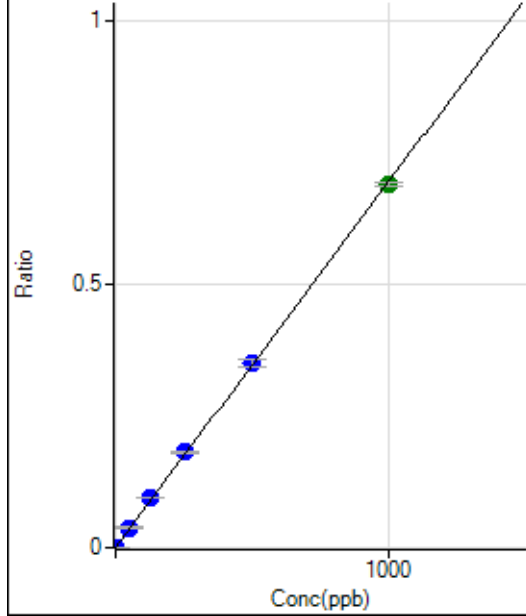


Batch Folder: D:\Agilent\ICPMH\1\DATA\P7101323 MS.b\
Analysis File: P7101323 MS.batch.bin
DA Date-Time: 2023-10-14 00:26:41
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.d	S00	2023-10-13 15:10:56
2	005CALS.d	S01	2023-10-13 15:14:14
3	007CALS.d	S02	2023-10-13 15:20:50
4	008CALS.d	S03	2023-10-13 15:24:10
5	009CALS.d	S04	2023-10-13 15:27:14
6	010CALS.d	S05	2023-10-13 15:30:11
7	011CALS.d	S06	2023-10-13 15:33:00
8	012CALS.d	S07	2023-10-13 15:35:49
9	014CALS.d	S08	2023-10-13 15:41:55

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	16.0
2	☐	0.100	0.129	285.56	0.0001	P	14.9
3	☐	1.000	1.055	1790.12	0.0008	P	5.0
4	☐	50.000	54.923	90001.87	0.0382	P	1.2
5	☐	125.000	135.627	218765.10	0.0942	P	0.2
6	☐	250.000	262.399	427003.05	0.1822	P	1.9
7	☐	500.000	506.588	817232.83	0.3517	P	4.2
8	☐	1000.000	992.032	1547792.72	0.6888	A	1.0
9	☐			383.34	0.0002	P	12.7

$$y = 6.9425E-004 * x + 3.4887E-005$$

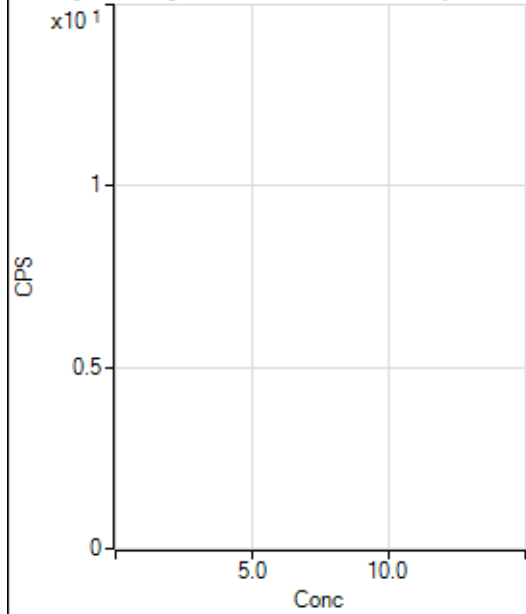
$$R = 0.9998$$

$$DL = 0.02409$$

$$BEC = 0.05025$$

Weight: <None>

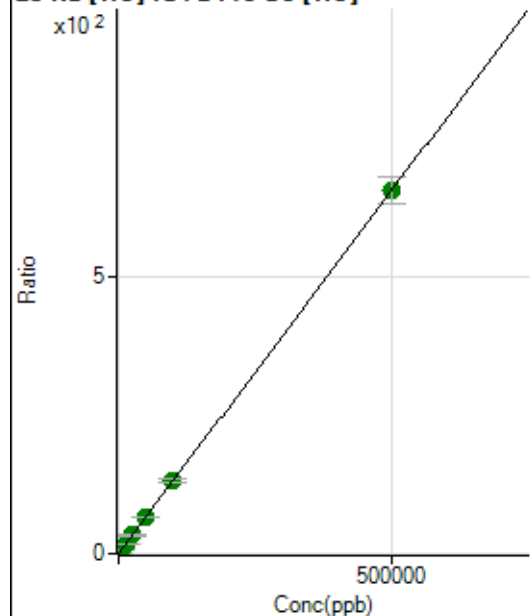
Min Conc: 0

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	☐						
9	☐						

12 C [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐						
2	☐						
3	☐						
4	☐						
5	☐						
6	☐						
7	☐						
8	☐						
9	☐						

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	18880.55	0.0452	P	1.0
2	☐	50.000	47.660	45176.01	0.1077	P	0.4
3	☐	500.000	479.528	280831.02	0.6739	P	1.2
4	☐	5000.000	5030.746	2720127.49	6.6406	A	1.1
5	☐	12500.000	12536.870	6578544.49	16.4814	A	0.8
6	☐	25000.000	25171.603	12827719.95	33.0458	A	1.4
7	☐	50000.000	49854.638	25177919.63	65.4059	A	1.2
8	☐	100000.00	101214.26	49991060.92	132.7397	A	3.9
9	☐	500000.00	499761.89	231509625.4	655.2461	A	7.5

$$y = 0.0013 * x + 0.0452$$

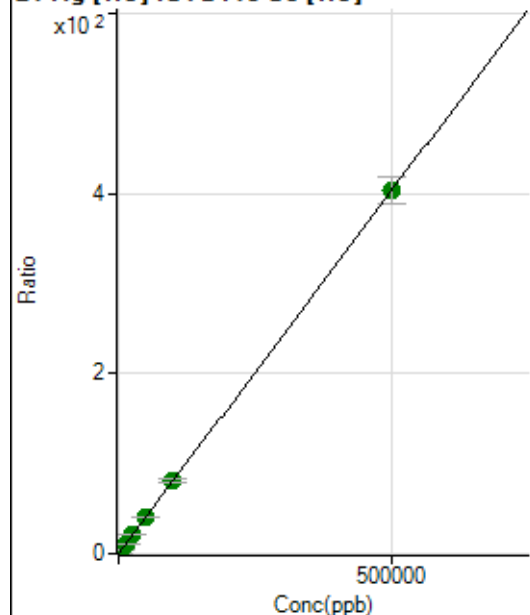
$$R = 1.0000$$

$$DL = 1.069$$

$$BEC = 34.48$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1277.84	0.0031	P	2.2
2	☐	50.000	47.761	17425.51	0.0415	P	0.7
3	☐	500.000	479.591	162302.71	0.3895	P	0.9
4	☐	5000.000	5126.732	1693188.45	4.1336	A	0.7
5	☐	12500.000	12717.512	4091022.47	10.2493	A	0.4
6	☐	25000.000	25361.719	7932867.73	20.4365	A	1.3
7	☐	50000.000	49741.743	15429101.99	40.0791	A	0.5
8	☐	100000.00	100689.72	30553583.43	81.1269	A	3.8
9	☐	500000.00	499863.11	142304983.4	402.7336	A	7.3

$$y = 8.0568\text{E-}004 * x + 0.0031$$

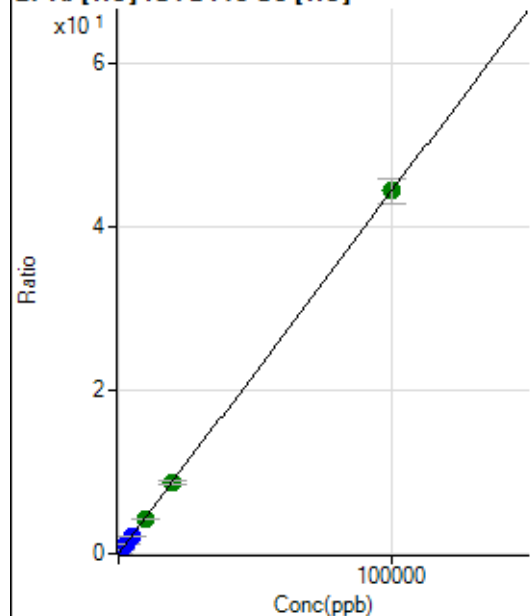
$$R = 1.0000$$

$$DL = 0.2518$$

$$BEC = 3.798$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	310.01	0.0007	P	5.8
2	☒	2.000					
3	☐	20.000	21.403	4265.07	0.0102	P	1.5
4	☐	1000.000	1035.807	188478.13	0.4601	P	1.1
5	☐	2500.000	2551.588	451990.47	1.1324	P	0.8
6	☐	5000.000	5005.680	862035.96	2.2208	P	1.2
7	☐	10000.000	9572.974	1634679.25	4.2464	A	0.9
8	☐	20000.000	19614.533	3276813.04	8.6999	A	3.6
9	☐	100000.00	100117.86	15690841.15	44.4034	A	7.2

$$y = 4.4350\text{E-}004 * x + 7.4232\text{E-}004$$

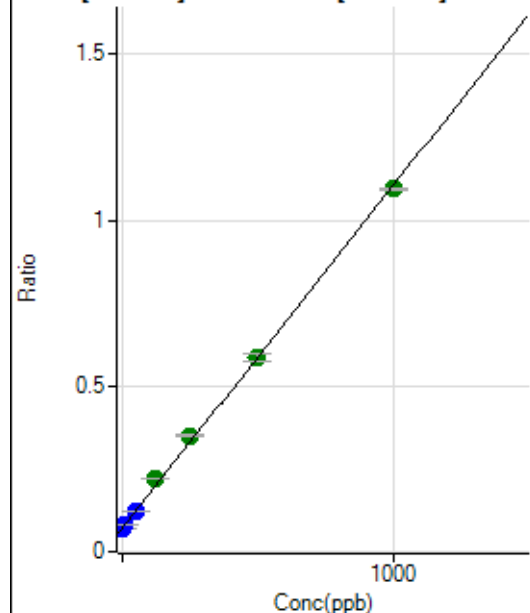
$$R = 1.0000$$

$$DL = 0.2922$$

$$BEC = 1.674$$

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	406346.15	0.0707	P	0.3
2	☐	1.000	0.256	411312.91	0.0710	P	0.0
3	☐	10.000	10.733	478684.89	0.0818	P	3.0
4	☐	50.000	51.874	714003.43	0.1243	P	0.4
5	☐	125.000	147.214	1245018.24	0.2226	A	0.5
6	☐	250.000	271.077	1955719.90	0.3505	A	1.9
7	☐	500.000	500.086	3242084.67	0.5868	A	4.0
8	☐	1000.000	991.811	5919665.68	1.0942	A	0.4
9	☐			513894.16	0.1015	P	7.1

$$y = 0.0010 * x + 0.0707$$

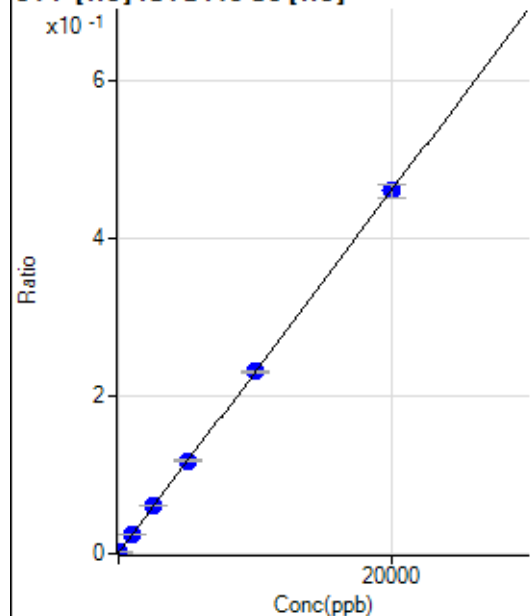
$$R = 0.9996$$

$$DL = 0.5662$$

$$BEC = 68.55$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	-8.202	464.46	0.0011	P	6.7
2	☐	0.000	-0.337	542.24	0.0013	P	5.0
3	☐	0.000	8.539	623.35	0.0015	P	8.4
4	☐	1000.000	1014.792	10067.83	0.0246	P	1.0
5	☐	2500.000	2567.257	24024.51	0.0602	P	1.7
6	☐	5000.000	5079.138	45728.05	0.1178	P	1.8
7	☐	10000.000	9987.106	88688.17	0.2304	P	1.2
8	☐	20000.000	19977.516	173083.13	0.4596	P	3.6
9	☐			457.79	0.0013	P	12.0

$$y = 2.2938E-005 * x + 0.0013$$

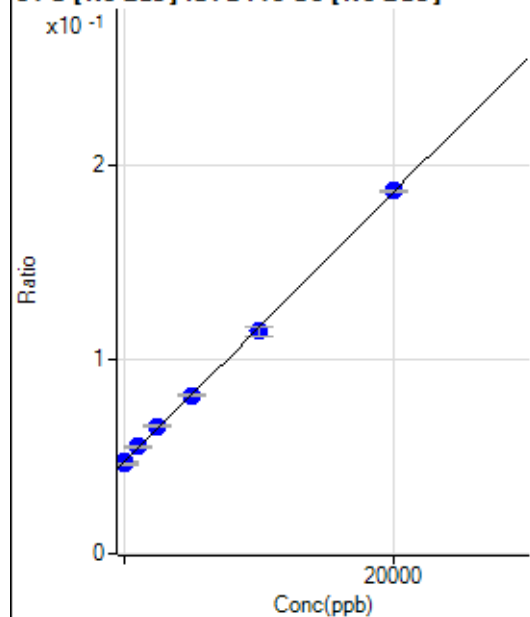
$$R = 1.0000$$

$$DL = 11.49$$

$$BEC = 56.68$$

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	11.869	269026.41	0.0468	P	0.4
2	☐	0.000	87.435	274344.77	0.0474	P	0.7
3	☐	0.000	-99.304	269488.61	0.0461	P	3.1
4	☐	1000.000	1190.926	316207.59	0.0550	P	0.6
5	☐	2500.000	2681.721	365693.23	0.0654	P	1.6
6	☐	5000.000	4987.905	454511.26	0.0814	P	1.2
7	☐	10000.000	9730.900	632298.56	0.1144	P	3.9
8	☐	20000.000	20105.312	1009498.07	0.1866	P	0.5
9	☐			228798.03	0.0452	P	2.3

$$y = 6.9555E-006 * x + 0.0467$$

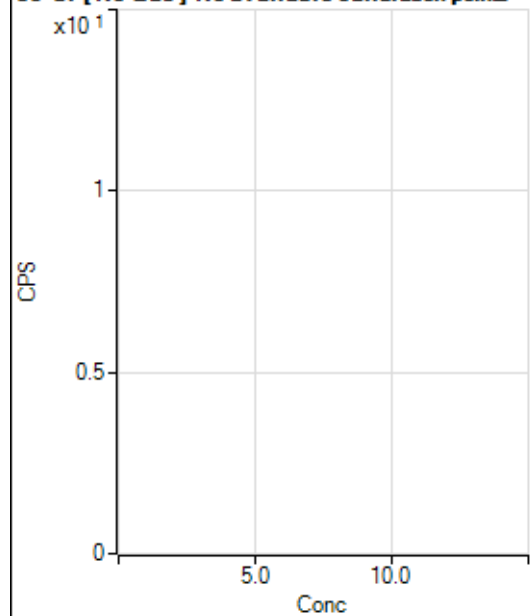
R = 0.9998

DL = 272.5

BEC = 6721

Weight: <None>

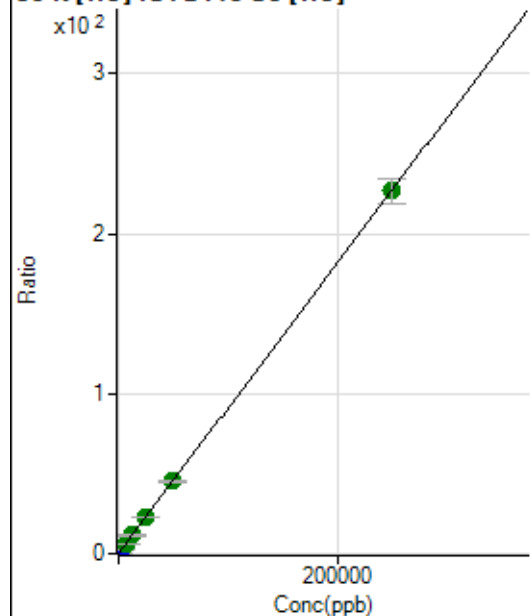
Min Conc: 0

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	☐						
9	☐						

35 Cl [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐						
2	☐						
3	☐						
4	☐						
5	☐						
6	☐						
7	☐						
8	☐						
9	☐						

