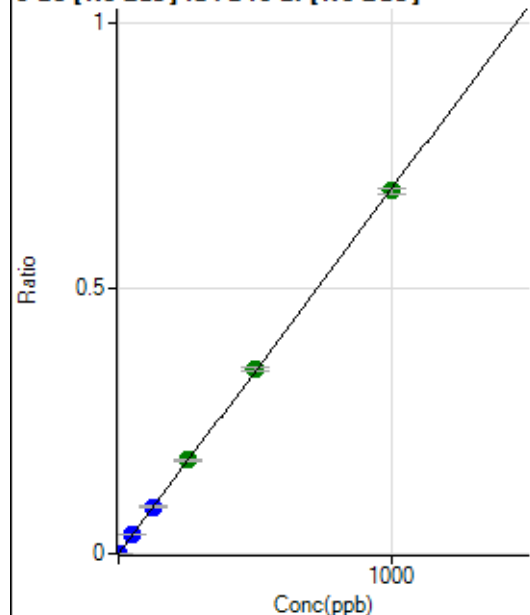


Batch Folder: D:\Agilent\ICPMH\1\DATA\P8122022 MS.b\
Analysis File: P8122022 MS.batch.bin
DA Date-Time: 2022-12-20 15:45:30
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	006CALB.d	S00	2022-12-20 11:19:09
2	007CALS.d	S02	2022-12-20 11:22:18
3	008CALS.d	S03	2022-12-20 11:25:27
4	009CALS.d	S04	2022-12-20 11:28:34
5	010CALS.d	S05	2022-12-20 11:31:42
6	011CALS.d	S06	2022-12-20 11:34:49
7	012CALS.d	S07	2022-12-20 11:37:57
8	013CALS.d	S08	2022-12-20 11:41:04

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	32.08	0.0000	P	7.5
2	☐	1.000	1.043	4515.97	0.0007	P	5.0
3	☐	50.000	52.893	231037.07	0.0363	P	3.0
4	☐	125.000	127.900	558210.14	0.0878	P	3.1
5	☐	250.000	257.665	1122675.88	0.1769	A	1.9
6	☐	500.000	505.930	2141652.50	0.3473	A	2.4
7	☐	1000.000	994.612	4039979.43	0.6828	A	1.3
8	☐			937.00	0.0002	P	13.4

$$y = 6.8653\text{E-}004 * x + 5.1009\text{E-}006$$

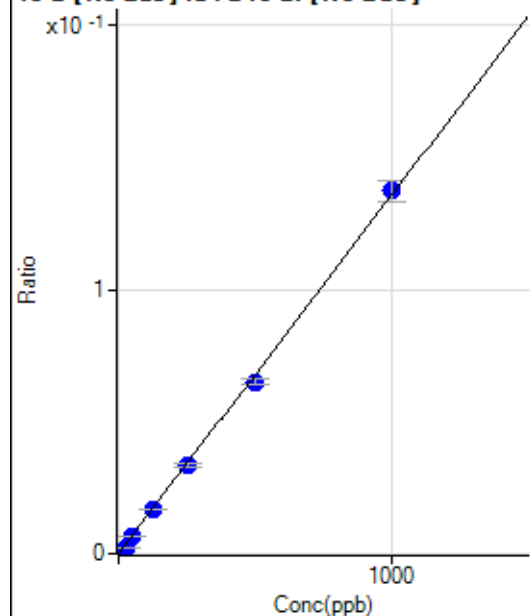
$$R = 0.9999$$

$$DL = 0.001681$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	447.92	0.0001	P	4.9
2	☐	25.000	16.118	14151.42	0.0023	P	3.1
3	☐	50.000	49.095	42806.79	0.0067	P	5.1
4	☐	125.000	123.316	106768.49	0.0168	P	1.5
5	☐	250.000	244.897	211105.15	0.0333	P	4.9
6	☐	500.000	478.909	400711.97	0.0650	P	3.0
7	☐	1000.000	1012.299	811749.31	0.1373	P	6.1
8	☐			56237.28	0.0101	P	7.8

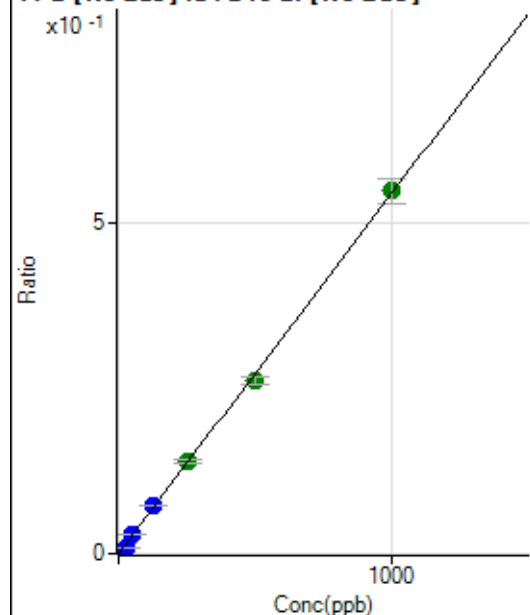
$$y = 1.3558\text{E-}004 * x + 7.1192\text{E-}005$$

$$R = 0.9997$$

$$DL = 0.07688$$

Weight: <None>

Min Conc: 0

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

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2113.08	0.0003	P	6.8
2	☐	25.000	17.748	62522.32	0.0100	P	3.6
3	☐	50.000	53.693	187493.77	0.0295	P	4.6
4	☐	125.000	131.781	456779.36	0.0718	P	1.4
5	☐	250.000	255.274	881196.31	0.1388	A	3.6
6	☐	500.000	480.401	1608816.77	0.2610	A	4.1
7	☐	1000.000	1007.630	3234198.93	0.5471	A	6.8
8	☐			249348.35	0.0447	P	9.7

$$y = 5.4260E-004 * x + 3.3599E-004$$

$$R = 0.9996$$

$$DL = 0.1265$$

Weight: <None>

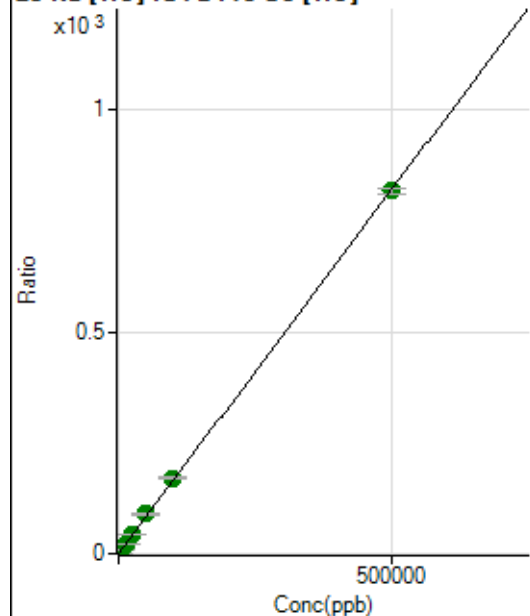
Min Conc: 0

12 C [No Gas] No available calibration points

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			8274218.07		A	0.4
2	☐			8132006.52		A	1.1
3	☐			7612236.89		A	0.2
4	☐			7660359.29		A	0.2
5	☐			8004019.10		A	0.4
6	☐			8013538.89		A	3.1
7	☐			7981625.18		A	1.8
8	☐			7217399.12		A	1.0

12 C [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			100548.77		P	1.5
2	☐			97220.83		P	0.9
3	☐			94578.69		P	0.9
4	☐			93784.44		P	0.8
5	☐			98479.51		P	0.8
6	☐			101787.02		P	0.6
7	☐			102100.39		P	0.3
8	☐			101399.41		P	0.9

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	29883.86	0.1003	P	2.7
2	☐	500.000	491.824	273379.98	0.9071	P	2.5
3	☐	5000.000	5475.676	2693401.25	9.0825	A	1.4
4	☐	12500.000	13077.611	6426834.30	21.5525	A	2.6
5	☐	25000.000	27086.409	12706950.20	44.5321	A	2.3
6	☐	50000.000	54146.351	25463110.64	88.9204	A	3.5
7	☐	100000.00	104265.77	50765304.61	171.1349	A	1.4
8	☐	500000.00	498608.70	246646319.4	818.0034	A	1.8

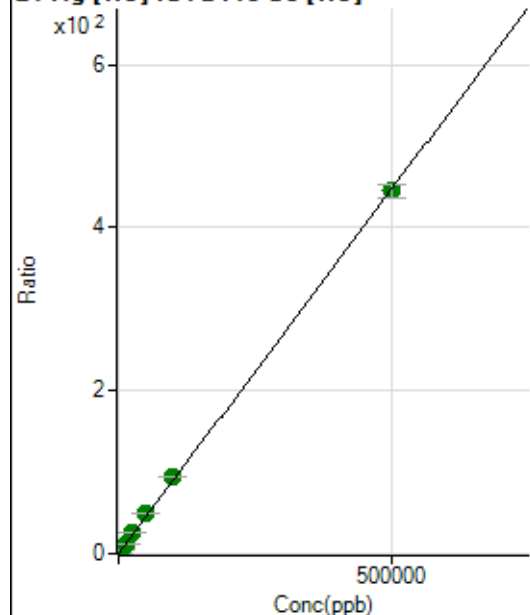
$$y = 0.0016 * x + 0.1003$$

$$R = 0.9999$$

$$DL = 4.873$$

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	330.57	0.0011	P	31.4
2	☐	500.000	517.111	139635.79	0.4633	P	2.3
3	☐	5000.000	5624.055	1491121.58	5.0283	A	3.3
4	☐	12500.000	13513.440	3602687.15	12.0805	A	2.6
5	☐	25000.000	28131.824	7175748.95	25.1476	A	2.2
6	☐	50000.000	55879.462	14304844.59	49.9508	A	2.7
7	☐	100000.00	106464.88	28225940.91	95.1682	A	0.7
8	☐	500000.00	497930.89	134179336.3	445.0926	A	3.4

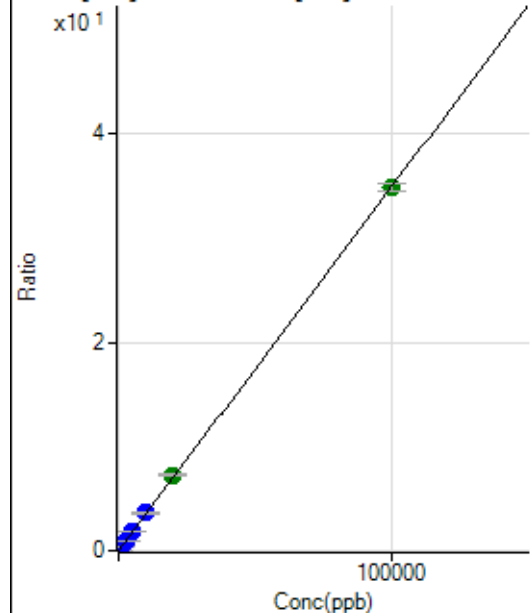
$$y = 8.9388E-004 * x + 0.0011$$

$$R = 0.9999$$

$$DL = 1.164$$

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	82.91	0.0003	P	8.6
2	☐	20.000	20.302	2221.57	0.0074	P	2.8
3	☐	1000.000	1096.175	113638.97	0.3832	P	2.4
4	☐	2500.000	2525.231	263149.55	0.8824	P	2.6
5	☐	5000.000	5278.747	526260.95	1.8443	P	2.2
6	☐	10000.000	10336.015	1034013.31	3.6110	P	3.4
7	☐	20000.000	20863.743	2161896.85	7.2886	A	1.6
8	☐	100000.00	99778.120	10509712.86	34.8558	A	2.0

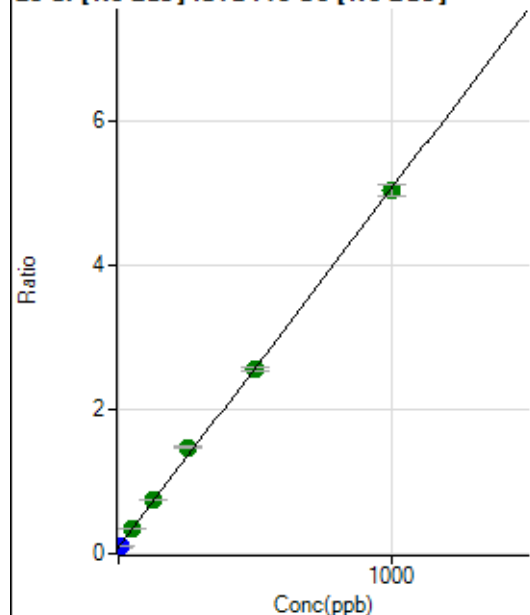
$$y = 3.4933E-004 * x + 2.7870E-004$$

$$R = 1.0000$$

$$DL = 0.2065$$

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	760312.60	0.0914	P	1.9
2	☐	10.000	2.745	865004.08	0.1050	P	2.0
3	☐	50.000	52.981	2993278.89	0.3554	A	0.6
4	☐	125.000	133.158	6242758.73	0.7549	A	0.3
5	☐	250.000	278.076	11831570.58	1.4770	A	1.0
6	☐	500.000	497.029	21066579.98	2.5681	A	1.4
7	☐	1000.000	993.370	41312738.42	5.0414	A	3.1
8	☐			971227.76	0.1192	A	3.3

