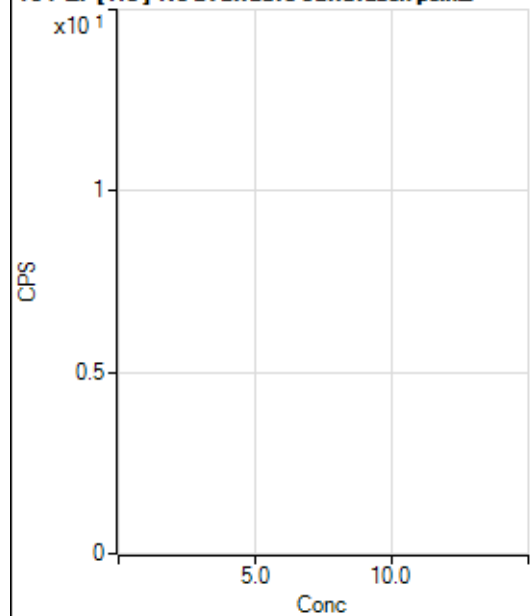
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			81.11		P	15.6
2	☐			87.78		P	12.2
3	☐			96.67		P	15.8
4	☐			156.67		P	13.3
5	☐			213.34		P	12.5
6	☐			316.67		P	12.6
7	☐			646.69		P	1.9
8	☐			2331.33		P	5.7

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			394.45		P	1.3
2	☐			396.68		P	4.4
3	☐			423.34		P	7.2
4	☐			401.12		P	12.8
5	☐			517.79		P	3.3
6	☐			608.91		P	7.8
7	☐			765.58		P	3.8
8	☐			1920.15		P	2.4

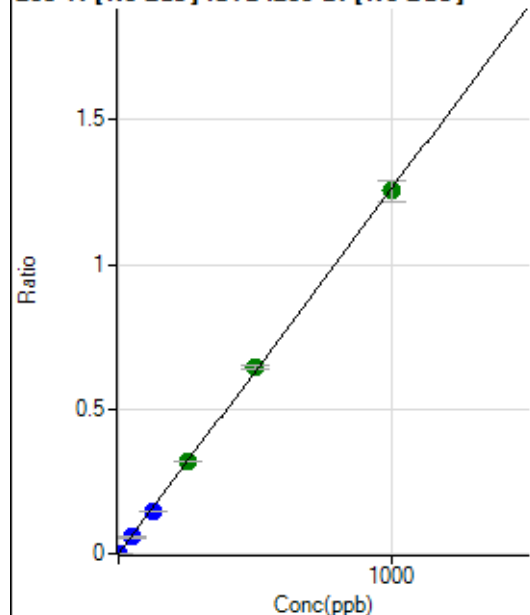
164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			94.45		P	14.3
2	☐			102.22		P	10.0
3	☐			124.45		P	1.5
4	☐			121.11		P	30.9
5	☐			121.11		P	15.9
6	☐			161.11		P	17.2
7	☐			188.89		P	19.8
8	☐			177.78		P	7.6

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			66.66		P	17.3
2	☐			66.67		P	30.0
3	☐			57.78		P	14.5
4	☐			77.78		P	6.5
5	☐			82.22		P	20.0
6	☐			108.89		P	17.4
7	☐			124.45		P	22.5
8	☐			123.33		P	11.8

203 Tl [No Gas] ISTD :209 Bi [No Gas]



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	143.34	0.0000	P	27.1
2	☐	1.000	0.939	10044.88	0.0012	P	0.6
3	☐	50.000	45.800	507487.53	0.0578	P	5.9
4	☐	125.000	116.149	1265045.57	0.1465	P	1.2
5	☐	250.000	253.637	2733476.84	0.3199	A	1.2
6	☐	500.000	511.472	5403165.79	0.6451	A	1.2
7	☐	1000.000	994.671	10642746.30	1.2546	A	5.6
8	☐			2964.84	0.0004	P	34.3

$$y = 0.0013 * x + 1.6940E-005$$

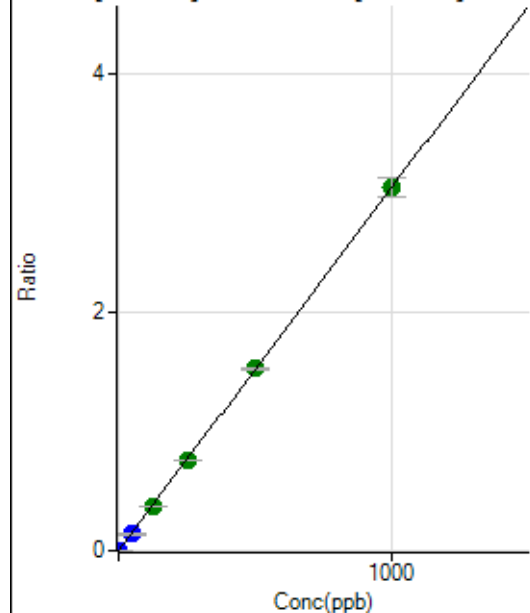
$$R = 0.9998$$

$$DL = 0.01093$$

Weight: <None>

Min Conc: 0

205 Tl [No Gas] ISTD :209 Bi [No Gas]



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	294.45	0.0000	P	7.8
2	☐	1.000	0.915	23531.51	0.0028	P	0.6
3	☐	50.000	45.208	1206336.08	0.1374	P	6.0
4	☐	125.000	121.933	3198298.74	0.3704	A	1.9
5	☐	250.000	249.354	6471358.03	0.7575	A	1.7
6	☐	500.000	501.822	12767455.23	1.5245	A	1.2
7	☐	1000.000	999.874	25766574.62	3.0374	A	5.4
8	☐			7084.31	0.0011	P	33.8

