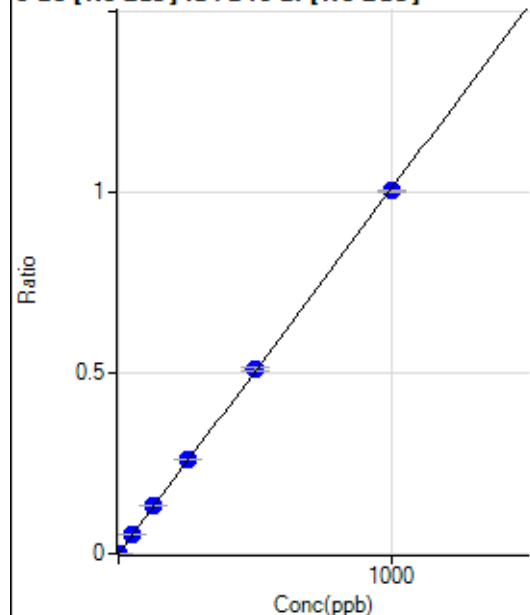


Calibration for 006CALS.d

Batch Folder: D:\Agilent\ICPMH\1\DATA\P8051120MS.b\
 Analysis File: P8051120MS.batch.bin
 DA Date-Time: 2020-05-11 17:48:00
 Calibration Title:
 Calibration Method: External Calibration
 VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	005CALB.d	S00	2020-05-11 12:53:40
2	006CALS.d	S02	2020-05-11 12:56:52
3	008CALS.d	S03	2020-05-11 13:03:12
4	009CALS.d	S04	2020-05-11 13:06:20
5	010CALS.d	S05	2020-05-11 13:09:25
6	011CALS.d	S06	2020-05-11 13:12:24
7	012CALS.d	S07	2020-05-11 13:15:24
8	013CALS.d	S08	2020-05-11 13:18:22

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	16.67	0.0000	P	6.4
2	☐	1.000	0.972	712.55	0.0010	P	5.9
3	☐	50.000	52.089	40652.92	0.0527	P	0.5
4	☐	125.000	130.357	100960.42	0.1318	P	1.8
5	☐	250.000	258.760	200246.54	0.2615	P	0.7
6	☐	500.000	506.553	395668.57	0.5120	P	1.7
7	☐	1000.000	993.760	772464.57	1.0044	P	0.3
8	☐			767.21	0.0010	P	5.5

$$y = 0.0010 * x + 2.3620E-005$$

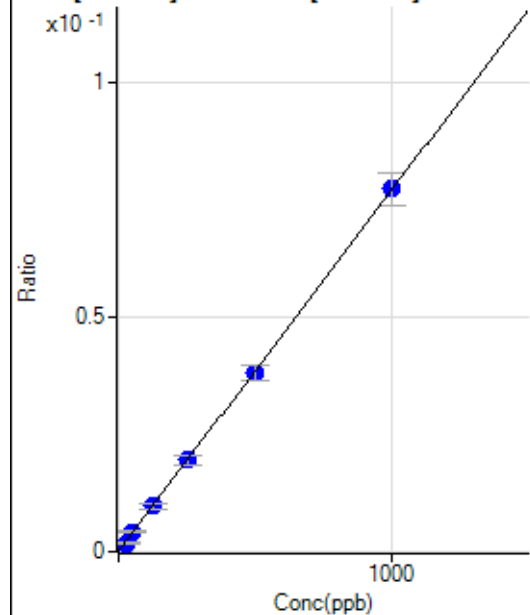
$$R = 0.9999$$

$$DL = 0.004486$$

$$BEC = 0.02337$$

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	132.64	0.0002	P	13.6
2	☐	25.000	21.427	1299.81	0.0018	P	12.0
3	☐	50.000	52.027	3237.06	0.0042	P	12.2
4	☐	125.000	124.584	7488.45	0.0098	P	12.1
5	☐	250.000	252.092	14994.05	0.0196	P	11.0
6	☐	500.000	492.170	29447.62	0.0381	P	8.6
7	☐	1000.000	1003.432	59582.50	0.0774	P	9.3
8	☐			11091.36	0.0151	P	13.4

