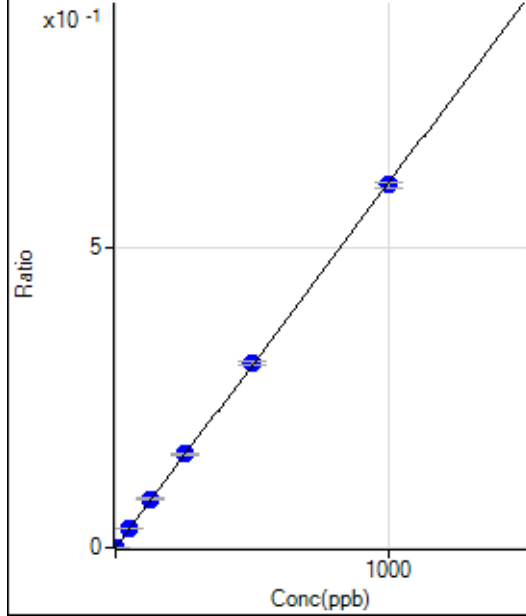


Batch Folder: D:\Agilent\ICPMH\1\DATA\P7011224 MS.b\
Analysis File: P7011224 MS.batch.bin
DA Date-Time: 2024-01-15 17:31:12
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.d	S00	2024-01-12 14:33:18
2	005CALS.d	S02	2024-01-12 14:36:34
3	006CALS.d	S03	2024-01-12 14:39:53
4	007CALS.d	S04	2024-01-12 14:43:01
5	008CALS.d	S05	2024-01-12 14:46:01
6	009CALS.d	S06	2024-01-12 14:48:54
7	010CALS.d	S07	2024-01-12 14:51:45
8	011CALS.d	S08	2024-01-12 14:54:32

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	78.89	0.0000	P	13.9
2	☐	1.000	1.033	1177.83	0.0007	P	9.9
3	☐	50.000	53.116	55771.71	0.0324	P	3.4
4	☐	125.000	133.400	132573.40	0.0813	P	3.7
5	☐	250.000	256.176	253271.48	0.1561	P	1.4
6	☐	500.000	504.932	485582.01	0.3077	P	2.1
7	☐	1000.000	994.784	931872.24	0.6062	P	1.3
8	☐			364.45	0.0003	P	7.0

$$y = 6.0930E-004 * x + 4.5730E-005$$

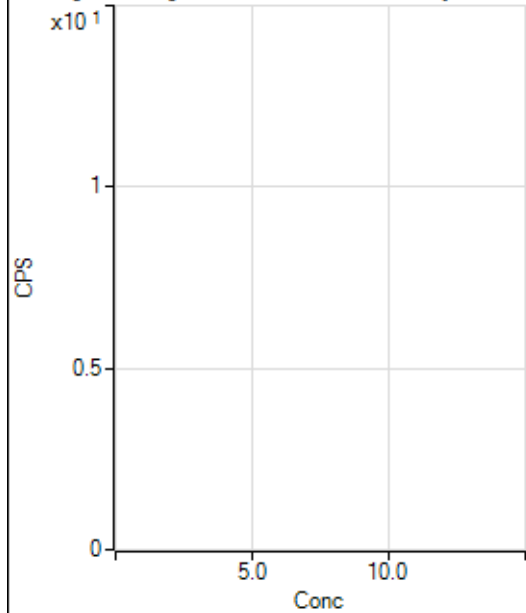
$$R = 0.9999$$

$$DL = 0.03139$$

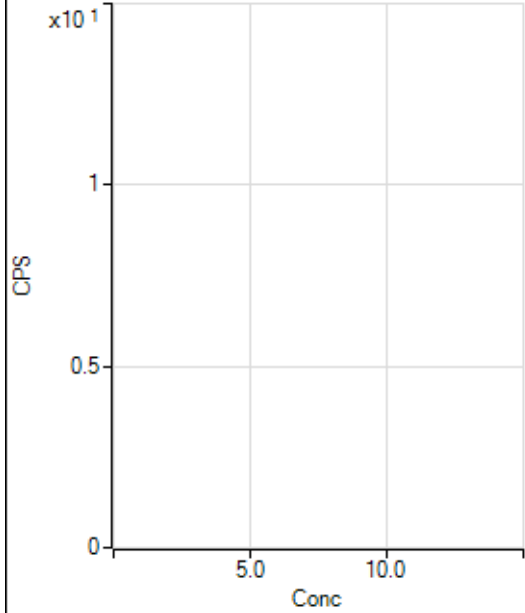
$$BEC = 0.07505$$

Weight: <None>

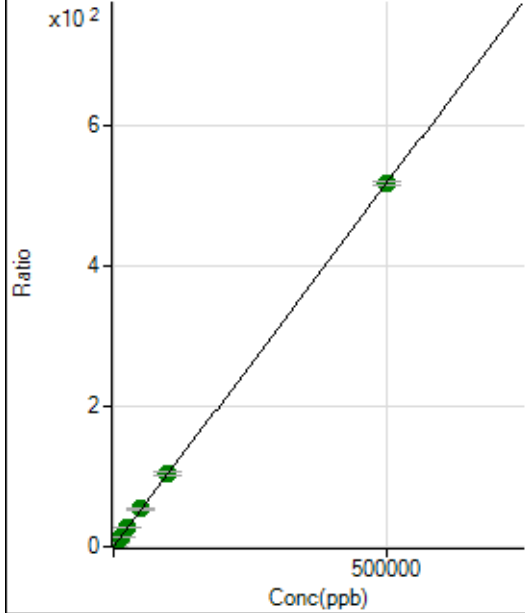
Min Conc: 0

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	8525.76	0.0266	P	1.9
2	☐	500.000	510.590	179419.46	0.5558	P	0.7
3	☐	5000.000	5303.275	1651223.38	5.5229	A	0.7
4	☐	12500.000	12976.572	4050492.44	13.4756	A	0.4
5	☐	25000.000	26055.617	7901090.86	27.0307	A	0.3
6	☐	50000.000	51668.722	15625832.68	53.5763	A	1.5
7	☐	100000.00	100497.83	30122737.61	104.1829	A	2.9
8	☐	500000.00	499665.82	140355413.4	517.8821	A	0.9

$$y = 0.0010 * x + 0.0266$$

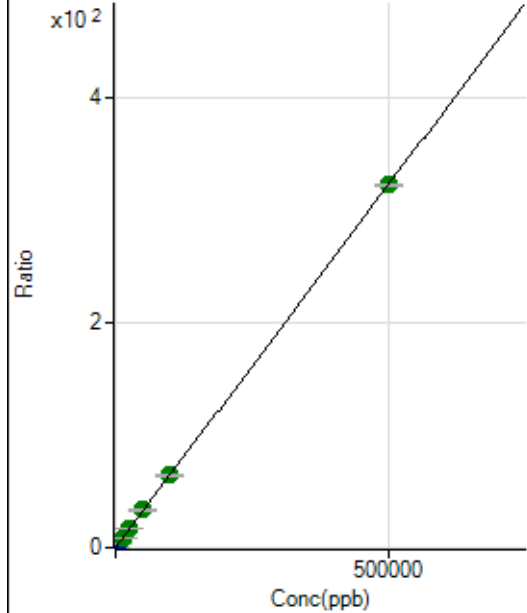
$$R = 1.0000$$

$$DL = 1.499$$

$$BEC = 25.68$$

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	338.89	0.0011	P	4.7
2	☐	500.000	518.924	108444.19	0.3359	P	1.2
3	☐	5000.000	5461.258	1053973.54	3.5254	P	0.4
4	☐	12500.000	13109.697	2543152.27	8.4611	A	0.9
5	☐	25000.000	26326.086	4966177.11	16.9900	A	0.2
6	☐	50000.000	51719.759	9734743.19	33.3772	A	1.2
7	☐	100000.00	100456.08	18744848.75	64.8280	A	2.5
8	☐	500000.00	499650.62	87387212.03	322.4388	A	0.9

$$y = 6.4533\text{E-}004 * x + 0.0011$$

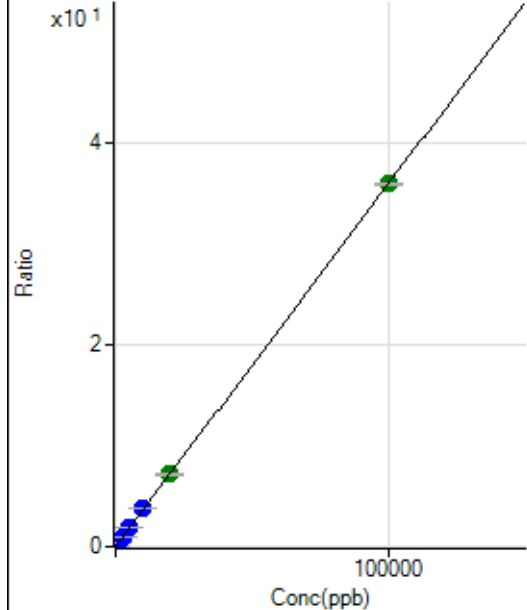
$$R = 1.0000$$

$$DL = 0.2303$$

$$BEC = 1.639$$

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	118.89	0.0004	P	3.9
2	☐	20.000	20.681	2520.23	0.0078	P	1.2
3	☐	1000.000	1072.345	115370.24	0.3859	P	1.2
4	☐	2500.000	2683.618	290125.70	0.9652	P	0.4
5	☐	5000.000	5345.726	561896.51	1.9223	P	0.4
6	☐	10000.000	10571.828	1108728.39	3.8013	P	0.1
7	☐	20000.000	19899.744	2068587.78	7.1550	A	3.5
8	☐	100000.00	99940.268	9738322.49	35.9323	A	0.9

$$y = 3.5953\text{E-}004 * x + 3.7102\text{E-}004$$

$$R = 1.0000$$

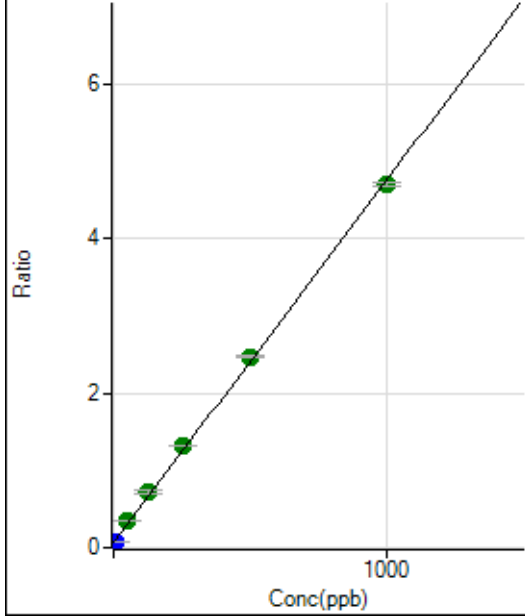
$$DL = 0.1221$$

$$BEC = 1.032$$

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	255486.43	0.0661	P	0.8
2	☐	10.000	1.021	272577.31	0.0709	P	1.4
3	☐	50.000	59.110	1267555.78	0.3435	A	2.1
4	☐	125.000	139.604	2516432.74	0.7212	A	3.9
5	☐	250.000	265.688	4522832.09	1.3129	A	0.5
6	☐	500.000	512.863	8384414.67	2.4727	A	1.0
7	☐	1000.000	987.455	15760263.52	4.6998	A	1.0
8	☐			627189.49	0.1936	P	8.2

$$y = 0.0047 * x + 0.0661$$

$$R = 0.9995$$

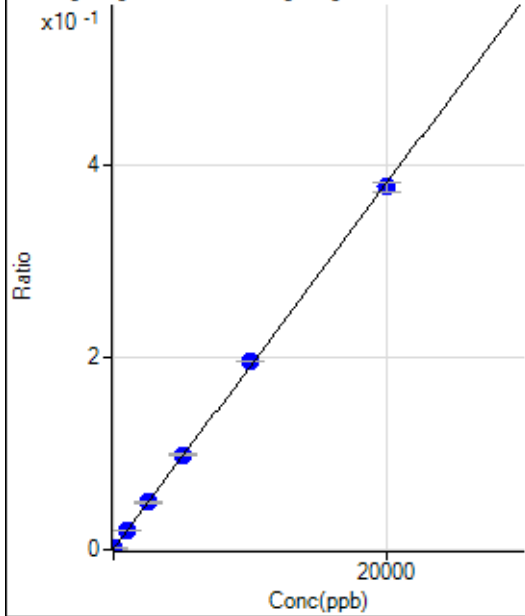
$$DL = 0.3283$$

$$BEC = 14.09$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	-14.437	213.34	0.0007	P	16.3
2	☐	0.000	14.437	392.23	0.0012	P	4.3
3	☐	1000.000	1022.697	6095.72	0.0204	P	1.8
4	☐	2500.000	2543.663	14823.94	0.0493	P	1.8
5	☐	5000.000	5157.671	28945.16	0.0990	P	0.4
6	☐	10000.000	10301.257	57413.73	0.1968	P	0.2
7	☐	20000.000	19803.361	109162.36	0.3775	P	2.9
8	☐			271.12	0.0010	P	7.4

$$y = 1.9017E-005 * x + 9.4026E-004$$

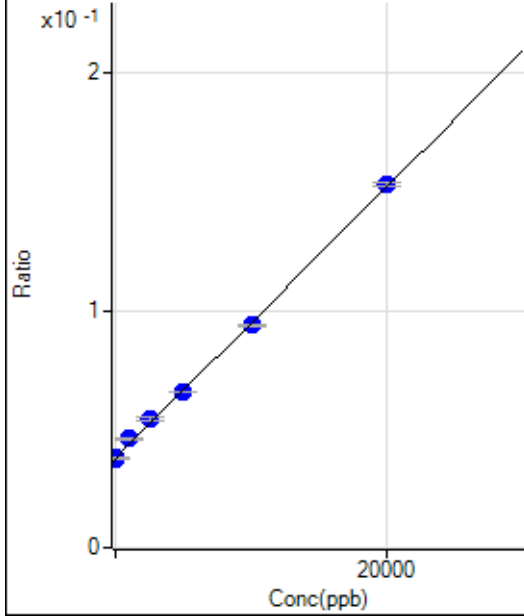
$$R = 0.9998$$

$$DL = 12.67$$

$$BEC = 49.44$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	-45.423	144753.36	0.0375	P	1.3
2	☐	0.000	45.423	145995.01	0.0380	P	1.7
3	☐	1000.000	1426.901	169375.01	0.0459	P	2.0
4	☐	2500.000	2904.560	189774.86	0.0544	P	2.2
5	☐	5000.000	4878.244	226290.81	0.0657	P	0.5
6	☐	10000.000	9766.867	317792.37	0.0937	P	0.4
7	☐	20000.000	20075.091	512464.44	0.1528	P	1.0
8	☐			107644.19	0.0332	P	2.5

