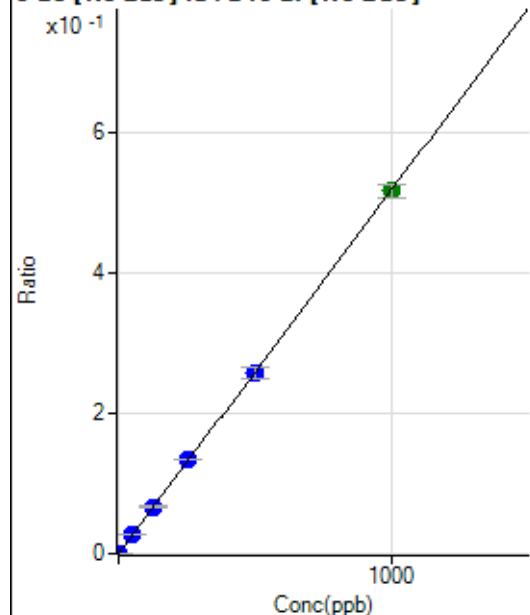


Batch Folder: D:\Agilent\ICPMH\1\DATA\P7102822-MS.b\
Analysis File: P7102822-MS.batch.bin
DA Date-Time: 2022-10-28 16:44:57
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.d	S00	2022-10-28 15:01:47
2	005CALS.d	S02	2022-10-28 15:04:38
3	006CALS.d	S03	2022-10-28 15:07:31
4	007CALS.d	S04	2022-10-28 15:10:14
5	008CALS.d	S05	2022-10-28 15:13:00
6	009CALS.d	S06	2022-10-28 15:15:45
7	010CALS.d	S07	2022-10-28 15:18:31
8	011CALS.d	S08	2022-10-28 15:21:15

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	82.22	0.0000	P	21.4
2	☐	1.000	1.050	2181.29	0.0006	P	3.7
3	☐	50.000	52.516	104786.73	0.0273	P	0.9
4	☐	125.000	128.442	257236.03	0.0667	P	2.3
5	☐	250.000	259.895	505270.78	0.1349	P	1.0
6	☐	500.000	498.986	977699.09	0.2589	P	6.3
7	☐	1000.000	997.477	1885422.26	0.5175	A	3.6
8	☐			898.93	0.0003	P	12.5

$$y = 5.1882\text{E-}004 * x + 2.1190\text{E-}005$$

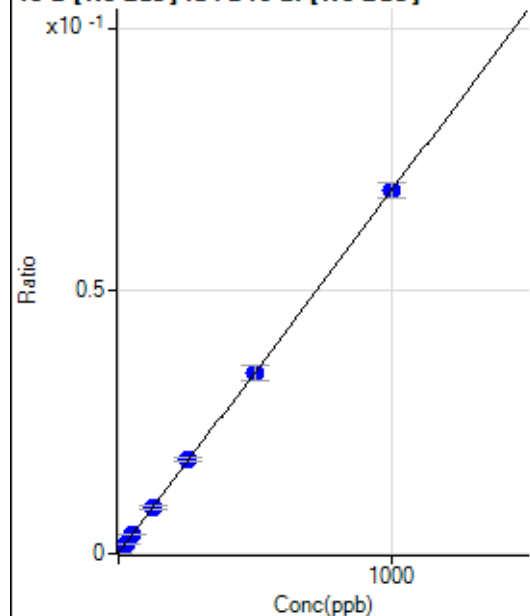
$$R = 0.9999$$

$$DL = 0.0262$$

Weight: <None>

Min Conc: 0

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	238.90	0.0001	P	13.7
2	☐	25.000	24.402	6737.72	0.0017	P	3.0
3	☐	50.000	50.749	13714.70	0.0036	P	2.9
4	☐	125.000	124.680	33464.40	0.0087	P	7.3
5	☐	250.000	258.969	67248.94	0.0179	P	3.3
6	☐	500.000	496.553	129701.30	0.0344	P	8.2
7	☐	1000.000	999.498	251702.41	0.0691	P	4.1
8	☐			5995.77	0.0017	P	13.9

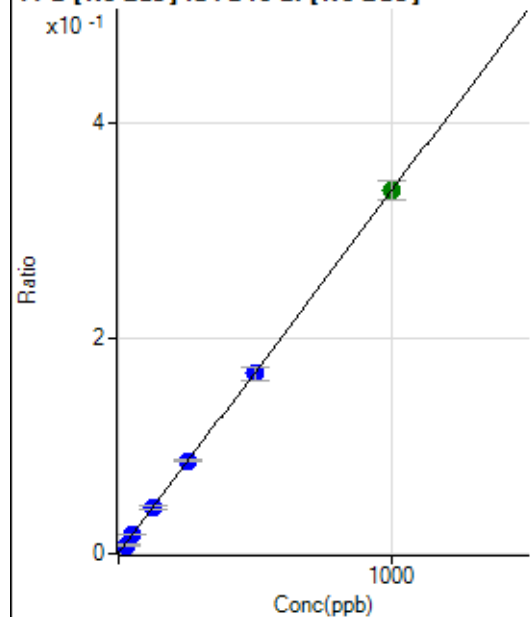
$$y = 6.9073\text{E-}005 * x + 6.1541\text{E-}005$$

$$R = 0.9999$$

$$DL = 0.3675$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1394.54	0.0004	P	7.8
2	☐	25.000	22.718	30814.62	0.0080	P	2.9
3	☐	50.000	51.734	68189.20	0.0177	P	2.4
4	☐	125.000	126.181	164915.07	0.0427	P	6.6
5	☐	250.000	256.117	323680.43	0.0864	P	3.2
6	☐	500.000	496.773	631340.65	0.1672	P	7.4
7	☐	1000.000	999.907	1224538.37	0.3362	A	5.4
8	☐			28972.10	0.0084	P	7.8

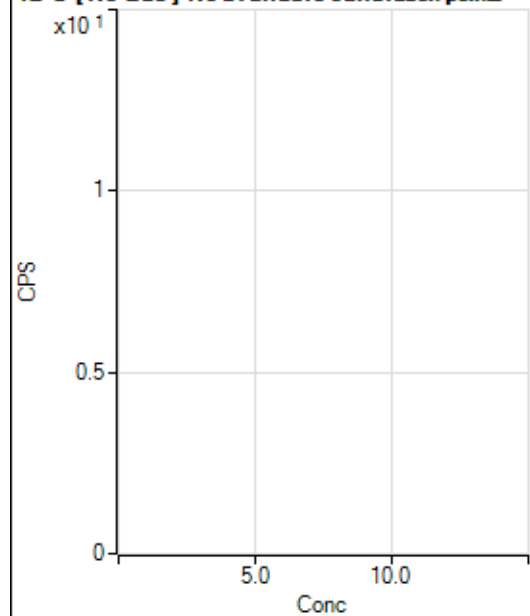
$$y = 3.3589E-004 * x + 3.5918E-004$$

$$R = 1.0000$$

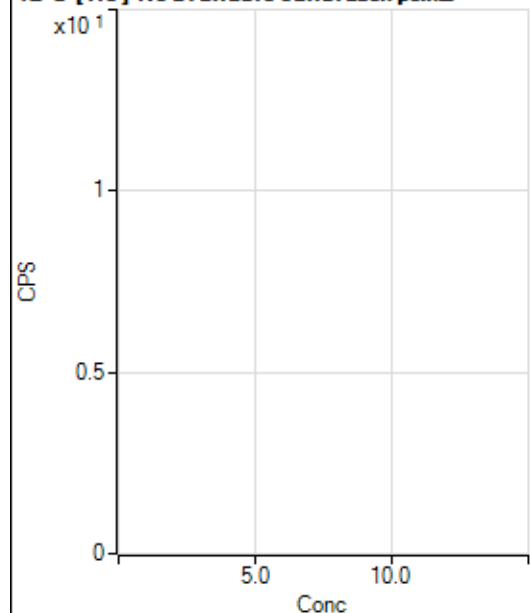
$$DL = 0.2505$$

Weight: <None>

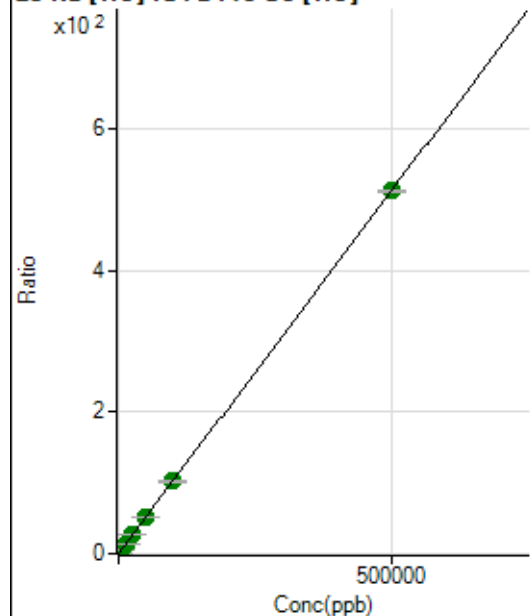
Min Conc: 0

12 C [No Gas] No available calibration points

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

12 C [He] No available calibration points

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

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	51162.70	0.0707	P	1.7
2	☐	500.000	495.361	418627.98	0.5777	P	1.3
3	☐	5000.000	5253.531	3926555.15	5.4482	A	0.3
4	☐	12500.000	13063.955	9631486.56	13.4428	A	1.8
5	☐	25000.000	25707.870	18669242.78	26.3850	A	0.9
6	☐	50000.000	50839.447	37392163.80	52.1095	A	1.6
7	☐	100000.00	99766.753	72811117.37	102.1910	A	0.9
8	☐	500000.00	499910.68	360967467.3	511.7745	A	0.4

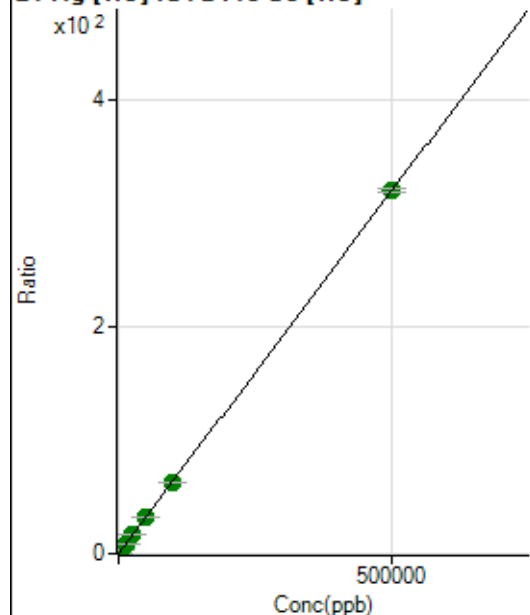
$$y = 0.0010 * x + 0.0707$$

$$R = 1.0000$$

$$DL = 3.435$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1040.79	0.0014	P	5.5
2	☐	500.000	484.556	225199.18	0.3108	P	0.6
3	☐	5000.000	5275.785	2428427.37	3.3696	A	0.7
4	☐	12500.000	12930.708	5915793.13	8.2565	A	0.9
5	☐	25000.000	25639.091	11583112.53	16.3697	A	0.3
6	☐	50000.000	49994.640	22904352.60	31.9186	A	0.8
7	☐	100000.00	98383.543	44752601.93	62.8106	A	0.1
8	☐	500000.00	500278.36	225272453.1	319.3846	A	0.9

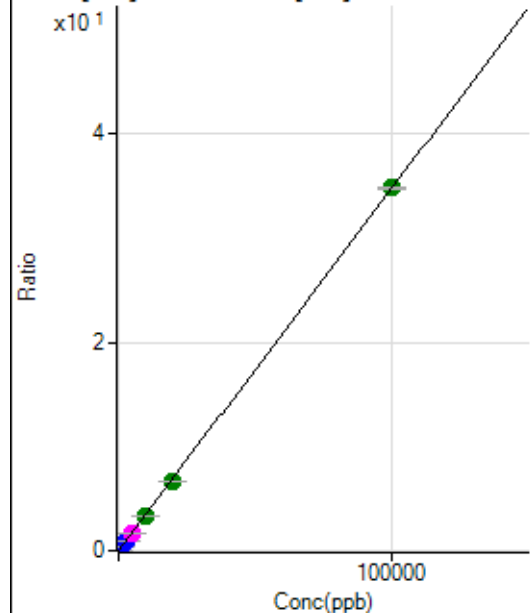
$$y = 6.3841\text{E-}004 * x + 0.0014$$

$$R = 1.0000$$

$$DL = 0.3707$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	140.74	0.0002	P	2.0
2	☐	20.000	20.251	5236.16	0.0072	P	4.5
3	☐	1000.000	1011.488	253235.35	0.3514	P	0.9
4	☐	2500.000	2491.976	620015.68	0.8653	P	0.9
5	☐	5000.000	4956.354	1217721.76	1.7209	M	0.6
6	☐	10000.000	9758.152	2431193.66	3.3880	A	0.5
7	☐	20000.000	19112.489	4727825.92	6.6355	A	0.6
8	☐	100000.00	100203.95	24536747.77	34.7884	A	0.4

$$y = 3.4717\text{E-}004 * x + 1.9446\text{E-}004$$

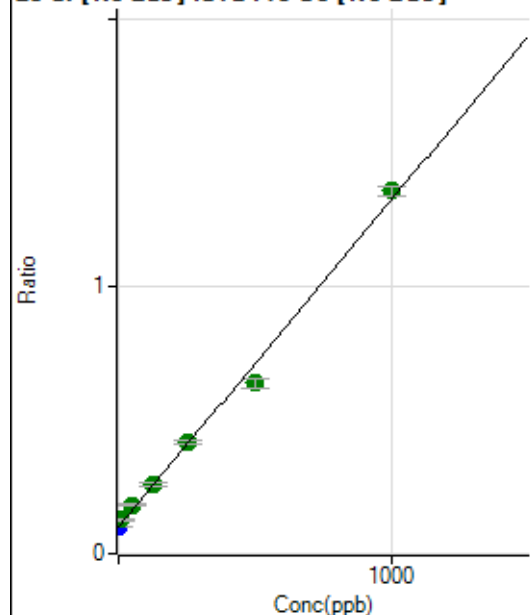
$$R = 1.0000$$

$$DL = 0.03368$$

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	950083.53	0.1005	P	1.2
2	☐	10.000	21.030	1205677.09	0.1262	A	2.1
3	☐	50.000	66.831	1726146.24	0.1823	A	2.4
4	☐	125.000	131.651	2477779.87	0.2616	A	5.1
5	☐	250.000	258.594	3782683.03	0.4170	A	3.1
6	☐	500.000	438.406	6075163.55	0.6371	A	5.8
7	☐	1000.000	1026.865	12766644.99	1.3573	A	2.7
8	☐			1717080.85	0.1825	A	4.7

$$y = 0.0012 * x + 0.1005$$

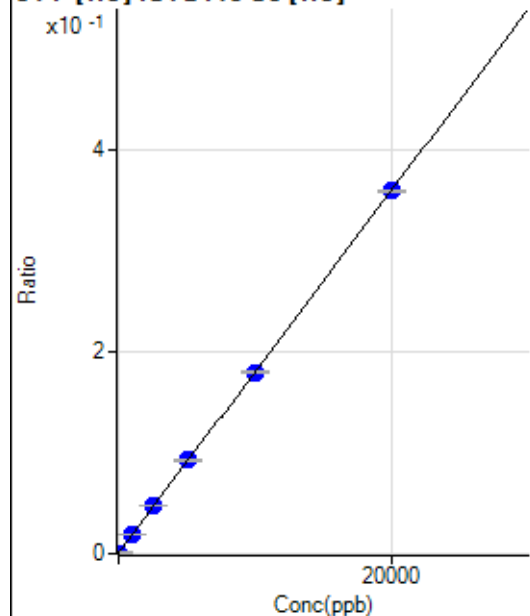
$$R = 0.9968$$

$$DL = 2.914$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	-10.519	377.79	0.0005	P	29.0
2	☐	0.000	10.519	652.81	0.0009	P	13.6
3	☐	1000.000	1045.261	14045.71	0.0195	P	3.7
4	☐	2500.000	2627.691	34333.59	0.0479	P	0.3
5	☐	5000.000	5110.942	65462.73	0.0925	P	2.7
6	☐	10000.000	9963.730	128959.37	0.1797	P	0.8
7	☐	20000.000	19972.175	256139.22	0.3595	P	0.6
8	☐			538.91	0.0008	P	10.4

