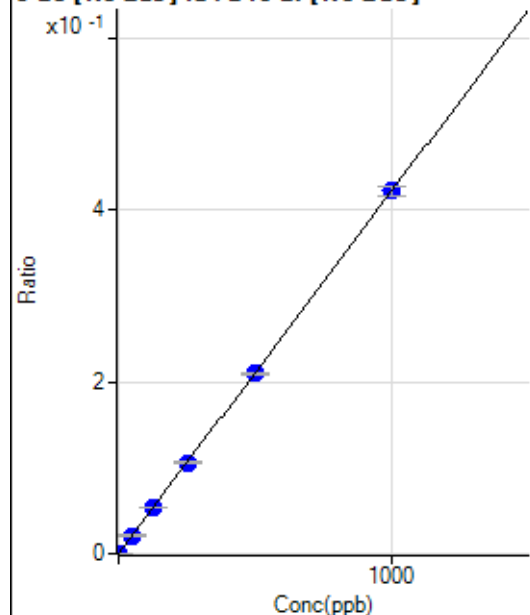


Batch Folder: D:\Agilent\ICPMH\1\DATA\P8101320IMS.b\
Analysis File: P8101320IMS.batch.bin
DA Date-Time: 2020-10-13 19:12:00
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	003CALB.d	S00	2020-10-13 12:53:23
2	004CALS.d	S02	2020-10-13 12:56:33
3	005CALS.d	S03	2020-10-13 12:59:41
4	006CALS.d	S04	2020-10-13 13:02:50
5	007CALS.d	S05	2020-10-13 13:05:52
6	008CALS.d	S06	2020-10-13 13:08:52
7	009CALS.d	S07	2020-10-13 13:11:51
8	010CALS.d	S08	2020-10-13 13:14:52

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	88.65	0.0001	P	13.3
2	☐	1.000	0.909	678.55	0.0004	P	4.7
3	☐	50.000	49.969	33245.35	0.0211	P	2.2
4	☐	125.000	126.279	83518.17	0.0532	P	1.9
5	☐	250.000	251.518	164875.17	0.1060	P	2.6
6	☐	500.000	496.470	331360.77	0.2092	P	1.6
7	☐	1000.000	1001.227	657469.59	0.4217	P	2.7
8	☐			353.94	0.0002	P	17.7

$$y = 4.2116\text{E-}004 * x + 5.8693\text{E-}005$$

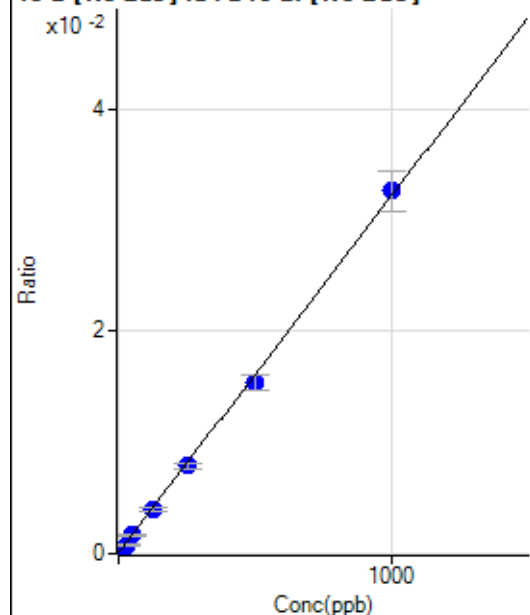
$$R = 1.0000$$

$$DL = 0.05563$$

$$BEC = 0.1394$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	135.97	0.0001	P	4.5
2	☐	25.000	21.377	1192.49	0.0008	P	13.0
3	☐	50.000	49.482	2645.06	0.0017	P	7.1
4	☐	125.000	120.861	6225.44	0.0040	P	9.6
5	☐	250.000	244.261	12362.78	0.0079	P	7.0
6	☐	500.000	476.464	24392.75	0.0154	P	8.4
7	☐	1000.000	1013.837	50838.15	0.0326	P	11.2
8	☐			8007.94	0.0051	P	8.9

$$y = 3.2114\text{E-}005 * x + 8.9989\text{E-}005$$

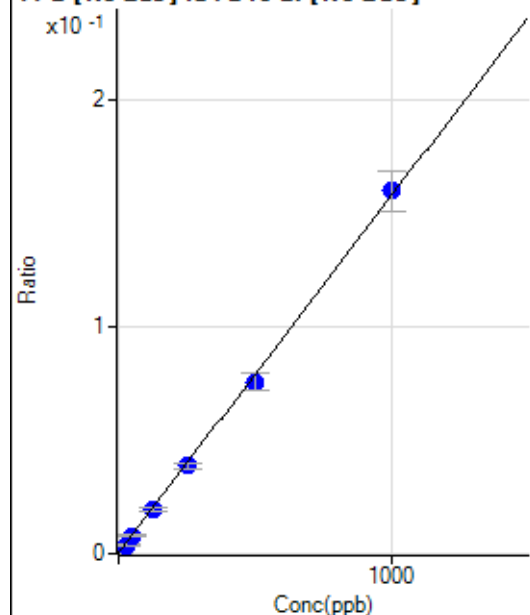
$$R = 0.9996$$

$$DL = 0.3796$$

$$BEC = 2.802$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	629.22	0.0004	P	3.8
2	☐	25.000	20.989	5721.33	0.0037	P	10.8
3	☐	50.000	48.165	12621.62	0.0080	P	10.8
4	☐	125.000	120.295	30383.36	0.0194	P	10.6
5	☐	250.000	242.781	60301.98	0.0387	P	7.4
6	☐	500.000	478.802	120302.04	0.0759	P	9.5
7	☐	1000.000	1013.184	249393.85	0.1602	P	11.3
8	☐			38479.69	0.0244	P	6.2

$$y = 1.5768\text{E-}004 * x + 4.1656\text{E-}004$$

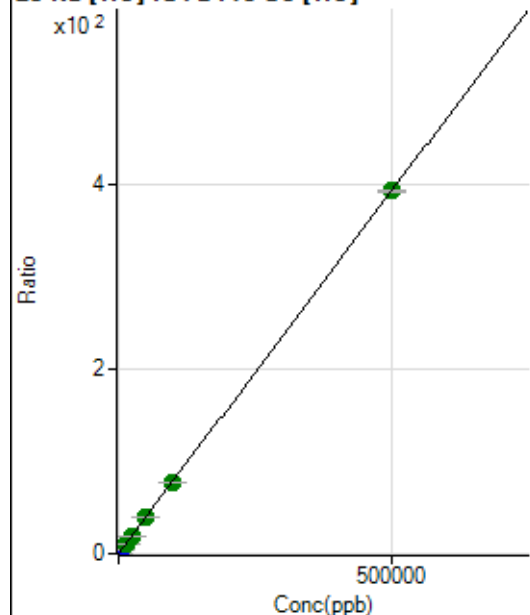
$$R = 0.9997$$

$$DL = 0.2995$$

$$BEC = 2.642$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	10034.27	0.0907	P	2.1
2	☐	500.000	478.143	51731.09	0.4661	P	0.8
3	☐	5000.000	5104.573	458085.99	4.0977	P	0.4
4	☐	12500.000	12752.728	1138314.75	10.1013	A	2.0
5	☐	25000.000	24763.662	2208800.42	19.5296	A	2.1
6	☐	50000.000	50499.439	4454040.16	39.7315	A	1.6
7	☐	100000.00	98552.084	8695580.49	77.4516	A	1.5
8	☐	500000.00	500244.11	46032344.43	392.7695	A	0.6

$$y = 7.8497\text{E-}004 * x + 0.0907$$

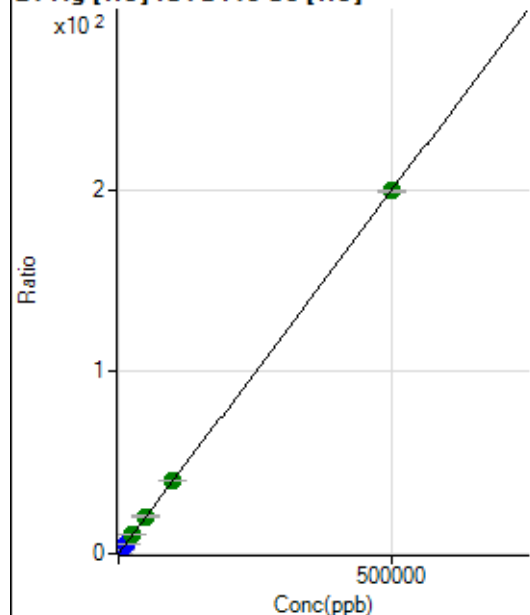
$$R = 1.0000$$

$$DL = 7.453$$

$$BEC = 115.6$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	355.57	0.0032	P	9.1
2	☐	500.000	492.035	22161.88	0.1997	P	0.5
3	☐	5000.000	5213.205	233036.84	2.0846	P	0.7
4	☐	12500.000	12932.263	582249.15	5.1665	P	1.2
5	☐	25000.000	25763.767	1163728.41	10.2896	A	2.6
6	☐	50000.000	51628.879	2311159.12	20.6165	A	2.0
7	☐	100000.00	100295.04	4496022.19	40.0469	A	1.7
8	☐	500000.00	499726.98	23383462.85	199.5236	A	0.6

$$y = 3.9926E-004 * x + 0.0032$$

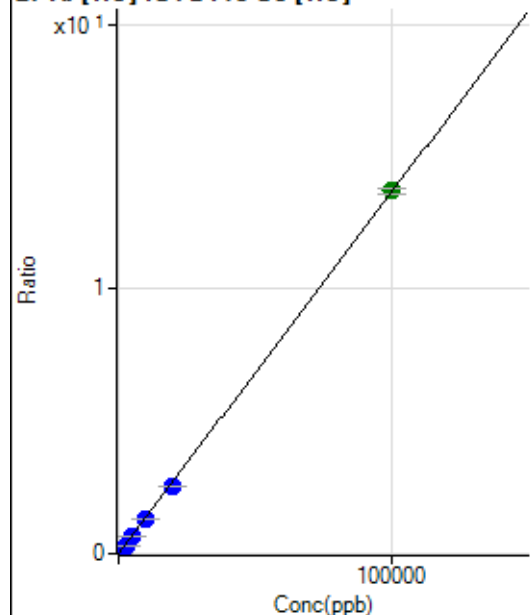
$$R = 1.0000$$

$$DL = 2.208$$

$$BEC = 8.057$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	207.48	0.0019	P	3.9
2	☐	20.000	18.927	494.95	0.0045	P	0.6
3	☐	1000.000	933.064	14443.69	0.1292	P	1.0
4	☐	2500.000	2335.878	36133.35	0.3206	P	0.3
5	☐	5000.000	4624.899	71594.90	0.6330	P	0.9
6	☐	10000.000	9457.850	144879.59	1.2925	P	2.4
7	☐	20000.000	18545.611	284335.27	2.5326	P	1.5
8	☐	100000.00	100368.62	1605246.47	13.6981	A	1.4

$$y = 1.3646E-004 * x + 0.0019$$

$$R = 0.9999$$

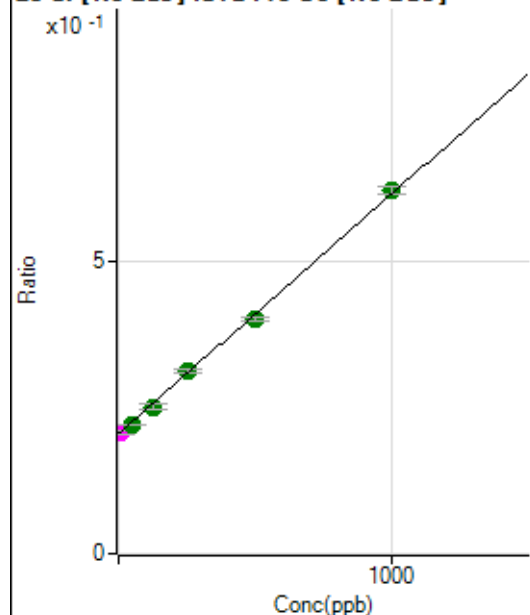
$$DL = 1.615$$

$$BEC = 13.75$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	823081.27	0.2063	P	0.7
2	☐	10.000	4.637	840232.23	0.2082	M	2.0
3	☐	50.000	35.646	916131.76	0.2209	A	0.8
4	☐	125.000	110.363	1031700.14	0.2516	A	3.8
5	☐	250.000	260.838	1273959.03	0.3135	A	1.5
6	☐	500.000	475.348	1678747.88	0.4017	A	1.4
7	☐	1000.000	1012.217	2554286.99	0.6224	A	2.0
8	☐			901644.62	0.2167	A	1.7

$$y = 4.1111\text{E-}004 * x + 0.2063$$

$$R = 0.9994$$

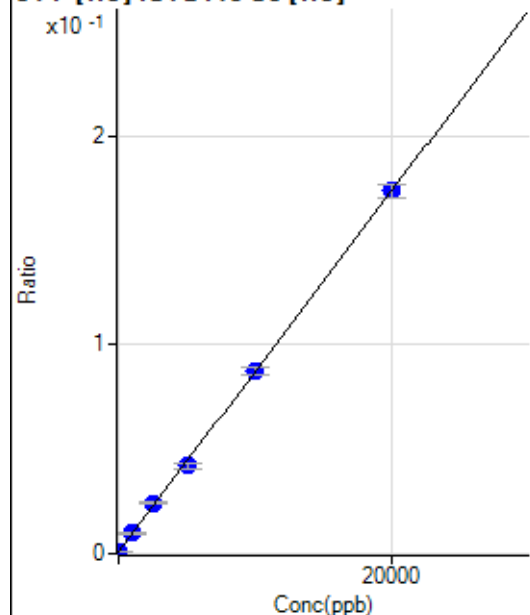
$$DL = 10.35$$

$$BEC = 501.7$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	-5.799	86.11	0.0008	P	48.4
2	☐	0.000	5.799	97.23	0.0009	P	13.4
3	☐	1000.000	1045.330	1102.85	0.0099	P	12.5
4	☐	2500.000	2722.265	2744.79	0.0244	P	3.3
5	☐	5000.000	4800.789	4787.04	0.0423	P	6.8
6	☐	10000.000	10006.823	9786.88	0.0873	P	4.6
7	☐	20000.000	20016.342	19516.30	0.1739	P	4.0
8	☐			100.00	0.0009	P	22.2