$$y = 5.7340\text{E-}006 * x + 0.0377$$

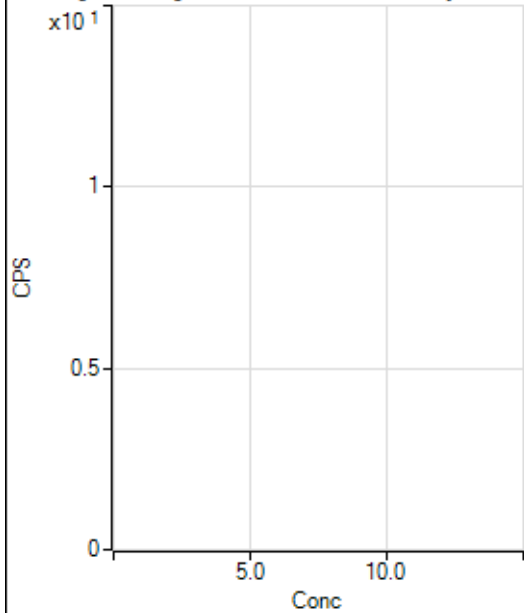
R = 0.9994

DL = 298.6

BEC = 6578

Weight: <None>

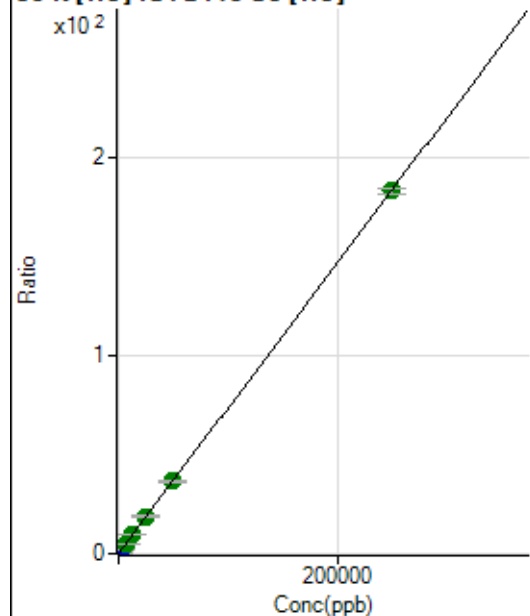
Min Conc: 0

35 Cl [No Gas] No available calibration points

	Rj 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	35509.16	0.1108	P	0.5
2	☐	500.000	520.717	158746.53	0.4918	P	1.4
3	☐	2500.000	2742.291	632912.29	2.1170	P	0.6
4	☐	6250.000	6470.521	1456109.25	4.8444	A	0.7
5	☐	12500.000	12937.327	2798868.33	9.5753	A	0.5
6	☐	25000.000	25682.923	5512503.11	18.8994	A	0.7
7	☐	50000.000	49769.337	10560390.26	36.5201	A	2.0
8	☐	250000.00	249947.99	49585142.04	182.9627	A	1.3

$$y = 7.3156E-004 * x + 0.1108$$

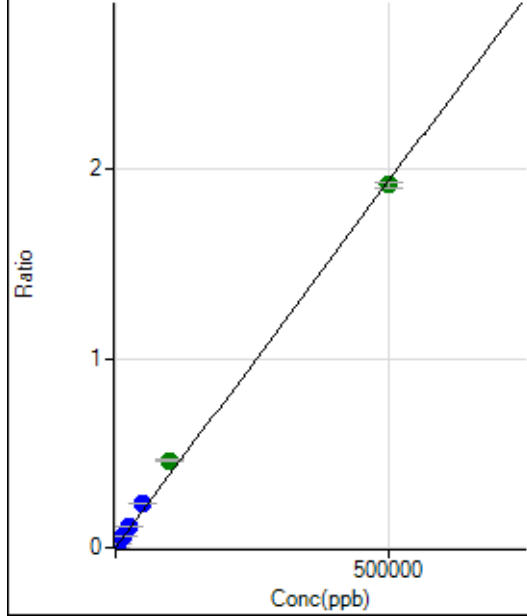
$$R = 1.0000$$

$$DL = 2.256$$

$$BEC = 151.5$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	315.56	0.0001	P	19.5
2	☐	500.000	515.011	7989.95	0.0021	P	3.0
3	☐	5000.000	6247.766	89698.50	0.0243	P	1.7
4	☐	12500.000	15507.423	210046.68	0.0602	P	4.4
5	☐	25000.000	30097.856	402301.61	0.1168	P	0.2
6	☐	50000.000	60038.062	789515.30	0.2329	P	1.9
7	☐	100000.00	118663.76	1542905.69	0.4602	A	2.3
8	☐	500000.00	494920.86	6220420.39	1.9190	A	1.9

$$y = 3.8772\text{E-}006 * x + 8.1642\text{E-}005$$

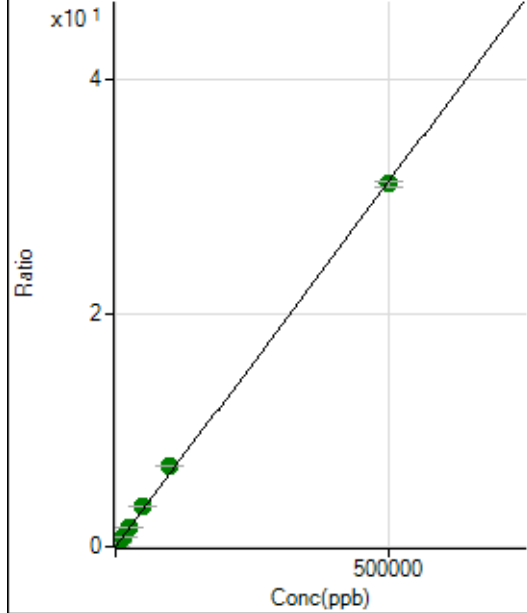
$$R = 0.9992$$

$$DL = 12.29$$

$$BEC = 21.06$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	5352.52	0.0014	P	1.9
2	☐	500.000	519.109	130084.57	0.0338	P	1.3
3	☐	5000.000	5608.156	1298962.98	0.3520	A	1.2
4	☐	12500.000	13981.467	3054464.92	0.8754	A	3.9
5	☐	25000.000	27316.878	5887700.33	1.7091	A	0.6
6	☐	50000.000	54657.814	11589926.63	3.4182	A	1.5
7	☐	100000.00	110433.74	23152707.99	6.9050	A	1.8
8	☐	500000.00	497288.48	100768855.1	31.0886	A	1.8

$$y = 6.2513\text{E-}005 * x + 0.0014$$

$$R = 0.9998$$

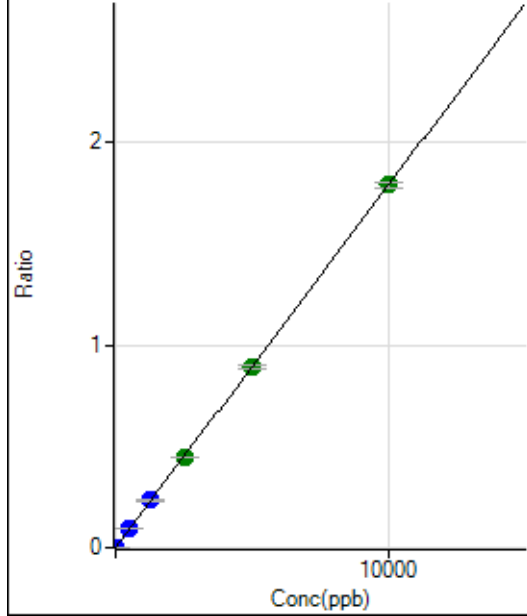
$$DL = 1.283$$

$$BEC = 22.16$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	56.66	0.0000	P	27.4
2	☐	5.000	4.957	3465.98	0.0009	P	1.4
3	☐	500.000	521.466	344350.22	0.0933	P	1.9
4	☐	1250.000	1302.799	813339.41	0.2331	P	3.8
5	☐	2500.000	2504.116	1543467.20	0.4480	A	0.6
6	☐	5000.000	4979.539	3020612.84	0.8909	A	1.8
7	☐	10000.000	10001.528	6000133.73	1.7894	A	1.4
8	☐			1185.61	0.0004	P	11.0

$$y = 1.7891E-004 * x + 1.4673E-005$$

$$R = 1.0000$$

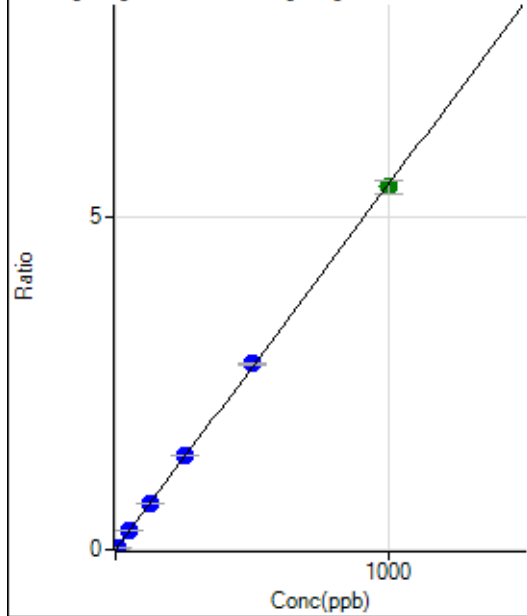
$$DL = 0.06745$$

$$BEC = 0.08201$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2.22	0.0000	P	86.6
2	☐	5.000	4.821	8553.62	0.0265	P	3.9
3	☐	50.000	52.119	85624.41	0.2864	P	1.3
4	☐	125.000	128.218	211773.06	0.7045	P	0.3
5	☐	250.000	256.154	411415.31	1.4075	P	0.4
6	☐	500.000	509.013	815782.73	2.7969	P	0.5
7	☐	1000.000	993.448	1578248.88	5.4588	A	3.4
8	☐			494.46	0.0018	P	8.0

$$y = 0.0055 * x + 6.9398E-006$$

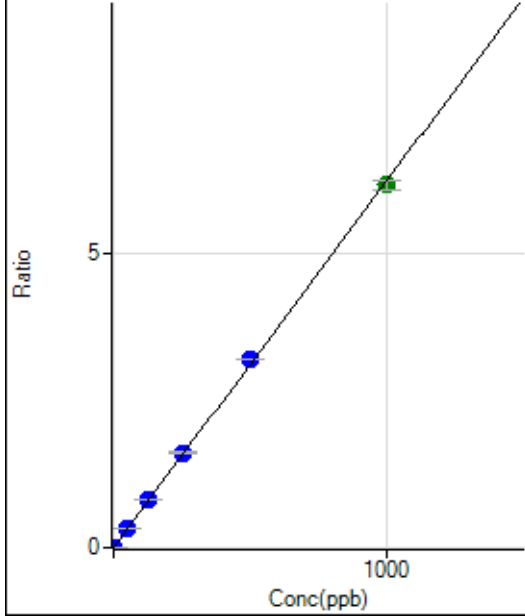
$$R = 0.9999$$

$$DL = 0.003281$$

$$BEC = 0.001263$$

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	810.03	0.0025	P	2.7
2	☐	2.000	1.936	4705.23	0.0146	P	3.9
3	☐	50.000	53.026	99429.08	0.3326	P	0.3
4	☐	125.000	129.115	242316.19	0.8062	P	0.8
5	☐	250.000	259.067	472050.09	1.6150	P	1.4
6	☐	500.000	513.924	933736.24	3.2013	P	0.2
7	☐	1000.000	990.106	1782668.95	6.1652	A	2.6
8	☐			10709.45	0.0395	P	2.4

$$y = 0.0062 * x + 0.0025$$

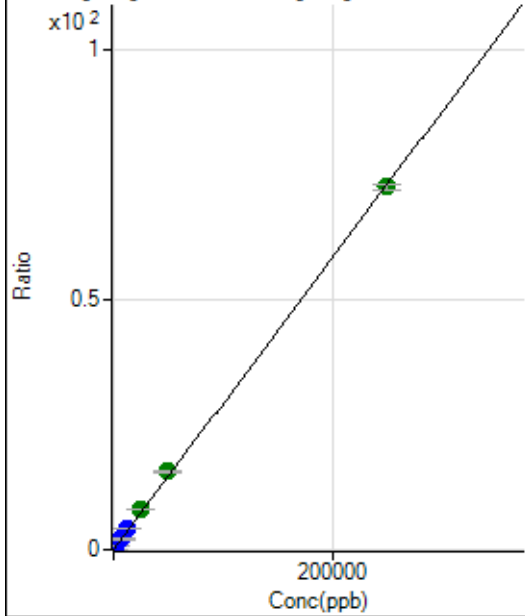
$$R = 0.9998$$

$$DL = 0.03279$$

$$BEC = 0.4062$$

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	1008.93	0.0031	P	3.3
2	☐	50.000	55.175	6215.78	0.0193	P	1.4
3	☐	2500.000	2934.510	257029.17	0.8597	P	0.8
4	☐	6250.000	7264.052	638300.35	2.1235	P	0.6
5	☐	12500.000	14546.220	1242033.81	4.2492	P	0.7
6	☐	25000.000	27308.865	2325890.17	7.9746	A	1.5
7	☐	50000.000	53562.233	4521719.34	15.6380	A	2.5
8	☐	250000.00	248924.65	19693030.40	72.6645	A	1.3

$$y = 2.9190E-004 * x + 0.0031$$

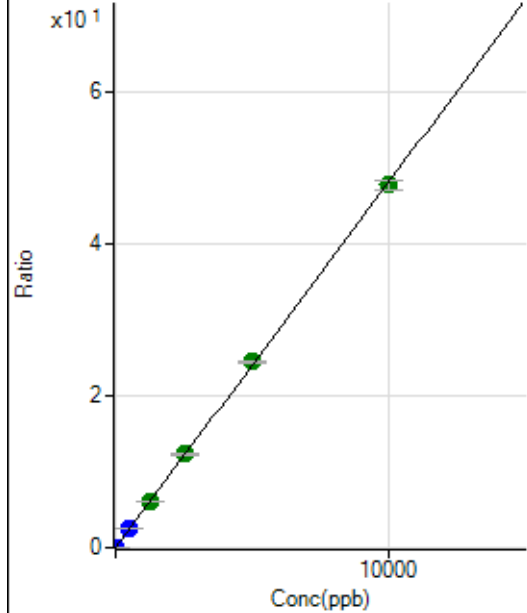
$$R = 0.9999$$

$$DL = 1.076$$

$$BEC = 10.79$$

Weight: <None>

Min Conc: 0

⁵⁵Mn [He] ISTD:45 Sc [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	77.78	0.0002	P	26.0
2	☐	1.000	0.982	1603.43	0.0050	P	2.6
3	☐	500.000	529.697	761521.11	2.5471	P	0.4
4	☐	1250.000	1274.459	1842127.09	6.1281	A	1.5
5	☐	2500.000	2559.280	3596906.34	12.3057	A	1.0
6	☐	5000.000	5095.695	7146102.18	24.5013	A	0.9
7	☐	10000.000	9932.790	13809131.18	47.7589	A	2.7
8	☐			10548.22	0.0389	P	2.4