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	66896.06	0.1602	P	0.1
2	☐	50.000	47.805	85374.12	0.2035	P	0.5
3	☐	500.000	483.108	249263.25	0.5981	P	0.1
4	☐	2500.000	2652.181	1050401.18	2.5643	P	0.1
5	☐	6250.000	6315.527	2349040.36	5.8851	A	1.1
6	☐	12500.000	12436.195	4438159.97	11.4334	A	0.8
7	☐	25000.000	24596.245	8644162.51	22.4563	A	1.8
8	☐	50000.000	49865.855	17083575.30	45.3627	A	4.0
9	☐	250000.00	250067.26	80158715.47	226.8420	A	7.2

$$y = 9.0648\text{E-}004 * x + 0.1602$$

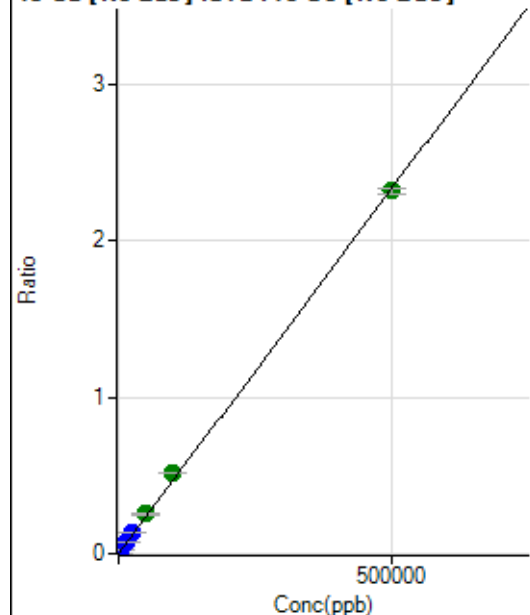
$$R = 1.0000$$

$$DL = 0.5947$$

$$BEC = 176.7$$

Weight: <None>

Min Conc: 0

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

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2090.17	0.0004	P	3.6
2	☐	50.000	46.117	3353.74	0.0006	P	2.3
3	☐	500.000	459.661	14671.63	0.0025	P	2.5
4	☐	5000.000	5848.607	158786.27	0.0276	P	0.2
5	☐	12500.000	14645.245	383878.80	0.0687	P	1.1
6	☐	25000.000	28617.728	746692.70	0.1338	P	1.8
7	☐	50000.000	54659.227	1409915.78	0.2552	A	4.9
8	☐	100000.00	110599.45	2791991.00	0.5161	A	0.7
9	☐	500000.00	497171.22	11745646.91	2.3185	A	1.9

$$y = 4.6627\text{E-}006 * x + 3.6384\text{E-}004$$

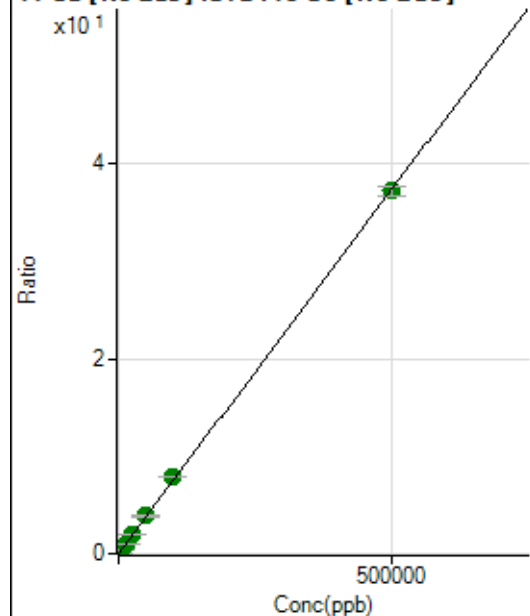
$$R = 0.9997$$

$$DL = 8.532$$

$$BEC = 78.03$$

Weight: <None>

Min Conc: 0

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

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	24822.59	0.0043	P	1.0
2	☐	50.000	49.183	46279.17	0.0080	P	1.4
3	☐	500.000	473.645	231986.10	0.0396	P	2.4
4	☐	5000.000	5419.339	2346947.43	0.4085	A	1.3
5	☐	12500.000	13457.645	5636082.34	1.0079	A	1.0
6	☐	25000.000	26299.788	10968941.64	1.9656	A	2.1
7	☐	50000.000	51824.881	21372266.21	3.8691	A	5.2
8	☐	100000.00	105565.71	42615240.47	7.8767	A	0.3
9	☐	500000.00	498611.27	188379903.8	37.1874	A	2.4

$$y = 7.4573\text{E-}005 * x + 0.0043$$

$$R = 0.9999$$

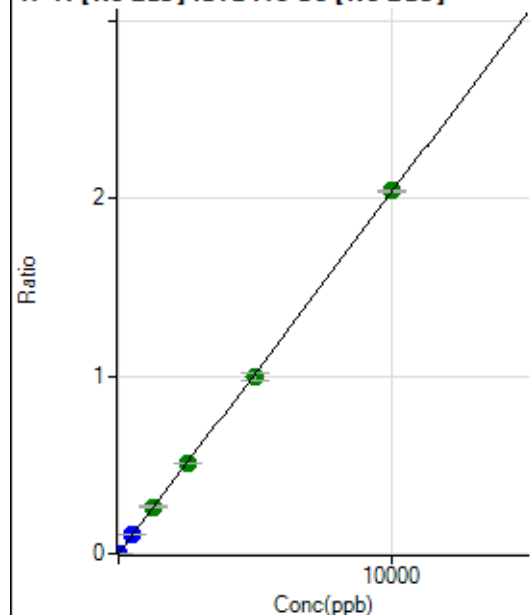
$$DL = 1.712$$

$$BEC = 57.94$$

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	195.56	0.0000	P	9.2
2	☐	0.500	0.485	767.80	0.0001	P	8.1
3	☐	5.000	4.798	5903.43	0.0010	P	2.5
4	☐	500.000	511.189	596998.47	0.1039	P	1.0
5	☐	1250.000	1300.420	1477699.60	0.2643	A	0.8
6	☐	2500.000	2489.825	2823517.08	0.5059	A	1.0
7	☐	5000.000	4901.770	5502397.83	0.9960	A	4.7
8	☐	10000.000	10044.797	11042085.81	2.0410	A	0.8
9	☐			1685.66	0.0003	P	4.7

$$y = 2.0318\text{E-}004 * x + 3.4039\text{E-}005$$

$$R = 0.9999$$

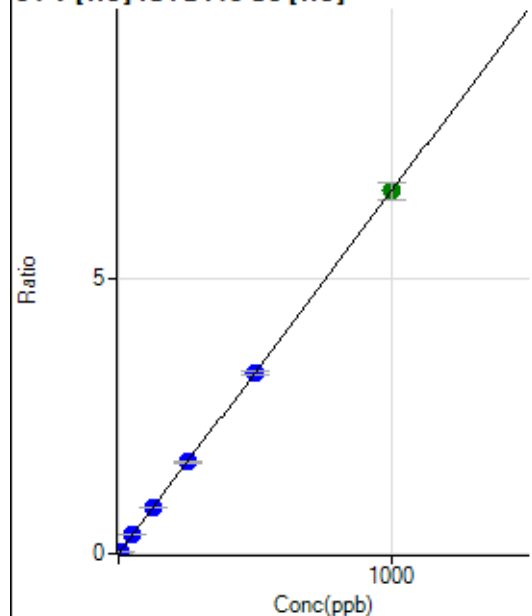
$$DL = 0.04636$$

$$BEC = 0.1675$$

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	4.45	0.0000	P	86.6
2	☐	0.500	0.462	1282.29	0.0031	P	2.0
3	☐	5.000	4.746	13060.17	0.0313	P	1.7
4	☐	50.000	50.474	136461.08	0.3331	P	0.3
5	☐	125.000	127.117	334885.39	0.8390	P	0.9
6	☐	250.000	252.201	646137.20	1.6646	P	1.1
7	☐	500.000	497.734	1264589.38	3.2851	P	1.3
8	☐	1000.000	1000.296	2485990.14	6.6021	A	4.6
9	☐			723.36	0.0020	P	7.6

$$y = 0.0066 * x + 1.0652\text{E-}005$$

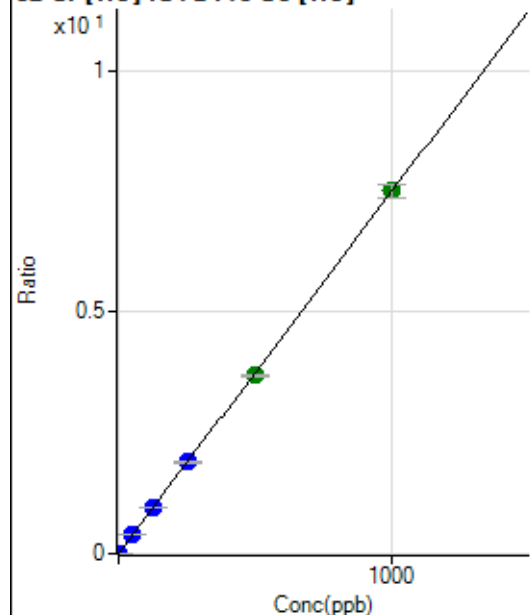
$$R = 1.0000$$

$$DL = 0.004193$$

$$BEC = 0.001614$$

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	1332.29	0.0032	P	4.2
2	☐	0.200	0.206	1985.70	0.0047	P	3.0
3	☐	2.000	1.989	7528.62	0.0181	P	1.6
4	☐	50.000	51.205	158143.72	0.3861	P	0.6
5	☐	125.000	128.694	385372.98	0.9655	P	1.0
6	☐	250.000	253.231	736245.59	1.8967	P	1.2
7	☐	500.000	491.573	1416208.07	3.6789	A	1.2
8	☐	1000.000	1002.884	2825341.25	7.5021	A	4.0
9	☐			9180.65	0.0260	P	9.8

$$y = 0.0075 * x + 0.0032$$

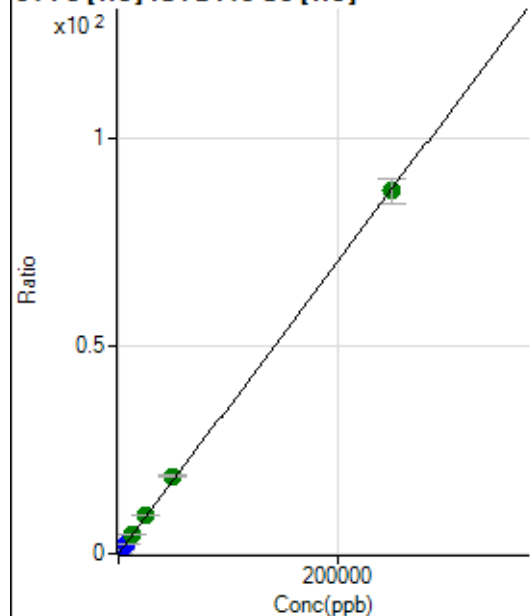
$$R = 0.9999$$

$$DL = 0.05389$$

$$BEC = 0.4267$$

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	1704.56	0.0041	P	4.7
2	☐	5.000	5.150	2469.11	0.0059	P	1.6
3	☐	50.000	54.128	9605.36	0.0230	P	0.2
4	☐	2500.000	2834.059	408444.47	0.9971	P	0.3
5	☐	6250.000	7094.220	993840.54	2.4899	P	0.1
6	☐	12500.000	13335.062	1815263.22	4.6767	A	2.2
7	☐	25000.000	26441.760	3568411.93	9.2692	A	0.5
8	☐	50000.000	53364.125	7043669.55	18.7028	A	3.9
9	☐	250000.00	249116.79	30853321.49	87.2943	A	6.8

$$y = 3.5040E-004 * x + 0.0041$$

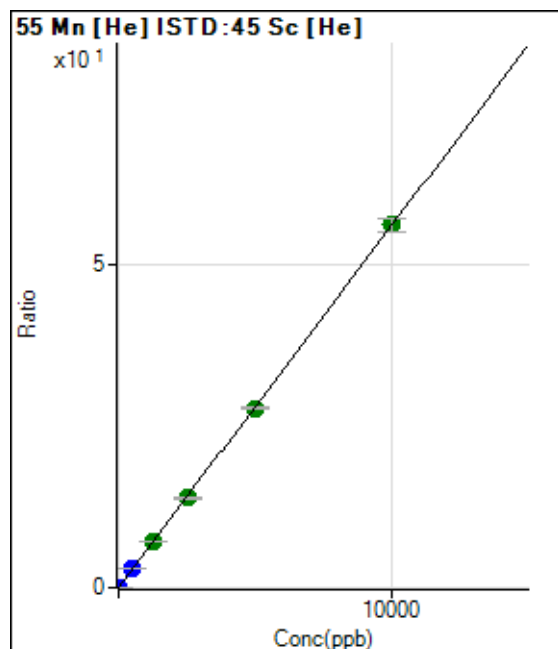
$$R = 0.9999$$

$$DL = 1.659$$

$$BEC = 11.65$$

Weight: <None>

Min Conc: 0



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	184.45	0.0004	P	8.9
2	☐	0.100	0.115	456.68	0.0011	P	7.8
3	☐	1.000	1.014	2551.35	0.0061	P	0.5
4	☐	500.000	511.326	1173763.97	2.8655	P	0.1
5	☐	1250.000	1268.438	2837057.87	7.1077	A	2.2
6	☐	2500.000	2477.735	5389178.95	13.8837	A	1.3
7	☐	5000.000	4952.123	10681683.59	27.7481	A	1.2
8	☐	10000.000	10026.634	21158172.74	56.1816	A	4.0
9	☐			11134.21	0.0315	P	8.0

$$y = 0.0056 * x + 4.4158E-004$$

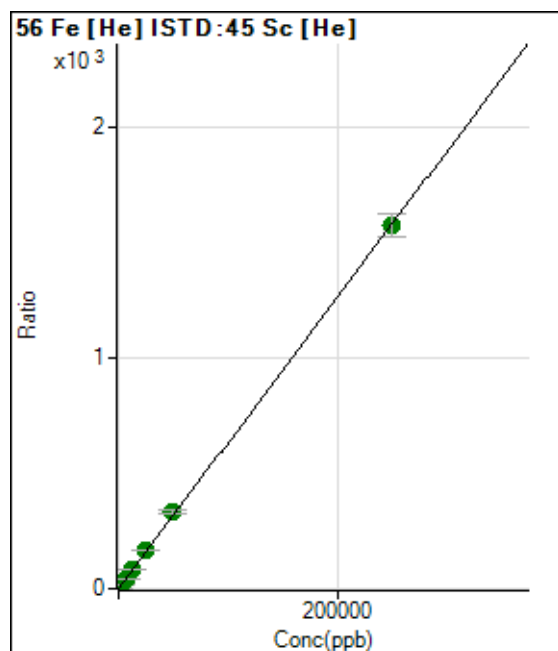
$$R = 1.0000$$

$$DL = 0.02101$$

$$BEC = 0.07881$$

Weight: <None>

Min Conc: 0



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	12198.35	0.0292	P	1.1
2	☐	5.000	5.504	26841.84	0.0640	P	1.3
3	☐	50.000	52.503	150420.92	0.3609	P	0.4
4	☐	2500.000	2641.703	6848931.01	16.7202	A	0.5
5	☐	6250.000	6696.459	16899759.47	42.3393	A	1.7
6	☐	12500.000	13185.158	32348140.91	83.3368	A	1.9
7	☐	25000.000	26117.524	63531873.50	165.0472	A	1.9
8	☐	50000.000	52754.079	125551064.8	333.3445	A	3.6
9	☐	250000.00	249290.59	556796027.2	1,575.118	A	6.4