$$y = 0.0030 * x + 3.4832E-005$$

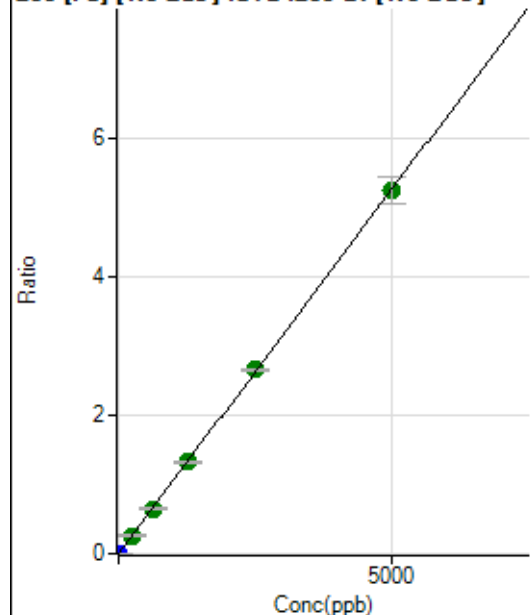
$$R = 1.0000$$

$$DL = 0.002698$$

Weight: <None>

Min Conc: 0

206 [Pb] [No Gas] ISTD :209 Bi [No Gas]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	382.23	0.0000	P	9.2
2	☐	1.000	0.911	8392.67	0.0010	P	0.5
3	☐	250.000	246.225	2276108.66	0.2592	A	6.9
4	☐	625.000	618.067	5617838.81	0.6507	A	2.2
5	☐	1250.000	1258.870	11323216.50	1.3253	A	1.5
6	☐	2500.000	2529.193	22298986.61	2.6626	A	0.7
7	☐	5000.000	4984.242	44483869.06	5.2470	A	7.5
8	☐			15779.81	0.0024	P	25.8

$$y = 0.0011 * x + 4.5184E-005$$

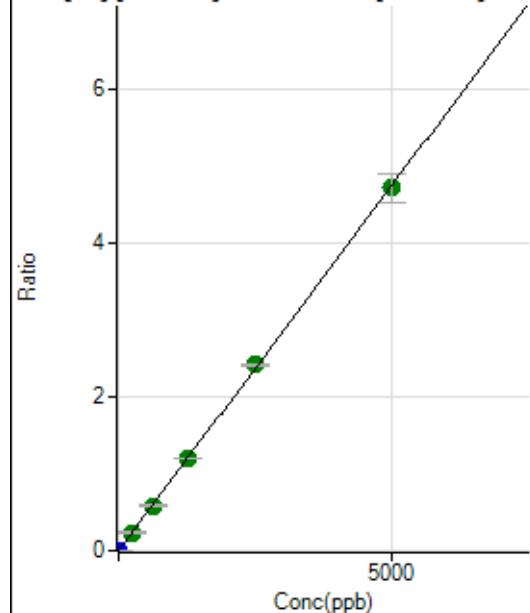
$$R = 1.0000$$

$$DL = 0.01181$$

Weight: <None>

Min Conc: 0

207 [Pb] [No Gas] ISTD :209 Bi [No Gas]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	284.45	0.0000	P	20.0
2	☐	1.000	0.897	7406.51	0.0009	P	0.8
3	☐	250.000	246.691	2058020.72	0.2343	A	6.1
4	☐	625.000	618.053	5068594.93	0.5871	A	2.0
5	☐	1250.000	1270.470	10308822.63	1.2067	A	1.2
6	☐	2500.000	2544.181	20238567.33	2.4165	A	0.7
7	☐	5000.000	4973.826	40050008.29	4.7242	A	7.6
8	☐			14267.00	0.0022	P	26.0