$$y = 0.0048 * x + 2.4284E-004$$

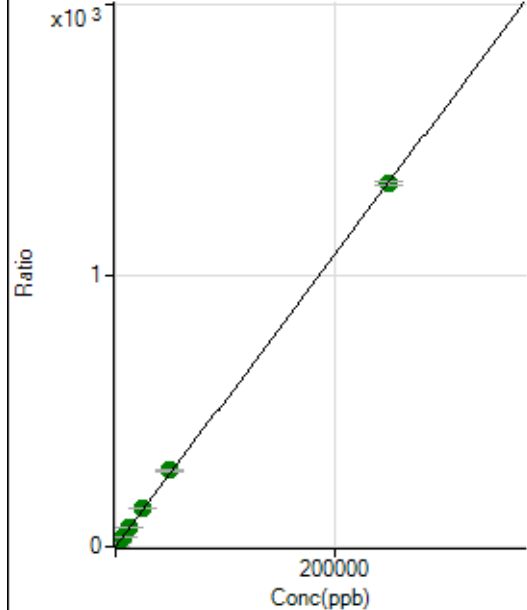
$$R = 0.9999$$

$$DL = 0.03946$$

$$BEC = 0.0505$$

Weight: <None>

Min Conc: 0

⁵⁶Fe [He] ISTD:45 Sc [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	7646.47	0.0239	P	2.9
2	☐	50.000	54.626	102277.93	0.3168	P	0.5
3	☐	2500.000	2753.027	4421395.25	14.7883	A	0.8
4	☐	6250.000	6830.884	11018976.50	36.6579	A	0.3
5	☐	12500.000	13597.434	21322662.74	72.9468	A	0.1
6	☐	25000.000	26901.486	42086845.49	144.2964	A	0.3
7	☐	50000.000	52535.968	81473144.34	281.7740	A	2.6
8	☐	250000.00	249230.73	362254505.7	1,336.646	A	1.0

$$y = 0.0054 * x + 0.0239$$

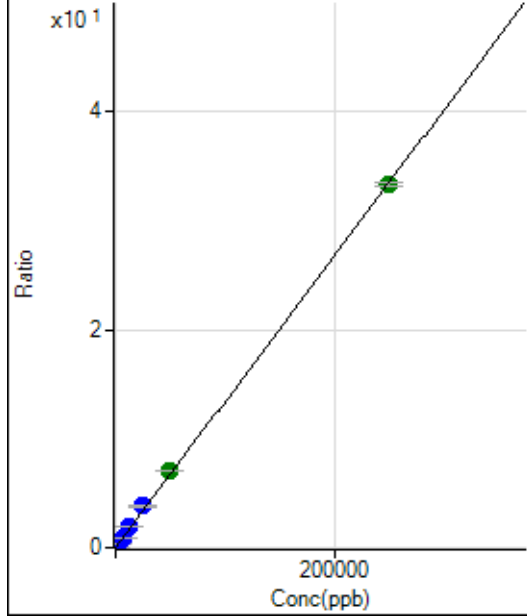
$$R = 0.9999$$

$$DL = 0.386$$

$$BEC = 4.45$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	464.46	0.0014	P	11.2
2	☐	50.000	55.537	2861.41	0.0089	P	5.0
3	☐	2500.000	2909.164	116559.68	0.3899	P	1.4
4	☐	6250.000	7204.535	289558.74	0.9633	P	0.5
5	☐	12500.000	14376.183	561461.45	1.9208	P	0.3
6	☐	25000.000	28382.299	1105665.58	3.7908	P	0.3
7	☐	50000.000	52576.072	2030410.70	7.0210	A	1.4
8	☐	250000.00	249024.79	9011009.66	33.2492	A	1.2

$$y = 1.3351\text{E-}004 * x + 0.0014$$

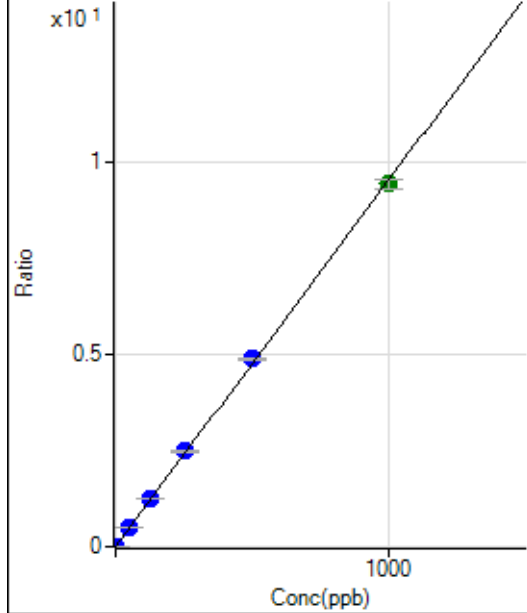
$$R = 0.9999$$

$$DL = 3.66$$

$$BEC = 10.86$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	36.66	0.0001	P	31.5
2	☐	1.000	1.071	3337.06	0.0103	P	1.3
3	☐	50.000	53.867	153684.00	0.5140	P	0.1
4	☐	125.000	130.112	373171.53	1.2415	P	0.2
5	☐	250.000	260.068	725276.86	2.4814	P	1.1
6	☐	500.000	512.791	1426978.99	4.8925	P	0.7
7	☐	1000.000	990.255	2731887.94	9.4479	A	2.4
8	☐			7336.31	0.0271	P	2.3

$$y = 0.0095 * x + 1.1444\text{E-}004$$

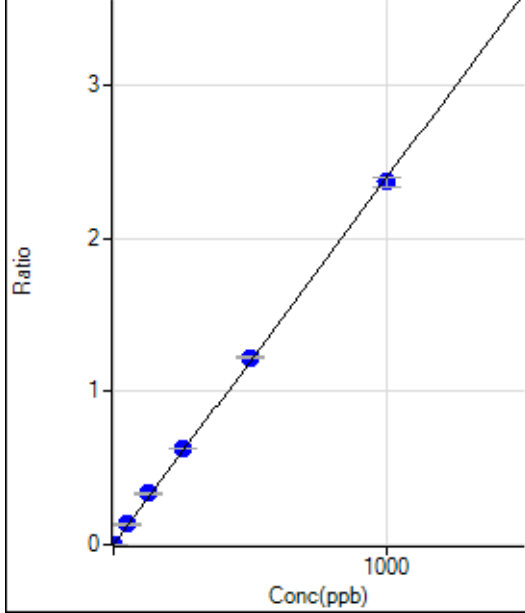
$$R = 0.9998$$

$$DL = 0.01135$$

$$BEC = 0.012$$

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	91.11	0.0003	P	24.3
2	☐	1.000	0.992	857.81	0.0027	P	5.8
3	☐	50.000	54.972	39393.74	0.1318	P	0.5
4	☐	125.000	138.987	100005.96	0.3327	P	0.2
5	☐	250.000	262.445	183562.65	0.6280	P	0.2
6	☐	500.000	511.111	356629.72	1.2227	P	0.6
7	☐	1000.000	989.336	684288.49	2.3665	P	2.4
8	☐			3078.12	0.0114	P	1.0

$$y = 0.0024 * x + 2.8434E-004$$

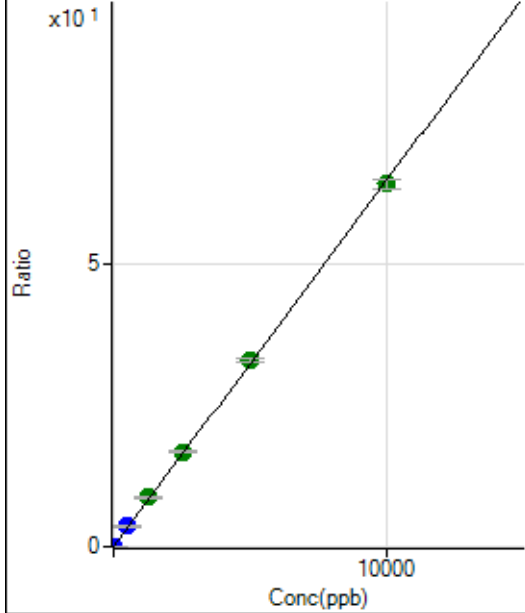
$$R = 0.9998$$

$$DL = 0.08665$$

$$BEC = 0.1189$$

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	1507.87	0.0047	P	5.1
2	☐	2.000	2.070	5838.97	0.0181	P	2.7
3	☐	500.000	551.389	1067053.74	3.5692	P	0.7
4	☐	1250.000	1344.875	2614575.72	8.6987	A	1.1
5	☐	2500.000	2598.375	4911273.74	16.8020	A	0.3
6	☐	5000.000	5104.720	9625830.55	33.0043	A	1.7
7	☐	10000.000	9908.618	18522211.39	64.0593	A	2.8
8	☐			6481.46	0.0239	P	1.0

$$y = 0.0065 * x + 0.0047$$

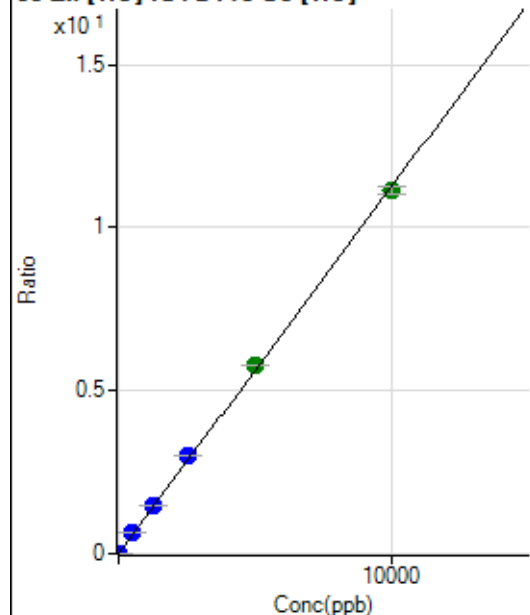
$$R = 0.9998$$

$$DL = 0.1108$$

$$BEC = 0.7281$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	514.46	0.0016	P	15.8
2	☐	5.000	6.145	2750.28	0.0085	P	4.1
3	☐	500.000	553.042	186560.43	0.6240	P	0.4
4	☐	1250.000	1323.811	448304.41	1.4915	P	0.4
5	☐	2500.000	2659.359	875311.83	2.9945	P	0.1
6	☐	5000.000	5124.443	1682572.89	5.7688	A	0.6
7	☐	10000.000	9886.060	3217784.50	11.1277	A	1.9
8	☐			5250.97	0.0194	P	1.2

$$y = 0.0011 * x + 0.0016$$

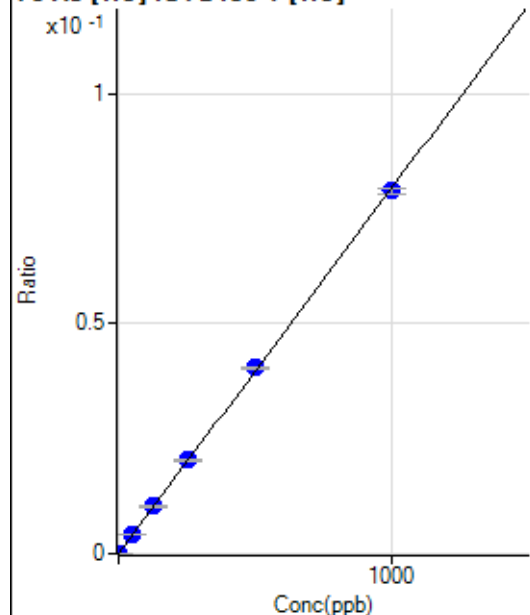
$$R = 0.9997$$

$$DL = 0.6775$$

$$BEC = 1.426$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	4.45	0.0000	P	86.6
2	☐	1.000	1.148	281.12	0.0001	P	6.7
3	☐	50.000	52.413	11973.80	0.0042	P	2.0
4	☐	125.000	129.691	29752.07	0.0103	P	1.5
5	☐	250.000	255.413	58103.07	0.0203	P	1.2
6	☐	500.000	509.617	115400.67	0.0405	P	1.2
7	☐	1000.000	993.131	224150.38	0.0789	P	1.7
8	☐			121.11	0.0000	P	12.6

$$y = 7.9461E-005 * x + 1.4606E-006$$

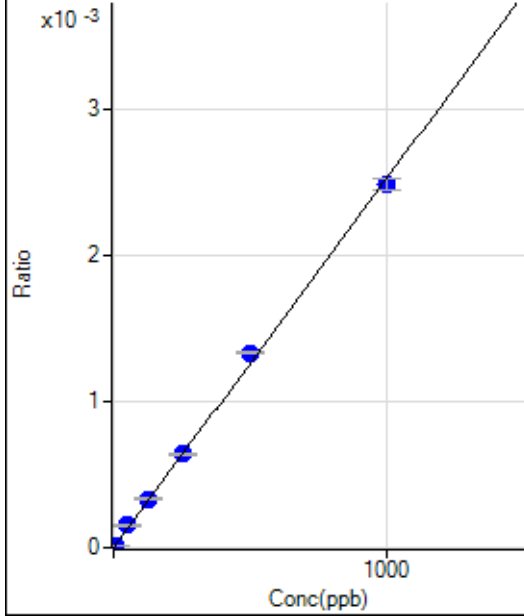
$$R = 0.9999$$

$$DL = 0.04776$$

$$BEC = 0.01838$$

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	6.099	46.67	0.0000	P	14.1
3	☐	50.000	61.336	444.46	0.0002	P	4.6
4	☐	125.000	131.468	956.71	0.0003	P	4.2
5	☐	250.000	253.701	1831.24	0.0006	P	1.3
6	☐	500.000	528.308	3796.08	0.0013	P	1.6
7	☐	1000.000	983.540	7042.85	0.0025	P	3.3
8	☐			28.89	0.0000	P	56.8

$$y = 2.5213\text{E-}006 * x + 0.0000\text{E+}000$$

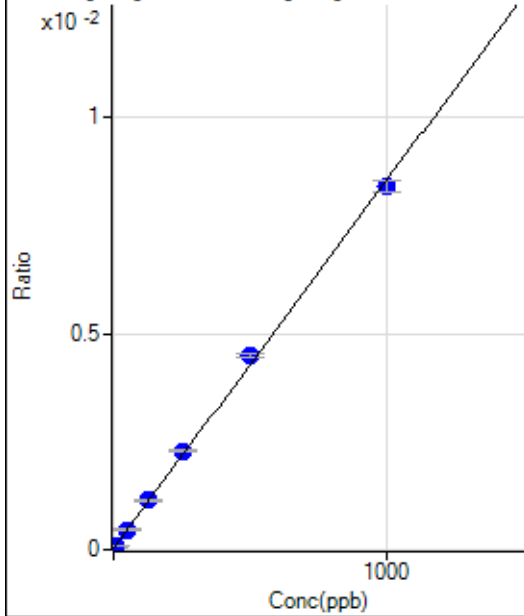
$$R = 0.9994$$

$$DL = 0$$

$$BEC = 0$$

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	90.00	0.0000	P	23.2
2	☐	5.000	6.114	247.78	0.0001	P	19.0
3	☐	50.000	50.777	1326.74	0.0005	P	7.4
4	☐	125.000	131.236	3308.18	0.0011	P	3.5
5	☐	250.000	264.951	6537.06	0.0023	P	3.1
6	☐	500.000	525.820	12830.09	0.0045	P	1.9
7	☐	1000.000	982.528	23822.57	0.0084	P	3.0
8	☐			226.67	0.0001	P	10.1

$$y = 8.5065\text{E-}006 * x + 2.9633\text{E-}005$$

$$R = 0.9994$$

$$DL = 2.425$$

$$BEC = 3.484$$

Weight: <None>

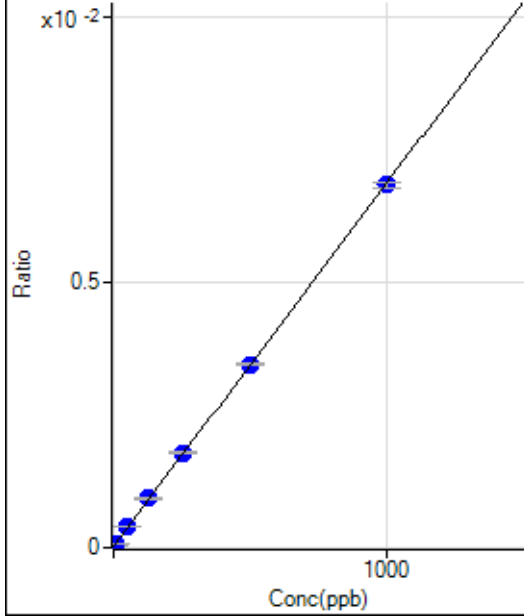
Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			9709.95		P	2.3
2	☐			9768.85		P	1.5
3	☐			9505.37		P	1.7
4	☐			8632.59		P	1.4
5	☐			8582.57		P	2.3
6	☐			8578.11		P	1.2
7	☐			8832.72		P	2.7
8	☐			10241.41		P	2.5

