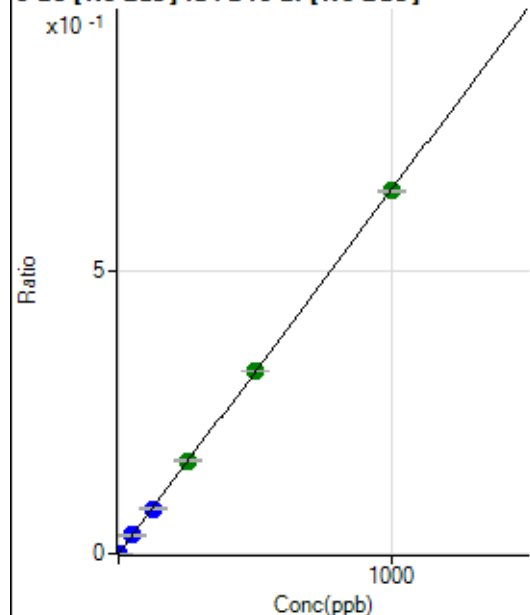


Batch Folder: D:\Agilent\ICPMH\1\DATA\P801225MS.b\
Analysis File: P801225MS.batch.bin
DA Date-Time: 2025-01-22 18:19:30
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.d	S00	2025-01-22 13:43:26
2	006CALS.d	S02	2025-01-22 13:50:11
3	007CALB.d	S03	2025-01-22 13:53:33
4	008CALS.d	S04	2025-01-22 13:56:44
5	009CALS.d	S05	2025-01-22 13:59:45
6	010CALS.d	S06	2025-01-22 14:02:40
7	011CALS.d	S07	2025-01-22 14:05:26
8	012CALS.d	S08	2025-01-22 14:08:14

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	196.65	0.0000	P	3.6
2	☐	1.000	0.967	5111.51	0.0006	P	1.4
3	☐	50.000	50.244	254095.19	0.0325	P	2.5
4	☐	125.000	123.226	626679.71	0.0796	P	2.9
5	☐	250.000	255.963	1280302.00	0.1653	A	0.7
6	☐	500.000	503.471	2532193.32	0.3250	A	0.3
7	☐	1000.000	996.983	4921499.45	0.6436	A	0.4
8	☐			1144.49	0.0002	P	10.4

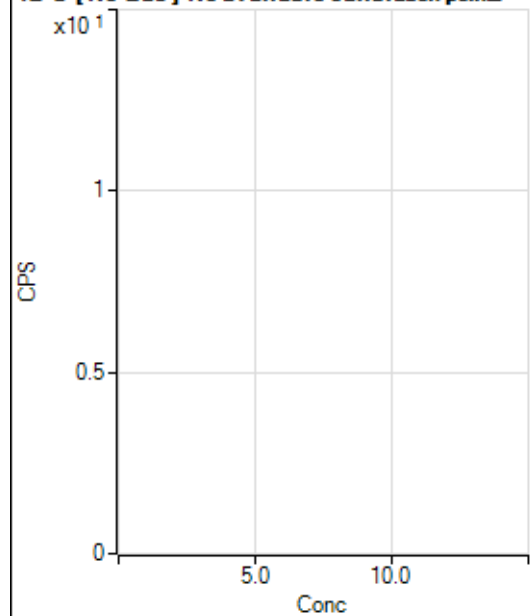
$$y = 6.4551\text{E-}004 * x + 2.5157\text{E-}005$$

$$R = 1.0000$$

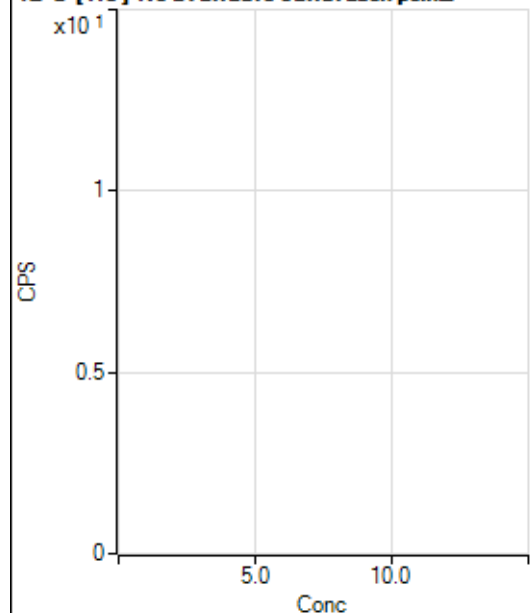
$$DL = 0.004202$$

Weight: <None>

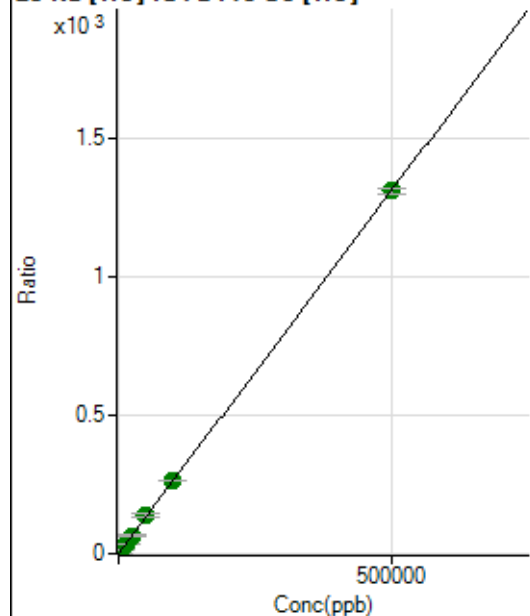
Min Conc: 0

12 C [No Gas] No available calibration points

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			2599462.77		A	1.0
2	☐			2704431.76		A	0.8
3	☐			2930880.30		A	0.4
4	☐			3120379.02		A	1.6
5	☐			3420837.45		A	3.3
6	☐			3338628.70		A	2.2
7	☐			3872446.05		A	3.6
8	☐			2969509.68		A	0.4

12 C [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			16780.78		P	1.4
2	☐			17145.66		P	2.4
3	☐			19566.45		P	2.8
4	☐			20746.91		P	1.4
5	☐			23506.62		P	2.9
6	☐			23238.42		P	0.5
7	☐			27965.50		P	0.6
8	☐			24946.75		P	1.5

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	22953.68	0.1504	P	0.9
2	☐	500.000	480.791	211036.69	1.4085	P	0.7
3	☐	5000.000	5177.620	2035108.32	13.6988	A	1.3
4	☐	12500.000	12642.687	5069168.43	33.2329	A	1.6
5	☐	25000.000	25053.481	10145237.00	65.7087	A	2.4
6	☐	50000.000	52852.389	20441131.09	138.4511	A	8.0
7	☐	100000.00	100072.83	40537374.12	262.0145	A	1.1
8	☐	500000.00	499692.19	173573032.9	1,307.712	A	1.3

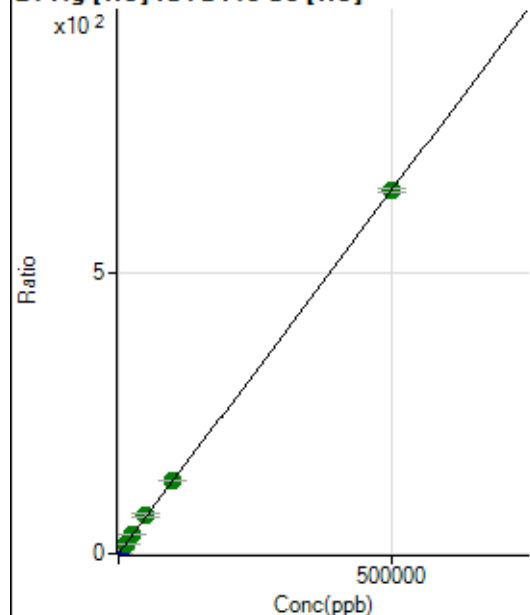
$$y = 0.0026 * x + 0.1504$$

$$R = 1.0000$$

$$DL = 1.516$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	910.03	0.0060	P	5.9
2	☐	500.000	502.380	98390.15	0.6567	P	0.4
3	☐	5000.000	5174.390	996582.19	6.7080	P	0.7
4	☐	12500.000	13167.260	2602360.55	17.0605	A	1.5
5	☐	25000.000	25856.734	5172082.73	33.4962	A	1.9
6	☐	50000.000	53583.283	10242583.81	69.4083	A	8.9
7	☐	100000.00	100860.02	20212199.84	130.6422	A	1.0
8	☐	500000.00	499408.40	85857372.61	646.8515	A	1.0

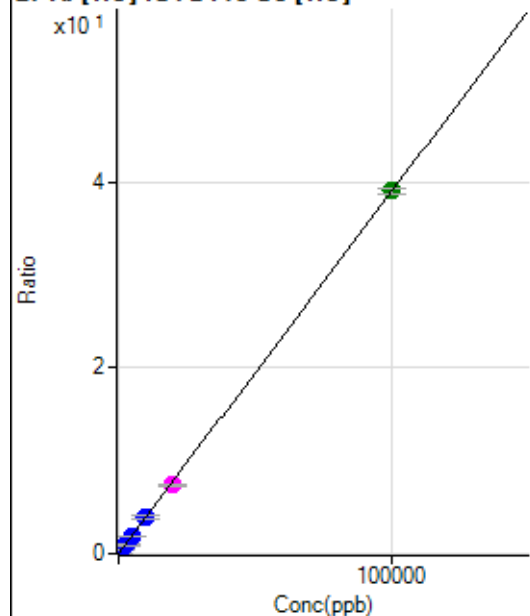
$$y = 0.0013 * x + 0.0060$$

$$R = 1.0000$$

$$DL = 0.8095$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	77.78	0.0005	P	30.4
2	☐	20.000	18.088	1131.16	0.0076	P	3.2
3	☐	1000.000	967.559	56029.49	0.3771	P	1.1
4	☐	2500.000	2398.494	142489.43	0.9341	P	1.5
5	☐	5000.000	4761.662	286257.08	1.8540	P	2.4
6	☐	10000.000	10018.727	575650.99	3.9004	P	8.7
7	☐	20000.000	19053.719	1147549.75	7.4173	M	2.9
8	☐	100000.00	100202.16	5177118.78	39.0051	A	1.3

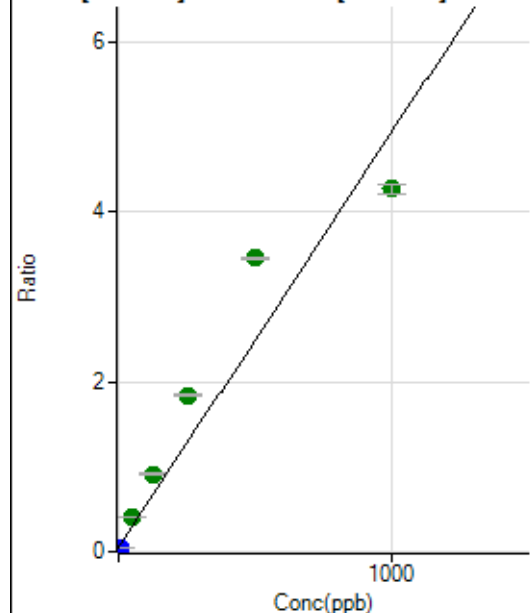
$$y = 3.8926E-004 * x + 5.0957E-004$$

$$R = 1.0000$$

$$DL = 1.194$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	419518.71	0.0489	P	1.2
2	☐	10.000	1.507	482629.81	0.0563	P	1.0
3	☐	50.000	74.278	3418710.57	0.4116	A	3.2
4	☐	125.000	176.197	7835671.69	0.9093	A	3.1
5	☐	250.000	366.616	15494775.05	1.8390	A	1.8
6	☐	500.000	698.022	30073667.05	3.4572	A	0.4
7	☐	1000.000	864.307	36664571.12	4.2691	A	2.6
8	☐			535375.46	0.0710	P	1.1

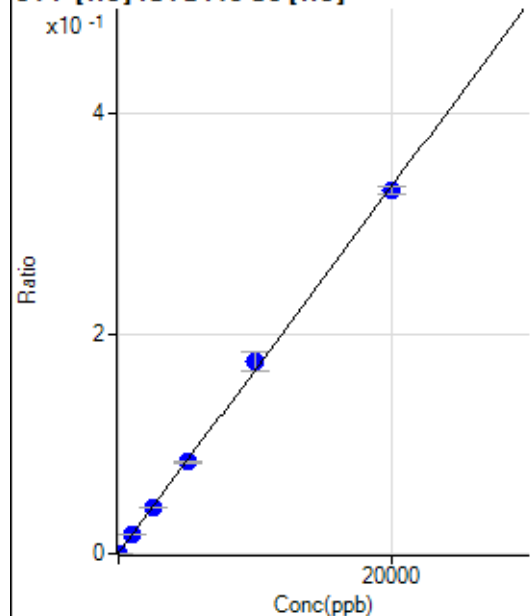
$$y = 0.0049 * x + 0.0489$$

$$R = 0.9577$$

$$DL = 0.3532$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	-13.517	44.44	0.0003	P	18.8
2	☐	0.000	13.517	111.11	0.0007	P	16.8
3	☐	1000.000	996.819	2543.58	0.0171	P	4.6
4	☐	2500.000	2504.123	6440.38	0.0422	P	1.7
5	☐	5000.000	4961.394	12835.76	0.0831	P	2.3
6	☐	10000.000	10491.581	25849.68	0.1752	P	9.6
7	☐	20000.000	19763.505	50997.08	0.3296	P	2.0
8	☐			61.11	0.0005	P	19.0

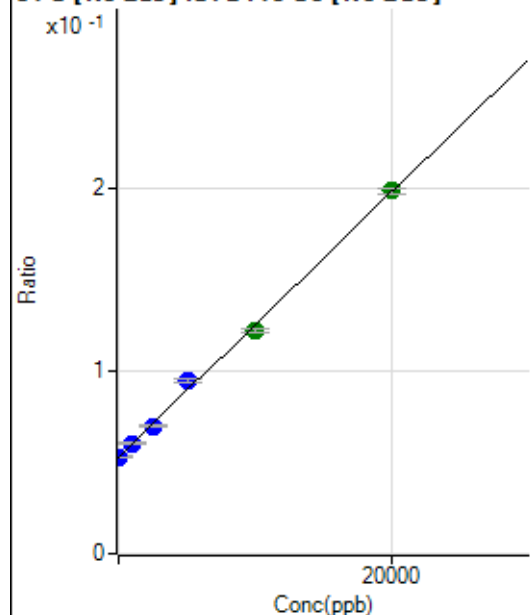
$$y = 1.6652E-005 * x + 5.1621E-004$$

$$R = 0.9995$$

$$DL = 16.15$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	21.379	456565.30	0.0532	P	1.7
2	☐	0.000	-21.379	453923.17	0.0529	P	1.0
3	☐	1000.000	1034.854	503601.79	0.0606	P	2.0
4	☐	2500.000	2331.957	603753.77	0.0701	P	2.3
5	☐	5000.000	5695.231	796231.31	0.0945	P	2.3
6	☐	10000.000	9551.371	1066048.12	0.1226	A	1.5
7	☐	20000.000	20069.769	1709759.77	0.1990	A	1.8
8	☐			370173.23	0.0491	P	1.8