$$y = 1.7964E-005 * x + 7.1155E-004$$

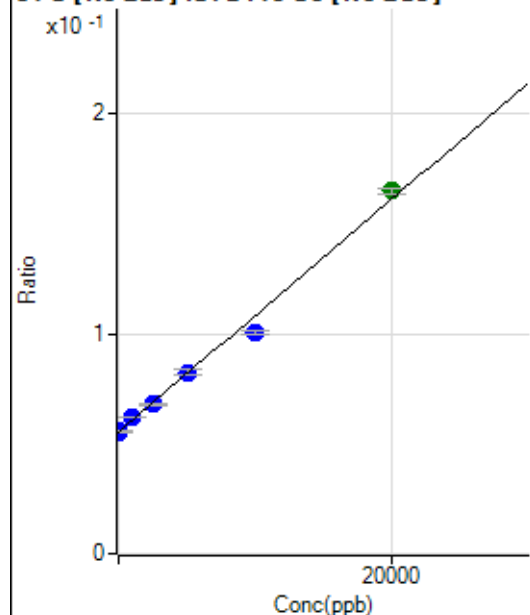
$$R = 1.0000$$

$$DL = 22.87$$

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	14.319	524804.34	0.0555	P	1.1
2	☐	0.000	-14.319	528803.25	0.0554	P	1.7
3	☐	1000.000	1184.480	584239.03	0.0617	P	0.1
4	☐	2500.000	2369.822	643842.97	0.0680	P	1.5
5	☐	5000.000	5120.390	747880.30	0.0825	P	2.4
6	☐	10000.000	8534.213	959039.66	0.1005	P	2.2
7	☐	20000.000	20709.844	1550744.65	0.1649	A	1.3
8	☐			445952.53	0.0474	P	3.9

$$y = 5.2831\text{E-}006 * x + 0.0554$$

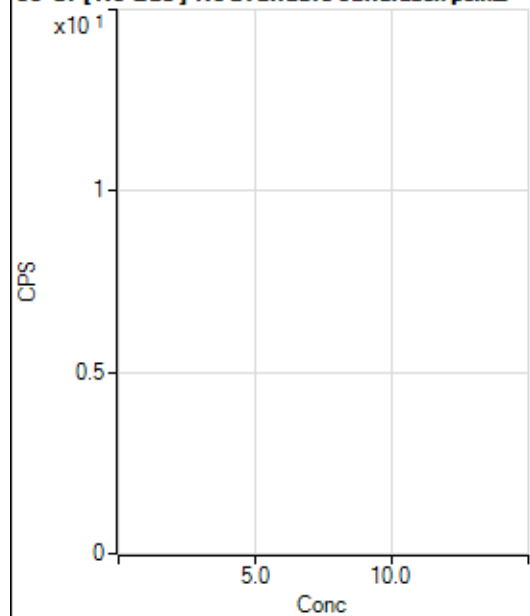
$$R = 0.9960$$

$$DL = 437.6$$

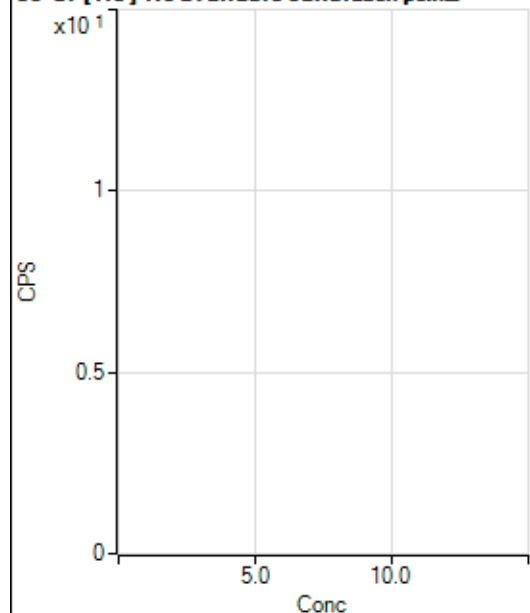
Weight: <None>

Min Conc: 0

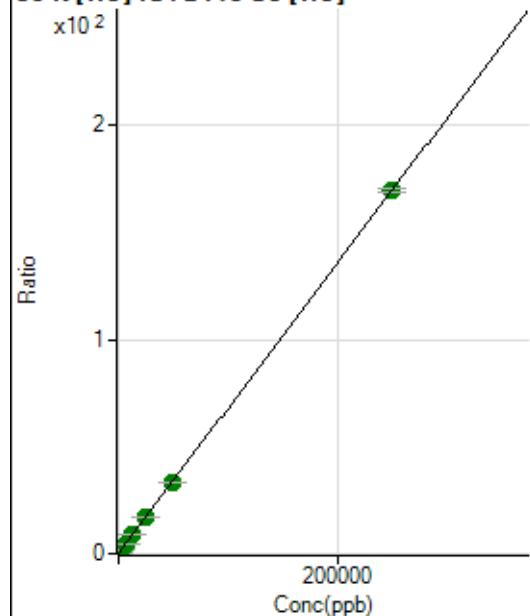
35 Cl [No Gas] No available calibration points



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

35 Cl [He] No available calibration points

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

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	102614.47	0.1418	P	0.7
2	☐	500.000	513.822	354927.29	0.4898	P	1.2
3	☐	2500.000	2578.391	1360876.29	1.8883	A	0.6
4	☐	6250.000	6320.400	3169153.59	4.4230	A	1.2
5	☐	12500.000	12616.570	6147289.59	8.6877	A	0.6
6	☐	25000.000	24680.534	12098164.77	16.8594	A	0.6
7	☐	50000.000	49336.544	23911750.53	33.5604	A	0.7
8	☐	250000.00	250156.23	119614505.4	169.5877	A	1.1

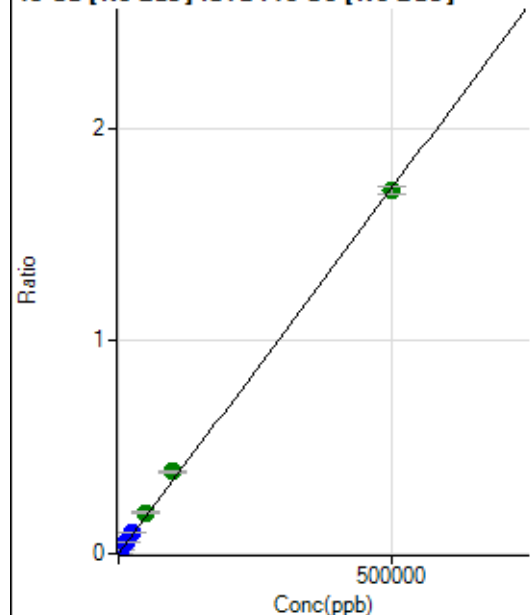
$$y = 6.7736E-004 * x + 0.1418$$

$$R = 1.0000$$

$$DL = 4.606$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	197.23	0.0000	P	27.6
2	☐	500.000	496.351	16481.50	0.0017	P	3.0
3	☐	5000.000	6002.713	195441.62	0.0206	P	1.4
4	☐	12500.000	14699.622	478515.89	0.0505	P	3.0
5	☐	25000.000	30020.678	935211.21	0.1031	P	1.5
6	☐	50000.000	55529.280	1819431.81	0.1908	A	5.0
7	☐	100000.00	111911.43	3616072.17	0.3845	A	2.3
8	☐	500000.00	496748.73	16059868.59	1.7064	A	2.1

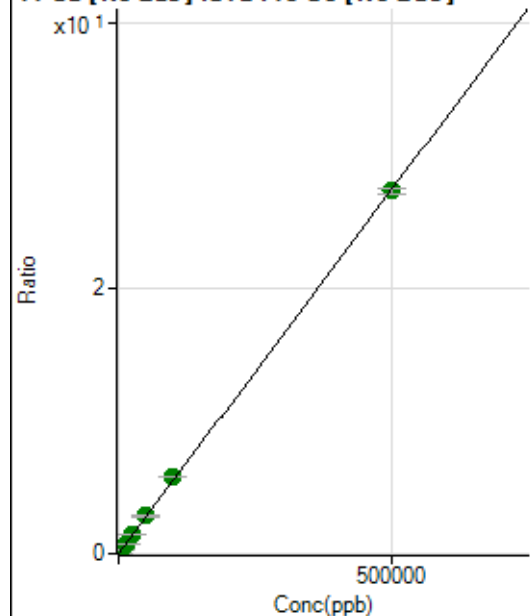
$$y = 3.4352\text{E-}006 * x + 2.0891\text{E-}005$$

$$R = 0.9997$$

$$DL = 5.035$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	11225.08	0.0012	P	2.3
2	☐	500.000	495.378	270563.90	0.0283	P	1.1
3	☐	5000.000	5418.744	2821762.32	0.2980	A	0.7
4	☐	12500.000	13343.033	6934417.63	0.7321	A	3.5
5	☐	25000.000	26938.709	13390046.01	1.4768	A	1.3
6	☐	50000.000	51657.682	26998796.50	2.8308	A	4.6
7	☐	100000.00	105243.62	54241012.08	5.7661	A	1.4
8	☐	500000.00	498663.31	257094839.3	27.3162	A	1.6

$$y = 5.4776\text{E-}005 * x + 0.0012$$

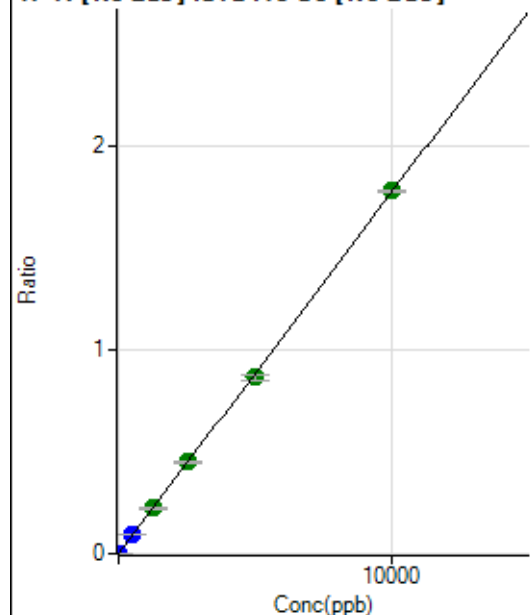
$$R = 0.9999$$

$$DL = 1.474$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	191.67	0.0000	P	8.8
2	☐	5.000	4.314	7496.45	0.0008	P	2.0
3	☐	500.000	511.556	858647.39	0.0907	P	1.6
4	☐	1250.000	1257.175	2110613.80	0.2228	A	3.9
5	☐	2500.000	2546.070	4091535.99	0.4513	A	1.4
6	☐	5000.000	4874.693	8240238.72	0.8640	A	4.2
7	☐	10000.000	10049.662	16755274.68	1.7811	A	0.8
8	☐			4725.88	0.0005	P	5.0

$$y = 1.7723\text{E-}004 * x + 2.0277\text{E-}005$$

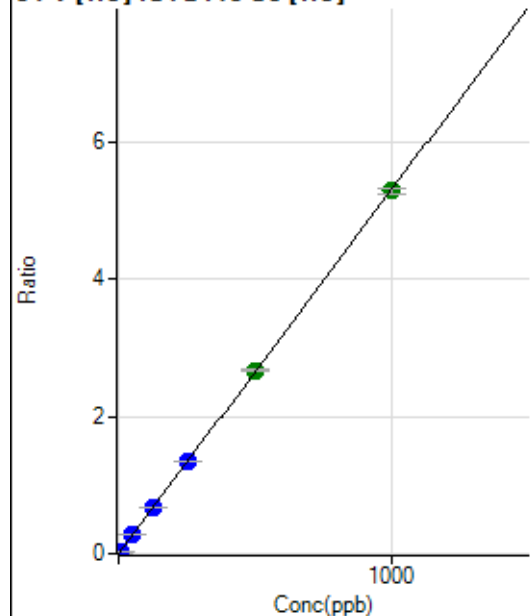
$$R = 0.9999$$

$$DL = 0.03023$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	12.22	0.0000	P	78.3
2	☐	5.000	4.824	18544.81	0.0256	P	1.9
3	☐	50.000	51.271	195912.71	0.2718	P	0.6
4	☐	125.000	127.375	483872.34	0.6753	P	0.5
5	☐	250.000	253.766	951988.47	1.3454	P	0.5
6	☐	500.000	503.916	1917202.20	2.6716	A	0.6
7	☐	1000.000	996.741	3765104.84	5.2844	A	1.8
8	☐			1711.22	0.0024	P	1.4

$$y = 0.0053 * x + 1.6852\text{E-}005$$

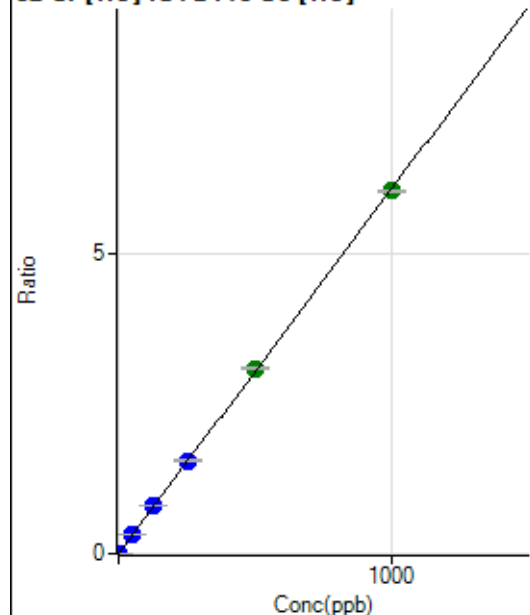
$$R = 1.0000$$

$$DL = 0.007462$$

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	1364.52	0.0019	P	3.1
2	☐	2.000	2.035	10313.61	0.0142	P	1.5
3	☐	50.000	52.222	229760.16	0.3188	P	0.6
4	☐	125.000	129.446	564222.97	0.7875	P	0.5
5	☐	250.000	254.168	1092737.20	1.5444	P	1.2
6	☐	500.000	506.804	2208407.97	3.0775	A	1.3
7	☐	1000.000	994.889	4303210.14	6.0396	A	0.8
8	☐			36360.48	0.0516	P	0.3

$$y = 0.0061 * x + 0.0019$$

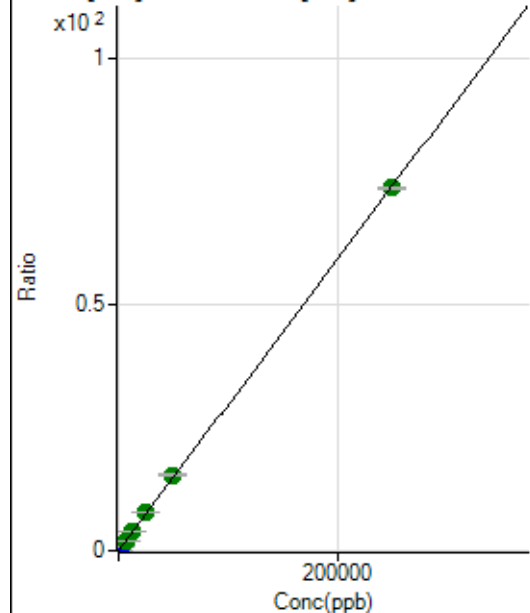
$$R = 1.0000$$

$$DL = 0.02921$$

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	2088.97	0.0029	P	1.9
2	☐	50.000	53.567	13536.63	0.0187	P	4.0
3	☐	2500.000	2816.279	600615.86	0.8334	P	1.1
4	☐	6250.000	6709.218	1419730.92	1.9814	A	2.0
5	☐	12500.000	13347.160	2787166.65	3.9390	A	1.0
6	☐	25000.000	26317.888	5571653.23	7.7641	A	0.5
7	☐	50000.000	51975.363	10922913.26	15.3305	A	1.5
8	☐	250000.00	249416.13	51880028.62	73.5561	A	0.6