$$y = 8.6443\text{E-}006 * x + 8.2607\text{E-}004$$

$$R = 0.9999$$

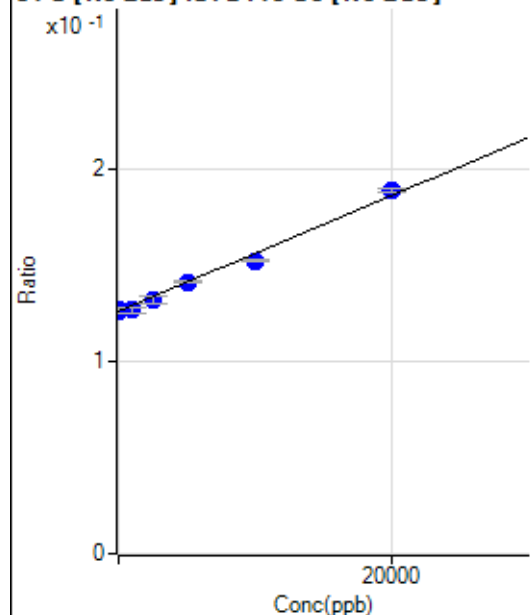
$$DL = 85.49$$

$$BEC = 95.56$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	134.858	505873.26	0.1268	P	0.7
2	☐	0.000	-134.858	508419.09	0.1260	P	1.7
3	☐	1000.000	228.321	526802.34	0.1271	P	2.2
4	☐	2500.000	1856.555	541087.69	0.1320	P	3.2
5	☐	5000.000	5074.645	575639.35	0.1416	P	0.9
6	☐	10000.000	8639.690	636829.42	0.1524	P	0.7
7	☐	20000.000	20780.508	775452.94	0.1889	P	0.9
8	☐			487394.80	0.1171	P	0.8

$$y = 3.0115E-006 * x + 0.1264$$

$$R = 0.9962$$

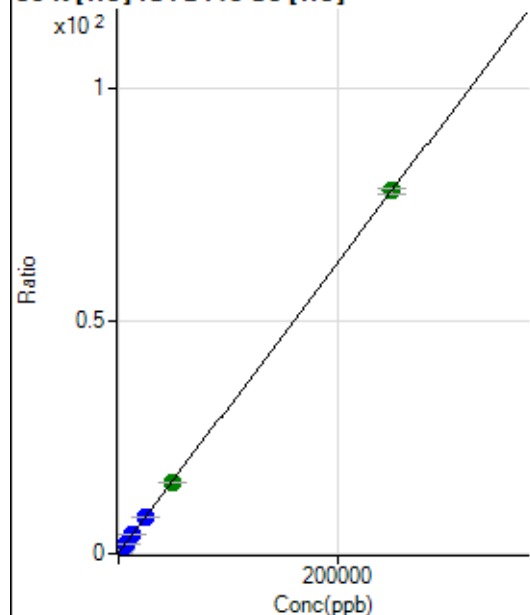
$$DL = 1485$$

$$BEC = 4.196E+04$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	17594.52	0.1591	P	1.1
2	☐	500.000	457.217	33417.07	0.3011	P	2.4
3	☐	2500.000	2515.269	105117.78	0.9403	P	0.7
4	☐	6250.000	6283.297	237863.20	2.1106	P	1.4
5	☐	12500.000	12390.549	453270.27	4.0075	P	1.1
6	☐	25000.000	25070.243	890712.93	7.9457	P	1.8
7	☐	50000.000	48524.675	1709926.90	15.2304	A	1.9
8	☐	250000.00	250292.61	9128626.16	77.8978	A	1.4

$$y = 3.1059E-004 * x + 0.1591$$

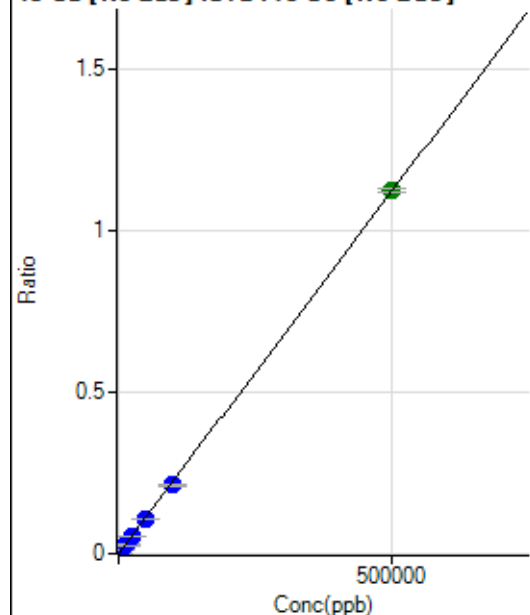
$$R = 1.0000$$

$$DL = 16.2$$

$$BEC = 512.2$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	312.47	0.0001	P	2.1
2	☐	500.000	442.047	4307.62	0.0011	P	2.2
3	☐	5000.000	4771.630	44589.25	0.0108	P	1.3
4	☐	12500.000	11995.192	110338.69	0.0269	P	3.6
5	☐	25000.000	23916.336	217723.30	0.0536	P	1.6
6	☐	50000.000	46845.116	438262.90	0.1049	P	0.9
7	☐	100000.00	94780.680	870465.81	0.2121	P	1.4
8	☐	500000.00	501428.49	4668335.11	1.1218	A	1.1

$$y = 2.2370\text{E-}006 * x + 7.8312\text{E-}005$$

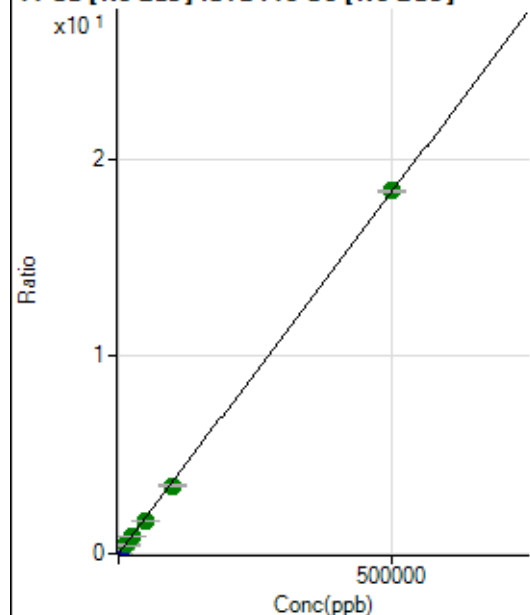
$$R = 0.9999$$

$$DL = 2.208$$

$$BEC = 35.01$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	19298.83	0.0048	P	0.7
2	☐	500.000	441.720	84855.33	0.0210	P	1.9
3	☐	5000.000	4733.168	739249.85	0.1783	P	1.7
4	☐	12500.000	11903.960	1808852.44	0.4411	A	2.6
5	☐	25000.000	23543.657	3525825.95	0.8676	A	0.7
6	☐	50000.000	45850.411	7041803.59	1.6850	A	1.6
7	☐	100000.00	93348.291	14058039.85	3.4256	A	2.2
8	☐	500000.00	501835.74	76551467.85	18.3946	A	0.4

$$y = 3.6645\text{E-}005 * x + 0.0048$$

$$R = 0.9999$$

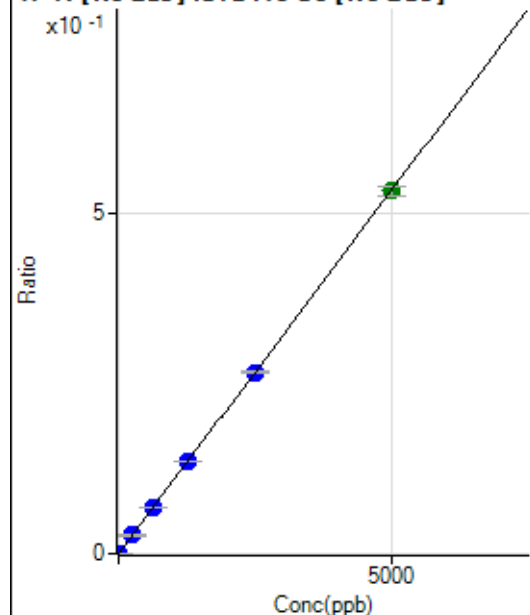
$$DL = 2.677$$

$$BEC = 132$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	444.47	0.0001	P	12.0
2	☐	5.000	4.685	2469.73	0.0006	P	12.5
3	☐	250.000	250.480	111568.73	0.0269	P	1.5
4	☐	625.000	638.154	280452.77	0.0684	P	1.8
5	☐	1250.000	1269.084	552139.42	0.1359	P	1.5
6	☐	2500.000	2499.051	1117678.33	0.2674	P	1.0
7	☐	5000.000	4994.035	2192936.38	0.5343	A	2.6
8	☐			633.36	0.0002	P	9.9

$$y = 1.0697\text{E-}004 * x + 1.1132\text{E-}004$$

$$R = 1.0000$$

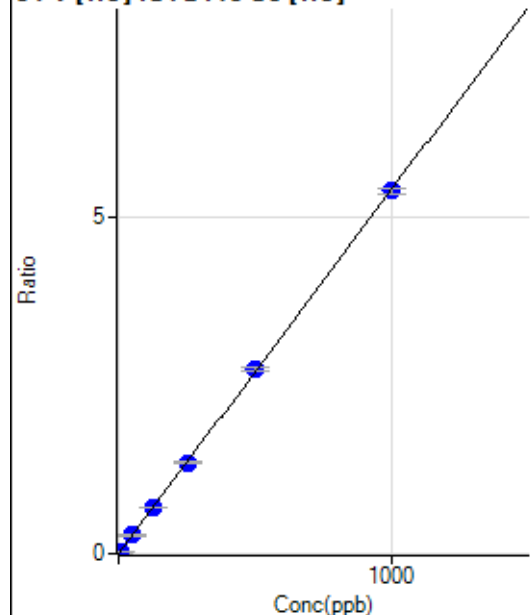
$$DL = 0.3746$$

$$BEC = 1.041$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	8.89	0.0001	P	43.4
2	☐	5.000	4.747	2856.99	0.0257	P	8.2
3	☐	50.000	50.237	30372.26	0.2717	P	2.5
4	☐	125.000	125.634	76561.03	0.6793	P	0.6
5	☐	250.000	250.371	153112.27	1.3538	P	1.8
6	☐	500.000	506.808	307189.87	2.7403	P	1.6
7	☐	1000.000	996.413	604835.70	5.3874	P	1.9
8	☐			127.78	0.0011	P	17.0

$$y = 0.0054 * x + 8.0418\text{E-}005$$

$$R = 1.0000$$

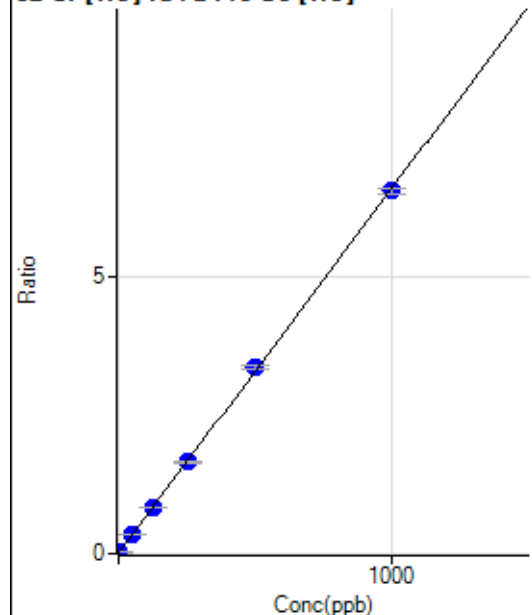
$$DL = 0.01938$$

$$BEC = 0.01487$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	767.80	0.0069	P	9.7
2	☐	2.000	2.075	2282.43	0.0206	P	5.5
3	☐	50.000	50.538	37838.87	0.3385	P	0.3
4	☐	125.000	126.435	94255.89	0.8364	P	1.0
5	☐	250.000	250.950	186975.66	1.6532	P	2.2
6	☐	500.000	510.814	376454.82	3.3579	P	1.2
7	☐	1000.000	994.149	732982.36	6.5287	P	1.3
8	☐			3314.86	0.0283	P	3.8

$$y = 0.0066 * x + 0.0069$$

$$R = 0.9999$$

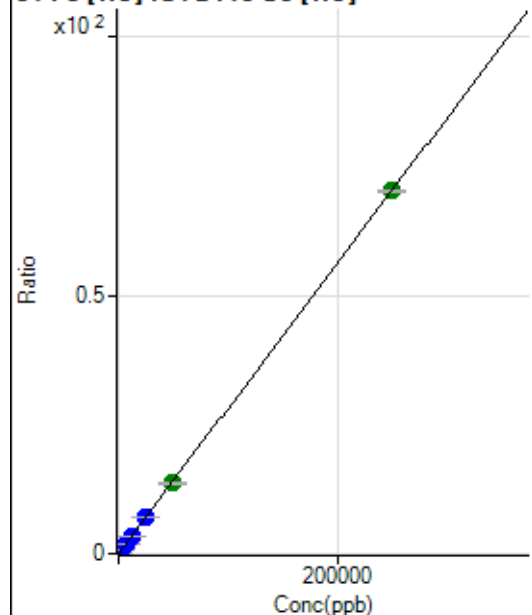
$$DL = 0.3069$$

$$BEC = 1.059$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	301.86	0.0027	P	21.3
2	☐	50.000	44.659	1692.73	0.0153	P	3.2
3	☐	2500.000	2484.244	78205.55	0.6996	P	0.3
4	☐	6250.000	6250.232	197892.91	1.7560	P	0.6
5	☐	12500.000	12310.521	390894.14	3.4560	P	1.3
6	☐	25000.000	24905.604	783462.22	6.9890	P	1.9
7	☐	50000.000	49031.110	1544379.62	13.7565	A	2.7
8	☐	250000.00	250212.84	8225841.85	70.1901	A	0.7

$$y = 2.8051E-004 * x + 0.0027$$

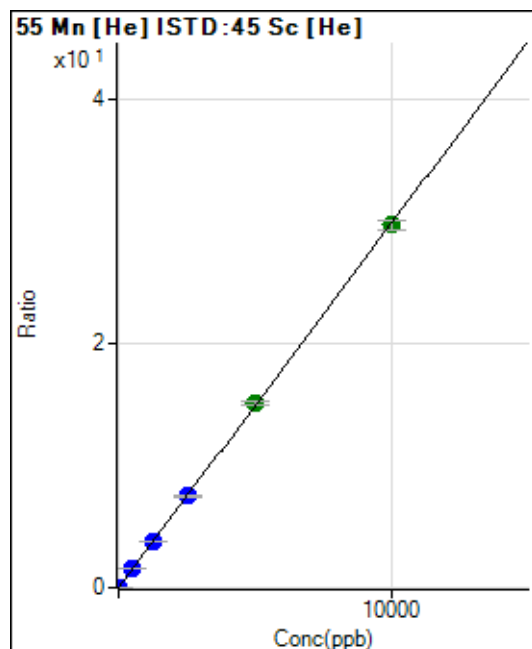
$$R = 1.0000$$

$$DL = 6.198$$

$$BEC = 9.71$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	75.56	0.0007	P	25.0
2	☐	1.000	0.956	393.34	0.0035	P	6.7
3	☐	500.000	509.139	170254.59	1.5230	P	0.5
4	☐	1250.000	1268.280	427433.30	3.7928	P	1.0
5	☐	2500.000	2520.326	852408.16	7.5364	P	1.1
6	☐	5000.000	5072.715	1700334.99	15.1681	A	1.9
7	☐	10000.000	9955.819	3341965.68	29.7685	A	2.3
8	☐			2752.52	0.0235	P	3.6