$$y = 0.0063 * x + 0.0292$$

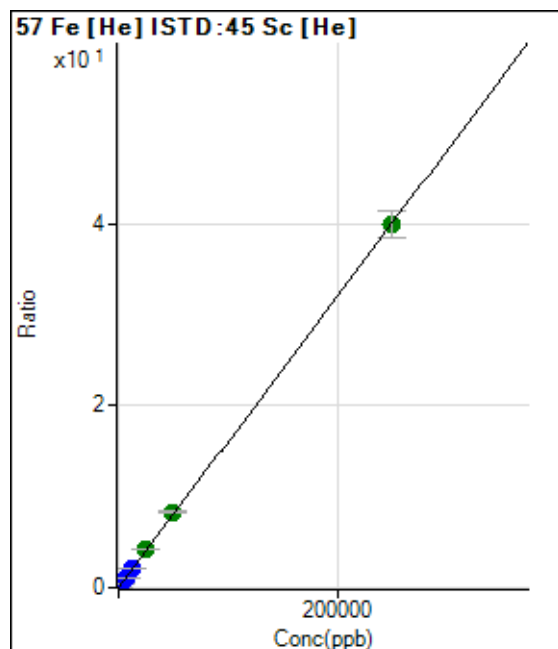
$$R = 0.9999$$

$$DL = 0.153$$

$$BEC = 4.623$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	868.92	0.0021	P	6.6
2	☐	5.000	3.923	1135.61	0.0027	P	5.6
3	☐	50.000	51.771	4315.10	0.0104	P	2.5
4	☐	2500.000	2784.784	183174.09	0.4472	P	0.7
5	☐	6250.000	7001.571	447517.33	1.1212	P	1.5
6	☐	12500.000	13782.279	855903.83	2.2050	P	1.2
7	☐	25000.000	26020.121	1601786.66	4.1610	A	1.9
8	☐	50000.000	51948.785	3128268.84	8.3053	A	3.6
9	☐	250000.00	249422.47	14087590.90	39.8685	A	7.3

$$y = 1.5983E-004 * x + 0.0021$$

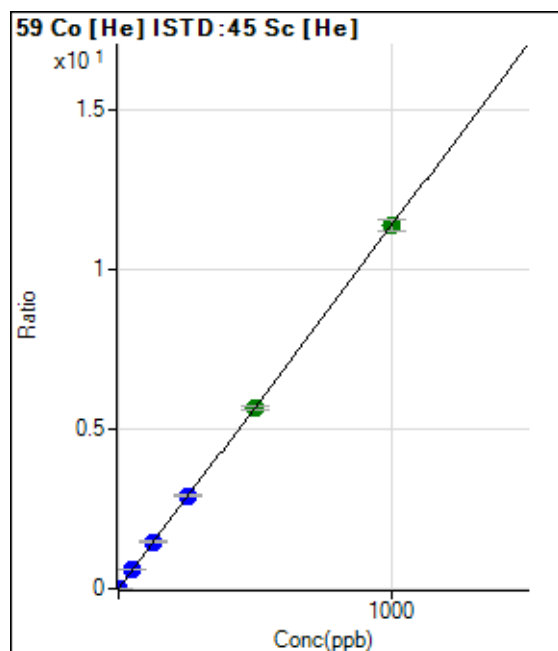
$$R = 1.0000$$

$$DL = 2.593$$

$$BEC = 13.02$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	114.45	0.0003	P	5.8
2	☐	0.100	0.087	531.13	0.0013	P	12.7
3	☐	1.000	0.949	4614.09	0.0111	P	2.8
4	☐	50.000	51.817	241573.81	0.5897	P	0.1
5	☐	125.000	129.576	588484.83	1.4743	P	1.1
6	☐	250.000	255.804	1129708.16	2.9103	P	1.2
7	☐	500.000	497.636	2179311.94	5.6614	A	1.6
8	☐	1000.000	999.068	4281291.64	11.3658	A	3.1
9	☐			11626.81	0.0329	P	6.3

$$y = 0.0114 * x + 2.7401E-004$$

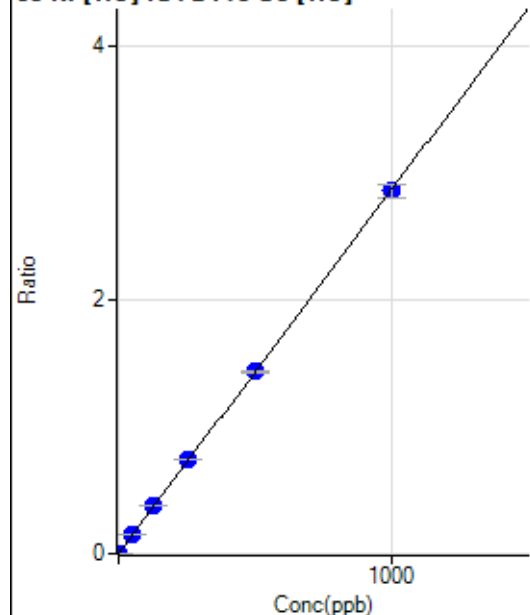
$$R = 1.0000$$

$$DL = 0.004207$$

$$BEC = 0.02409$$

Weight: <None>

Min Conc: 0

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

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	211.11	0.0005	P	4.5
2	☐	0.100	0.100	332.23	0.0008	P	1.6
3	☐	1.000	1.059	1473.42	0.0035	P	8.6
4	☐	50.000	53.604	63043.94	0.1539	P	0.9
5	☐	125.000	131.345	150236.84	0.3764	P	1.1
6	☐	250.000	258.144	286960.54	0.7393	P	1.5
7	☐	500.000	500.044	551072.67	1.4315	P	1.2
8	☐	1000.000	996.969	1074814.46	2.8536	P	3.5
9	☐			3518.22	0.0100	P	7.9

$$y = 0.0029 * x + 5.0545E-004$$

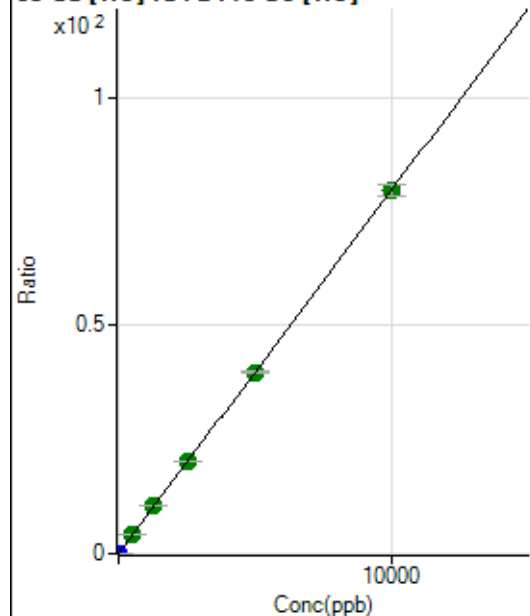
$$R = 1.0000$$

$$DL = 0.02406$$

$$BEC = 0.1766$$

Weight: <None>

Min Conc: 0

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

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1268.95	0.0030	P	4.5
2	☐	0.200	0.184	1890.14	0.0045	P	5.2
3	☐	2.000	2.001	7905.49	0.0190	P	0.4
4	☐	500.000	528.102	1723101.92	4.2067	A	0.7
5	☐	1250.000	1313.294	4173773.93	10.4567	A	1.1
6	☐	2500.000	2549.926	7880003.84	20.3001	A	0.8
7	☐	5000.000	4994.508	15306089.36	39.7585	A	0.5
8	☐	10000.000	9980.948	29925760.67	79.4498	A	3.4
9	☐			8190.09	0.0232	P	7.3

$$y = 0.0080 * x + 0.0030$$

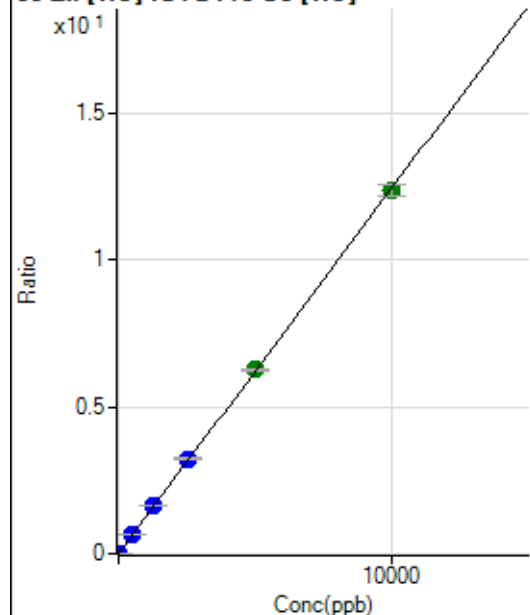
$$R = 1.0000$$

$$DL = 0.05106$$

$$BEC = 0.3817$$

Weight: <None>

Min Conc: 0

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

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	482.23	0.0012	P	7.2
2	☒	0.200					
3	☐	2.000	2.185	1613.44	0.0039	P	7.7
4	☐	500.000	532.599	271679.22	0.6633	P	0.4
5	☐	1250.000	1327.013	658927.01	1.6508	P	0.9
6	☐	2500.000	2604.645	1257341.98	3.2391	P	0.8
7	☐	5000.000	5051.581	2417878.80	6.2810	A	1.2
8	☐	10000.000	9936.791	4653509.93	12.3540	A	3.2
9	☐			4488.50	0.0127	P	4.6

$$y = 0.0012 * x + 0.0012$$

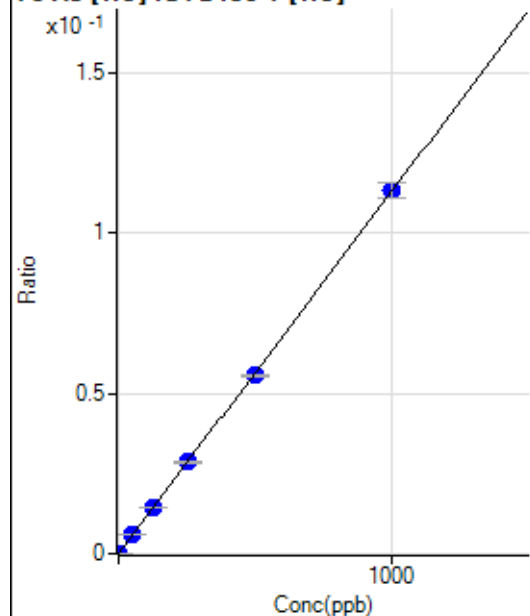
$$R = 0.9999$$

$$DL = 0.2004$$

$$BEC = 0.9289$$

Weight: <None>

Min Conc: 0

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

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	11.11	0.0000	P	46.3
2	☐	0.100	0.048	28.34	0.0000	P	9.1
3	☐	1.000	0.939	338.89	0.0001	P	5.9
4	☐	50.000	51.940	17976.58	0.0059	P	1.3
5	☐	125.000	128.323	43969.36	0.0145	P	1.1
6	☐	250.000	253.212	84591.30	0.0286	P	1.3
7	☐	500.000	493.058	165610.08	0.0557	P	1.4
8	☐	1000.000	1002.156	326964.32	0.1133	P	4.3
9	☐			111.11	0.0000	P	27.1

$$y = 1.1305E-004 * x + 3.6255E-006$$

$$R = 1.0000$$

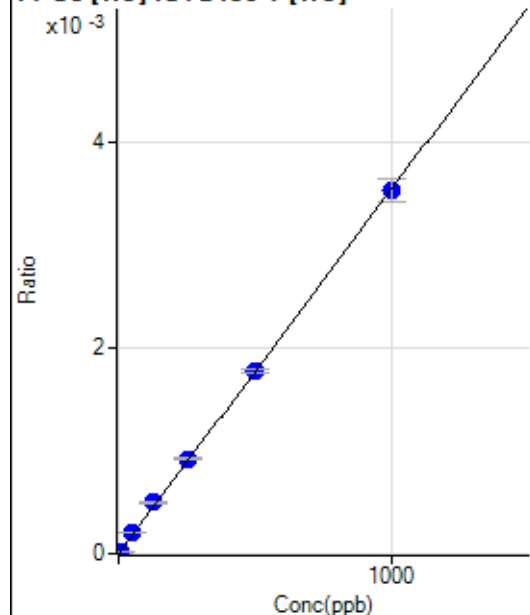
$$DL = 0.04453$$

$$BEC = 0.03207$$

Weight: <None>

Min Conc: 0

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1.11	0.0000	P	173.
2	☐	0.500	0.299	4.44	0.0000	P	42.7
3	☐	5.000	4.874	54.44	0.0000	P	14.2
4	☐	50.000	56.778	616.69	0.0002	P	3.9
5	☐	125.000	139.961	1503.43	0.0005	P	5.7
6	☐	250.000	260.361	2726.94	0.0009	P	2.5
7	☐	500.000	500.377	5269.87	0.0018	P	1.3
8	☐	1000.000	995.013	10171.35	0.0035	P	6.3
9	☐			44.44	0.0000	P	29.8

$$y = 3.5435\text{E-}006 * x + 3.6285\text{E-}007$$

$$R = 0.9998$$

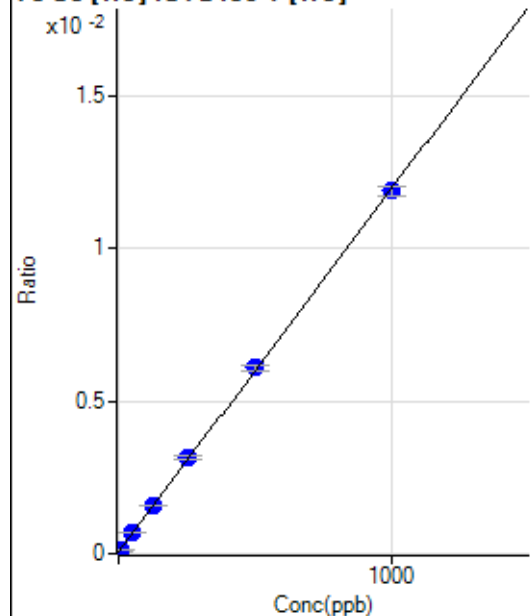
$$DL = 0.5321$$

$$BEC = 0.1024$$

Weight: <None>

Min Conc: 0

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	205.56	0.0001	P	11.7
2	☐	0.500	-0.124	204.45	0.0001	P	5.2
3	☐	5.000	5.356	403.34	0.0001	P	3.2
4	☐	50.000	52.348	2110.18	0.0007	P	2.3
5	☐	125.000	127.170	4786.37	0.0016	P	1.9
6	☐	250.000	258.485	9281.87	0.0031	P	2.8
7	☐	500.000	507.009	18113.40	0.0061	P	3.3
8	☐	1000.000	993.984	34329.80	0.0119	P	2.5
9	☐			364.45	0.0001	P	3.5

$$y = 1.1894\text{E-}005 * x + 6.7034\text{E-}005$$

$$R = 0.9999$$

$$DL = 1.98$$

$$BEC = 5.636$$

Weight: <None>

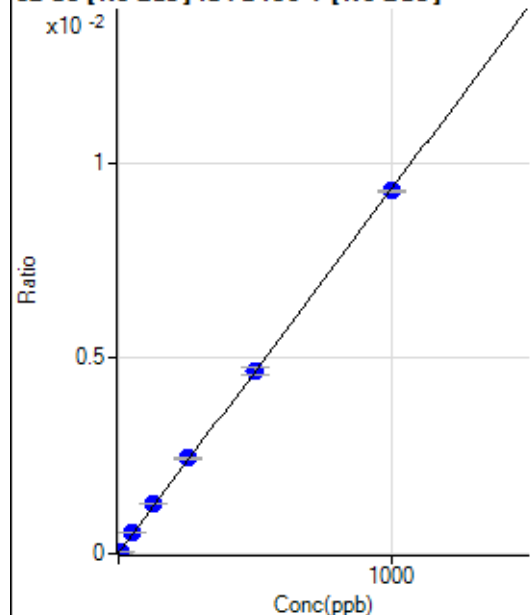
Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			24912.29		P	3.6
2	☐			25336.36		P	0.4
3	☐			25046.94		P	1.9
4	☐			25023.55		P	1.2
5	☐			23917.31		P	2.0
6	☐			23360.84		P	1.5
7	☐			23433.18		P	2.5
8	☐			23762.57		P	1.2
9	☐			24941.18		P	0.9