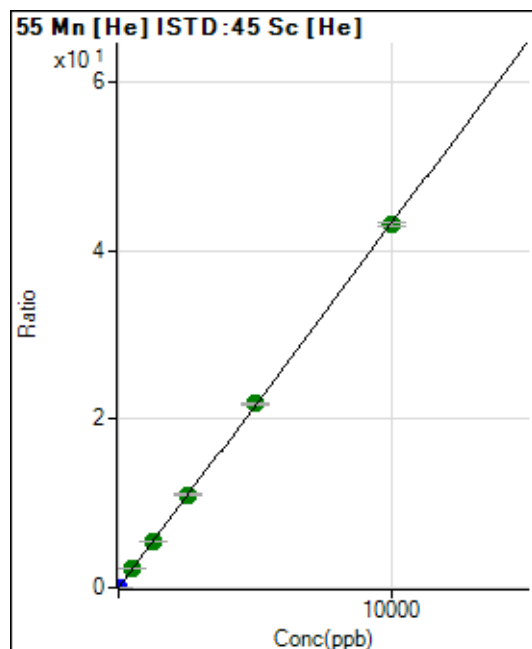
$$y = 2.9490E-004 * x + 0.0029$$

$$R = 1.0000$$

$$DL = 0.5707$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	226.67	0.0003	P	14.8
2	☐	1.000	1.014	3407.08	0.0047	P	2.3
3	☐	500.000	521.710	1627152.49	2.2579	A	1.6
4	☐	1250.000	1284.520	3982949.14	5.5587	A	0.4
5	☐	2500.000	2559.471	7837057.38	11.0757	A	1.4
6	☐	5000.000	5045.938	15668718.52	21.8352	A	0.8
7	☐	10000.000	9956.763	30698441.76	43.0855	A	1.0
8	☐			42644.73	0.0605	P	1.3

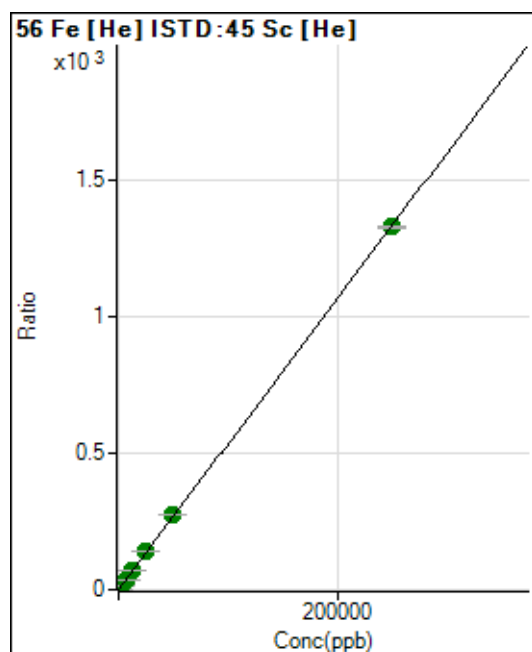
$$y = 0.0043 * x + 3.1341E-004$$

$$R = 1.0000$$

$$DL = 0.03218$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	14712.95	0.0203	P	3.6
2	☐	50.000	50.887	211161.82	0.2914	P	1.0
3	☐	2500.000	2690.998	10345927.43	14.3557	A	1.0
4	☐	6250.000	6657.438	25426550.34	35.4856	A	0.3
5	☐	12500.000	13124.386	49485515.00	69.9361	A	0.6
6	☐	25000.000	25954.740	99230135.55	138.2855	A	1.2
7	☐	50000.000	51285.673	194674319.1	273.2275	A	1.1
8	☐	250000.00	249604.07	937873909.8	1,329.702	A	0.8

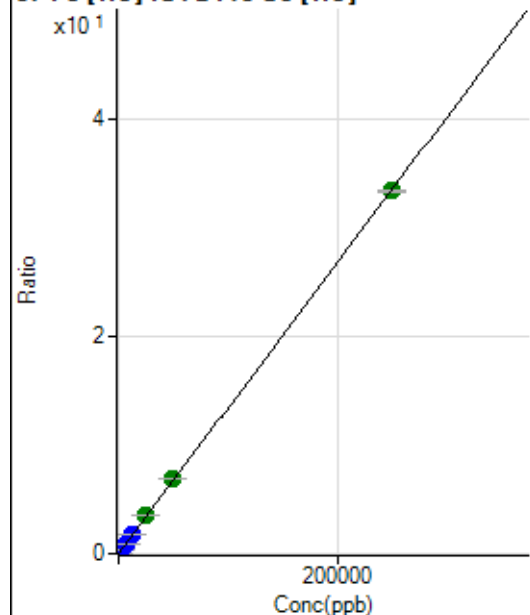
$$y = 0.0053 * x + 0.0203$$

$$R = 1.0000$$

$$DL = 0.417$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	929.68	0.0013	P	10.1
2	☐	50.000	49.898	5777.12	0.0080	P	4.3
3	☐	2500.000	2737.086	265276.87	0.3681	P	0.8
4	☐	6250.000	6694.993	643784.33	0.8985	P	0.9
5	☐	12500.000	13259.669	1258232.33	1.7783	P	1.2
6	☐	25000.000	25932.989	2494816.03	3.4767	A	1.0
7	☐	50000.000	51280.707	4897426.73	6.8736	A	0.3
8	☐	250000.00	249599.08	23593992.66	33.4509	A	0.8

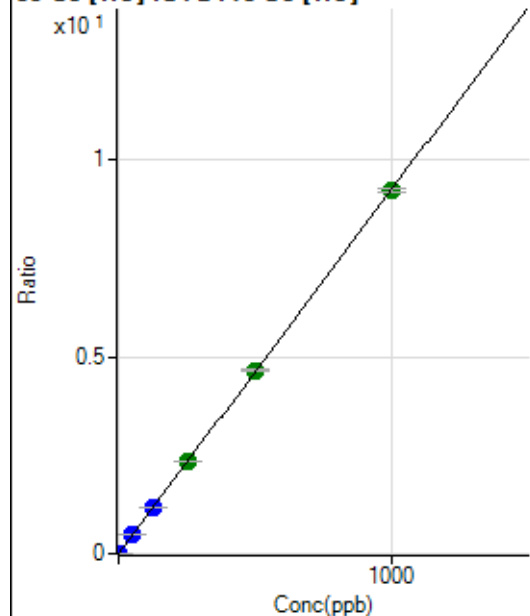
$$y = 1.3401\text{E-}004 * x + 0.0013$$

$$R = 1.0000$$

$$DL = 2.895$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	71.11	0.0001	P	14.7
2	☐	1.000	0.998	6758.25	0.0093	P	1.8
3	☐	50.000	52.149	347418.39	0.4821	P	1.0
4	☐	125.000	128.215	849143.05	1.1851	P	0.3
5	☐	250.000	255.185	1668909.98	2.3586	A	0.7
6	☐	500.000	503.278	3337819.81	4.6515	A	1.2
7	☐	1000.000	996.556	6562477.19	9.2105	A	1.2
8	☐			6869.42	0.0097	P	1.2

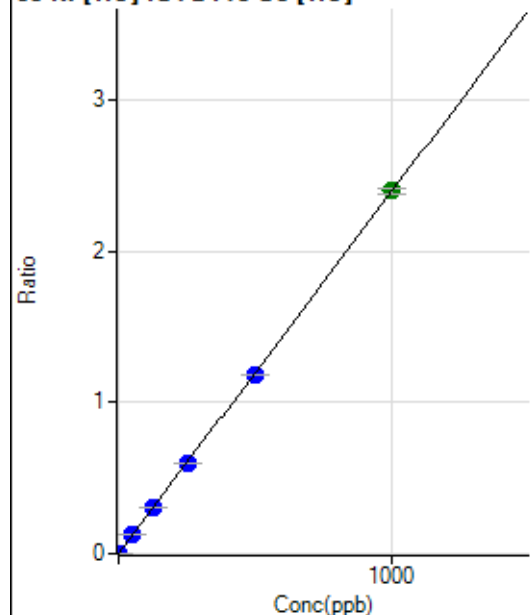
$$y = 0.0092 * x + 9.8224\text{E-}005$$

$$R = 1.0000$$

$$DL = 0.004696$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	554.46	0.0008	P	4.5
2	☐	1.000	1.047	2369.10	0.0033	P	4.6
3	☐	50.000	52.372	90803.85	0.1260	P	1.2
4	☐	125.000	128.630	220928.66	0.3083	P	0.6
5	☐	250.000	250.167	423794.06	0.5990	P	1.3
6	☐	500.000	493.939	848075.00	1.1819	P	1.0
7	☐	1000.000	1002.416	1708345.75	2.3977	A	1.8
8	☐			9267.36	0.0131	P	2.2

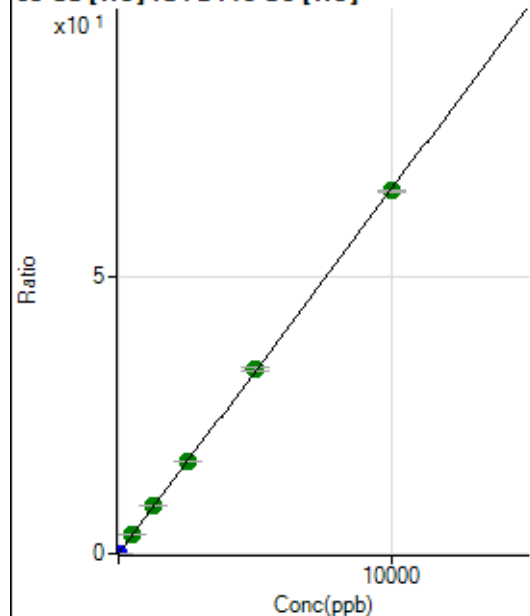
$$y = 0.0024 * x + 7.6606E-004$$

$$R = 1.0000$$

$$DL = 0.04342$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	1246.73	0.0017	P	2.7
2	☐	2.000	1.999	10753.95	0.0148	P	0.5
3	☐	500.000	535.976	2535784.37	3.5187	A	1.2
4	☐	1250.000	1310.239	6161283.17	8.5992	A	1.0
5	☐	2500.000	2544.056	11812995.52	16.6951	A	0.9
6	☐	5000.000	5060.694	23830211.87	33.2086	A	1.2
7	☐	10000.000	9949.310	46516543.20	65.2864	A	0.4
8	☐			17059.81	0.0242	P	2.7

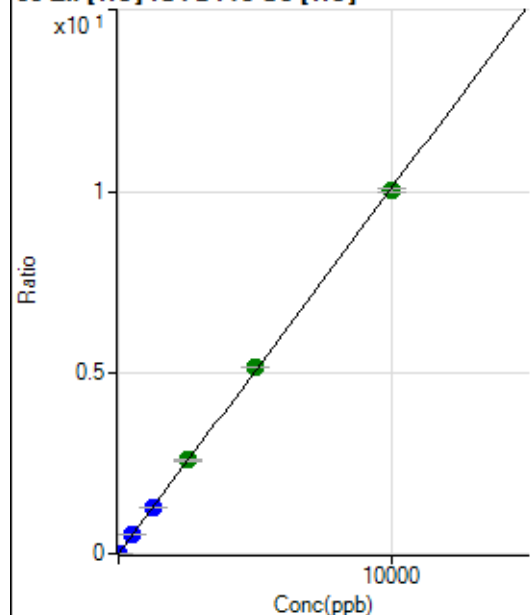
$$y = 0.0066 * x + 0.0017$$

$$R = 1.0000$$

$$DL = 0.02089$$

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	1320.07	0.0018	P	7.6
2	☐	2.000	2.047	2818.07	0.0039	P	6.9
3	☐	500.000	518.108	377885.24	0.5243	P	1.1
4	☐	1250.000	1273.406	921469.95	1.2861	P	1.2
5	☐	2500.000	2558.771	1827234.56	2.5824	A	1.2
6	☐	5000.000	5108.131	3698120.15	5.1535	A	0.6
7	☐	10000.000	9927.410	7134860.03	10.0139	A	1.1
8	☐			11950.44	0.0169	P	1.3

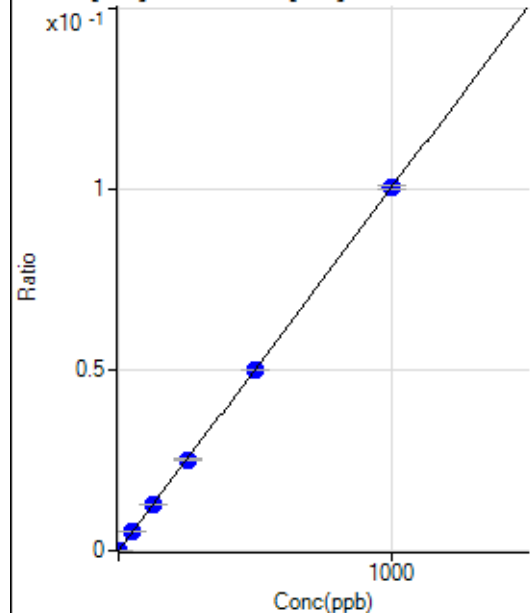
$$y = 0.0010 * x + 0.0018$$

$$R = 0.9999$$

$$DL = 0.4146$$

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	3.09	0.0000	P	68.8
2	☐	1.000	1.109	558.04	0.0001	P	2.7
3	☐	50.000	51.333	25366.07	0.0052	P	0.9
4	☐	125.000	128.551	62778.64	0.0129	P	0.5
5	☐	250.000	251.606	122521.04	0.0253	P	0.4
6	☐	500.000	498.988	250075.85	0.0502	P	0.6
7	☐	1000.000	999.594	494795.38	0.1005	P	1.0
8	☐			319.14	0.0001	P	2.7

$$y = 1.0050E-004 * x + 6.2383E-007$$

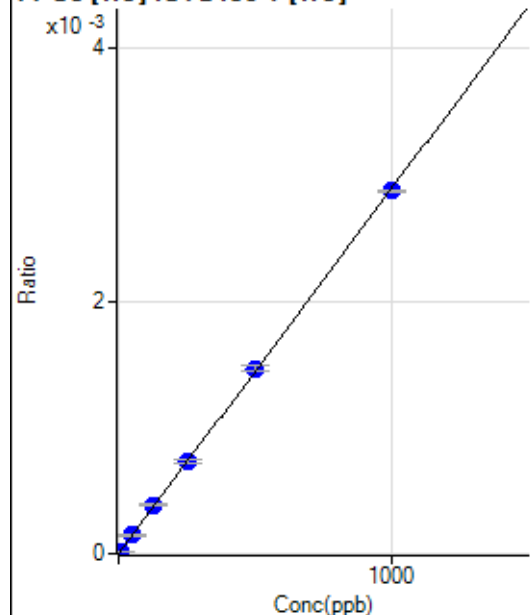
$$R = 1.0000$$

$$DL = 0.01281$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	0.00	0.0000	P	
2	☐	5.000	5.105	73.33	0.0000	P	30.0
3	☐	50.000	51.101	725.58	0.0001	P	4.3
4	☐	125.000	133.106	1866.81	0.0004	P	3.4
5	☐	250.000	253.389	3544.90	0.0007	P	3.9
6	☐	500.000	507.755	7308.54	0.0015	P	3.4
7	☐	1000.000	994.207	14137.99	0.0029	P	0.3
8	☐			6.67	0.0000	P	99.8

$$y = 2.8870\text{E-}006 * x + 0.0000\text{E+}000$$

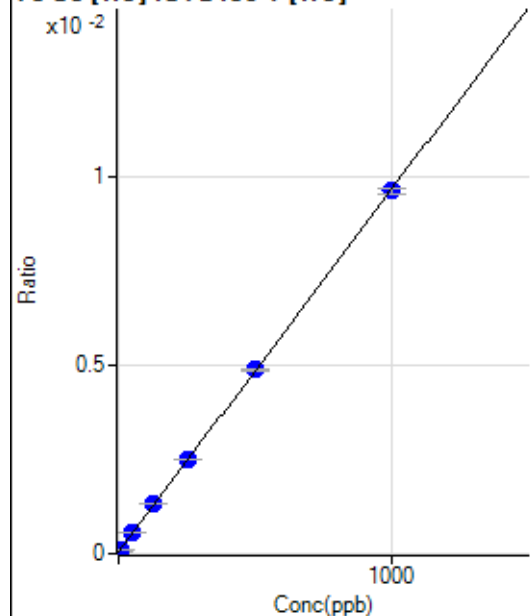
$$R = 0.9999$$

$$DL = 0$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	222.22	0.0000	P	2.3
2	☐	5.000	5.266	476.55	0.0001	P	4.9
3	☐	50.000	53.311	2745.33	0.0006	P	0.6
4	☐	125.000	132.166	6402.03	0.0013	P	1.8
5	☐	250.000	255.690	12147.60	0.0025	P	0.6
6	☐	500.000	502.783	24366.92	0.0049	P	0.8
7	☐	1000.000	996.124	47461.93	0.0096	P	1.7
8	☐			248.77	0.0001	P	5.0