$$y = 7.6979E-005 * x + 1.8784E-004$$

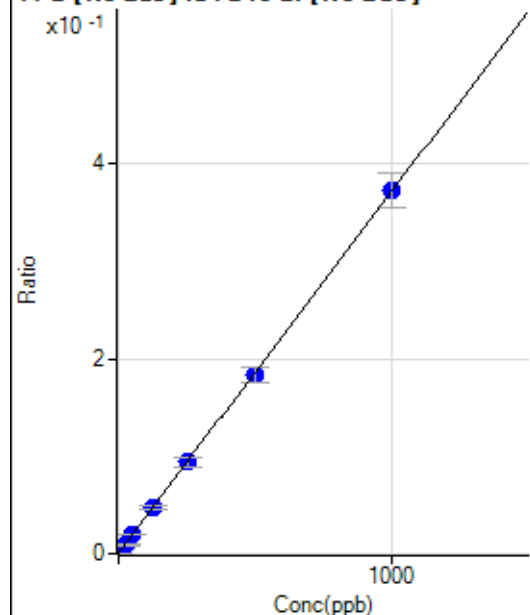
$$R = 0.9999$$

$$DL = 0.992$$

$$BEC = 2.44$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	593.90	0.0008	P	8.7
2	☐	25.000	22.179	6402.15	0.0091	P	11.9
3	☐	50.000	51.041	15234.23	0.0197	P	8.9
4	☐	125.000	126.293	36444.60	0.0476	P	11.2
5	☐	250.000	251.479	71875.98	0.0939	P	10.6
6	☐	500.000	494.528	142207.38	0.1839	P	8.5
7	☐	1000.000	1002.223	286100.53	0.3718	P	9.5
8	☐			53044.99	0.0722	P	12.4

$$y = 3.7013E-004 * x + 8.4144E-004$$

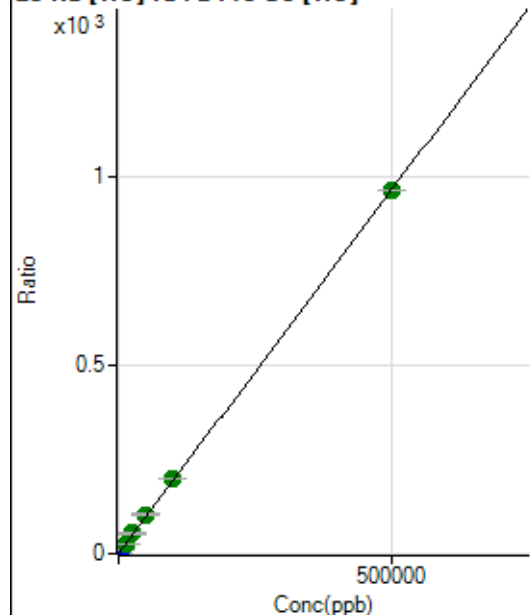
$$R = 1.0000$$

$$DL = 0.594$$

$$BEC = 2.273$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	26730.61	0.4594	P	3.2
2	☐	500.000	506.223	86369.36	1.4333	P	1.7
3	☐	5000.000	5408.988	692525.31	10.8660	P	1.6
4	☐	12500.000	13350.000	1645582.63	26.1442	A	1.3
5	☐	25000.000	27949.066	3243219.89	54.2322	A	10.6
6	☐	50000.000	53981.759	6387309.26	104.3179	A	1.4
7	☐	100000.00	102343.11	12240221.37	197.3631	A	0.2
8	☐	500000.00	498960.40	58026072.13	960.4375	A	0.1