81 Br [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			62.22		P	11.1
2	☐			68.89		P	35.0
3	☐			65.56		P	36.1
4	☐			62.22		P	24.2
5	☐			63.33		P	36.5
6	☐			65.55		P	25.6
7	☐			73.33		P	16.4
8	☐			325.56		P	12.3

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	319.48	0.0000	P	13.1
2	☐	5.000	4.849	746.70	0.0001	P	6.7
3	☐	50.000	53.751	4935.60	0.0004	P	1.4
4	☐	125.000	133.953	11377.13	0.0009	P	3.6
5	☐	250.000	256.722	21706.63	0.0018	P	1.8
6	☐	500.000	501.585	42322.19	0.0035	P	1.7
7	☐	1000.000	996.221	82945.79	0.0068	P	1.4
8	☐			737.68	0.0001	P	3.4

$$y = 6.8449\text{E-}006 * x + 2.4490\text{E-}005$$

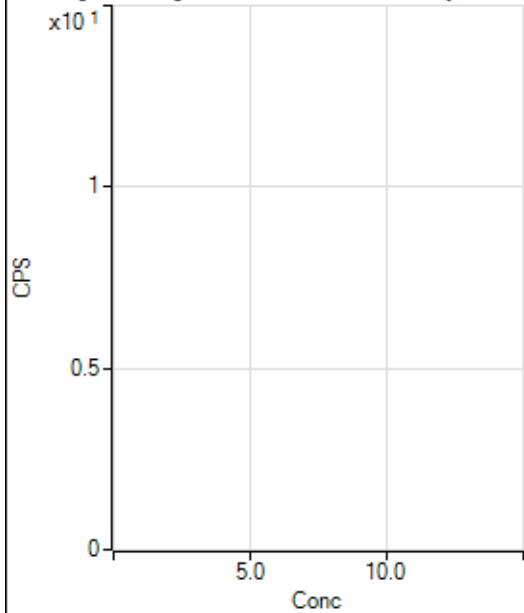
$$R = 0.9999$$

$$DL = 1.404$$

$$BEC = 3.578$$

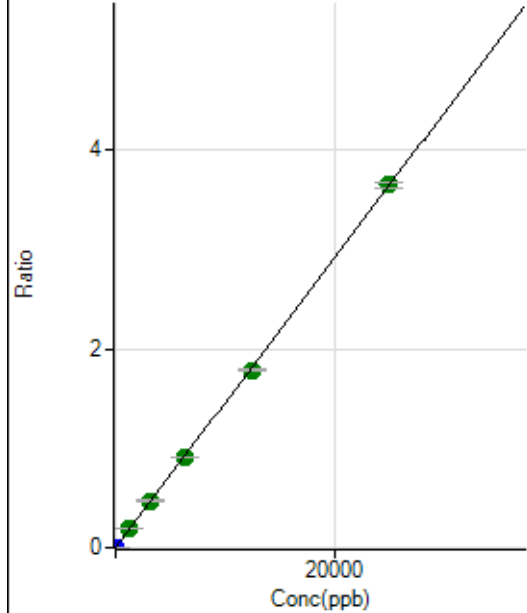
Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			90.00		P	6.4
2	☐			97.78		P	25.6
3	☐			97.78		P	10.4
4	☐			102.22		P	10.0
5	☐			104.45		P	8.0
6	☐			78.89		P	13.6
7	☐			81.11		P	15.6
8	☐			105.56		P	23.7

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	183.34	0.0000	P	8.0
2	☐	1.000	1.006	2076.84	0.0002	P	3.1
3	☐	1250.000	1291.011	2359537.57	0.1876	A	2.3
4	☐	3125.000	3234.227	5677705.54	0.4700	A	5.1
5	☐	6250.000	6274.935	11110289.14	0.9119	A	0.8
6	☐	12500.000	12277.449	21839165.23	1.7842	A	1.0
7	☐	25000.000	25089.338	44191728.78	3.6461	A	1.4
8	☐			6940.60	0.0006	P	1.3

$$y = 1.4532\text{E-}004 * x + 1.4048\text{E-}005$$

$$R = 0.9999$$

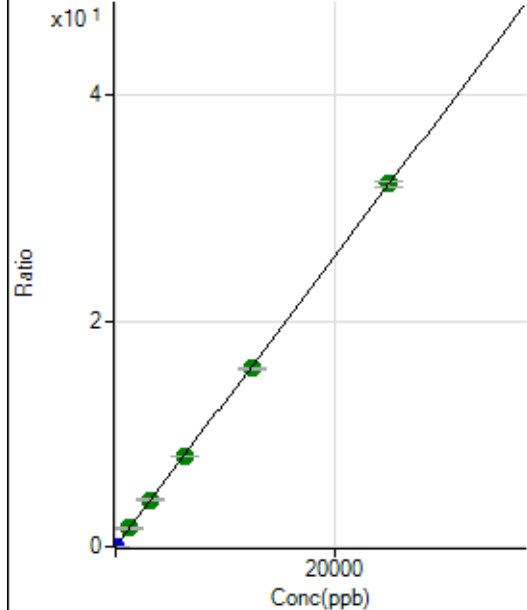
$$DL = 0.0231$$

$$BEC = 0.09667$$

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	87.78	0.0000	P	17.3
2	☐	1.000	0.982	16394.78	0.0013	P	1.5
3	☐	1250.000	1270.462	20484013.72	1.6290	A	3.1
4	☐	3125.000	3220.202	49880793.70	4.1291	A	4.8
5	☐	6250.000	6233.120	97370039.66	7.9923	A	1.6
6	☐	12500.000	12339.790	193667108.2	15.8225	A	1.3
7	☐	25000.000	25071.402	389636025.3	32.1475	A	1.3
8	☐			61209.27	0.0055	P	5.8

$$y = 0.0013 * x + 6.7286\text{E-}006$$

$$R = 1.0000$$

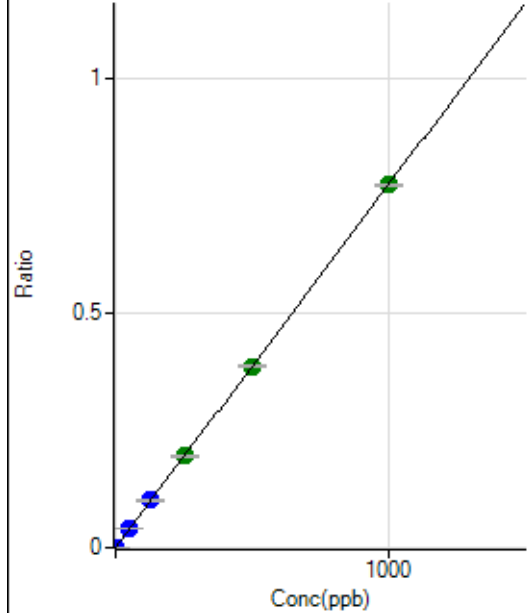
$$DL = 0.002722$$

$$BEC = 0.005248$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	424.46	0.0000	P	3.8
2	☐	1.000	0.983	10251.45	0.0008	P	4.9
3	☐	50.000	51.692	502307.61	0.0399	P	2.5
4	☐	125.000	130.055	1213479.67	0.1004	P	4.7
5	☐	250.000	252.211	2372550.99	0.1948	A	2.6
6	☐	500.000	498.571	4712145.73	0.3850	A	1.2
7	☐	1000.000	999.445	9353739.72	0.7717	A	0.6
8	☐			4607.44	0.0004	P	0.7

$$y = 7.7210\text{E-}004 * x + 3.2528\text{E-}005$$

$$R = 1.0000$$

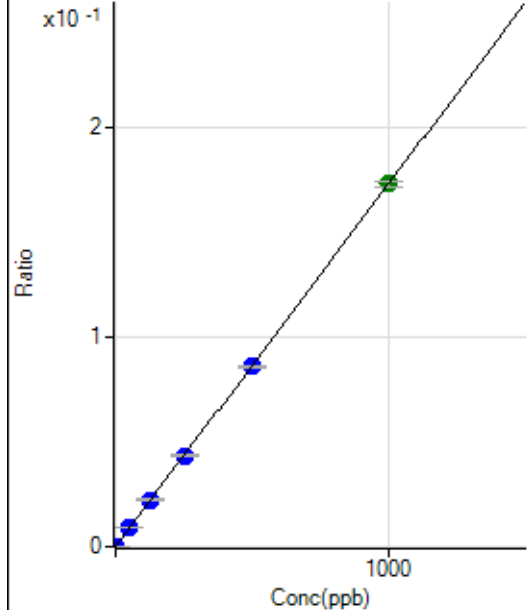
$$DL = 0.004762$$

$$BEC = 0.04213$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	78.89	0.0000	P	23.6
2	☐	1.000	0.990	2299.09	0.0002	P	10.1
3	☐	50.000	51.596	112488.98	0.0089	P	2.0
4	☐	125.000	128.757	269567.32	0.0223	P	4.4
5	☐	250.000	251.128	530051.75	0.0435	P	2.4
6	☐	500.000	497.710	1055454.66	0.0862	P	1.2
7	☐	1000.000	1000.313	2100374.48	0.1733	A	1.8
8	☐			993.38	0.0001	P	7.3

$$y = 1.7324\text{E-}004 * x + 6.0421\text{E-}006$$

$$R = 1.0000$$

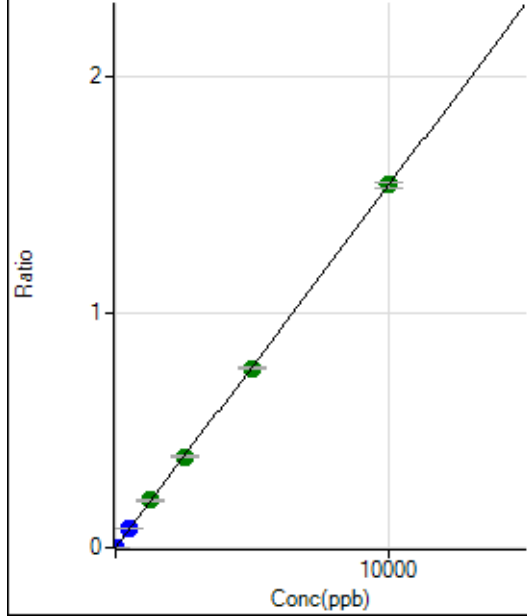
$$DL = 0.02473$$

$$BEC = 0.03488$$

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	215.56	0.0000	P	12.3
2	☐	5.000	5.837	11850.42	0.0009	P	2.0
3	☐	500.000	519.419	1005628.22	0.0800	P	2.4
4	☐	1250.000	1302.329	2422008.16	0.2005	A	4.6
5	☐	2500.000	2502.154	4692181.39	0.3852	A	1.8
6	☐	5000.000	4951.647	9329176.74	0.7622	A	1.4
7	☐	10000.000	10016.126	18685875.83	1.5417	A	1.7
8	☐			5705.61	0.0005	P	3.1

$$y = 1.5392E-004 * x + 1.6524E-005$$

$$R = 1.0000$$

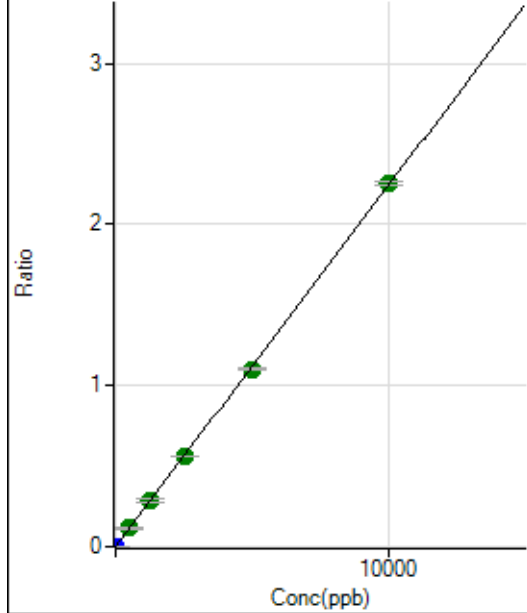
$$DL = 0.03955$$

$$BEC = 0.1074$$

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	95.55	0.0000	P	4.1
2	☐	5.000	4.902	14342.69	0.0011	P	0.6
3	☐	500.000	510.135	1439481.70	0.1145	A	2.9
4	☐	1250.000	1276.851	3460956.06	0.2865	A	5.2
5	☐	2500.000	2495.347	6821659.83	0.5599	A	1.3
6	☐	5000.000	4917.340	13505338.13	1.1034	A	1.5
7	☐	10000.000	10038.630	27301942.37	2.2526	A	1.2
8	☐			6611.55	0.0006	P	5.9