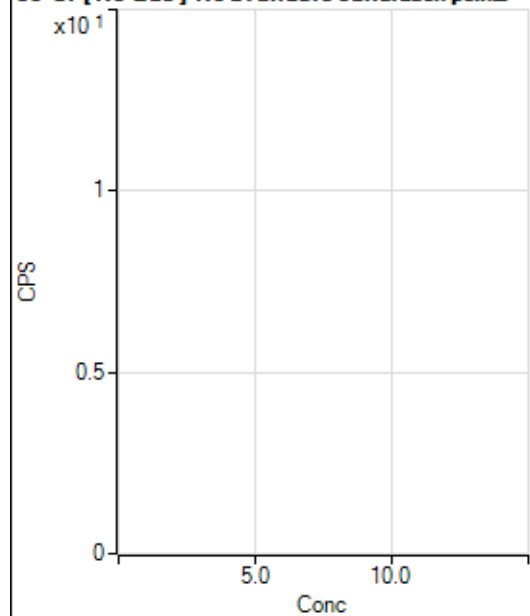
$$y = 7.2723E-006 * x + 0.0531$$

R = 0.9989

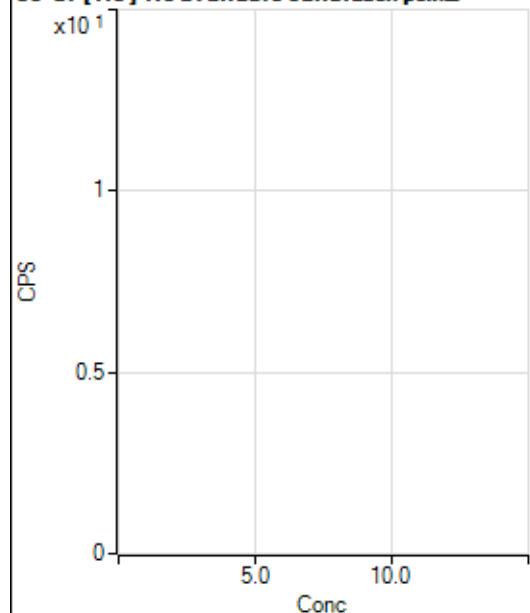
DL = 295.5

Weight: <None>

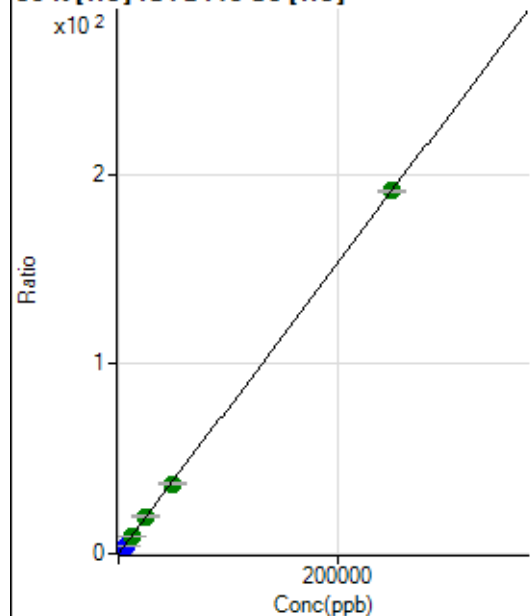
Min Conc: 0

35 Cl [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			106062.44		P	0.5
2	☐			102992.60		P	0.2
3	☐			98842.03		P	0.1
4	☐			99398.15		P	1.3
5	☐			101849.39		P	0.8
6	☐			112175.76		P	1.1
7	☐			129880.80		P	1.7
8	☐			89289.65		P	1.4

35 Cl [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			395.57		P	16.4
2	☐			380.01		P	8.5
3	☐			398.90		P	8.6
4	☐			382.23		P	11.0
5	☐			385.56		P	4.4
6	☐			445.57		P	7.0
7	☐			524.46		P	7.3
8	☐			366.67		P	15.1

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	5964.62	0.0391	P	2.7
2	☐	500.000	455.692	57994.66	0.3871	P	0.9
3	☐	2500.000	2376.165	275392.55	1.8536	P	0.6
4	☐	6250.000	5842.710	686558.34	4.5009	P	0.9
5	☐	12500.000	12198.626	1443988.29	9.3546	A	3.9
6	☐	25000.000	25645.452	2896286.87	19.6233	A	8.7
7	☐	50000.000	48219.336	5703022.62	36.8618	A	1.2
8	☐	250000.00	250318.16	25378065.46	191.1949	A	0.5

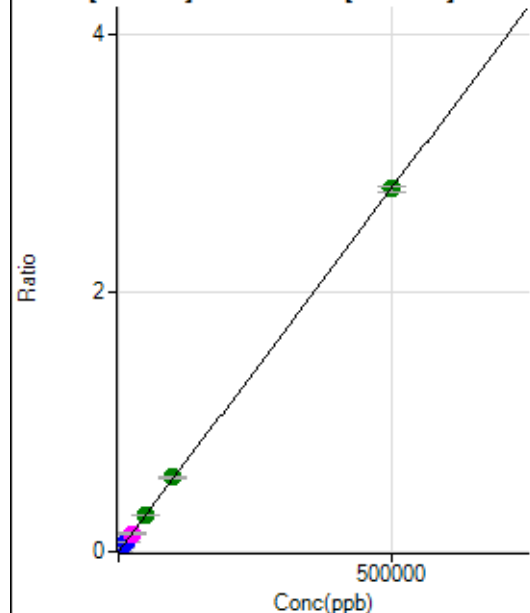
$$y = 7.6365E-004 * x + 0.0391$$

$$R = 1.0000$$

$$DL = 4.081$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	445.57	0.0001	P	10.4
2	☐	500.000	481.806	23614.98	0.0028	P	1.6
3	☐	5000.000	5036.961	235042.96	0.0283	P	3.7
4	☐	12500.000	12149.511	587605.45	0.0682	P	3.5
5	☐	25000.000	25136.617	1187949.85	0.1410	M	4.4
6	☐	50000.000	50550.919	2466660.26	0.2836	A	0.1
7	☐	100000.00	101973.88	4912931.46	0.5720	A	1.8
8	☐	500000.00	499551.71	21124938.85	2.8017	A	1.4

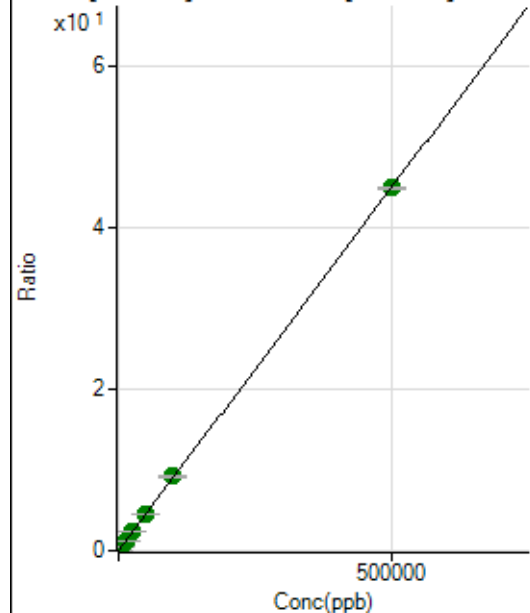
$$y = 5.6084\text{E-}006 * x + 5.1953\text{E-}005$$

$$R = 1.0000$$

$$DL = 2.882$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	9702.26	0.0011	P	1.8
2	☐	500.000	475.683	376518.54	0.0439	P	1.1
3	☐	5000.000	5149.071	3854558.48	0.4642	A	4.6
4	☐	12500.000	12370.798	9598345.83	1.1136	A	2.2
5	☐	25000.000	25597.084	19404712.63	2.3031	A	1.9
6	☐	50000.000	49732.181	38914417.20	4.4736	A	1.1
7	☐	100000.00	102069.68	78841179.38	9.1803	A	3.0
8	☐	500000.00	499584.75	338809983.8	44.9289	A	0.6

$$y = 8.9930\text{E-}005 * x + 0.0011$$

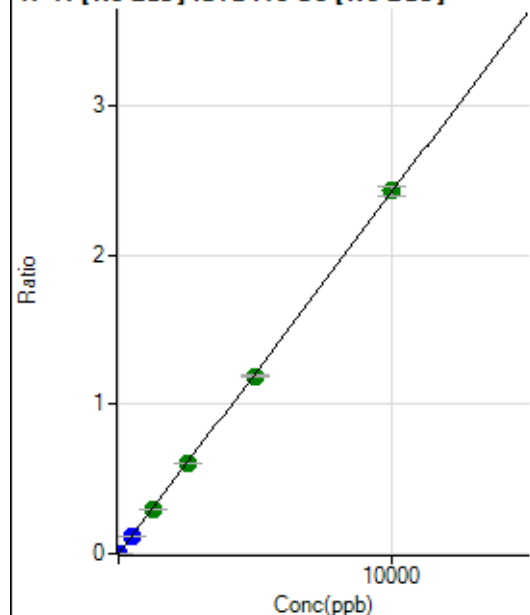
$$R = 1.0000$$

$$DL = 0.6949$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	212.22	0.0000	P	7.3
2	☐	5.000	4.714	9990.22	0.0012	P	1.5
3	☐	500.000	491.938	988651.78	0.1190	P	2.7
4	☐	1250.000	1230.469	2565610.60	0.2977	A	2.1
5	☐	2500.000	2498.989	5093566.56	0.6045	A	1.9
6	☐	5000.000	4918.508	10349734.29	1.1898	A	0.3
7	☐	10000.000	10043.843	20867867.47	2.4295	A	2.5
8	☐			6623.81	0.0009	P	2.8

$$y = 2.4189\text{E-}004 * x + 2.4741\text{E-}005$$

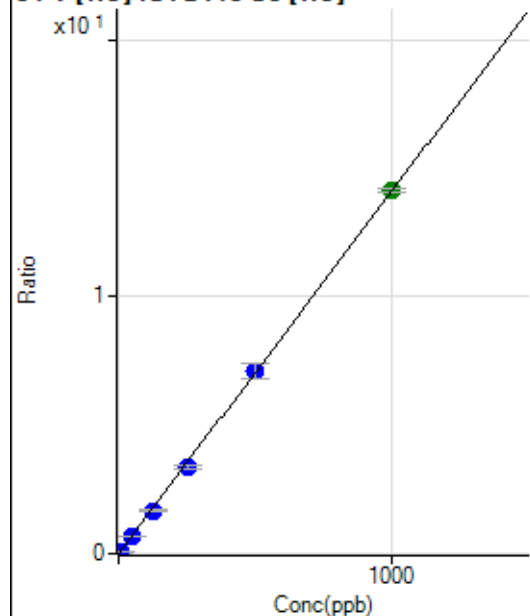
$$R = 1.0000$$

$$DL = 0.02249$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	7.78	0.0001	P	24.5
2	☐	5.000	4.715	9967.99	0.0665	P	1.1
3	☐	50.000	48.433	101455.91	0.6829	P	0.4
4	☐	125.000	118.944	255804.27	1.6770	P	1.3
5	☐	250.000	239.351	520946.86	3.3746	P	3.3
6	☐	500.000	503.125	1046954.63	7.0934	P	8.6
7	☐	1000.000	1001.936	2185470.82	14.1259	A	1.1
8	☐			490.01	0.0037	P	7.7

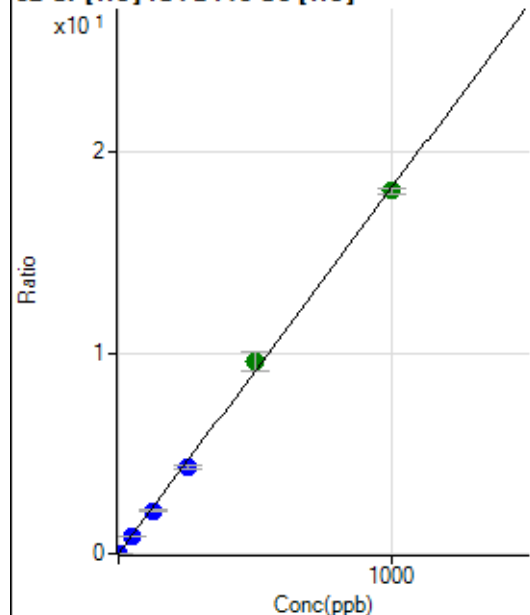
$$y = 0.0141 * x + 5.0954\text{E-}005$$

$$R = 0.9999$$

$$DL = 0.002659$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	663.36	0.0043	P	4.3
2	☐	2.000	1.886	5802.34	0.0387	P	1.6
3	☐	50.000	48.487	131963.71	0.8883	P	1.2
4	☐	125.000	117.876	328455.14	2.1532	P	0.4
5	☐	250.000	236.245	665602.27	4.3110	P	2.5
6	☐	500.000	524.588	1411497.79	9.5675	A	9.5
7	☐	1000.000	992.111	2798848.53	18.0903	A	1.6
8	☐			4302.28	0.0324	P	21.7

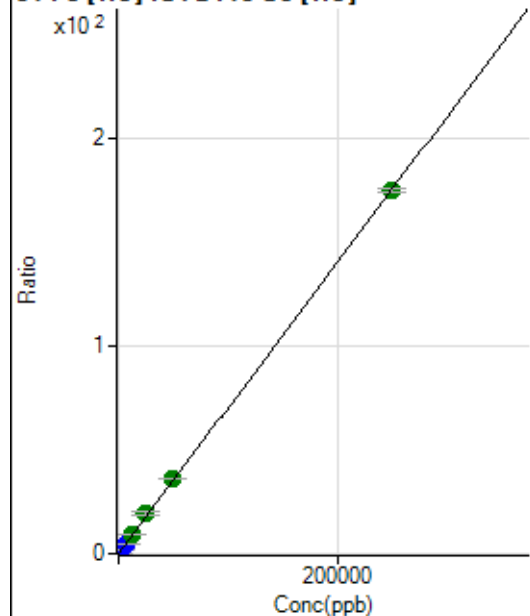
$$y = 0.0182 * x + 0.0043$$

$$R = 0.9994$$

$$DL = 0.03084$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	380.01	0.0025	P	8.4
2	☐	50.000	53.399	5975.75	0.0399	P	1.2
3	☐	2500.000	2624.562	273395.43	1.8402	P	0.7
4	☐	6250.000	6348.661	678479.93	4.4478	P	0.6
5	☐	12500.000	13166.361	1423876.89	9.2216	A	2.0
6	☐	25000.000	27595.188	2850491.83	19.3247	A	9.8
7	☐	50000.000	51120.594	5538303.39	35.7973	A	0.7
8	☐	250000.00	249479.33	23186700.49	174.6885	A	1.0

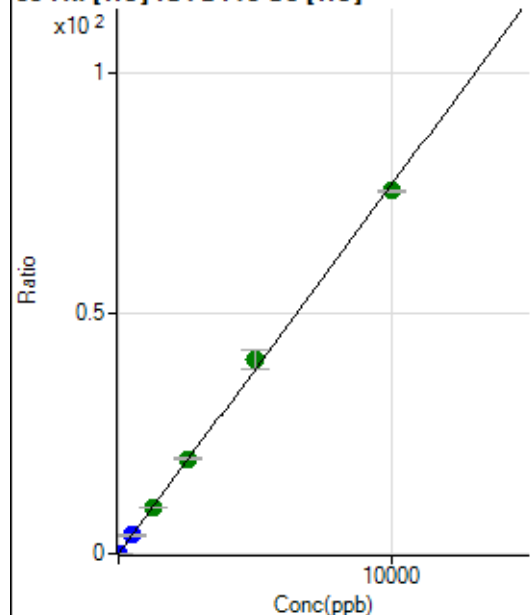
$$y = 7.0020E-004 * x + 0.0025$$

$$R = 0.9999$$

$$DL = 0.899$$

Weight: <None>

Min Conc: 0

⁵⁵Mn [He] ISTD:45 Sc [He]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	131.12	0.0009	P	3.1
2	☐	1.000	0.944	1213.40	0.0081	P	3.1
3	☐	500.000	495.564	564775.28	3.8014	P	0.6
4	☐	1250.000	1268.147	1483685.88	9.7265	A	0.8
5	☐	2500.000	2559.416	3030876.03	19.6296	A	2.1
6	☐	5000.000	5288.086	5982637.20	40.5563	A	9.7
7	☐	10000.000	9839.056	11674519.13	75.4586	A	0.6
8	☐			4369.60	0.0329	P	3.3

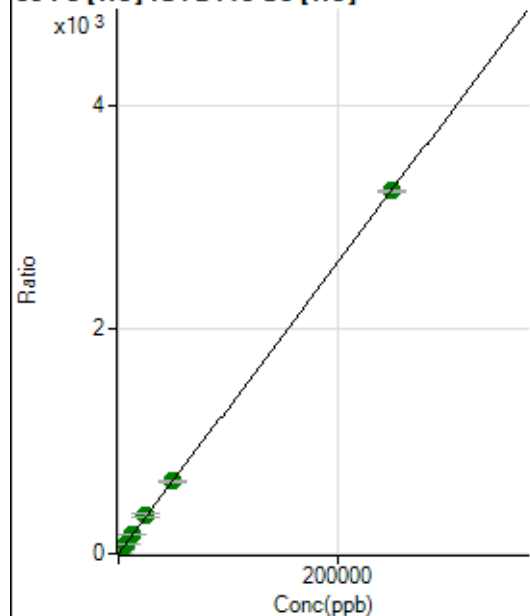
$$y = 0.0077 * x + 8.5901E-004$$

$$R = 0.9993$$

$$DL = 0.01046$$

Weight: <None>

Min Conc: 0

⁵⁶Fe [He] ISTD:45 Sc [He]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	4934.23	0.0323	P	3.5
2	☐	50.000	50.328	102571.87	0.6846	P	1.3
3	☐	2500.000	2625.442	5059938.95	34.0587	A	1.1
4	☐	6250.000	6366.378	12590558.15	82.5422	A	1.4
5	☐	12500.000	12840.583	25696178.51	166.4496	A	3.3
6	☐	25000.000	26613.788	50925125.91	344.9538	A	8.2
7	☐	50000.000	49853.354	99968230.73	646.1445	A	1.3
8	☐	250000.00	249846.75	429803158.0	3,238.110	A	0.4