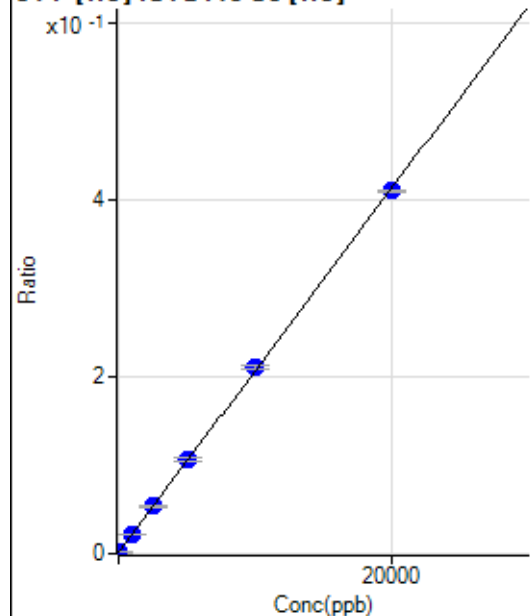
$$y = 0.0050 * x + 0.0914$$

$$R = 0.9995$$

$$DL = 1.041$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	-12.482	258.34	0.0009	P	21.7
2	☐	0.000	12.482	416.69	0.0014	P	12.7
3	☐	1000.000	1042.157	6707.30	0.0226	P	1.7
4	☐	2500.000	2560.367	16084.33	0.0539	P	3.6
5	☐	5000.000	5157.165	30669.22	0.1075	P	3.9
6	☐	10000.000	10165.339	60359.73	0.2108	P	2.2
7	☐	20000.000	19868.386	121861.34	0.4109	P	0.8
8	☐			327.79	0.0011	P	10.8

$$y = 2.0622E-005 * x + 0.0011$$

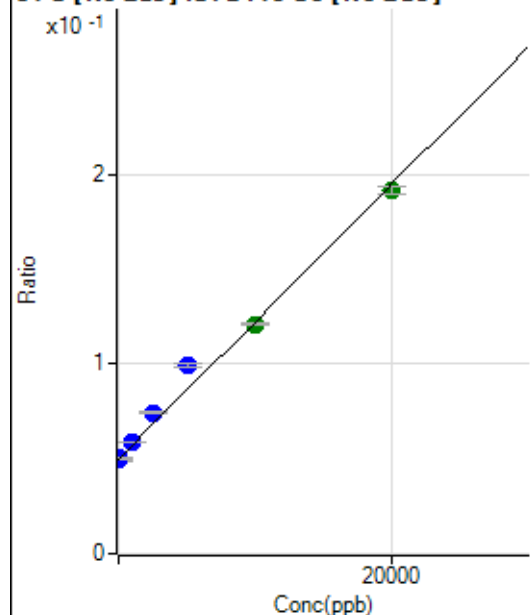
$$R = 0.9999$$

$$DL = 26.48$$

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	-75.551	411898.51	0.0495	P	2.1
2	☐	0.000	75.551	416621.57	0.0506	P	1.9
3	☐	1000.000	1270.146	499000.52	0.0592	P	0.3
4	☐	2500.000	3365.972	615458.50	0.0744	P	0.6
5	☐	5000.000	6849.234	798094.50	0.0997	P	2.1
6	☐	10000.000	9812.544	993616.81	0.1211	A	1.1
7	☐	20000.000	19509.666	1568736.98	0.1914	A	2.0
8	☐			374843.09	0.0460	P	1.5

$$y = 7.2446E-006 * x + 0.0500$$

$$R = 0.9945$$

$$DL = 412.9$$

Weight: <None>

Min Conc: 0

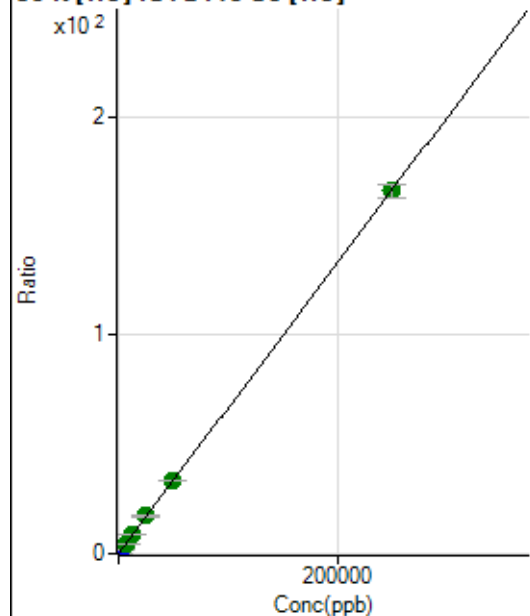
35 Cl [No Gas] No available calibration points



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			162634.81		P	1.8
2	☐			165766.65		P	1.2
3	☐			189195.97		P	0.9
4	☐			181112.12		P	0.7
5	☐			187496.11		P	1.7
6	☐			184438.97		P	0.3
7	☐			193077.91		P	0.5
8	☐			180080.92		P	1.9

35 Cl [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1325.09		P	5.7
2	☐			1266.76		P	10.8
3	☐			1466.78		P	11.4
4	☐			1355.66		P	5.9
5	☐			1441.78		P	8.7
6	☐			1439.01		P	6.2
7	☐			1455.67		P	1.7
8	☐			1330.66		P	11.2

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	21747.36	0.0731	P	4.9
2	☐	500.000	475.915	117182.50	0.3889	P	2.1
3	☐	2500.000	2634.612	540091.23	1.8213	P	1.9
4	☐	6250.000	6427.304	1292809.31	4.3379	A	4.6
5	☐	12500.000	13260.328	2531565.05	8.8720	A	2.2
6	☐	25000.000	25813.528	4925822.42	17.2017	A	3.4
7	☐	50000.000	49935.101	9848475.48	33.2076	A	1.2
8	☐	250000.00	249887.88	50005497.99	165.8868	A	3.9

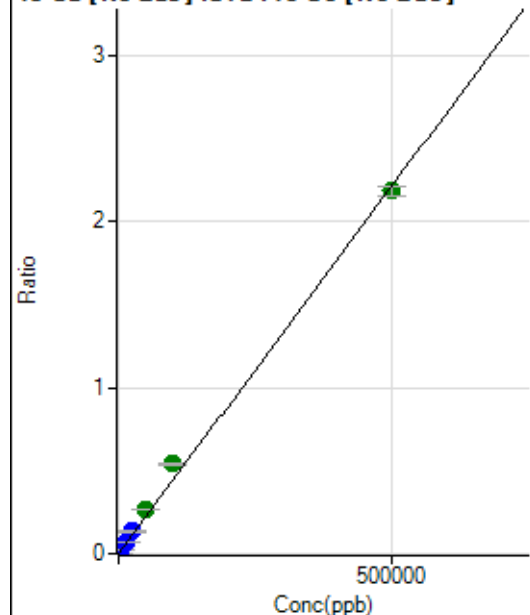
$$y = 6.6355E-004 * x + 0.0731$$

$$R = 1.0000$$

$$DL = 16.32$$

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	190.81	0.0000	P	7.5
2	☐	500.000	490.831	18066.17	0.0022	P	1.4
3	☐	5000.000	6066.965	226163.81	0.0269	P	1.7
4	☐	12500.000	14811.924	541872.75	0.0655	P	1.8
5	☐	25000.000	30344.061	1074721.69	0.1342	P	2.3
6	☐	50000.000	60182.085	2183346.85	0.2661	A	0.5
7	☐	100000.00	122580.71	4443174.77	0.5421	A	2.2
8	☐	500000.00	494129.98	17808495.84	2.1851	A	2.8

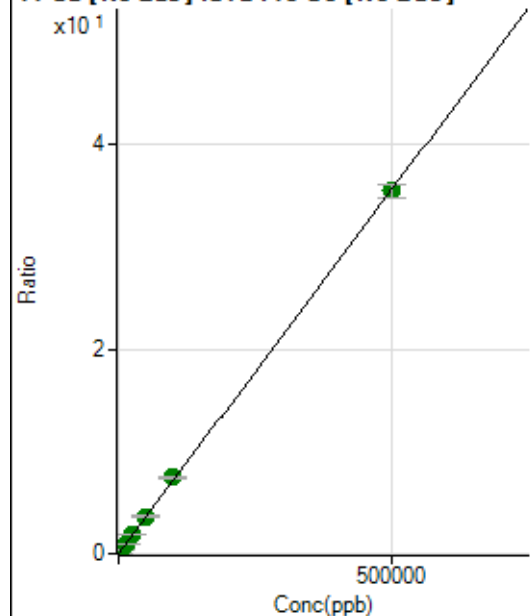
$$y = 4.4220\text{E-}006 * x + 2.2937\text{E-}005$$

$$R = 0.9988$$

$$DL = 1.167$$

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	12967.35	0.0016	P	1.6
2	☐	500.000	498.036	304381.30	0.0370	P	2.9
3	☐	5000.000	5422.455	3260134.68	0.3870	A	1.0
4	☐	12500.000	13135.486	7735073.88	0.9353	A	2.2
5	☐	25000.000	27262.274	15533980.68	1.9396	A	1.3
6	☐	50000.000	51504.679	30048264.48	3.6629	A	2.2
7	☐	100000.00	104765.27	61055932.36	7.4491	A	2.1
8	☐	500000.00	498763.25	288959354.1	35.4576	A	3.8

$$y = 7.1088\text{E-}005 * x + 0.0016$$

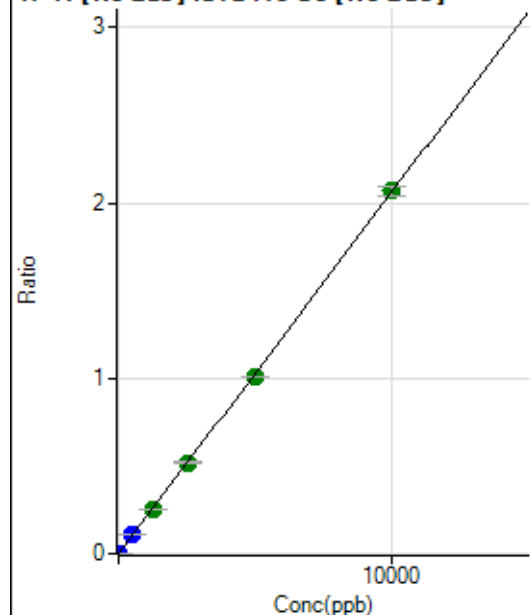
$$R = 0.9999$$

$$DL = 1.078$$

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	322.23	0.0000	P	26.0
2	☐	5.000	4.912	8644.49	0.0010	P	2.7
3	☐	500.000	520.410	902646.35	0.1072	P	1.0
4	☐	1250.000	1231.273	2096452.31	0.2535	A	2.6
5	☐	2500.000	2526.825	4165407.64	0.5202	A	2.5
6	☐	5000.000	4897.255	8270564.94	1.0081	A	0.6
7	☐	10000.000	10045.986	16947992.92	2.0679	A	2.4
8	☐			5423.43	0.0007	P	7.1

$$y = 2.0584\text{E-}004 * x + 3.8611\text{E-}005$$

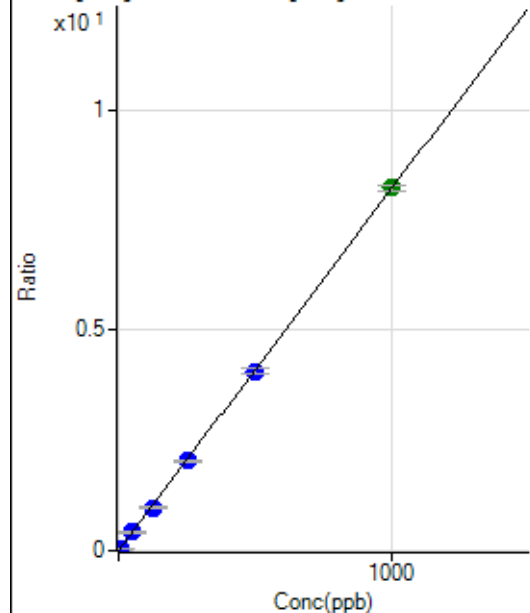
$$R = 0.9999$$

$$DL = 0.1464$$

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	59.2
2	☐	5.000	4.636	11476.92	0.0381	P	2.2
3	☐	50.000	50.717	123430.16	0.4162	P	2.9
4	☐	125.000	119.592	292655.59	0.9814	P	2.2
5	☐	250.000	249.536	584271.49	2.0476	P	2.0
6	☐	500.000	495.667	1164673.73	4.0672	P	3.4
7	☐	1000.000	1002.924	2440689.32	8.2296	A	1.4
8	☐			677.80	0.0023	P	15.1

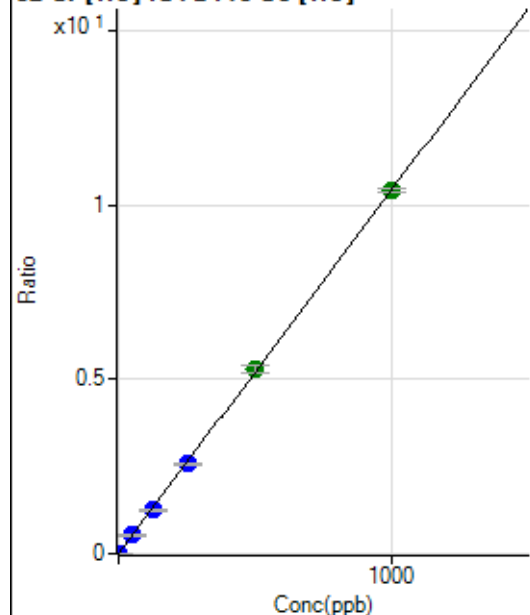
$$y = 0.0082 * x + 4.1372\text{E-}005$$

$$R = 1.0000$$

$$DL = 0.008962$$

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	866.70	0.0029	P	12.0
2	☐	2.000	1.819	6597.14	0.0219	P	1.7
3	☐	50.000	50.181	156173.09	0.5266	P	2.2
4	☐	125.000	118.826	370676.06	1.2430	P	2.4
5	☐	250.000	246.186	733940.75	2.5722	P	1.6
6	☐	500.000	507.346	1516765.67	5.2977	A	4.9
7	☐	1000.000	998.043	3090302.91	10.4188	A	1.0
8	☐			20083.12	0.0666	P	3.0

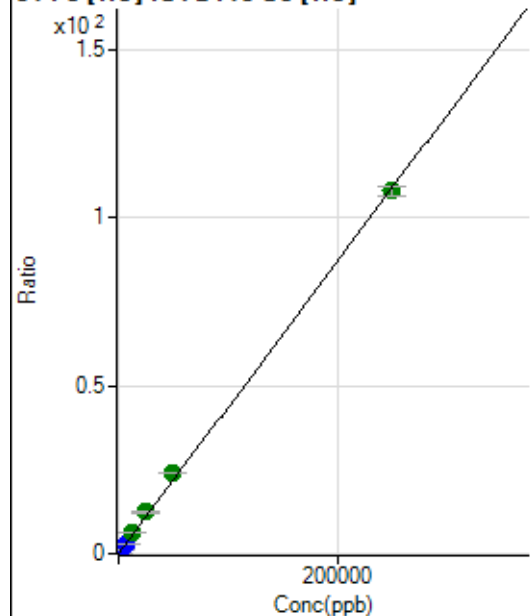
$$y = 0.0104 * x + 0.0029$$

$$R = 0.9999$$

$$DL = 0.1003$$

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	911.16	0.0031	P	8.5
2	☐	50.000	54.697	8078.36	0.0268	P	3.0
3	☐	2500.000	2847.449	367574.46	1.2394	P	1.1
4	☐	6250.000	6675.575	865177.25	2.9016	P	2.9
5	☐	12500.000	14351.994	1778943.11	6.2347	A	1.2
6	☐	25000.000	28586.475	3554224.65	12.4154	A	5.8
7	☐	50000.000	54845.940	7064177.65	23.8173	A	0.6
8	☐	250000.00	248565.45	32539447.72	107.9308	A	2.8

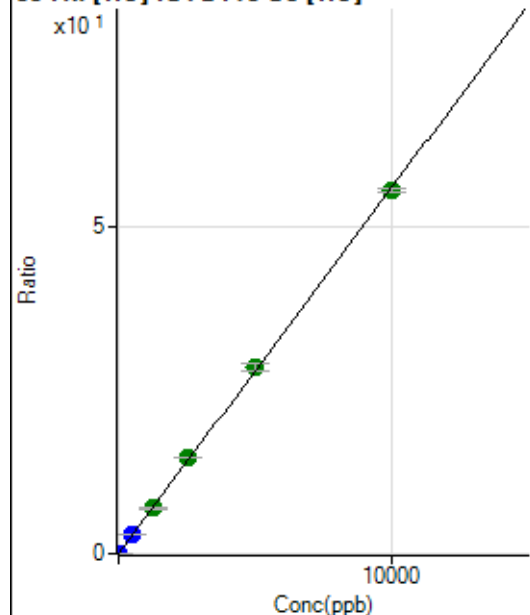
$$y = 4.3420E-004 * x + 0.0031$$

$$R = 0.9997$$

$$DL = 1.794$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	58.89	0.0002	P	6.7
2	☐	1.000	0.972	1696.79	0.0056	P	5.1
3	☐	500.000	516.721	856086.14	2.8868	P	1.7
4	☐	1250.000	1237.273	2061058.04	6.9122	A	3.8
5	☐	2500.000	2625.523	4185133.44	14.6676	A	0.7
6	☐	5000.000	5097.799	8153987.03	28.4789	A	4.6
7	☐	10000.000	9920.475	16439472.25	55.4206	A	1.0
8	☐			16637.58	0.0552	P	5.7