$$y = 9.4981E-004 * x + 3.3609E-005$$

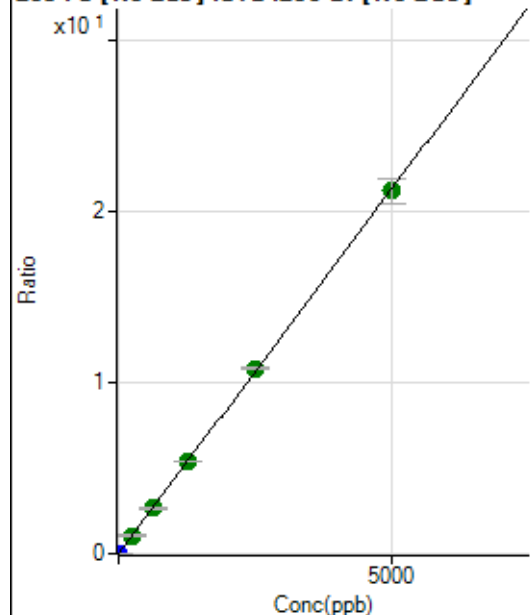
$$R = 0.9999$$

$$DL = 0.02124$$

Weight: <None>

Min Conc: 0

208 Pb [No Gas] ISTD :209 Bi [No Gas]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	1431.15	0.0002	P	3.1
2	☐	1.000	0.900	33440.74	0.0040	P	1.3
3	☐	250.000	245.095	9158938.20	1.0430	A	6.3
4	☐	625.000	621.159	22820038.97	2.6431	A	2.0
5	☐	1250.000	1269.638	46151748.76	5.4023	A	1.0
6	☐	2500.000	2536.375	90384726.01	10.7921	A	1.0
7	☐	5000.000	4977.628	179586035.9	21.1794	A	6.9
8	☐			63702.21	0.0097	P	25.7

$$y = 0.0043 * x + 1.6922E-004$$

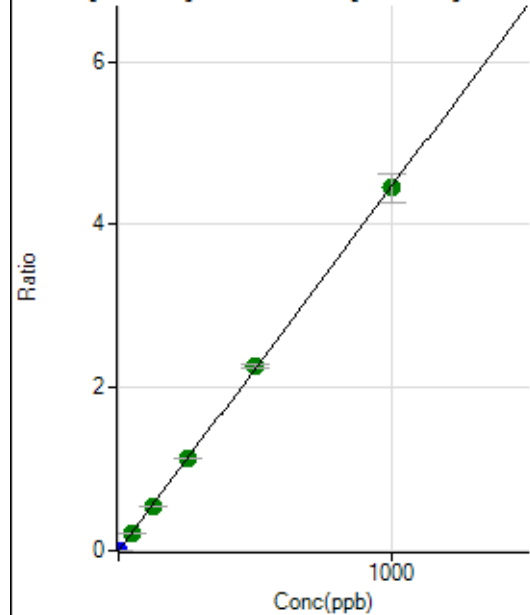
$$R = 0.9999$$

$$DL = 0.003668$$

Weight: <None>

Min Conc: 0

238 U [No Gas] ISTD :209 Bi [No Gas]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	32.22	0.0000	P	59.5
2	☐	1.000	0.853	31867.13	0.0038	P	1.5
3	☐	50.000	48.103	1885302.00	0.2148	A	7.5
4	☐	125.000	120.856	4658614.48	0.5396	A	1.7
5	☐	250.000	252.523	9632247.71	1.1274	A	0.8
6	☐	500.000	506.914	18953773.61	2.2631	A	1.3
7	☐	1000.000	996.525	37716033.89	4.4490	A	7.7
8	☐			9400.50	0.0014	P	39.0