$$y = 2.2439E-004 * x + 7.3232E-006$$

$$R = 0.9999$$

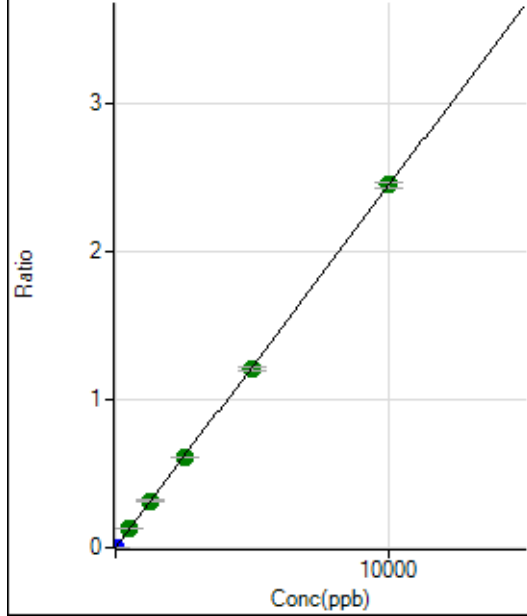
$$DL = 0.003993$$

$$BEC = 0.03264$$

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	104.44	0.0000	P	17.7
2	☐	5.000	4.905	15639.57	0.0012	P	0.5
3	☐	500.000	513.021	1577732.44	0.1255	A	2.3
4	☐	1250.000	1283.993	3794005.71	0.3140	A	3.9
5	☐	2500.000	2506.006	7465769.40	0.6128	A	1.3
6	☐	5000.000	4948.194	14809915.06	1.2100	A	1.6
7	☐	10000.000	10019.501	29695351.50	2.4501	A	1.6
8	☐			13217.17	0.0012	P	3.4

$$y = 2.4453\text{E-}004 * x + 8.0063\text{E-}006$$

$$R = 1.0000$$

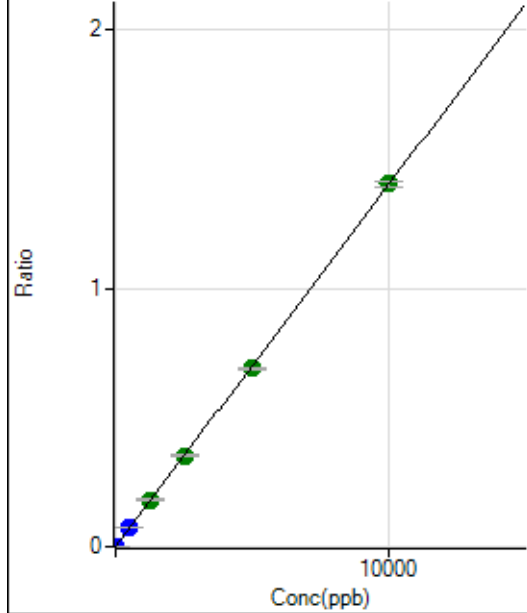
$$DL = 0.01743$$

$$BEC = 0.03274$$

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	26.4
2	☐	5.000	4.876	8867.21	0.0007	P	3.5
3	☐	500.000	517.665	911019.69	0.0724	P	2.3
4	☐	1250.000	1283.754	2170749.07	0.1796	A	3.9
5	☐	2500.000	2510.322	4279439.90	0.3513	A	2.2
6	☐	5000.000	4921.516	8429602.44	0.6887	A	1.7
7	☐	10000.000	10031.559	17013888.08	1.4038	A	1.7
8	☐			4235.10	0.0004	P	4.1

$$y = 1.3994\text{E-}004 * x + 2.4710\text{E-}006$$

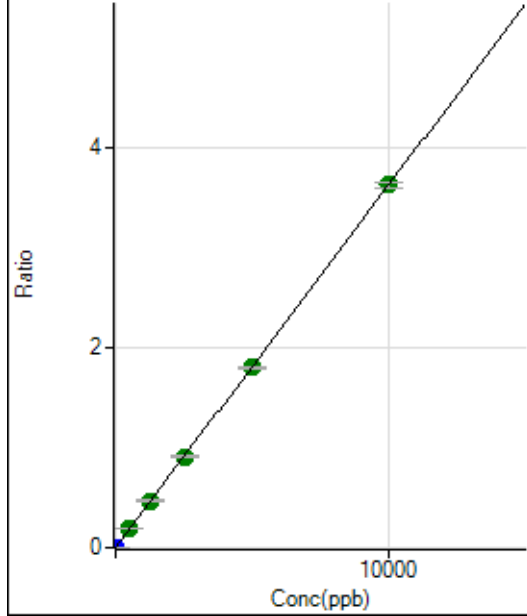
$$R = 0.9999$$

$$DL = 0.01398$$

$$BEC = 0.01766$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	97.78	0.0000	P	11.0
2	☐	5.000	4.837	22781.18	0.0018	P	1.5
3	☐	500.000	514.171	2341138.28	0.1862	A	2.7
4	☐	1250.000	1289.064	5638483.25	0.4667	A	4.8
5	☐	2500.000	2505.661	11052763.03	0.9072	A	1.3
6	☐	5000.000	4964.064	21998951.62	1.7973	A	1.6
7	☐	10000.000	10010.961	43932403.23	3.6247	A	1.3
8	☐			10629.52	0.0010	P	5.8

$$y = 3.6207\text{E-}004 * x + 7.4940\text{E-}006$$

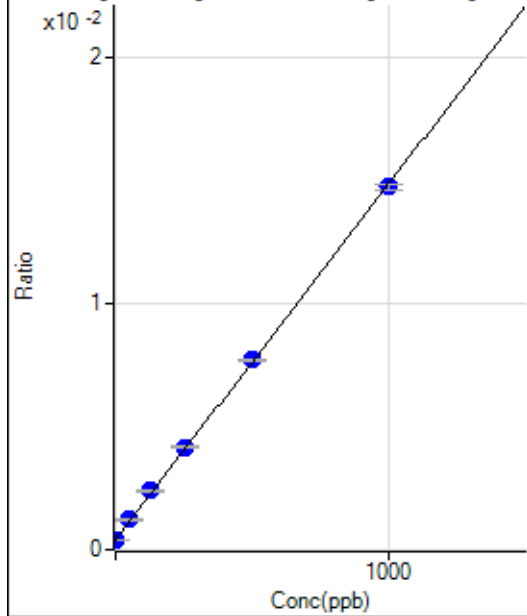
$$R = 1.0000$$

$$DL = 0.00686$$

$$BEC = 0.0207$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	4200.65	0.0004	P	1.0
2	☐	1.000	0.965	4296.24	0.0004	P	4.0
3	☐	50.000	56.423	12443.22	0.0012	P	4.2
4	☐	125.000	137.935	24142.36	0.0024	P	2.9
5	☐	250.000	259.962	42685.89	0.0042	P	1.5
6	☐	500.000	506.386	79618.69	0.0077	P	1.0
7	☐	1000.000	992.378	152472.59	0.0147	P	1.6
8	☐			3734.96	0.0004	P	0.3

$$y = 1.4451\text{E-}005 * x + 4.0372\text{E-}004$$

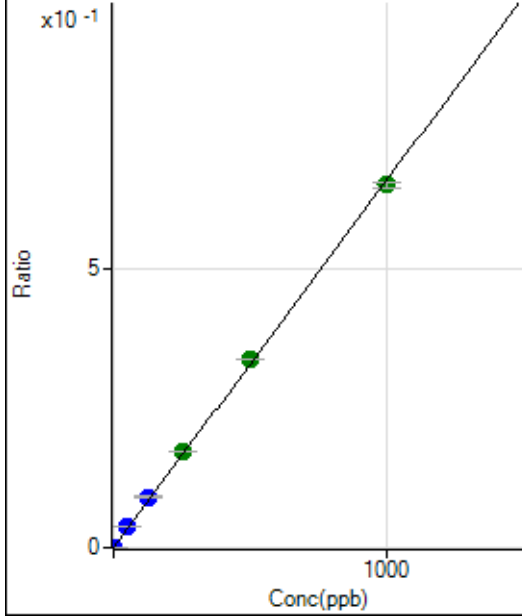
$$R = 0.9999$$

$$DL = 0.8228$$

$$BEC = 27.94$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	67.78	0.0000	P	16.3
2	☐	1.000	1.052	7198.52	0.0007	P	1.6
3	☐	50.000	56.368	379126.76	0.0371	P	2.5
4	☐	125.000	137.843	914347.90	0.0908	P	3.7
5	☐	250.000	261.518	1767398.55	0.1723	A	1.0
6	☐	500.000	514.133	3491979.67	0.3387	A	0.1
7	☐	1000.000	988.130	6730535.73	0.6509	A	1.4
8	☐			1363.41	0.0001	P	9.0

$$y = 6.5867E-004 * x + 6.5170E-006$$

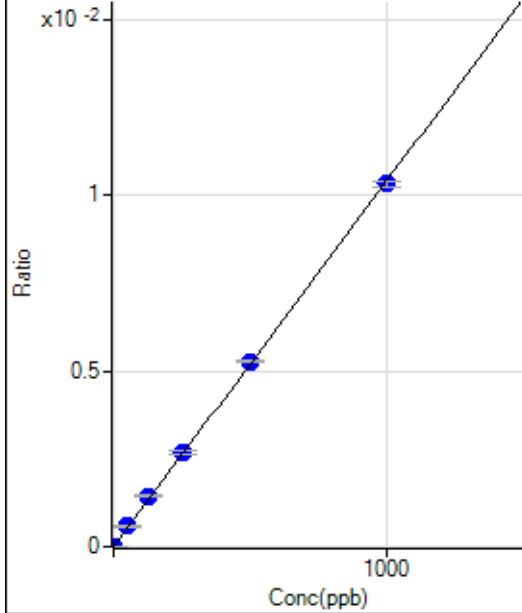
$$R = 0.9997$$

$$DL = 0.004828$$

$$BEC = 0.009894$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	11.11	0.0000	P	34.3
2	☐	1.000	1.238	143.34	0.0000	P	10.5
3	☐	50.000	55.471	5899.02	0.0006	P	2.3
4	☐	125.000	138.359	14499.55	0.0014	P	2.4
5	☐	250.000	258.118	27539.51	0.0027	P	2.5
6	☐	500.000	506.765	54333.46	0.0053	P	0.5
7	☐	1000.000	992.644	106718.64	0.0103	P	1.9
8	☐			111.11	0.0000	P	17.7

$$y = 1.0396E-005 * x + 1.0667E-006$$

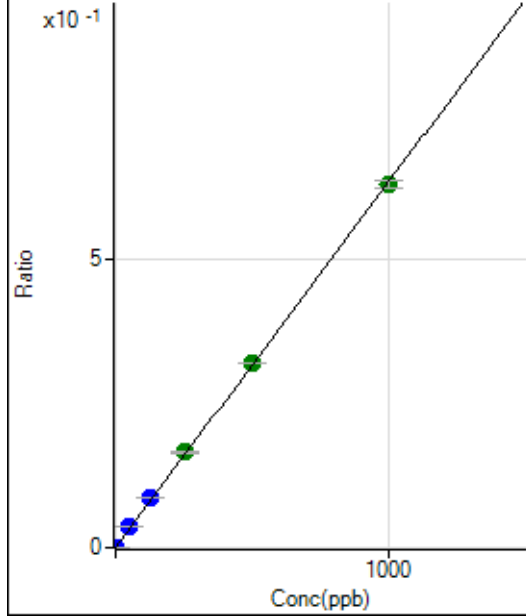
$$R = 0.9999$$

$$DL = 0.1055$$

$$BEC = 0.1026$$

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	26.67	0.0000	P	12.3
2	☐	1.000	1.040	6791.65	0.0007	P	2.6
3	☐	50.000	56.394	363923.19	0.0356	P	3.0
4	☐	125.000	136.843	871089.74	0.0865	P	3.4
5	☐	250.000	261.236	1694106.19	0.1651	A	1.7
6	☐	500.000	505.801	3296696.41	0.3197	A	0.5
7	☐	1000.000	992.491	6486855.60	0.6273	A	2.1
8	☐			1342.30	0.0001	P	9.8

$$y = 6.3208\text{E-}004 * x + 2.5624\text{E-}006$$

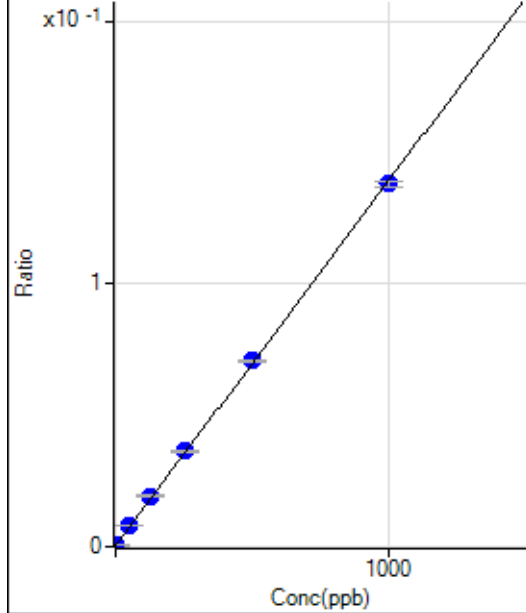
$$R = 0.9999$$

$$DL = 0.001494$$

$$BEC = 0.004054$$

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	2940.45	0.0003	P	0.9
2	☐	1.000	1.105	4484.91	0.0004	P	3.1
3	☐	50.000	55.979	82225.46	0.0081	P	3.5
4	☐	125.000	136.445	193622.03	0.0192	P	3.6
5	☐	250.000	259.479	372522.38	0.0363	P	1.5
6	☐	500.000	507.625	729650.73	0.0708	P	1.3
7	☐	1000.000	992.088	1427306.07	0.1380	P	1.7
8	☐			3446.73	0.0004	P	0.5

$$y = 1.3884\text{E-}004 * x + 2.8261\text{E-}004$$

$$R = 0.9999$$

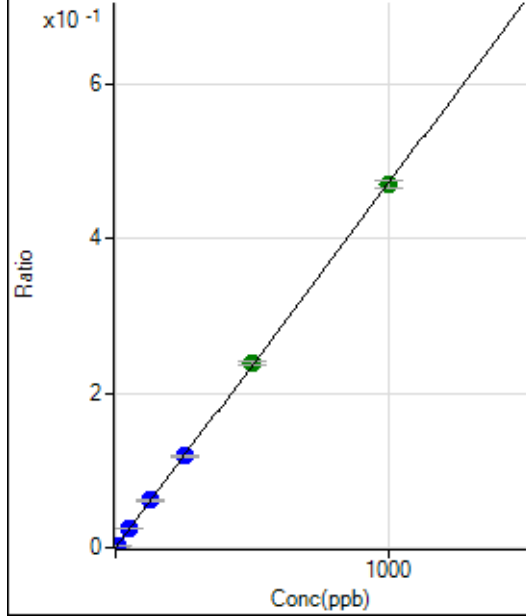
$$DL = 0.05497$$

$$BEC = 2.035$$

Weight: <None>

Min Conc: 0

118 Sn [No Gas] ISTD :159 Tb [No Gas]



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	567.79	0.0001	P	4.9
2	☐	5.000	5.138	25475.88	0.0025	P	2.7
3	☐	50.000	53.441	257662.42	0.0252	P	3.6
4	☐	125.000	130.821	621432.30	0.0617	P	3.8
5	☐	250.000	252.073	1219463.77	0.1189	P	1.6
6	☐	500.000	506.484	2462100.34	0.2388	A	1.4
7	☐	1000.000	995.339	4851505.38	0.4692	A	1.9
8	☐			3877.22	0.0004	P	1.3