$$y = 0.0030 * x + 6.8417E-004$$

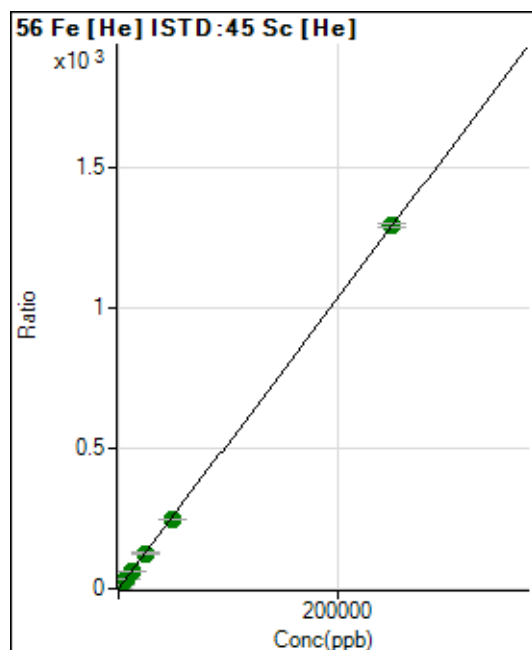
$$R = 1.0000$$

$$DL = 0.1715$$

$$BEC = 0.2288$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	1935.35	0.0175	P	4.1
2	☐	50.000	47.131	28911.05	0.2605	P	0.2
3	☐	2500.000	2481.793	1432204.19	12.8114	A	0.4
4	☐	6250.000	6102.300	3547130.26	31.4755	A	1.1
5	☐	12500.000	12015.366	7007714.85	61.9579	A	1.3
6	☐	25000.000	24411.160	14107880.06	125.8595	A	2.5
7	☐	50000.000	47922.412	27738080.48	247.0625	A	1.4
8	☐	250000.00	250502.50	151340451.5	1,291.383	A	1.0

$$y = 0.0052 * x + 0.0175$$

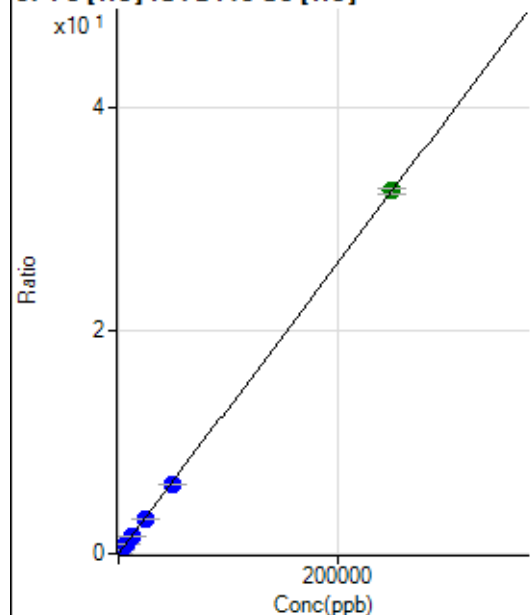
$$R = 1.0000$$

$$DL = 0.4207$$

$$BEC = 3.395$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	77.78	0.0007	P	23.8
2	☐	50.000	45.782	737.07	0.0066	P	12.9
3	☐	2500.000	2445.913	35557.59	0.3181	P	0.8
4	☐	6250.000	6035.410	88334.83	0.7839	P	1.2
5	☐	12500.000	12001.954	176224.00	1.5581	P	1.6
6	☐	25000.000	24238.626	352637.63	3.1459	P	2.4
7	☐	50000.000	47805.972	696529.16	6.2040	P	1.2
8	☐	250000.00	250545.75	3810521.87	32.5114	A	1.2

$$y = 1.2976E-004 * x + 7.0199E-004$$

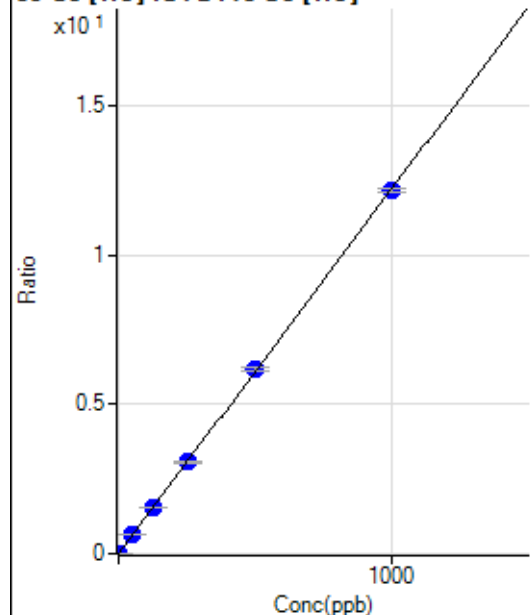
$$R = 1.0000$$

$$DL = 3.868$$

$$BEC = 5.41$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	44.45	0.0004	P	24.1
2	☐	1.000	0.964	1348.97	0.0122	P	3.7
3	☐	50.000	51.077	69650.24	0.6230	P	0.7
4	☐	125.000	126.555	173899.98	1.5431	P	1.0
5	☐	250.000	251.411	346678.18	3.0651	P	1.5
6	☐	500.000	507.858	694045.84	6.1913	P	1.8
7	☐	1000.000	995.470	1362453.89	12.1353	P	1.2
8	☐			2584.71	0.0221	P	3.1

$$y = 0.0122 * x + 4.0185E-004$$

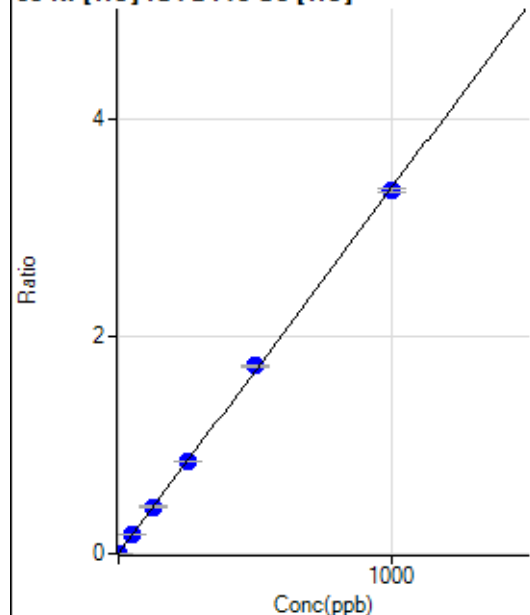
$$R = 1.0000$$

$$DL = 0.02388$$

$$BEC = 0.03296$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	207.78	0.0019	P	18.3
2	☐	1.000	0.974	572.24	0.0052	P	5.7
3	☐	50.000	52.163	19823.91	0.1773	P	0.4
4	☐	125.000	128.151	48786.67	0.4329	P	2.2
5	☐	250.000	253.607	96696.56	0.8549	P	0.6
6	☐	500.000	512.758	193557.76	1.7266	P	1.4
7	☐	1000.000	992.217	374905.82	3.3393	P	1.2
8	☐			1294.52	0.0110	P	5.2

$$y = 0.0034 * x + 0.0019$$

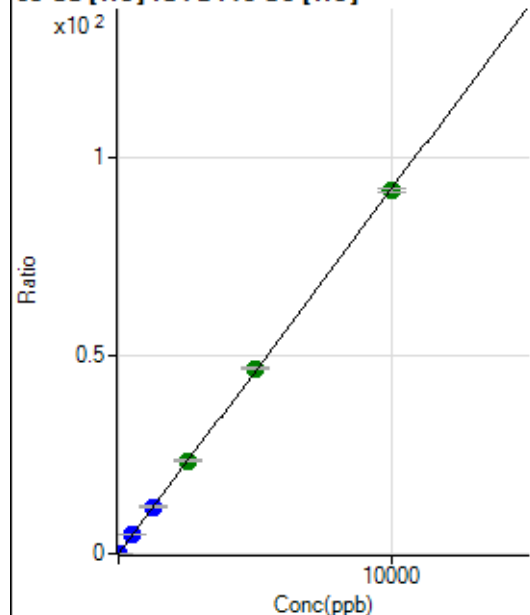
$$R = 0.9999$$

$$DL = 0.3064$$

$$BEC = 0.5594$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	556.68	0.0050	P	9.8
2	☐	2.000	2.239	2846.99	0.0256	P	4.8
3	☐	500.000	519.882	535423.82	4.7896	P	0.2
4	☐	1250.000	1288.623	1337049.11	11.8644	P	0.5
5	☐	2500.000	2533.473	2637657.77	23.3208	A	2.2
6	☐	5000.000	5076.359	5238080.79	46.7233	A	1.2
7	☐	10000.000	9947.630	10279121.79	91.5540	A	0.9
8	☐			4234.00	0.0361	P	1.5

$$y = 0.0092 * x + 0.0050$$

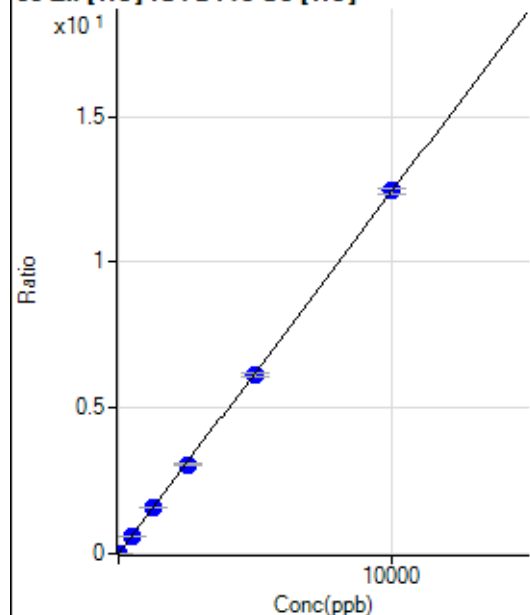
$$R = 0.9999$$

$$DL = 0.1609$$

$$BEC = 0.5472$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	193.34	0.0017	P	0.4
2	☐	2.000	1.681	425.57	0.0038	P	1.4
3	☐	500.000	502.152	69853.11	0.6249	P	0.3
4	☐	1250.000	1256.573	175920.25	1.5610	P	0.7
5	☐	2500.000	2463.929	346006.54	3.0592	P	1.6
6	☐	5000.000	4956.364	689666.66	6.1521	P	1.7
7	☐	10000.000	10029.907	1397532.67	12.4478	P	1.3
8	☐			3871.67	0.0330	P	2.4

$$y = 0.0012 * x + 0.0017$$

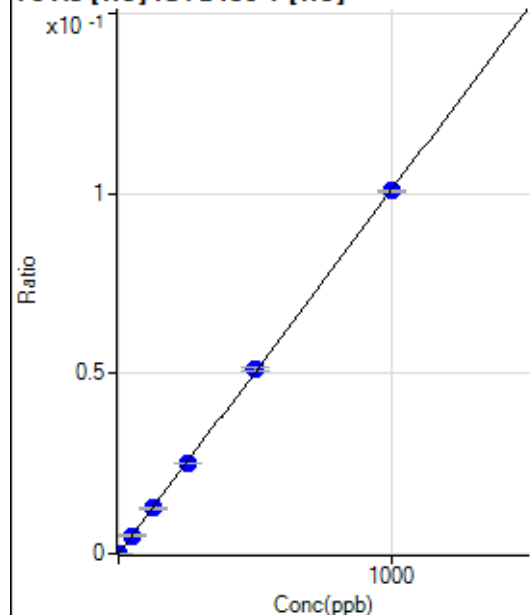
R = 1.0000

DL = 0.01557

BEC = 1.409

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	10.67	0.0000	P	31.5
2	☐	1.000	0.970	109.01	0.0001	P	10.0
3	☐	50.000	49.937	5051.08	0.0051	P	1.0
4	☐	125.000	124.536	12708.32	0.0126	P	0.9
5	☐	250.000	248.792	25384.90	0.0251	P	0.6
6	☐	500.000	505.487	51297.26	0.0511	P	2.0
7	☐	1000.000	997.620	101284.86	0.1008	P	0.4
8	☐			53.01	0.0001	P	10.6

$$y = 1.0102\text{E-}004 * x + 1.0774\text{E-}005$$

R = 1.0000

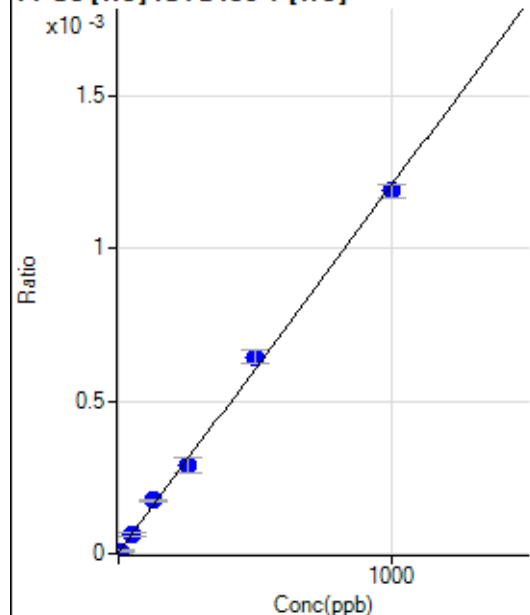
DL = 0.1008

BEC = 0.1067

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	4.44	0.0000	P	113.1
2	☐	5.000	2.737	7.78	0.0000	P	89.0
3	☐	50.000	47.174	61.11	0.0001	P	21.4
4	☐	125.000	141.747	176.67	0.0002	P	3.7
5	☐	250.000	237.620	293.34	0.0003	P	16.2
6	☐	500.000	532.790	648.91	0.0006	P	6.9
7	☐	1000.000	984.759	1195.62	0.0012	P	3.5
8	☐			2.22	0.0000	P	173.2

$$y = 1.2036\text{E-}006 * x + 4.4627\text{E-}006$$

$$R = 0.9989$$

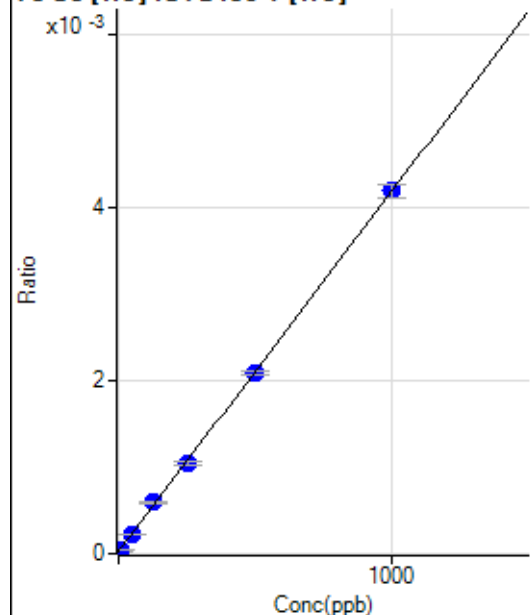
$$DL = 12.58$$

$$BEC = 3.708$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	26.00	0.0000	P	12.0
2	☐	5.000	3.288	40.00	0.0000	P	18.6
3	☐	50.000	47.369	223.02	0.0002	P	5.6
4	☐	125.000	135.755	596.41	0.0006	P	5.2
5	☐	250.000	244.217	1052.15	0.0010	P	3.3
6	☐	500.000	497.003	2102.71	0.0021	P	2.6
7	☐	1000.000	1001.740	4213.72	0.0042	P	3.4
8	☐			30.33	0.0000	P	30.8

$$y = 4.1601\text{E-}006 * x + 2.6215\text{E-}005$$

$$R = 0.9999$$

$$DL = 2.26$$

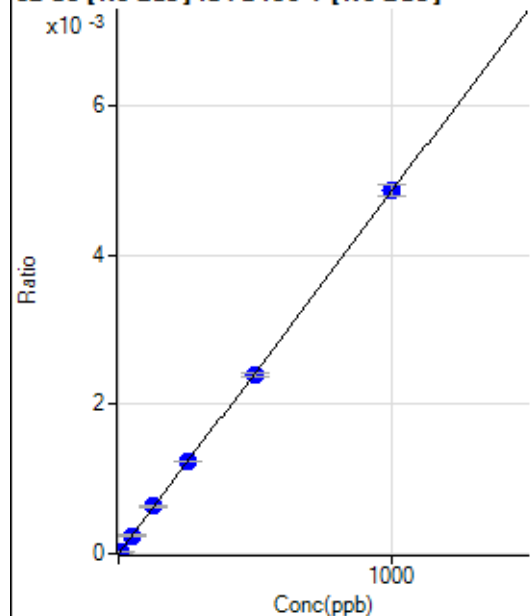
$$BEC = 6.302$$

Weight: <None>

Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			2946.68		P	2.3
2	☐			2933.35		P	6.9
3	☐			2759.79		P	4.7
4	☐			2876.59		P	4.2
5	☐			2976.73		P	1.9
6	☐			2776.48		P	1.4
7	☐			2950.02		P	6.4
8	☐			3283.76		P	4.3