81 Br [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			126.67		P	2.6
2	☐			125.56		P	10.1
3	☐			98.89		P	1.9
4	☐			77.78		P	17.3
5	☐			87.78		P	14.4
6	☐			101.11		P	15.6
7	☐			115.56		P	1.7
8	☐			123.33		P	18.7
9	☐			528.90		P	8.8

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	217.53	0.0000	P	27.7
2	☐	0.500	0.560	293.18	0.0000	P	10.1
3	☐	5.000	5.184	944.66	0.0001	P	2.3
4	☐	50.000	54.534	7811.82	0.0005	P	2.0
5	☐	125.000	136.114	18594.21	0.0013	P	0.7
6	☐	250.000	260.251	35891.12	0.0024	P	2.3
7	☐	500.000	501.392	69004.21	0.0047	P	4.6
8	☐	1000.000	995.125	135450.13	0.0093	P	0.5
9	☐			999.89	0.0001	P	3.2

$$y = 9.3095E-006 * x + 1.4642E-005$$

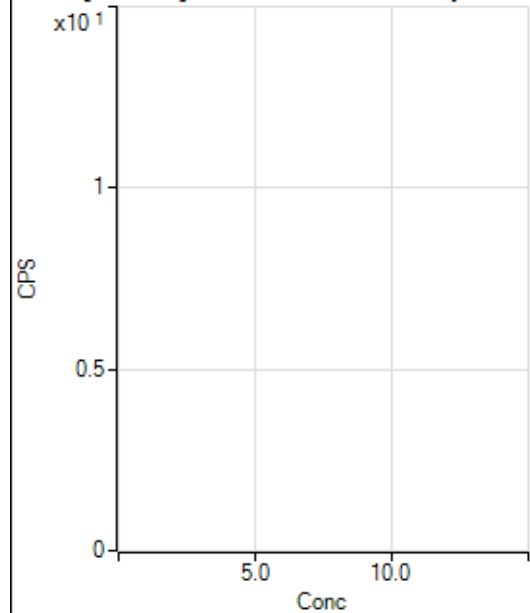
$$R = 0.9999$$

$$DL = 1.306$$

$$BEC = 1.573$$

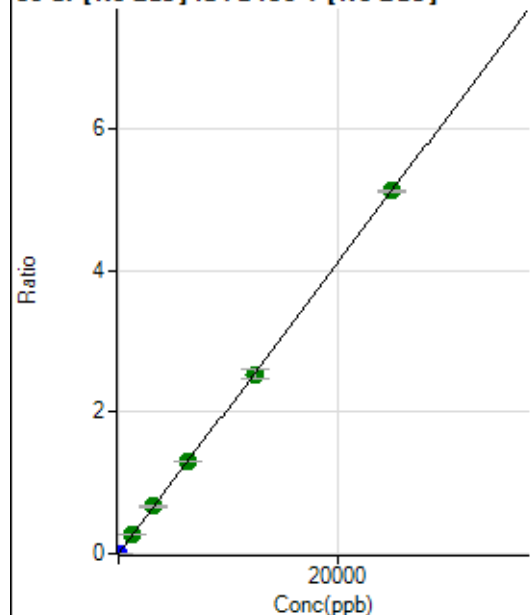
Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			180.00		P	9.3
2	☐			175.56		P	12.6
3	☐			164.45		P	23.7
4	☐			138.89		P	2.8
5	☐			174.45		P	17.3
6	☐			138.89		P	12.3
7	☐			201.12		P	12.7
8	☐			191.11		P	17.6
9	☐			224.45		P	17.3

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	256.67	0.0000	P	20.3
2	☐	0.100	0.117	608.91	0.0000	P	7.9
3	☐	1.000	0.939	3152.59	0.0002	P	3.9
4	☐	1250.000	1284.590	3942879.80	0.2636	A	1.2
5	☐	3125.000	3255.901	9693377.63	0.6682	A	0.6
6	☐	6250.000	6348.062	19184392.91	1.3028	A	1.5
7	☐	12500.000	12390.719	37472855.55	2.5428	A	4.7
8	☐	25000.000	25012.033	74932682.77	5.1330	A	0.8
9	☐			7793.24	0.0006	P	2.3

$$y = 2.0522\text{E-}004 * x + 1.7284\text{E-}005$$

$$R = 1.0000$$

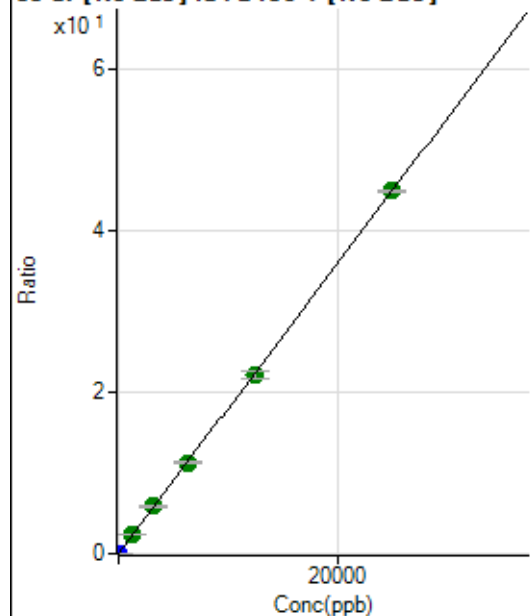
$$DL = 0.05135$$

$$BEC = 0.08422$$

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	215.56	0.0000	P	5.3
2	☐	0.100	0.097	2778.07	0.0002	P	4.2
3	☐	1.000	0.928	25245.06	0.0017	P	2.9
4	☐	1250.000	1271.850	34152589.77	2.2835	A	0.4
5	☐	3125.000	3254.322	84761589.85	5.8429	A	1.0
6	☐	6250.000	6303.308	166657651.9	11.3172	A	1.7
7	☐	12500.000	12332.573	326311848.4	22.1423	A	4.6
8	☐	25000.000	25053.129	656630701.3	44.9811	A	0.3
9	☐			67247.25	0.0051	P	2.6

$$y = 0.0018 * x + 1.4517\text{E-}005$$

$$R = 1.0000$$

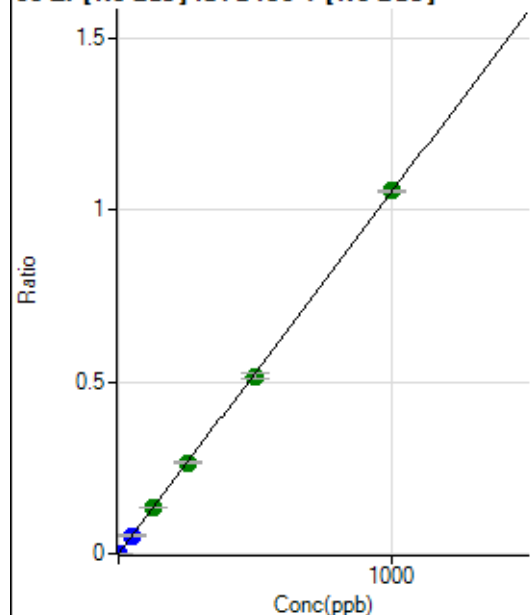
$$DL = 0.001292$$

$$BEC = 0.008085$$

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	600.02	0.0000	P	8.5
2	☐	0.100	0.088	1960.15	0.0001	P	8.8
3	☐	1.000	0.902	14843.15	0.0010	P	1.4
4	☐	50.000	50.417	792764.23	0.0530	P	1.6
5	☐	125.000	129.088	1968107.56	0.1357	A	0.8
6	☐	250.000	250.640	3878242.89	0.2634	A	2.4
7	☐	500.000	491.814	7616352.18	0.5168	A	4.1
8	☐	1000.000	1003.401	15389975.19	1.0542	A	0.2
9	☐			6629.33	0.0005	P	3.1

$$y = 0.0011 * x + 4.0417E-005$$

$$R = 0.9999$$

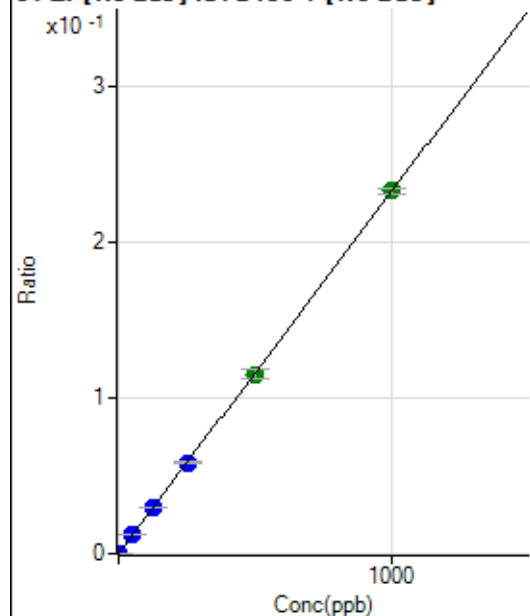
$$DL = 0.009765$$

$$BEC = 0.03847$$

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	132.23	0.0000	P	15.7
2	☐	0.100	0.082	414.45	0.0000	P	7.6
3	☐	1.000	0.870	3170.38	0.0002	P	5.0
4	☐	50.000	50.835	176885.54	0.0118	P	0.6
5	☐	125.000	129.386	436479.32	0.0301	P	0.8
6	☐	250.000	250.912	859080.62	0.0583	P	2.4
7	☐	500.000	494.549	1694160.63	0.1150	A	5.4
8	☐	1000.000	1001.908	3400457.45	0.2329	A	1.3
9	☐			1395.64	0.0001	P	3.6

$$y = 2.3249E-004 * x + 8.9073E-006$$

$$R = 1.0000$$

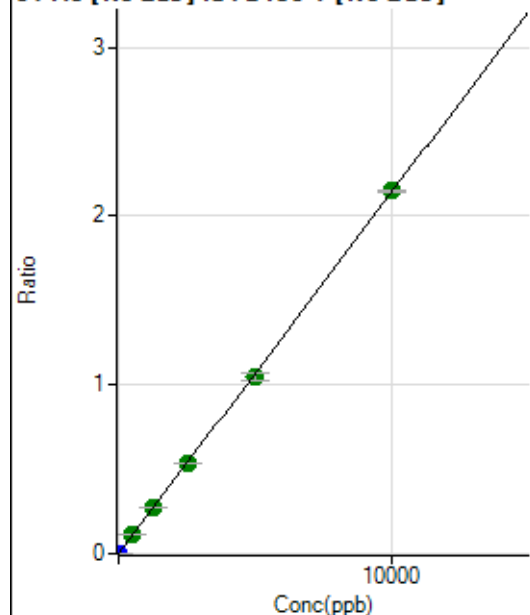
$$DL = 0.0181$$

$$BEC = 0.03831$$

Weight: <None>

Min Conc: 0

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	232.23	0.0000	P	10.8
2	☐	0.500	0.571	2033.50	0.0001	P	2.3
3	☐	5.000	5.425	17664.05	0.0012	P	1.0
4	☐	500.000	511.186	1635550.83	0.1094	A	1.2
5	☐	1250.000	1287.128	3994248.73	0.2753	A	0.8
6	☐	2500.000	2506.181	7894743.35	0.5361	A	1.2
7	☐	5000.000	4896.467	15434934.77	1.0474	A	4.8
8	☐	10000.000	10045.021	31367463.70	2.1487	A	0.6
9	☐			6266.96	0.0005	P	5.3

$$y = 2.1391\text{E-}004 * x + 1.5639\text{E-}005$$

$$R = 0.9999$$

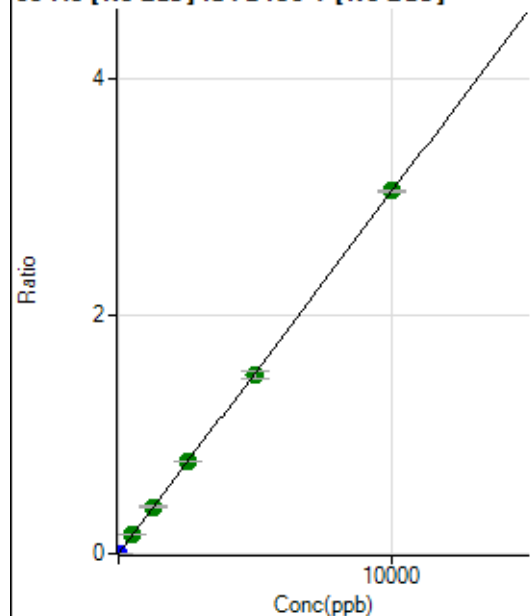
$$DL = 0.02375$$

$$BEC = 0.07311$$

Weight: <None>

Min Conc: 0

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	174.45	0.0000	P	7.9
2	☐	0.500	0.458	2233.53	0.0002	P	2.9
3	☐	5.000	4.671	21553.73	0.0014	P	1.3
4	☐	500.000	513.458	2340246.10	0.1565	A	0.8
5	☐	1250.000	1298.226	5738936.58	0.3956	A	0.8
6	☐	2500.000	2543.503	11414367.19	0.7751	A	1.0
7	☐	5000.000	4921.298	22101253.00	1.4997	A	4.5
8	☐	10000.000	10021.774	44581637.67	3.0539	A	0.7
9	☐			6415.90	0.0005	P	2.5

$$y = 3.0473\text{E-}004 * x + 1.1745\text{E-}005$$

$$R = 0.9999$$

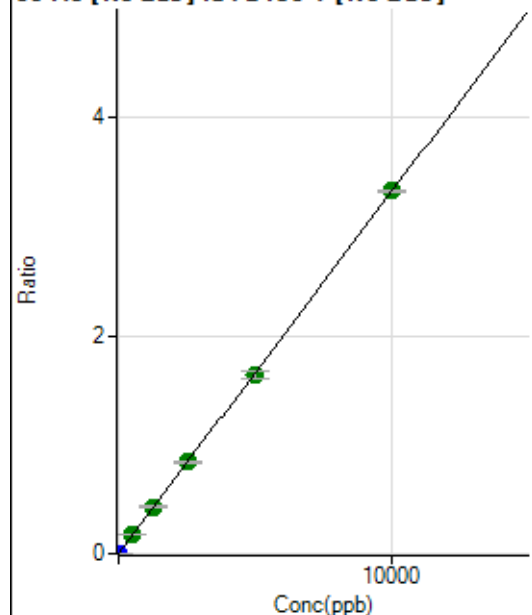
$$DL = 0.009095$$

$$BEC = 0.03854$$

Weight: <None>

Min Conc: 0

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	103.33	0.0000	P	16.3
2	☐	0.500	0.476	2435.78	0.0002	P	2.7
3	☐	5.000	4.770	23890.66	0.0016	P	2.2
4	☐	500.000	517.522	2569883.90	0.1718	A	1.9
5	☐	1250.000	1293.004	6227916.16	0.4293	A	1.5
6	☐	2500.000	2527.555	12359248.01	0.8393	A	1.0
7	☐	5000.000	4927.400	24111147.97	1.6361	A	4.6
8	☐	10000.000	10023.160	48584135.94	3.3281	A	0.7
9	☐			16274.74	0.0012	P	1.6