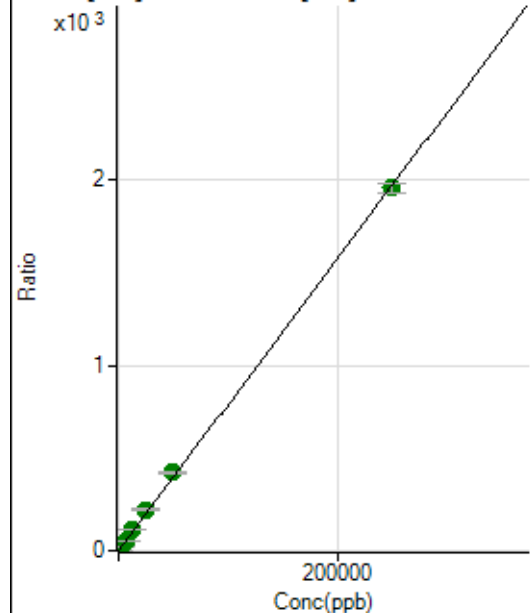
$$y = 0.0056 * x + 1.9774E-004$$

$$R = 0.9998$$

$$DL = 0.007132$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	5716.07	0.0192	P	4.9
2	☐	50.000	51.348	127441.87	0.4229	P	3.3
3	☐	2500.000	2836.787	6619311.72	22.3216	A	1.2
4	☐	6250.000	6776.095	15889210.66	53.2919	A	3.1
5	☐	12500.000	14149.798	31746980.80	111.2629	A	0.5
6	☐	25000.000	27808.935	62600318.07	218.6491	A	5.0
7	☐	50000.000	53603.066	125010362.9	421.4388	A	1.8
8	☐	250000.00	248899.48	589979761.3	1,956.831	A	2.5

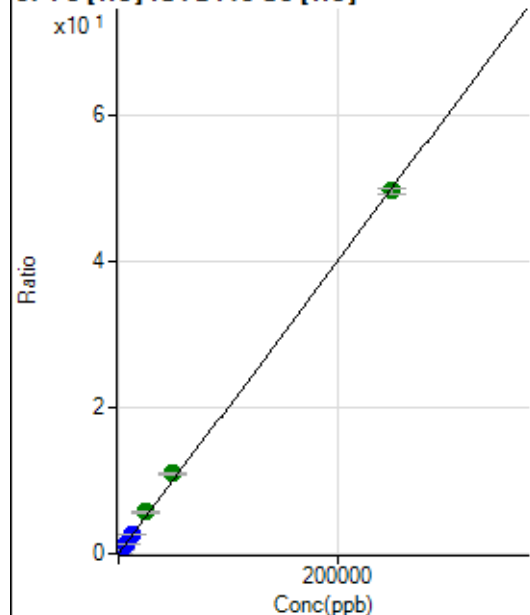
$$y = 0.0079 * x + 0.0192$$

$$R = 0.9998$$

$$DL = 0.357$$

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	246.30	0.0008	P	3.2
2	☐	50.000	49.823	3241.17	0.0108	P	2.7
3	☐	2500.000	2752.653	162894.32	0.5493	P	2.2
4	☐	6250.000	6493.058	386030.69	1.2947	P	2.8
5	☐	12500.000	13566.641	771618.18	2.7042	P	1.7
6	☐	25000.000	28359.586	1618530.39	5.6519	A	3.3
7	☐	50000.000	54743.212	3235810.17	10.9093	A	1.8
8	☐	250000.00	248653.46	14940579.27	49.5490	A	1.7

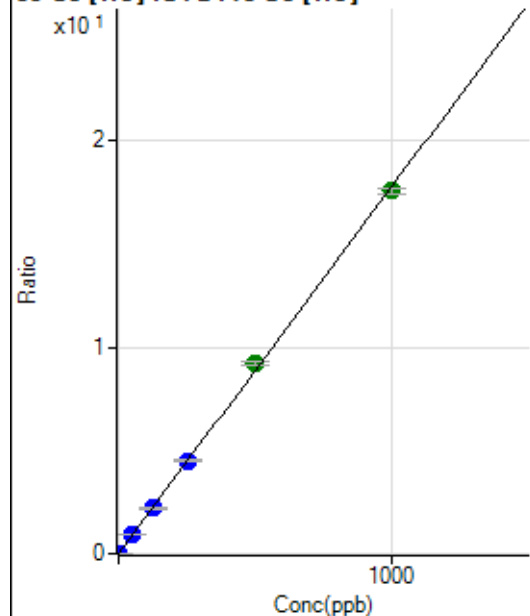
$$y = 1.9927E-004 * x + 8.2636E-004$$

$$R = 0.9997$$

$$DL = 0.3926$$

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	105.56	0.0004	P	23.0
2	☐	1.000	0.930	5084.30	0.0169	P	4.8
3	☐	50.000	52.157	274882.44	0.9269	P	3.0
4	☐	125.000	123.434	653896.58	2.1931	P	3.1
5	☐	250.000	253.855	1286887.35	4.5100	P	2.1
6	☐	500.000	519.451	2642861.11	9.2283	A	2.6
7	☐	1000.000	989.399	5213812.22	17.5768	A	1.8
8	☐			4811.98	0.0160	P	7.4

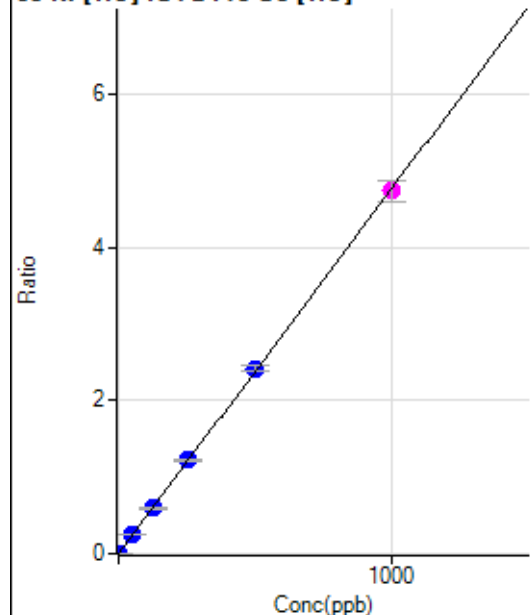
$$y = 0.0178 * x + 3.5570E-004$$

$$R = 0.9997$$

$$DL = 0.01381$$

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	50.00	0.0002	P	17.1
2	☐	1.000	0.998	1482.31	0.0049	P	7.4
3	☐	50.000	53.446	75502.86	0.2546	P	2.2
4	☐	125.000	124.344	176575.02	0.5921	P	2.3
5	☐	250.000	257.094	349273.98	1.2240	P	2.1
6	☐	500.000	506.728	690832.91	2.4124	P	3.1
7	☐	1000.000	994.772	1405168.56	4.7357	M	6.0
8	☐			3861.68	0.0128	P	4.4

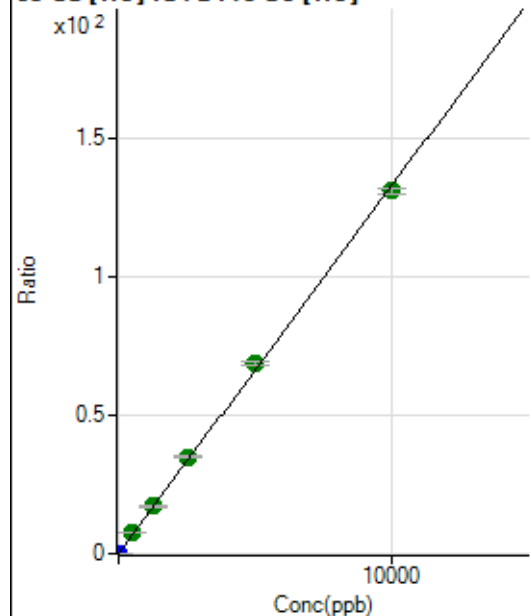
$$y = 0.0048 * x + 1.6776E-004$$

$$R = 0.9999$$

$$DL = 0.01808$$

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	1238.95	0.0042	P	3.0
2	☐	2.000	2.076	9543.28	0.0317	P	1.7
3	☐	500.000	561.383	2207139.55	7.4427	A	3.2
4	☐	1250.000	1291.426	5103715.13	17.1160	A	3.1
5	☐	2500.000	2635.339	9964745.41	34.9234	A	1.3
6	☐	5000.000	5183.434	19672558.60	68.6866	A	1.8
7	☐	10000.000	9866.201	38780259.70	130.7351	A	1.3
8	☐			11664.95	0.0387	P	11.0

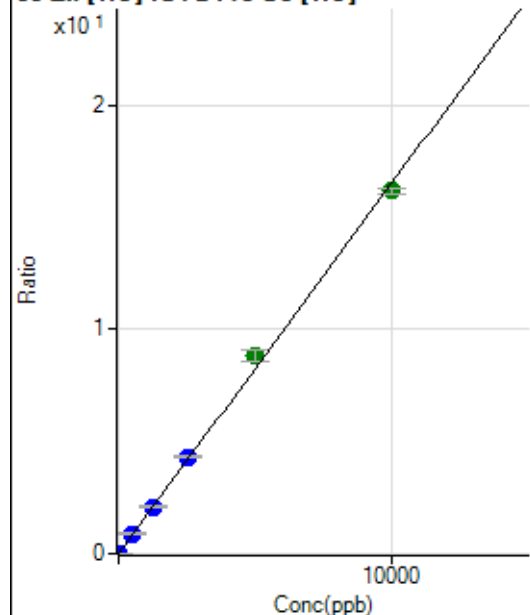
$$y = 0.0133 * x + 0.0042$$

$$R = 0.9996$$

$$DL = 0.02868$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	217.78	0.0007	P	10.0
2	☐	2.000	2.468	1448.98	0.0048	P	6.3
3	☐	500.000	540.664	264970.84	0.8935	P	2.4
4	☐	1250.000	1266.697	623929.77	2.0924	P	2.5
5	☐	2500.000	2608.633	1229307.44	4.3082	P	1.7
6	☐	5000.000	5340.226	2524786.70	8.8188	A	5.5
7	☐	10000.000	9798.608	4798680.52	16.1807	A	1.3
8	☐			3190.39	0.0106	P	2.3

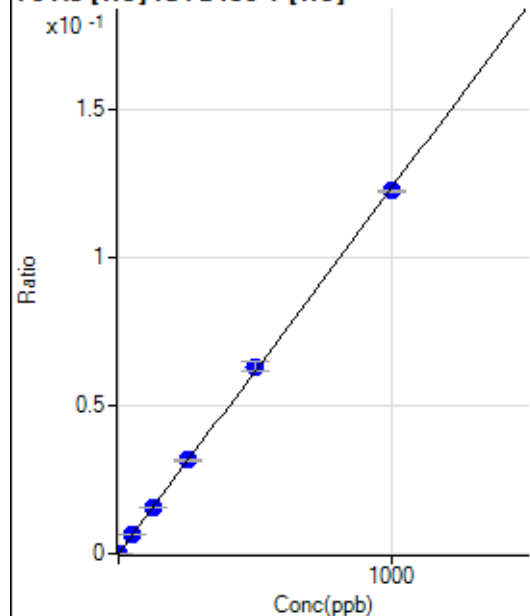
$$y = 0.0017 * x + 7.3221E-004$$

$$R = 0.9991$$

$$DL = 0.1332$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2.33	0.0000	P	24.5
2	☐	1.000	1.049	291.70	0.0001	P	8.8
3	☐	50.000	52.382	14471.20	0.0065	P	1.8
4	☐	125.000	125.544	34033.56	0.0155	P	2.3
5	☐	250.000	255.972	68019.71	0.0315	P	2.7
6	☐	500.000	511.422	136176.79	0.0630	P	5.2
7	☐	1000.000	992.609	272459.68	0.1223	P	0.9
8	☐			90.01	0.0000	P	14.8

$$y = 1.2317E-004 * x + 1.0372E-006$$

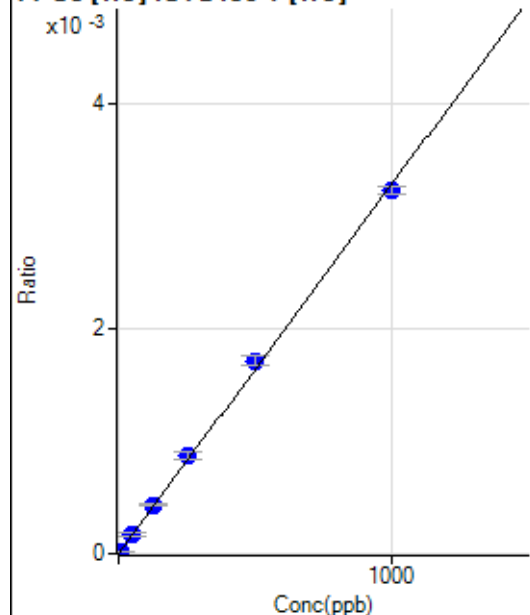
$$R = 0.9999$$

$$DL = 0.006191$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	0.00	0.0000	P	
2	☐	5.000	5.125	37.78	0.0000	P	30.1
3	☐	50.000	51.753	381.12	0.0002	P	13.7
4	☐	125.000	132.491	960.04	0.0004	P	6.9
5	☐	250.000	267.256	1894.59	0.0009	P	7.5
6	☐	500.000	523.093	3717.20	0.0017	P	4.9
7	☐	1000.000	983.115	7201.91	0.0032	P	2.0
8	☐			5.55	0.0000	P	124.