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	-0.95	0.0000	P	-2037.
2	☐	5.000	4.844	246.80	0.0000	P	7.5
3	☐	50.000	50.337	2623.42	0.0002	P	0.6
4	☐	125.000	131.170	6677.57	0.0006	P	2.3
5	☐	250.000	253.263	13135.39	0.0012	P	0.0
6	☐	500.000	493.385	26072.37	0.0024	P	2.8
7	☐	1000.000	1001.704	52035.28	0.0049	P	3.1
8	☐			24.61	0.0000	P	291.8

$$y = 4.8582E-006 * x - 9.1210E-008$$

$$R = 0.9999$$

$$DL = 1.148$$

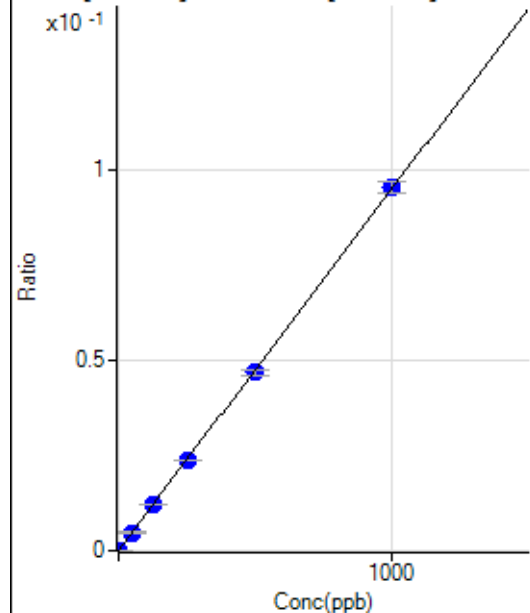
$$BEC = -0.01877$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			454.46		P	0.8
2	☐			432.23		P	2.7
3	☐			452.24		P	6.0
4	☐			463.35		P	7.8
5	☐			393.34		P	7.2
6	☐			493.35		P	14.0
7	☐			421.12		P	1.6
8	☐			428.90		P	13.6

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	680.59	0.0001	P	5.3
2	☐	1.000	1.025	1719.60	0.0002	P	7.0
3	☐	50.000	49.721	51381.27	0.0048	P	1.3
4	☐	125.000	127.545	127645.87	0.0122	P	2.0
5	☐	250.000	248.492	252666.28	0.0237	P	0.8
6	☐	500.000	492.177	509145.58	0.0468	P	2.9
7	☐	1000.000	1003.985	1020273.80	0.0954	P	3.2
8	☐			6807.38	0.0006	P	2.6

$$y = 9.4971\text{E-}005 * x + 6.6199\text{E-}005$$

$$R = 0.9999$$

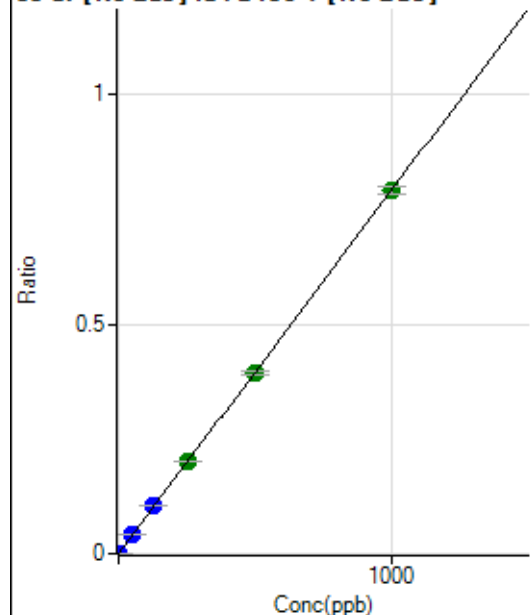
$$DL = 0.1108$$

$$BEC = 0.6971$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	127.78	0.0000	P	19.9
2	☐	1.000	0.994	8411.11	0.0008	P	2.9
3	☐	50.000	52.011	441772.88	0.0412	P	1.7
4	☐	125.000	130.946	1086272.53	0.1036	P	1.6
5	☐	250.000	255.047	2155001.16	0.2018	A	0.4
6	☐	500.000	499.153	4297430.74	0.3950	A	1.8
7	☐	1000.000	998.318	8448960.60	0.7900	A	2.2
8	☐			52714.13	0.0049	P	1.8

$$y = 7.9135\text{E-}004 * x + 1.2426\text{E-}005$$

$$R = 1.0000$$

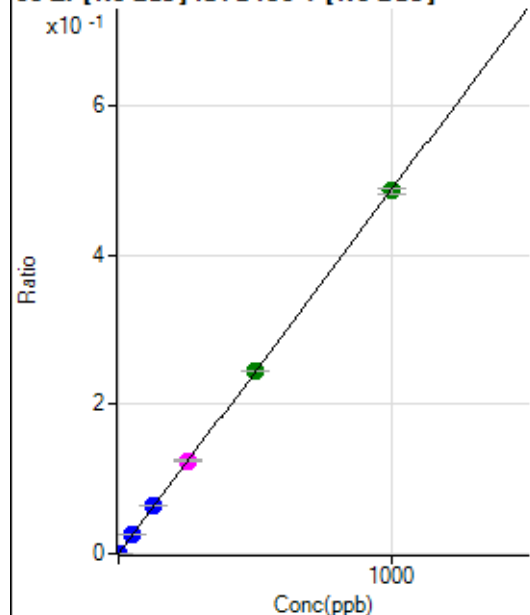
$$DL = 0.00938$$

$$BEC = 0.0157$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	308.34	0.0000	P	18.8
2	☐	1.000	0.966	5278.93	0.0005	P	0.7
3	☐	50.000	51.443	269808.35	0.0251	P	1.6
4	☐	125.000	131.392	672636.35	0.0642	P	1.6
5	☐	250.000	255.417	1331634.85	0.1247	M	0.7
6	☐	500.000	501.789	2665690.10	0.2450	A	0.9
7	☐	1000.000	996.880	5205601.72	0.4867	A	1.6
8	☐			1791.83	0.0002	P	7.9

$$y = 4.8820\text{E-}004 * x + 3.0021\text{E-}005$$

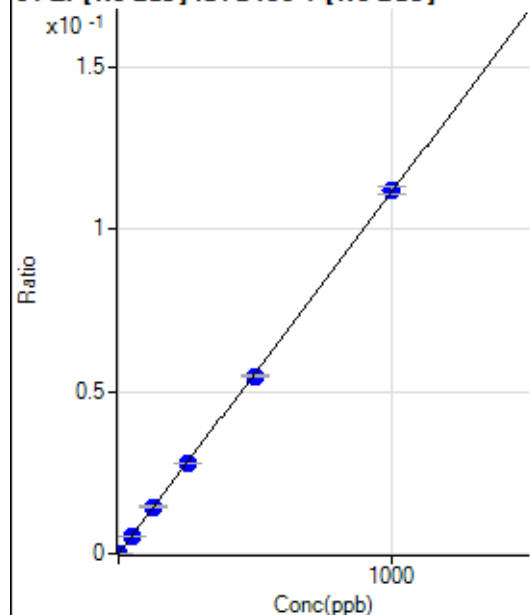
$$R = 1.0000$$

$$DL = 0.03472$$

$$BEC = 0.06149$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	80.56	0.0000	P	47.3
2	☐	1.000	0.970	1219.54	0.0001	P	9.8
3	☐	50.000	49.613	59354.66	0.0055	P	1.1
4	☐	125.000	128.777	150325.06	0.0143	P	2.6
5	☐	250.000	250.051	297291.60	0.0278	P	0.2
6	☐	500.000	491.952	595921.17	0.0548	P	1.6
7	☐	1000.000	1003.558	1194922.53	0.1117	P	2.2
8	☐			397.24	0.0000	P	10.4

$$y = 1.1133\text{E-}004 * x + 7.8229\text{E-}006$$

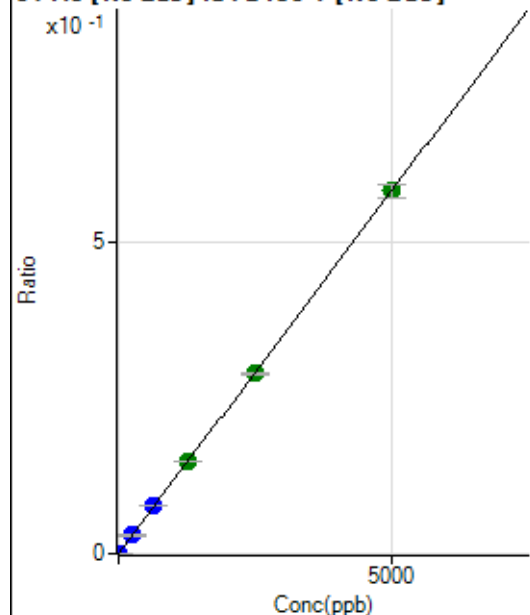
$$R = 0.9999$$

$$DL = 0.09975$$

$$BEC = 0.07027$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	150.01	0.0000	P	5.8
2	☐	5.000	4.736	5968.10	0.0006	P	4.9
3	☐	250.000	255.083	319565.13	0.0298	P	2.8
4	☐	625.000	662.202	810108.20	0.0773	P	2.5
5	☐	1250.000	1270.172	1582887.44	0.1483	A	0.3
6	☐	2500.000	2478.422	3147318.21	0.2893	A	1.1
7	☐	5000.000	5000.842	6240672.97	0.5837	A	3.6
8	☐			2433.63	0.0002	P	7.2

$$y = 1.1671\text{E-}004 * x + 1.4587\text{E-}005$$

$$R = 1.0000$$

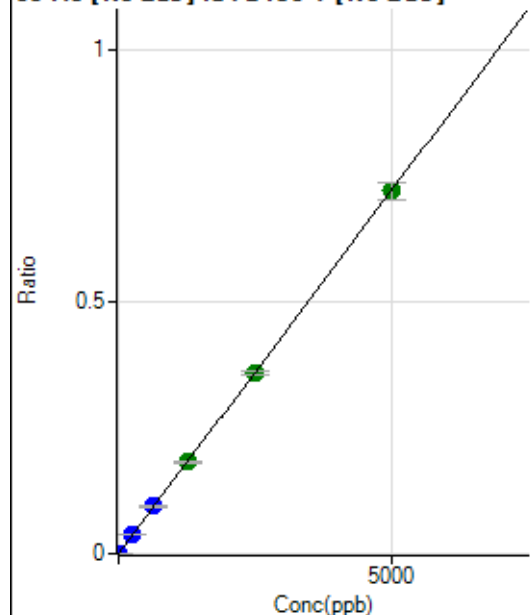
$$DL = 0.02161$$

$$BEC = 0.125$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	55.56	0.0000	P	60.2
2	☐	5.000	4.849	7418.84	0.0007	P	6.5
3	☐	250.000	256.546	397350.27	0.0370	P	3.7
4	☐	625.000	650.736	984582.36	0.0939	P	2.1
5	☐	1250.000	1264.317	1948687.22	0.1825	A	1.3
6	☐	2500.000	2497.572	3922343.54	0.3606	A	1.9
7	☐	5000.000	4994.090	7707184.37	0.7209	A	4.5
8	☐			3192.13	0.0003	P	8.3

$$y = 1.4436E-004 * x + 5.3857E-006$$

$$R = 1.0000$$

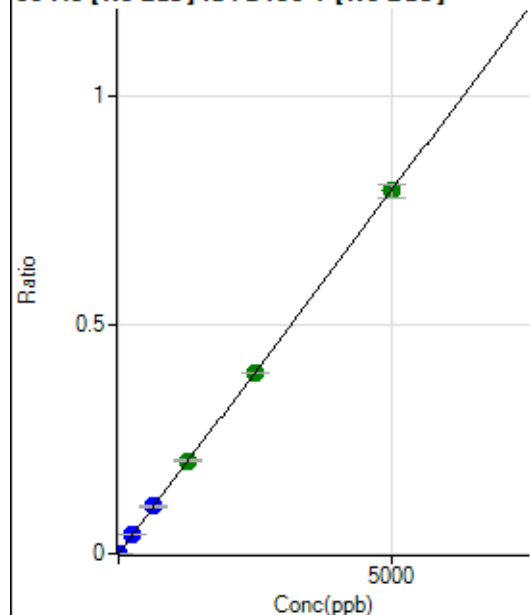
$$DL = 0.06736$$

$$BEC = 0.03731$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	127.78	0.0000	P	20.2
2	☐	5.000	4.850	8241.50	0.0008	P	2.0
3	☐	250.000	256.653	437879.30	0.0408	P	2.2
4	☐	625.000	652.658	1087501.70	0.1038	P	1.8
5	☐	1250.000	1275.218	2164370.21	0.2027	A	1.4
6	☐	2500.000	2488.962	4304866.20	0.3957	A	1.0
7	☐	5000.000	4995.425	8490178.05	0.7941	A	3.9
8	☐			4084.04	0.0004	P	15.1