$$y = 3.3204\text{E-}004 * x + 6.9512\text{E-}006$$

$$R = 1.0000$$

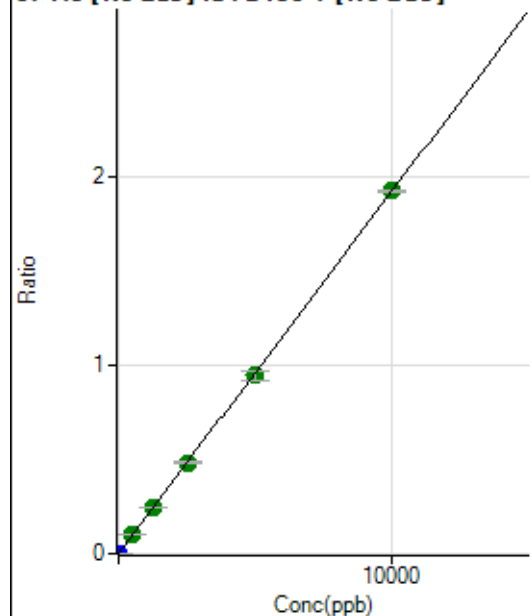
$$DL = 0.01026$$

$$BEC = 0.02093$$

Weight: <None>

Min Conc: 0

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	62.22	0.0000	P	9.0
2	☐	0.500	0.468	1386.75	0.0001	P	2.9
3	☐	5.000	4.537	13111.52	0.0009	P	4.8
4	☐	500.000	509.438	1459938.88	0.0976	A	0.7
5	☐	1250.000	1282.797	3565605.47	0.2458	A	1.3
6	☐	2500.000	2516.849	7101800.52	0.4822	A	1.1
7	☐	5000.000	4927.770	13913261.74	0.9442	A	5.0
8	☐	10000.000	10027.332	28047270.42	1.9213	A	0.4
9	☐			3731.62	0.0003	P	1.5

$$y = 1.9161\text{E-}004 * x + 4.1916\text{E-}006$$

$$R = 1.0000$$

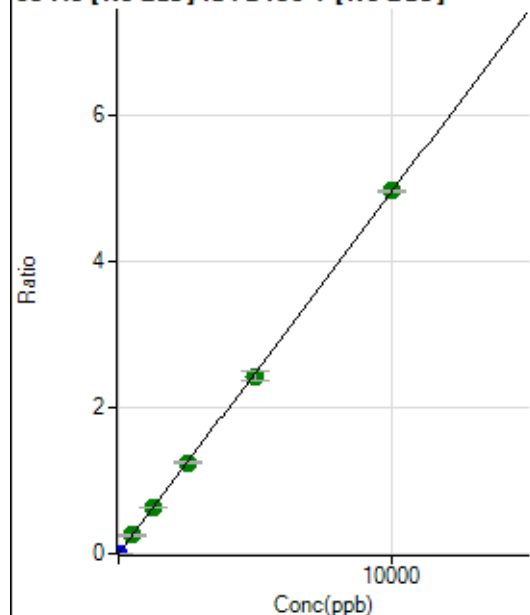
$$DL = 0.00593$$

$$BEC = 0.02188$$

Weight: <None>

Min Conc: 0

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	65.55	0.0000	P	17.1
2	☐	0.500	0.483	3593.81	0.0002	P	1.1
3	☐	5.000	4.625	34390.47	0.0023	P	3.0
4	☐	500.000	505.658	3738165.22	0.2500	A	0.9
5	☐	1250.000	1291.173	9258345.77	0.6382	A	0.8
6	☐	2500.000	2514.138	18300661.25	1.2427	A	1.3
7	☐	5000.000	4915.705	35800941.69	2.4298	A	5.4
8	☐	10000.000	10033.184	72398258.92	4.9594	A	0.8
9	☐			8970.62	0.0007	P	2.3

$$y = 4.9430E-004 * x + 4.4179E-006$$

$$R = 0.9999$$

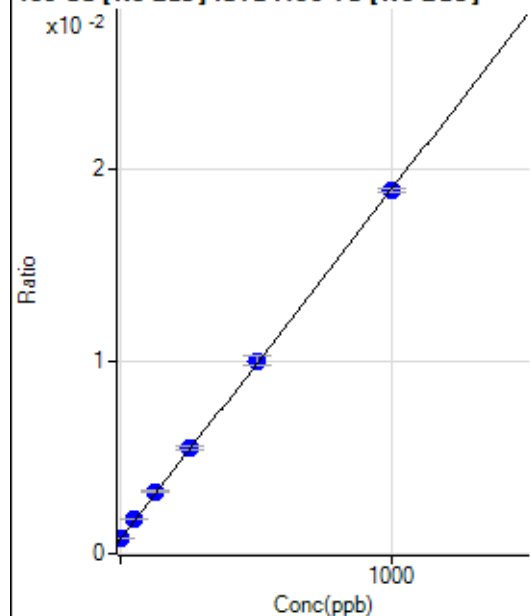
$$DL = 0.004589$$

$$BEC = 0.008938$$

Weight: <None>

Min Conc: 0

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	10189.21	0.0008	P	1.6
2	☐	0.100	-0.188	10224.80	0.0008	P	1.8
3	☐	1.000	0.435	10407.15	0.0008	P	0.3
4	☐	50.000	53.428	22824.71	0.0018	P	1.2
5	☐	125.000	133.763	40993.24	0.0032	P	1.1
6	☐	250.000	259.005	70443.02	0.0055	P	3.0
7	☐	500.000	507.320	129090.75	0.0101	P	4.8
8	☐	1000.000	992.823	239929.96	0.0189	P	1.0
9	☐			8782.74	0.0008	P	2.3

$$y = 1.8238E-005 * x + 8.0044E-004$$

$$R = 0.9999$$

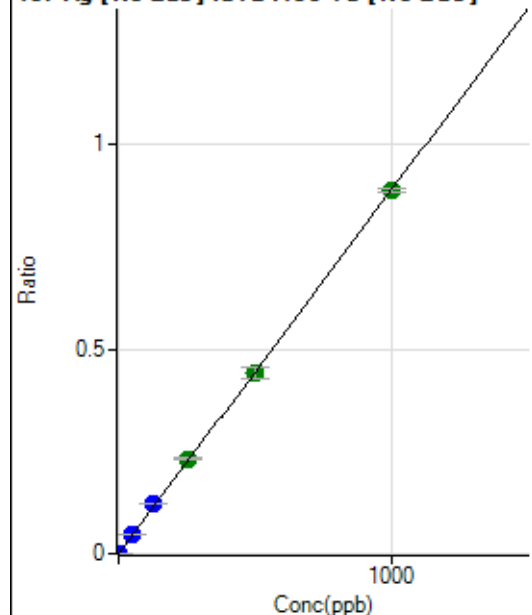
$$DL = 2.099$$

$$BEC = 43.89$$

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	96.67	0.0000	P	10.9
2	☐	0.100	0.081	1024.49	0.0001	P	9.7
3	☐	1.000	0.920	10611.75	0.0008	P	1.5
4	☐	50.000	54.722	625219.75	0.0486	P	0.5
5	☐	125.000	135.226	1519927.81	0.1201	P	0.1
6	☐	250.000	261.318	2960492.11	0.2321	A	1.6
7	☐	500.000	496.594	5663433.46	0.4411	A	5.5
8	☐	1000.000	997.359	11242148.72	0.8860	A	1.2
9	☐			1585.66	0.0001	P	4.8

$$y = 8.8829E-004 * x + 7.5973E-006$$

$$R = 0.9999$$

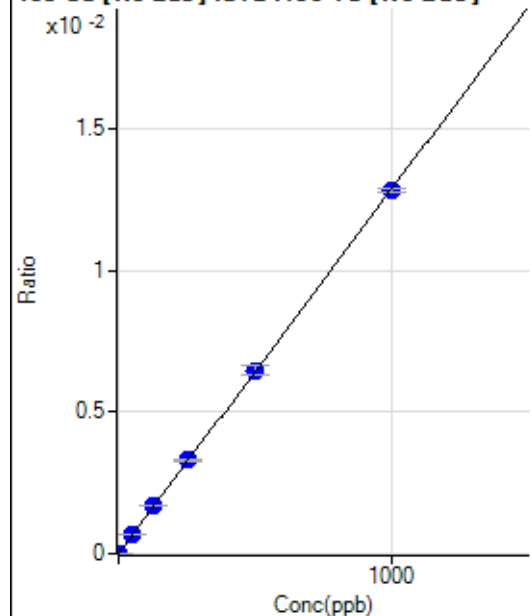
$$DL = 0.002803$$

$$BEC = 0.008553$$

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	30.00	0.0000	P	10.8
2	☐	0.100	0.079	43.33	0.0000	P	0.6
3	☐	1.000	0.865	173.34	0.0000	P	13.0
4	☐	50.000	53.737	8926.15	0.0007	P	0.6
5	☐	125.000	133.283	21736.43	0.0017	P	0.9
6	☐	250.000	258.161	42410.78	0.0033	P	1.8
7	☐	500.000	502.031	83002.31	0.0065	P	5.3
8	☐	1000.000	995.722	162676.36	0.0128	P	0.9
9	☐			111.11	0.0000	P	21.8

$$y = 1.2872E-005 * x + 2.3563E-006$$

$$R = 0.9999$$

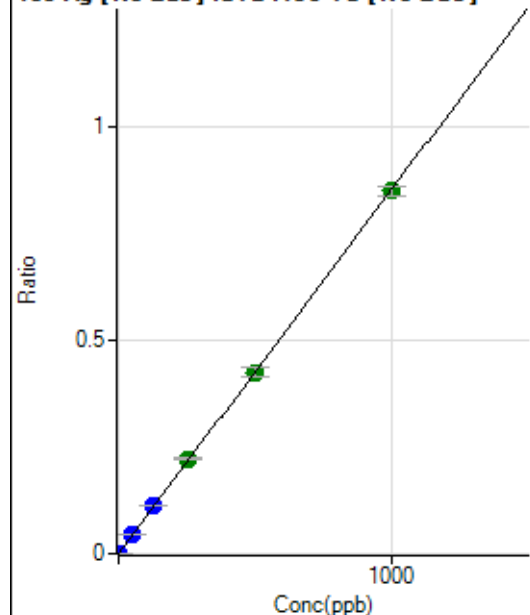
$$DL = 0.05931$$

$$BEC = 0.183$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	35.56	0.0000	P	51.6
2	☐	0.100	0.084	948.93	0.0001	P	8.2
3	☐	1.000	0.917	10079.13	0.0008	P	2.0
4	☐	50.000	54.131	592646.03	0.0461	P	1.0
5	☐	125.000	134.257	1446096.16	0.1143	P	0.3
6	☐	250.000	261.095	2834394.58	0.2223	A	2.5
7	☐	500.000	498.368	5447398.81	0.4243	A	5.1
8	☐	1000.000	996.679	10765837.89	0.8485	A	2.7
9	☐			1578.99	0.0001	P	2.2

$$y = 8.5129\text{E-}004 * x + 2.7937\text{E-}006$$

$$R = 0.9999$$

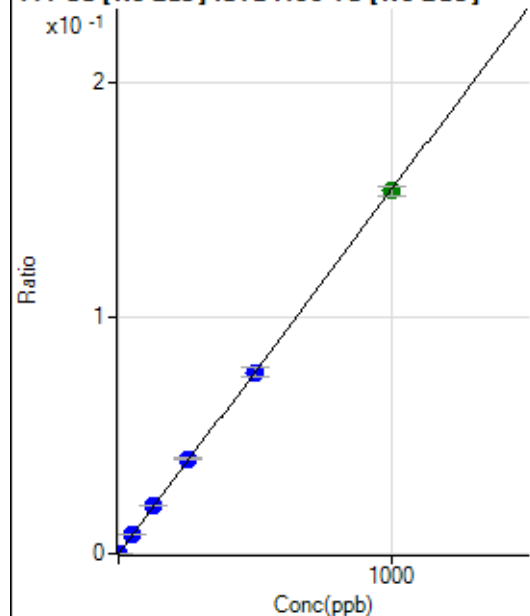
$$DL = 0.005084$$

$$BEC = 0.003282$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	100.89	0.0000	P	1.8
2	☐	0.100	0.098	296.37	0.0000	P	6.8
3	☐	1.000	1.020	2128.47	0.0002	P	0.6
4	☐	50.000	53.465	106173.89	0.0083	P	0.9
5	☐	125.000	133.069	259825.00	0.0205	P	1.1
6	☐	250.000	259.850	511291.53	0.0401	P	2.7
7	☐	500.000	498.894	988284.36	0.0770	P	5.3
8	☐	1000.000	996.909	1951590.30	0.1538	A	2.4
9	☐			807.85	0.0001	P	1.2

$$y = 1.5427\text{E-}004 * x + 7.9253\text{E-}006$$

$$R = 0.9999$$

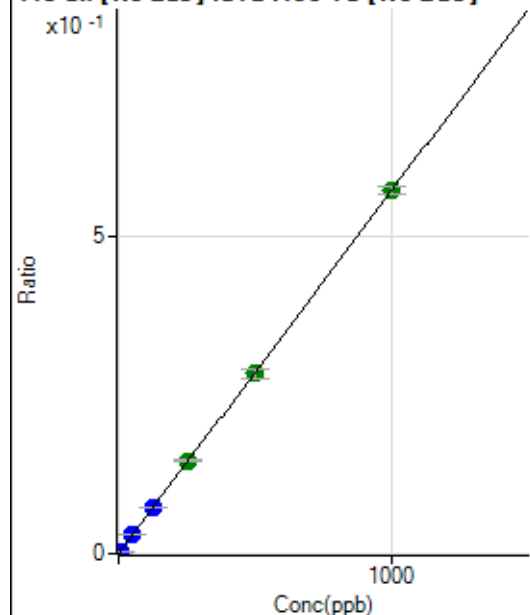
$$DL = 0.002733$$

$$BEC = 0.05137$$

Weight: <None>

Min Conc: 0

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	970.05	0.0001	P	5.0
2	☐	0.500	0.478	4488.54	0.0003	P	4.3
3	☐	5.000	4.710	35698.58	0.0028	P	1.8
4	☐	50.000	51.743	382063.31	0.0297	P	0.9
5	☐	125.000	129.183	937050.94	0.0741	P	0.3
6	☐	250.000	256.001	1870584.80	0.1467	A	2.5
7	☐	500.000	496.201	3649400.92	0.2843	A	5.4
8	☐	1000.000	999.790	7266366.07	0.5727	A	2.0
9	☐			4229.56	0.0004	P	4.8

$$y = 5.7270\text{E-}004 * x + 7.6193\text{E-}005$$

$$R = 1.0000$$

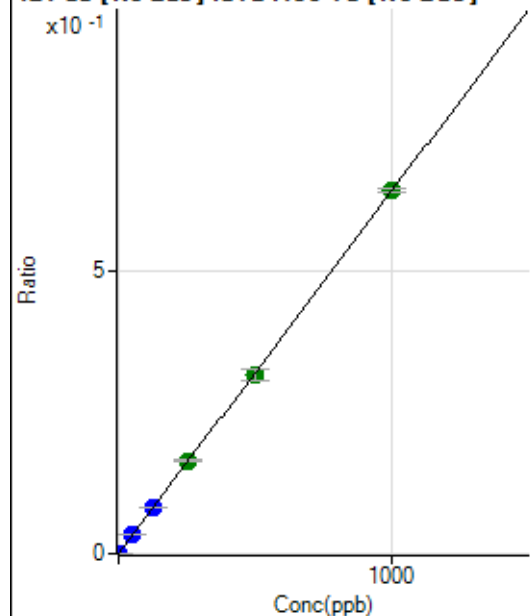
$$DL = 0.02004$$

$$BEC = 0.133$$

Weight: <None>

Min Conc: 0

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	55.56	0.0000	P	9.7
2	☐	0.200	0.185	1585.66	0.0001	P	4.9
3	☐	2.000	1.886	15655.28	0.0012	P	2.9
4	☐	50.000	51.040	421993.85	0.0328	P	0.6
5	☐	125.000	128.113	1042057.34	0.0824	P	0.1
6	☐	250.000	255.832	2097357.10	0.1645	A	2.3
7	☐	500.000	493.498	4072168.51	0.3172	A	6.1
8	☐	1000.000	1001.352	8168145.36	0.6437	A	1.2
9	☐			2798.08	0.0002	P	6.5