$$y = 0.0019 * x + 0.4594$$

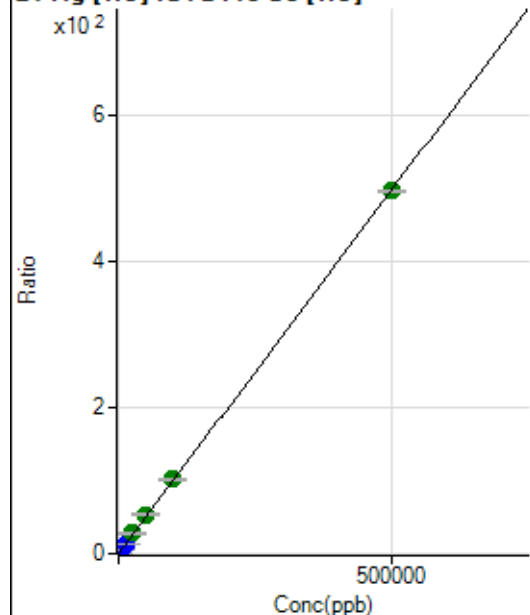
$$R = 1.0000$$

$$DL = 22.64$$

$$BEC = 238.8$$

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	227.78	0.0039	P	36.1
2	☐	500.000	514.744	31097.54	0.5161	P	2.3
3	☐	5000.000	5465.463	346849.52	5.4423	P	1.9
4	☐	12500.000	13519.535	846941.25	13.4564	P	1.7
5	☐	25000.000	28437.092	1693132.87	28.3000	A	9.8
6	☐	50000.000	53693.912	3271480.52	53.4315	A	2.3
7	☐	100000.00	102100.93	6301028.53	101.5984	A	1.0
8	☐	500000.00	499008.41	29999084.00	496.5373	A	0.4

$$y = 9.9504\text{E-}004 * x + 0.0039$$

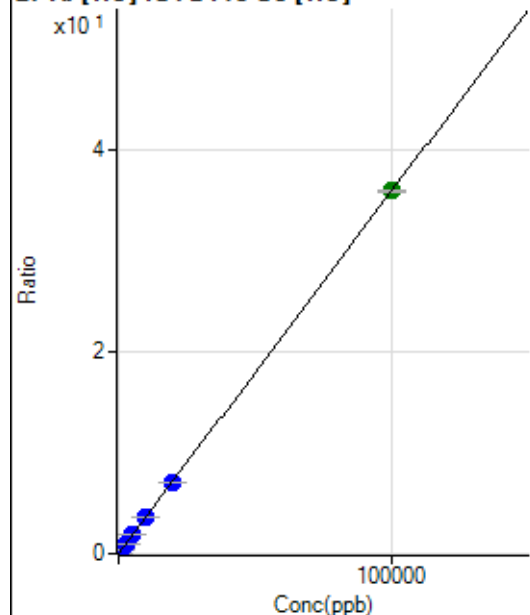
$$R = 1.0000$$

$$DL = 4.255$$

$$BEC = 3.932$$

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	284.62	0.0049	P	7.8
2	☐	20.000	20.839	746.54	0.0124	P	4.5
3	☐	1000.000	1020.742	23715.18	0.3721	P	1.5
4	☐	2500.000	2497.981	56865.40	0.9035	P	1.8
5	☐	5000.000	5289.309	114162.29	1.9076	P	9.3
6	☐	10000.000	10190.244	224766.12	3.6707	P	0.6
7	☐	20000.000	19425.973	433699.12	6.9931	P	0.3
8	☐	100000.00	100081.15	2175435.15	36.0076	A	0.3

$$y = 3.5974\text{E-}004 * x + 0.0049$$

$$R = 1.0000$$

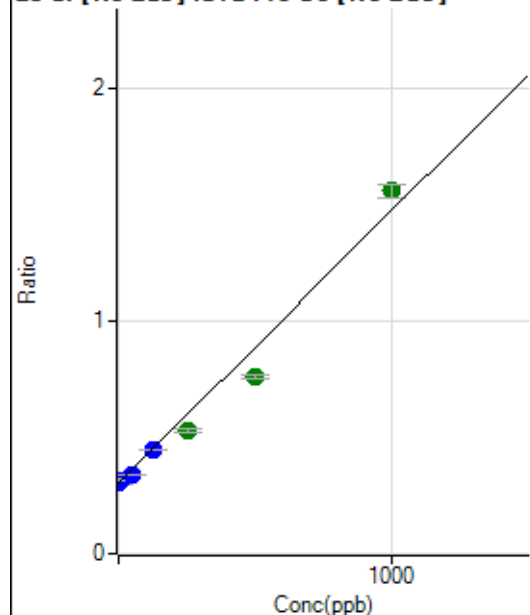
$$DL = 3.181$$

$$BEC = 13.6$$

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	506102.14	0.3043	P	2.4
2	☐	10.000	9.526	523310.73	0.3155	P	2.4
3	☐	50.000	29.876	615068.12	0.3393	P	0.3
4	☐	125.000	121.980	803083.69	0.4474	P	0.8
5	☐	250.000	190.562	955235.81	0.5278	A	3.1
6	☐	500.000	389.410	1391783.77	0.7610	A	1.3
7	☐	1000.000	1071.543	2775825.56	1.5611	A	4.0
8	☐			797326.46	0.4587	P	2.3