$$y = 1.5896E-004 * x + 1.2431E-005$$

$$R = 1.0000$$

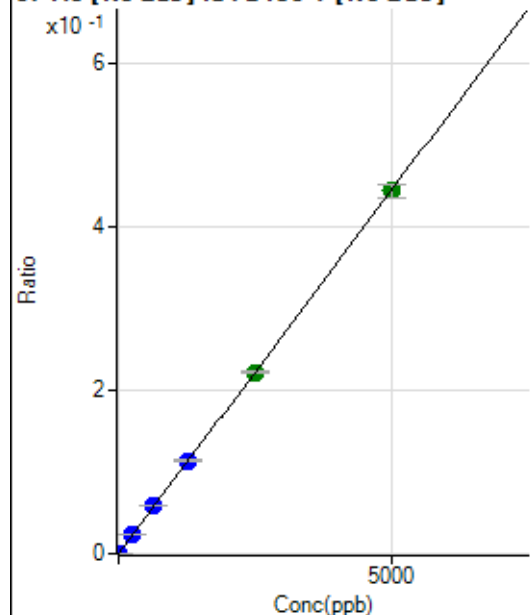
$$DL = 0.04731$$

$$BEC = 0.0782$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	47.22	0.0000	P	55.0
2	☐	5.000	4.718	4467.51	0.0004	P	4.8
3	☐	250.000	254.831	243457.06	0.0227	P	1.1
4	☐	625.000	657.658	613581.89	0.0585	P	2.1
5	☐	1250.000	1281.893	1218261.39	0.1141	P	0.5
6	☐	2500.000	2492.929	2414363.40	0.2219	A	1.3
7	☐	5000.000	4991.239	4750066.12	0.4443	A	3.8
8	☐			1897.39	0.0002	P	5.8

$$y = 8.9011\text{E-}005 * x + 4.6096\text{E-}006$$

$$R = 1.0000$$

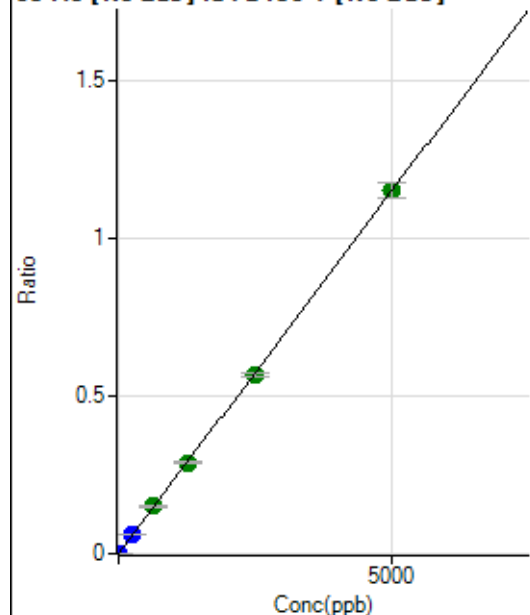
$$DL = 0.08545$$

$$BEC = 0.05179$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	55.56	0.0000	P	60.2
2	☐	5.000	4.867	11802.62	0.0011	P	3.4
3	☐	250.000	254.917	627570.99	0.0585	P	1.6
4	☐	625.000	657.658	1581251.48	0.1509	A	2.5
5	☐	1250.000	1254.370	3072372.92	0.2878	A	1.3
6	☐	2500.000	2476.141	6179655.48	0.5681	A	2.0
7	☐	5000.000	5006.509	12278921.28	1.1485	A	4.3
8	☐			4828.76	0.0005	P	12.3

$$y = 2.2941\text{E-}004 * x + 5.3857\text{E-}006$$

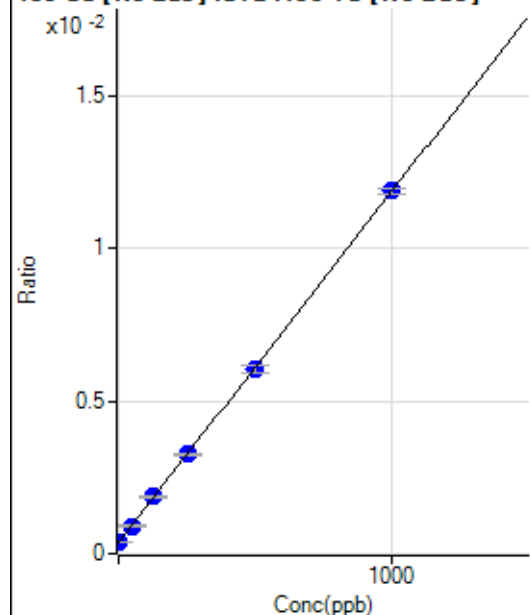
$$R = 1.0000$$

$$DL = 0.04239$$

$$BEC = 0.02348$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	2483.63	0.0004	P	1.0
2	☐	1.000	2.356	2705.91	0.0004	P	3.9
3	☐	50.000	46.405	6360.00	0.0009	P	5.2
4	☐	125.000	130.099	13095.41	0.0019	P	2.8
5	☐	250.000	251.247	22989.09	0.0033	P	0.6
6	☐	500.000	493.721	43597.35	0.0060	P	4.7
7	☐	1000.000	1002.369	85794.44	0.0119	P	1.9
8	☐			2644.77	0.0004	P	2.1

$$y = 1.1485\text{E-}005 * x + 3.6475\text{E-}004$$

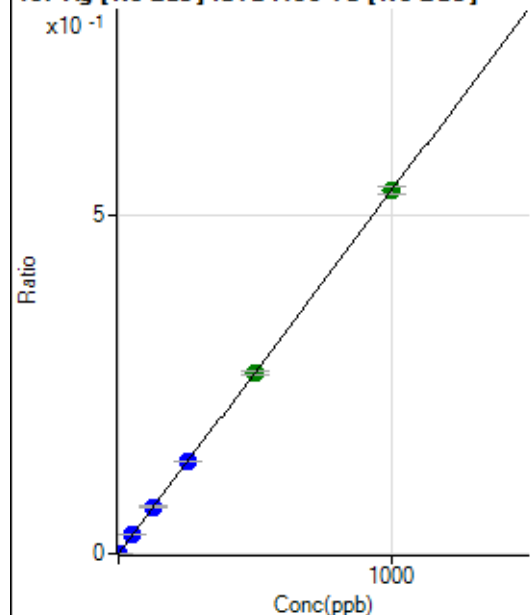
$$R = 0.9999$$

$$DL = 0.9934$$

$$BEC = 31.76$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	66.67	0.0000	P	34.5
2	☐	1.000	0.950	3592.22	0.0005	P	4.7
3	☐	50.000	51.746	196974.57	0.0278	P	0.9
4	☐	125.000	129.129	488613.39	0.0694	P	2.3
5	☐	250.000	253.963	964700.54	0.1364	P	0.7
6	☐	500.000	497.954	1932460.44	0.2674	A	2.6
7	☐	1000.000	999.429	3877127.69	0.5367	A	2.1
8	☐			1925.20	0.0003	P	2.0

$$y = 5.3703\text{E-}004 * x + 9.8211\text{E-}006$$

$$R = 1.0000$$

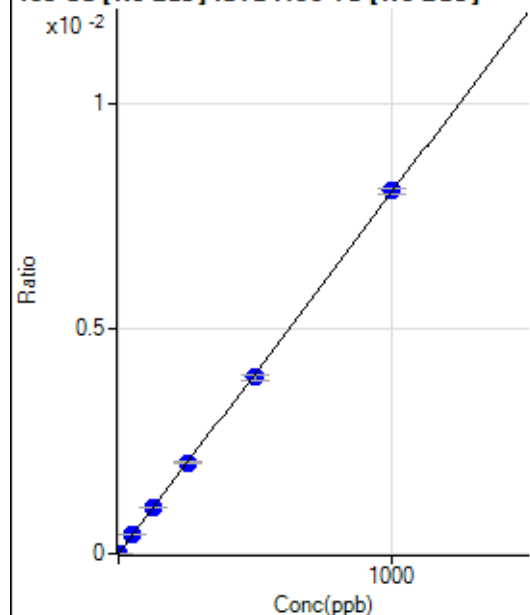
$$DL = 0.01893$$

$$BEC = 0.01829$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	9.72	0.0000	P	66.7
2	☐	1.000	0.745	51.39	0.0000	P	31.5
3	☐	50.000	52.906	3023.99	0.0004	P	3.6
4	☐	125.000	128.620	7293.68	0.0010	P	2.1
5	☐	250.000	251.062	14283.90	0.0020	P	1.8
6	☐	500.000	488.285	28370.89	0.0039	P	2.8
7	☐	1000.000	1004.994	58364.47	0.0081	P	1.8
8	☐			66.67	0.0000	P	25.3

$$y = 8.0378\text{E-}006 * x + 1.4370\text{E-}006$$

$$R = 0.9999$$

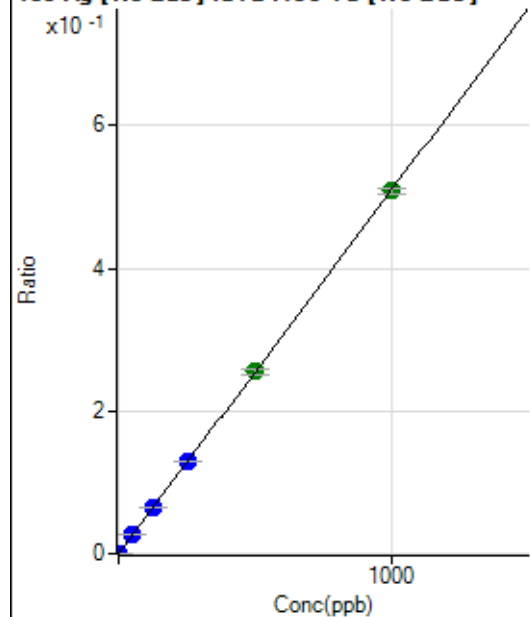
$$DL = 0.3576$$

$$BEC = 0.1788$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	38.89	0.0000	P	32.1
2	☐	1.000	0.978	3486.65	0.0005	P	3.7
3	☐	50.000	52.033	187963.52	0.0265	P	1.2
4	☐	125.000	128.764	462481.72	0.0656	P	1.1
5	☐	250.000	254.779	918577.95	0.1299	P	0.5
6	☐	500.000	500.624	1843932.53	0.2552	A	3.0
7	☐	1000.000	997.921	3674551.60	0.5087	A	1.6
8	☐			1802.95	0.0002	P	5.6

$$y = 5.0971\text{E-}004 * x + 5.7055\text{E-}006$$

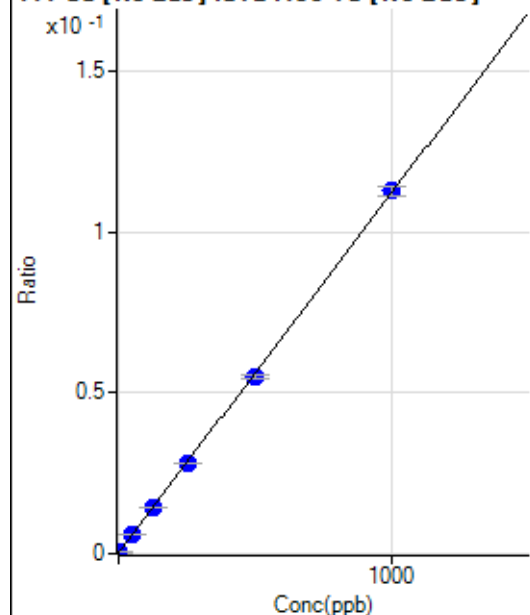
$$R = 1.0000$$

$$DL = 0.01079$$

$$BEC = 0.01119$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	1742.85	0.0003	P	1.0
2	☐	1.000	1.148	2654.03	0.0004	P	3.8
3	☐	50.000	49.673	41170.41	0.0058	P	1.9
4	☐	125.000	125.888	100991.01	0.0143	P	0.9
5	☐	250.000	248.415	198295.91	0.0280	P	0.7
6	☐	500.000	489.112	397133.70	0.0550	P	1.9
7	☐	1000.000	1005.746	814244.65	0.1127	P	2.6
8	☐			2124.12	0.0003	P	1.7

$$y = 1.1183\text{E-}004 * x + 2.5595\text{E-}004$$

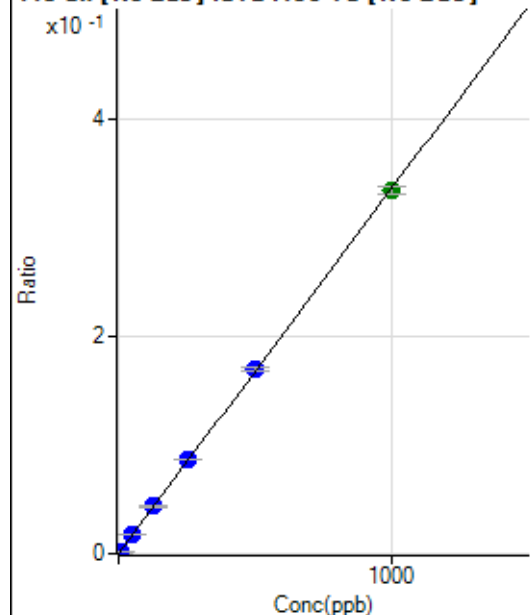
$$R = 0.9999$$

$$DL = 0.06807$$

$$BEC = 2.289$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	244.45	0.0000	P	33.8
2	☐	5.000	4.862	11541.30	0.0017	P	6.1
3	☐	50.000	51.209	122349.86	0.0173	P	1.7
4	☐	125.000	129.943	308338.62	0.0438	P	1.6
5	☐	250.000	258.151	614675.62	0.0869	P	1.1
6	☐	500.000	506.479	1231948.41	0.1705	P	2.0
7	☐	1000.000	994.045	2416548.56	0.3345	A	2.2
8	☐			944.50	0.0001	P	3.5

$$y = 3.3651\text{E-}004 * x + 3.5912\text{E-}005$$

$$R = 0.9999$$

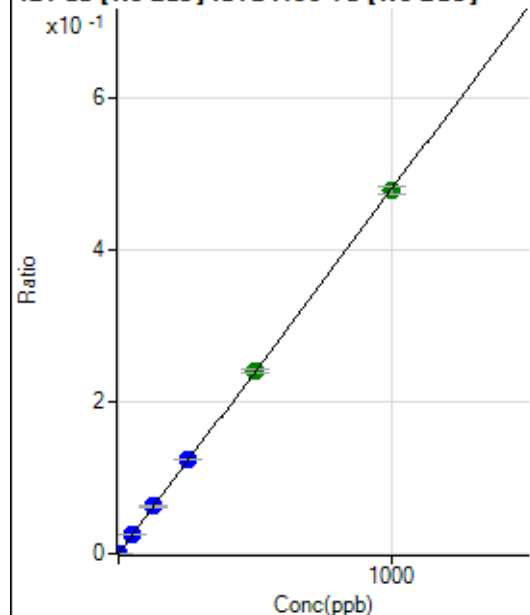
$$DL = 0.1084$$

$$BEC = 0.1067$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	36.11	0.0000	P	69.8
2	☐	2.000	1.900	6323.84	0.0009	P	5.2
3	☐	50.000	51.780	175824.11	0.0248	P	1.3
4	☐	125.000	129.420	436929.48	0.0620	P	1.4
5	☐	250.000	258.793	877038.10	0.1240	P	1.0
6	☐	500.000	502.824	1741182.96	0.2409	A	1.7
7	☐	1000.000	995.749	3446350.29	0.4771	A	2.2
8	☐			2494.74	0.0003	P	2.8