$$y = 3.2870\text{E-}006 * x + 0.0000\text{E+}000$$

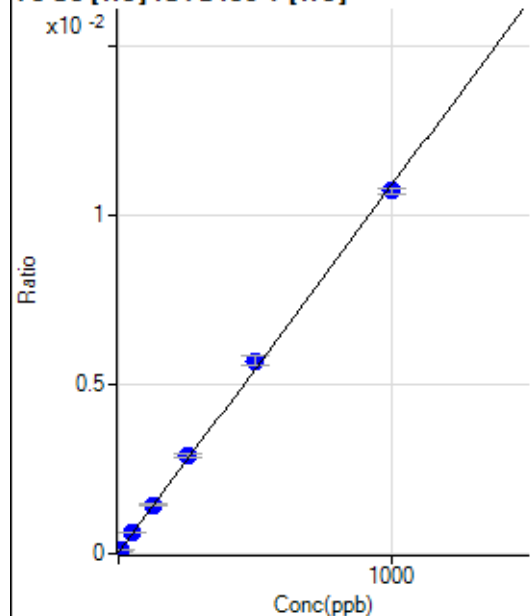
$$R = 0.9994$$

$$DL = 0$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	79.01	0.0000	P	5.8
2	☐	5.000	5.692	216.69	0.0001	P	6.6
3	☐	50.000	53.709	1384.88	0.0006	P	1.9
4	☐	125.000	129.512	3167.35	0.0014	P	4.1
5	☐	250.000	262.199	6211.67	0.0029	P	3.6
6	☐	500.000	521.954	12316.63	0.0057	P	5.3
7	☐	1000.000	985.221	23894.60	0.0107	P	1.9
8	☐			96.68	0.0000	P	11.0

$$y = 1.0848\text{E-}005 * x + 3.5070\text{E-}005$$

$$R = 0.9996$$

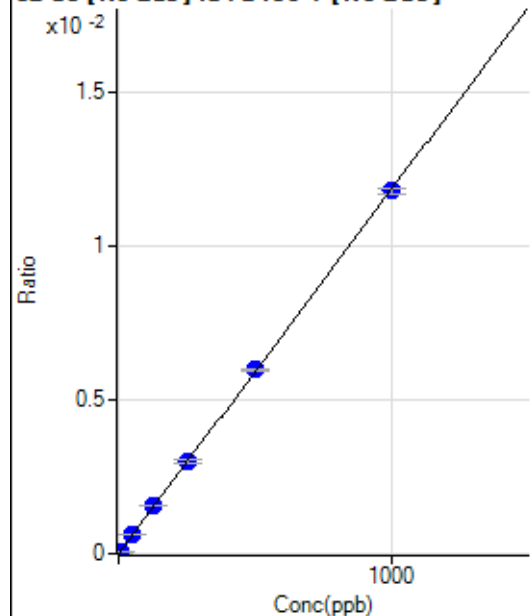
$$DL = 0.5665$$

Weight: <None>

Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			57862.66		P	3.1
2	☐			58347.30		P	4.4
3	☐			57880.61		P	4.6
4	☐			53914.19		P	0.8
5	☐			55394.87		P	1.5
6	☐			52593.78		P	2.4
7	☐			53374.01		P	0.6
8	☐			54476.86		P	1.2

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	34.16	0.0000	P	32.5
2	☐	5.000	4.829	1129.11	0.0001	P	1.8
3	☐	50.000	53.869	12412.19	0.0006	P	2.7
4	☐	125.000	131.528	29697.90	0.0016	P	0.7
5	☐	250.000	253.564	58022.60	0.0030	P	3.1
6	☐	500.000	504.485	112710.33	0.0060	P	1.6
7	☐	1000.000	995.858	221317.05	0.0118	P	1.3
8	☐			441.22	0.0000	P	11.1

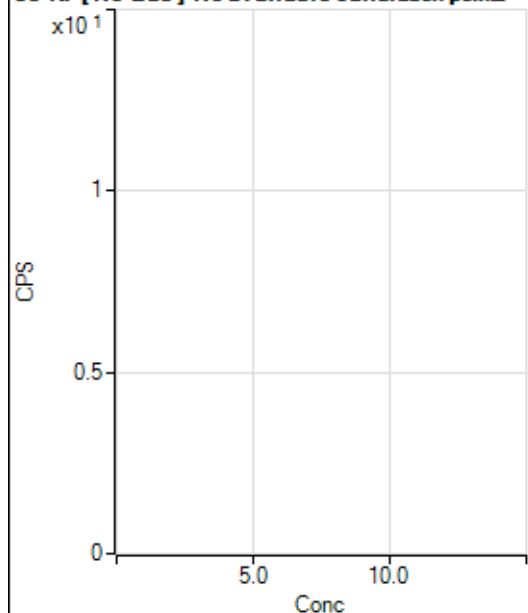
$$y = 1.1835E-005 * x + 1.7860E-006$$

$$R = 1.0000$$

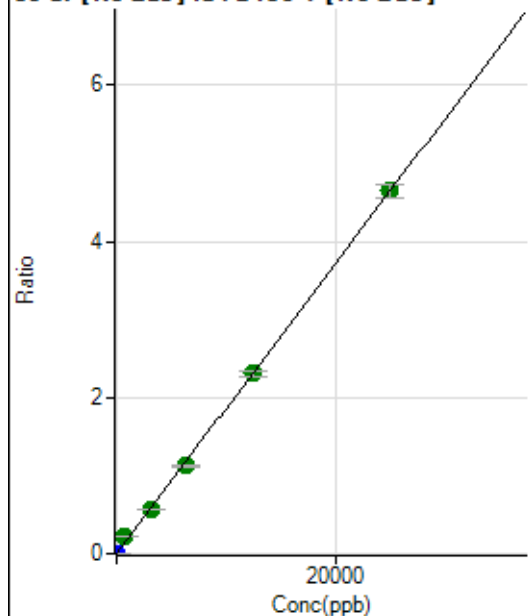
$$DL = 0.1472$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			379.54		P	2.4
2	☐			391.21		P	1.7
3	☐			368.29		P	7.8
4	☐			351.21		P	8.2
5	☐			378.29		P	4.0
6	☐			382.46		P	4.2
7	☐			396.62		P	9.5
8	☐			435.37		P	5.6

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	561.14	0.0000	P	1.6
2	☐	1.000	0.958	3961.79	0.0002	P	4.3
3	☐	625.000	1244.302	4479869.46	0.2307	A	1.5
4	☐	3125.000	3080.876	10881578.02	0.5711	A	2.4
5	☐	6250.000	6072.107	21753293.54	1.1255	A	1.6
6	☐	12500.000	12427.003	43464448.20	2.3034	A	2.5
7	☐	25000.000	25071.005	87219540.84	4.6469	A	3.6
8	☐			31217.02	0.0017	P	7.1

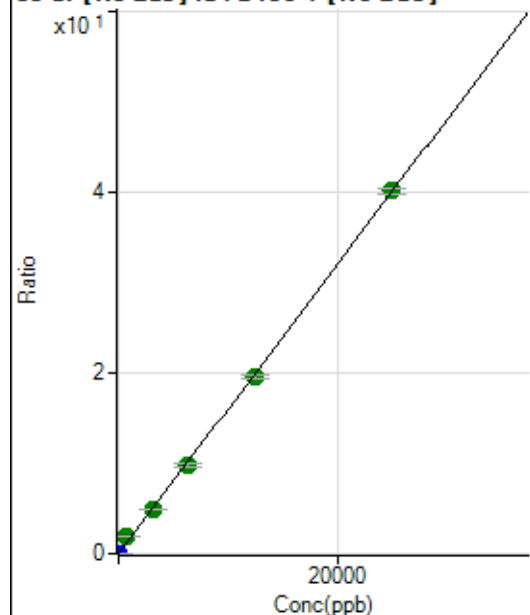
$$y = 1.8535E-004 * x + 2.9404E-005$$

$$R = 0.9996$$

$$DL = 0.00768$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	238.90	0.0000	P	16.2
2	☐	1.000	0.941	29067.18	0.0015	P	2.7
3	☐	625.000	1236.543	38395959.19	1.9773	A	1.3
4	☐	3125.000	3072.145	93623448.62	4.9126	A	0.6
5	☐	6250.000	6115.944	189002894.5	9.7798	A	3.1
6	☐	12500.000	12305.900	371356488.8	19.6779	A	2.1
7	☐	25000.000	25121.882	754178877.9	40.1714	A	1.6
8	☐			265909.63	0.0144	P	10.9

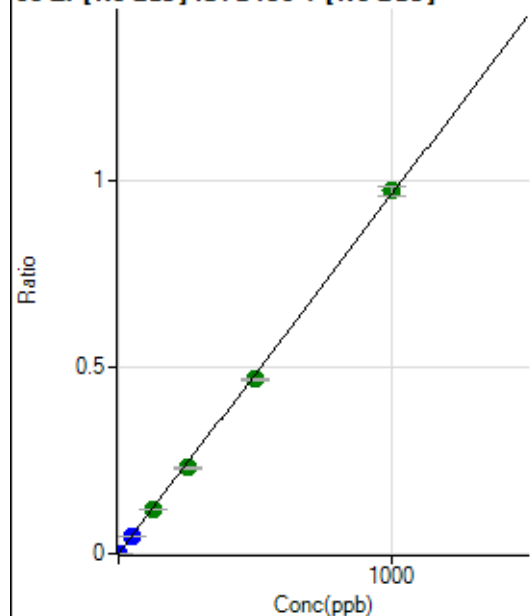
$$y = 0.0016 * x + 1.2544E-005$$

$$R = 0.9996$$

$$DL = 0.003809$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	747.26	0.0000	P	8.6
2	☐	1.000	0.904	17414.04	0.0009	P	0.7
3	☐	50.000	49.826	931633.94	0.0480	P	2.1
4	☐	125.000	121.775	2233899.16	0.1172	A	1.2
5	☐	250.000	240.040	4465037.30	0.2310	A	2.4
6	☐	500.000	484.997	8808548.20	0.4668	A	2.0
7	☐	1000.000	1010.403	18253673.67	0.9724	A	2.8
8	☐			6151.54	0.0003	P	6.6

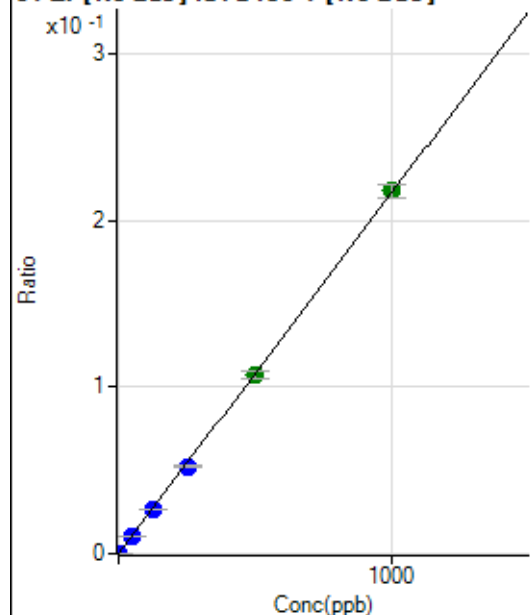
$$y = 9.6236E-004 * x + 3.9196E-005$$

$$R = 0.9998$$

$$DL = 0.01053$$

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	97.23	0.0000	P	13.6
2	☐	1.000	0.875	3739.50	0.0002	P	10.6
3	☐	50.000	49.455	208178.89	0.0107	P	1.9
4	☐	125.000	122.233	504886.60	0.0265	P	1.9
5	☐	250.000	240.605	1007730.21	0.0521	P	2.9
6	☐	500.000	495.136	2024579.36	0.1073	A	3.5
7	☐	1000.000	1005.154	4088620.10	0.2178	A	4.0
8	☐			1302.88	0.0001	P	8.4

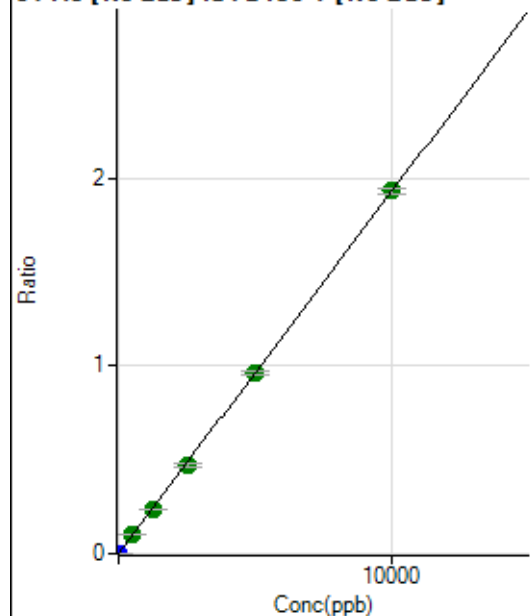
$$y = 2.1672\text{E-}004 * x + 5.0981\text{E-}006$$

$$R = 0.9999$$

$$DL = 0.009597$$

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	200.01	0.0000	P	13.2
2	☐	5.000	5.766	21469.93	0.0011	P	3.7
3	☐	500.000	507.825	1899771.07	0.0978	A	0.6
4	☐	1250.000	1220.308	4479878.14	0.2351	A	1.7
5	☐	2500.000	2428.580	9040039.70	0.4679	A	3.5
6	☐	5000.000	4990.404	18140620.55	0.9614	A	2.4
7	☐	10000.000	10025.973	36264126.16	1.9314	A	1.3
8	☐			13665.50	0.0007	P	9.8

$$y = 1.9264\text{E-}004 * x + 1.0462\text{E-}005$$

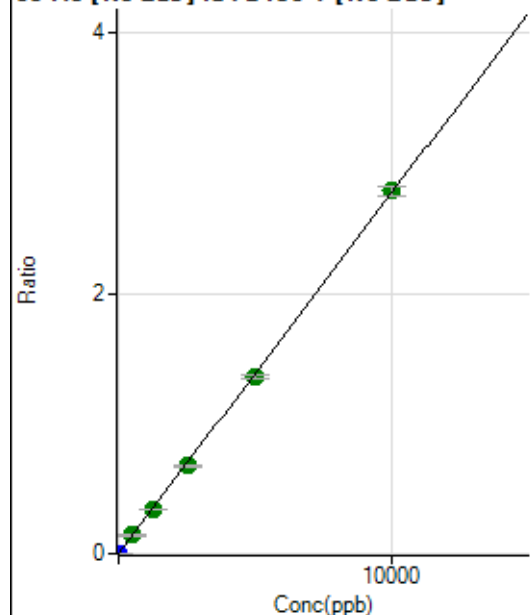
$$R = 1.0000$$

$$DL = 0.0215$$

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	44.45	0.0000	P	46.4
2	☐	5.000	4.827	25635.47	0.0013	P	2.6
3	☐	500.000	509.395	2737186.30	0.1410	A	1.7
4	☐	1250.000	1219.250	6430853.75	0.3374	A	2.1
5	☐	2500.000	2431.476	13003733.19	0.6730	A	3.1
6	☐	5000.000	4907.909	25634629.39	1.3583	A	1.6
7	☐	10000.000	10066.551	52299752.91	2.7861	A	2.6
8	☐			18260.03	0.0010	P	9.4

$$y = 2.7677\text{E-}004 * x + 2.3271\text{E-}006$$

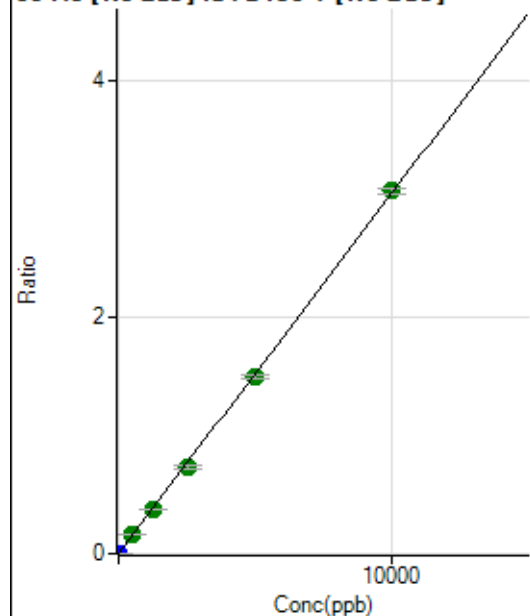
$$R = 0.9999$$

$$DL = 0.0117$$

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	219.45	0.0000	P	19.9
2	☐	5.000	4.857	28610.62	0.0015	P	1.5
3	☐	500.000	510.535	3024257.06	0.1558	A	1.3
4	☐	1250.000	1215.779	7067903.89	0.3709	A	1.3
5	☐	2500.000	2391.646	14098266.63	0.7296	A	3.9
6	☐	5000.000	4910.673	28267440.91	1.4981	A	3.1
7	☐	10000.000	10075.503	57711809.62	3.0738	A	1.7
8	☐			44830.47	0.0024	P	6.9