$$y = 4.7132\text{E-}004 * x + 5.4569\text{E-}005$$

$$R = 1.0000$$

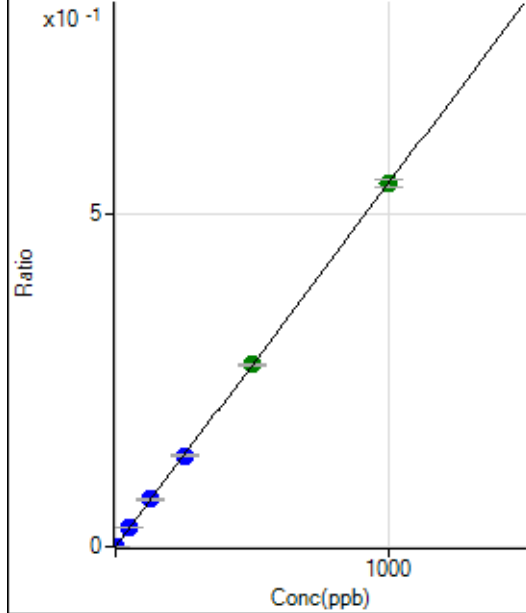
$$DL = 0.017$$

$$BEC = 0.1158$$

Weight: <None>

Min Conc: 0

121 Sb [No Gas] ISTD :159 Tb [No Gas]



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	98.89	0.0000	P	17.8
2	☐	2.000	1.991	11311.21	0.0011	P	1.2
3	☐	50.000	52.514	293552.96	0.0288	P	3.3
4	☐	125.000	129.818	715651.73	0.0711	P	4.1
5	☐	250.000	250.506	1407023.83	0.1371	P	1.3
6	☐	500.000	501.175	2829011.59	0.2744	A	0.8
7	☐	1000.000	998.558	5652418.59	0.5466	A	2.0
8	☐			6481.51	0.0007	P	3.3

$$y = 5.4741\text{E-}004 * x + 9.5105\text{E-}006$$

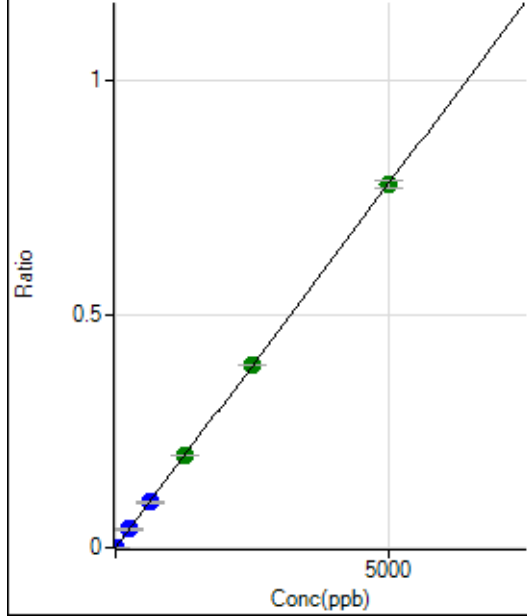
$$R = 1.0000$$

$$DL = 0.009268$$

$$BEC = 0.01737$$

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	7.78	0.0000	P	173.
2	☐	10.000	9.704	15568.61	0.0015	P	1.3
3	☐	250.000	254.388	404793.13	0.0397	P	2.9
4	☐	625.000	629.233	987535.79	0.0981	P	4.2
5	☐	1250.000	1270.465	2031632.40	0.1980	A	1.8
6	☐	2500.000	2514.203	4040829.70	0.3919	A	0.8
7	☐	5000.000	4987.034	8037918.42	0.7773	A	2.1
8	☐			4468.52	0.0005	P	2.4

$$y = 1.5587\text{E-}004 * x + 7.4743\text{E-}007$$

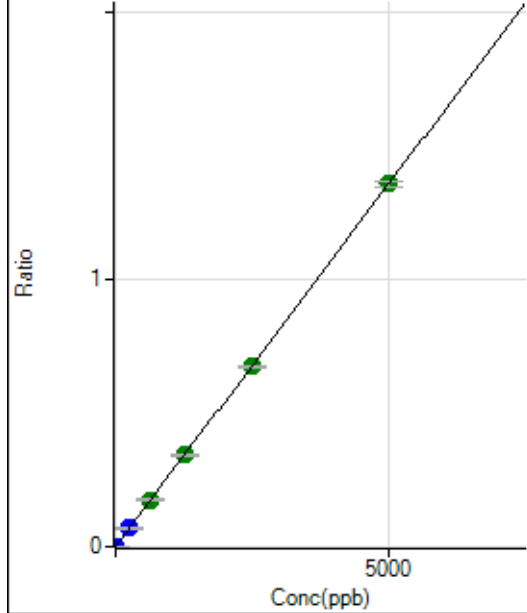
$$R = 1.0000$$

$$DL = 0.02492$$

$$BEC = 0.004795$$

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	18.89	0.0000	P	36.2
2	☐	10.000	9.680	27060.20	0.0026	P	0.3
3	☐	250.000	252.578	700066.88	0.0686	P	3.3
4	☐	625.000	644.948	1763916.22	0.1751	A	2.3
5	☐	1250.000	1264.081	3520949.84	0.3432	A	3.0
6	☐	2500.000	2480.125	6943522.54	0.6734	A	0.9
7	☐	5000.000	5003.795	14049087.01	1.3586	A	1.4
8	☐			7925.61	0.0008	P	2.5

$$y = 2.7151\text{E-}004 * x + 1.8133\text{E-}006$$

$$R = 1.0000$$

$$DL = 0.007258$$

$$BEC = 0.006679$$

Weight: <None>

Min Conc: 0

150 Nd [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			11.11		P	34.6
2	☐			6.67		P	0.0
3	☐			48.89		P	3.9
4	☐			112.22		P	19.1
5	☐			165.56		P	5.1
6	☐			363.34		P	5.1
7	☐			684.47		P	13.4
8	☐			236.67		P	7.8

150 Nd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2.22		P	86.6
2	☐			3.33		P	100.
3	☐			8.89		P	86.6
4	☐			24.44		P	20.8
5	☐			38.89		P	26.2
6	☐			58.89		P	22.9
7	☐			140.01		P	8.2
8	☐			116.67		P	5.7

156 Dy [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			8.89		P	21.6
2	☐			11.11		P	34.6
3	☐			28.89		P	46.6
4	☐			68.89		P	21.8
5	☐			128.89		P	14.9
6	☐			226.67		P	14.2
7	☐			455.57		P	4.0
8	☐			1253.40		P	3.7

156 Dy [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			0.00		P	
2	☐			4.44		P	43.4
3	☐			25.56		P	32.8
4	☐			51.11		P	15.1
5	☐			111.11		P	6.2
6	☐			214.45		P	15.6
7	☐			442.23		P	3.1
8	☐			775.58		P	6.1

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

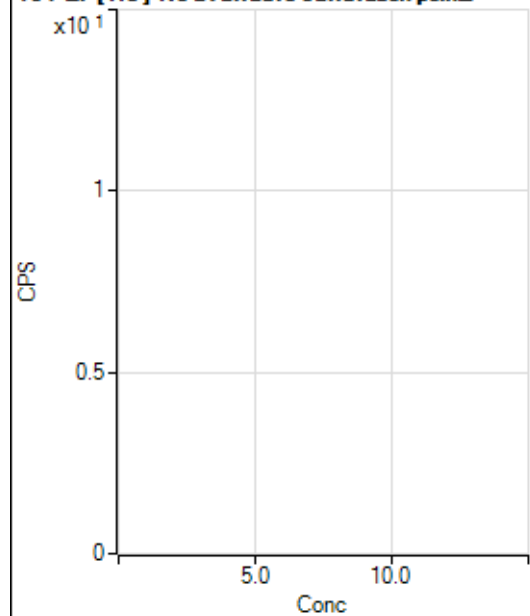
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			42.22		P	25.4
2	☐			33.33		P	36.1
3	☐			52.22		P	7.4
4	☐			66.67		P	15.0
5	☐			130.00		P	15.6
6	☐			190.00		P	10.7
7	☐			427.79		P	7.0
8	☐			1370.08		P	6.6

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			253.34		P	1.3
2	☐			260.01		P	5.1
3	☐			268.90		P	3.8
4	☐			283.34		P	11.3
5	☐			310.01		P	11.6
6	☐			343.34		P	12.6
7	☐			462.23		P	5.8
8	☐			1101.16		P	4.3

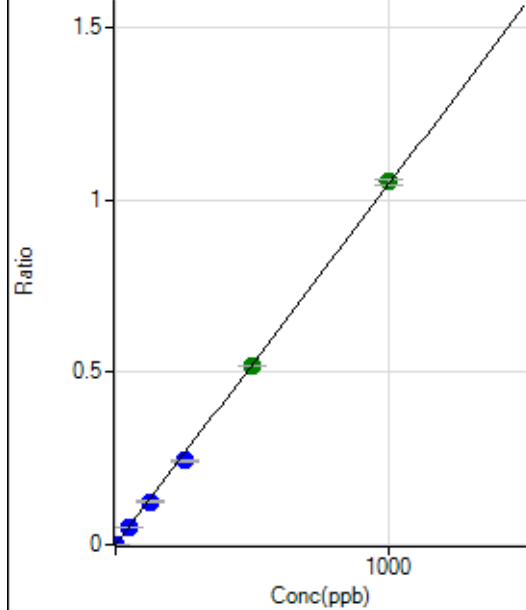
164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			82.22		P	28.8
2	☐			87.78		P	11.6
3	☐			85.56		P	17.6
4	☐			80.00		P	37.0
5	☐			146.67		P	8.2
6	☐			122.22		P	21.2
7	☐			173.34		P	6.9
8	☐			225.56		P	18.7

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			44.44		P	11.5
2	☐			51.11		P	29.4
3	☐			54.44		P	40.8
4	☐			48.89		P	19.7
5	☐			64.44		P	15.8
6	☐			76.67		P	15.7
7	☐			96.67		P	11.9
8	☐			155.56		P	12.2

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	110.00	0.0000	P	13.8
2	☐	1.000	0.868	5653.44	0.0009	P	2.7
3	☐	50.000	46.998	295347.59	0.0492	P	2.5
4	☐	125.000	118.678	734344.08	0.1241	P	4.3
5	☐	250.000	232.377	1474923.99	0.2430	P	1.2
6	☐	500.000	496.629	3157710.72	0.5193	A	0.1
7	☐	1000.000	1007.032	6276787.89	1.0531	A	1.5
8	☐			2331.34	0.0005	P	1.2

$$y = 0.0010 * x + 1.7706E-005$$

$$R = 0.9998$$

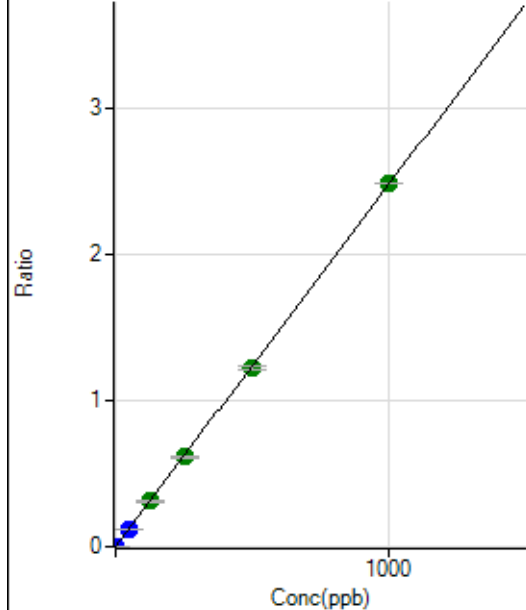
$$DL = 0.006997$$

$$BEC = 0.01693$$

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	234.45	0.0000	P	12.6
2	☐	1.000	0.892	13729.25	0.0022	P	0.8
3	☐	50.000	47.249	703273.20	0.1171	P	1.6
4	☐	125.000	126.946	1860687.77	0.3144	A	3.3
5	☐	250.000	248.650	3737694.35	0.6158	A	1.4
6	☐	500.000	494.091	7439807.25	1.2237	A	1.5
7	☐	1000.000	1003.186	14810022.69	2.4845	A	0.1
8	☐			5430.03	0.0011	P	2.1

$$y = 0.0025 * x + 3.7708E-005$$

$$R = 1.0000$$

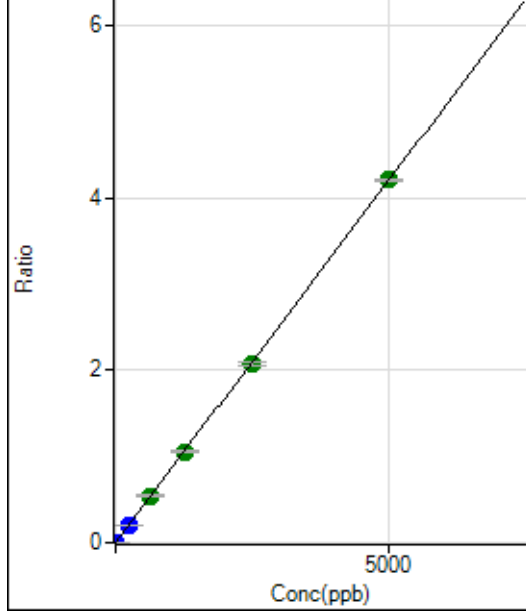
$$DL = 0.00577$$

$$BEC = 0.01523$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	237.78	0.0000	P	16.1
2	☐	1.000	0.917	4944.29	0.0008	P	0.2
3	☐	250.000	236.722	1196105.72	0.1991	P	1.5
4	☐	625.000	645.079	3209768.88	0.5424	A	3.5
5	☐	1250.000	1251.289	6385307.48	1.0521	A	2.1
6	☐	2500.000	2473.413	12643951.62	2.0797	A	1.9
7	☐	5000.000	5011.125	25115951.85	4.2135	A	0.3
8	☐			13296.59	0.0027	P	0.9

$$y = 8.4082\text{E-}004 * x + 3.8236\text{E-}005$$

$$R = 1.0000$$

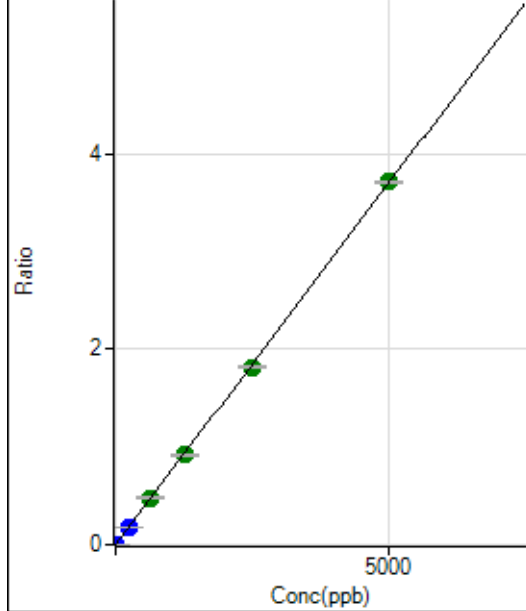
$$DL = 0.02203$$

$$BEC = 0.04548$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	247.78	0.0000	P	15.8
2	☐	1.000	0.896	4297.39	0.0007	P	2.9
3	☐	250.000	234.995	1045179.25	0.1740	P	2.2
4	☐	625.000	640.367	2804625.93	0.4740	A	4.1
5	☐	1250.000	1243.229	5584864.78	0.9202	A	1.8
6	☐	2500.000	2458.936	11065929.83	1.8201	A	0.9
7	☐	5000.000	5021.054	22152974.11	3.7165	A	0.5
8	☐			11537.18	0.0023	P	1.9