$$y = 4.7913\text{E-}004 * x + 5.2679\text{E-}006$$

$$R = 0.9999$$

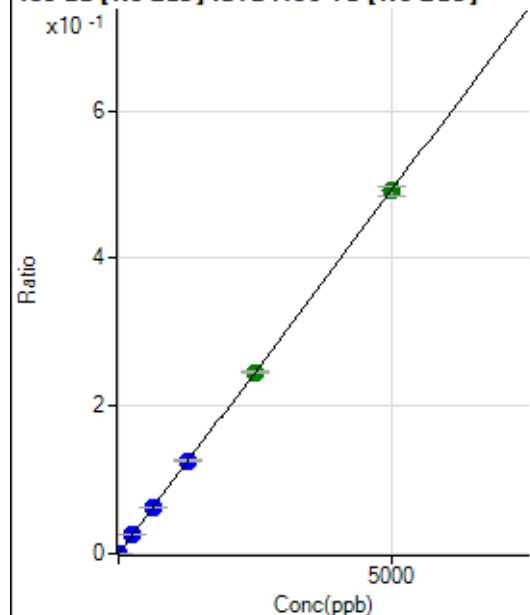
$$DL = 0.02301$$

$$BEC = 0.01099$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	16.67	0.0000	P	133.2
2	☐	10.000	9.693	6615.71	0.0010	P	3.3
3	☐	250.000	255.074	177986.49	0.0251	P	0.9
4	☐	625.000	637.991	442609.42	0.0628	P	1.6
5	☐	1250.000	1276.622	889082.09	0.1257	P	1.3
6	☐	2500.000	2498.810	1778216.64	0.2460	A	1.8
7	☐	5000.000	4992.062	3550528.72	0.4915	A	2.8
8	☐			7115.97	0.0010	P	6.9

$$y = 9.8466\text{E-}005 * x + 2.4713\text{E-}006$$

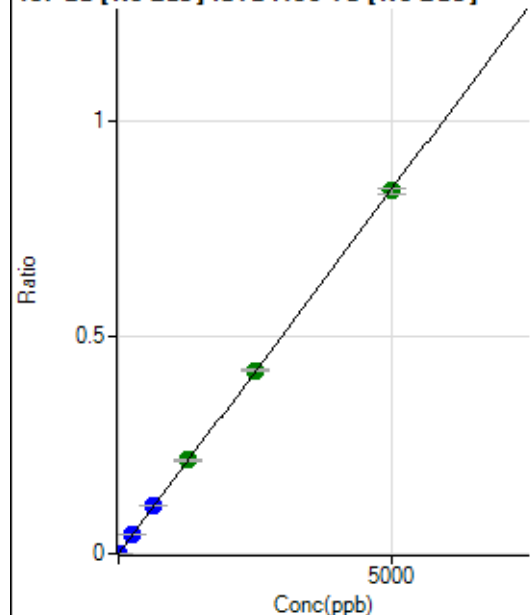
$$R = 1.0000$$

$$DL = 0.1003$$

$$BEC = 0.0251$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	25.00	0.0000	P	59.1
2	☐	10.000	9.745	11357.90	0.0016	P	1.9
3	☐	250.000	260.148	310246.99	0.0438	P	2.7
4	☐	625.000	652.415	773722.92	0.1098	P	0.4
5	☐	1250.000	1282.145	1526280.37	0.2158	A	1.4
6	☐	2500.000	2515.128	3059439.00	0.4233	A	1.6
7	☐	5000.000	4980.466	6055335.16	0.8383	A	1.9
8	☐			11694.19	0.0016	P	3.4

$$y = 1.6831E-004 * x + 3.6900E-006$$

$$R = 1.0000$$

$$DL = 0.03888$$

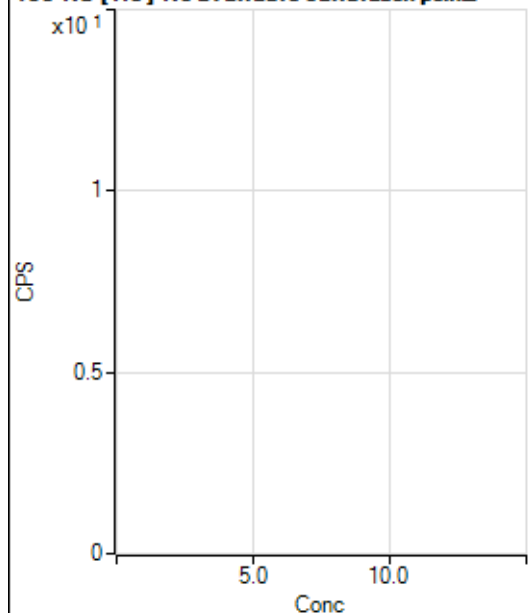
$$BEC = 0.02192$$

Weight: <None>

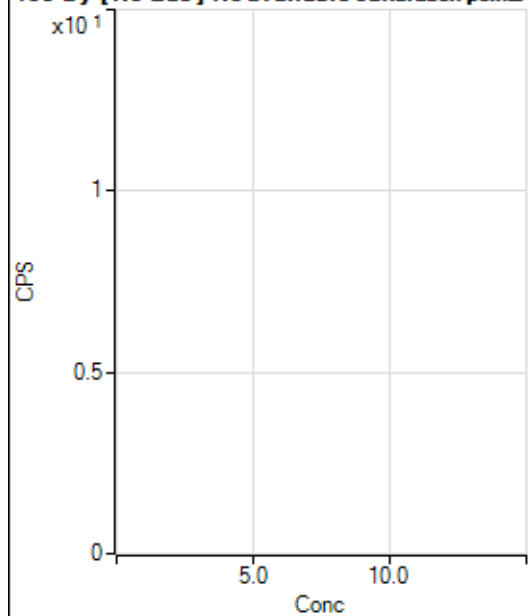
Min Conc: 0

150 Nd [No Gas] No available calibration points

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			0.00		P	
2	☐			4.45		P	86.6
3	☐			20.00		P	0.0
4	☐			20.00		P	66.7
5	☐			44.45		P	8.7
6	☐			88.89		P	22.9
7	☐			148.89		P	27.0
8	☐			15.55		P	24.8

150 Nd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			1.11		P	173.2
2	☐			0.00		P	
3	☐			2.22		P	173.2
4	☐			2.22		P	173.2
5	☐			1.11		P	173.2
6	☐			5.56		P	91.6
7	☐			10.00		P	57.8
8	☐			2.22		P	173.2

156 Dy [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			13.89		P	91.6
2	☐			11.11		P	86.6
3	☐			8.33		P	100.0
4	☐			30.56		P	31.5
5	☐			38.89		P	44.6
6	☐			33.33		P	50.0
7	☐			97.23		P	43.1
8	☐			200.01		P	26.0

156 Dy [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			2.22		P	86.6
2	☐			6.67		P	50.0
3	☐			8.89		P	43.3
4	☐			5.55		P	124.9
5	☐			16.67		P	52.9
6	☐			12.22		P	15.7
7	☐			25.56		P	7.5
8	☐			122.23		P	4.2

160 Gd [No Gas] Noavailable calibration poin_

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			61.11		P	15.7
2	☐			41.67		P	60.0
3	☐			66.67		P	43.3
4	☐			66.67		P	12.5
5	☐			72.22		P	29.0
6	☐			69.45		P	25.0
7	☐			97.23		P	17.8
8	☐			302.79		P	4.2

160 Gd [He] No available calibration points

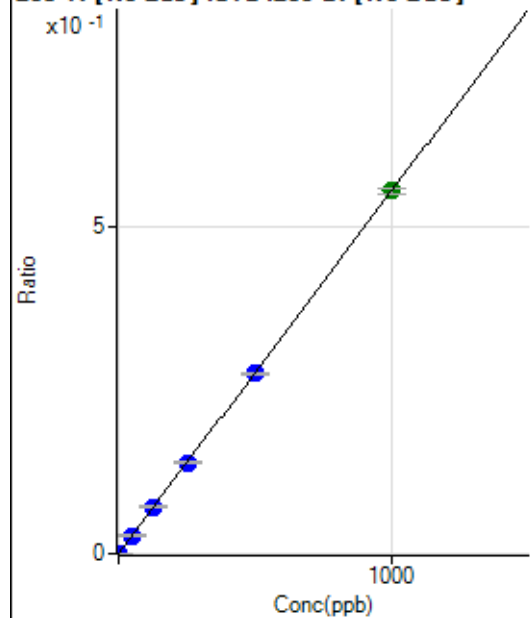
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			13.34		P	43.3
2	☐			14.44		P	35.3
3	☐			14.44		P	70.5
4	☐			22.22		P	52.7
5	☐			15.56		P	49.5
6	☐			35.56		P	14.3
7	☐			52.22		P	18.4
8	☐			137.78		P	9.2

164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			33.33		P	25.0
2	☐			30.56		P	56.8
3	☐			27.78		P	62.5
4	☐			38.89		P	44.6
5	☐			25.00		P	33.3
6	☐			52.78		P	50.8
7	☐			36.11		P	48.0
8	☐			75.00		P	44.4

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			5.56		P	91.6
2	☐			14.44		P	35.3
3	☐			14.45		P	74.2
4	☐			14.45		P	48.0
5	☐			17.78		P	21.7
6	☐			12.22		P	41.7
7	☐			17.78		P	54.1
8	☐			20.00		P	28.9

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	108.34	0.0000	P	28.6
2	☐	1.000	0.922	2064.11	0.0005	P	9.9
3	☐	50.000	50.151	109014.29	0.0279	P	2.6
4	☐	125.000	128.669	273881.00	0.0714	P	1.9
5	☐	250.000	251.325	544410.54	0.1395	P	1.7
6	☐	500.000	497.422	1100451.04	0.2760	P	1.3
7	☐	1000.000	1000.492	2199393.95	0.5552	A	1.6
8	☐			1297.33	0.0003	P	3.7

$$y = 5.5487E-004 * x + 2.8689E-005$$

$$R = 1.0000$$

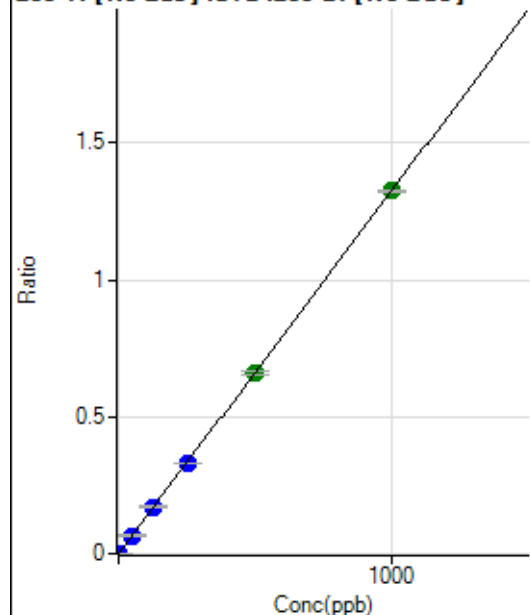
$$DL = 0.0443$$

$$BEC = 0.05171$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	261.12	0.0001	P	2.9
2	☐	1.000	0.926	4945.53	0.0013	P	4.0
3	☐	50.000	50.246	260739.70	0.0666	P	3.0
4	☐	125.000	128.700	653947.40	0.1706	P	2.3
5	☐	250.000	250.346	1294674.95	0.3317	P	1.0
6	☐	500.000	498.654	2633698.06	0.6606	A	1.4
7	☐	1000.000	1000.112	5248886.84	1.3249	A	0.7
8	☐			3292.19	0.0009	P	3.5

$$y = 0.0013 * x + 6.9045E-005$$

$$R = 1.0000$$

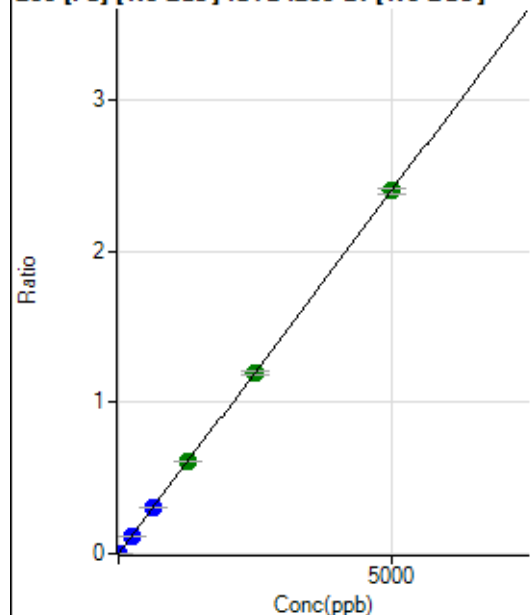
$$DL = 0.004506$$

$$BEC = 0.05212$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	688.92	0.0002	P	6.3
2	☐	1.000	0.880	2309.51	0.0006	P	1.8
3	☐	250.000	246.219	463666.68	0.1185	P	2.3
4	☐	625.000	631.338	1163648.55	0.3035	P	2.2
5	☐	1250.000	1276.264	2393909.98	0.6133	A	0.7
6	☐	2500.000	2487.627	4764921.11	1.1953	A	1.9
7	☐	5000.000	4999.017	9515234.12	2.4018	A	1.5
8	☐			5288.22	0.0014	P	3.3

$$y = 4.8042E-004 * x + 1.8212E-004$$

$$R = 1.0000$$

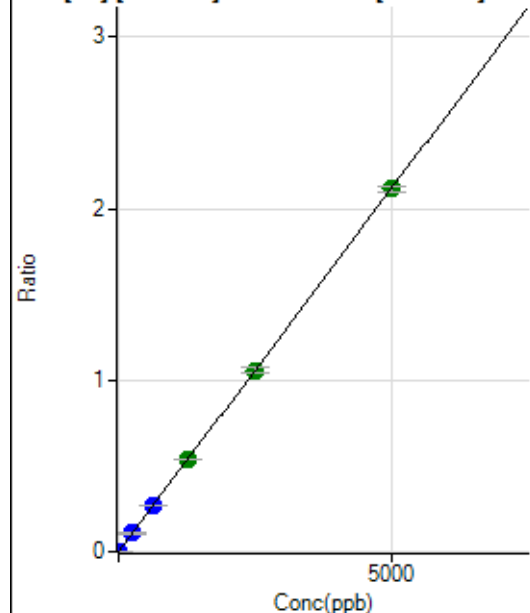
$$DL = 0.07139$$

$$BEC = 0.3791$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	603.73	0.0002	P	7.7
2	☐	1.000	0.953	2150.23	0.0006	P	2.8
3	☐	250.000	251.254	416827.94	0.1065	P	3.7
4	☐	625.000	635.624	1032260.84	0.2693	P	2.9
5	☐	1250.000	1264.861	2090809.56	0.5357	A	0.5
6	☐	2500.000	2500.642	4220652.44	1.0588	A	2.6
7	☐	5000.000	4994.573	8377583.58	2.1147	A	1.8
8	☐			4656.49	0.0012	P	2.9