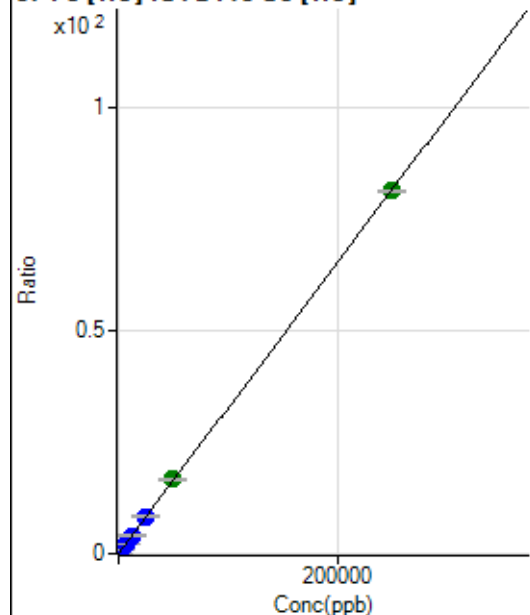
$$y = 0.0130 * x + 0.0323$$

$$R = 1.0000$$

$$DL = 0.2618$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	107.78	0.0007	P	4.9
2	☐	50.000	49.974	2544.70	0.0170	P	3.0
3	☐	2500.000	2565.727	124275.58	0.8365	P	1.4
4	☐	6250.000	6180.280	307209.94	2.0140	P	0.8
5	☐	12500.000	12421.749	624832.84	4.0472	P	2.7
6	☐	25000.000	25766.706	1239111.88	8.3943	P	8.4
7	☐	50000.000	51049.956	2572985.71	16.6305	A	1.1
8	☐	250000.00	249718.33	10797472.34	81.3478	A	0.5

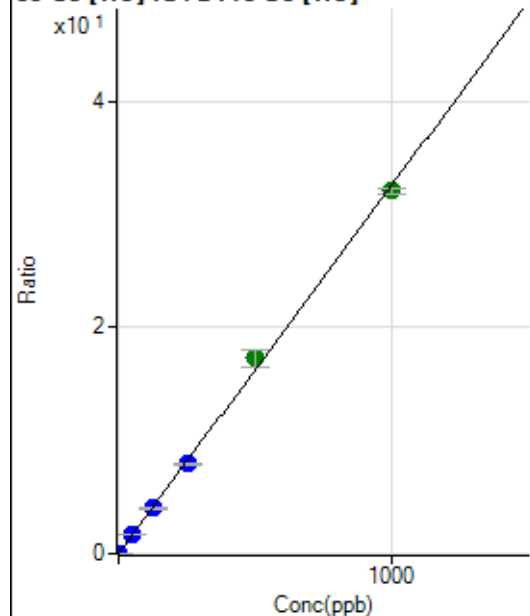
$$y = 3.2576\text{E-}004 * x + 7.0614\text{E-}004$$

$$R = 1.0000$$

$$DL = 0.3202$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	91.11	0.0006	P	20.3
2	☐	1.000	0.987	4904.23	0.0327	P	3.1
3	☐	50.000	50.758	245705.98	1.6539	P	1.3
4	☐	125.000	123.204	612242.00	4.0136	P	1.0
5	☐	250.000	244.664	1230504.47	7.9699	P	2.5
6	☐	500.000	531.282	2553447.18	17.3057	A	9.2
7	☐	1000.000	985.880	4968338.33	32.1131	A	1.5
8	☐			8839.48	0.0666	P	0.1

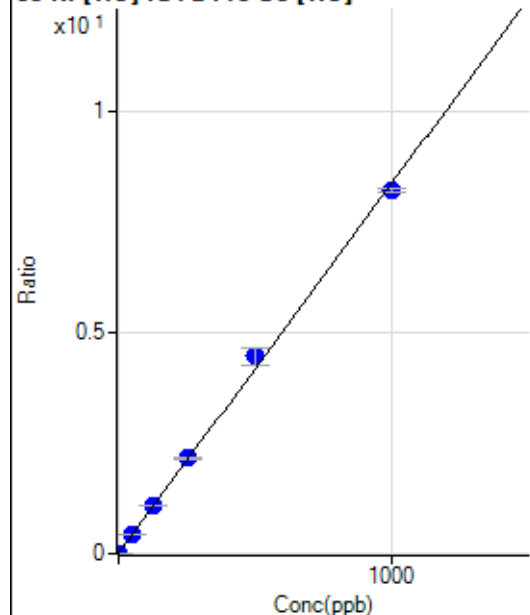
$$y = 0.0326 * x + 5.9702\text{E-}004$$

$$R = 0.9993$$

$$DL = 0.01118$$

Weight: <None>

Min Conc: 0

⁶⁰Ni [He] ISTD:45 Sc [He]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	1136.72	0.0074	P	6.1
2	☐	1.000	0.998	2368.00	0.0158	P	3.1
3	☐	50.000	53.370	67478.88	0.4542	P	0.4
4	☐	125.000	130.860	168222.60	1.1028	P	1.0
5	☐	250.000	258.070	334663.73	2.1676	P	2.6
6	☐	500.000	532.580	659117.71	4.4655	P	8.6
7	☐	1000.000	980.791	1271317.55	8.2172	P	0.9
8	☐			3257.08	0.0245	P	5.2

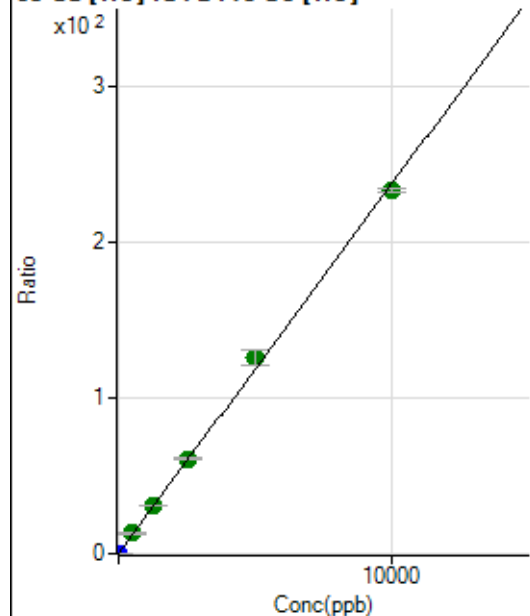
$$y = 0.0084 * x + 0.0074$$

$$R = 0.9992$$

$$DL = 0.1635$$

Weight: <None>

Min Conc: 0

⁶³Cu [He] ISTD:45 Sc [He]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	3085.92	0.0202	P	5.3
2	☐	2.000	2.014	10183.74	0.0680	P	1.3
3	☐	500.000	547.269	1930565.02	12.9944	A	0.6
4	☐	1250.000	1305.718	4724904.41	30.9750	A	0.9
5	☐	2500.000	2567.121	9398597.36	60.8793	A	3.1
6	☐	5000.000	5307.050	18574433.89	125.8351	A	8.5
7	☐	10000.000	9820.367	36022635.30	232.8329	A	1.0
8	☐			7448.69	0.0561	P	2.2

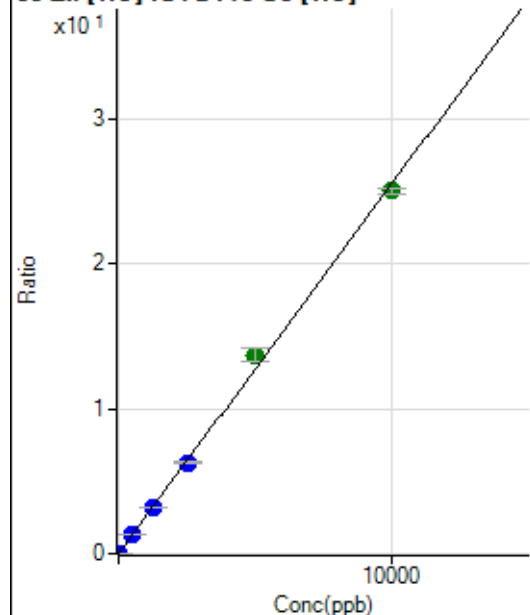
$$y = 0.0237 * x + 0.0202$$

$$R = 0.9993$$

$$DL = 0.1358$$

Weight: <None>

Min Conc: 0

⁶⁶Zn [He] ISTD: ⁴⁵Sc [He]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	267.78	0.0018	P	19.3
2	☐	2.000	4.888	2127.96	0.0142	P	3.4
3	☐	500.000	511.728	193893.56	1.3051	P	1.4
4	☐	1250.000	1243.919	483551.62	3.1701	P	1.1
5	☐	2500.000	2466.687	970292.80	6.2845	P	2.4
6	☐	5000.000	5378.616	2023528.23	13.7013	A	7.4
7	☐	10000.000	9819.193	3869640.08	25.0116	A	1.9
8	☐			1147.83	0.0086	P	5.7

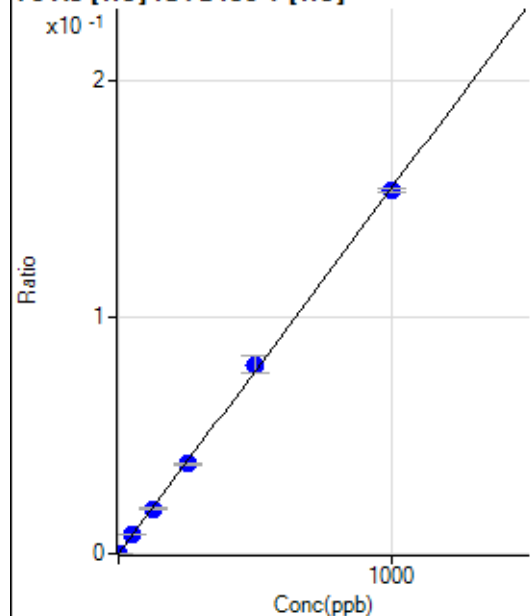
$$y = 0.0025 * x + 0.0018$$

$$R = 0.9989$$

$$DL = 0.3995$$

Weight: <None>

Min Conc: 0

⁷⁵As [He] ISTD: ⁸⁹Y [He]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	2.22	0.0000	P	86.6
2	☐	1.000	0.989	217.78	0.0002	P	3.7
3	☐	50.000	51.425	10983.25	0.0079	P	1.9
4	☐	125.000	123.165	27790.78	0.0190	P	1.4
5	☐	250.000	245.968	56721.42	0.0379	P	2.5
6	☐	500.000	516.859	113705.01	0.0797	P	8.9
7	☐	1000.000	992.736	224912.45	0.1531	P	0.9
8	☐			108.89	0.0001	P	6.2

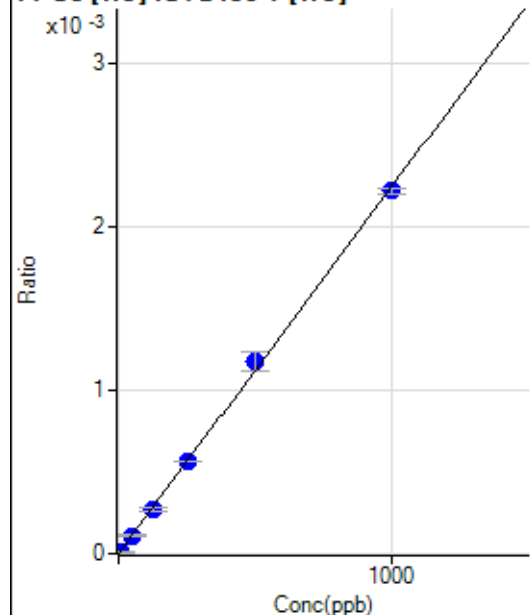
$$y = 1.5422E-004 * x + 1.5377E-006$$

$$R = 0.9998$$

$$DL = 0.02591$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	1.11	0.0000	P	173.2
2	☐	5.000	2.437	8.89	0.0000	P	56.5
3	☐	50.000	49.317	154.45	0.0001	P	6.0
4	☐	125.000	119.901	395.57	0.0003	P	12.4
5	☐	250.000	251.001	844.48	0.0006	P	0.9
6	☐	500.000	522.415	1674.56	0.0012	P	9.8
7	☐	1000.000	989.227	3265.97	0.0022	P	1.4
8	☐			1.11	0.0000	P	173.2

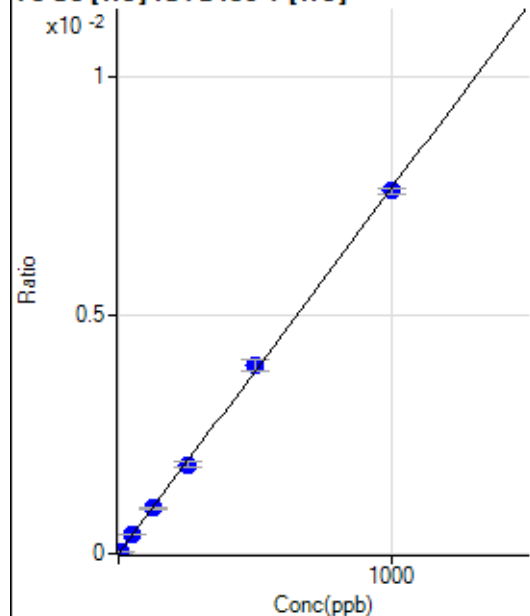
$$y = 2.2466\text{E-}006 * x + 7.6496\text{E-}007$$

$$R = 0.9996$$

$$DL = 1.769$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	2.22	0.0000	P	173.2
2	☐	5.000	4.758	53.33	0.0000	P	43.2
3	☐	50.000	52.377	557.80	0.0004	P	5.0
4	☐	125.000	123.968	1391.20	0.0010	P	5.8
5	☐	250.000	244.222	2801.42	0.0019	P	5.5
6	☐	500.000	517.407	5664.53	0.0040	P	6.0
7	☐	1000.000	992.752	11173.40	0.0076	P	1.7
8	☐			11.11	0.0000	P	17.4

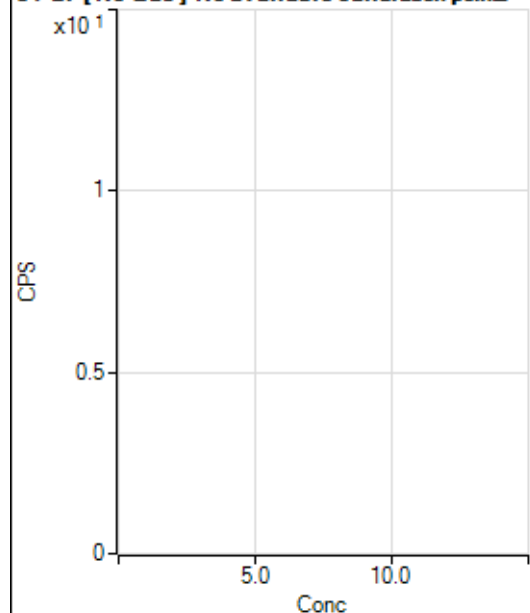
$$y = 7.6598\text{E-}006 * x + 1.4973\text{E-}006$$

$$R = 0.9998$$

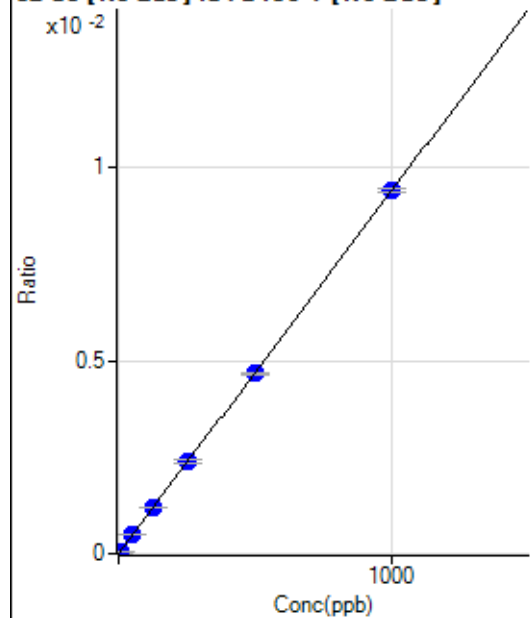
$$DL = 1.016$$

Weight: <None>

Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			6026.92		P	3.8
2	☐			5885.73		P	2.6
3	☐			5563.38		P	1.1
4	☐			5816.82		P	1.6
5	☐			5879.06		P	3.1
6	☐			6201.45		P	2.3
7	☐			6666.09		P	2.7
8	☐			6514.90		P	3.0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	-5.56	0.0000	P	-1396.
2	☐	5.000	4.814	936.72	0.0000	P	7.0
3	☐	50.000	52.374	9958.16	0.0005	P	2.7
4	☐	125.000	126.371	24800.08	0.0012	P	2.5
5	☐	250.000	254.380	49518.75	0.0024	P	3.0
6	☐	500.000	496.878	99174.21	0.0047	P	1.5
7	☐	1000.000	1000.177	196269.50	0.0094	P	1.0
8	☐			27.78	0.0000	P	246.4