$$y = 6.4283\text{E-}004 * x + 4.3659\text{E-}006$$

$$R = 1.0000$$

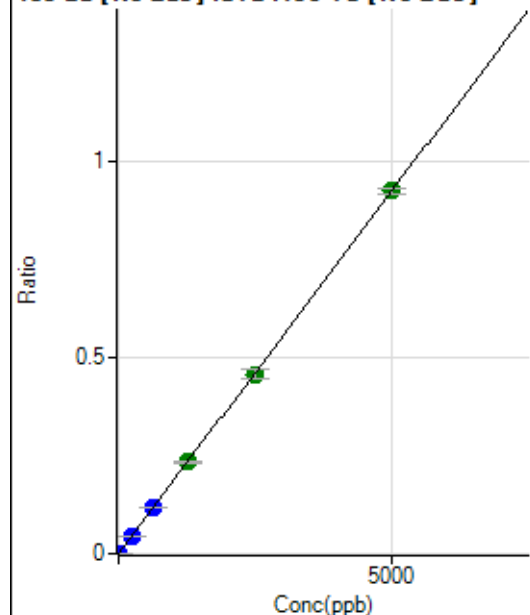
$$DL = 0.001981$$

$$BEC = 0.006792$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	21.11	0.0000	P	8.6
2	☐	1.000	0.912	2180.19	0.0002	P	4.1
3	☐	10.000	9.188	21834.59	0.0017	P	1.8
4	☐	250.000	248.558	589591.79	0.0458	P	0.3
5	☐	625.000	625.930	1460674.13	0.1154	P	0.7
6	☐	1250.000	1267.391	2981195.65	0.2338	A	2.0
7	☐	2500.000	2476.361	5864321.30	0.4567	A	5.3
8	☐	5000.000	5007.429	11719657.05	0.9236	A	1.3
9	☐			5792.34	0.0005	P	2.1

$$y = 1.8444\text{E-}004 * x + 1.6579\text{E-}006$$

$$R = 1.0000$$

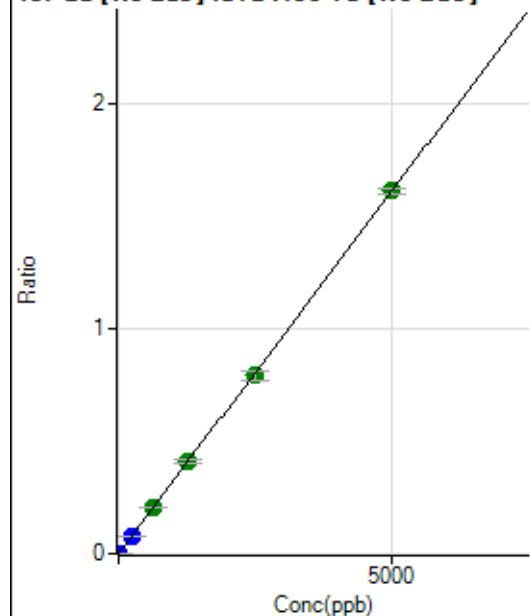
$$DL = 0.002316$$

$$BEC = 0.008988$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	43.33	0.0000	P	20.8
2	☐	1.000	0.926	3866.11	0.0003	P	0.6
3	☐	10.000	9.153	37943.85	0.0029	P	2.0
4	☐	250.000	248.939	1029994.94	0.0801	P	0.5
5	☐	625.000	647.947	2637630.83	0.2085	A	0.5
6	☐	1250.000	1272.247	5219366.35	0.4093	A	2.9
7	☐	2500.000	2463.926	10177361.86	0.7927	A	5.5
8	☐	5000.000	5009.661	20451540.53	1.6117	A	1.5
9	☐			10042.52	0.0009	P	1.9

$$y = 3.2172\text{E-}004 * x + 3.4067\text{E-}006$$

$$R = 0.9999$$

$$DL = 0.006623$$

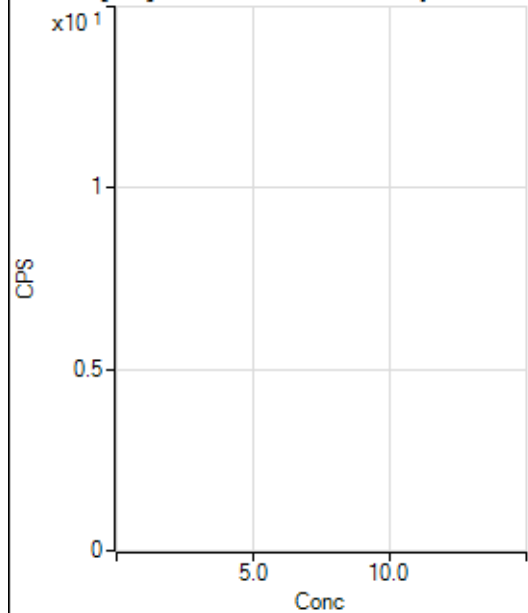
$$BEC = 0.01059$$

Weight: <None>

Min Conc: 0

150 Nd [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			4.44		P	43.4
2	☐			5.56		P	91.6
3	☐			12.22		P	31.5
4	☐			90.00		P	0.0
5	☐			168.89		P	14.3
6	☐			350.01		P	7.6
7	☐			685.58		P	2.8
8	☐			1274.52		P	0.7
9	☐			362.23		P	1.9

150 Nd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			3.33		P	173.
2	☐			2.22		P	173.
3	☐			3.33		P	100.
4	☐			21.11		P	18.2
5	☐			26.67		P	45.1
6	☐			44.44		P	21.7
7	☐			108.89		P	11.6
8	☐			230.01		P	0.0
9	☐			186.67		P	6.4

156 Dy [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			6.67		P	50.0
2	☐			3.33		P	0.0
3	☐			25.56		P	32.8
4	☐			45.56		P	33.8
5	☐			101.11		P	10.6
6	☐			194.45		P	11.0
7	☐			332.23		P	12.7
8	☐			718.91		P	4.1
9	☐			1849.03		P	4.4

156 Dy [He] No available calibration points

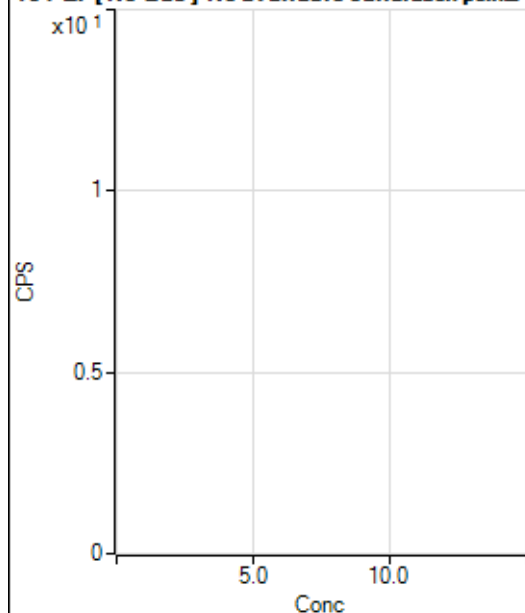
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			8.89		P	78.1
2	☐			5.56		P	34.7
3	☐			5.55		P	69.3
4	☐			42.22		P	4.6
5	☐			74.44		P	15.7
6	☐			173.34		P	8.8
7	☐			291.12		P	12.2
8	☐			656.69		P	8.9
9	☐			1226.73		P	2.9

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

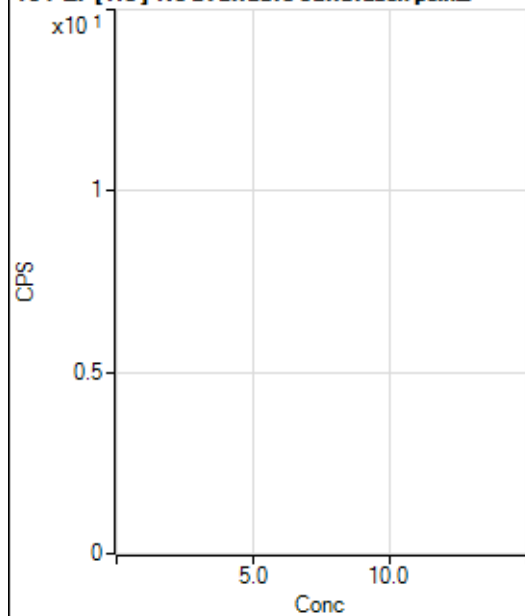
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			96.67		P	11.9
2	☐			101.11		P	19.3
3	☐			108.89		P	7.7
4	☐			112.22		P	22.3
5	☐			161.11		P	26.6
6	☐			208.89		P	4.0
7	☐			348.90		P	11.9
8	☐			541.13		P	16.3
9	☐			2025.72		P	5.6

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			355.57		P	6.1
2	☐			301.12		P	6.5
3	☐			328.89		P	3.3
4	☐			350.01		P	5.3
5	☐			344.45		P	3.0
6	☐			402.23		P	2.9
7	☐			412.23		P	8.2
8	☐			658.92		P	13.4
9	☐			1471.21		P	6.5

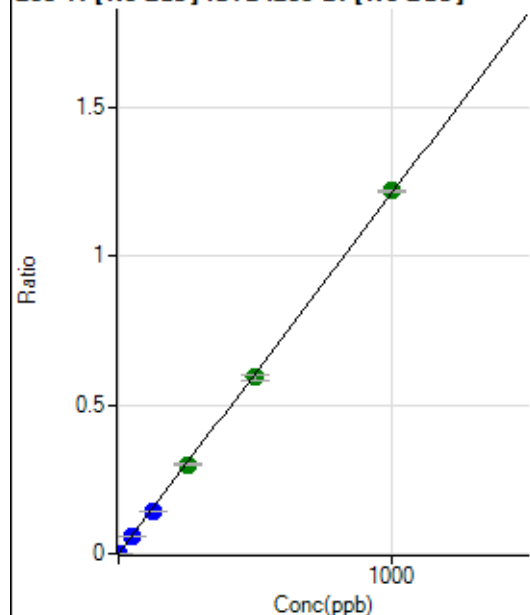
164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			103.33		P	8.5
2	☐			128.89		P	13.0
3	☐			110.00		P	5.2
4	☐			90.00		P	18.5
5	☐			122.23		P	8.3
6	☐			106.67		P	3.1
7	☐			136.67		P	25.8
8	☐			202.22		P	11.6
9	☐			324.45		P	19.3

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			56.67		P	15.6
2	☐			38.89		P	27.5
3	☐			62.22		P	11.1
4	☐			81.11		P	8.6
5	☐			60.00		P	19.2
6	☐			65.56		P	36.1
7	☐			70.00		P	20.8
8	☐			86.67		P	13.9
9	☐			160.00		P	16.5

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	223.34	0.0000	P	23.4
2	☐	0.100	0.085	1026.72	0.0001	P	5.6
3	☐	1.000	0.825	7986.85	0.0010	P	3.6
4	☐	50.000	46.112	436176.79	0.0559	P	1.2
5	☐	125.000	117.243	1087505.16	0.1421	P	0.5
6	☐	250.000	246.711	2291147.29	0.2991	A	2.2
7	☐	500.000	489.860	4534201.25	0.5938	A	3.7
8	☐	1000.000	1007.057	9043768.82	1.2207	A	0.6
9	☐			1134.50	0.0002	P	3.3

$$y = 0.0012 * x + 2.9013E-005$$

$$R = 0.9999$$

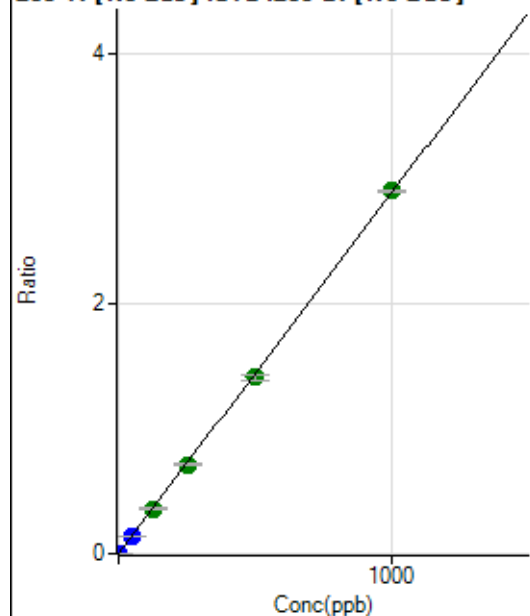
$$DL = 0.01681$$

$$BEC = 0.02394$$

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	562.24	0.0001	P	6.4
2	☐	0.100	0.086	2488.03	0.0003	P	1.8
3	☐	1.000	0.854	19683.19	0.0025	P	1.9
4	☐	50.000	46.300	1041871.96	0.1336	P	1.2
5	☐	125.000	124.678	2751009.61	0.3596	A	1.2
6	☐	250.000	247.836	5475094.36	0.7147	A	2.0
7	☐	500.000	488.563	10757158.17	1.4089	A	3.9
8	☐	1000.000	1006.485	21501820.37	2.9023	A	0.5
9	☐			2775.87	0.0004	P	7.1

$$y = 0.0029 * x + 7.3024E-005$$

$$R = 0.9999$$

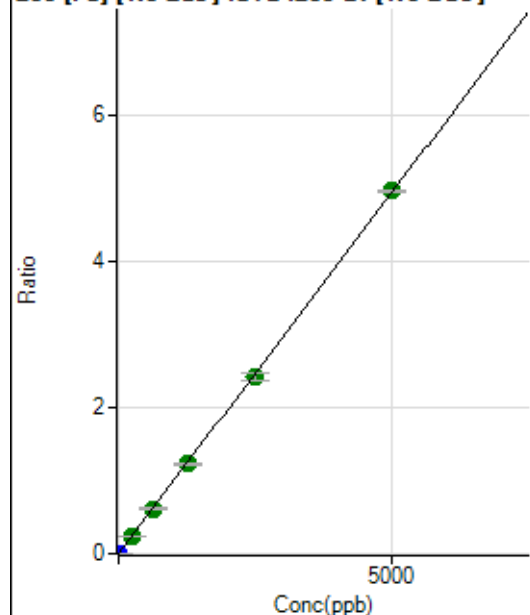
$$DL = 0.00486$$

$$BEC = 0.02532$$

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	317.78	0.0000	P	7.2
2	☐	0.100	0.083	961.16	0.0001	P	5.5
3	☐	1.000	0.865	6965.18	0.0009	P	3.0
4	☐	250.000	247.236	1907368.44	0.2446	A	2.5
5	☐	625.000	622.290	4709271.81	0.6155	A	1.6
6	☐	1250.000	1243.039	9418049.23	1.2295	A	2.5
7	☐	2500.000	2452.427	18516253.06	2.4256	A	4.8
8	☐	5000.000	5026.004	36828462.78	4.9709	A	0.3
9	☐			13693.65	0.0022	P	1.8