$$y = 3.0507\text{E-}004 * x + 1.1468\text{E-}005$$

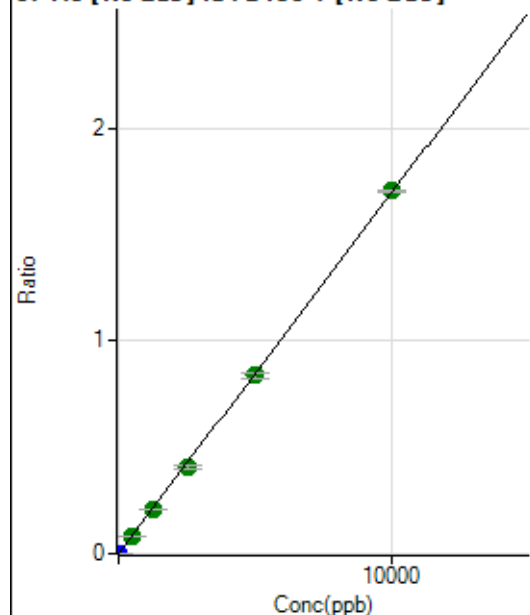
$$R = 0.9999$$

$$DL = 0.02239$$

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	22.22	0.0000	P	115.
2	☐	5.000	5.014	16315.64	0.0009	P	3.0
3	☐	500.000	504.270	1661366.84	0.0856	A	0.1
4	☐	1250.000	1234.940	3992787.98	0.2095	A	0.7
5	☐	2500.000	2404.277	7882098.87	0.4079	A	3.5
6	☐	5000.000	4940.151	15814796.71	0.8381	A	2.7
7	☐	10000.000	10055.524	32032736.13	1.7060	A	0.5
8	☐			11291.01	0.0006	P	8.1

$$y = 1.6966E-004 * x + 1.1825E-006$$

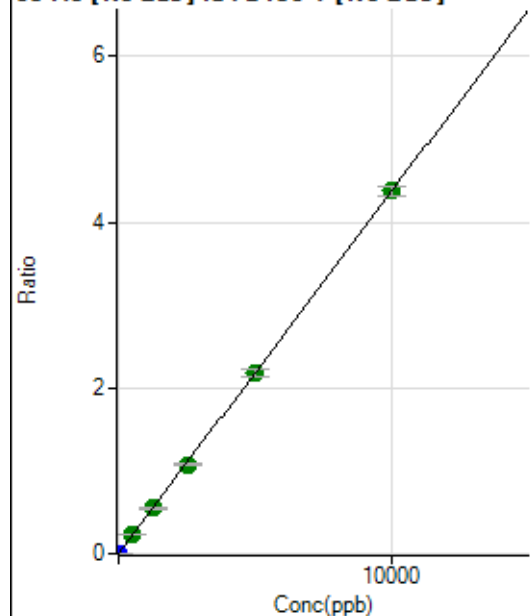
$$R = 0.9999$$

$$DL = 0.02425$$

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	69.45	0.0000	P	16.9
2	☐	5.000	4.857	40696.71	0.0021	P	3.6
3	☐	500.000	510.449	4329599.45	0.2230	A	1.9
4	☐	1250.000	1253.908	10440570.37	0.5478	A	1.8
5	☐	2500.000	2453.927	20717519.38	1.0720	A	2.8
6	☐	5000.000	4989.691	41121803.70	2.1798	A	3.9
7	☐	10000.000	10015.662	82137247.67	4.3754	A	2.5
8	☐			27122.37	0.0015	P	9.7

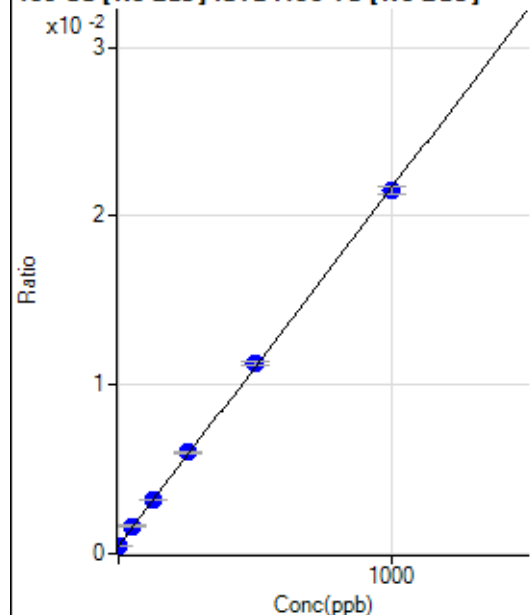
$$y = 4.3686E-004 * x + 3.6331E-006$$

$$R = 1.0000$$

$$DL = 0.004215$$

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	6529.53	0.0005	P	5.8
2	☐	1.000	0.688	6671.23	0.0005	P	3.8
3	☐	50.000	54.706	23014.32	0.0016	P	3.3
4	☐	125.000	130.467	45191.87	0.0032	P	0.5
5	☐	250.000	260.806	84697.67	0.0060	P	2.2
6	☐	500.000	508.783	156689.38	0.0112	P	1.5
7	☐	1000.000	991.989	298255.02	0.0215	P	2.3
8	☐			6237.70	0.0005	P	4.1

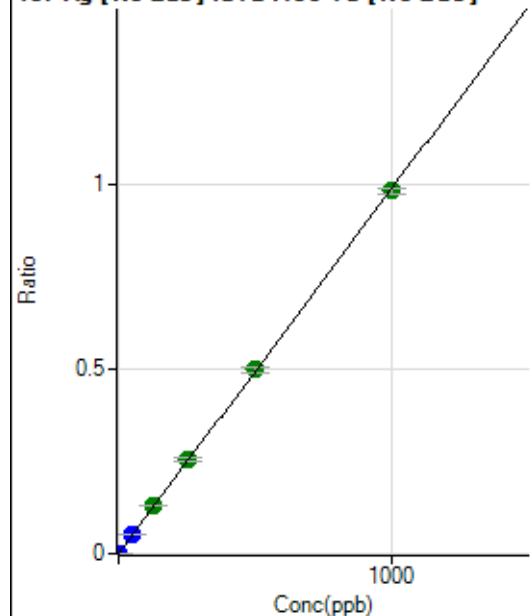
$$y = 2.1181\text{E-}005 * x + 4.6928\text{E-}004$$

$$R = 0.9999$$

$$DL = 3.848$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	305.57	0.0000	P	24.5
2	☐	1.000	1.011	14043.76	0.0010	P	2.4
3	☐	50.000	52.787	735981.79	0.0520	P	0.5
4	☐	125.000	132.609	1827019.31	0.1307	A	2.7
5	☐	250.000	257.732	3589319.91	0.2540	A	3.3
6	☐	500.000	504.584	6928383.57	0.4973	A	3.1
7	☐	1000.000	994.684	13612397.01	0.9803	A	1.4
8	☐			7919.17	0.0006	P	7.2

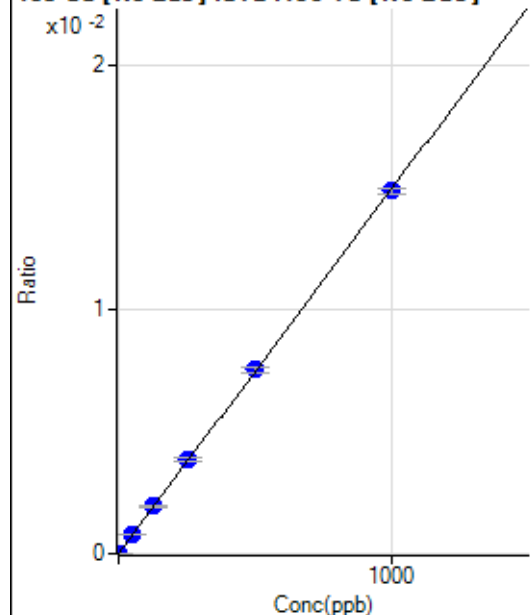
$$y = 9.8551\text{E-}004 * x + 2.1957\text{E-}005$$

$$R = 0.9999$$

$$DL = 0.01635$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	50.00	0.0000	P	37.1
2	☐	1.000	1.056	266.67	0.0000	P	8.4
3	☐	50.000	54.242	11489.62	0.0008	P	1.9
4	☐	125.000	129.636	27071.24	0.0019	P	3.2
5	☐	250.000	258.813	54589.78	0.0039	P	4.5
6	☐	500.000	504.338	104841.12	0.0075	P	2.5
7	☐	1000.000	994.836	206086.81	0.0148	P	1.9
8	☐			144.45	0.0000	P	16.7

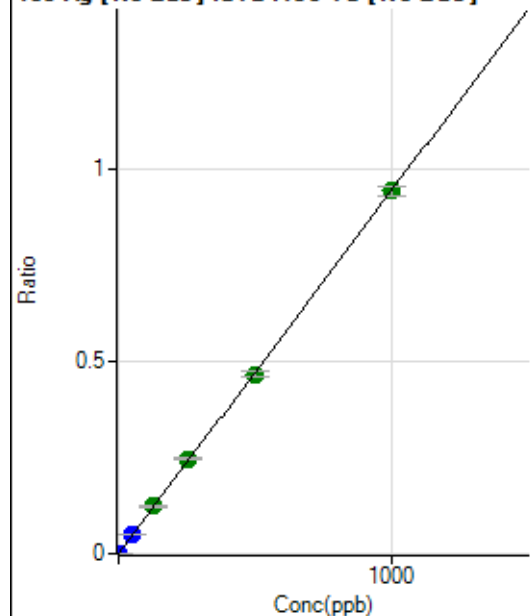
$$y = 1.4916\text{E-}005 * x + 3.5826\text{E-}006$$

$$R = 0.9999$$

$$DL = 0.2671$$

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	238.90	0.0000	P	23.3
2	☐	1.000	1.033	13645.99	0.0010	P	2.6
3	☐	50.000	53.357	710981.93	0.0503	P	2.1
4	☐	125.000	130.682	1721129.72	0.1231	A	1.9
5	☐	250.000	260.663	3471143.57	0.2456	A	1.5
6	☐	500.000	494.051	6483382.13	0.4655	A	3.4
7	☐	1000.000	999.430	13073029.03	0.9416	A	3.0
8	☐			7343.84	0.0005	P	5.4

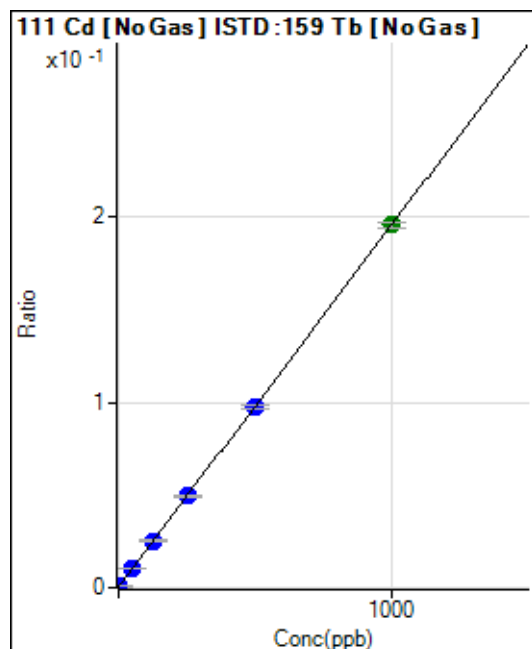
$$y = 9.4215\text{E-}004 * x + 1.7136\text{E-}005$$

$$R = 0.9999$$

$$DL = 0.01272$$

Weight: <None>

Min Conc: 0



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	4546.78	0.0003	P	5.9
2	☐	1.000	1.047	7323.80	0.0005	P	4.6
3	☐	50.000	52.943	150773.72	0.0107	P	2.2
4	☐	125.000	128.396	354993.23	0.0254	P	1.5
5	☐	250.000	251.805	699402.24	0.0495	P	2.5
6	☐	500.000	497.307	1357341.50	0.0974	P	1.8
7	☐	1000.000	1000.324	2716974.17	0.1956	A	1.5
8	☐			5363.95	0.0004	P	3.1

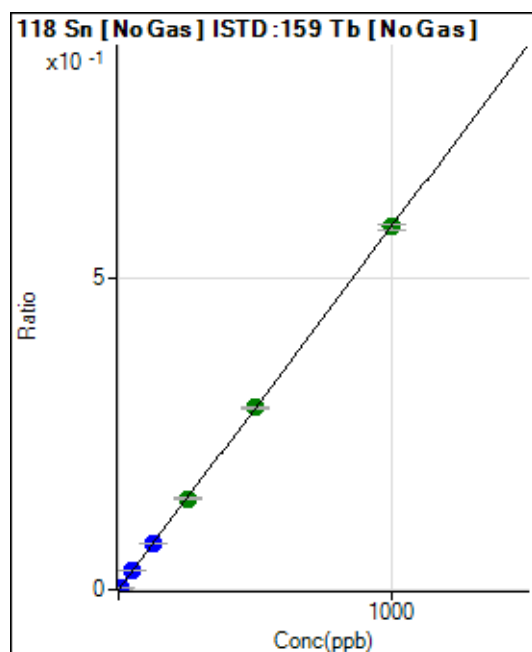
$$y = 1.9526\text{E-}004 * x + 3.2678\text{E-}004$$

$$R = 1.0000$$

$$DL = 0.2946$$

Weight: <None>

Min Conc: 0



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	972.35	0.0001	P	14.0
2	☐	5.000	5.091	41903.94	0.0030	P	1.1
3	☐	50.000	52.127	431008.45	0.0305	P	0.8
4	☐	125.000	127.732	1042606.44	0.0746	P	1.0
5	☐	250.000	250.612	2066950.67	0.1463	A	2.6
6	☐	500.000	500.543	4069257.03	0.2921	A	1.5
7	☐	1000.000	999.127	8095756.43	0.5829	A	1.5
8	☐			9845.49	0.0007	P	2.1

$$y = 5.8337\text{E-}004 * x + 6.9941\text{E-}005$$

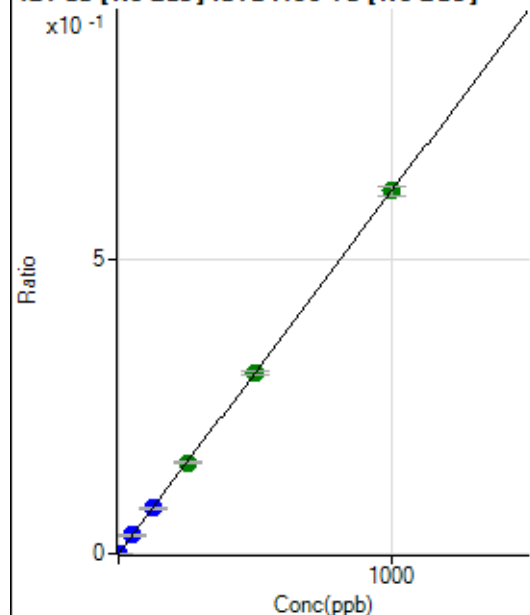
$$R = 1.0000$$

$$DL = 0.05027$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	44.45	0.0000	P	79.4
2	☐	2.000	1.909	16307.40	0.0012	P	1.0
3	☐	50.000	50.535	441434.60	0.0312	P	1.5
4	☐	125.000	124.863	1078090.36	0.0771	P	1.6
5	☐	250.000	250.610	2187533.10	0.1548	A	2.9
6	☐	500.000	498.029	4286173.01	0.3076	A	2.5
7	☐	1000.000	1000.823	8583855.92	0.6182	A	2.6
8	☐			5943.12	0.0004	P	12.3

$$y = 6.1772\text{E-}004 * x + 3.2144\text{E-}006$$

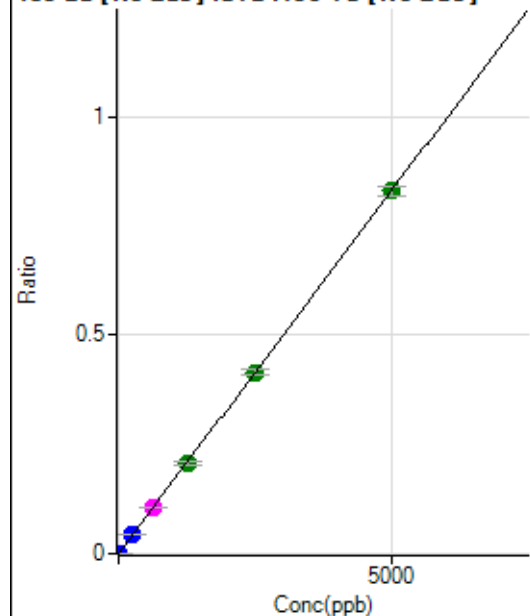
$$R = 1.0000$$

$$DL = 0.01239$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	11.11	0.0000	P	42.9
2	☐	10.000	9.469	21690.18	0.0016	P	3.3
3	☐	250.000	256.032	601497.70	0.0425	P	1.1
4	☐	625.000	630.469	1463848.93	0.1047	M	2.5
5	☐	1250.000	1249.922	2933699.09	0.2077	A	4.8
6	☐	2500.000	2500.799	5787249.13	0.4155	A	3.1
7	☐	5000.000	4998.636	11531366.49	0.8305	A	2.5
8	☐			7343.91	0.0005	P	8.4