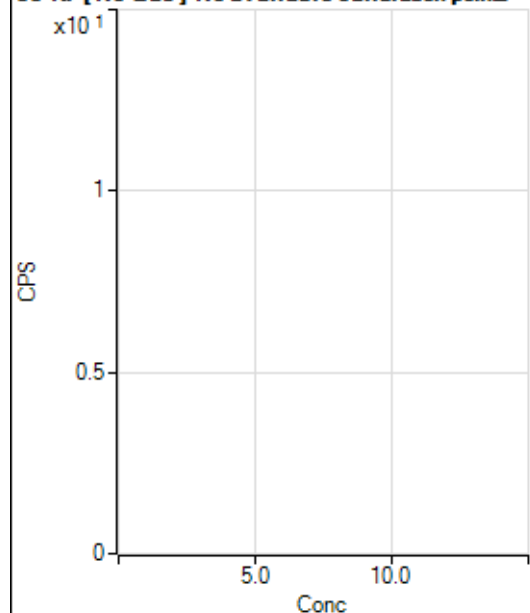
$$y = 9.3946E-006 * x - 2.7081E-007$$

$$R = 1.0000$$

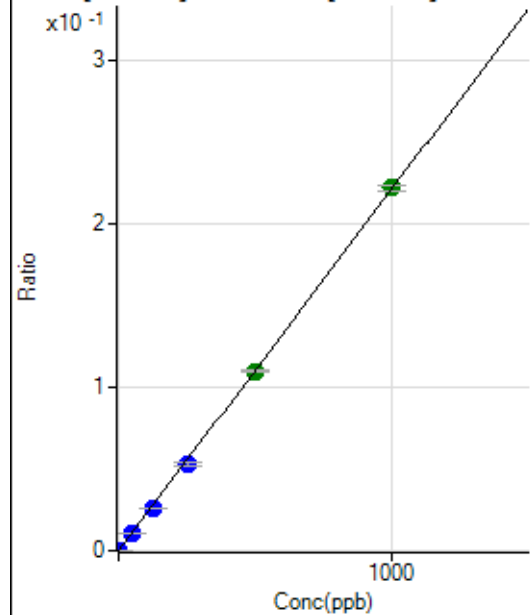
$$DL = 1.208$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			171.12		P	31.2
2	☐			182.22		P	2.1
3	☐			147.78		P	8.5
4	☐			166.67		P	2.0
5	☐			157.78		P	20.3
6	☐			176.67		P	3.8
7	☐			223.34		P	18.6
8	☐			286.67		P	8.1

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	275.56	0.0000	P	9.3
2	☐	1.000	0.932	4561.90	0.0002	P	2.9
3	☐	50.000	48.580	217468.79	0.0107	P	2.1
4	☐	125.000	118.306	546171.69	0.0261	P	2.1
5	☐	250.000	240.532	1100976.42	0.0531	P	3.3
6	☐	500.000	497.391	2334081.06	0.1099	A	1.7
7	☐	1000.000	1004.579	4634176.11	0.2219	A	1.5
8	☐			12453.41	0.0007	P	1.0

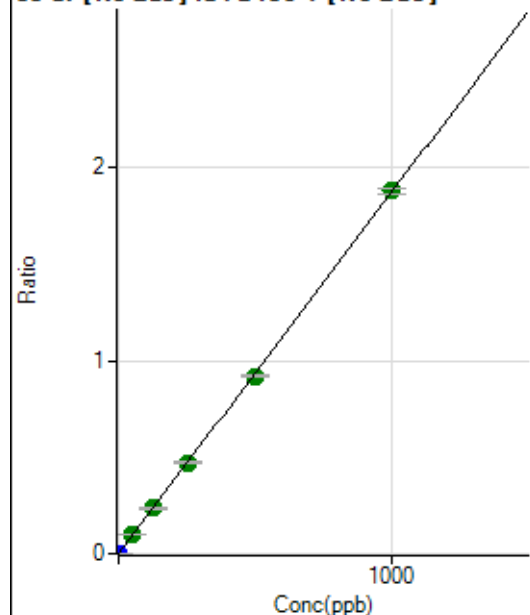
$$y = 2.2084E-004 * x + 1.3186E-005$$

$$R = 0.9999$$

$$DL = 0.01669$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	463.35	0.0000	P	4.7
2	☐	1.000	0.891	35247.66	0.0017	P	1.9
3	☐	50.000	51.195	1941733.03	0.0959	A	2.0
4	☐	125.000	125.393	4907861.97	0.2349	A	1.3
5	☐	250.000	251.310	9754252.21	0.4707	A	2.9
6	☐	500.000	491.368	19554478.87	0.9203	A	1.1
7	☐	1000.000	1003.880	39272421.91	1.8802	A	1.8
8	☐			103909.32	0.0056	P	0.6

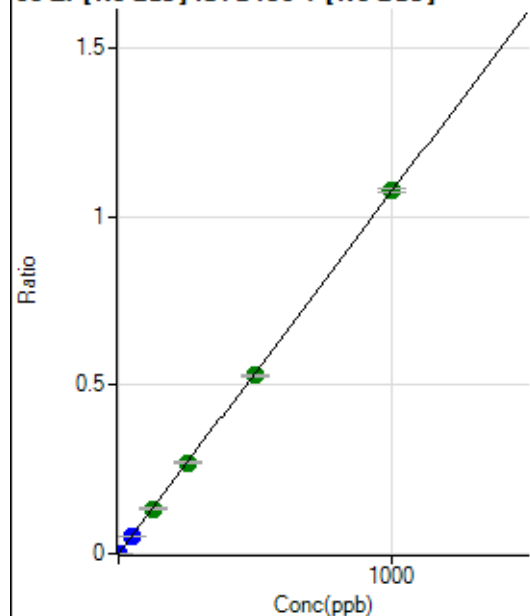
$$y = 0.0019 * x + 2.2171E-005$$

$$R = 0.9999$$

$$DL = 0.001667$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	668.91	0.0000	P	4.3
2	☐	1.000	0.916	21168.36	0.0010	P	1.0
3	☐	50.000	48.707	1059569.24	0.0523	P	2.3
4	☐	125.000	124.737	2799737.84	0.1340	A	2.0
5	☐	250.000	250.936	5585243.87	0.2695	A	2.6
6	☐	500.000	493.675	11265152.19	0.5302	A	0.9
7	☐	1000.000	1003.026	22500661.05	1.0772	A	1.1
8	☐			11048.91	0.0006	P	1.5

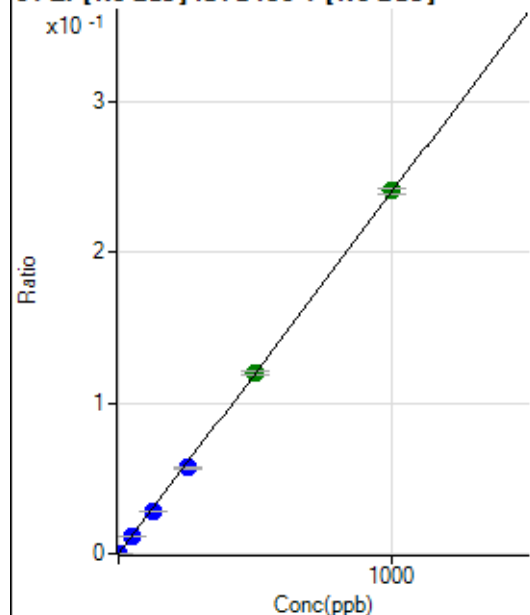
$$y = 0.0011 * x + 3.2006E-005$$

$$R = 1.0000$$

$$DL = 0.003874$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	153.34	0.0000	P	15.6
2	☐	1.000	0.909	4695.29	0.0002	P	2.0
3	☐	50.000	48.152	233895.86	0.0116	P	3.0
4	☐	125.000	117.377	588300.56	0.0282	P	1.9
5	☐	250.000	238.209	1183982.79	0.0571	P	2.6
6	☐	500.000	499.322	2544236.49	0.1197	A	1.7
7	☐	1000.000	1004.332	5030882.98	0.2409	A	1.4
8	☐			2462.47	0.0001	P	2.6

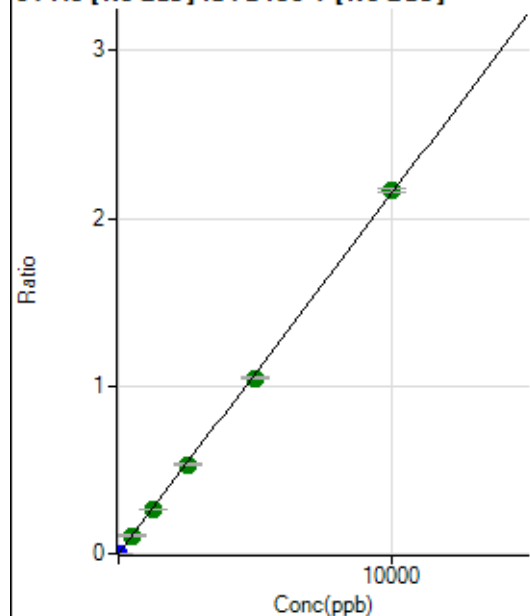
$$y = 2.3981E-004 * x + 7.3358E-006$$

$$R = 0.9999$$

$$DL = 0.01427$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	293.34	0.0000	P	18.9
2	☐	5.000	5.417	24545.08	0.0012	P	1.9
3	☐	500.000	506.883	2205071.72	0.1089	A	2.5
4	☐	1250.000	1219.904	5477149.99	0.2621	A	1.6
5	☐	2500.000	2479.859	11042655.25	0.5328	A	2.5
6	☐	5000.000	4875.352	22256834.95	1.0475	A	1.5
7	☐	10000.000	10070.777	45199272.10	2.1638	A	0.9
8	☐			9473.32	0.0005	P	3.5

$$y = 2.1486E-004 * x + 1.4035E-005$$

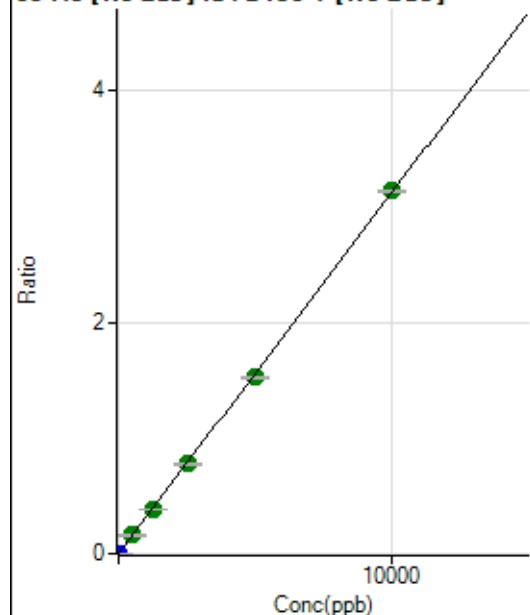
$$R = 0.9999$$

$$DL = 0.03707$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	150.00	0.0000	P	5.7
2	☐	5.000	4.481	29261.91	0.0014	P	2.8
3	☐	500.000	507.301	3202833.60	0.1582	A	1.8
4	☐	1250.000	1213.751	7908393.43	0.3785	A	1.4
5	☐	2500.000	2483.290	16047473.79	0.7743	A	2.4
6	☐	5000.000	4899.003	32456944.52	1.5276	A	0.9
7	☐	10000.000	10058.842	65520476.80	3.1364	A	0.8
8	☐			8918.50	0.0005	P	1.8

$$y = 3.1181\text{E-}004 * x + 7.1765\text{E-}006$$

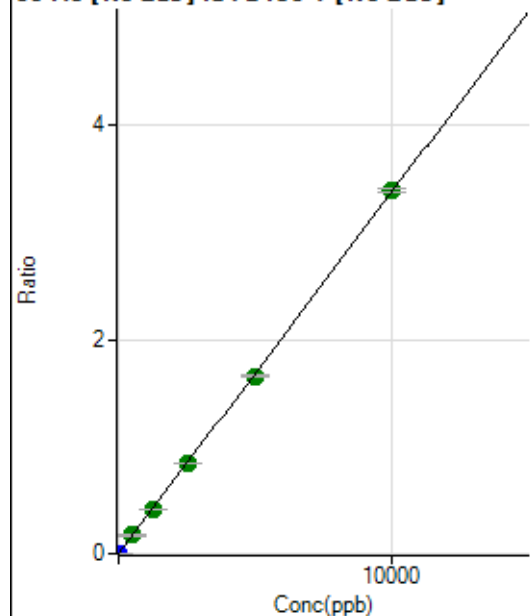
$$R = 0.9999$$

$$DL = 0.003929$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	216.67	0.0000	P	10.6
2	☐	5.000	4.616	32655.08	0.0016	P	2.6
3	☐	500.000	506.958	3461272.73	0.1710	A	2.7
4	☐	1250.000	1220.486	8600118.62	0.4116	A	1.8
5	☐	2500.000	2489.190	17400641.27	0.8394	A	1.1
6	☐	5000.000	4921.834	35265882.81	1.6598	A	1.3
7	☐	10000.000	10045.127	70759968.39	3.3875	A	0.9
8	☐			12352.25	0.0007	P	2.5

$$y = 3.3722\text{E-}004 * x + 1.0367\text{E-}005$$

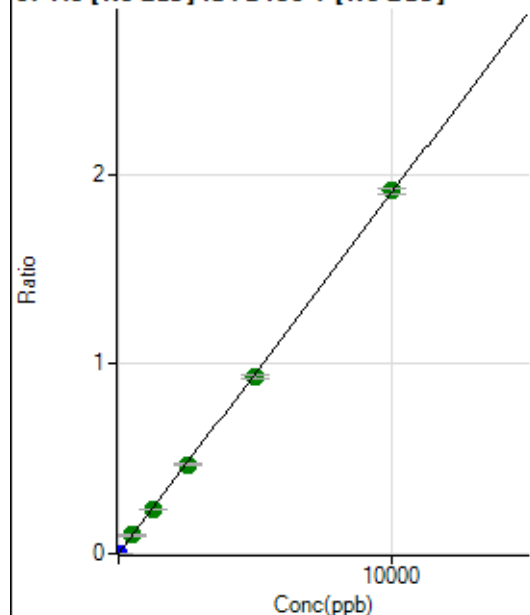
$$R = 0.9999$$

$$DL = 0.009792$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	116.67	0.0000	P	23.1
2	☐	5.000	4.503	17951.69	0.0009	P	3.5
3	☐	500.000	508.893	1958301.76	0.0967	A	2.5
4	☐	1250.000	1230.204	4885704.96	0.2338	A	2.8
5	☐	2500.000	2478.084	9763056.31	0.4710	A	1.7
6	☐	5000.000	4904.565	19806551.51	0.9322	A	1.8
7	☐	10000.000	10055.227	39921176.07	1.9112	A	1.5
8	☐			4465.21	0.0002	P	5.6

$$y = 1.9007\text{E-}004 * x + 5.5838\text{E-}006$$

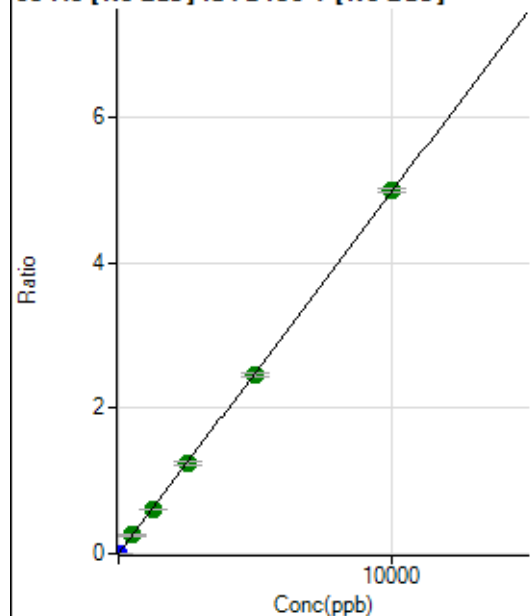
$$R = 0.9999$$

$$DL = 0.02032$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	301.12	0.0000	P	21.0
2	☐	5.000	4.507	47014.96	0.0023	P	0.6
3	☐	500.000	507.129	5105632.39	0.2522	A	2.3
4	☐	1250.000	1226.884	12748384.26	0.6101	A	1.6
5	☐	2500.000	2499.237	25755465.45	1.2428	A	2.7
6	☐	5000.000	4937.660	52167283.67	2.4554	A	1.8
7	☐	10000.000	10033.894	104224731.7	4.9896	A	1.1
8	☐			11132.34	0.0006	P	2.4