$$y = 9.8904\text{E-}004 * x + 4.1283\text{E-}005$$

$$R = 0.9999$$

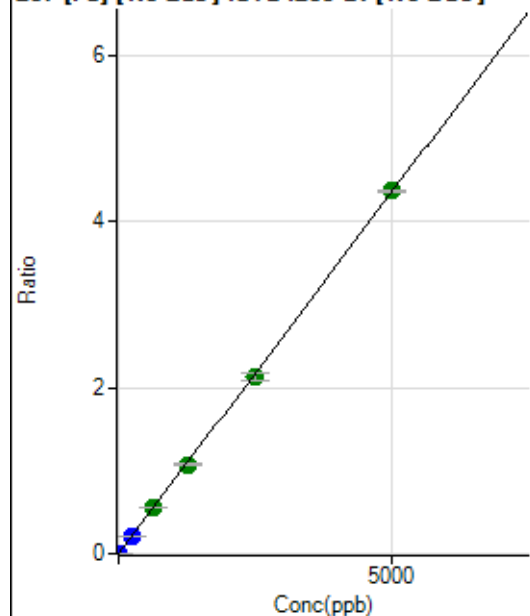
$$DL = 0.009049$$

$$BEC = 0.04174$$

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	254.45	0.0000	P	12.8
2	☐	0.100	0.085	832.25	0.0001	P	4.4
3	☐	1.000	0.839	5923.58	0.0008	P	1.6
4	☐	250.000	232.222	1575839.68	0.2020	P	1.2
5	☐	625.000	630.518	4196767.47	0.5485	A	1.0
6	☐	1250.000	1238.014	8250193.84	1.0770	A	2.4
7	☐	2500.000	2458.730	16328376.98	2.1389	A	4.6
8	☐	5000.000	5023.831	32378739.80	4.3703	A	0.5
9	☐			11528.31	0.0019	P	1.6

$$y = 8.6991\text{E-}004 * x + 3.3058\text{E-}005$$

$$R = 0.9999$$

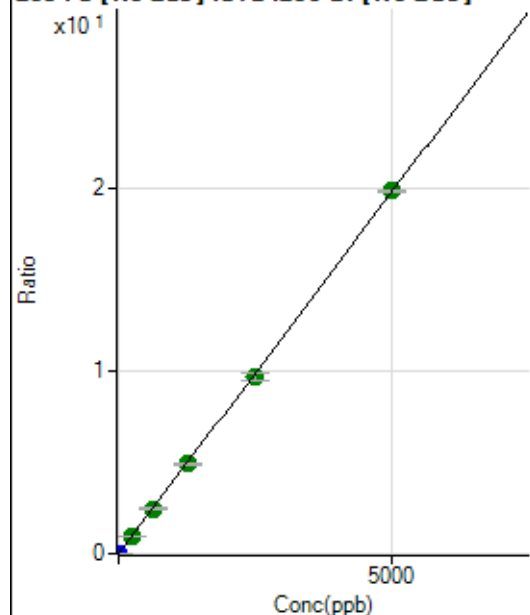
$$DL = 0.01461$$

$$BEC = 0.038$$

Weight: <None>

Min Conc: 0

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1422.27	0.0002	P	6.7
2	☐	0.100	0.086	4071.41	0.0005	P	6.3
3	☐	1.000	0.847	27485.59	0.0035	P	2.3
4	☐	250.000	244.675	7560420.60	0.9694	A	1.4
5	☐	625.000	625.736	18964969.97	2.4788	A	1.1
6	☐	1250.000	1241.837	37683650.69	4.9192	A	2.1
7	☐	2500.000	2455.432	74248008.06	9.7264	A	4.8
8	☐	5000.000	5024.499	147454004.7	19.9027	A	0.2
9	☐			53848.81	0.0087	P	1.2

$$y = 0.0040 * x + 1.8473E-004$$

$$R = 0.9999$$

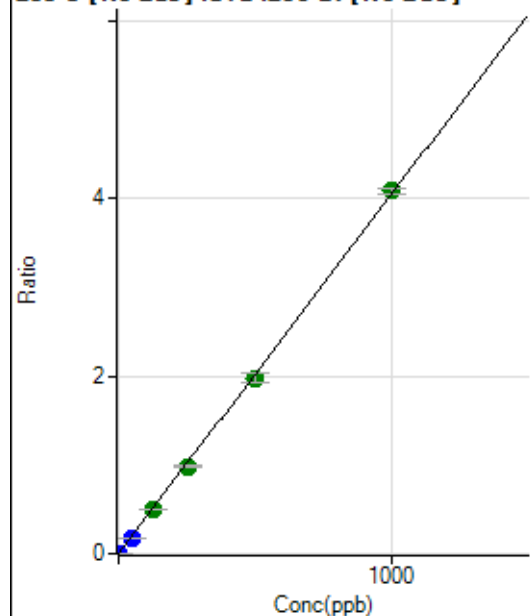
$$DL = 0.009313$$

$$BEC = 0.04664$$

Weight: <None>

Min Conc: 0

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	10.00	0.0000	P	66.5
2	☐	0.100	0.080	2506.93	0.0003	P	3.1
3	☐	1.000	0.819	25732.63	0.0033	P	1.2
4	☐	50.000	44.045	1388904.79	0.1781	P	1.7
5	☐	125.000	121.678	3763886.82	0.4920	A	0.9
6	☐	250.000	241.028	7465150.93	0.9745	A	2.1
7	☐	500.000	487.849	15055526.86	1.9724	A	5.1
8	☐	1000.000	1009.032	30225628.71	4.0796	A	1.3
9	☐			5930.27	0.0010	P	1.9

$$y = 0.0040 * x + 1.2974E-006$$

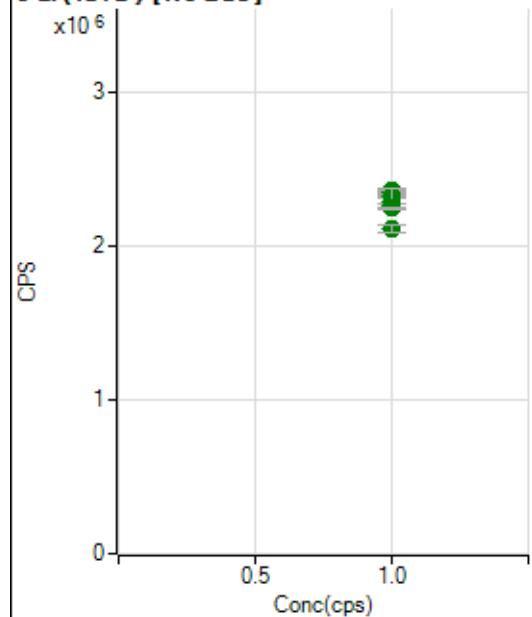
$$R = 0.9998$$

$$DL = 0.0006399$$

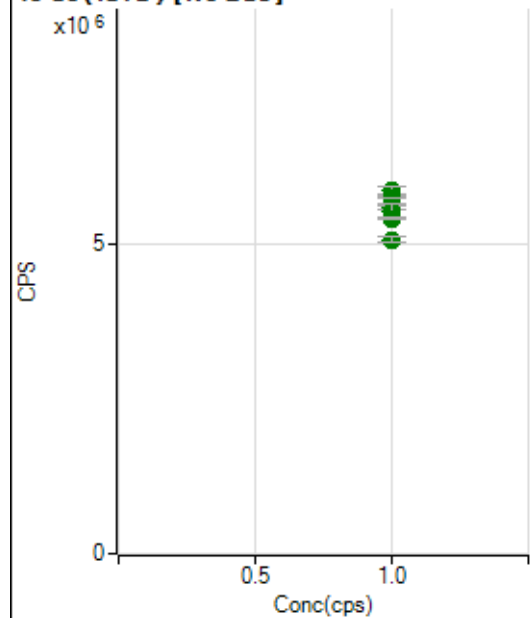
$$BEC = 0.0003209$$

Weight: <None>

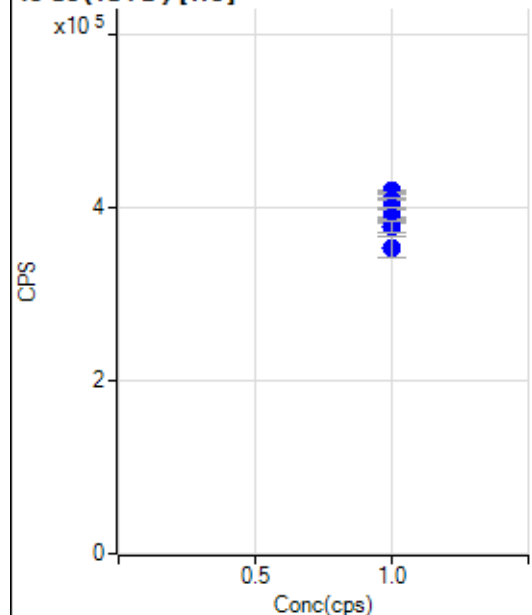
Min Conc: 0

6 Li (ISTD) [No Gas]

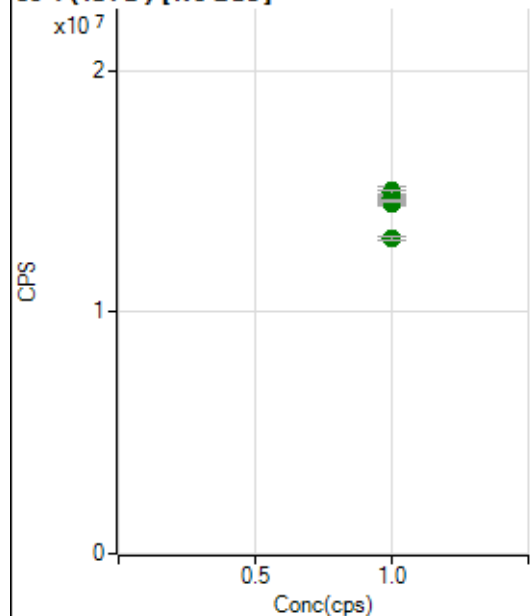
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2261225.38		A	1.2
2	☐	1.000		2292042.42		A	1.7
3	☐	1.000		2331005.64		A	1.5
4	☐	1.000		2358254.93		A	0.7
5	☐	1.000		2322488.02		A	1.2
6	☐	1.000		2343901.75		A	1.5
7	☐	1.000		2326070.07		A	4.1
8	☐	1.000		2247293.59		A	0.4
9	☐	1.000		2114061.41		A	2.2

45 Sc (ISTD) [No Gas]

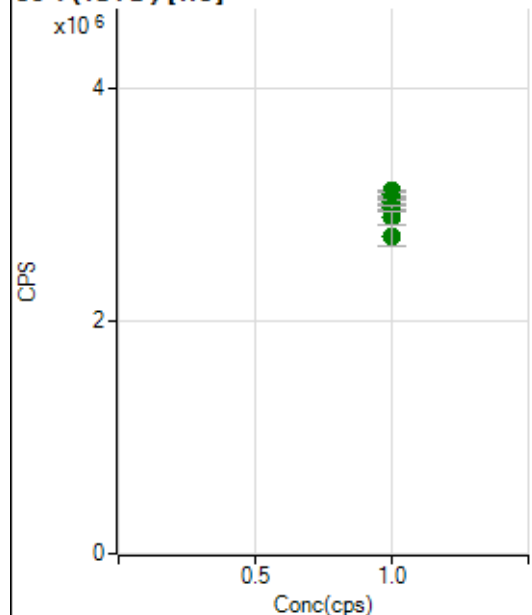
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5744707.49		A	0.2
2	☐	1.000		5793322.07		A	0.4
3	☐	1.000		5854624.08		A	2.9
4	☐	1.000		5746001.51		A	0.3
5	☐	1.000		5592188.46		A	1.0
6	☐	1.000		5581238.95		A	0.9
7	☐	1.000		5530849.15		A	3.7
8	☐	1.000		5410286.86		A	0.3
9	☐	1.000		5067111.97		A	1.8

45 Sc (ISTD) [He]

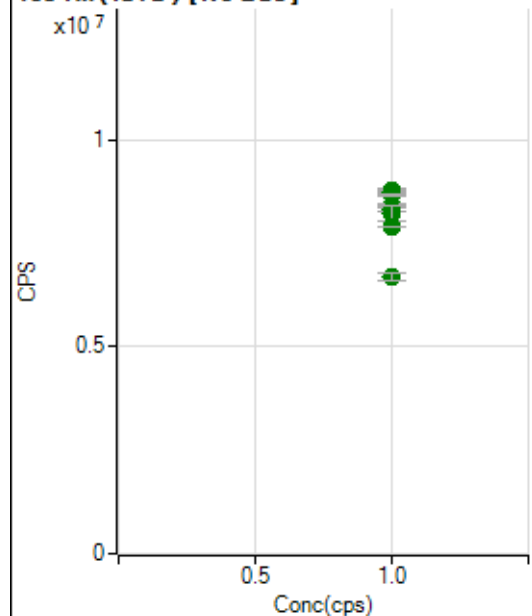
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		417638.20		P	0.3
2	☐	1.000		419498.48		P	0.5
3	☐	1.000		416756.54		P	0.7
4	☐	1.000		409620.39		P	0.4
5	☐	1.000		399150.56		P	0.0
6	☐	1.000		388190.18		P	0.7
7	☐	1.000		384980.96		P	1.0
8	☐	1.000		376954.81		P	3.5
9	☐	1.000		354550.22		P	7.0

89 Y (ISTD) [No Gas]

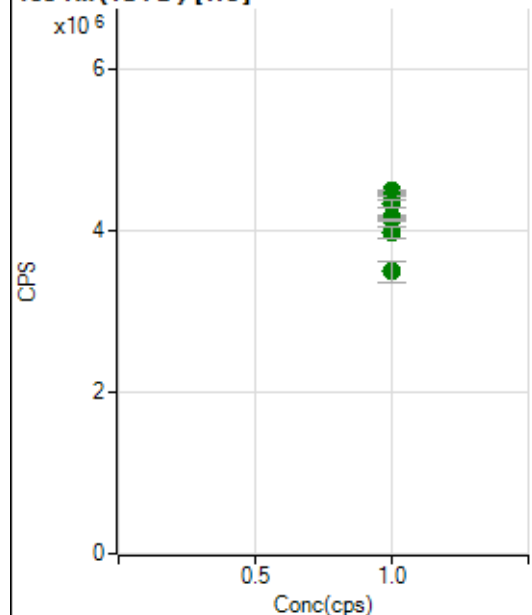
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		14852529.22		A	0.9
2	☐	1.000		14767421.86		A	0.7
3	☐	1.000		15021993.94		A	2.3
4	☐	1.000		14956394.64		A	0.9
5	☐	1.000		14506953.95		A	1.0
6	☐	1.000		14727346.31		A	1.1
7	☐	1.000		14754499.92		A	3.9
8	☐	1.000		14597968.12		A	0.3
9	☐	1.000		13076904.53		A	1.4

89 Y (ISTD) [He]

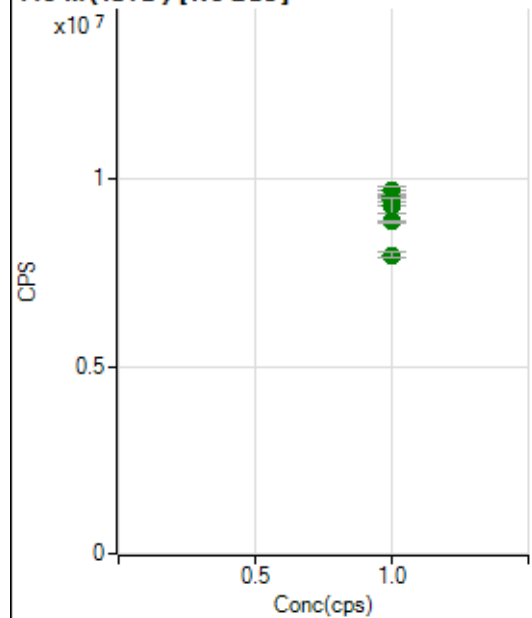
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3068264.61		A	0.8
2	☐	1.000		3117942.21		A	0.6
3	☐	1.000		3084430.72		A	1.6
4	☐	1.000		3059673.43		A	0.1
5	☐	1.000		3030482.00		A	1.1
6	☐	1.000		2954933.04		A	0.7
7	☐	1.000		2971408.98		A	1.5
8	☐	1.000		2889203.40		A	3.9
9	☐	1.000		2728340.70		A	6.7