$$y = 4.2336\text{E-}004 * x + 1.5961\text{E-}004$$

$$R = 1.0000$$

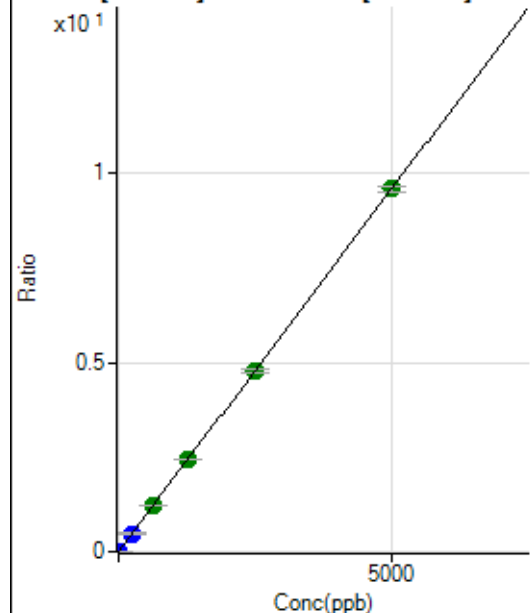
$$DL = 0.08661$$

$$BEC = 0.377$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	2853.89	0.0008	P	5.2
2	☐	1.000	0.908	9521.93	0.0025	P	2.8
3	☐	250.000	249.620	1874225.26	0.4789	P	2.8
4	☐	625.000	639.517	4700427.24	1.2258	A	1.7
5	☐	1250.000	1266.298	9471073.30	2.4265	A	0.1
6	☐	2500.000	2482.921	18963589.86	4.7570	A	1.9
7	☐	5000.000	5002.670	37968310.28	9.5839	A	1.3
8	☐			20934.71	0.0056	P	1.3

$$y = 0.0019 * x + 7.5461\text{E-}004$$

$$R = 1.0000$$

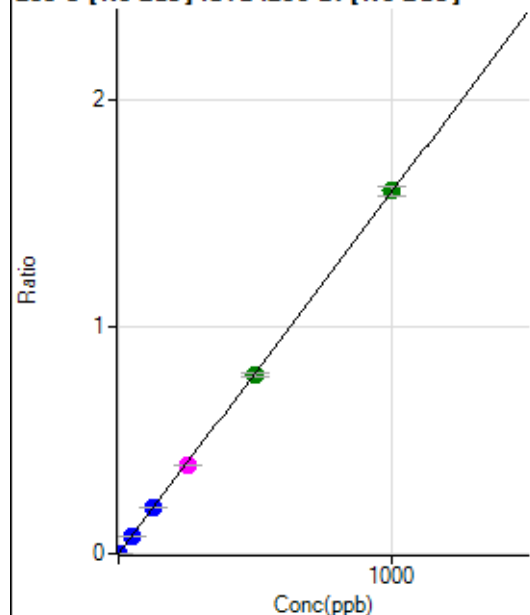
$$DL = 0.06165$$

$$BEC = 0.3939$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	25.00	0.0000	P	89.0
2	☐	1.000	0.911	5562.48	0.0015	P	3.1
3	☐	50.000	49.666	309669.21	0.0791	P	1.7
4	☐	125.000	127.145	776618.16	0.2025	P	1.7
5	☐	250.000	244.420	1519604.56	0.3893	M	0.5
6	☐	500.000	494.953	3142980.34	0.7884	A	1.3
7	☐	1000.000	1003.667	6333168.55	1.5986	A	2.5
8	☐			677.81	0.0002	P	3.7

$$y = 0.0016 * x + 6.6414E-006$$

$$R = 1.0000$$

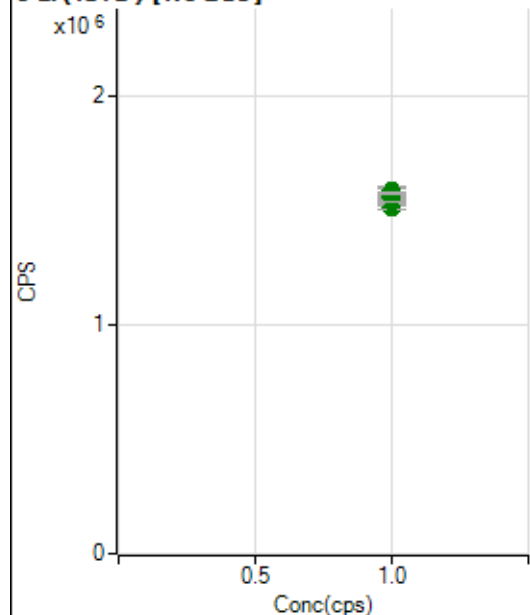
$$DL = 0.01114$$

$$BEC = 0.00417$$

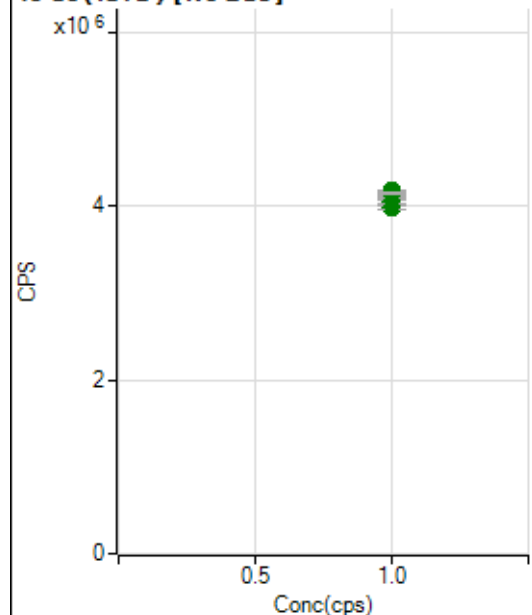
Weight: <None>

Min Conc: 0

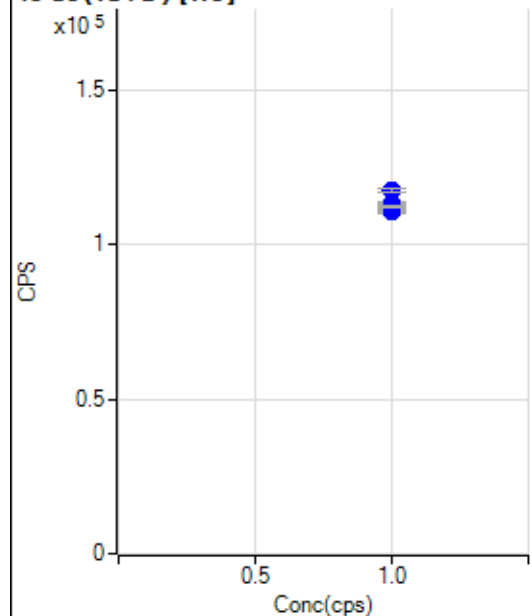
6 Li (ISTD) [No Gas]



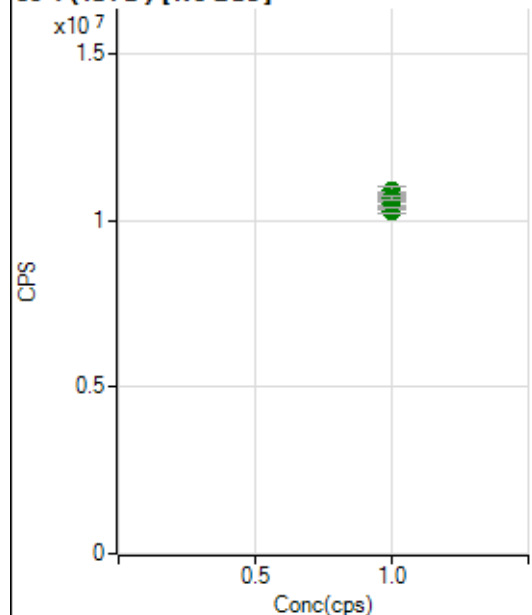
	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		1510755.90		A	0.9
2	☐	1.000		1536193.74		A	0.8
3	☐	1.000		1575718.23		A	2.1
4	☐	1.000		1568902.85		A	1.5
5	☐	1.000		1556357.01		A	2.9
6	☐	1.000		1584630.12		A	2.0
7	☐	1.000		1559671.50		A	2.5
8	☐	1.000		1576413.76		A	0.6

45 Sc (ISTD) [No Gas]

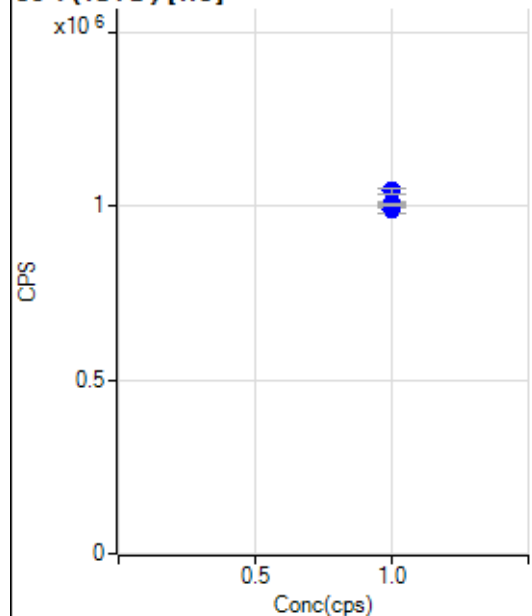
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		3990484.70		A	0.7
2	☐	1.000		4036984.35		A	1.5
3	☐	1.000		4147117.23		A	1.4
4	☐	1.000		4102985.70		A	3.0
5	☐	1.000		4064142.58		A	1.3
6	☐	1.000		4179145.29		A	0.4
7	☐	1.000		4104209.87		A	0.7
8	☐	1.000		4161668.96		A	0.4

45 Sc (ISTD) [He]

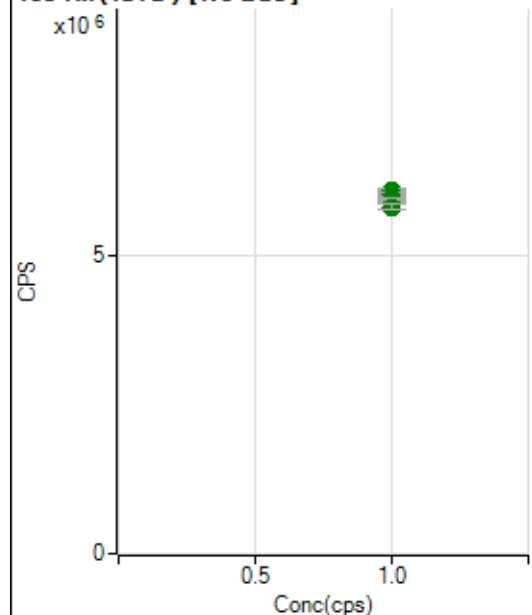
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		110606.86		P	1.4
2	☐	1.000		110996.69		P	0.6
3	☐	1.000		111790.10		P	0.5
4	☐	1.000		112695.76		P	0.4
5	☐	1.000		113111.34		P	0.8
6	☐	1.000		112122.70		P	1.7
7	☐	1.000		112278.28		P	0.7
8	☐	1.000		117197.93		P	1.0

89 Y (ISTD) [No Gas]

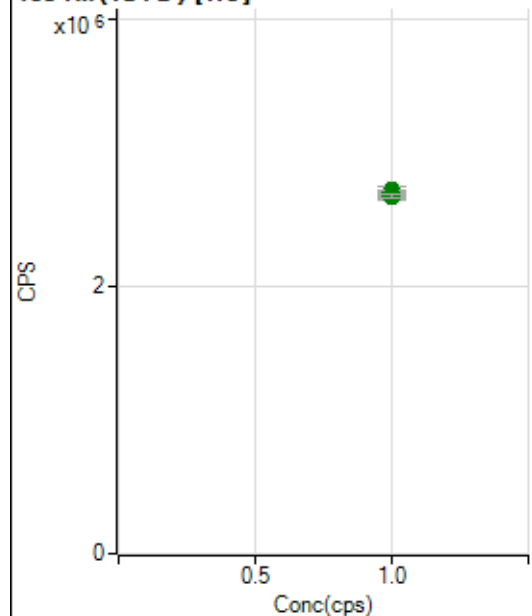
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		10284634.22		A	1.1
2	☐	1.000		10522967.14		A	1.3
3	☐	1.000		10732195.53		A	1.7
4	☐	1.000		10482915.26		A	1.7
5	☐	1.000		10676558.17		A	0.2
6	☐	1.000		10881590.81		A	2.1
7	☐	1.000		10698530.95		A	2.5
8	☐	1.000		10661914.70		A	1.2

89 Y (ISTD) [He]

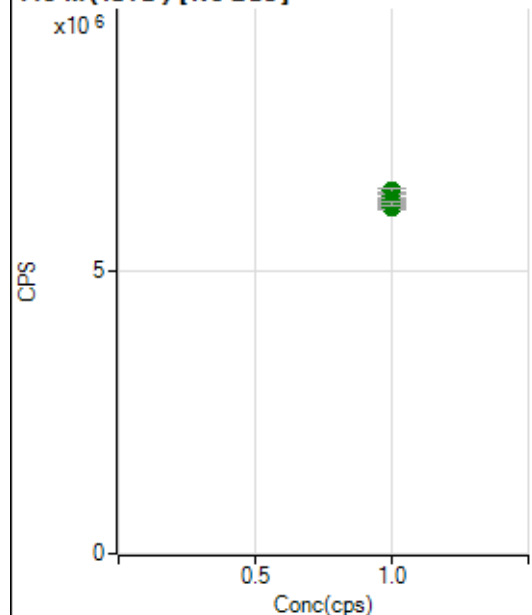
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		993293.45		P	2.4
2	☐	1.000		1002232.86		P	0.5
3	☐	1.000		999156.09		P	0.9
4	☐	1.000		1009242.75		P	0.4
5	☐	1.000		1009576.45		P	0.4
6	☐	1.000		1004592.46		P	2.0
7	☐	1.000		1004873.85		P	0.3
8	☐	1.000		1045031.92		P	1.3