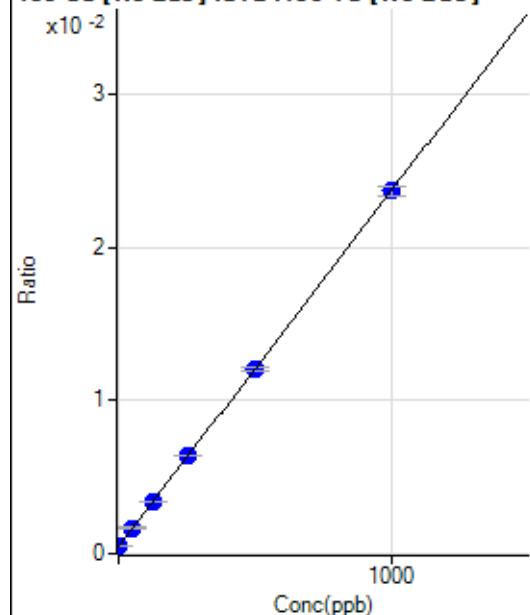
$$y = 4.9727\text{E-}004 * x + 1.4411\text{E-}005$$

$$R = 1.0000$$

$$DL = 0.01824$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	6826.18	0.0005	P	2.2
2	☐	1.000	1.001	7251.96	0.0005	P	1.5
3	☐	50.000	52.252	24371.59	0.0017	P	2.1
4	☐	125.000	126.272	51051.73	0.0034	P	2.0
5	☐	250.000	255.276	95698.51	0.0064	P	0.9
6	☐	500.000	498.627	183642.41	0.0120	P	1.3
7	☐	1000.000	999.096	355017.00	0.0237	P	2.4
8	☐			6002.47	0.0004	P	2.9

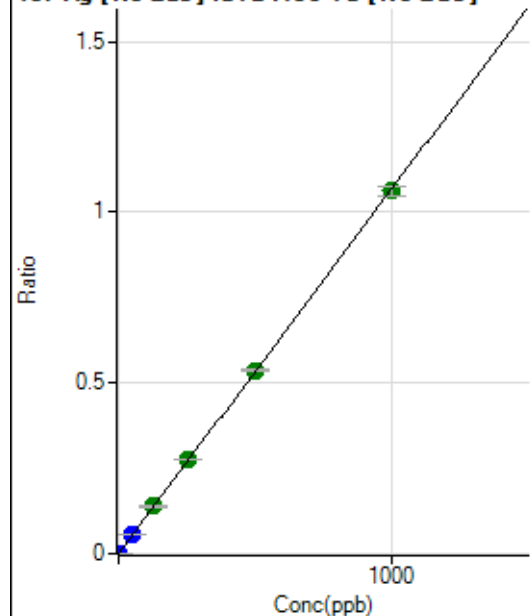
$$y = 2.3226\text{E-}005 * x + 4.6281\text{E-}004$$

$$R = 1.0000$$

$$DL = 1.316$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	131.12	0.0000	P	4.6
2	☐	1.000	0.917	14737.96	0.0010	P	2.8
3	☐	50.000	51.452	798108.41	0.0549	P	3.3
4	☐	125.000	130.562	2094258.65	0.1393	A	3.9
5	☐	250.000	259.185	4140908.58	0.2766	A	0.3
6	☐	500.000	502.645	8178034.88	0.5363	A	1.1
7	☐	1000.000	995.614	15934829.76	1.0623	A	2.7
8	☐			1701.23	0.0001	P	6.2

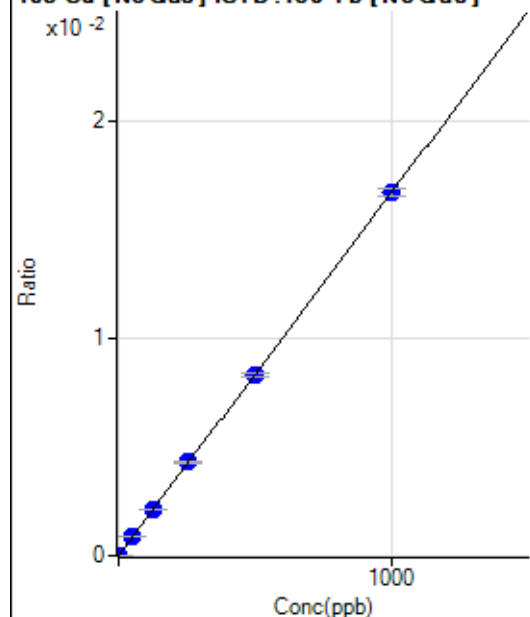
$$y = 0.0011 * x + 8.8869\text{E-}006$$

$$R = 0.9999$$

$$DL = 0.001159$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	23.33	0.0000	P	52.0
2	☐	1.000	0.974	266.67	0.0000	P	6.1
3	☐	50.000	53.724	13085.19	0.0009	P	3.4
4	☐	125.000	126.363	31796.65	0.0021	P	2.7
5	☐	250.000	256.976	64371.48	0.0043	P	1.2
6	☐	500.000	497.174	126816.31	0.0083	P	1.4
7	☐	1000.000	999.312	250742.93	0.0167	P	2.2
8	☐			128.89	0.0000	P	12.0

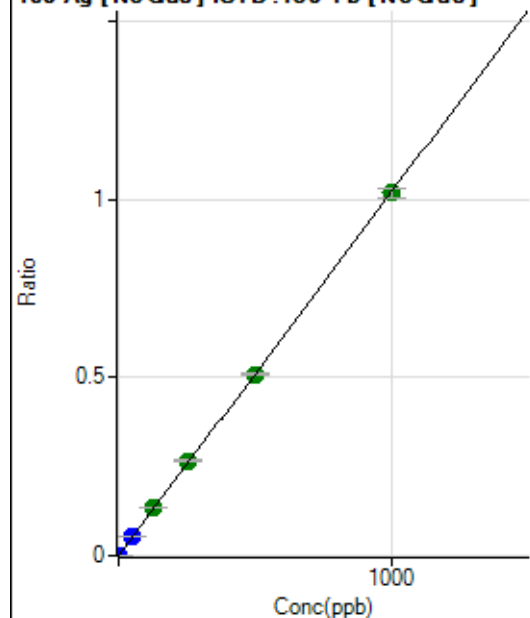
$$y = 1.6725\text{E-}005 * x + 1.5858\text{E-}006$$

$$R = 1.0000$$

$$DL = 0.148$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	45.55	0.0000	P	16.1
2	☐	1.000	0.918	14021.69	0.0009	P	1.1
3	☐	50.000	51.469	763590.49	0.0525	P	3.1
4	☐	125.000	131.855	2023415.26	0.1346	A	1.3
5	☐	250.000	259.655	3967433.90	0.2650	A	1.7
6	☐	500.000	497.923	7748785.44	0.5082	A	1.0
7	☐	1000.000	997.694	15272903.80	1.0182	A	2.7
8	☐			1543.44	0.0001	P	5.8

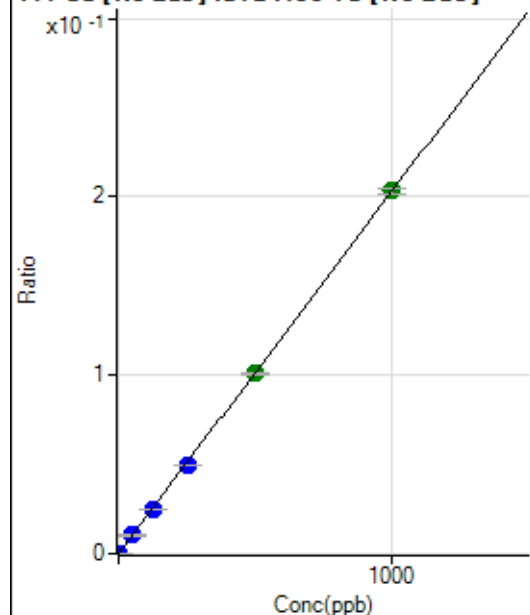
$$y = 0.0010 * x + 3.0909\text{E-}006$$

$$R = 0.9999$$

$$DL = 0.001461$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	1372.24	0.0001	P	2.0
2	☐	1.000	0.949	4257.41	0.0003	P	0.8
3	☐	50.000	50.772	150825.04	0.0104	P	3.3
4	☐	125.000	122.124	373285.56	0.0248	P	1.7
5	☐	250.000	244.627	743145.75	0.0496	P	1.7
6	☐	500.000	497.144	1536697.40	0.1008	A	1.4
7	☐	1000.000	1003.092	3049427.39	0.2033	A	1.3
8	☐			1826.97	0.0001	P	3.6

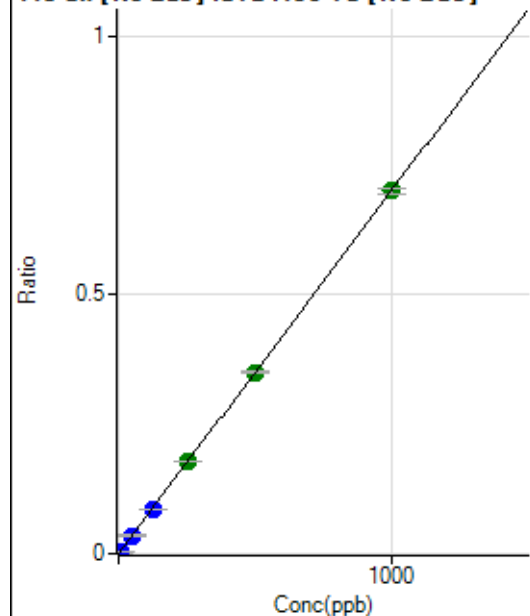
$$y = 2.0253\text{E-}004 * x + 9.3038\text{E-}005$$

$$R = 1.0000$$

$$DL = 0.02824$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	934.49	0.0001	P	3.0
2	☐	5.000	4.628	49357.43	0.0033	P	1.3
3	☐	50.000	50.160	512148.41	0.0352	P	2.2
4	☐	125.000	121.532	1281933.42	0.0853	P	2.0
5	☐	250.000	254.278	2669817.55	0.1783	A	1.6
6	☐	500.000	499.643	5342084.23	0.3503	A	0.9
7	☐	1000.000	999.536	10513021.23	0.7008	A	1.9
8	☐			2392.46	0.0002	P	6.3

$$y = 7.0106\text{E-}004 * x + 6.3356\text{E-}005$$

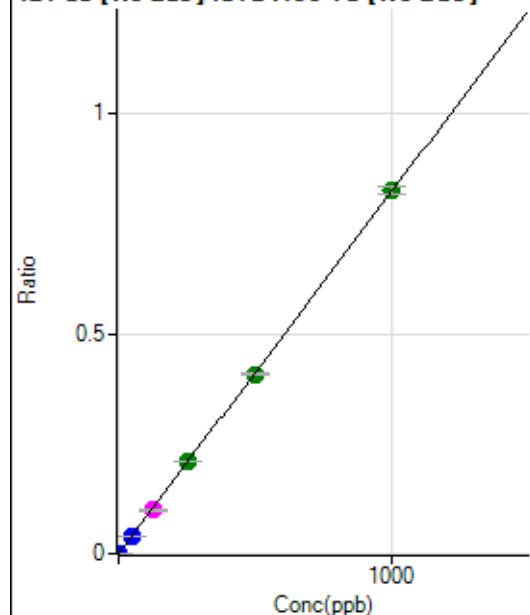
$$R = 1.0000$$

$$DL = 0.008079$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	50.00	0.0000	P	25.9
2	☐	2.000	1.826	22446.28	0.0015	P	2.0
3	☐	50.000	49.374	590195.44	0.0406	P	2.5
4	☐	125.000	121.497	1501730.27	0.0999	M	3.7
5	☐	250.000	254.161	3128689.29	0.2090	A	1.5
6	☐	500.000	494.599	6200904.56	0.4067	A	0.9
7	☐	1000.000	1002.130	12360214.54	0.8240	A	2.1
8	☐			3456.03	0.0003	P	6.8

$$y = 8.2221\text{E-}004 * x + 3.3850\text{E-}006$$

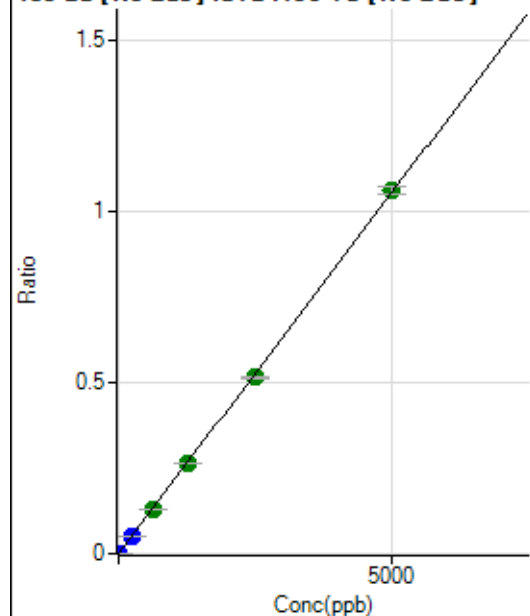
$$R = 1.0000$$

$$DL = 0.003203$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	200.01	0.0000	P	6.6
2	☐	10.000	9.206	29144.65	0.0020	P	2.1
3	☐	250.000	244.236	748319.66	0.0515	P	2.7
4	☐	625.000	623.539	1976104.28	0.1314	A	0.8
5	☐	1250.000	1252.476	3951240.81	0.2639	A	1.8
6	☐	2500.000	2439.690	7838775.37	0.5141	A	1.5
7	☐	5000.000	5030.009	15899461.85	1.0599	A	2.2
8	☐			5824.63	0.0004	P	3.8

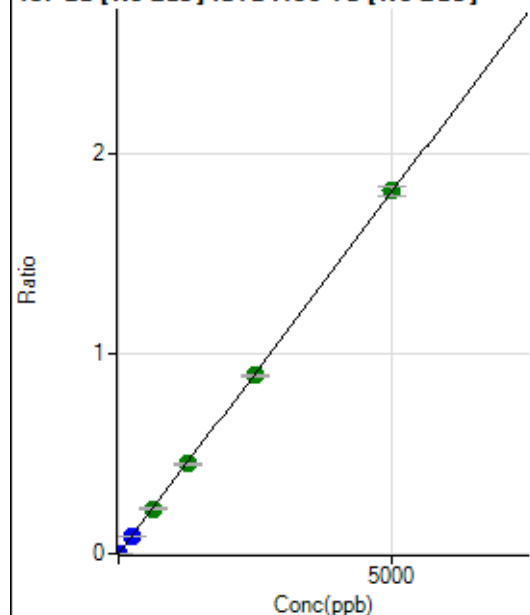
$$y = 2.1072\text{E-}004 * x + 1.3564\text{E-}005$$

$$R = 0.9999$$

$$DL = 0.0127$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	348.90	0.0000	P	9.6
2	☐	10.000	9.285	50445.87	0.0034	P	0.9
3	☐	250.000	248.156	1304748.23	0.0898	P	2.7
4	☐	625.000	623.718	3391614.57	0.2256	A	0.8
5	☐	1250.000	1241.035	6718265.18	0.4488	A	2.3
6	☐	2500.000	2462.409	13576784.38	0.8904	A	1.9
7	☐	5000.000	5021.290	27235745.71	1.8157	A	2.5
8	☐			10073.85	0.0008	P	3.4

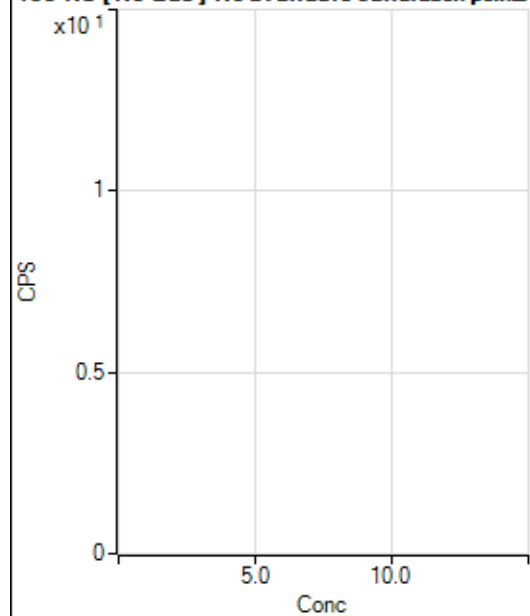
$$y = 3.6160E-004 * x + 2.3643E-005$$

$$R = 1.0000$$

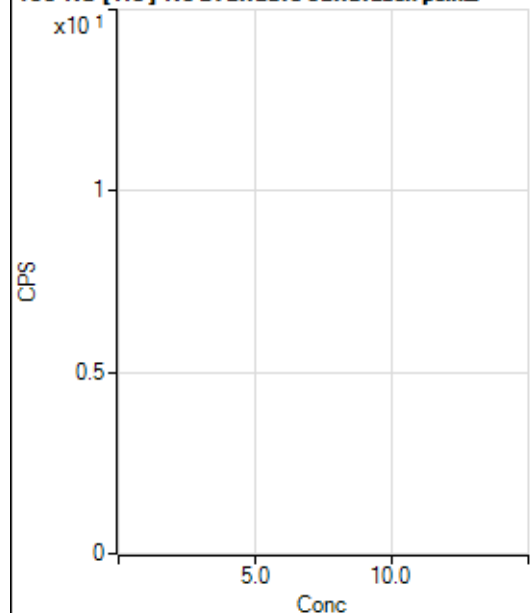
$$DL = 0.01887$$

Weight: <None>

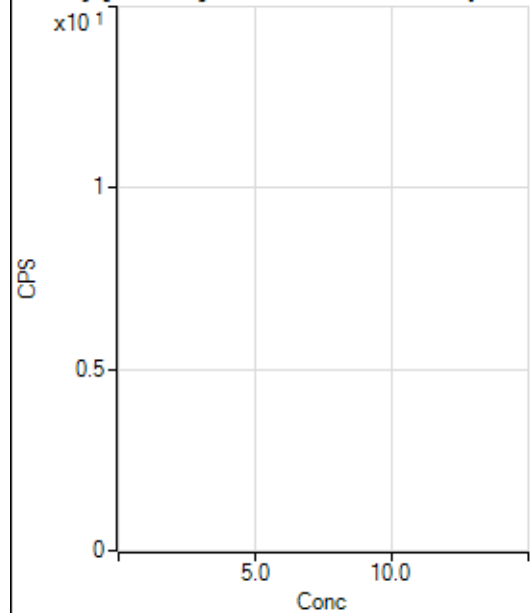
Min Conc: 0

150 Nd [No Gas] No available calibration points

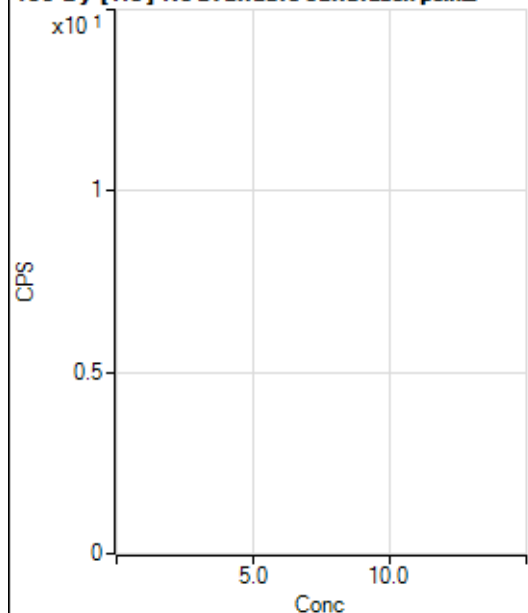
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			5.56		P	34.7
2	☐			20.00		P	66.7
3	☐			80.00		P	14.4
4	☐			181.11		P	12.3
5	☐			356.68		P	3.2
6	☐			732.25		P	3.9
7	☐			1403.42		P	6.7
8	☐			306.67		P	3.9