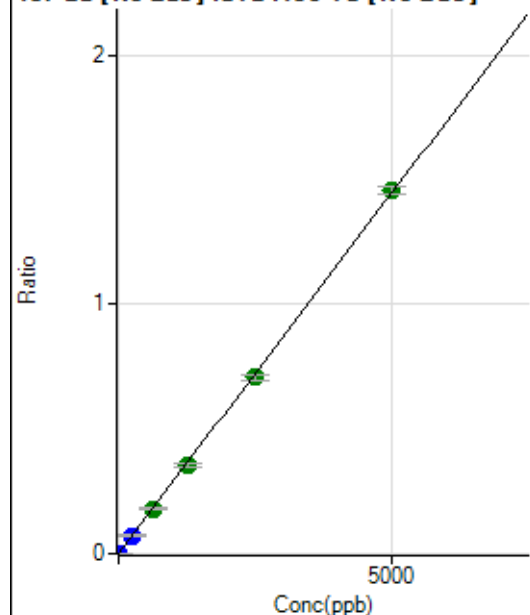
$$y = 1.6614\text{E-}004 * x + 7.9772\text{E-}007$$

$$R = 1.0000$$

$$DL = 0.006187$$

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	30.56	0.0000	P	56.3
2	☐	10.000	9.467	37745.22	0.0027	P	1.3
3	☐	250.000	253.111	1034263.78	0.0731	P	0.4
4	☐	625.000	626.285	2529488.88	0.1809	A	1.2
5	☐	1250.000	1224.971	5000654.36	0.3539	A	3.6
6	☐	2500.000	2443.524	9833947.96	0.7060	A	2.9
7	☐	5000.000	5034.180	20195419.20	1.4545	A	2.1
8	☐			12247.59	0.0009	P	8.8

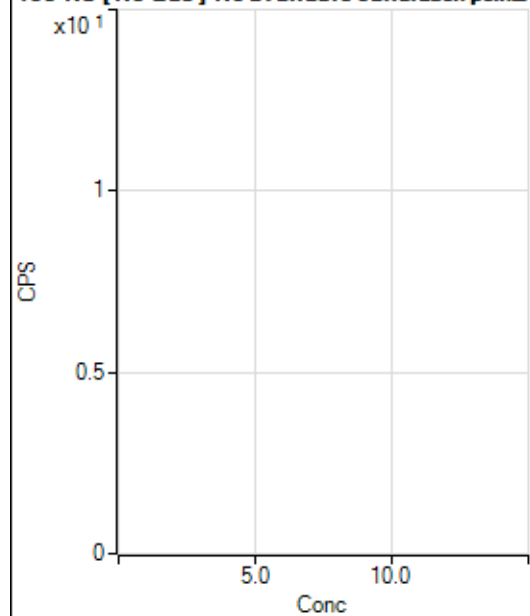
$$y = 2.8892E-004 * x + 2.1908E-006$$

$$R = 0.9999$$

$$DL = 0.01282$$

Weight: <None>

Min Conc: 0

150 Nd [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			4.44		P	173.
2	☐			4.45		P	86.6
3	☐			64.45		P	15.8
4	☐			153.34		P	15.1
5	☐			242.23		P	33.1
6	☐			508.91		P	11.9
7	☐			915.60		P	7.7
8	☐			80.00		P	8.3

150 Nd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			3.33		P	0.0
2	☐			2.22		P	86.6
3	☐			4.44		P	43.4
4	☐			11.11		P	69.3
5	☐			22.22		P	31.2
6	☐			35.56		P	21.6
7	☐			66.67		P	13.2
8	☐			30.00		P	22.2

156 Dy [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			13.89		P	69.3
2	☐			25.00		P	66.7
3	☐			50.00		P	28.9
4	☐			97.23		P	32.5
5	☐			169.45		P	35.6
6	☐			405.58		P	14.4
7	☐			644.48		P	0.7
8	☐			2103.00		P	5.4

156 Dy [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			5.55		P	124.
2	☐			4.44		P	114.
3	☐			22.22		P	22.9
4	☐			60.00		P	25.5
5	☐			76.67		P	26.5
6	☐			147.78		P	12.4
7	☐			288.89		P	16.4
8	☐			880.04		P	4.4

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			133.34		P	28.6
2	☐			144.45		P	14.5
3	☐			138.90		P	9.2
4	☐			152.78		P	51.6
5	☐			263.90		P	23.3
6	☐			375.02		P	16.8
7	☐			594.47		P	8.6
8	☐			2330.83		P	9.3

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			198.89		P	6.3
2	☐			161.11		P	13.3
3	☐			210.01		P	9.9
4	☐			246.67		P	13.0
5	☐			224.45		P	14.3
6	☐			317.79		P	9.5
7	☐			431.12		P	6.6
8	☐			1225.62		P	4.0

164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			113.89		P	36.1
2	☐			75.00		P	19.3
3	☐			119.45		P	24.5
4	☐			97.23		P	17.8
5	☐			94.45		P	18.4
6	☐			155.56		P	24.7
7	☐			213.90		P	32.4
8	☐			205.56		P	19.2

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			33.33		P	43.6
2	☐			37.78		P	36.7
3	☐			27.78		P	27.7
4	☐			36.67		P	50.6
5	☐			50.00		P	6.7
6	☐			48.89		P	35.0
7	☐			72.22		P	23.7
8	☐			65.55		P	50.9

172 Yb [No Gas] No available calibration points

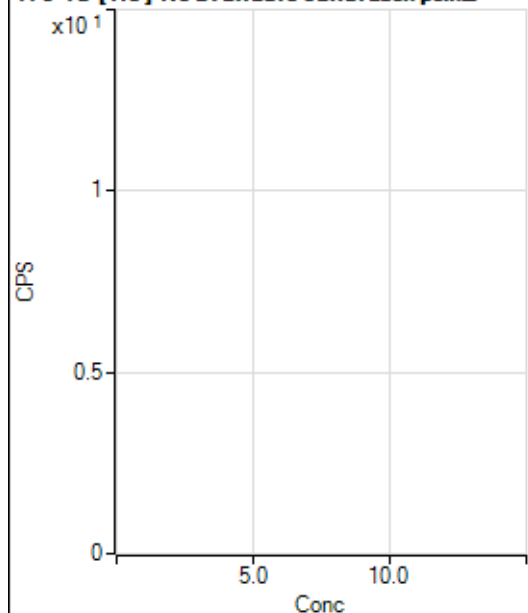
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			77.78		P	34.4
2	☐			91.67		P	32.8
3	☐			77.78		P	27.0
4	☐			125.00		P	48.1
5	☐			116.67		P	18.9
6	☐			188.90		P	21.8
7	☐			313.90		P	6.1
8	☐			783.38		P	15.7

172 Yb [He] No available calibration points

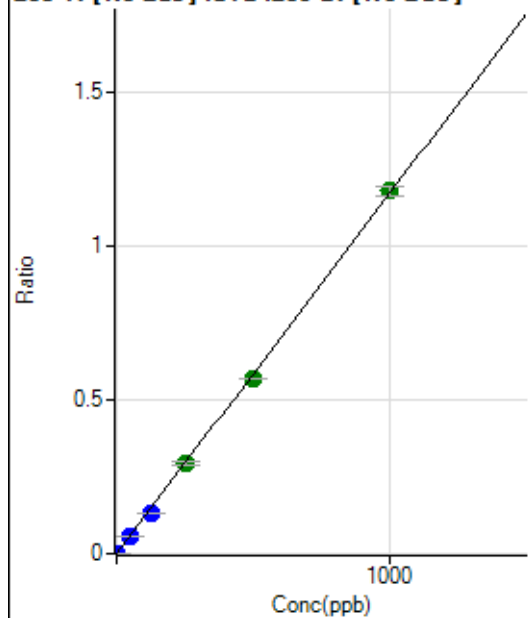
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			44.45		P	25.0
2	☐			29.63		P	54.1
3	☐			48.15		P	13.3
4	☐			42.60		P	7.5
5	☐			53.70		P	31.6
6	☐			72.22		P	38.5
7	☐			127.78		P	19.9
8	☐			337.05		P	6.9

176 Yb [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2264.15		P	4.1
2	☐			2330.84		P	8.0
3	☐			4153.56		P	4.8
4	☐			7038.21		P	5.6
5	☐			11474.79		P	3.0
6	☐			21465.22		P	2.3
7	☐			40527.18		P	0.2
8	☐			2569.78		P	2.2

176 Yb [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			13555.33		P	2.3
2	☐			14219.03		P	2.1
3	☐			14723.27		P	3.0
4	☐			15613.15		P	1.8
5	☐			17673.22		P	3.5
6	☐			21567.88		P	3.3
7	☐			29837.96		P	1.9
8	☐			14595.29		P	1.7

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	183.34	0.0000	P	18.7
2	☐	1.000	0.892	9033.99	0.0011	P	1.4
3	☐	50.000	46.908	465666.05	0.0549	P	2.3
4	☐	125.000	114.138	1130404.23	0.1334	P	1.0
5	☐	250.000	250.062	2397385.86	0.2923	A	3.4
6	☐	500.000	486.936	4683022.33	0.5692	A	0.5
7	☐	1000.000	1008.029	9171416.61	1.1784	A	2.4
8	☐			2747.60	0.0004	P	11.4

$$y = 0.0012 * x + 2.1667E-005$$

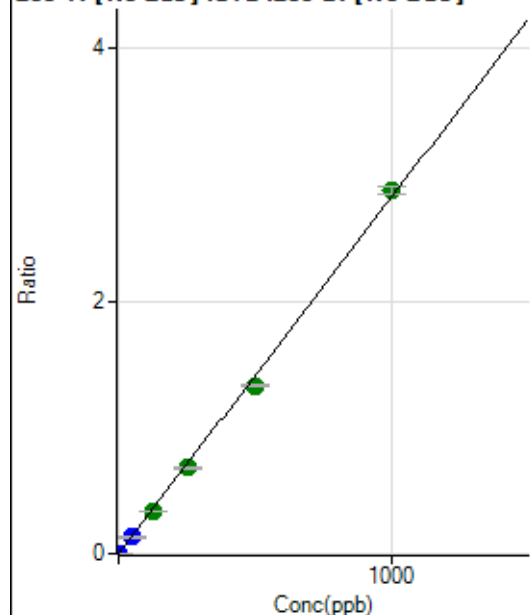
$$R = 0.9998$$

$$DL = 0.01041$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	313.90	0.0000	P	5.5
2	☐	1.000	0.872	21193.00	0.0025	P	4.1
3	☐	50.000	46.255	1107801.37	0.1305	P	3.2
4	☐	125.000	118.419	2829882.08	0.3341	A	3.0
5	☐	250.000	240.556	5565208.98	0.6786	A	3.8
6	☐	500.000	471.089	10931558.84	1.3289	A	1.8
7	☐	1000.000	1017.827	22346298.59	2.8712	A	2.2
8	☐			6243.39	0.0009	P	14.6

$$y = 0.0028 * x + 3.7066E-005$$

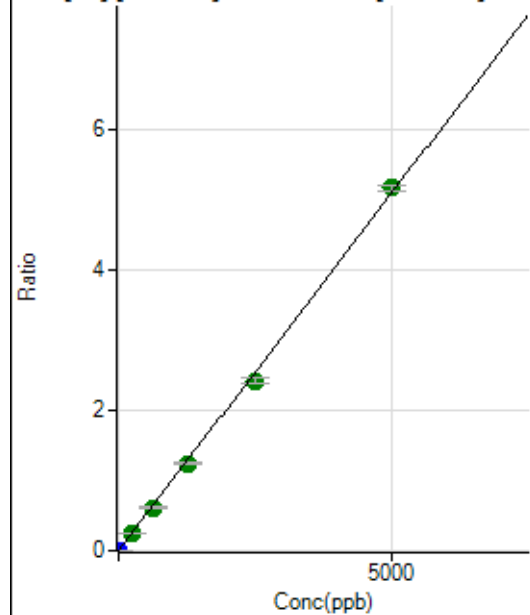
$$R = 0.9993$$

$$DL = 0.002177$$

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	1427.89	0.0002	P	4.5
2	☐	1.000	0.764	8052.66	0.0009	P	3.4
3	☐	250.000	240.449	2083702.51	0.2456	A	5.2
4	☐	625.000	597.416	5166090.45	0.6099	A	3.2
5	☐	1250.000	1215.711	10177581.01	1.2409	A	3.0
6	☐	2500.000	2373.391	19924090.26	2.4225	A	3.1
7	☐	5000.000	5075.802	40329076.36	5.1805	A	1.5
8	☐			11866.82	0.0017	P	9.0