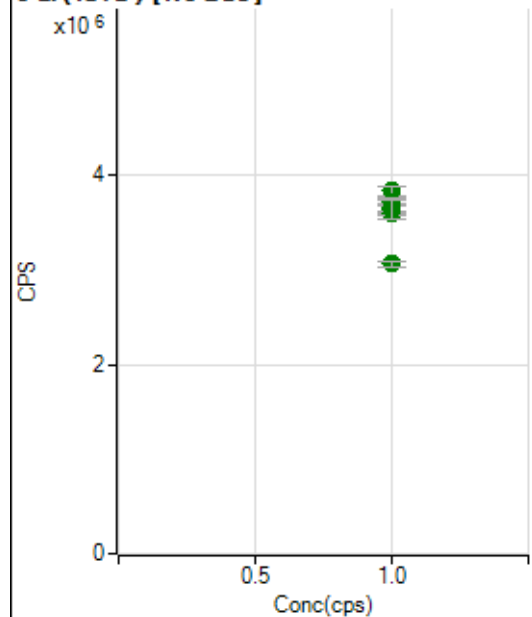
$$y = 0.0045 * x + 3.8197E-006$$

$$R = 0.9999$$

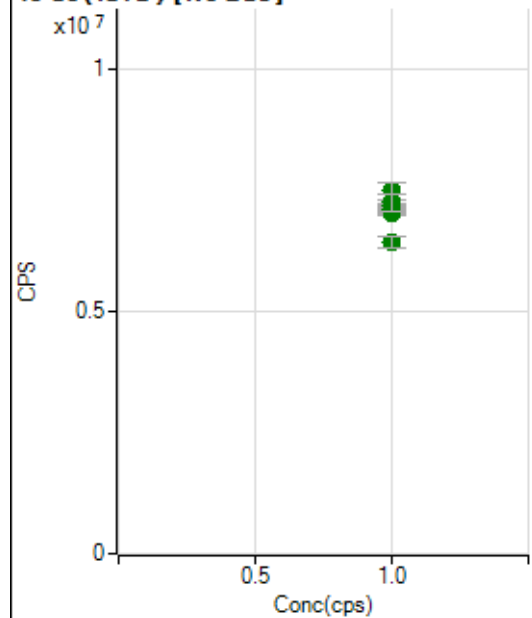
$$DL = 0.001527$$

Weight: <None>

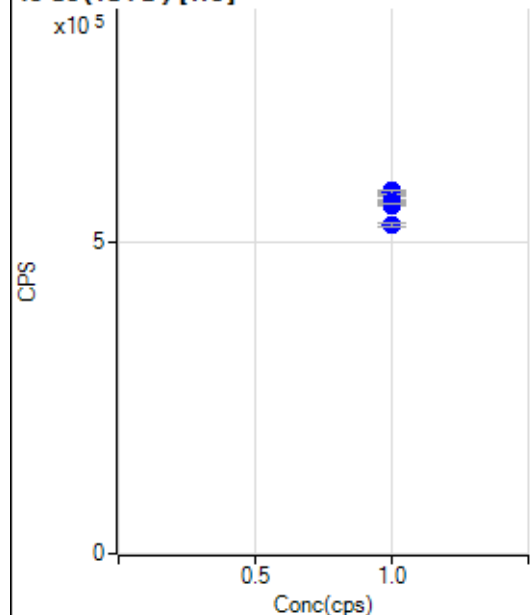
Min Conc: 0

6 Li (ISTD) [No Gas]

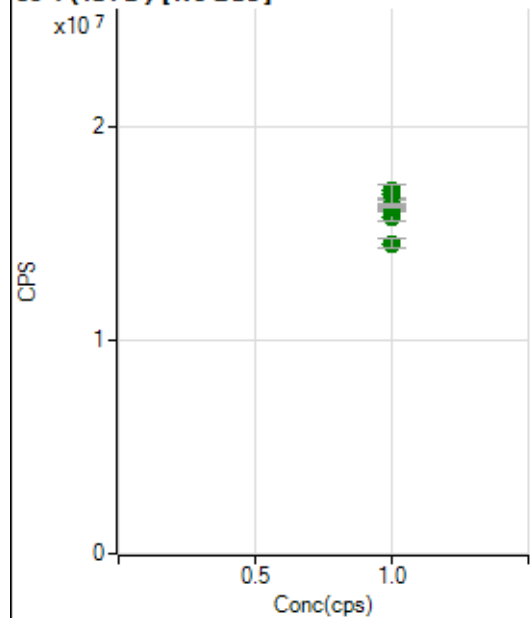
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3695572.79		A	0.3
2	☐	1.000		3668719.95		A	4.1
3	☐	1.000		3838879.67		A	2.6
4	☐	1.000		3724050.64		A	2.4
5	☐	1.000		3604850.26		A	1.2
6	☐	1.000		3598971.89		A	0.9
7	☐	1.000		3634760.15		A	5.6
8	☐	1.000		3067814.57		A	2.2

45 Sc (ISTD) [No Gas]

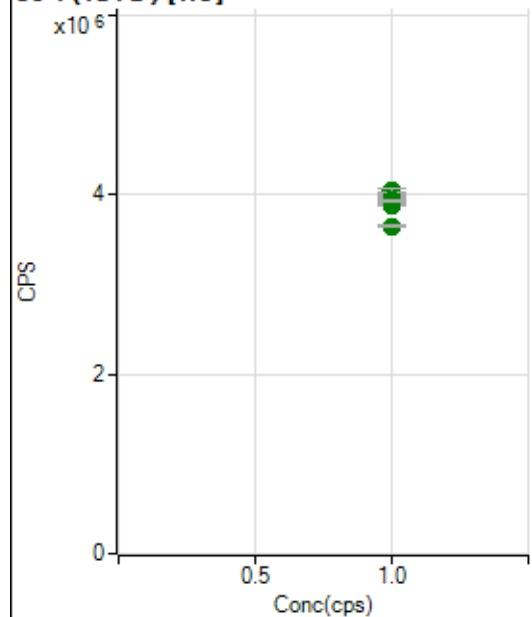
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7159131.21		A	1.0
2	☐	1.000		7121508.30		A	3.0
3	☐	1.000		7500077.87		A	4.9
4	☐	1.000		7179003.02		A	1.2
5	☐	1.000		7053208.78		A	0.9
6	☐	1.000		7074921.08		A	0.4
7	☐	1.000		7259485.38		A	5.1
8	☐	1.000		6439867.34		A	4.2