150 Nd [He] No available calibration points

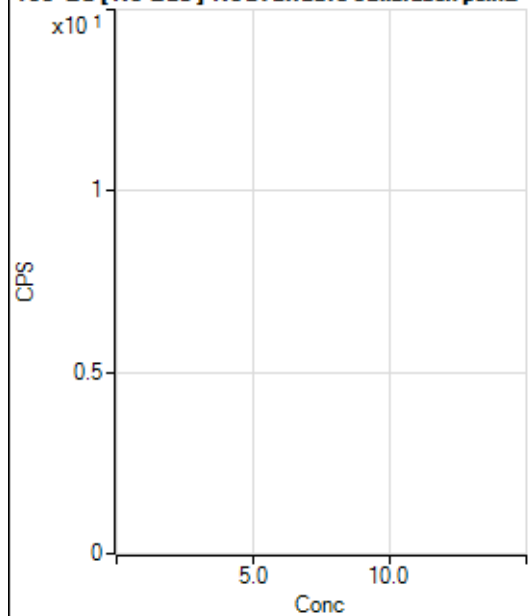
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			1.11		P	173.2
2	☐			2.22		P	86.6
3	☐			3.33		P	100.1
4	☐			8.89		P	108.3
5	☐			16.67		P	40.0
6	☐			33.33		P	17.3
7	☐			32.22		P	46.6
8	☐			50.00		P	29.1

156 Dy [No Gas] No available calibration points

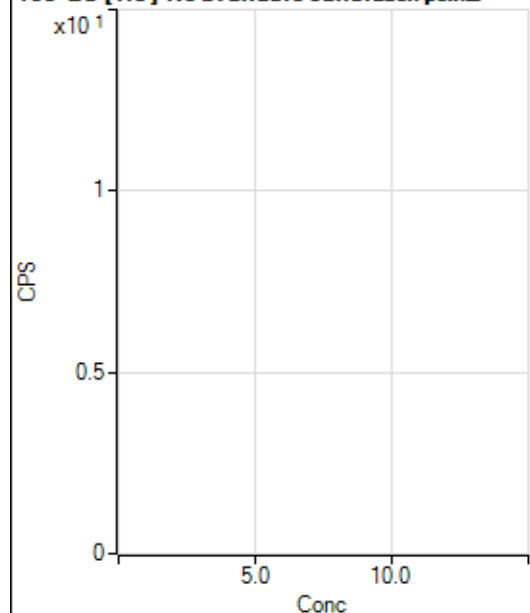
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			50.00		P	23.1
2	☐			54.45		P	24.7
3	☐			74.44		P	24.7
4	☐			92.22		P	10.4
5	☐			138.89		P	18.0
6	☐			236.67		P	17.6
7	☐			402.23		P	4.3
8	☐			480.02		P	11.4

156 Dy [He] No available calibration points

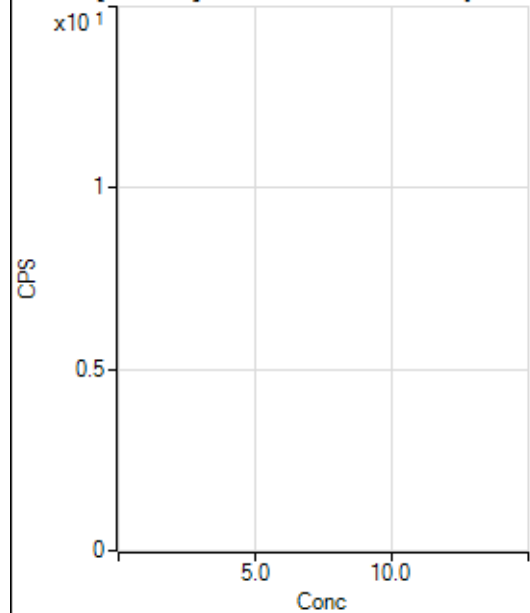
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			4.44		P	114.6
2	☐			4.44		P	43.4
3	☐			8.89		P	57.3
4	☐			7.78		P	107.8
5	☐			13.33		P	25.0
6	☐			25.56		P	37.7
7	☐			52.22		P	13.3
8	☐			138.89		P	5.0

160 Gd [No Gas] Noavailable calibration poin_

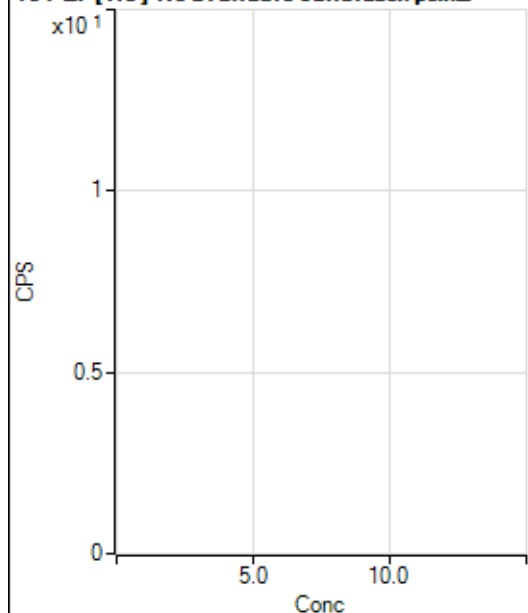
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			51.11		P	26.4
2	☐			60.00		P	38.9
3	☐			73.33		P	16.4
4	☐			73.33		P	4.5
5	☐			96.67		P	15.8
6	☐			114.45		P	14.7
7	☐			190.00		P	17.8
8	☐			494.46		P	6.7

160 Gd [He] No available calibration points

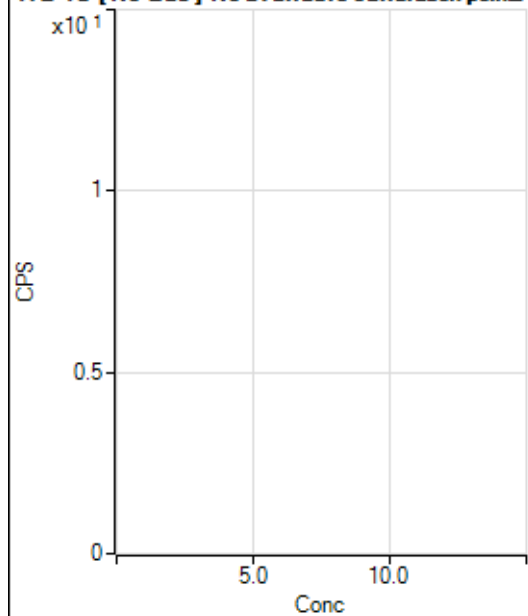
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			15.56		P	12.4
2	☐			10.00		P	33.3
3	☐			14.44		P	13.4
4	☐			16.67		P	20.0
5	☐			23.33		P	14.3
6	☐			51.11		P	3.8
7	☐			62.22		P	26.4
8	☐			167.78		P	19.9

164 Er [No Gas] No available calibration points

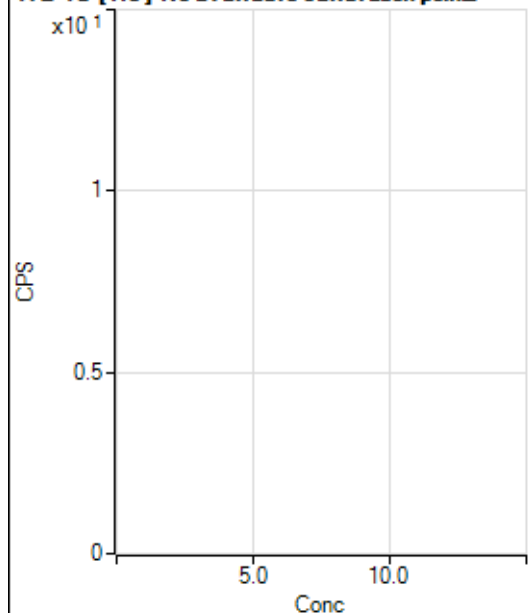
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			76.67		P	15.7
2	☐			78.89		P	6.5
3	☐			97.78		P	17.2
4	☐			102.22		P	8.2
5	☐			105.56		P	18.0
6	☐			157.78		P	24.7
7	☐			217.78		P	6.4
8	☐			547.79		P	0.4

164 Er [He] No available calibration points

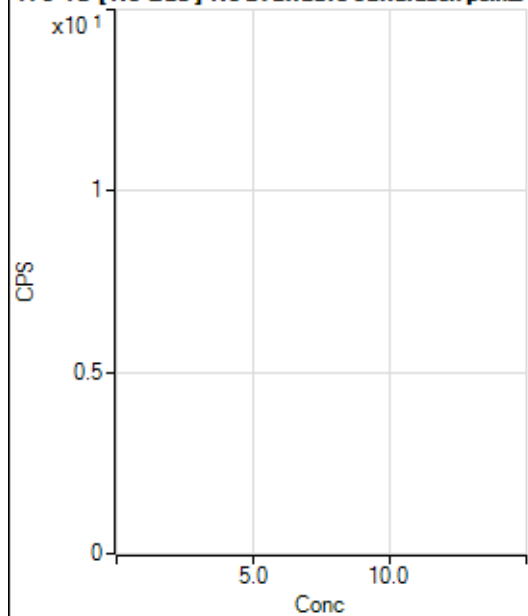
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			22.22		P	8.7
2	☐			18.89		P	20.4
3	☐			18.89		P	20.4
4	☐			42.22		P	19.9
5	☐			40.00		P	22.0
6	☐			36.67		P	39.6
7	☐			73.33		P	18.2
8	☐			164.45		P	11.2

172 Yb [No Gas] No available calibration points

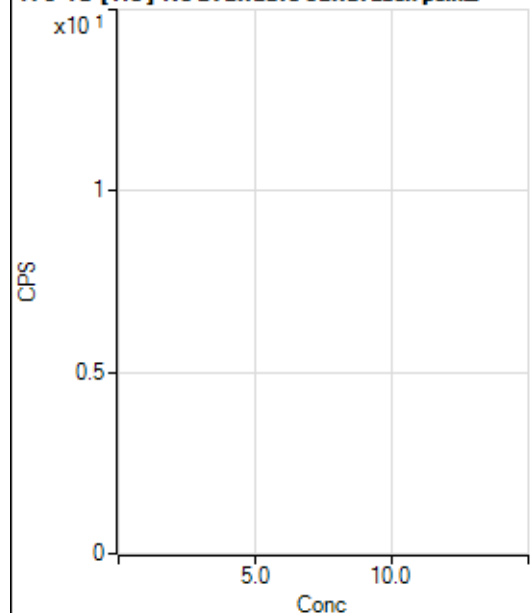
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			70.00		P	37.2
2	☐			61.11		P	40.9
3	☐			93.33		P	9.5
4	☐			117.78		P	26.3
5	☐			108.89		P	12.4
6	☐			153.34		P	8.7
7	☐			226.67		P	12.6
8	☐			591.13		P	5.8

172 Yb [He] No available calibration points

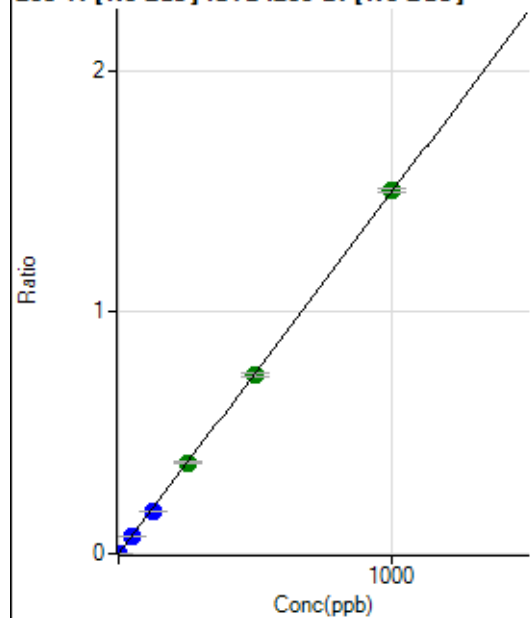
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			25.56		P	49.4
2	☐			31.11		P	6.2
3	☐			32.22		P	15.8
4	☐			33.33		P	26.5
5	☐			35.55		P	30.1
6	☐			60.00		P	14.7
7	☐			91.11		P	15.2
8	☐			234.45		P	5.4

176 Yb [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			1897.94		P	6.9
2	☐			2042.40		P	2.1
3	☐			4661.99		P	2.4
4	☐			8869.73		P	3.8
5	☐			15875.18		P	1.2
6	☐			29931.68		P	0.9
7	☐			58456.36		P	1.6
8	☐			2137.97		P	2.4

176 Yb [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			332.23		P	9.3
2	☐			315.56		P	17.0
3	☐			1212.29		P	1.8
4	☐			2628.07		P	4.4
5	☐			5002.10		P	2.4
6	☐			9799.29		P	1.8
7	☐			19007.11		P	0.1
8	☐			366.68		P	7.9