$$y = 7.4017\text{E-}004 * x + 3.9874\text{E-}005$$

$$R = 0.9999$$

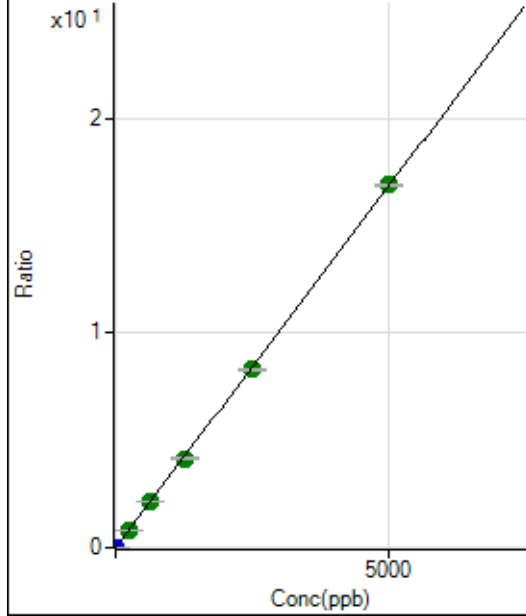
$$DL = 0.02552$$

$$BEC = 0.05387$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1142.26	0.0002	P	2.4
2	☐	1.000	0.891	19461.14	0.0032	P	1.3
3	☐	250.000	244.159	4939350.36	0.8222	A	2.6
4	☐	625.000	639.361	12737999.92	2.1528	A	3.8
5	☐	1250.000	1236.229	25261076.78	4.1623	A	1.7
6	☐	2500.000	2466.560	50490359.11	8.3046	A	1.3
7	☐	5000.000	5018.660	100717941.8	16.8970	A	0.7
8	☐			52424.02	0.0105	P	1.0

$$y = 0.0034 * x + 1.8378E-004$$

$$R = 1.0000$$

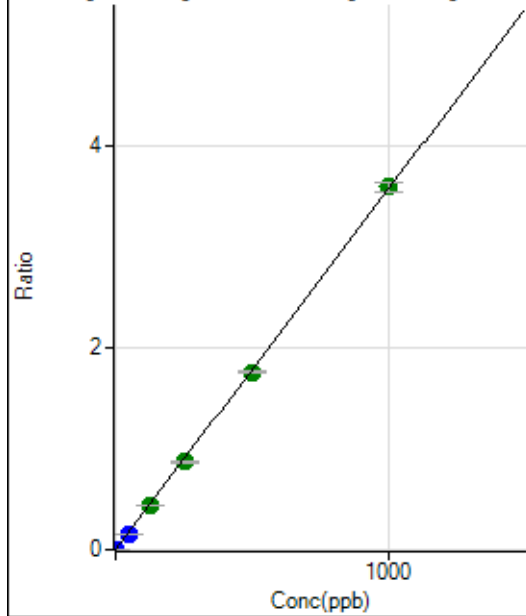
$$DL = 0.0039$$

$$BEC = 0.05459$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	12.22	0.0000	P	69.0
2	☐	1.000	0.828	18110.14	0.0030	P	1.8
3	☐	50.000	44.320	953139.81	0.1586	P	1.9
4	☐	125.000	122.533	2595278.19	0.4386	A	3.7
5	☐	250.000	243.810	5296306.66	0.8727	A	2.2
6	☐	500.000	492.983	10728720.74	1.7646	A	1.3
7	☐	1000.000	1005.649	21454700.51	3.5997	A	2.4
8	☐			3601.64	0.0007	P	2.7

$$y = 0.0036 * x + 1.9687E-006$$

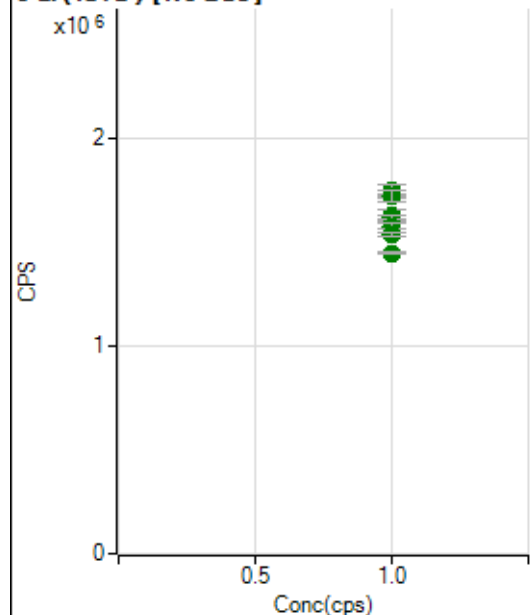
$$R = 0.9999$$

$$DL = 0.001139$$

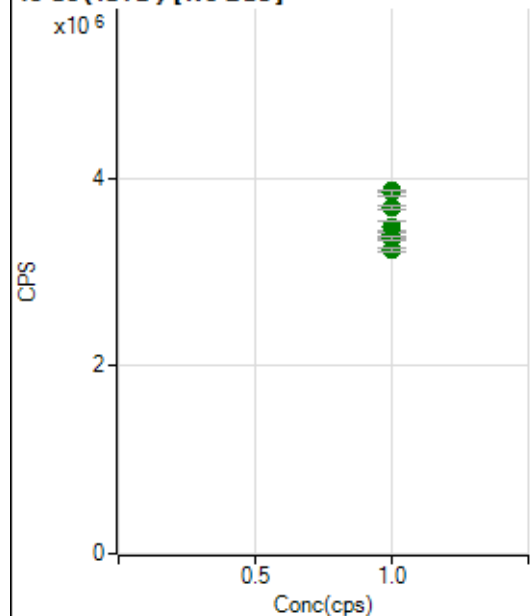
$$BEC = 0.00055$$

Weight: <None>

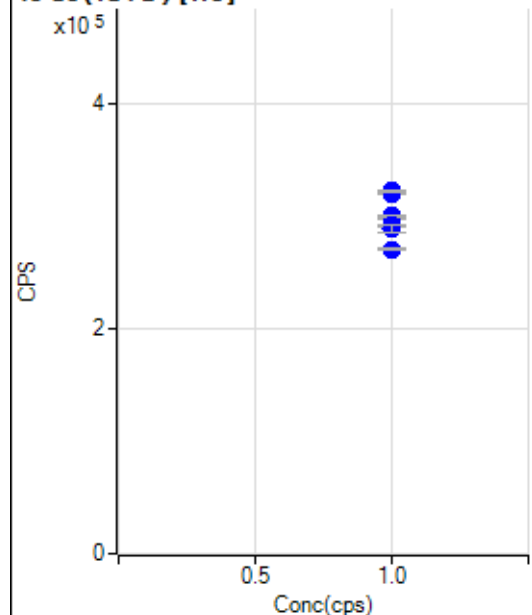
Min Conc: 0

6 Li (ISTD) [No Gas]

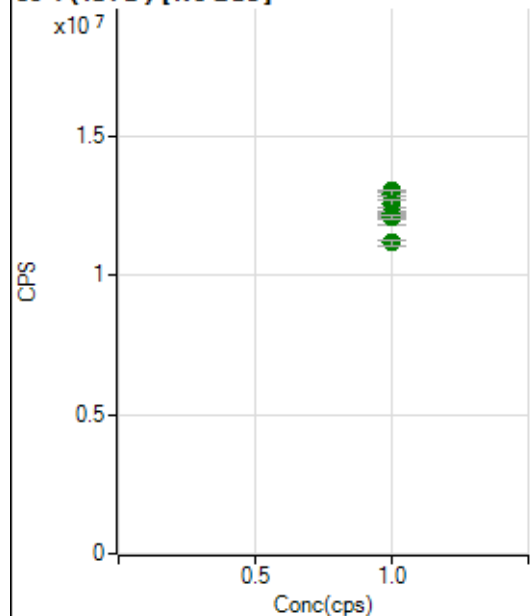
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1726814.64		A	1.1
2	☐	1.000		1747889.09		A	3.2
3	☐	1.000		1721946.92		A	2.9
4	☐	1.000		1631535.03		A	3.6
5	☐	1.000		1622328.15		A	1.3
6	☐	1.000		1578479.32		A	1.7
7	☐	1.000		1537466.12		A	1.2
8	☐	1.000		1445929.28		A	0.7

45 Sc (ISTD) [No Gas]

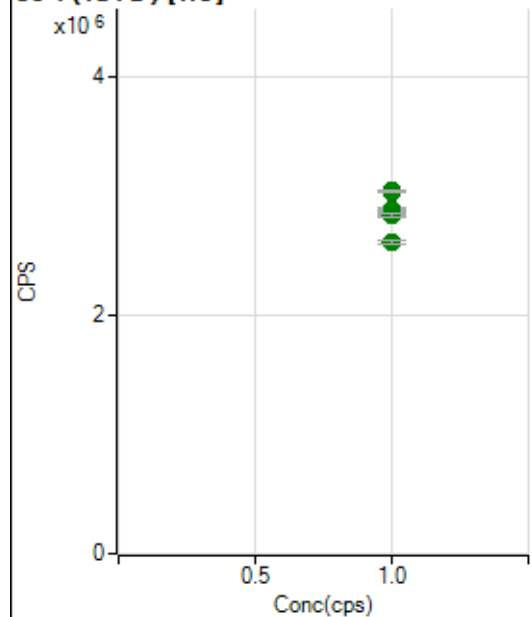
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3864799.56		A	0.4
2	☐	1.000		3844997.76		A	1.4
3	☐	1.000		3690927.83		A	1.3
4	☐	1.000		3492246.69		A	3.5
5	☐	1.000		3445000.85		A	0.1
6	☐	1.000		3391028.25		A	1.3
7	☐	1.000		3353554.85		A	1.3
8	☐	1.000		3241858.50		A	1.3

45 Sc (ISTD) [He]

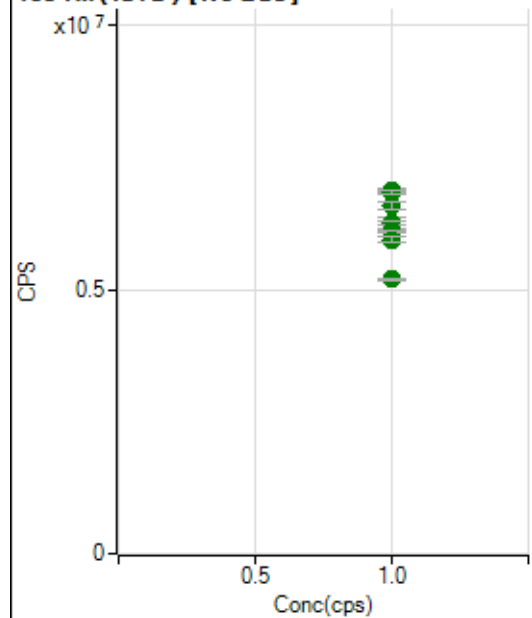
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		320399.84		P	0.3
2	☐	1.000		322827.56		P	0.5
3	☐	1.000		298967.88		P	0.7
4	☐	1.000		300585.67		P	0.8
5	☐	1.000		292303.42		P	0.7
6	☐	1.000		291671.67		P	0.6
7	☐	1.000		289240.72		P	1.9
8	☐	1.000		271030.67		P	0.8

89 Y (ISTD) [No Gas]

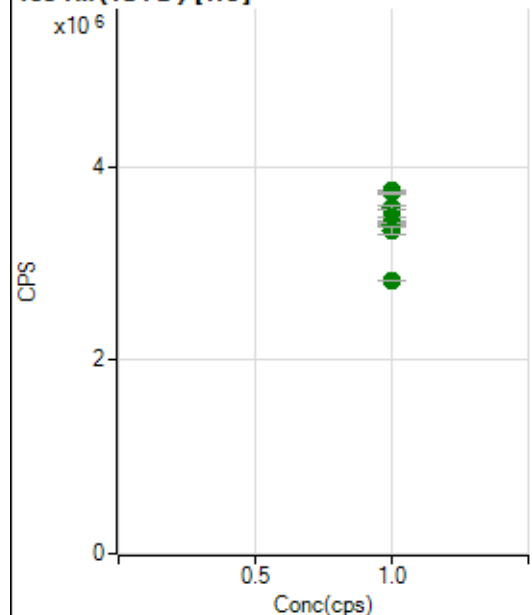
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		13048299.94		A	0.4
2	☐	1.000		12953688.70		A	1.8
3	☐	1.000		12579405.51		A	2.0
4	☐	1.000		12095594.82		A	3.9
5	☐	1.000		12184283.01		A	1.3
6	☐	1.000		12241073.71		A	1.1
7	☐	1.000		12121417.04		A	1.1
8	☐	1.000		11169739.14		A	1.7

89 Y(ISTD) [He]

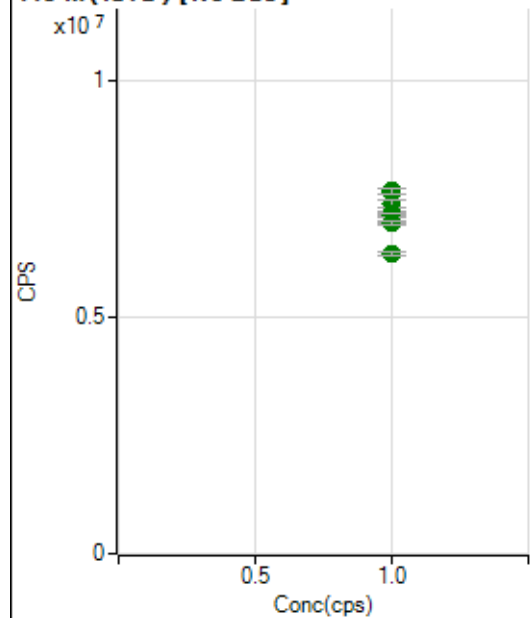
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3037404.95		A	0.5
2	☐	1.000		3034437.94		A	0.2
3	☐	1.000		2873933.88		A	1.3
4	☐	1.000		2886470.17		A	0.7
5	☐	1.000		2862728.88		A	0.7
6	☐	1.000		2849937.35		A	1.1
7	☐	1.000		2840721.31		A	1.2
8	☐	1.000		2609401.31		A	1.2