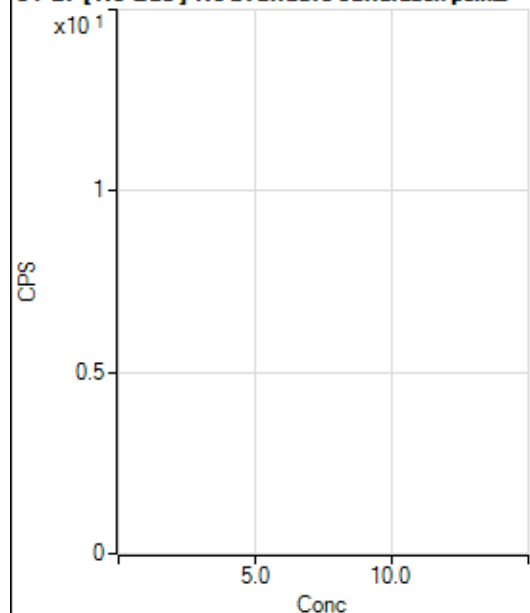
$$y = 9.6298\text{E-}006 * x + 4.5026\text{E-}005$$

$$R = 1.0000$$

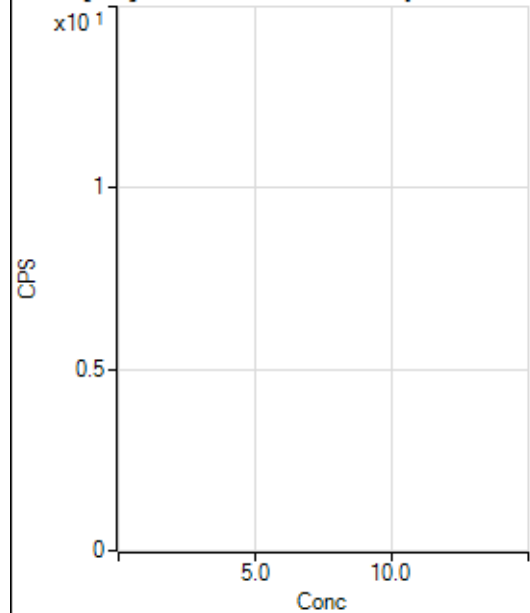
$$DL = 0.3241$$

Weight: <None>

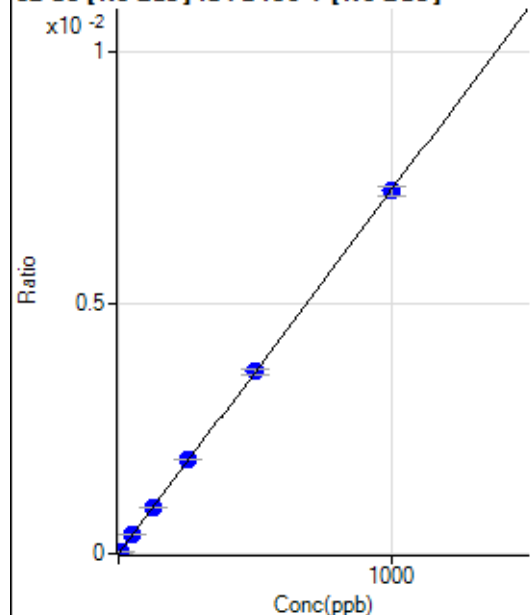
Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			17702.74		P	1.4
2	☐			18167.17		P	1.2
3	☐			18403.65		P	3.2
4	☐			18347.96		P	1.1
5	☐			17722.12		P	2.2
6	☐			17928.07		P	1.8
7	☐			19023.79		P	1.4
8	☐			20325.61		P	4.8

81 Br [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			30.03		P	57.7
2	☐			33.37		P	86.6
3	☐			53.39		P	57.3
4	☐			60.06		P	0.0
5	☐			36.70		P	15.7
6	☐			73.41		P	7.9
7	☐			43.38		P	13.3
8	☐			70.07		P	51.5

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	27.78	0.0000	P	167.
2	☐	5.000	5.047	828.85	0.0000	P	0.9
3	☐	50.000	52.702	8419.23	0.0004	P	1.0
4	☐	125.000	127.741	20638.83	0.0009	P	2.1
5	☐	250.000	257.142	40294.93	0.0019	P	0.2
6	☐	500.000	499.754	81708.96	0.0036	P	4.1
7	☐	1000.000	997.859	162860.11	0.0072	P	2.9
8	☐			158.60	0.0000	P	6.7

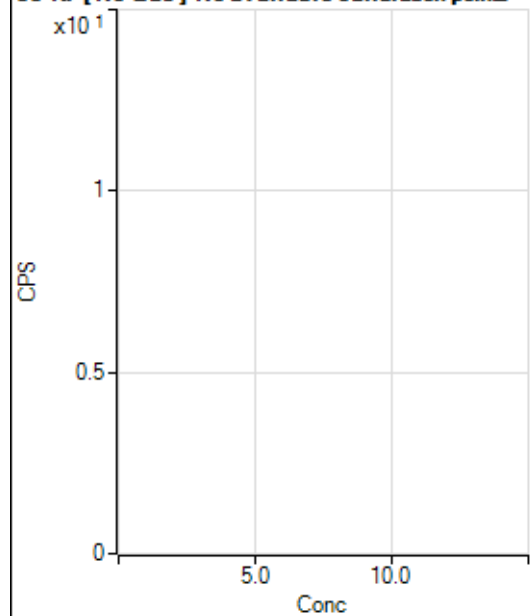
$$y = 7.2445E-006 * x + 1.2745E-006$$

$$R = 1.0000$$

$$DL = 0.8825$$

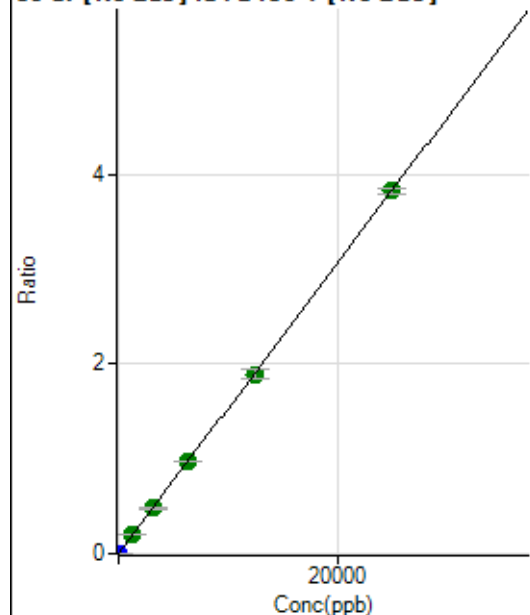
Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			272.23		P	16.3
2	☐			255.56		P	7.2
3	☐			272.23		P	8.7
4	☐			257.78		P	6.5
5	☐			238.89		P	14.3
6	☐			295.56		P	11.1
7	☐			321.12		P	14.4
8	☐			331.12		P	8.2

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	516.69	0.0000	P	4.6
2	☐	1.000	0.902	3533.85	0.0002	P	1.3
3	☐	1250.000	1289.350	4328948.53	0.1970	A	0.6
4	☐	3125.000	3142.750	10691253.71	0.4800	A	2.6
5	☐	6250.000	6381.969	21071172.35	0.9748	A	0.7
6	☐	12500.000	12385.794	42671391.58	1.8918	A	5.6
7	☐	25000.000	25019.924	86094563.03	3.8216	A	1.7
8	☐			32678.56	0.0015	P	4.9

$$y = 1.5274E-004 * x + 2.3623E-005$$

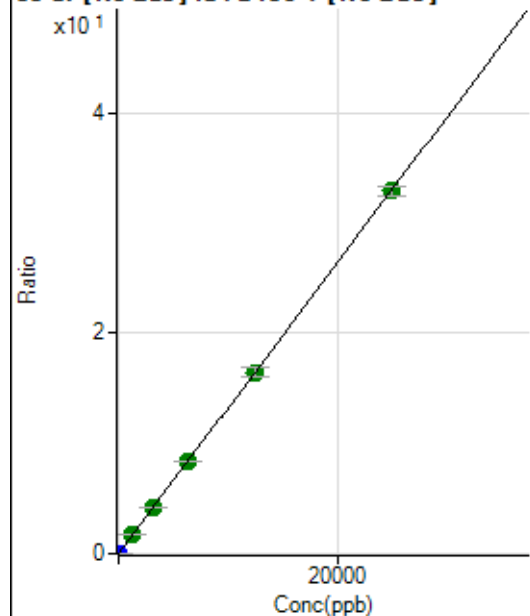
$$R = 1.0000$$

$$DL = 0.02119$$

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	291.68	0.0000	P	26.8
2	☐	1.000	0.939	27401.07	0.0013	P	4.7
3	☐	1250.000	1289.798	37357707.43	1.6997	A	0.3
4	☐	3125.000	3163.949	92860649.99	4.1695	A	2.1
5	☐	6250.000	6393.945	182137670.7	8.4260	A	0.6
6	☐	12500.000	12473.284	370795780.5	16.4375	A	4.9
7	☐	25000.000	24970.513	741290049.9	32.9065	A	2.3
8	☐			281901.36	0.0130	P	3.4

$$y = 0.0013 * x + 1.3313E-005$$

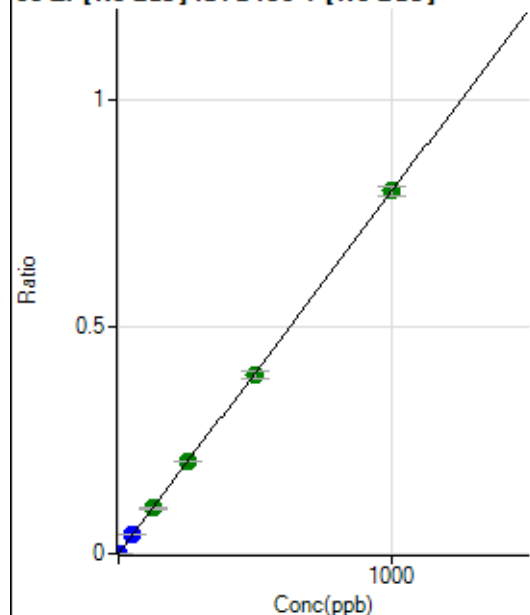
$$R = 1.0000$$

$$DL = 0.008137$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	913.94	0.0000	P	2.9
2	☐	1.000	0.941	17388.46	0.0008	P	2.3
3	☐	50.000	50.847	893954.21	0.0407	P	0.9
4	☐	125.000	125.243	2229765.70	0.1001	A	2.0
5	☐	250.000	256.216	4426545.59	0.2048	A	0.8
6	☐	500.000	493.176	8891008.71	0.3941	A	4.8
7	☐	1000.000	1001.785	18031801.62	0.8005	A	2.9
8	☐			10034.26	0.0005	P	4.3

$$y = 7.9906\text{E-}004 * x + 4.1779\text{E-}005$$

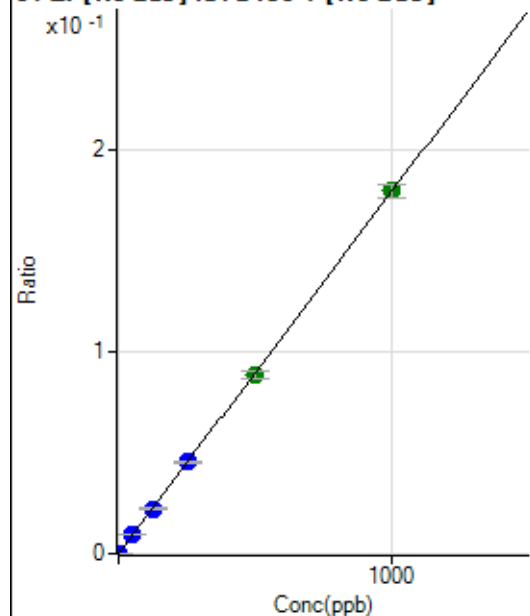
$$R = 0.9999$$

$$DL = 0.004494$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	166.67	0.0000	P	17.9
2	☐	1.000	0.910	3742.24	0.0002	P	4.4
3	☐	50.000	50.678	199809.35	0.0091	P	0.4
4	☐	125.000	123.813	494401.01	0.0222	P	3.1
5	☐	250.000	252.614	978922.50	0.0453	P	0.9
6	☐	500.000	493.510	1995586.46	0.0885	A	4.7
7	☐	1000.000	1002.706	4047920.10	0.1797	A	3.6
8	☐			2141.88	0.0001	P	1.1

$$y = 1.7923\text{E-}004 * x + 7.6229\text{E-}006$$

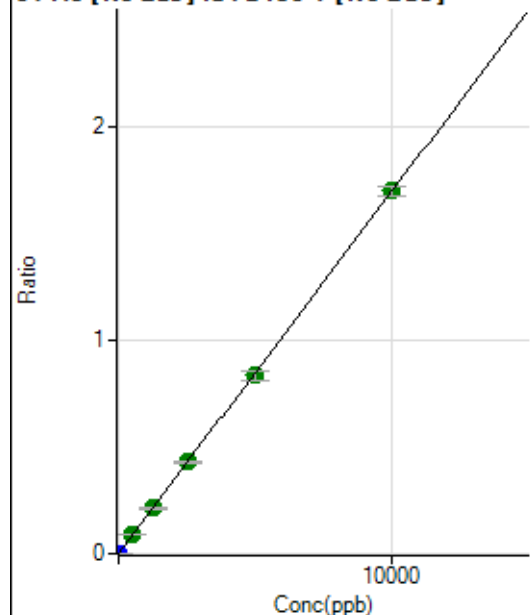
$$R = 1.0000$$

$$DL = 0.02279$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	263.90	0.0000	P	11.7
2	☐	5.000	5.362	20144.76	0.0009	P	1.9
3	☐	500.000	513.477	1910544.92	0.0869	A	2.2
4	☐	1250.000	1254.017	4727172.37	0.2123	A	2.7
5	☐	2500.000	2536.576	9280679.29	0.4293	A	1.4
6	☐	5000.000	4932.447	18831242.95	0.8348	A	5.3
7	☐	10000.000	10023.456	38212603.63	1.6965	A	3.0
8	☐			15814.48	0.0007	P	4.8

$$y = 1.6925E-004 * x + 1.2059E-005$$

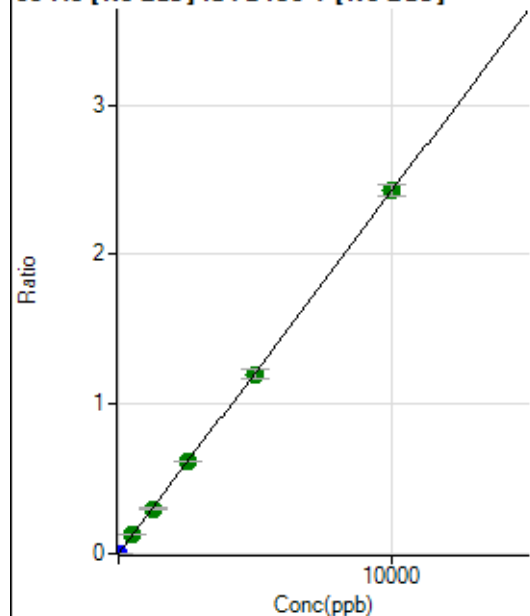
$$R = 1.0000$$

$$DL = 0.02491$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	33.34	0.0000	P	85.6
2	☐	5.000	4.580	24345.81	0.0011	P	1.4
3	☐	500.000	518.272	2759945.22	0.1256	A	1.8
4	☐	1250.000	1242.361	6703365.34	0.3010	A	3.1
5	☐	2500.000	2554.834	13379251.86	0.6190	A	0.7
6	☐	5000.000	4948.521	27041322.65	1.1989	A	5.7
7	☐	10000.000	10012.072	54635341.50	2.4256	A	3.1
8	☐			20921.01	0.0010	P	6.7

$$y = 2.4227E-004 * x + 1.5148E-006$$

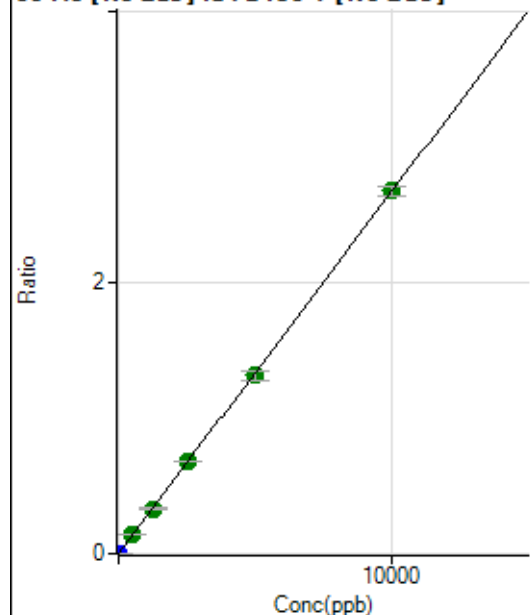
$$R = 1.0000$$

$$DL = 0.01605$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	97.23	0.0000	P	11.6
2	☐	5.000	4.578	26880.75	0.0012	P	1.4
3	☐	500.000	513.448	3013863.69	0.1371	A	1.1
4	☐	1250.000	1236.594	7354925.60	0.3302	A	3.1
5	☐	2500.000	2534.657	14632159.36	0.6769	A	0.6
6	☐	5000.000	4929.111	29693762.82	1.3164	A	5.1
7	☐	10000.000	10027.784	60321480.51	2.6780	A	2.9
8	☐			31336.95	0.0014	P	4.9