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	161.11	0.0000	P	6.1
2	☐	1.000	0.845	11685.34	0.0013	P	4.0
3	☐	50.000	47.542	634129.76	0.0712	P	2.9
4	☐	125.000	117.013	1582106.49	0.1752	P	1.4
5	☐	250.000	251.601	3337272.10	0.3766	A	3.0
6	☐	500.000	493.882	6525539.00	0.7393	A	1.7
7	☐	1000.000	1003.780	12787292.73	1.5026	A	1.2
8	☐			1011.16	0.0001	P	16.8

$$y = 0.0015 * x + 1.7733E-005$$

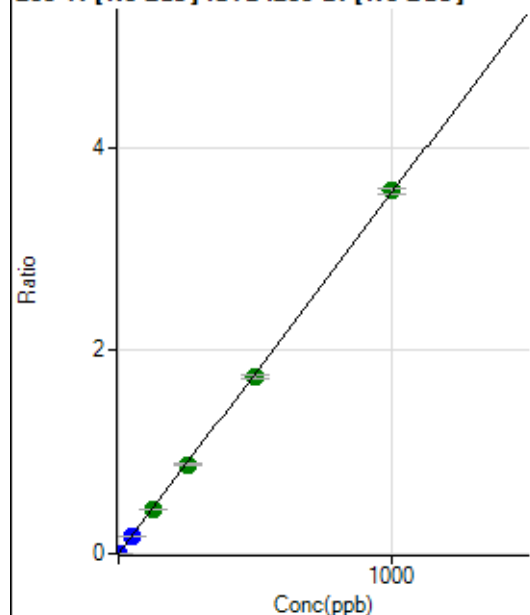
$$R = 0.9999$$

$$DL = 0.002173$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	358.90	0.0000	P	11.3
2	☐	1.000	0.872	28620.46	0.0031	P	3.2
3	☐	50.000	47.485	1503981.80	0.1688	P	3.0
4	☐	125.000	122.622	3936920.88	0.4359	A	1.2
5	☐	250.000	247.189	7787090.51	0.8787	A	2.2
6	☐	500.000	490.483	15389284.77	1.7435	A	1.2
7	☐	1000.000	1005.884	30426933.99	3.5755	A	1.5
8	☐			2412.47	0.0003	P	8.8

$$y = 0.0036 * x + 3.9518E-005$$

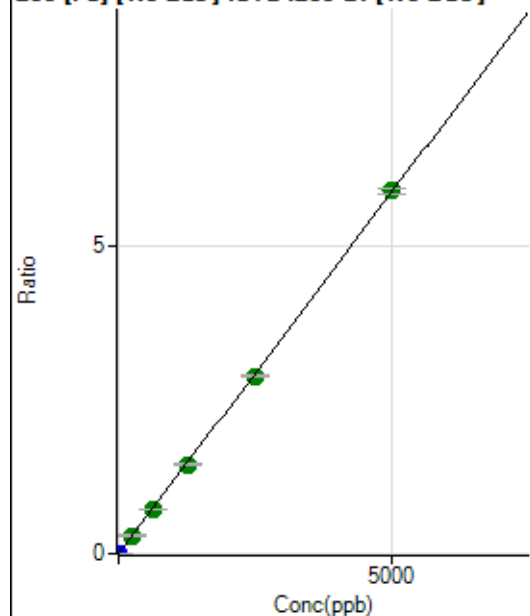
$$R = 0.9999$$

$$DL = 0.003769$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	960.05	0.0001	P	7.8
2	☐	1.000	0.882	10370.90	0.0011	P	0.3
3	☐	250.000	251.798	2626082.44	0.2948	A	3.8
4	☐	625.000	612.307	6474209.76	0.7168	A	0.5
5	☐	1250.000	1238.056	12840376.75	1.4492	A	3.3
6	☐	2500.000	2460.124	25418076.84	2.8796	A	0.8
7	☐	5000.000	5024.421	50044358.70	5.8811	A	1.9
8	☐			9086.58	0.0013	P	0.9

$$y = 0.0012 * x + 1.0569E-004$$

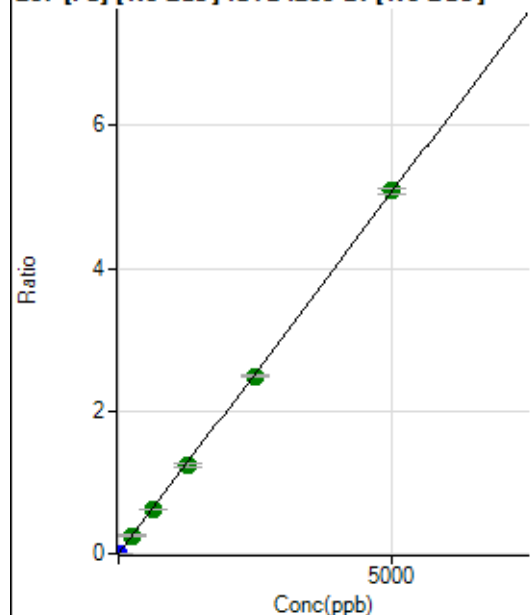
$$R = 0.9999$$

$$DL = 0.02101$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	811.15	0.0001	P	13.8
2	☐	1.000	0.907	9188.88	0.0010	P	1.6
3	☐	250.000	252.209	2275411.11	0.2555	A	3.8
4	☐	625.000	616.058	5634948.73	0.6239	A	0.5
5	☐	1250.000	1234.600	11074745.81	1.2502	A	4.3
6	☐	2500.000	2461.191	21996063.28	2.4922	A	1.9
7	☐	5000.000	5024.262	43291411.30	5.0874	A	1.8
8	☐			7777.98	0.0011	P	0.4

$$y = 0.0010 * x + 8.9289E-005$$

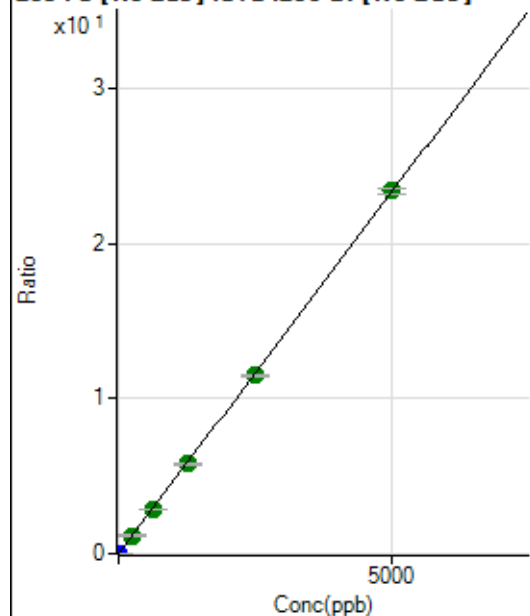
$$R = 0.9999$$

$$DL = 0.03647$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	3730.25	0.0004	P	1.9
2	☐	1.000	0.892	41627.53	0.0046	P	1.6
3	☐	250.000	251.851	10463203.47	1.1746	A	3.5
4	☐	625.000	610.582	25715235.80	2.8472	A	0.8
5	☐	1250.000	1240.196	51233985.48	5.7827	A	3.4
6	☐	2500.000	2469.252	101623914.8	11.5131	A	1.0
7	☐	5000.000	5019.535	199152509.5	23.4036	A	1.8
8	☐			35735.08	0.0051	P	0.6

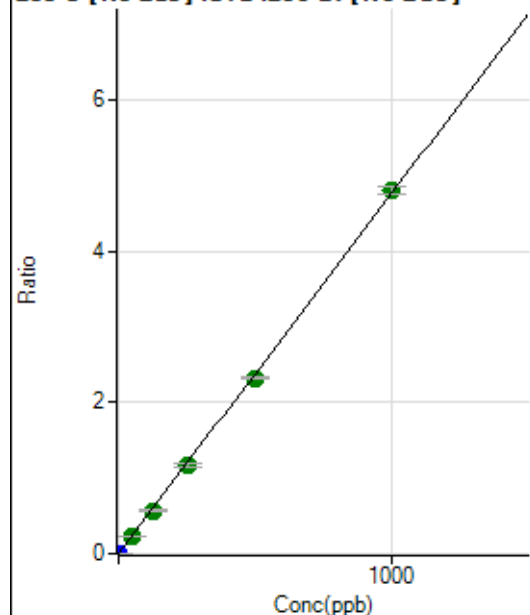
$$y = 0.0047 * x + 4.1062E-004$$

$$R = 1.0000$$

$$DL = 0.004964$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	35.55	0.0000	P	38.2
2	☐	1.000	0.862	37426.07	0.0041	P	2.0
3	☐	50.000	48.700	2064262.78	0.2317	A	3.0
4	☐	125.000	119.507	5135709.89	0.5686	A	1.2
5	☐	250.000	244.148	10291047.97	1.1617	A	4.0
6	☐	500.000	488.769	20527656.36	2.3256	A	1.3
7	☐	1000.000	1007.830	40804227.17	4.7954	A	2.2
8	☐			1571.23	0.0002	P	6.0

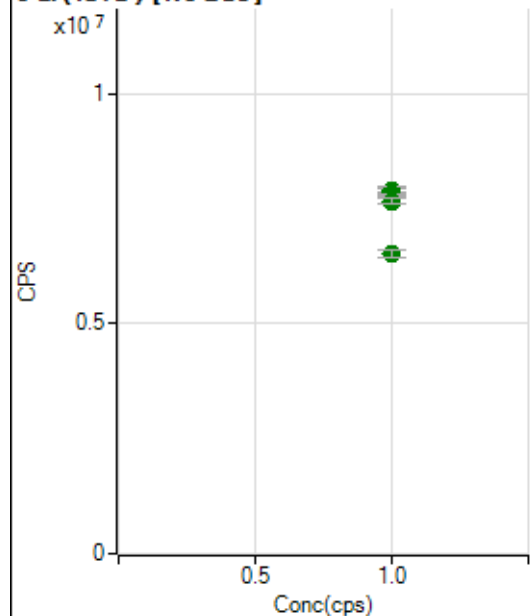
$$y = 0.0048 * x + 3.9159E-006$$

$$R = 0.9999$$

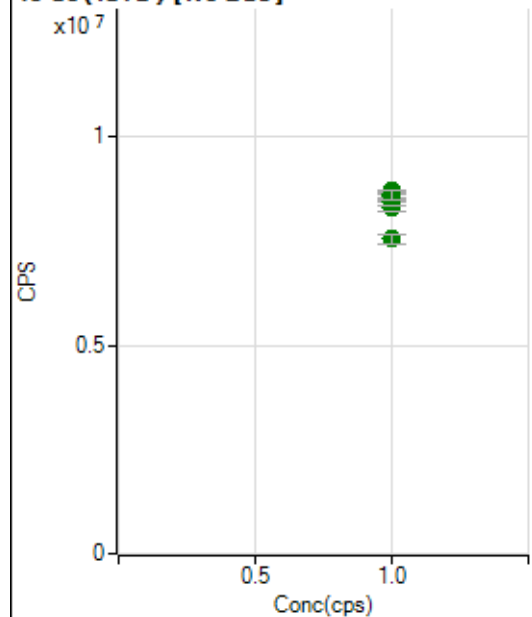
$$DL = 0.0009432$$

Weight: <None>

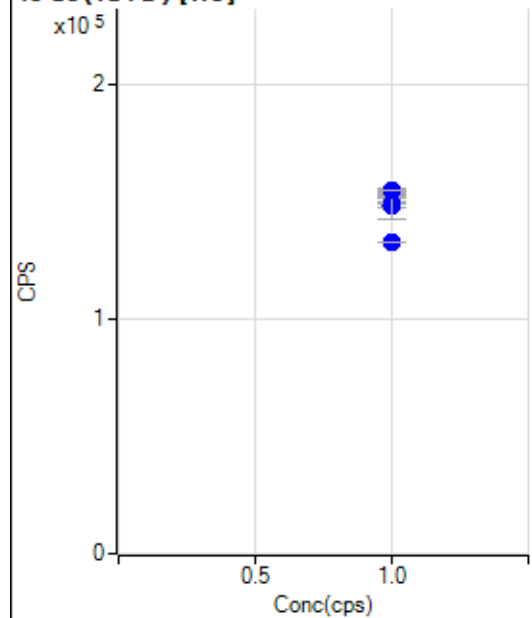
Min Conc: 0

6 Li (ISTD) [No Gas]

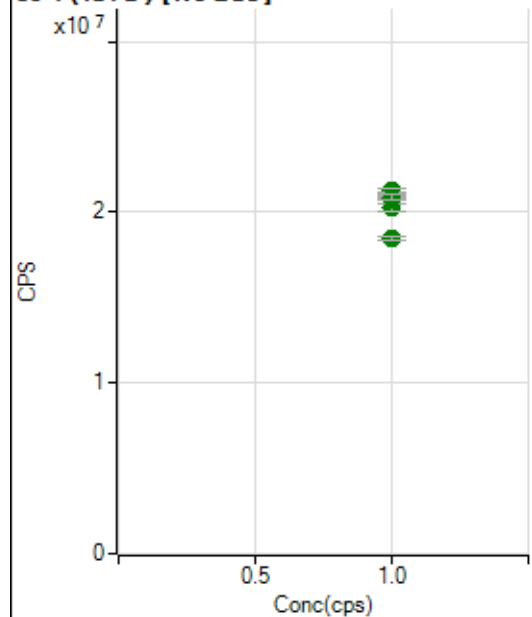
	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		7817874.65		A	1.1
2	☐	1.000		7874103.98		A	1.9
3	☐	1.000		7831424.31		A	2.4
4	☐	1.000		7879348.53		A	2.3
5	☐	1.000		7747671.29		A	0.4
6	☐	1.000		7790904.07		A	0.5
7	☐	1.000		7647256.29		A	1.6
8	☐	1.000		6516248.97		A	2.6

45 Sc (ISTD) [No Gas]

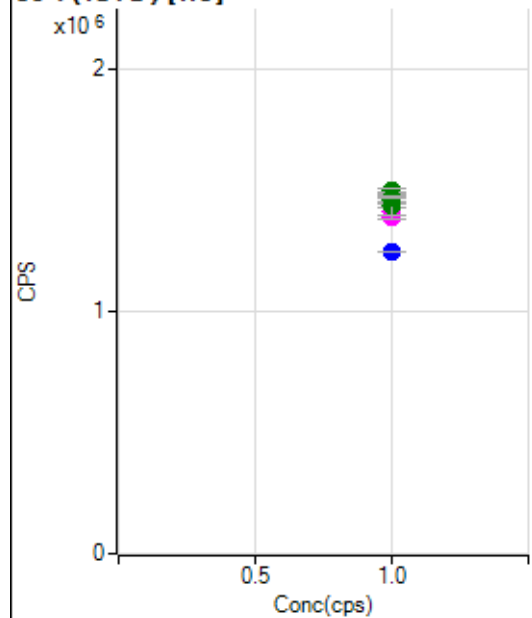
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		8575549.81		A	1.2
2	☐	1.000		8575470.29		A	1.1
3	☐	1.000		8310438.83		A	2.6
4	☐	1.000		8622018.76		A	2.5
5	☐	1.000		8427918.62		A	2.4
6	☐	1.000		8698886.81		A	0.2
7	☐	1.000		8592185.64		A	2.6
8	☐	1.000		7541809.12		A	2.6

45 Sc (ISTD) [He]

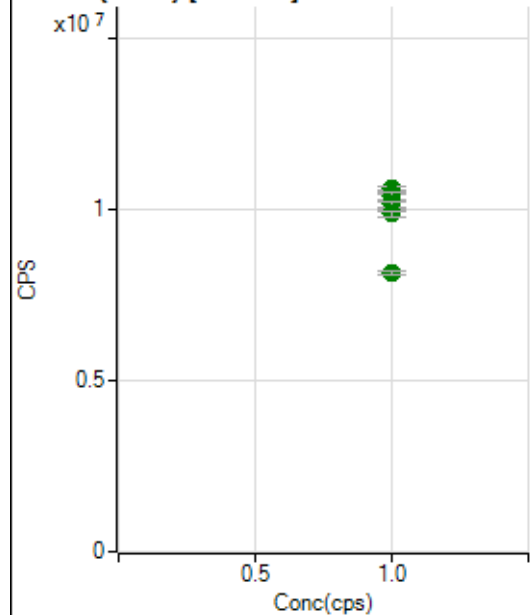
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		152642.42		P	0.2
2	☐	1.000		149837.90		P	0.8
3	☐	1.000		148574.75		P	1.1
4	☐	1.000		152546.13		P	0.8
5	☐	1.000		154450.41		P	2.2
6	☐	1.000		148241.72		P	7.6
7	☐	1.000		154713.47		P	0.1
8	☐	1.000		132733.40		P	0.4

89 Y (ISTD) [No Gas]

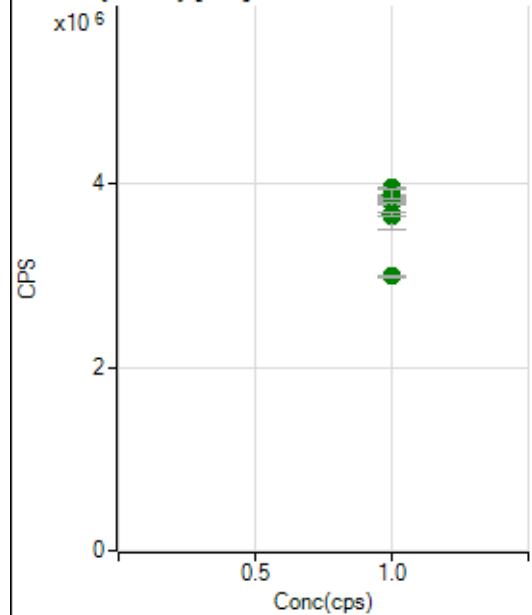
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		20900401.91		A	0.2
2	☐	1.000		20842957.75		A	1.5
3	☐	1.000		20251150.53		A	2.1
4	☐	1.000		20898187.05		A	1.3
5	☐	1.000		20732987.75		A	2.6
6	☐	1.000		21248919.82		A	1.1
7	☐	1.000		20890424.41		A	1.4
8	☐	1.000		18465125.14		A	1.6