103 Rh (ISTD) [No Gas]

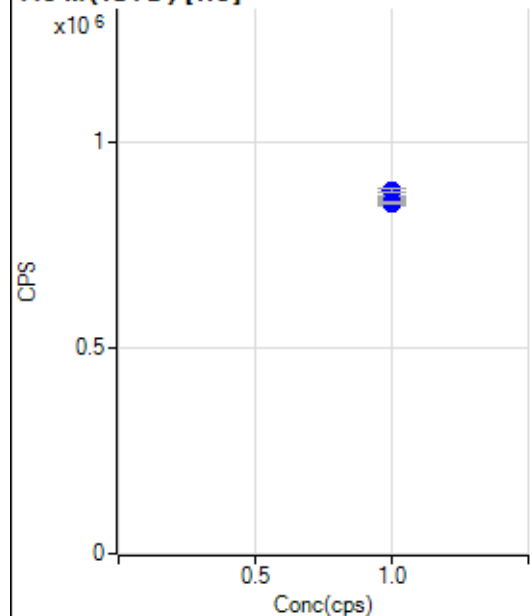
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		5906971.79		A	0.2
2	☐	1.000		5972013.85		A	1.2
3	☐	1.000		6048052.78		A	1.3
4	☐	1.000		6068740.72		A	1.6
5	☐	1.000		6012607.08		A	0.7
6	☐	1.000		6002754.30		A	1.2
7	☐	1.000		5939309.38		A	0.3
8	☐	1.000		5805847.31		A	1.8

103 Rh (ISTD) [He]

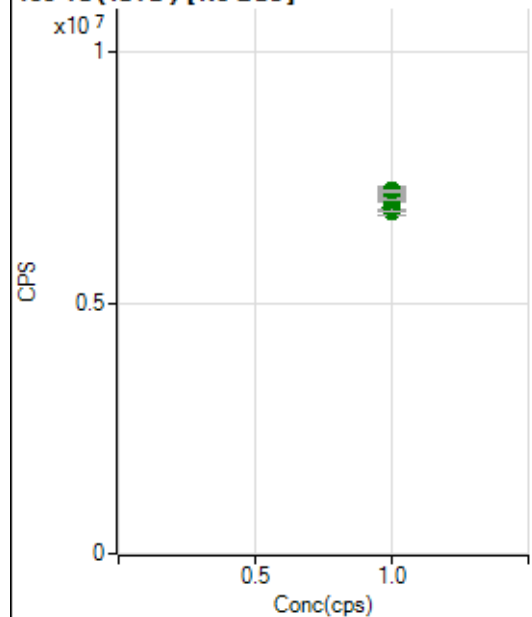
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		2704772.91		A	2.9
2	☐	1.000		2714250.86		A	0.6
3	☐	1.000		2695432.39		A	1.3
4	☐	1.000		2717017.86		A	2.1
5	☐	1.000		2684216.11		A	0.8
6	☐	1.000		2702385.52		A	1.3
7	☐	1.000		2672141.63		A	1.4
8	☐	1.000		2677906.52		A	1.2

115 In (ISTD) [No Gas]

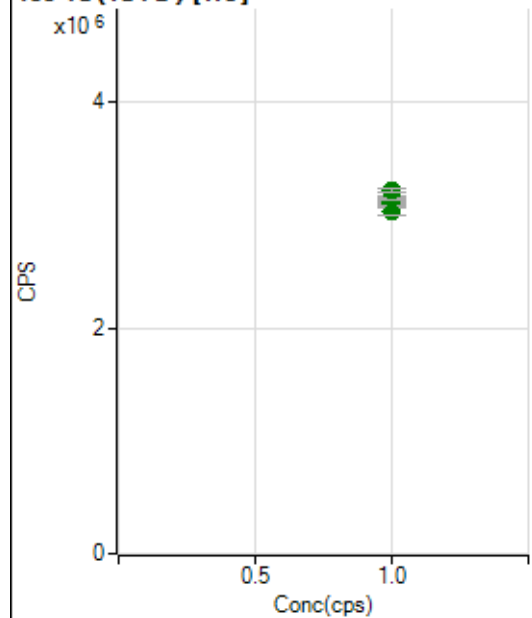
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		6162355.83		A	0.6
2	☐	1.000		6148210.07		A	1.8
3	☐	1.000		6363046.55		A	1.6
4	☐	1.000		6329256.48		A	2.2
5	☐	1.000		6266236.08		A	0.5
6	☐	1.000		6438953.13		A	1.7
7	☐	1.000		6264367.12		A	1.4
8	☐	1.000		6204795.05		A	0.8

115 In (ISTD) [He]

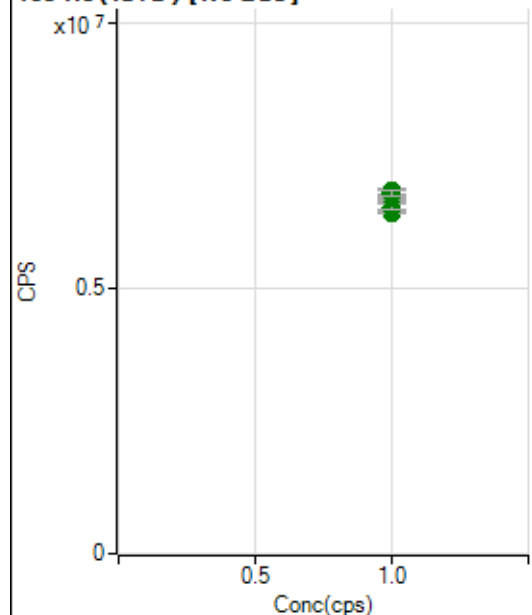
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		852222.54		P	2.1
2	☐	1.000		862249.28		P	0.4
3	☐	1.000		865213.02		P	1.0
4	☐	1.000		867515.75		P	0.5
5	☐	1.000		867593.79		P	0.6
6	☐	1.000		853341.00		P	1.6
7	☐	1.000		850470.23		P	0.4
8	☐	1.000		880672.98		P	1.2

159 Tb (ISTD) [No Gas]

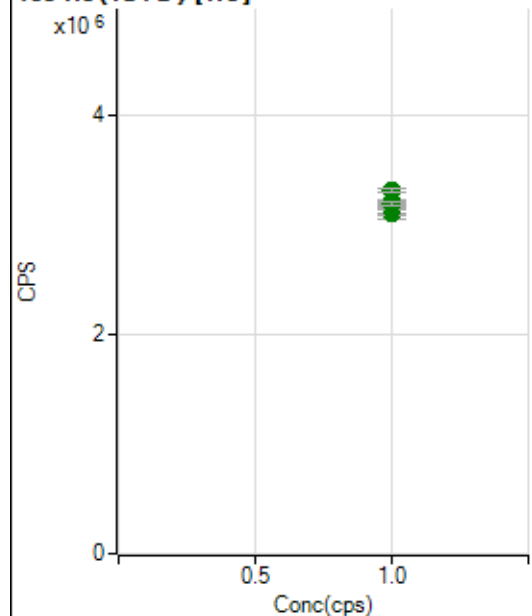
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		6809592.68		A	1.5
2	☐	1.000		6910539.90		A	2.7
3	☐	1.000		7086206.70		A	1.2
4	☐	1.000		7046174.90		A	1.1
5	☐	1.000		7073107.12		A	0.7
6	☐	1.000		7228795.24		A	2.1
7	☐	1.000		7225261.14		A	1.7
8	☐	1.000		7227466.42		A	0.4

159 Tb (ISTD) [He]

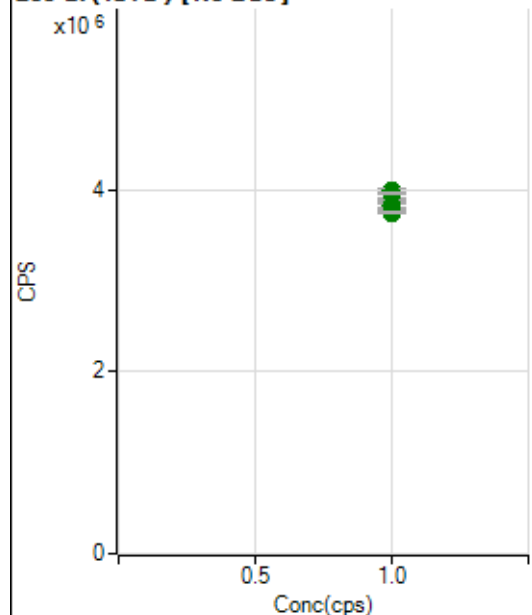
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		3039907.56		A	2.8
2	☐	1.000		3082763.57		A	1.1
3	☐	1.000		3101710.51		A	2.1
4	☐	1.000		3151297.52		A	0.8
5	☐	1.000		3133504.99		A	1.1
6	☐	1.000		3113306.03		A	1.7
7	☐	1.000		3147518.42		A	0.5
8	☐	1.000		3215552.73		A	1.0

165 Ho (ISTD) [No Gas]

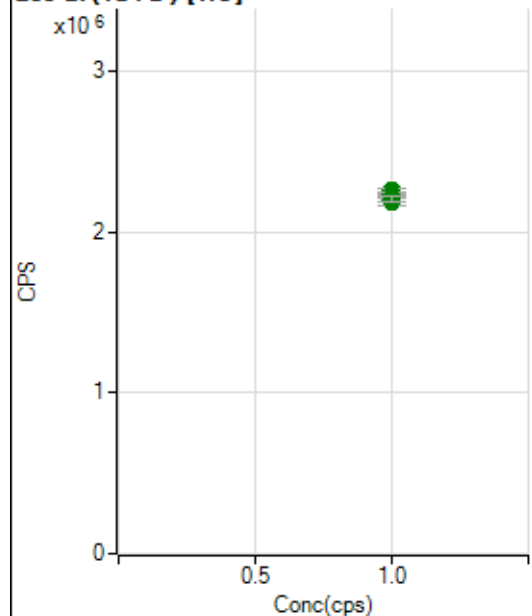
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		6422248.97		A	0.5
2	☐	1.000		6535581.87		A	2.4
3	☐	1.000		6686546.33		A	1.1
4	☐	1.000		6536687.25		A	2.2
5	☐	1.000		6694762.00		A	0.6
6	☐	1.000		6832895.94		A	1.7
7	☐	1.000		6790490.00		A	1.3
8	☐	1.000		6793127.72		A	1.7

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		3095873.25		A	2.9
2	☐	1.000		3100603.01		A	0.4
3	☐	1.000		3139389.19		A	2.1
4	☐	1.000		3147685.16		A	0.4
5	☐	1.000		3209561.55		A	1.3
6	☐	1.000		3192643.88		A	1.9
7	☐	1.000		3187774.50		A	1.1
8	☐	1.000		3308851.20		A	1.1

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		3781337.93		A	0.9
2	☐	1.000		3818091.92		A	1.6
3	☐	1.000		3915496.44		A	2.9
4	☐	1.000		3835780.11		A	2.8
5	☐	1.000		3903238.97		A	0.5
6	☐	1.000		3987259.46		A	1.7
7	☐	1.000		3961764.94		A	0.2
8	☐	1.000		3744430.92		A	0.6

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		2189764.34		A	2.6
2	☐	1.000		2234253.32		A	0.6
3	☐	1.000		2240343.61		A	2.4
4	☐	1.000		2255141.79		A	1.9
5	☐	1.000		2250589.77		A	1.3
6	☐	1.000		2231741.44		A	1.8
7	☐	1.000		2210860.45		A	0.1
8	☐	1.000		2203115.26		A	1.5

US EPA Tune Check Report

Operator Name Jaswal
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\P8101320IMS.b
Acq. Date-Time 2020-10-13 12:25:56
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		2968	29679.45			1.710	5.000
24		52048	520476.14			1.555	5.000
25		6970	69695.46			1.686	5.000
26		7848	78480.84			1.370	5.000
59		21829	218293.68			2.055	5.000
113		3654	36537.63			1.769	5.000
115		10557	105566.93			1.580	5.000
206		4147	41466.90			2.279	5.000
207		3453	34525.72			1.826	5.000
208		8506	85059.19			2.122	5.000
220		1	5.40			39.501	

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

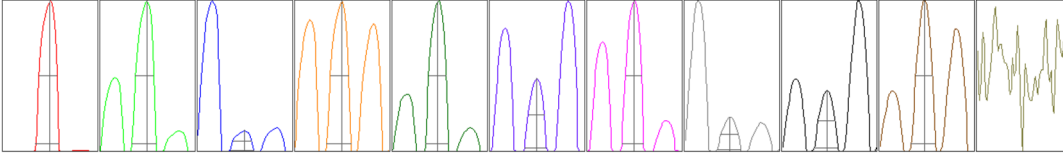
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	2994	2877	2991	2991	2986
24	52474	50674	52771	52211	52109
25	6959	6807	7079	7087	6916
26	7905	7684	7874	7967	7810
59	22105	21123	22079	22195	21644
113	3651	3574	3643	3754	3647
115	10593	10312	10698	10708	10473
206	4121	4006	4179	4265	4162
207	3408	3382	3460	3546	3466
208	8472	8271	8514	8777	8496

US EPA Tune Check Report

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

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	5493.74	9.00	8.90 - 9.10	
24	94817.37	24.00	23.90 - 24.10	
25	12669.99	25.00	24.90 - 25.10	
26	14477.18	26.00	25.90 - 26.10	
59	41351.80	58.95	58.90 - 59.10	
113	7537.07	113.00	112.90 - 113.10	
115	21461.26	115.00	114.90 - 115.10	
206	8060.08	205.95	205.90 - 206.10	
207	6722.84	206.95	206.90 - 207.10	
208	16739.30	207.95	207.90 - 208.10	
220			-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.57	0.727	0.900	
24	0.57	0.775	0.900	
25	0.59	0.738	0.900	
26	0.57	0.774	0.900	
59	0.55	0.729	0.900	
113	0.51	0.684	0.900	
115	0.51	0.687	0.900	
206	0.54	0.746	0.900	
207	0.54	0.753	0.900	
208	0.53	0.773	0.900	
220	1.02			

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode HMI Nebulizer Gas 0.51 L/min Dilution Gas 0.46 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	10.4 V	Deflect	14.0 V
Extract 2	-225.0 V	Cell Entrance	-30 V	Plate Bias	-50 V
Omega Bias	-90 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	180 V		

QP Parameters

Mass Gain	122	Axis Gain	0.9991	QP Bias	-4.0 V
Mass Offset	125	Axis Offset	-0.02		

Hardware Settings

Torch

Torch H	0.7 mm	Torch V	-0.4 mm
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EM

Discriminator	4.0 mV	Analog HV	2181 V	Pulse HV	1312 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		4670	46696.44			1.085	
89		2760	27601.71			1.112	
205		11149	111490.02			1.133	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	4735	4701	4663	4647	4603
89	2781	2768	2749	2790	2713
205	11257	11176	11213	11165	10932

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	HMI	Nebulizer Gas	0.51 L/min	Dilution Gas	0.46 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	10.4 V	Deflect	5.6 V
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US EPA Tune Check Report

Extract 2	-225.0 V	Cell Entrance	-50 V	Plate Bias	-60 V
Omega Bias	-90 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	122	Axis Gain	0.9991	QP Bias	-13.0 V
Mass Offset	125	Axis Offset	-0.02		
Hardware Settings					
Torch					
Torch H	0.7 mm	Torch V	-0.4 mm		
EM					
Discriminator	4.0 mV	Analog HV	2181 V	Pulse HV	1312 V