45 Sc (ISTD) [He]

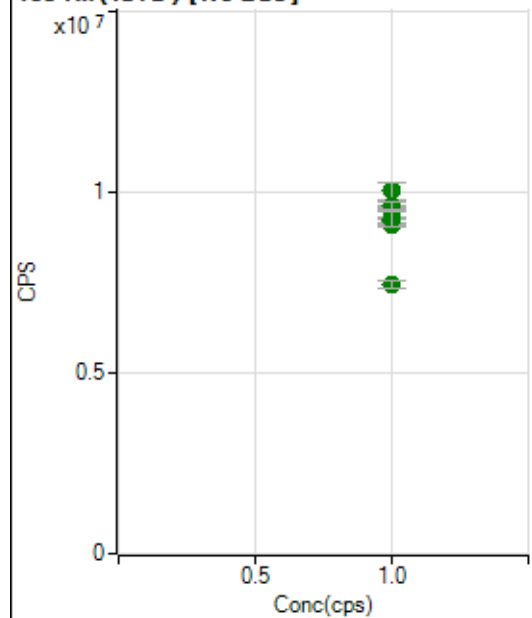
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		575043.05		P	0.5
2	☐	1.000		583146.86		P	0.4
3	☐	1.000		580519.60		P	0.9
4	☐	1.000		565103.58		P	0.4
5	☐	1.000		567013.79		P	0.4
6	☐	1.000		558708.70		P	0.1
7	☐	1.000		562755.75		P	0.4
8	☐	1.000		529037.78		P	1.2

89 Y (ISTD) [No Gas]

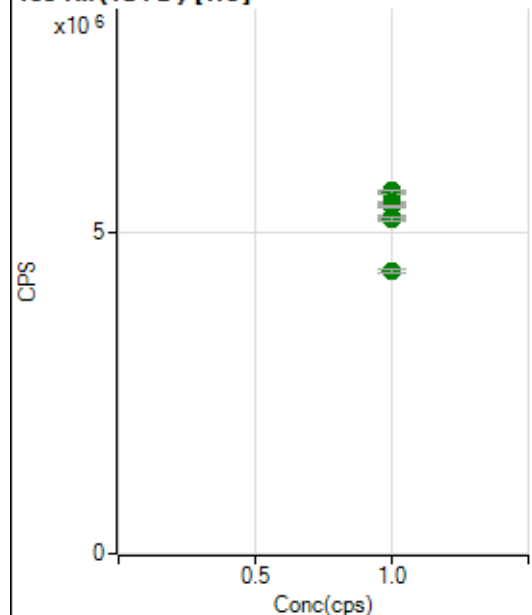
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		16070201.56		A	0.6
2	☐	1.000		15789578.79		A	2.6
3	☐	1.000		16978885.86		A	3.9
4	☐	1.000		16375624.90		A	1.9
5	☐	1.000		16328169.89		A	0.5
6	☐	1.000		16216071.98		A	0.7
7	☐	1.000		16802585.44		A	5.4
8	☐	1.000		14502922.01		A	3.1

89 Y (ISTD) [He]

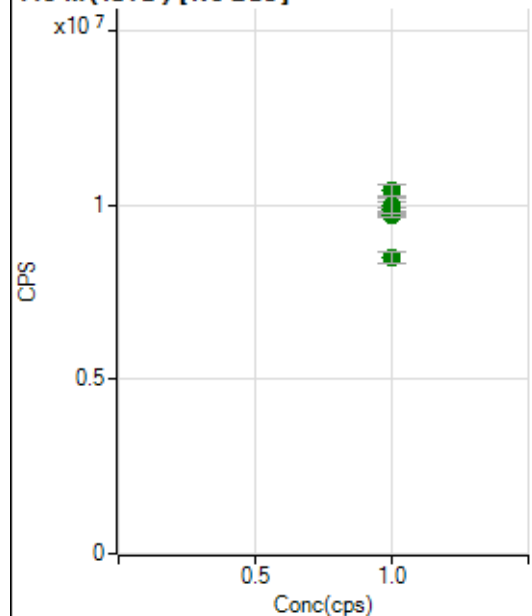
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3999331.50		A	0.7
2	☐	1.000		3991234.91		A	0.1
3	☐	1.000		4040043.10		A	1.0
4	☐	1.000		3930982.75		A	0.7
5	☐	1.000		3929727.47		A	1.5
6	☐	1.000		3877376.30		A	0.3
7	☐	1.000		3924222.86		A	0.7
8	☐	1.000		3642709.01		A	0.5

103 Rh (ISTD) [No Gas]

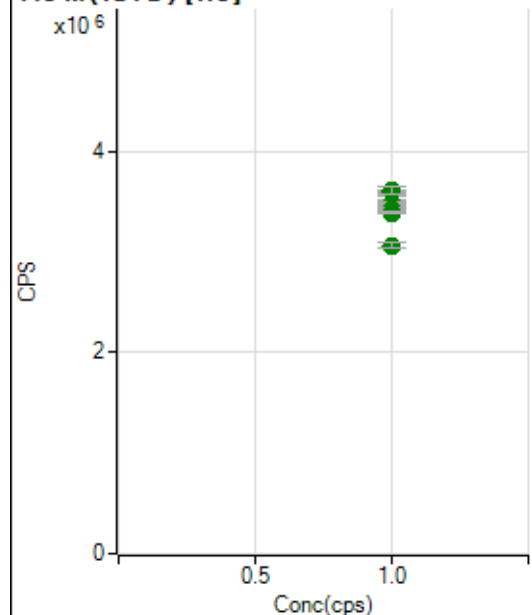
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		9572557.71		A	1.5
2	☐	1.000		9474726.87		A	2.8
3	☐	1.000		10050272.97		A	4.5
4	☐	1.000		9656440.27		A	2.2
5	☐	1.000		9230921.53		A	1.3
6	☐	1.000		9095573.55		A	0.6
7	☐	1.000		9268596.46		A	4.7
8	☐	1.000		7457718.57		A	3.2