$$y = 0.0010 * x + 1.6867E-004$$

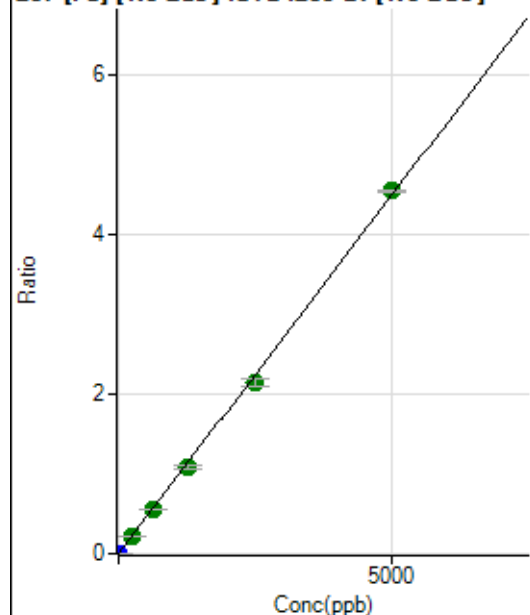
$$R = 0.9995$$

$$DL = 0.02251$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1127.85	0.0001	P	7.9
2	☐	1.000	0.860	7676.48	0.0009	P	3.6
3	☐	250.000	243.920	1857353.73	0.2189	A	4.3
4	☐	625.000	618.349	4698065.12	0.5546	A	4.0
5	☐	1250.000	1217.196	8950746.26	1.0917	A	4.6
6	☐	2500.000	2390.561	17631271.81	2.1439	A	3.7
7	☐	5000.000	5064.056	35363770.93	4.5414	A	0.5
8	☐			10237.65	0.0015	P	7.0

$$y = 8.9676E-004 * x + 1.3319E-004$$

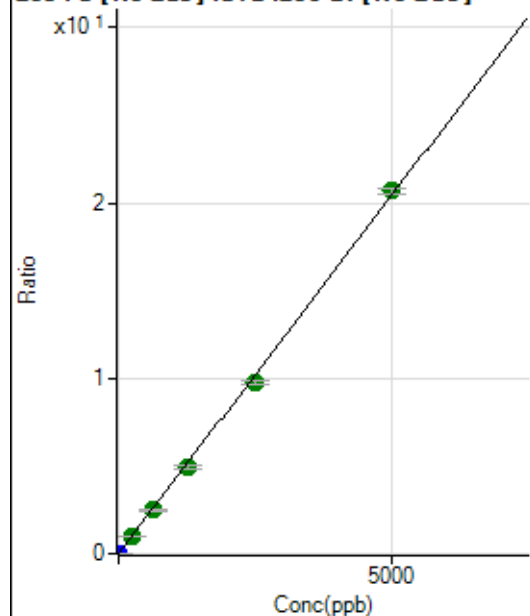
$$R = 0.9996$$

$$DL = 0.03509$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	5324.62	0.0006	P	2.8
2	☐	1.000	0.823	33845.81	0.0040	P	2.8
3	☐	250.000	241.466	8371485.39	0.9863	A	3.3
4	☐	625.000	604.114	20894487.30	2.4667	A	2.5
5	☐	1250.000	1211.523	40558974.52	4.9462	A	4.1
6	☐	2500.000	2393.489	80369918.12	9.7711	A	2.4
7	☐	5000.000	5065.912	160987770.4	20.6802	A	1.3
8	☐			46782.44	0.0067	P	8.3

$$y = 0.0041 * x + 6.2892E-004$$

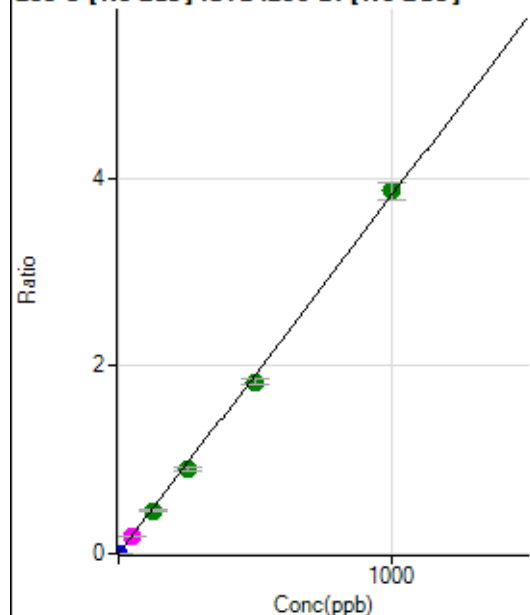
$$R = 0.9996$$

$$DL = 0.01312$$

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	33.33	0.0000	P	49.9
2	☐	1.000	0.871	28212.63	0.0033	P	1.4
3	☐	50.000	47.253	1530219.34	0.1802	M	2.8
4	☐	125.000	120.301	3885810.33	0.4587	A	1.8
5	☐	250.000	238.732	7463801.81	0.9103	A	4.7
6	☐	500.000	480.271	15064439.57	1.8313	A	2.9
7	☐	1000.000	1013.406	30059681.57	3.8642	A	4.5
8	☐			4312.09	0.0006	P	20.1

$$y = 0.0038 * x + 3.9379E-006$$

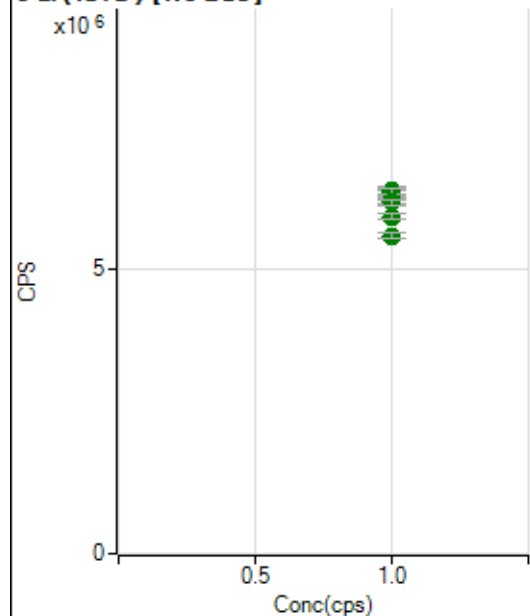
$$R = 0.9996$$

$$DL = 0.001545$$

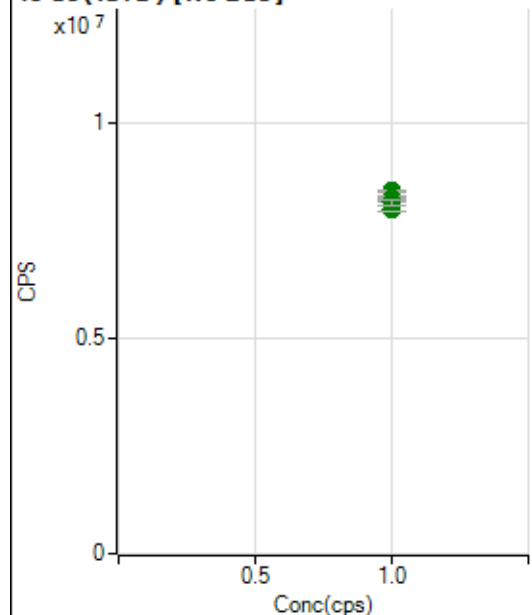
Weight: <None>

Min Conc: 0

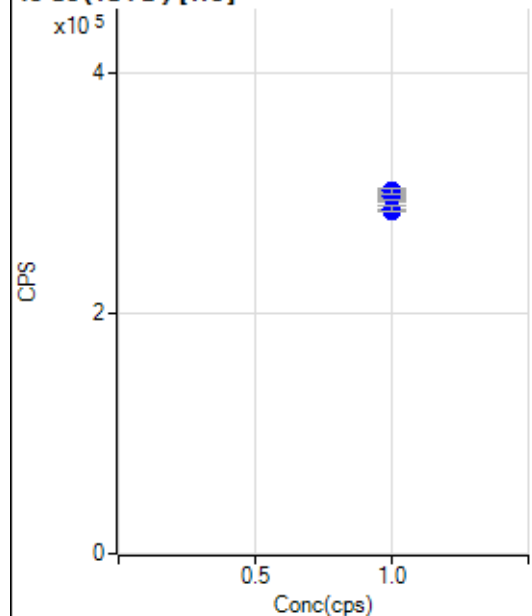
6 Li (ISTD) [No Gas]



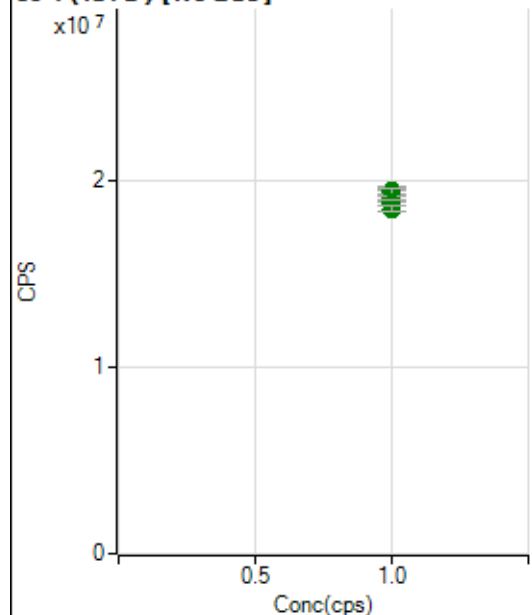
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6295056.20		A	2.1
2	☐	1.000		6271000.09		A	3.9
3	☐	1.000		6364866.43		A	2.6
4	☐	1.000		6358435.94		A	1.2
5	☐	1.000		6347133.13		A	1.7
6	☐	1.000		6166568.20		A	1.5
7	☐	1.000		5915890.63		A	2.0
8	☐	1.000		5580767.98		A	1.3

45 Sc (ISTD) [No Gas]

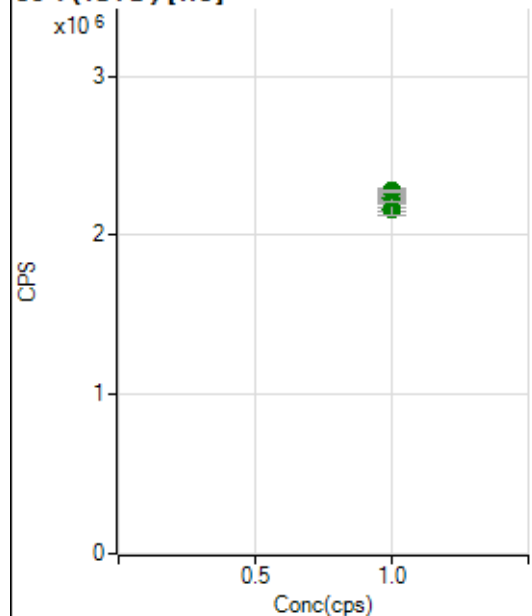
	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		8324403.35		A	1.6
2	☐	1.000		8237977.66		A	2.1
3	☐	1.000		8423282.58		A	0.5
4	☐	1.000		8269733.42		A	0.6
5	☐	1.000		8010109.95		A	1.7
6	☐	1.000		8203840.50		A	1.3
7	☐	1.000		8199419.60		A	2.8
8	☐	1.000		8152585.78		A	1.7

45 Sc (ISTD) [He]

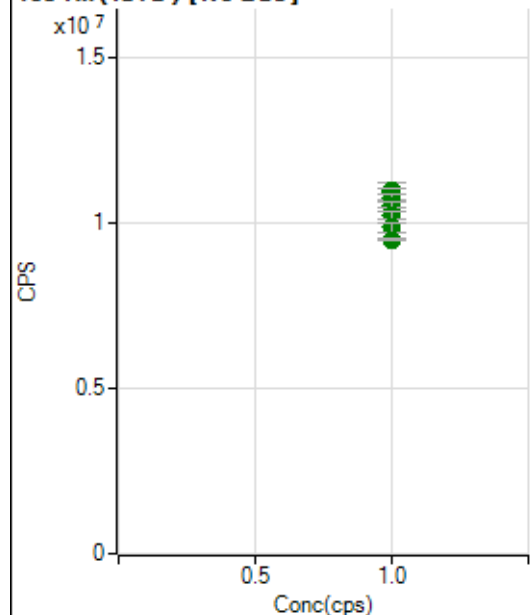
	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		297906.77		P	2.6
2	☐	1.000		301371.85		P	0.6
3	☐	1.000		296562.81		P	0.9
4	☐	1.000		298391.00		P	4.0
5	☐	1.000		285330.91		P	0.3
6	☐	1.000		286469.29		P	1.8
7	☐	1.000		296604.06		P	1.4
8	☐	1.000		301589.52		P	1.9

89 Y (ISTD) [No Gas]

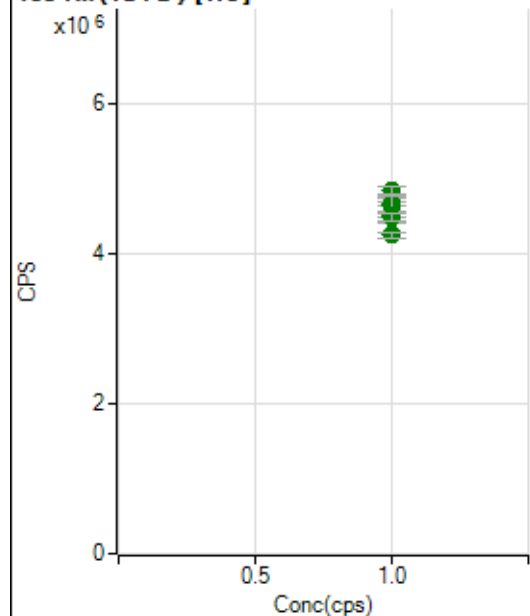
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		19085040.83		A	2.1
2	☐	1.000		19162593.74		A	3.3
3	☐	1.000		19418635.55		A	2.0
4	☐	1.000		19057223.19		A	1.1
5	☐	1.000		19331948.60		A	2.2
6	☐	1.000		18876448.75		A	2.3
7	☐	1.000		18777815.97		A	1.9
8	☐	1.000		18446002.92		A	1.5

89 Y (ISTD) [He]

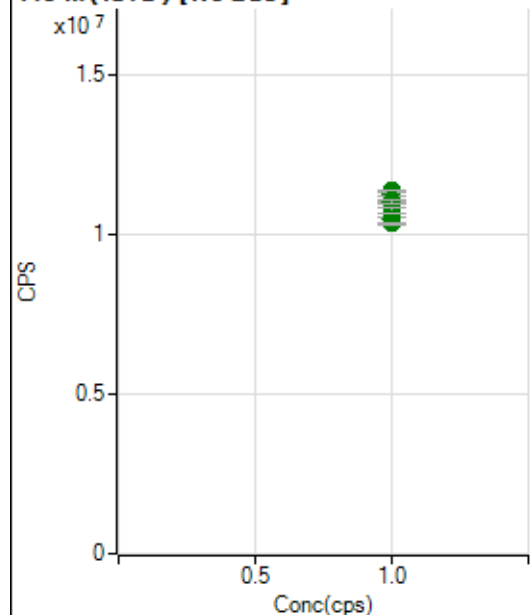
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2249984.59		A	3.4
2	☐	1.000		2238899.99		A	0.9
3	☐	1.000		2242189.38		A	1.4
4	☐	1.000		2202242.64		A	4.6
5	☐	1.000		2157702.71		A	1.0
6	☐	1.000		2164404.12		A	3.6
7	☐	1.000		2228448.75		A	1.5
8	☐	1.000		2278371.18		A	0.7