$$y = 2.6706E-004 * x + 4.4379E-006$$

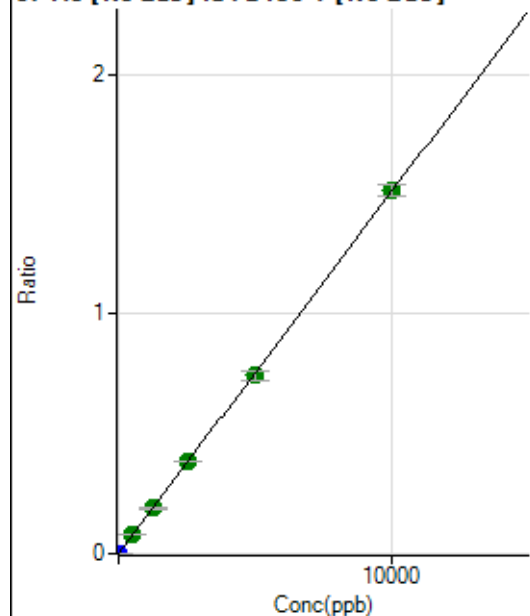
$$R = 1.0000$$

$$DL = 0.005799$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	19.45	0.0000	P	24.2
2	☐	5.000	4.413	14629.86	0.0007	P	4.1
3	☐	500.000	515.216	1710548.18	0.0778	A	0.4
4	☐	1250.000	1258.229	4232988.51	0.1901	A	2.4
5	☐	2500.000	2535.923	8280648.19	0.3831	A	0.8
6	☐	5000.000	4920.025	16764835.96	0.7432	A	5.1
7	☐	10000.000	10029.217	34123787.91	1.5150	A	3.1
8	☐			12992.22	0.0006	P	9.3

$$y = 1.5106E-004 * x + 8.8807E-007$$

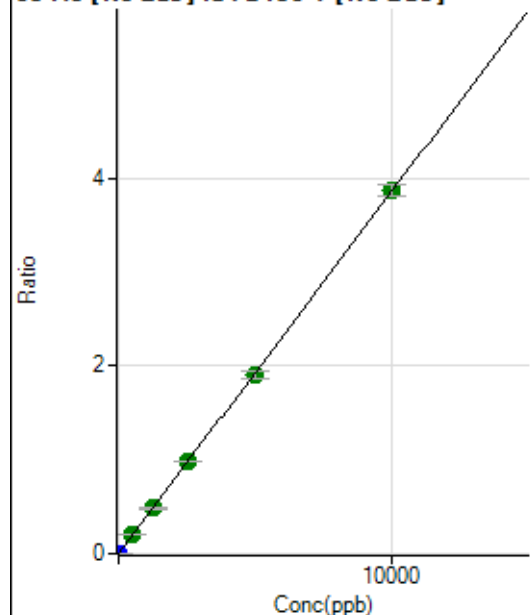
$$R = 0.9999$$

$$DL = 0.004264$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	47.22	0.0000	P	11.2
2	☐	5.000	4.444	37638.14	0.0017	P	2.2
3	☐	500.000	514.138	4363789.08	0.1985	A	0.8
4	☐	1250.000	1249.933	10749575.42	0.4827	A	2.3
5	☐	2500.000	2537.068	21177722.35	0.9797	A	0.9
6	☐	5000.000	4937.143	43009350.96	1.9065	A	4.5
7	☐	10000.000	10021.463	87164202.64	3.8698	A	3.2
8	☐			32876.66	0.0015	P	6.3

$$y = 3.8615E-004 * x + 2.1599E-006$$

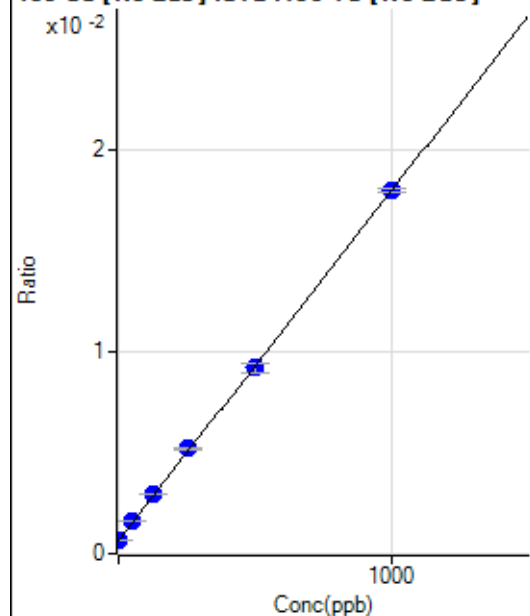
$$R = 1.0000$$

$$DL = 0.00188$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	9225.40	0.0006	P	1.3
2	☐	1.000	1.130	9458.88	0.0007	P	0.5
3	☐	50.000	54.092	22665.46	0.0016	P	1.1
4	☐	125.000	131.136	42510.07	0.0029	P	0.9
5	☐	250.000	262.298	74904.46	0.0052	P	1.1
6	☐	500.000	493.074	139133.96	0.0092	P	5.0
7	☐	1000.000	999.417	268069.78	0.0180	P	1.1
8	☐			9575.65	0.0007	P	2.0

$$y = 1.7326E-005 * x + 6.4965E-004$$

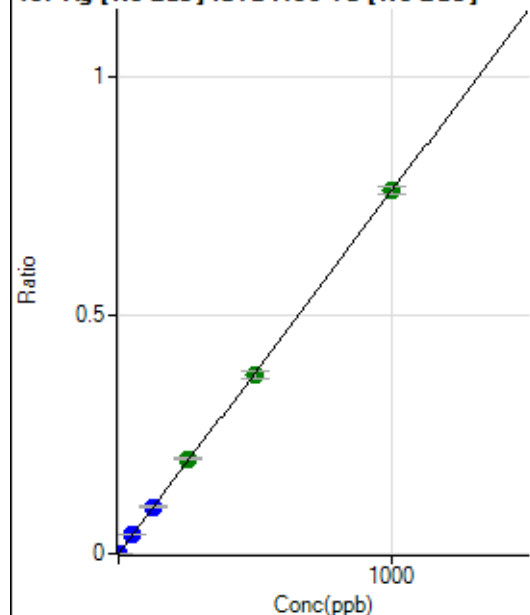
$$R = 0.9999$$

$$DL = 1.494$$

Weight: <None>

Min Conc: 0

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	119.45	0.0000	P	20.4
2	☐	1.000	0.824	8991.89	0.0006	P	11.3
3	☐	50.000	52.965	576025.77	0.0403	P	1.3
4	☐	125.000	128.451	1422673.60	0.0978	P	3.6
5	☐	250.000	262.486	2881032.16	0.1998	A	1.4
6	☐	500.000	491.351	5660852.91	0.3740	A	4.5
7	☐	1000.000	1000.623	11364209.54	0.7616	A	2.0
8	☐			6607.25	0.0005	P	4.4

$$y = 7.6116E-004 * x + 8.4152E-006$$

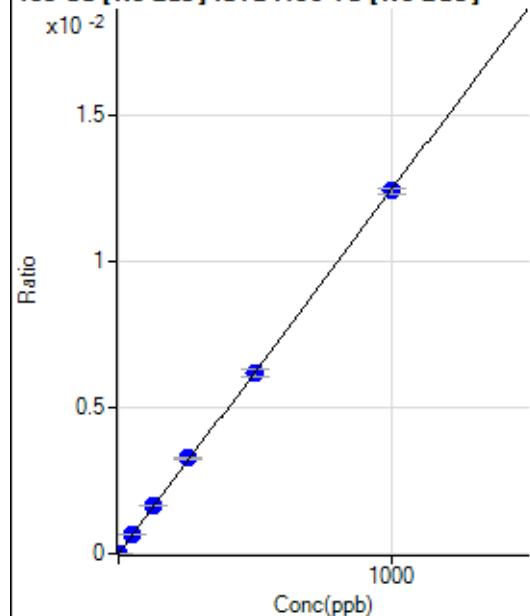
$$R = 0.9999$$

$$DL = 0.006781$$

Weight: <None>

Min Conc: 0

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	31.94	0.0000	P	50.6
2	☐	1.000	0.796	172.22	0.0000	P	2.2
3	☐	50.000	54.111	9664.43	0.0007	P	0.9
4	☐	125.000	131.702	23914.30	0.0016	P	2.5
5	☐	250.000	262.864	47267.04	0.0033	P	1.7
6	☐	500.000	497.441	93862.32	0.0062	P	4.7
7	☐	1000.000	997.021	185430.98	0.0124	P	1.6
8	☐			116.67	0.0000	P	18.7

$$y = 1.2462E-005 * x + 2.2576E-006$$

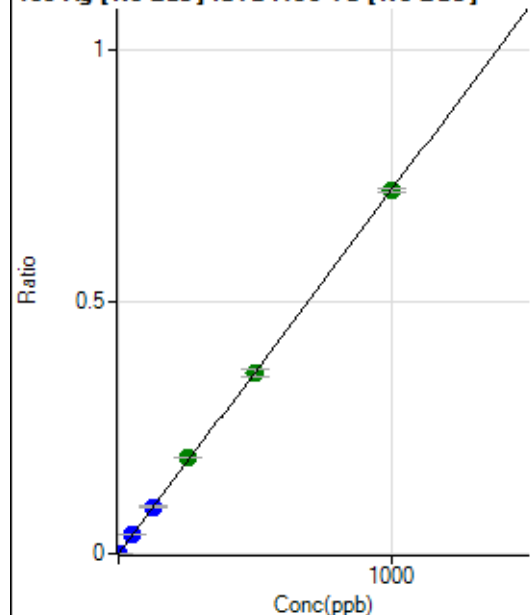
$$R = 0.9999$$

$$DL = 0.2749$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	11.11	0.0000	P	114.
2	☐	1.000	0.838	8569.42	0.0006	P	7.0
3	☐	50.000	52.859	545528.37	0.0382	P	1.3
4	☐	125.000	128.815	1354005.24	0.0931	P	2.4
5	☐	250.000	265.146	2762338.65	0.1916	A	0.6
6	☐	500.000	495.609	5419280.68	0.3580	A	4.6
7	☐	1000.000	997.790	10755545.03	0.7208	A	1.1
8	☐			6334.88	0.0004	P	5.7

$$y = 7.2244\text{E-}004 * x + 7.7849\text{E-}007$$

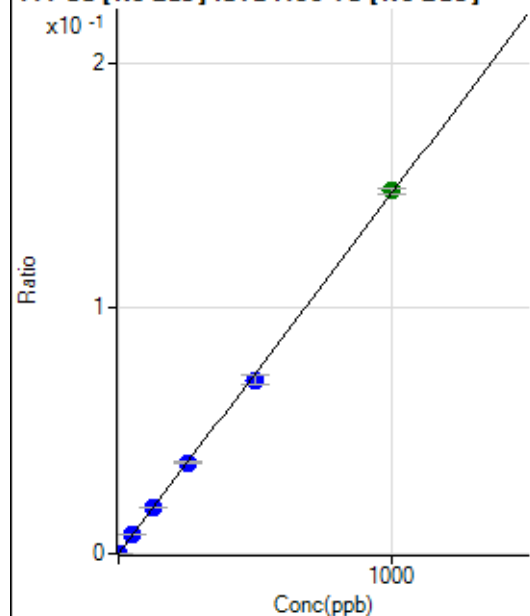
$$R = 0.9999$$

$$DL = 0.00371$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	909.90	0.0001	P	1.1
2	☐	1.000	1.019	3018.58	0.0002	P	3.2
3	☐	50.000	52.569	111039.52	0.0078	P	0.4
4	☐	125.000	128.007	274065.33	0.0188	P	2.9
5	☐	250.000	253.267	536571.39	0.0372	P	0.2
6	☐	500.000	482.520	1071992.62	0.0708	P	4.8
7	☐	1000.000	1007.419	2205335.25	0.1478	A	1.3
8	☐			2087.07	0.0001	P	0.3

$$y = 1.4665\text{E-}004 * x + 6.4072\text{E-}005$$

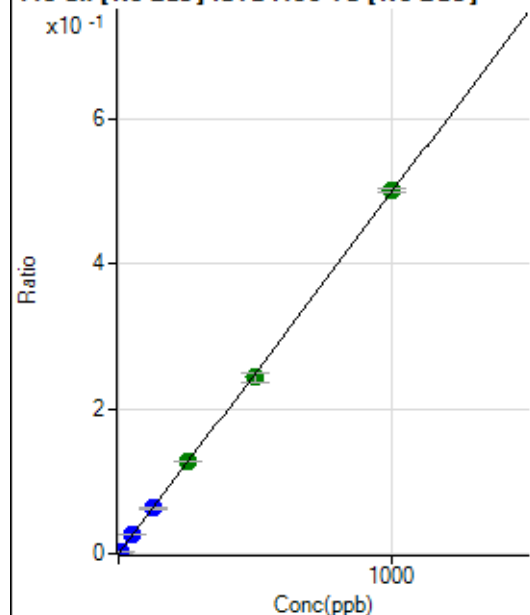
$$R = 0.9998$$

$$DL = 0.01423$$

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	2130.79	0.0002	P	15.6
2	☐	5.000	4.875	36483.07	0.0026	P	2.5
3	☐	50.000	51.435	368467.93	0.0258	P	0.7
4	☐	125.000	125.273	911042.89	0.0626	P	2.8
5	☐	250.000	256.431	1846022.39	0.1280	A	1.0
6	☐	500.000	487.268	3679857.68	0.2431	A	5.0
7	☐	1000.000	1004.653	7476906.59	0.5011	A	1.2
8	☐			14844.12	0.0011	P	2.3

$$y = 4.9863\text{E-}004 * x + 1.5020\text{E-}004$$

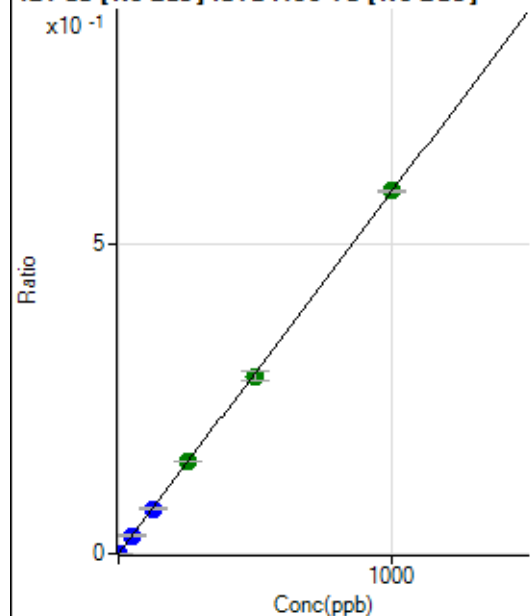
$$R = 0.9999$$

$$DL = 0.1411$$

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	22.22	0.0000	P	57.3
2	☐	2.000	1.872	15475.31	0.0011	P	3.1
3	☐	50.000	50.509	421215.58	0.0295	P	0.2
4	☐	125.000	123.689	1050627.67	0.0722	P	2.2
5	☐	250.000	254.631	2143971.29	0.1487	A	0.3
6	☐	500.000	491.482	4342891.42	0.2869	A	4.6
7	☐	1000.000	1003.240	8738956.88	0.5857	A	0.9
8	☐			11282.44	0.0008	P	2.6