103 Rh (ISTD) [He]

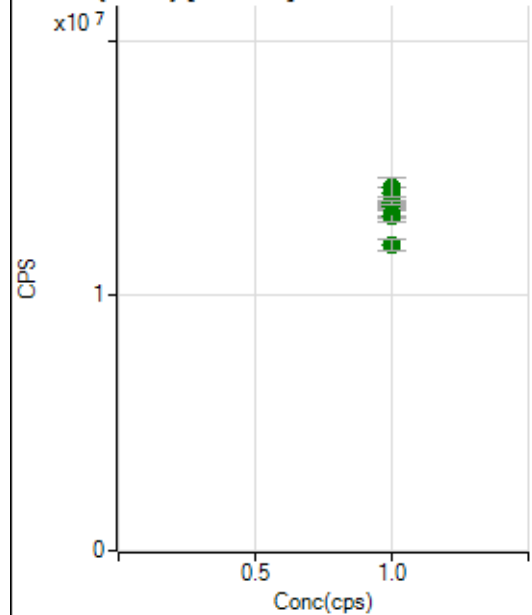
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5638752.42		A	0.8
2	☐	1.000		5607294.15		A	0.5
3	☐	1.000		5618154.60		A	0.8
4	☐	1.000		5457623.67		A	0.8
5	☐	1.000		5404789.75		A	0.7
6	☐	1.000		5221122.94		A	1.3
7	☐	1.000		5210584.19		A	1.1
8	☐	1.000		4397379.35		A	1.2

115 In (ISTD) [No Gas]

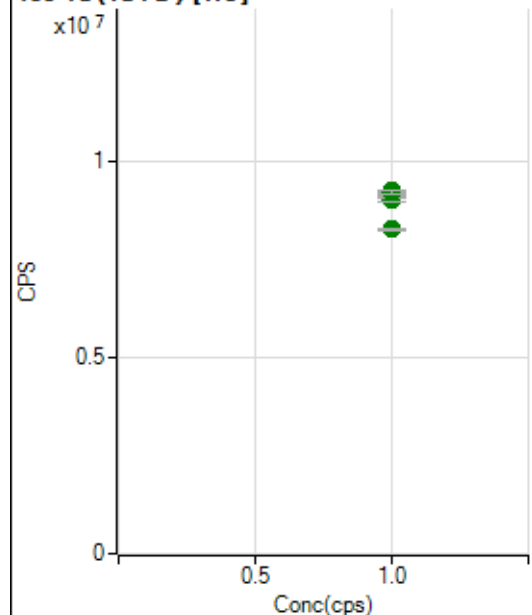
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		9851413.58		A	1.1
2	☐	1.000		9783872.08		A	3.0
3	☐	1.000		10403003.53		A	3.8
4	☐	1.000		10000132.29		A	1.5
5	☐	1.000		9756261.11		A	1.2
6	☐	1.000		9719809.32		A	1.1
7	☐	1.000		9996928.61		A	4.8
8	☐	1.000		8471802.10		A	3.8

115 In (ISTD) [He]

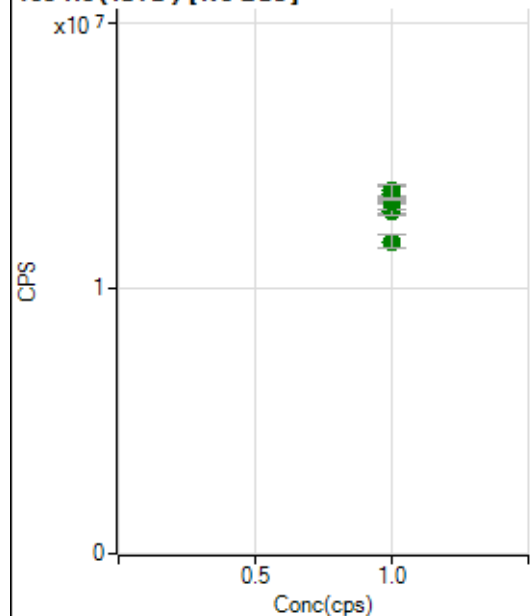
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3605301.56		A	0.7
2	☐	1.000		3583394.45		A	1.2
3	☐	1.000		3604247.38		A	2.1
4	☐	1.000		3483346.47		A	1.4
5	☐	1.000		3483071.80		A	0.6
6	☐	1.000		3426704.71		A	0.4
7	☐	1.000		3385090.94		A	0.6
8	☐	1.000		3064147.27		A	1.6