103 Rh (ISTD) [No Gas]

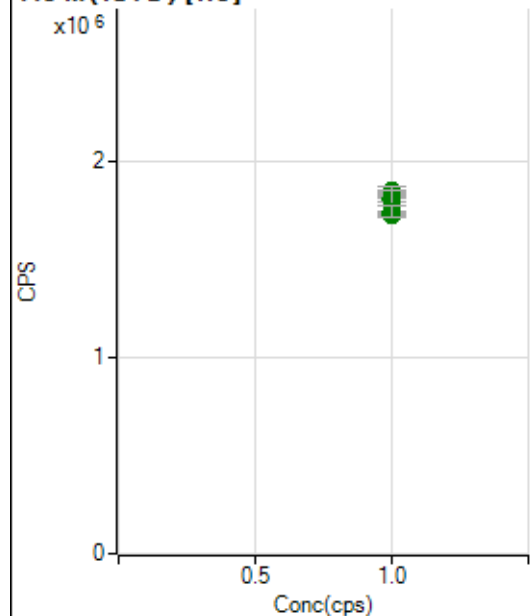
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		10965677.50		A	1.3
2	☐	1.000		10985235.14		A	4.6
3	☐	1.000		10979592.78		A	1.5
4	☐	1.000		10782664.65		A	2.2
5	☐	1.000		10554357.79		A	1.8
6	☐	1.000		10252864.12		A	2.4
7	☐	1.000		9878280.34		A	2.9
8	☐	1.000		9502721.13		A	0.4

103 Rh (ISTD) [He]

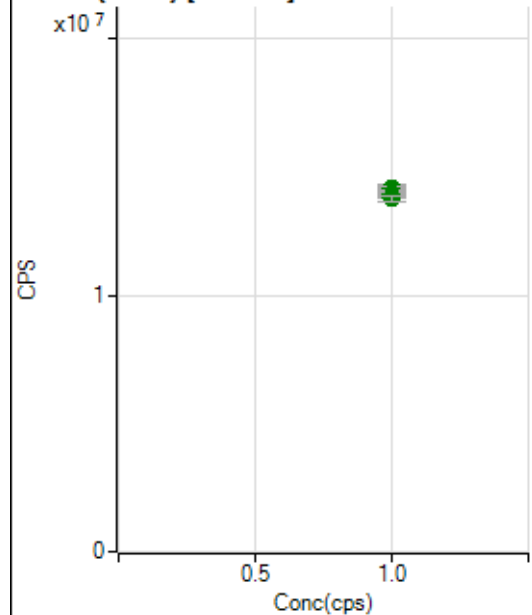
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4749526.11		A	0.1
2	☐	1.000		4836316.73		A	2.2
3	☐	1.000		4664900.10		A	1.6
4	☐	1.000		4650139.44		A	4.6
5	☐	1.000		4517170.59		A	0.9
6	☐	1.000		4488466.01		A	3.2
7	☐	1.000		4481809.06		A	2.1
8	☐	1.000		4246892.30		A	2.0

115 In (ISTD) [No Gas]

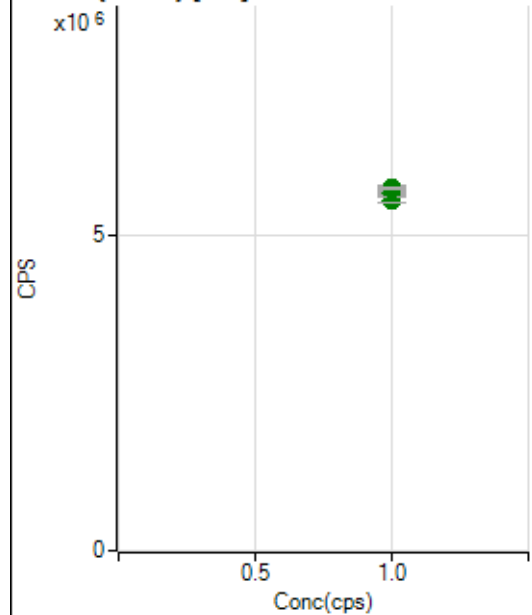
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		11301644.39		A	1.4
2	☐	1.000		11035087.69		A	1.0
3	☐	1.000		11385346.67		A	0.3
4	☐	1.000		11119380.05		A	1.8
5	☐	1.000		11029036.61		A	1.1
6	☐	1.000		10704795.61		A	2.4
7	☐	1.000		10507442.38		A	3.6
8	☐	1.000		10378739.18		A	0.6

115 In (ISTD) [He]

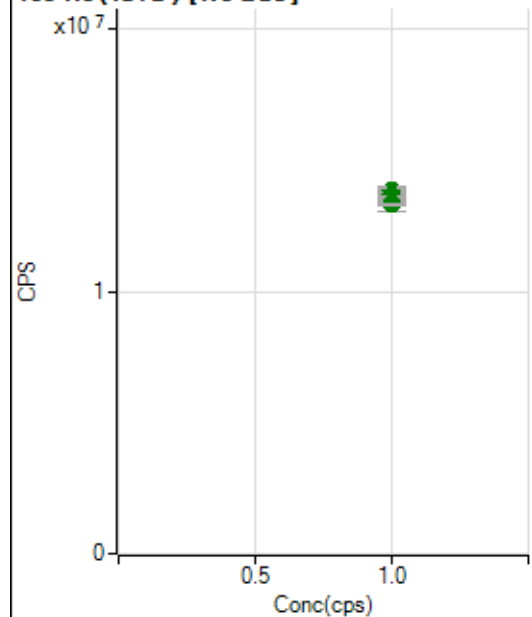
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1839443.60		A	1.2
2	☐	1.000		1852743.80		A	2.0
3	☐	1.000		1806933.32		A	0.8
4	☐	1.000		1817472.32		A	4.3
5	☐	1.000		1732454.02		A	0.9
6	☐	1.000		1729584.41		A	1.5
7	☐	1.000		1733305.06		A	1.8
8	☐	1.000		1748301.58		A	2.9

159 Tb (ISTD) [No Gas]

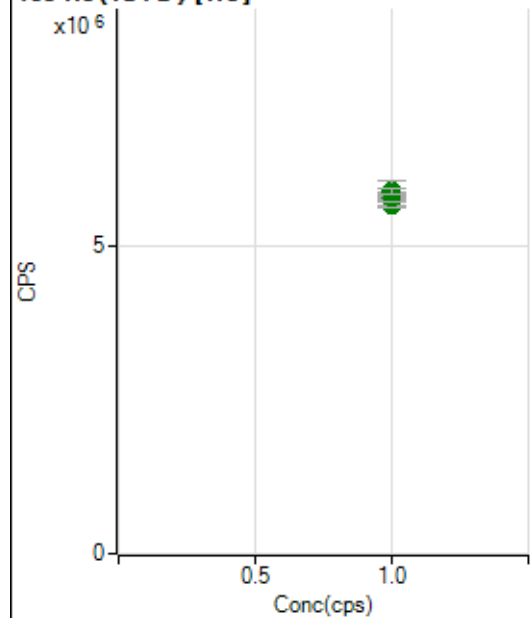
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		13914383.41		A	1.3
2	☐	1.000		13787075.49		A	2.2
3	☐	1.000		14142248.26		A	2.1
4	☐	1.000		13980270.90		A	2.3
5	☐	1.000		14135659.93		A	2.0
6	☐	1.000		13935030.35		A	2.1
7	☐	1.000		13888248.54		A	1.7
8	☐	1.000		13772726.60		A	1.8

159 Tb (ISTD) [He]

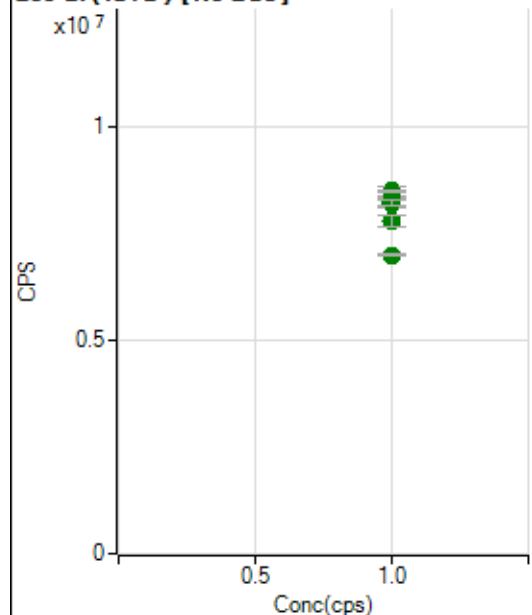
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5652577.48		A	0.4
2	☐	1.000		5629462.62		A	0.6
3	☐	1.000		5662668.94		A	1.1
4	☐	1.000		5736654.78		A	1.6
5	☐	1.000		5544825.79		A	1.6
6	☐	1.000		5670753.11		A	2.7
7	☐	1.000		5713156.65		A	0.3
8	☐	1.000		5737901.79		A	0.9

165 Ho (ISTD) [No Gas]

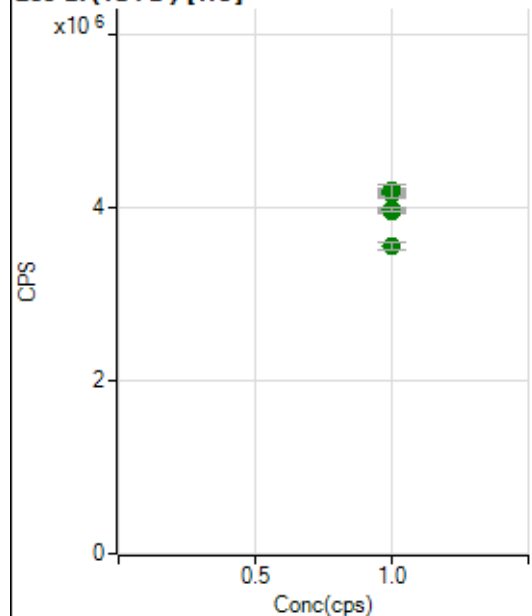
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		13528368.88		A	1.3
2	☐	1.000		13532999.44		A	4.4
3	☐	1.000		13829350.14		A	2.0
4	☐	1.000		13596306.90		A	2.8
5	☐	1.000		13709427.91		A	3.6
6	☐	1.000		13599128.43		A	0.9
7	☐	1.000		13305080.85		A	3.8
8	☐	1.000		13305744.31		A	1.1

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5794679.01		A	1.7
2	☐	1.000		5790701.51		A	1.1
3	☐	1.000		5756479.78		A	1.1
4	☐	1.000		5886957.00		A	5.4
5	☐	1.000		5644264.71		A	0.5
6	☐	1.000		5760986.86		A	3.4
7	☐	1.000		5766645.26		A	1.6
8	☐	1.000		5881076.93		A	1.7

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		8466875.08		A	0.6
2	☐	1.000		8488569.67		A	2.4
3	☐	1.000		8491950.78		A	2.4
4	☐	1.000		8471109.81		A	0.4
5	☐	1.000		8205811.27		A	2.7
6	☐	1.000		8227401.48		A	1.8
7	☐	1.000		7786370.93		A	3.2
8	☐	1.000		6991419.90		A	1.0

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4167289.56		A	0.4
2	☐	1.000		4164451.16		A	2.2
3	☐	1.000		4163406.43		A	1.1
4	☐	1.000		4189865.67		A	4.0
5	☐	1.000		3956213.45		A	0.7
6	☐	1.000		3958657.65		A	2.0
7	☐	1.000		3972725.04		A	1.1
8	☐	1.000		3547760.64		A	2.4

US EPA Tune Check Report

Operator Name Jaswal

Acq/Data Batch D:\Agilent\ICPMH\1\DATA\IP8122022 MS.b

Acq. Date-Time 2022-12-20 10:40:57

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		22853	228533.83			1.867	5.000
24		418272	4182718.17			1.895	5.000
25		57417	574171.07			2.197	5.000
26		65054	650535.18			2.452	5.000
59		121039	1210385.53			3.310	5.000
113		12594	125936.24			2.640	5.000
115		156916	1569155.71			2.764	5.000
206		34510	345097.72			2.906	5.000
207		30969	309687.38			3.516	5.000
208		73936	739356.10			4.072	5.000
220		0	4.20			34.297	

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

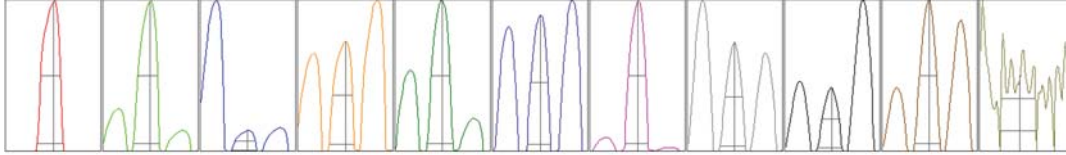
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	23162	22102	23039	22961	23003
24	421111	404863	417634	423463	424287
25	57810	55175	57987	57913	58200
26	65978	62330	66202	65812	64944
59	121592	114262	124947	122125	122266
113	12718	12006	12669	12777	12798
115	160826	149859	160043	157364	156487
206	34406	32821	35009	34967	35346
207	30829	29191	31289	31464	32071
208	73672	68846	75094	75761	76305

US EPA Tune Check Report

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

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	39261.85	9.05	8.90 - 9.10	
24	708581.20	24.00	23.90 - 24.10	
25	95819.26	25.00	24.90 - 25.10	
26	108458.86	26.05	25.90 - 26.10	
59	215692.44	59.00	58.90 - 59.10	
113	24366.45	113.05	112.90 - 113.10	
115	302084.91	115.05	114.90 - 115.10	
206	66703.24	206.00	205.90 - 206.10	
207	59858.09	207.00	206.90 - 207.10	
208	142870.63	208.00	207.90 - 208.10	
220	0.45	219.80	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.62	0.818	0.900	
24	0.63	0.821	0.900	
25	0.64	0.788	0.900	
26	0.63	0.787	0.900	
59	0.59	0.811	0.900	
113	0.54	0.732	0.900	
115	0.54	0.735	0.900	
206	0.54	0.805	0.900	
207	0.54	0.765	0.900	
208	0.53	0.809	0.900	
220	1.07	1.121		

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode --- Nebulizer Gas 0.87 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	1.40 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	10.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	-6.0 V	Omega Lens	10.8 V	Deflect	16.0 V
Extract 2	-195.0 V	Cell Entrance	-30 V	Plate Bias	-50 V
Omega Bias	-100 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	190 V		

QP Parameters

Mass Gain	124	Axis Gain	0.9992	QP Bias	-4.0 V
Mass Offset	124	Axis Offset	0.00		

Hardware Settings

Torch

Torch H	0.6 mm	Torch V	-0.8 mm
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EM

Discriminator	4.5 mV	Analog HV	2299 V	Pulse HV	1622 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		24780	247803.08			2.343	
89		51666	516656.36			2.137	
205		21970	219698.53			2.127	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	24804	24257	25539	24168	25133
89	52135	50863	52890	50192	52248
205	22210	21806	22311	21220	22302

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.87 L/min	Dilution Gas	0.40 L/min
RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.40 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	10.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	-6.0 V	Omega Lens	10.8 V	Deflect	4.2 V
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US EPA Tune Check Report

Extract 2	-195.0 V	Cell Entrance	-50 V	Plate Bias	-60 V
Omega Bias	-100 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	124	Axis Gain	0.9992	QP Bias	-13.0 V
Mass Offset	124	Axis Offset	0.00		

Hardware Settings

Torch

Torch H	0.6 mm	Torch V	-0.8 mm
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EM

Discriminator	4.5 mV	Analog HV	2299 V	Pulse HV	1622 V
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