$$y = 0.0012 * x + 0.3043$$

R = 0.9899

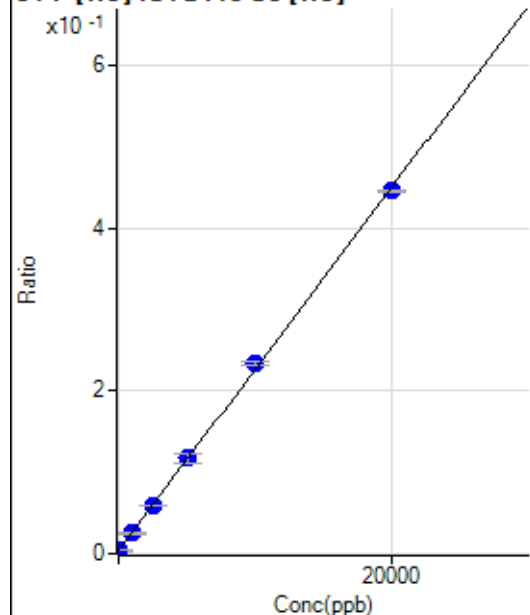
DL = 18.48

BEC = 259.5

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	-41.266	163.89	0.0028	P	34.4
2	☐	0.000	41.266	280.56	0.0047	P	31.3
3	☐	1000.000	970.821	1616.80	0.0254	P	10.4
4	☐	2500.000	2494.924	3733.91	0.0593	P	1.3
5	☐	5000.000	5084.091	7007.43	0.1170	P	9.5
6	☐	10000.000	10323.735	14312.97	0.2337	P	1.6
7	☐	20000.000	19819.203	27615.59	0.4453	P	0.3
8	☐			197.23	0.0033	P	49.6

$$y = 2.2278E-005 * x + 0.0037$$

R = 0.9998

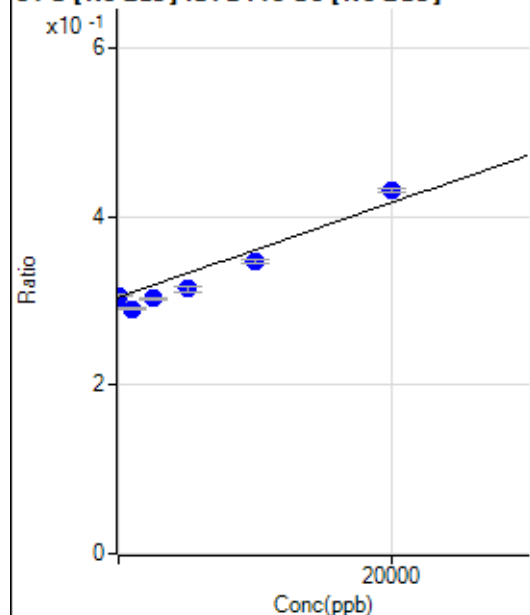
DL = 163.3

BEC = 167.9

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	-304.231	503254.43	0.3026	P	2.9
2	☐	0.000	304.231	507725.39	0.3060	P	0.8
3	☐	1000.000	-2500.458	526140.85	0.2903	P	0.9
4	☐	2500.000	-204.172	544249.39	0.3032	P	0.8
5	☐	5000.000	1825.606	569381.91	0.3146	P	2.2
6	☐	10000.000	7708.814	635667.79	0.3476	P	1.4
7	☐	20000.000	22452.236	765378.02	0.4303	P	1.0
8	☐			482803.82	0.2779	P	1.0