159 Tb (ISTD) [No Gas]

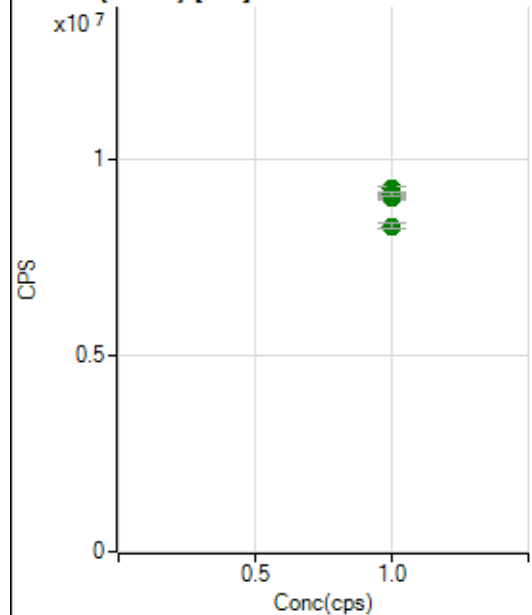
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		13099041.47		A	0.3
2	☐	1.000		13117937.44		A	3.5
3	☐	1.000		14022870.07		A	3.8
4	☐	1.000		13599542.57		A	1.1
5	☐	1.000		13527332.30		A	1.4
6	☐	1.000		13623839.80		A	1.0
7	☐	1.000		14231613.82		A	5.2
8	☐	1.000		12006157.74		A	4.2

159 Tb (ISTD) [He]

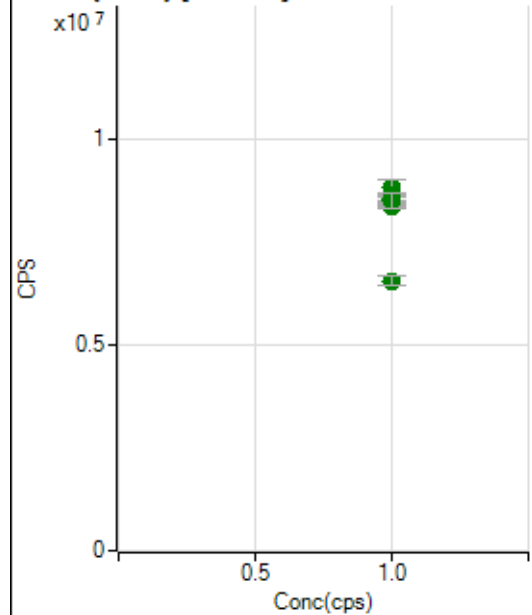
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		9080043.82		A	0.8
2	☐	1.000		9142539.93		A	0.9
3	☐	1.000		9230829.38		A	0.5
4	☐	1.000		9018405.14		A	1.1
5	☐	1.000		9242208.40		A	0.8
6	☐	1.000		9212177.57		A	0.9
7	☐	1.000		9208753.89		A	1.2
8	☐	1.000		8272626.61		A	0.6

165 Ho (ISTD) [No Gas]

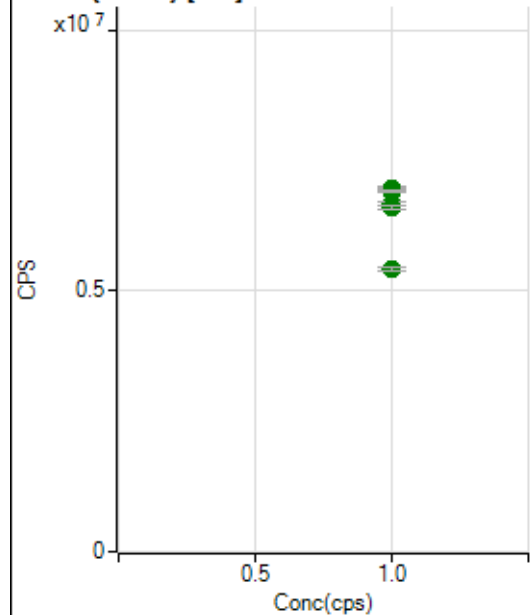
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		12883201.20		A	1.2
2	☐	1.000		12863966.34		A	1.5
3	☐	1.000		13542875.91		A	4.1
4	☐	1.000		13314094.66		A	1.7
5	☐	1.000		13254827.58		A	0.5
6	☐	1.000		13314393.27		A	0.5
7	☐	1.000		13653632.02		A	3.8
8	☐	1.000		11752650.80		A	4.0

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		9010425.49		A	1.3
2	☐	1.000		8997055.91		A	0.2
3	☐	1.000		9023744.03		A	1.6
4	☐	1.000		9086480.49		A	0.2
5	☐	1.000		9248738.40		A	1.4
6	☐	1.000		9084567.92		A	1.9
7	☐	1.000		9105899.38		A	1.2
8	☐	1.000		8289608.90		A	1.7

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		8456151.33		A	0.7
2	☐	1.000		8361831.33		A	0.5
3	☐	1.000		8797870.56		A	4.5
4	☐	1.000		8634482.37		A	0.7
5	☐	1.000		8543485.36		A	1.2
6	☐	1.000		8374984.67		A	0.2
7	☐	1.000		8495659.46		A	4.2
8	☐	1.000		6544895.32		A	3.2