103 Rh (ISTD) [No Gas]

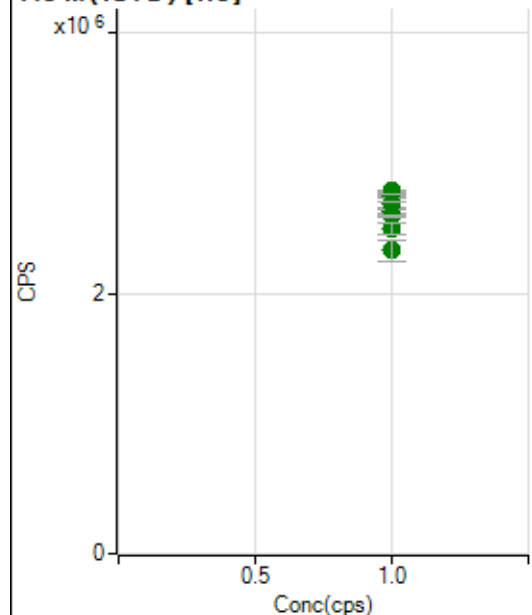
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		8672347.16		A	0.9
2	☐	1.000		8760908.41		A	1.2
3	☐	1.000		8728099.24		A	1.6
4	☐	1.000		8670189.11		A	0.5
5	☐	1.000		8385544.95		A	1.1
6	☐	1.000		8312575.22		A	1.7
7	☐	1.000		8209463.28		A	4.2
8	☐	1.000		7885904.19		A	0.1
9	☐	1.000		6694639.76		A	2.4

103 Rh (ISTD) [He]

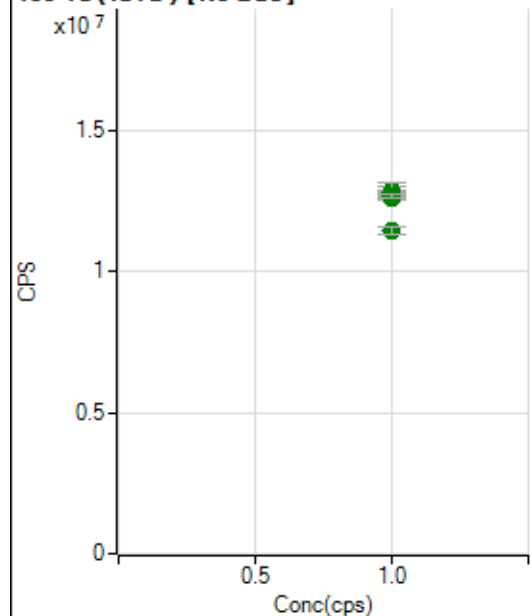
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4448581.53		A	0.1
2	☐	1.000		4497461.81		A	0.6
3	☐	1.000		4490391.22		A	0.6
4	☐	1.000		4440037.02		A	0.3
5	☐	1.000		4340475.04		A	1.8
6	☐	1.000		4180604.97		A	0.9
7	☐	1.000		4144994.52		A	0.5
8	☐	1.000		3980925.32		A	3.7
9	☐	1.000		3493139.29		A	7.1

115 In (ISTD) [No Gas]

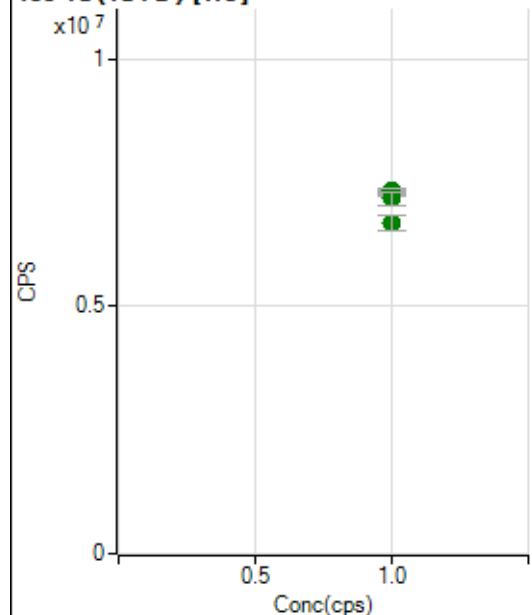
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		9568699.91		A	0.6
2	☐	1.000		9630048.41		A	1.1
3	☐	1.000		9691106.31		A	2.1
4	☐	1.000		9569130.74		A	1.0
5	☐	1.000		9445801.40		A	0.8
6	☐	1.000		9300092.19		A	0.5
7	☐	1.000		9309927.29		A	4.4
8	☐	1.000		8881317.02		A	0.6
9	☐	1.000		7978120.02		A	2.0

115 In (ISTD) [He]

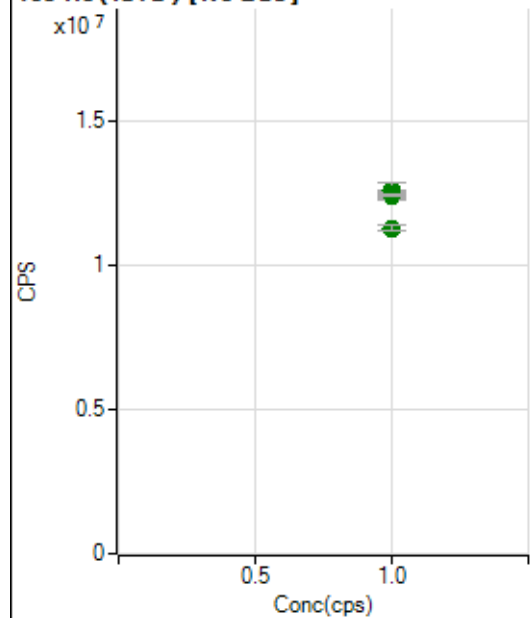
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2768116.22		A	1.1
2	☐	1.000		2784940.92		A	0.6
3	☐	1.000		2753770.95		A	1.0
4	☐	1.000		2744521.43		A	1.3
5	☐	1.000		2683283.61		A	1.7
6	☐	1.000		2627527.82		A	1.6
7	☐	1.000		2591822.08		A	0.9
8	☐	1.000		2499448.71		A	3.6
9	☐	1.000		2330649.05		A	7.1

159 Tb (ISTD) [No Gas]

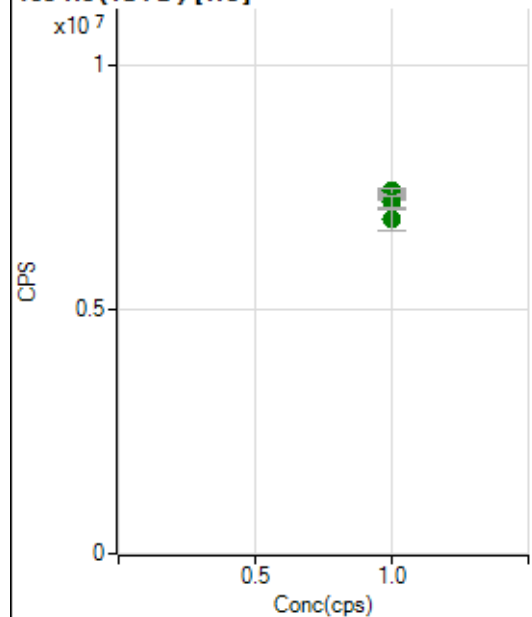
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		12729729.12		A	0.6
2	☐	1.000		12828452.31		A	0.6
3	☐	1.000		12873886.48		A	2.1
4	☐	1.000		12860198.14		A	0.4
5	☐	1.000		12652562.31		A	1.0
6	☐	1.000		12755528.84		A	1.7
7	☐	1.000		12859177.72		A	4.4
8	☐	1.000		12689865.92		A	0.6
9	☐	1.000		11449075.52		A	2.6

159 Tb (ISTD) [He]

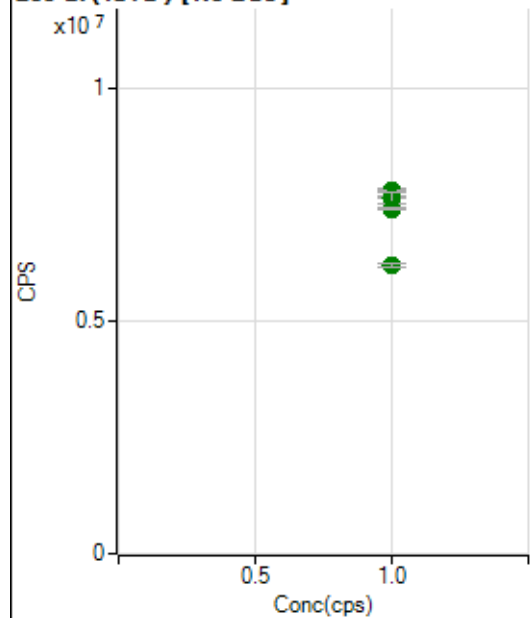
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7314217.19		A	0.8
2	☐	1.000		7301123.29		A	1.5
3	☐	1.000		7306011.63		A	0.7
4	☐	1.000		7285194.13		A	0.7
5	☐	1.000		7279379.61		A	1.2
6	☐	1.000		7272638.64		A	1.2
7	☐	1.000		7338376.83		A	1.5
8	☐	1.000		7194720.38		A	3.8
9	☐	1.000		6695765.53		A	5.0

165 Ho (ISTD) [No Gas]

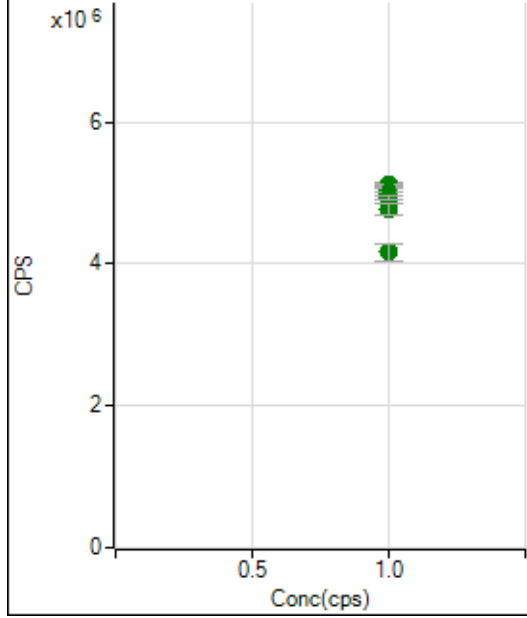
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		12479859.81		A	0.4
2	☐	1.000		12558259.40		A	0.5
3	☐	1.000		12473257.73		A	2.0
4	☐	1.000		12525159.67		A	0.1
5	☐	1.000		12360512.45		A	0.2
6	☐	1.000		12428764.54		A	1.0
7	☐	1.000		12568763.15		A	4.7
8	☐	1.000		12425485.65		A	0.8
9	☐	1.000		11276806.36		A	1.9

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7259311.00		A	0.6
2	☐	1.000		7295835.79		A	0.7
3	☐	1.000		7341186.56		A	0.5
4	☐	1.000		7418620.59		A	0.9
5	☐	1.000		7293675.31		A	1.0
6	☐	1.000		7347998.43		A	0.8
7	☐	1.000		7415049.40		A	1.7
8	☐	1.000		7207078.43		A	3.2
9	☐	1.000		6834886.01		A	6.5

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7698670.86		A	0.3
2	☐	1.000		7766941.13		A	0.4
3	☐	1.000		7769057.04		A	2.3
4	☐	1.000		7799907.31		A	0.7
5	☐	1.000		7650796.35		A	0.5
6	☐	1.000		7661368.78		A	0.8
7	☐	1.000		7642332.80		A	3.6
8	☐	1.000		7408683.29		A	0.6
9	☐	1.000		6204861.78		A	1.5

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5045189.47		A	0.7
2	☐	1.000		5108783.99		A	1.2
3	☐	1.000		5087576.56		A	0.7
4	☐	1.000		5114535.10		A	0.2
5	☐	1.000		5017738.40		A	1.8
6	☐	1.000		4990155.58		A	1.1
7	☐	1.000		4926658.19		A	0.9
8	☐	1.000		4760911.42		A	3.4
9	☐	1.000		4170599.90		A	6.0

US EPA Tune Check Report

Operator Name Jaswal
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\IP7101323 MS.b
Acq. Date-Time 2023-10-13 14:19:39
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		10442	104415.20			0.754	5.000
24		85796	857957.32			0.642	5.000
25		11384	113844.46			0.377	5.000
26		13182	131823.42			0.422	5.000
59		97937	979370.14			1.093	5.000
113		13515	135150.89			0.391	5.000
115		165995	1659954.23			0.333	5.000
206		38477	384771.04			0.292	5.000
207		35328	353280.63			0.151	5.000
208		82917	829173.77			0.323	5.000
220		0	2.00			46.771	

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

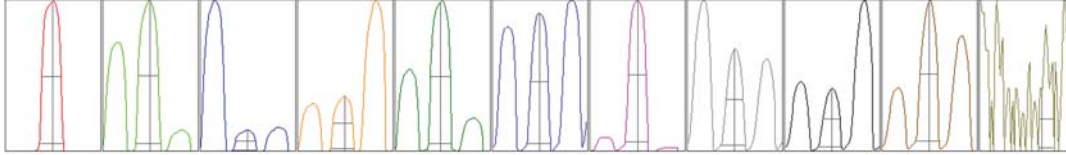
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	10534	10516	10418	10368	10372
24	85338	85082	86197	86313	86050
25	11326	11365	11395	11393	11443
26	13145	13153	13138	13269	13208
59	99293	98559	98054	97165	96613
113	13543	13566	13515	13525	13427
115	166109	165071	166465	165976	166356
206	38406	38577	38369	38618	38415
207	35367	35328	35282	35394	35270
208	82731	83273	82989	83011	82582

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	18074.35	9.00	8.90 - 9.10	
24	142559.71	24.00	23.90 - 24.10	
25	19353.46	25.00	24.90 - 25.10	
26	22288.96	26.00	25.90 - 26.10	
59	163244.09	58.95	58.90 - 59.10	
113	25293.09	113.00	112.90 - 113.10	
115	306743.61	115.05	114.90 - 115.10	
206	72998.38	206.00	205.90 - 206.10	
207	66093.94	207.00	206.90 - 207.10	
208	157595.16	208.00	207.90 - 208.10	
220	0.25	220.50	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.59	0.762	0.900	
24	0.63	0.785	0.900	
25	0.62	0.741	0.900	
26	0.63	0.741	0.900	
59	0.62	0.739	0.900	
113	0.54	0.741	0.900	
115	0.55	0.730	0.900	
206	0.53	0.778	0.900	
207	0.53	0.740	0.900	
208	0.54	0.738	0.900	
220	0.46	0.496		

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	8.5 V	Deflect	14.4 V
Extract 2	-115.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-55 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	133	Axis Gain	0.9973	QP Bias	-3.0 V
Mass Offset	130	Axis Offset	0.14		

Hardware Settings

Torch

Torch H	-1.0 mm	Torch V	0.9 mm
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EM

Discriminator	4.6 mV	Analog HV	2313 V	Pulse HV	1369 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		28528	285279.09			0.710	
89		36043	360431.08			0.857	
205		35407	354073.63			0.672	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	28702	28345	28754	28533	28306
89	36429	35740	36132	36201	35714
205	35746	35164	35556	35304	35267

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	8.9 V	Deflect	2.6 V
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US EPA Tune Check Report

Extract 2	-120.0 V	Cell Entrance	-40 V	Plate Bias	-60 V
Omega Bias	-60 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	160 V		

QP Parameters

Mass Gain	133	Axis Gain	0.9973	QP Bias	-13.0 V
Mass Offset	130	Axis Offset	0.14		

Hardware Settings

Torch

Torch H	-1.0 mm	Torch V	0.9 mm
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EM

Discriminator	4.6 mV	Analog HV	2313 V	Pulse HV	1369 V
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