$$y = 5.6127E-006 * x + 0.3043$$

$$R = 0.9765$$

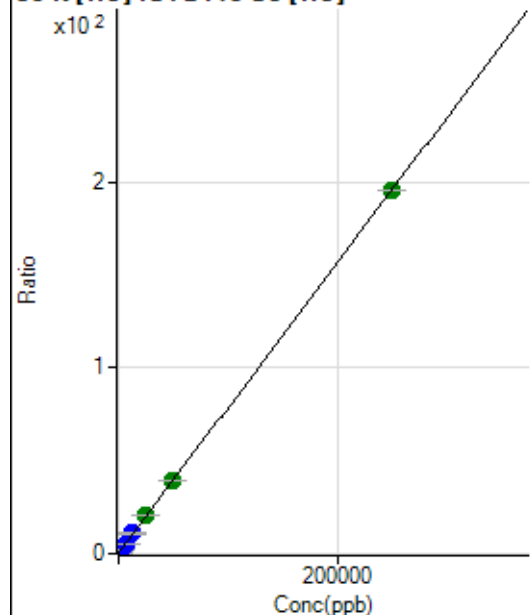
$$DL = 3010$$

$$BEC = 5.422E+04$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	20492.82	0.3522	P	3.9
2	☐	500.000	479.566	43783.64	0.7266	P	2.5
3	☐	2500.000	2625.165	153077.79	2.4018	P	1.7
4	☐	6250.000	6491.491	341158.98	5.4203	P	1.3
5	☐	12500.000	13777.200	664576.24	11.1084	P	9.8
6	☐	25000.000	26583.289	1292391.77	21.1063	A	0.3
7	☐	50000.000	50021.360	2443828.16	39.4049	A	1.1
8	☐	250000.00	249766.29	11802332.90	195.3497	A	0.1

$$y = 7.8072E-004 * x + 0.3522$$

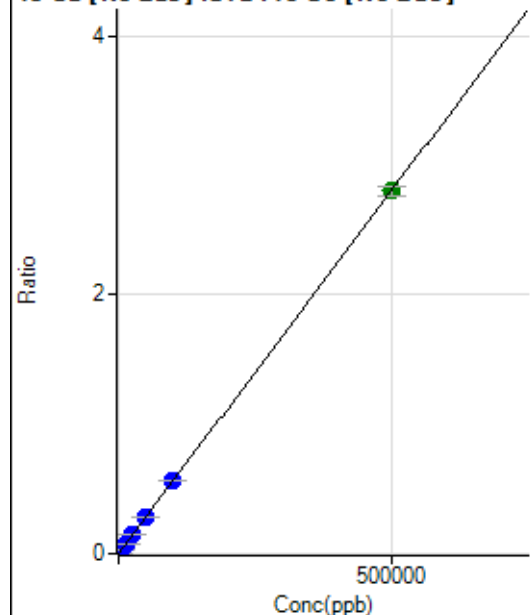
$$R = 1.0000$$

$$DL = 52.75$$

$$BEC = 451.2$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	463.91	0.0003	P	8.1
2	☐	500.000	518.302	5287.23	0.0032	P	1.6
3	☐	5000.000	5187.785	53240.80	0.0294	P	2.3
4	☐	12500.000	12930.268	130698.56	0.0728	P	0.5
5	☐	25000.000	25403.315	258456.90	0.1428	P	1.0
6	☐	50000.000	50022.677	513635.75	0.2809	P	1.1
7	☐	100000.00	101009.12	1008115.03	0.5668	P	1.6
8	☐	500000.00	499763.08	4869671.77	2.8035	A	2.5