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6959227.40		A	0.4
2	☐	1.000		6921953.16		A	0.9
3	☐	1.000		6945422.19		A	1.9
4	☐	1.000		6934509.69		A	0.7
5	☐	1.000		6915286.42		A	0.5
6	☐	1.000		6680457.75		A	1.2
7	☐	1.000		6592013.51		A	1.1
8	☐	1.000		5419694.50		A	1.2

US EPA Tune Check Report

Operator Name Jaswal

Acq/Data Batch D:\Agilent\ICPMH\1\DATA\IP7032323-MS.b

Acq. Date-Time 2023-03-23 12:14:24

Report Comment ---

Instrument Name G8403A JP14410463

[No Gas]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
9		16463	164628.07			0.131	5.000
24		173460	1734595.30			1.051	5.000
25		23410	234104.56			0.145	5.000
26		27065	270653.30			0.520	5.000
59		119189	1191886.20			0.439	5.000
113		12993	129929.12			0.239	5.000
115		176220	1762201.36			0.526	5.000
206		41797	417970.53			0.226	5.000
207		38858	388581.68			0.281	5.000
208		93437	934371.46			0.556	5.000
220		0	2.70			46.481	

Mass	RSD% (Flag)
9	
24	
25	
26	
59	
113	
115	
206	
207	
208	
220	

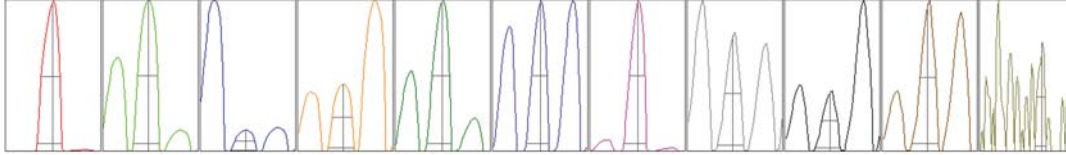
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	16496	16450	16470	16440	16459
24	172625	172608	174475	171491	176098
25	23355	23437	23403	23436	23422
26	26815	27117	27123	27123	27149
59	118708	118553	119450	119731	119501
113	12975	13025	12998	12949	13018
115	177047	177087	176471	175400	175096
206	41639	41882	41809	41798	41857
207	38778	38966	38789	38769	38989
208	93678	94009	92800	92980	93719

US EPA Tune Check Report

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
220	0	0	0	0	0

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	29687.19	9.00	8.90 - 9.10	
24	287970.21	23.95	23.90 - 24.10	
25	39251.94	24.95	24.90 - 25.10	
26	44343.71	25.95	25.90 - 26.10	
59	225345.90	59.00	58.90 - 59.10	
113	27541.68	113.05	112.90 - 113.10	
115	369797.38	115.05	114.90 - 115.10	
206	83058.39	205.95	205.90 - 206.10	
207	76357.94	206.95	206.90 - 207.10	
208	188056.36	207.95	207.90 - 208.10	
220	0.50	220.50	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.59	0.781	0.900	
24	0.64	0.821	0.900	
25	0.62	0.813	0.900	
26	0.64	0.824	0.900	
59	0.54	0.783	0.900	
113	0.48	0.724	0.900	
115	0.49	0.720	0.900	
206	0.51	0.827	0.900	
207	0.50	0.778	0.900	
208	0.50	0.843	0.900	
220	0.27	0.342		

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode --- Nebulizer Gas 0.82 L/min Dilution Gas 0.40 L/min

US EPA Tune Check Report

RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.80 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	9.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	9.0 V	Deflect	15.4 V
Extract 2	-120.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-70 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	---	OctP RF	190 V		

QP Parameters

Mass Gain	122	Axis Gain	1.0002	QP Bias	-3.0 V
Mass Offset	125	Axis Offset	-0.01		

Hardware Settings

Torch

Torch H	-0.9 mm	Torch V	1.1 mm
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EM

Discriminator	3.2 mV	Analog HV	2258 V	Pulse HV	1490 V
---------------	--------	-----------	--------	----------	--------

[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		39280	392798.47			0.370	
89		74471	744706.81			0.413	
205		40809	408094.23			1.036	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	39357	39094	39214	39257	39477
89	74470	74598	73942	74648	74695
205	40865	40504	40392	40811	41476

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.82 L/min	Dilution Gas	0.40 L/min
RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.80 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	9.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	9.2 V	Deflect	3.8 V
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US EPA Tune Check Report

Extract 2	-125.0 V	Cell Entrance	-40 V	Plate Bias	-60 V
Omega Bias	-70 V	Cell Exit	-60 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	3.9 mL/min	OctP Bias	-18.0 V		
H2 Flow	---	OctP RF	200 V		

QP Parameters

Mass Gain	122	Axis Gain	1.0002	QP Bias	-13.0 V
Mass Offset	125	Axis Offset	-0.01		

Hardware Settings

Torch

Torch H	-0.9 mm	Torch V	1.1 mm
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EM

Discriminator	3.2 mV	Analog HV	2258 V	Pulse HV	1490 V
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