$$y = 5.8379\text{E-}004 * x + 1.5674\text{E-}006$$

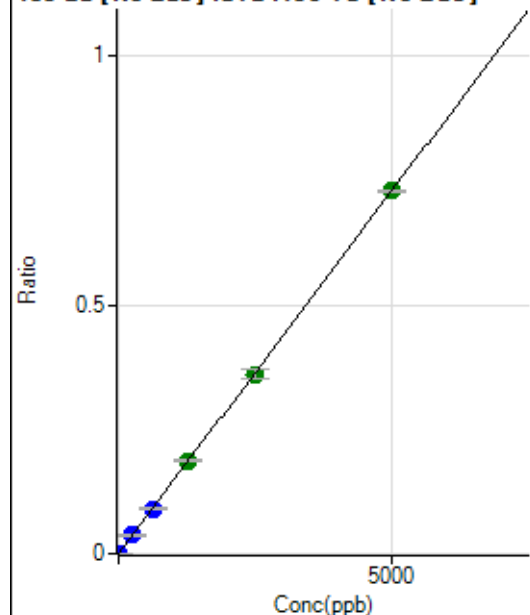
$$R = 0.9999$$

$$DL = 0.004615$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	13.89	0.0000	P	35.2
2	☐	10.000	9.262	19093.80	0.0014	P	1.4
3	☐	250.000	252.203	525021.41	0.0368	P	0.3
4	☐	625.000	617.973	1310339.61	0.0901	P	2.1
5	☐	1250.000	1284.478	2699731.09	0.1872	A	1.0
6	☐	2500.000	2474.666	5457788.92	0.3606	A	5.5
7	☐	5000.000	5004.817	10882933.58	0.7294	A	0.6
8	☐			5623.49	0.0004	P	4.7

$$y = 1.4573E-004 * x + 9.7985E-007$$

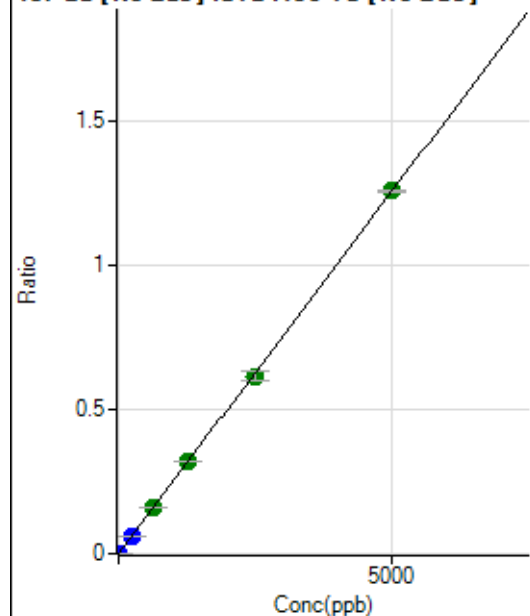
$$R = 1.0000$$

$$DL = 0.007106$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	33.34	0.0000	P	67.3
2	☐	10.000	9.337	33178.31	0.0023	P	1.4
3	☐	250.000	250.981	900266.90	0.0630	P	0.9
4	☐	625.000	633.993	2316630.22	0.1592	A	2.0
5	☐	1250.000	1274.089	4614521.85	0.3200	A	0.1
6	☐	2500.000	2454.978	9331017.05	0.6165	A	4.8
7	☐	5000.000	5015.317	18793271.08	1.2595	A	0.8
8	☐			9497.87	0.0007	P	3.4

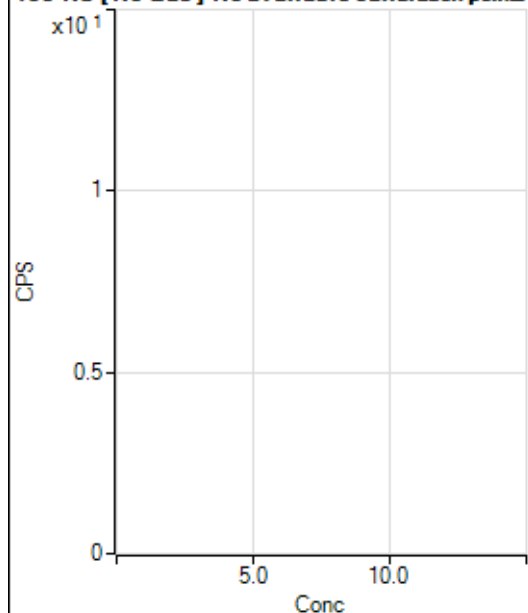
$$y = 2.5113E-004 * x + 2.3590E-006$$

$$R = 0.9999$$

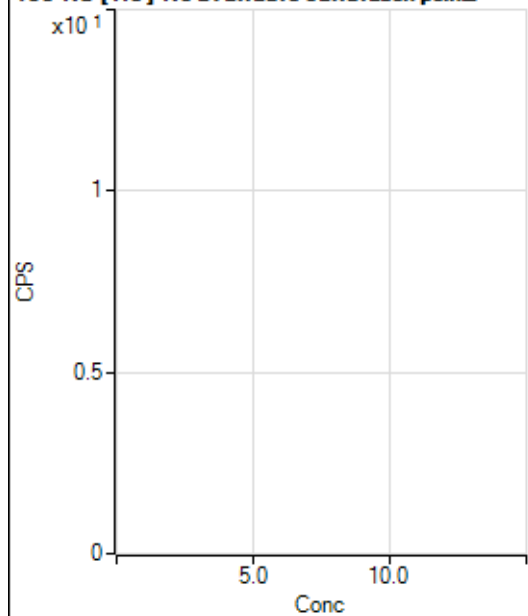
$$DL = 0.01896$$

Weight: <None>

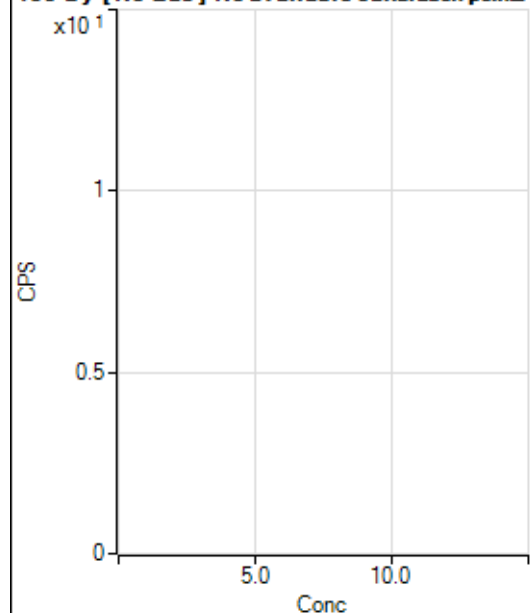
Min Conc: 0

150 Nd [No Gas] No available calibration points

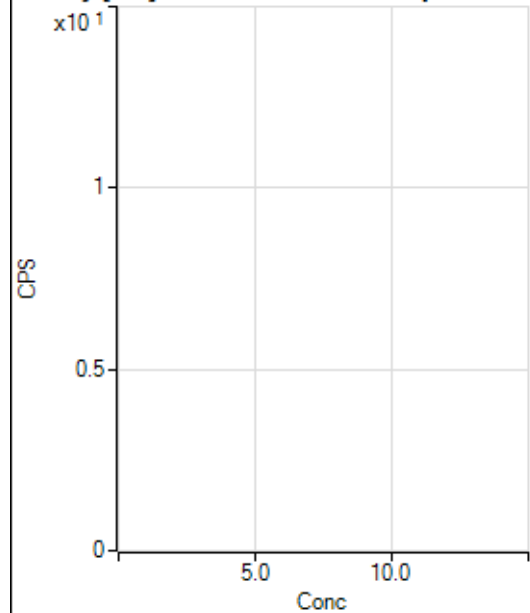
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			8.89		P	43.3
2	☐			11.11		P	34.6
3	☐			62.22		P	24.7
4	☐			148.89		P	22.1
5	☐			288.90		P	8.1
6	☐			520.02		P	13.0
7	☐			1120.07		P	11.9
8	☐			48.89		P	41.7

150 Nd [He] No available calibration points

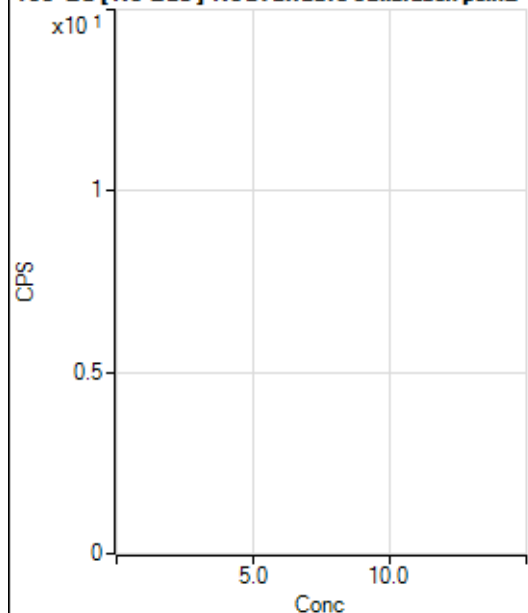
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1.11		P	173.
2	☐			4.44		P	43.4
3	☐			21.11		P	9.1
4	☐			31.11		P	37.6
5	☐			65.56		P	12.8
6	☐			104.44		P	4.9
7	☐			198.89		P	18.5
8	☐			56.67		P	5.9

156 Dy [No Gas] No available calibration points

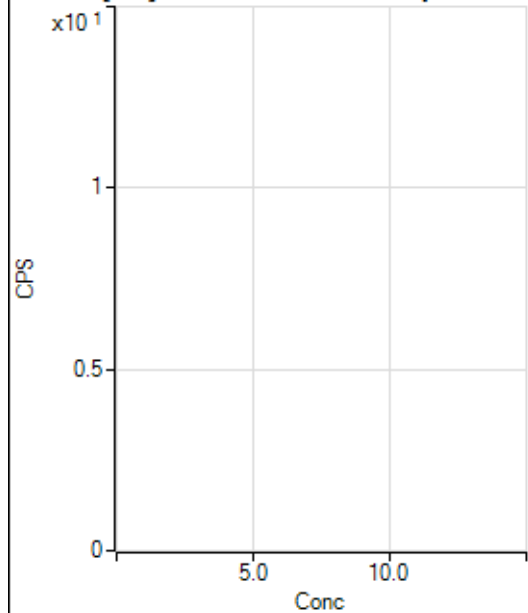
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			5.56		P	173.
2	☐			11.11		P	114.
3	☐			25.00		P	100.
4	☐			50.00		P	16.7
5	☐			119.45		P	28.2
6	☐			277.79		P	14.2
7	☐			505.58		P	13.2
8	☐			1419.56		P	12.4

156 Dy [He] No available calibration points

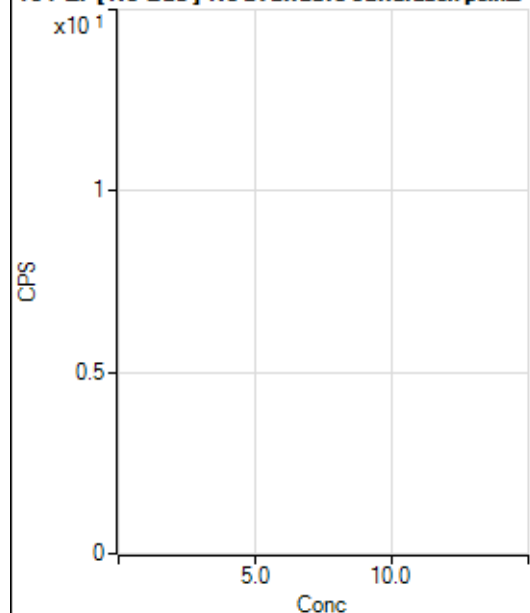
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			10.00		P	57.8
2	☐			4.45		P	86.6
3	☐			33.33		P	10.0
4	☐			63.33		P	10.5
5	☐			152.23		P	20.3
6	☐			266.67		P	14.2
7	☐			582.24		P	4.9
8	☐			827.81		P	10.2

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

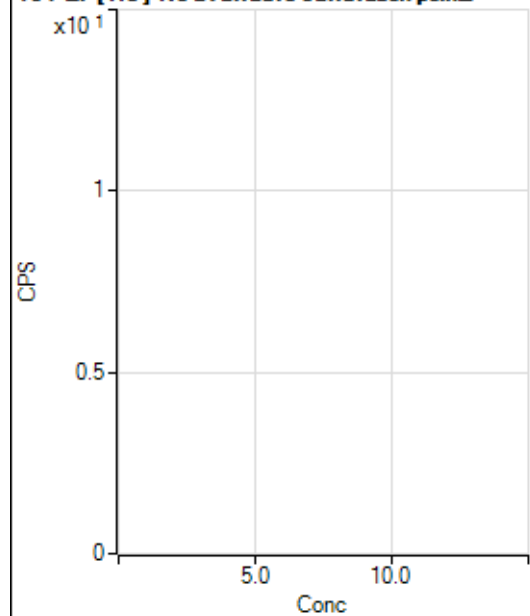
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			47.22		P	27.0
2	☐			75.00		P	40.1
3	☐			75.00		P	19.2
4	☐			136.11		P	12.7
5	☐			152.78		P	22.0
6	☐			255.57		P	15.4
7	☐			344.46		P	16.1
8	☐			1094.52		P	9.7

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			422.23		P	4.0
2	☐			381.12		P	7.9
3	☐			402.23		P	6.0
4	☐			436.68		P	17.1
5	☐			431.12		P	7.7
6	☐			493.35		P	4.4
7	☐			591.13		P	7.6
8	☐			1191.17		P	3.8

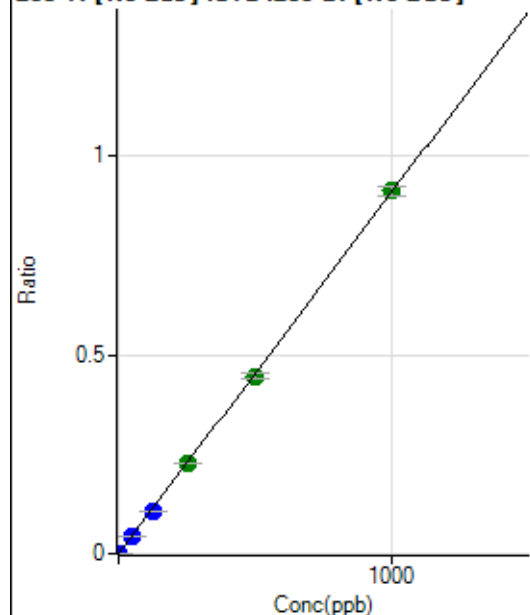
164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			58.33		P	14.3
2	☐			50.00		P	16.7
3	☐			66.67		P	33.1
4	☐			69.45		P	30.2
5	☐			80.56		P	48.9
6	☐			88.89		P	39.0
7	☐			105.56		P	12.1
8	☐			169.45		P	7.5

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			32.22		P	12.0
2	☐			48.89		P	27.5
3	☐			41.11		P	16.9
4	☐			38.89		P	30.1
5	☐			48.89		P	43.8
6	☐			77.78		P	19.8
7	☐			74.44		P	24.7
8	☐			107.78		P	7.1