103 Rh(ISTD) [No Gas]

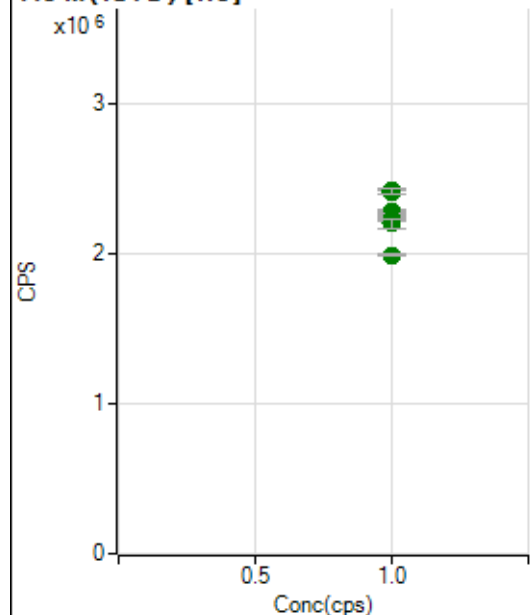
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6871218.44		A	0.9
2	☐	1.000		6859352.12		A	1.0
3	☐	1.000		6591954.76		A	2.1
4	☐	1.000		6261050.11		A	3.8
5	☐	1.000		6270576.99		A	1.1
6	☐	1.000		6105162.90		A	0.4
7	☐	1.000		5954603.39		A	1.4
8	☐	1.000		5195396.10		A	0.7

103 Rh (ISTD) [He]

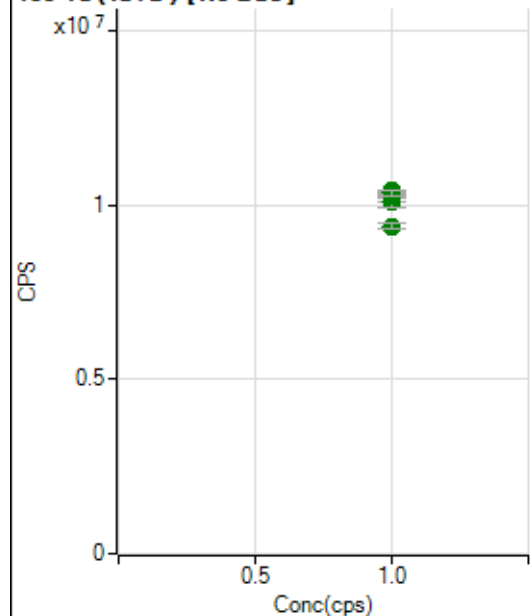
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3753501.19		A	0.3
2	☐	1.000		3730874.00		A	0.6
3	☐	1.000		3587057.65		A	0.9
4	☐	1.000		3480196.93		A	0.4
5	☐	1.000		3424912.59		A	0.9
6	☐	1.000		3401332.17		A	1.1
7	☐	1.000		3339468.49		A	2.1
8	☐	1.000		2831324.40		A	0.2

115 In (ISTD) [No Gas]

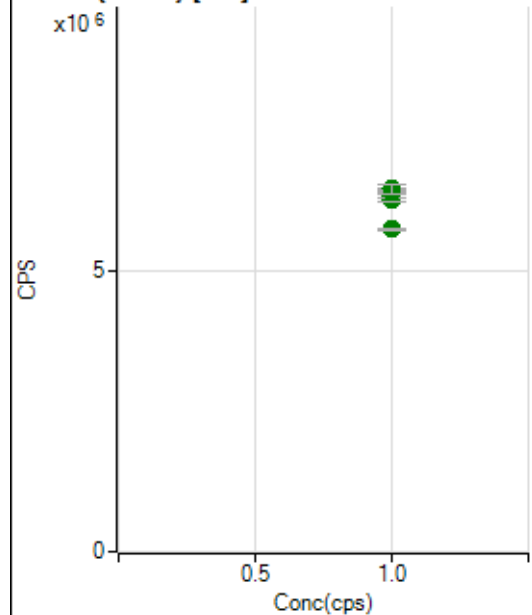
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7667035.58		A	1.2
2	☐	1.000		7650654.39		A	1.5
3	☐	1.000		7402917.87		A	2.4
4	☐	1.000		7108877.29		A	3.2
5	☐	1.000		7188699.41		A	0.5
6	☐	1.000		7144637.91		A	1.0
7	☐	1.000		6984571.40		A	0.8
8	☐	1.000		6325945.20		A	1.5

115 In (ISTD) [He]

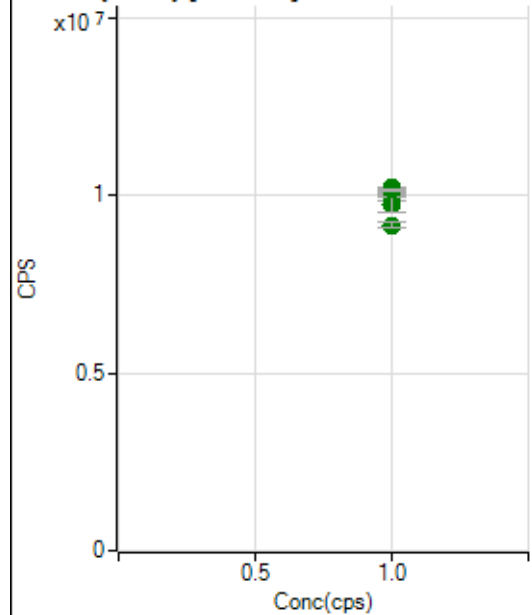
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2405467.73		A	0.8
2	☐	1.000		2416014.71		A	1.3
3	☐	1.000		2279472.85		A	0.6
4	☐	1.000		2262090.16		A	0.7
5	☐	1.000		2230816.65		A	0.6
6	☐	1.000		2221853.10		A	0.6
7	☐	1.000		2197961.52		A	3.0
8	☐	1.000		1987132.19		A	0.9

159 Tb (ISTD) [No Gas]

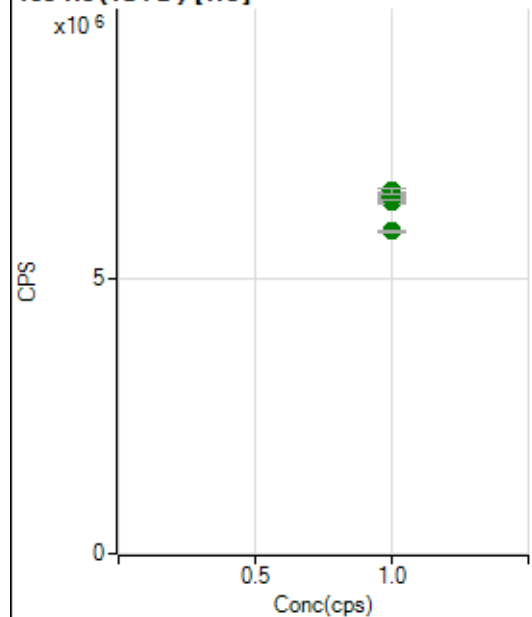
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		10404661.09		A	0.5
2	☐	1.000		10289263.87		A	1.6
3	☐	1.000		10214568.95		A	2.9
4	☐	1.000		10078010.06		A	3.2
5	☐	1.000		10260578.80		A	0.9
6	☐	1.000		10311452.00		A	0.5
7	☐	1.000		10342146.24		A	1.3
8	☐	1.000		9396830.55		A	2.1

159 Tb (ISTD) [He]

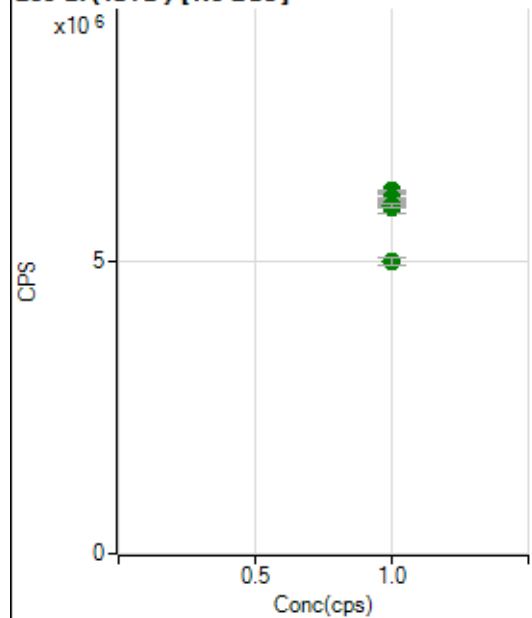
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6429469.97		A	0.1
2	☐	1.000		6450738.10		A	0.6
3	☐	1.000		6335553.93		A	1.4
4	☐	1.000		6328556.16		A	0.7
5	☐	1.000		6274215.60		A	1.1
6	☐	1.000		6411475.39		A	0.3
7	☐	1.000		6457923.38		A	2.4
8	☐	1.000		5737481.37		A	0.2

165 Ho (ISTD) [No Gas]

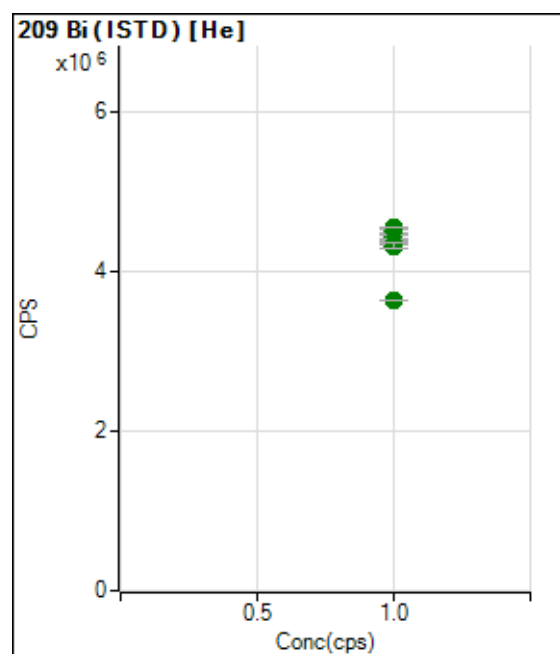
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		10026762.91		A	1.5
2	☐	1.000		10112031.66		A	1.9
3	☐	1.000		9963384.78		A	2.4
4	☐	1.000		9739299.16		A	4.0
5	☐	1.000		10161754.36		A	0.5
6	☐	1.000		10210593.74		A	0.4
7	☐	1.000		10149064.78		A	1.0
8	☐	1.000		9157591.88		A	1.9

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6517652.26		A	0.4
2	☐	1.000		6611016.43		A	1.1
3	☐	1.000		6402759.76		A	0.4
4	☐	1.000		6489134.07		A	0.5
5	☐	1.000		6484952.89		A	0.8
6	☐	1.000		6505413.86		A	1.3
7	☐	1.000		6615019.76		A	1.8
8	☐	1.000		5883369.08		A	0.6

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6215920.05		A	0.5
2	☐	1.000		6111145.40		A	1.7
3	☐	1.000		6009215.19		A	1.8
4	☐	1.000		5921298.52		A	2.9
5	☐	1.000		6069646.23		A	1.0
6	☐	1.000		6080184.15		A	0.8
7	☐	1.000		5960959.15		A	1.0
8	☐	1.000		5002566.55		A	2.7



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4543800.63		A	0.7
2	☐	1.000		4514233.72		A	1.3
3	☐	1.000		4399656.71		A	0.6
4	☐	1.000		4428890.63		A	0.8
5	☐	1.000		4393205.04		A	0.9
6	☐	1.000		4335909.59		A	0.2
7	☐	1.000		4320383.79		A	2.0
8	☐	1.000		3633643.35		A	0.3

US EPA Tune Check Report

Operator Name Jaswal

Acq/Data Batch D:\Agilent\ICPMH\1\DATA\IP7011224 MS.b

Acq. Date-Time 2024-01-12 13:51:59

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		12953	129526.85			0.958	5.000
24		70173	701725.55			0.869	5.000
25		9067	90674.17			1.171	5.000
26		10382	103824.54			1.097	5.000
59		84232	842319.79			1.057	5.000
113		14098	140981.88			1.074	5.000
115		173052	1730519.83			0.910	5.000
206		40028	400279.86			1.066	5.000
207		36047	360472.51			0.998	5.000
208		85747	857468.14			0.959	5.000
220		0	2.20			47.128	

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

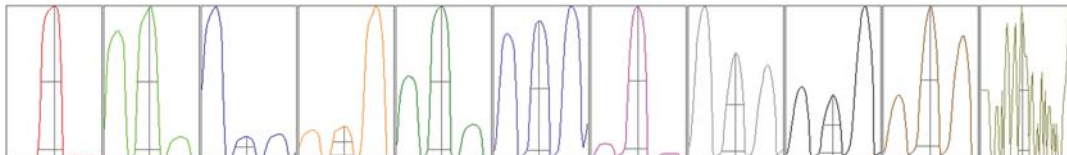
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	12748	12933	13046	12989	13048
24	69306	70218	69872	70817	70650
25	8886	9086	9149	9079	9138
26	10184	10403	10437	10419	10470
59	82740	84235	84878	84361	84946
113	13855	14143	14270	14129	14093
115	170506	174027	174484	172658	173585
206	39344	40052	40524	40129	40091
207	35483	36075	36482	36148	36048
208	84552	85723	86822	85585	86052

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	20589.85	9.05	8.90 - 9.10	
24	114389.52	23.95	23.90 - 24.10	
25	15052.06	24.95	24.90 - 25.10	
26	17075.74	25.95	25.90 - 26.10	
59	139789.53	58.95	58.90 - 59.10	
113	25659.51	112.95	112.90 - 113.10	
115	319749.58	115.00	114.90 - 115.10	
206	76656.17	206.00	205.90 - 206.10	
207	68038.58	207.00	206.90 - 207.10	
208	163745.45	208.00	207.90 - 208.10	
220	0.40	219.85	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.64	0.780	0.900	
24	0.65	0.786	0.900	
25	0.63	0.748	0.900	
26	0.62	0.750	0.900	
59	0.62	0.742	0.900	
113	0.55	0.738	0.900	
115	0.55	0.734	0.900	
206	0.54	0.743	0.900	
207	0.54	0.737	0.900	
208	0.54	0.764	0.900	
220	0.26	0.341		

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	8.9 V	Deflect	15.4 V
Extract 2	-115.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-65 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	200 V		

QP Parameters

Mass Gain	132	Axis Gain	0.9973	QP Bias	-3.0 V
Mass Offset	130	Axis Offset	0.11		

Hardware Settings

Torch

Torch H	-0.1 mm	Torch V	0.9 mm
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EM

Discriminator	4.7 mV	Analog HV	2305 V	Pulse HV	1364 V
---------------	--------	-----------	--------	----------	--------

[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		27079	270788.26			1.248	
89		40592	405919.11			0.993	
205		39670	396702.76			0.808	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	26503	27200	27389	27196	27107
89	39933	40756	40934	40843	40494
205	39156	39730	39947	39918	39600

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	8.8 V	Deflect	2.8 V
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US EPA Tune Check Report

Extract 2	-95.0 V	Cell Entrance	-40 V	Plate Bias	-60 V
Omega Bias	-55 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	132	Axis Gain	0.9973	QP Bias	-13.0 V
Mass Offset	130	Axis Offset	0.11		

Hardware Settings

Torch

Torch H	-0.1 mm	Torch V	0.9 mm
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EM

Discriminator	4.7 mV	Analog HV	2305 V	Pulse HV	1364 V
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