89 Y (ISTD) [He]

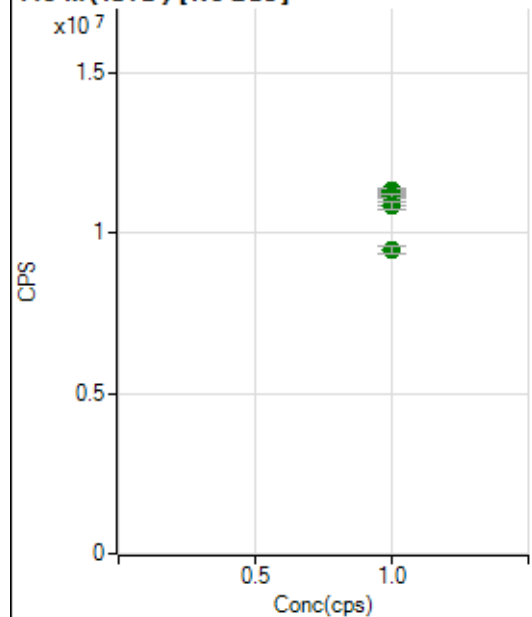
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		1457467.18		A	1.7
2	☐	1.000		1414277.97		M	2.2
3	☐	1.000		1384865.03		M	1.3
4	☐	1.000		1462984.04		A	1.3
5	☐	1.000		1495710.60		A	1.8
6	☐	1.000		1433042.57		A	7.7
7	☐	1.000		1469087.69		A	0.3
8	☐	1.000		1246232.36		P	0.2

103 Rh (ISTD) [No Gas]

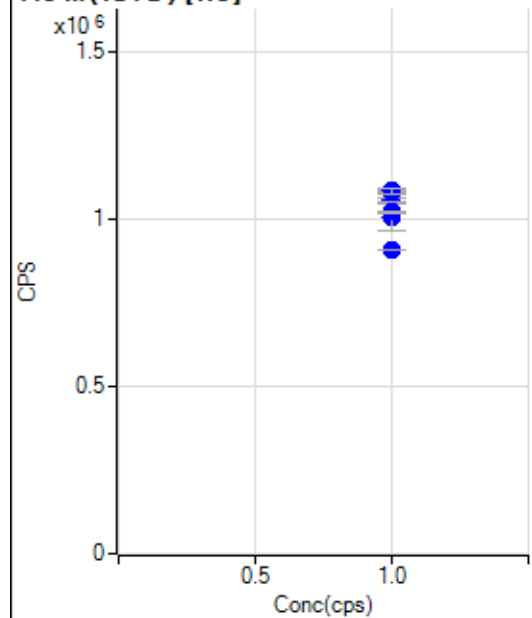
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		10593091.92		A	1.1
2	☐	1.000		10467481.65		A	0.7
3	☐	1.000		10146768.74		A	2.0
4	☐	1.000		10364250.13		A	2.1
5	☐	1.000		10141132.07		A	2.8
6	☐	1.000		10135895.06		A	1.6
7	☐	1.000		9861265.48		A	1.9
8	☐	1.000		8162931.82		A	1.4

103 Rh (ISTD) [He]

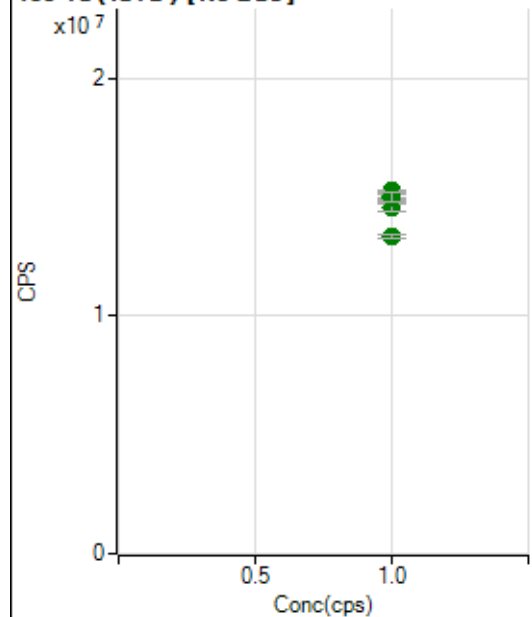
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		3953306.09		A	0.9
2	☐	1.000		3859508.52		A	0.4
3	☐	1.000		3799158.90		A	1.2
4	☐	1.000		3865354.46		A	1.0
5	☐	1.000		3886118.62		A	2.4
6	☐	1.000		3651499.36		A	8.2
7	☐	1.000		3662211.13		A	0.9
8	☐	1.000		2991270.17		A	0.4

115 In (ISTD) [No Gas]

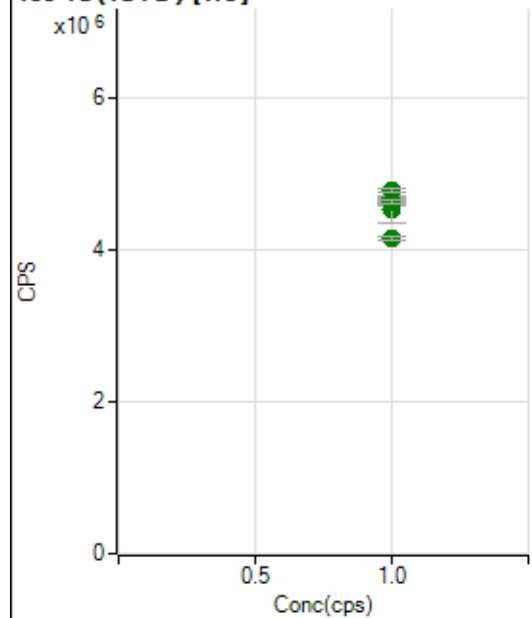
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		11294211.26		A	0.7
2	☐	1.000		11307275.57		A	1.1
3	☐	1.000		11069769.70		A	3.7
4	☐	1.000		11290962.98		A	2.2
5	☐	1.000		11061462.57		A	2.2
6	☐	1.000		11137083.83		A	0.9
7	☐	1.000		10868647.25		A	2.2
8	☐	1.000		9490464.83		A	2.6

115 In (ISTD) [He]

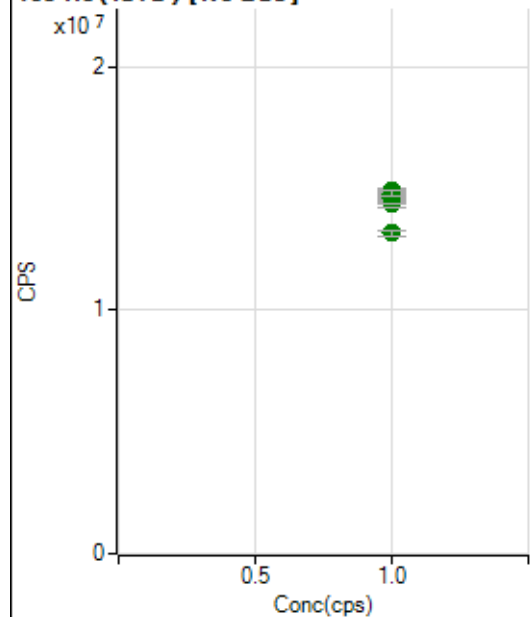
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		1083675.43		P	0.4
2	☐	1.000		1075705.06		P	0.2
3	☐	1.000		1054695.66		P	1.0
4	☐	1.000		1078166.62		P	0.7
5	☐	1.000		1082723.11		P	1.7
6	☐	1.000		1006134.84		P	8.3
7	☐	1.000		1020177.95		P	0.3
8	☐	1.000		906156.08		P	0.1

159 Tb (ISTD) [No Gas]

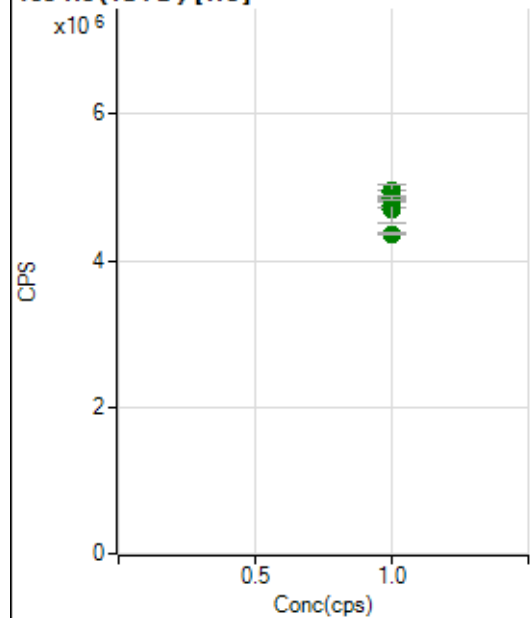
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		14750888.67		A	0.8
2	☐	1.000		14920717.28		A	0.7
3	☐	1.000		14541984.50		A	2.1
4	☐	1.000		15037351.31		A	1.4
5	☐	1.000		14973228.94		A	1.4
6	☐	1.000		15248455.61		A	0.5
7	☐	1.000		15006042.55		A	2.5
8	☐	1.000		13344268.55		A	1.1

159 Tb (ISTD) [He]

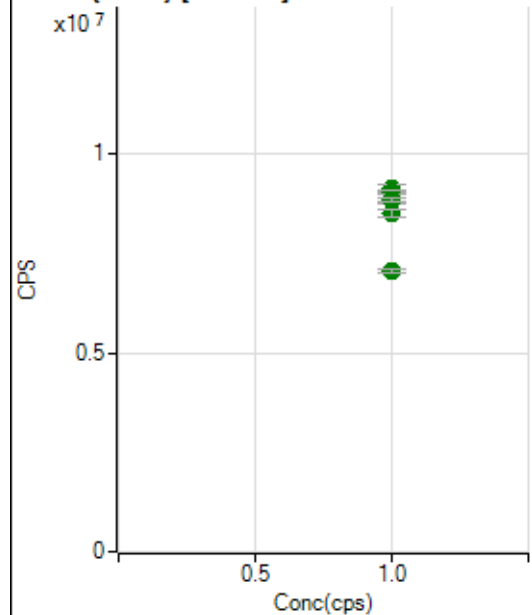
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		4650482.05		A	1.9
2	☐	1.000		4629836.84		A	1.5
3	☐	1.000		4639459.83		A	0.5
4	☐	1.000		4696882.01		A	1.1
5	☐	1.000		4785059.10		A	1.1
6	☐	1.000		4540351.91		A	7.9
7	☐	1.000		4643511.11		A	1.0
8	☐	1.000		4152928.86		A	1.4

165 Ho (ISTD) [No Gas]

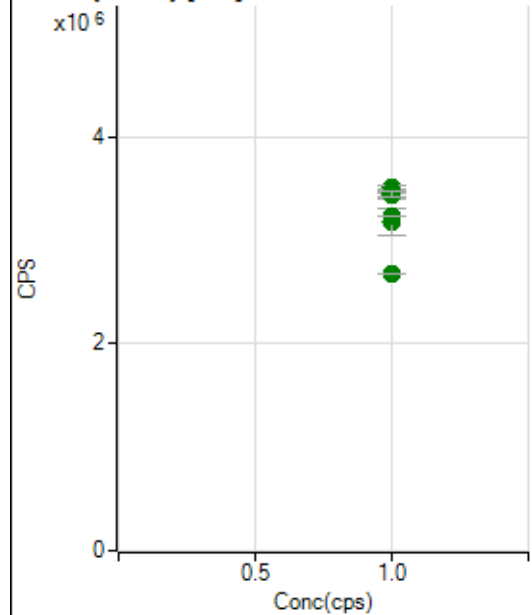
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		14500171.17		A	0.6
2	☐	1.000		14512825.48		A	0.9
3	☐	1.000		14391615.34		A	2.5
4	☐	1.000		14905180.06		A	1.3
5	☐	1.000		14577045.62		A	3.1
6	☐	1.000		14830050.61		A	0.4
7	☐	1.000		14783517.14		A	1.6
8	☐	1.000		13183971.89		A	1.9

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		4836667.56		A	1.2
2	☐	1.000		4851278.61		A	0.9
3	☐	1.000		4758655.83		A	1.6
4	☐	1.000		4920110.00		A	1.4
5	☐	1.000		4950606.66		A	3.6
6	☐	1.000		4691554.62		A	8.1
7	☐	1.000		4855748.71		A	1.1
8	☐	1.000		4363812.85		A	0.7

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		9084615.15		A	0.5
2	☐	1.000		9116648.75		A	2.2
3	☐	1.000		8913358.69		A	2.8
4	☐	1.000		9032242.09		A	1.0
5	☐	1.000		8866295.35		A	3.2
6	☐	1.000		8827381.95		A	1.2
7	☐	1.000		8511547.58		A	2.1
8	☐	1.000		7053063.64		A	1.6

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		3507766.17		A	1.0
2	☐	1.000		3471963.80		A	0.9
3	☐	1.000		3437685.68		A	1.8
4	☐	1.000		3439538.56		A	0.8
5	☐	1.000		3450077.62		A	1.9
6	☐	1.000		3173421.69		A	8.2
7	☐	1.000		3235670.26		A	0.4
8	☐	1.000		2673475.19		A	0.1

US EPA Tune Check Report

Operator Name Jaswal

Acq/Data Batch D:\Agilent\ICPMH\1\DATA\P801225MS.b

Acq. Date-Time 2025-01-22 11:59:06

Report Comment ---

Instrument Name G8403A SG19224459

[No Gas]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
9		39671	396707.40			1.511	5.000
24		749099	7490986.70			1.035	5.000
25		102323	1023226.69			1.049	5.000
26		118970	1189701.22			1.547	5.000
59		164538	1645380.09			1.332	5.000
113		18170	181699.60			1.589	5.000
115		240039	2400392.67			2.515	5.000
206		54205	542046.66			1.418	5.000
207		46340	463398.63			1.241	5.000
208		115568	1155683.32			1.402	5.000
220		0	3.80			25.649	

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

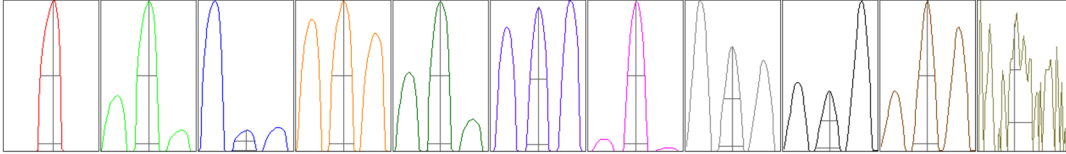
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	40253	40011	39929	38748	39413
24	756169	756005	750926	738489	743904
25	103349	103056	102797	100819	101592
26	120789	119857	120049	116326	117829
59	166775	166514	164344	161483	163575
113	18364	18330	18379	17705	18071
115	243014	247793	240582	231851	236956
206	54661	55105	54240	53077	53940
207	46406	46994	46774	45628	45897
208	116442	117158	116046	112947	115249

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	1

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	68242.72	9.10	8.90 - 9.10	
24	1299198.91	24.05	23.90 - 24.10	
25	177084.86	25.05	24.90 - 25.10	
26	202196.73	26.05	25.90 - 26.10	
59	291069.61	59.00	58.90 - 59.10	
113	36325.13	113.05	112.90 - 113.10	
115	472674.60	115.05	114.90 - 115.10	
206	107582.87	206.00	205.90 - 206.10	
207	93135.44	207.00	206.90 - 207.10	
208	233972.86	208.00	207.90 - 208.10	
220	0.55	219.70	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.62	0.740	0.900	
24	0.61	0.741	0.900	
25	0.61	0.742	0.900	
26	0.62	0.784	0.900	
59	0.60	0.738	0.900	
113	0.53	0.685	0.900	
115	0.53	0.729	0.900	
206	0.52	0.777	0.900	
207	0.51	0.774	0.900	
208	0.50	0.798	0.900	
220	0.33	0.764		

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode --- Nebulizer Gas 0.78 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	-6.0 V	Omega Lens	7.9 V	Deflect	14.8 V
Extract 2	-135.0 V	Cell Entrance	-30 V	Plate Bias	-50 V
Omega Bias	-70 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	4.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	---	OctP RF	170 V		

QP Parameters

Mass Gain	103	Axis Gain	0.9959	QP Bias	-4.0 V
Mass Offset	126	Axis Offset	0.07		

Hardware Settings

Torch

Torch H	-0.2 mm	Torch V	1.5 mm
---------	---------	---------	--------

EM

Discriminator	4.0 mV	Analog HV	2176 V	Pulse HV	1058 V
---------------	--------	-----------	--------	----------	--------

[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		28019	280193.65			0.366	
89		20843	208425.19			0.281	
205		29640	296403.17			0.240	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	28053	27980	27864	28133	28068
89	20892	20896	20755	20851	20818
205	29584	29618	29690	29573	29738

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.78 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	-6.0 V	Omega Lens	7.9 V	Deflect	2.0 V
-----------	--------	------------	-------	---------	-------

US EPA Tune Check Report

Extract 2	-135.0 V	Cell Entrance	-50 V	Plate Bias	-60 V
Omega Bias	-70 V	Cell Exit	-70 V		
Cell Parameters					
Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	4.5 mL/min	OctP Bias	-18.0 V		
H2 Flow	---	OctP RF	200 V		
QP Parameters					
Mass Gain	103	Axis Gain	0.9959	QP Bias	-13.0 V
Mass Offset	126	Axis Offset	0.07		
Hardware Settings					
Torch					
Torch H	-0.2 mm	Torch V	1.5 mm		
EM					
Discriminator	4.0 mV	Analog HV	2176 V	Pulse HV	1058 V