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	91.67	0.0000	P	68.6
2	☐	1.000	0.874	6951.96	0.0008	P	4.4
3	☐	50.000	47.080	368826.51	0.0428	P	0.3
4	☐	125.000	116.778	941748.19	0.1060	P	3.0
5	☐	250.000	251.087	1969733.31	0.2280	A	0.3
6	☐	500.000	492.435	3987054.60	0.4471	A	4.1
7	☐	1000.000	1004.685	7893398.53	0.9122	A	2.4
8	☐			2389.16	0.0003	P	7.5

$$y = 9.0796E-004 * x + 1.0639E-005$$

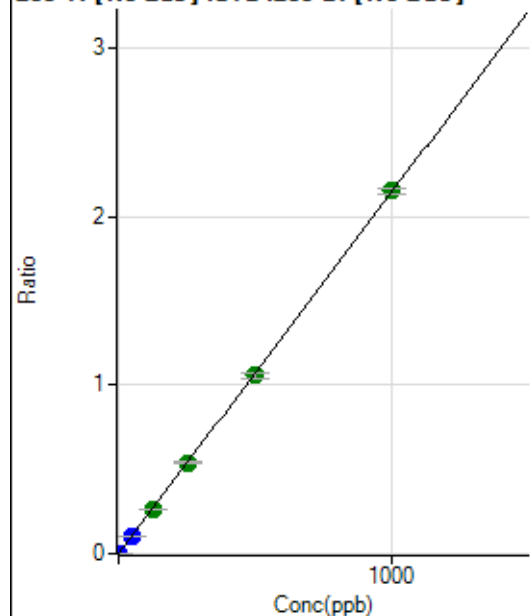
$$R = 0.9999$$

$$DL = 0.02411$$

Weight: <None>

Min Conc: 0

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	225.01	0.0000	P	6.6
2	☐	1.000	0.889	16696.75	0.0019	P	1.0
3	☐	50.000	47.067	870895.18	0.1010	P	0.1
4	☐	125.000	122.446	2332358.77	0.2626	A	2.5
5	☐	250.000	252.192	4672839.13	0.5409	A	0.5
6	☐	500.000	492.422	9417111.41	1.0560	A	3.9
7	☐	1000.000	1003.707	18627442.43	2.1525	A	1.4
8	☐			5645.77	0.0007	P	8.5

$$y = 0.0021 * x + 2.6083E-005$$

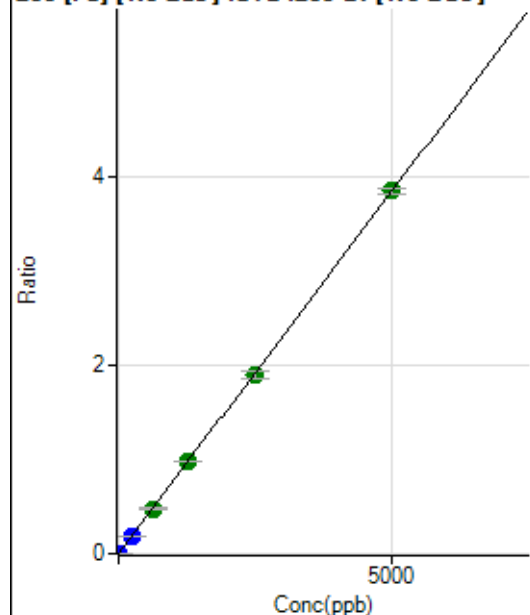
$$R = 1.0000$$

$$DL = 0.002393$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	455.57	0.0001	P	12.3
2	☐	1.000	0.865	6201.52	0.0007	P	2.1
3	☐	250.000	231.803	1537919.71	0.1783	P	0.7
4	☐	625.000	617.825	4219352.99	0.4751	A	2.6
5	☐	1250.000	1267.759	8422086.30	0.9748	A	0.5
6	☐	2500.000	2470.209	16937040.77	1.8993	A	3.9
7	☐	5000.000	5012.262	33348613.94	3.8539	A	1.9
8	☐			10035.34	0.0013	P	2.5

$$y = 7.6888\text{E-}004 * x + 5.2819\text{E-}005$$

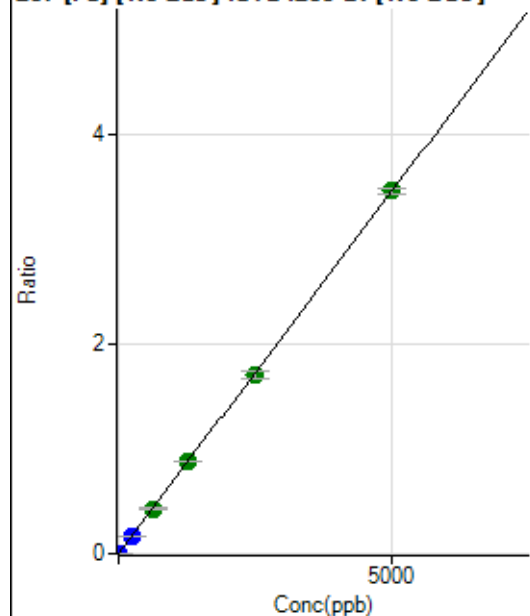
$$R = 1.0000$$

$$DL = 0.02537$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	372.24	0.0000	P	8.3
2	☐	1.000	0.837	5367.81	0.0006	P	1.1
3	☐	250.000	229.658	1368940.91	0.1587	P	0.5
4	☐	625.000	615.160	3774370.31	0.4250	A	4.4
5	☐	1250.000	1272.697	7596864.69	0.8793	A	0.3
6	☐	2500.000	2471.472	15224624.99	1.7074	A	4.5
7	☐	5000.000	5010.837	29955523.12	3.4617	A	1.7
8	☐			8775.21	0.0012	P	6.3

$$y = 6.9083\text{E-}004 * x + 4.3157\text{E-}005$$

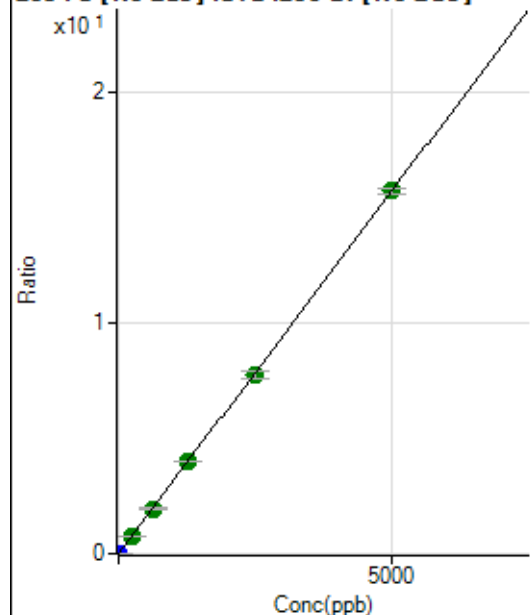
$$R = 1.0000$$

$$DL = 0.01553$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1772.31	0.0002	P	6.1
2	☐	1.000	0.840	24588.70	0.0028	P	1.3
3	☐	250.000	242.904	6584780.61	0.7634	A	0.2
4	☐	625.000	614.030	17134229.58	1.9294	A	3.7
5	☐	1250.000	1271.823	34525712.05	3.9960	A	0.5
6	☐	2500.000	2476.274	69375834.65	7.7801	A	4.4
7	☐	5000.000	5008.133	136159542.4	15.7347	A	1.6
8	☐			40663.54	0.0054	P	3.4

$$y = 0.0031 * x + 2.0548E-004$$

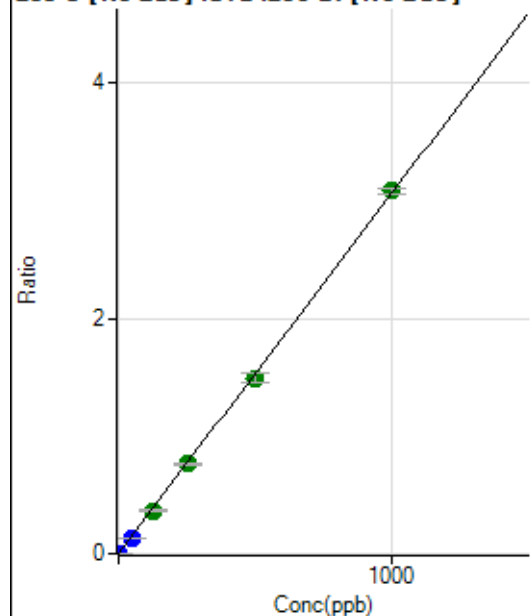
$$R = 1.0000$$

$$DL = 0.01189$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	13.89	0.0000	P	124.
2	☐	1.000	0.819	21654.41	0.0025	P	3.0
3	☐	50.000	43.795	1155693.75	0.1340	P	1.9
4	☐	125.000	119.872	3256385.21	0.3667	A	4.0
5	☐	250.000	248.365	6564259.83	0.7597	A	0.8
6	☐	500.000	487.974	13308148.91	1.4927	A	5.2
7	☐	1000.000	1007.373	26666180.98	3.0815	A	1.4
8	☐			3775.64	0.0005	P	3.1

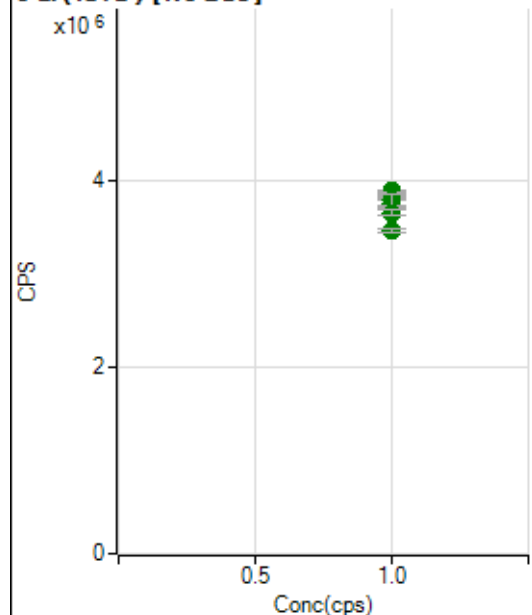
$$y = 0.0031 * x + 1.6019E-006$$

$$R = 0.9999$$

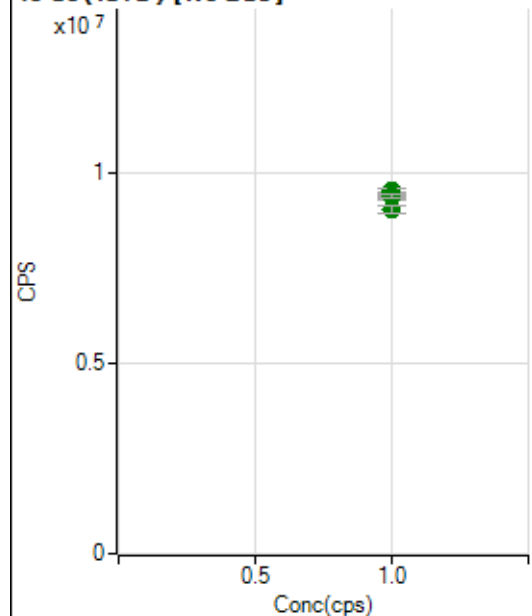
$$DL = 0.00196$$

Weight: <None>

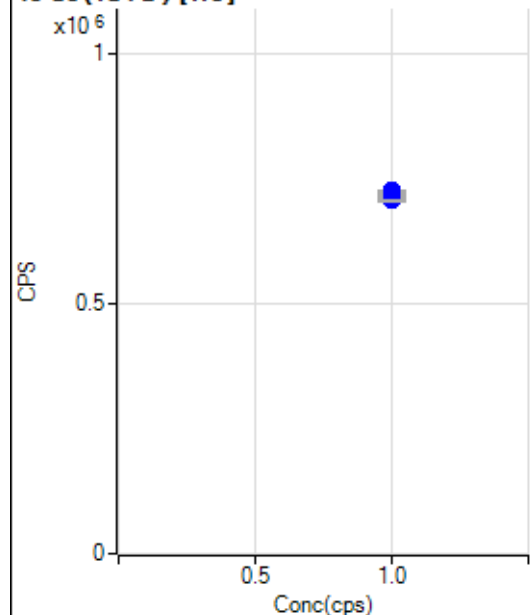
Min Conc: 0

6 Li (ISTD) [No Gas]

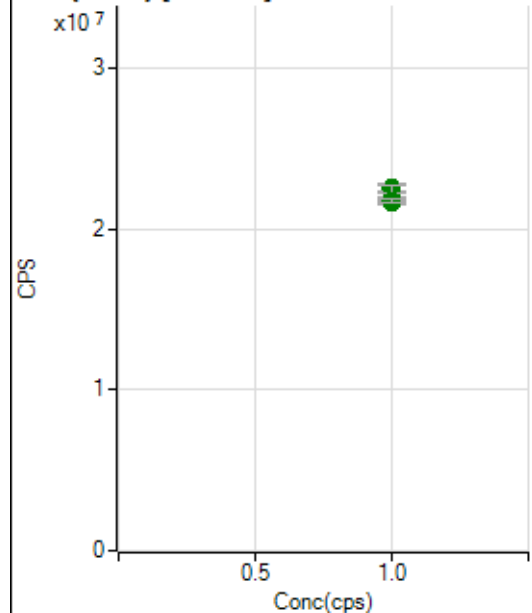
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3883807.13		A	0.6
2	☐	1.000		3857061.33		A	1.4
3	☐	1.000		3843390.29		A	2.2
4	☐	1.000		3859182.69		A	0.9
5	☐	1.000		3746907.13		A	1.7
6	☐	1.000		3781249.07		A	3.1
7	☐	1.000		3644267.06		A	1.7
8	☐	1.000		3462086.16		A	1.6

45 Sc (ISTD) [No Gas]

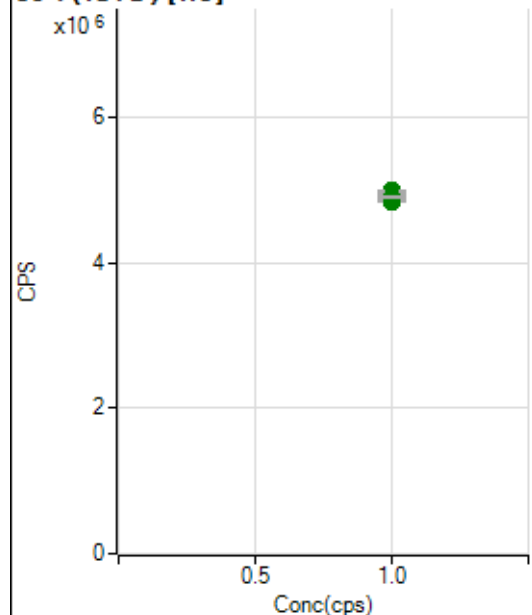
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		9453316.46		A	1.3
2	☐	1.000		9552175.90		A	1.6
3	☐	1.000		9468671.11		A	0.3
4	☐	1.000		9474398.12		A	1.3
5	☐	1.000		9068608.68		A	2.1
6	☐	1.000		9541688.54		A	1.5
7	☐	1.000		9407770.90		A	1.4
8	☐	1.000		9412115.21		A	1.0

45 Sc (ISTD) [He]

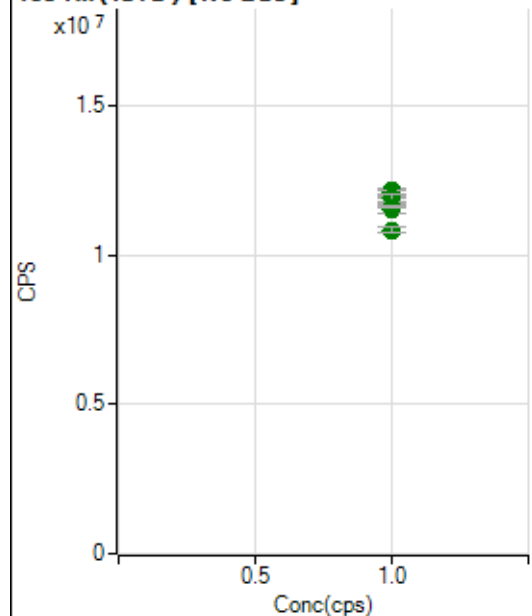
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		723770.99		P	0.8
2	☐	1.000		724637.33		P	0.7
3	☐	1.000		720715.25		P	0.8
4	☐	1.000		716529.63		P	0.8
5	☐	1.000		707599.25		P	0.7
6	☐	1.000		717611.84		P	0.7
7	☐	1.000		712501.04		P	0.1
8	☐	1.000		705320.54		P	0.3

89 Y (ISTD) [No Gas]

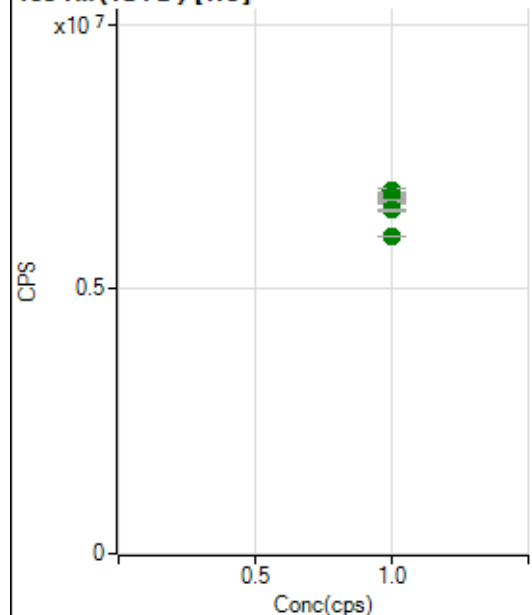
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		21882011.34		A	1.6
2	☐	1.000		21907752.17		A	1.5
3	☐	1.000		21978964.53		A	0.6
4	☐	1.000		22271840.78		A	0.2
5	☐	1.000		21615908.56		A	1.3
6	☐	1.000		22574928.27		A	2.3
7	☐	1.000		22534134.66		A	2.2
8	☐	1.000		21757827.45		A	1.5

89 Y (ISTD) [He]

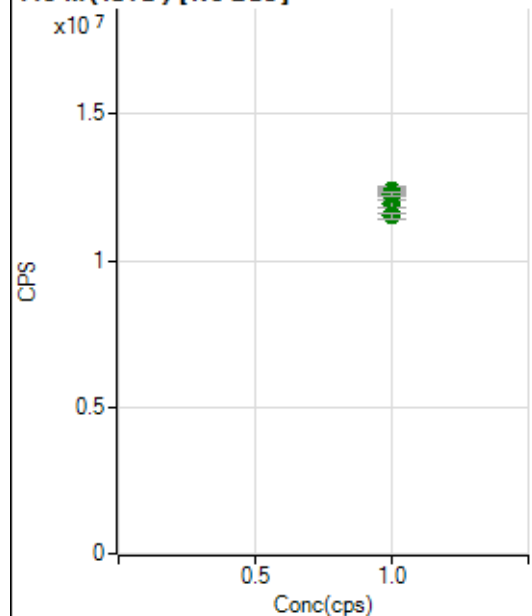
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4935028.33		A	0.6
2	☐	1.000		4977837.39		A	0.2
3	☐	1.000		4916422.32		A	1.3
4	☐	1.000		4858903.36		A	1.1
5	☐	1.000		4845084.75		A	0.8
6	☐	1.000		4986580.69		A	0.8
7	☐	1.000		4925464.40		A	1.3
8	☐	1.000		4901696.18		A	0.4

103 Rh (ISTD) [No Gas]

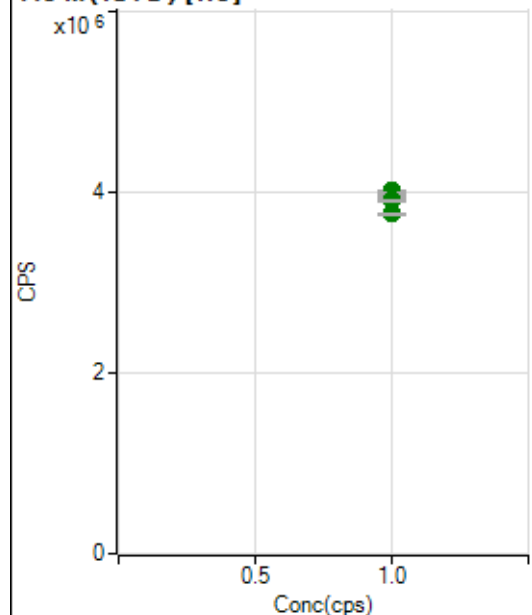
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		12156509.26		A	1.9
2	☐	1.000		12081627.04		A	1.3
3	☐	1.000		11966134.27		A	0.5
4	☐	1.000		12096283.15		A	1.2
5	☐	1.000		11561020.24		A	2.3
6	☐	1.000		11941846.07		A	2.0
7	☐	1.000		11623965.94		A	0.9
8	☐	1.000		10849646.64		A	1.4

103 Rh (ISTD) [He]

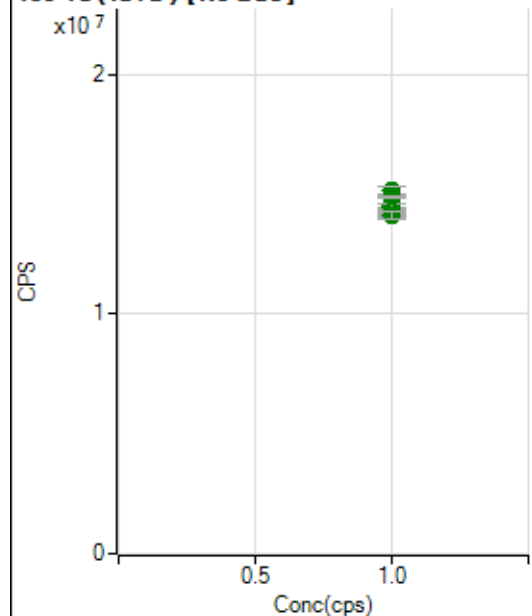
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6834461.63		A	0.1
2	☐	1.000		6853041.84		A	1.5
3	☐	1.000		6749409.34		A	0.7
4	☐	1.000		6684124.35		A	2.2
5	☐	1.000		6646466.91		A	1.5
6	☐	1.000		6667345.60		A	0.5
7	☐	1.000		6484930.18		A	1.0
8	☐	1.000		5987856.93		A	0.4

115 In (ISTD) [No Gas]

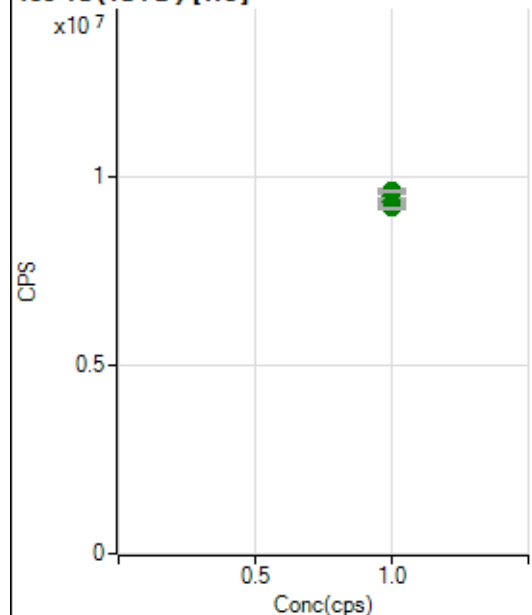
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		12372081.30		A	0.9
2	☐	1.000		12332555.49		A	1.3
3	☐	1.000		12257981.00		A	0.3
4	☐	1.000		12341111.46		A	0.6
5	☐	1.000		11916262.45		A	2.1
6	☐	1.000		12359989.49		A	2.4
7	☐	1.000		12244020.45		A	0.9
8	☐	1.000		11535379.58		A	1.6

115 In (ISTD) [He]

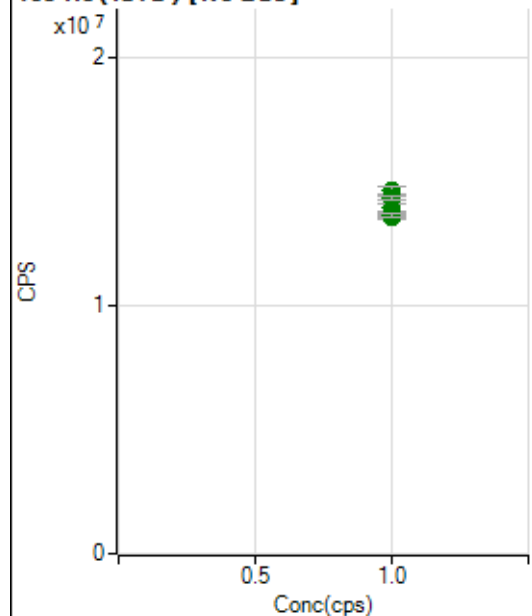
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4020947.72		A	0.7
2	☐	1.000		4011765.16		A	1.2
3	☐	1.000		3995119.10		A	1.3
4	☐	1.000		3987478.63		A	0.3
5	☐	1.000		3915288.33		A	1.1
6	☐	1.000		3997804.66		A	0.3
7	☐	1.000		3911160.59		A	0.8
8	☐	1.000		3767022.38		A	0.8

159 Tb (ISTD) [No Gas]

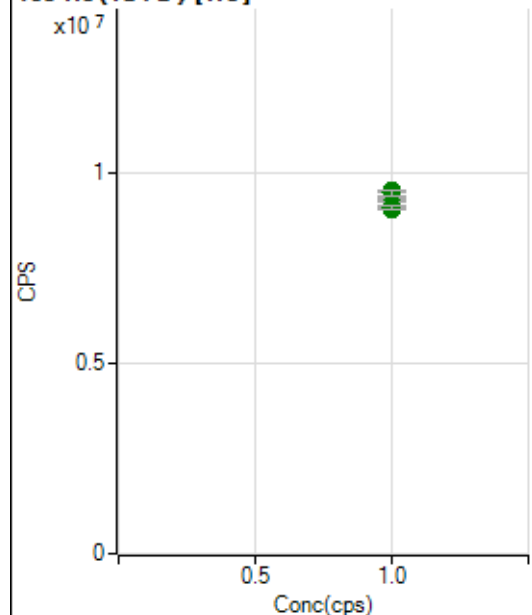
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		14201820.90		A	1.1
2	☐	1.000		14134524.23		A	1.1
3	☐	1.000		14283901.46		A	1.3
4	☐	1.000		14549771.31		A	0.9
5	☐	1.000		14422056.59		A	2.1
6	☐	1.000		15146034.91		A	2.3
7	☐	1.000		14921243.11		A	0.4
8	☐	1.000		14130418.26		A	2.0

159 Tb (ISTD) [He]

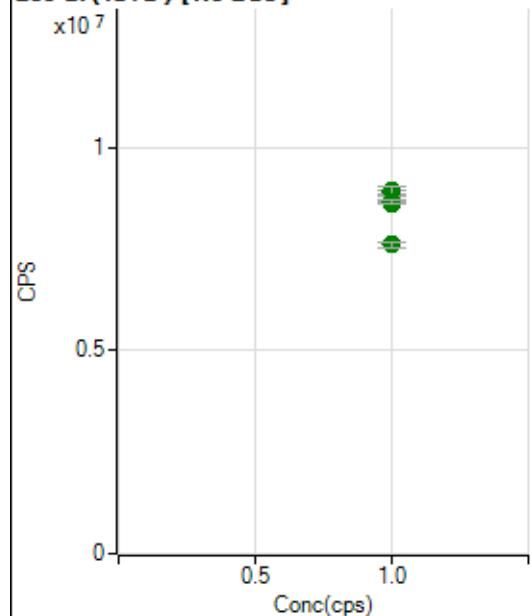
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		9264277.57		A	0.9
2	☐	1.000		9308528.61		A	0.2
3	☐	1.000		9314017.78		A	0.5
4	☐	1.000		9329439.86		A	0.8
5	☐	1.000		9453073.95		A	1.1
6	☐	1.000		9607990.41		A	1.5
7	☐	1.000		9576914.44		A	0.5
8	☐	1.000		9152166.39		A	0.4

165 Ho (ISTD) [No Gas]

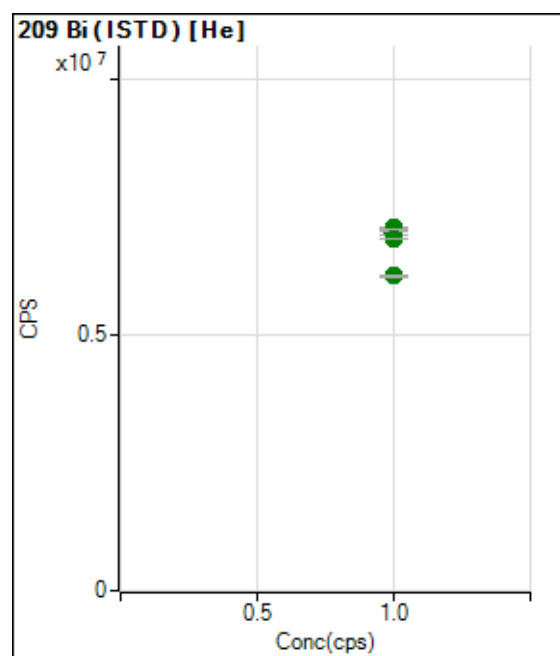
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		13606311.46		A	0.3
2	☐	1.000		13535111.05		A	0.9
3	☐	1.000		13744327.15		A	0.9
4	☐	1.000		14223380.76		A	2.3
5	☐	1.000		13893044.38		A	2.8
6	☐	1.000		14599805.06		A	2.1
7	☐	1.000		14314539.79		A	1.0
8	☐	1.000		13652920.49		A	1.2

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		9080418.48		A	0.7
2	☐	1.000		9057225.14		A	0.6
3	☐	1.000		9287525.14		A	0.1
4	☐	1.000		9285326.53		A	0.5
5	☐	1.000		9384047.64		A	0.3
6	☐	1.000		9536462.64		A	0.3
7	☐	1.000		9485170.42		A	1.3
8	☐	1.000		9104024.73		A	1.0

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		8627260.71		A	0.6
2	☐	1.000		8641628.00		A	0.6
3	☐	1.000		8626088.27		A	0.8
4	☐	1.000		8882693.13		A	1.0
5	☐	1.000		8639851.96		A	1.0
6	☐	1.000		8922728.62		A	2.3
7	☐	1.000		8654697.79		A	1.3
8	☐	1.000		7591058.91		A	1.4



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6999741.49		A	1.5
2	☐	1.000		7000095.31		A	0.9
3	☐	1.000		7100790.66		A	0.4
4	☐	1.000		7067061.35		A	0.9
5	☐	1.000		7063176.56		A	1.2
6	☐	1.000		7051396.91		A	0.3
7	☐	1.000		6876798.09		A	0.1
8	☐	1.000		6168080.12		A	0.7

US EPA Tune Check Report

Operator Name Jaswal

Acq/Data Batch D:\Agilent\ICPMH\1\DATA\IP7102822-MS.b

Acq. Date-Time 2022-10-28 13:25:53

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		10523	105231.03			2.118	5.000
24		125450	1254504.60			1.864	5.000
25		16939	169394.72			1.878	5.000
26		19693	196930.98			1.892	5.000
59		103307	1033070.83			2.348	5.000
113		9868	98680.07			1.793	5.000
115		126265	1262649.77			3.048	5.000
206		24477	244771.34			2.370	5.000
207		22451	224507.07			1.752	5.000
208		52938	529379.36			2.123	5.000
220		0	4.10			23.458	

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

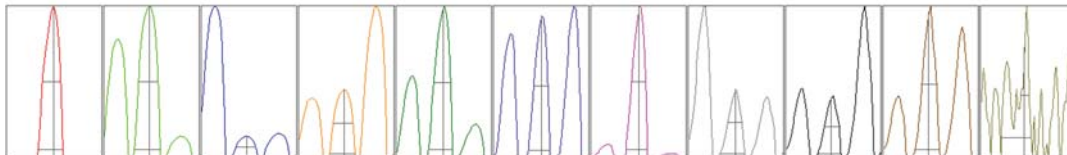
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	10578	10510	10694	10685	10149
24	125381	125626	127458	127184	121602
25	17019	17081	17108	17116	16374
26	19709	19748	19922	20020	19067
59	103581	103812	104491	105479	99174
113	9924	9885	9996	9974	9561
115	126506	126138	129534	129197	119950
206	24668	24589	25016	24628	23485
207	22620	22586	22746	22541	21761
208	53430	53262	53711	53335	50951

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	1	0

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	19676.70	9.00	8.90 - 9.10	
24	212478.73	23.95	23.90 - 24.10	
25	28631.99	24.95	24.90 - 25.10	
26	32822.07	25.95	25.90 - 26.10	
59	202543.42	59.00	58.90 - 59.10	
113	22683.79	113.05	112.90 - 113.10	
115	290873.82	115.05	114.90 - 115.10	
206	55325.06	206.00	205.90 - 206.10	
207	47876.94	206.95	206.90 - 207.10	
208	116368.93	207.95	207.90 - 208.10	
220	0.80	219.90	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.57	0.777	0.900	
24	0.62	0.819	0.900	
25	0.62	0.788	0.900	
26	0.63	0.796	0.900	
59	0.52	0.761	0.900	
113	0.44	0.681	0.900	
115	0.44	0.677	0.900	
206	0.45	0.771	0.900	
207	0.47	0.726	0.900	
208	0.46	0.770	0.900	
220	0.27	0.944		

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	0.0 V	Omega Lens	8.8 V	Deflect	15.2 V
Extract 2	-130.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-65 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	---	OctP RF	200 V		

QP Parameters

Mass Gain	123	Axis Gain	1.0001	QP Bias	-3.0 V
Mass Offset	125	Axis Offset	-0.01		

Hardware Settings

Torch

Torch H	-0.6 mm	Torch V	0.5 mm
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EM

Discriminator	3.2 mV	Analog HV	2213 V	Pulse HV	1411 V
---------------	--------	-----------	--------	----------	--------

[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		32189	321889.95			1.066	
89		48538	485375.28			0.994	
205		40606	406057.13			0.641	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	32449	32353	32178	32364	31601
89	48947	48604	48517	48882	47738
205	40848	40521	40370	40916	40374

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	0.0 V	Omega Lens	10.8 V	Deflect	3.6 V
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US EPA Tune Check Report

Extract 2	-160.0 V	Cell Entrance	-40 V	Plate Bias	-60 V
Omega Bias	-80 V	Cell Exit	-60 V		

Cell Parameters

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

QP Parameters

Mass Gain	123	Axis Gain	1.0001	QP Bias	-13.0 V
Mass Offset	125	Axis Offset	-0.01		

Hardware Settings

Torch

Torch H	-0.6 mm	Torch V	0.5 mm
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EM

Discriminator	3.2 mV	Analog HV	2213 V	Pulse HV	1411 V
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