$$y = 5.6091\text{E-}006 * x + 2.7906\text{E-}004$$

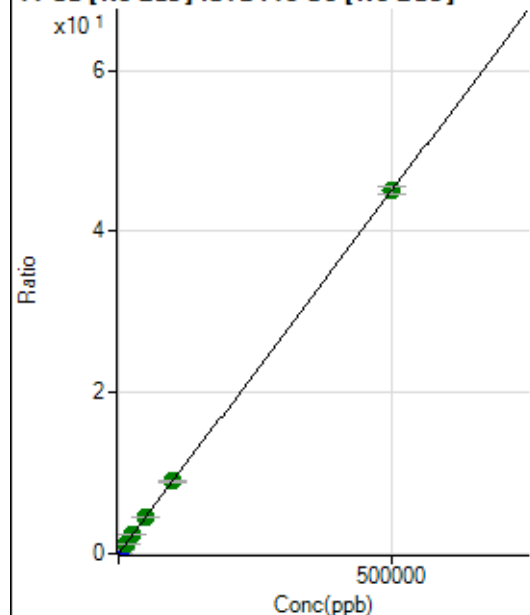
$$R = 1.0000$$

$$DL = 12.09$$

$$BEC = 49.75$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	26897.84	0.0162	P	5.0
2	☐	500.000	502.352	101890.30	0.0614	P	1.3
3	☐	5000.000	5211.840	879913.44	0.4855	P	2.0
4	☐	12500.000	12824.632	2102252.00	1.1711	A	0.4
5	☐	25000.000	25160.837	4131245.58	2.2820	A	1.0
6	☐	50000.000	49630.561	8203355.74	4.4855	A	0.9
7	☐	100000.00	99424.259	15952105.39	8.9696	A	1.3
8	☐	500000.00	500133.81	78263869.11	45.0545	A	2.2

$$y = 9.0052\text{E-}005 * x + 0.0162$$

$$R = 1.0000$$

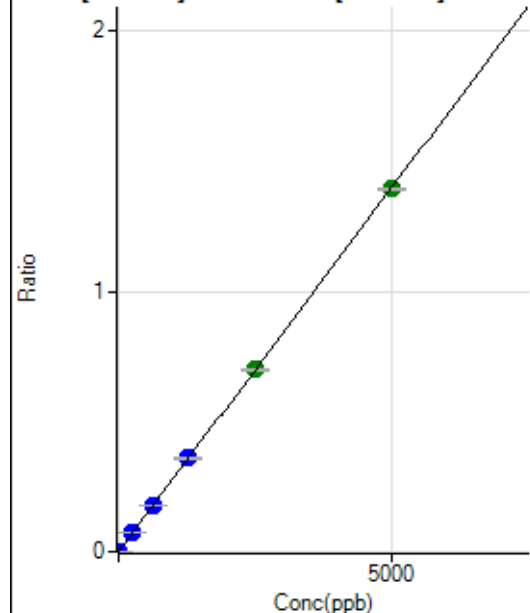
$$DL = 27.03$$

$$BEC = 179.7$$

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	486.13	0.0003	P	10.7
2	☐	5.000	5.047	2825.36	0.0017	P	6.2
3	☐	250.000	258.964	131695.87	0.0727	P	1.6
4	☐	625.000	642.763	322985.46	0.1799	P	0.7
5	☐	1250.000	1288.389	652270.01	0.3604	P	1.8
6	☐	2500.000	2501.179	1278802.42	0.6993	A	1.8
7	☐	5000.000	4987.145	2479478.98	1.3940	A	0.2
8	☐			2833.69	0.0016	P	6.8

$$y = 2.7947\text{E-}004 * x + 2.9261\text{E-}004$$

$$R = 1.0000$$

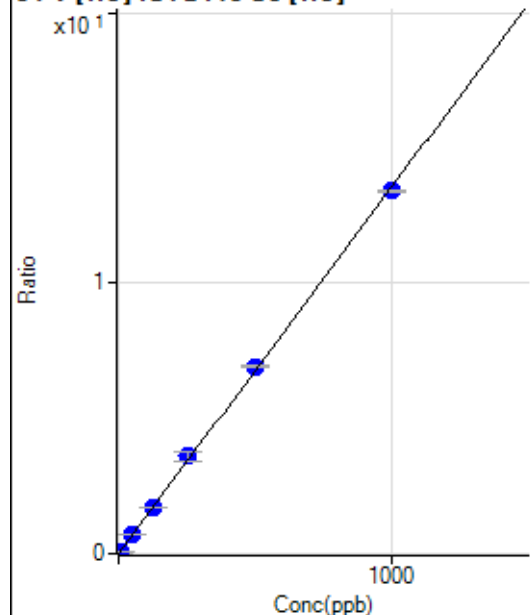
$$DL = 0.3355$$

$$BEC = 1.047$$

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	15.56	0.0003	P	60.3
2	☐	5.000	5.085	4163.98	0.0691	P	6.0
3	☐	50.000	50.239	43383.32	0.6807	P	0.3
4	☐	125.000	126.441	107805.38	1.7127	P	1.3
5	☐	250.000	265.886	215395.08	3.6014	P	10.3
6	☐	500.000	511.151	423923.33	6.9232	P	0.3
7	☐	1000.000	990.261	831785.21	13.4121	P	0.7
8	☐			915.60	0.0152	P	2.7

$$y = 0.0135 * x + 2.6577\text{E-}004$$

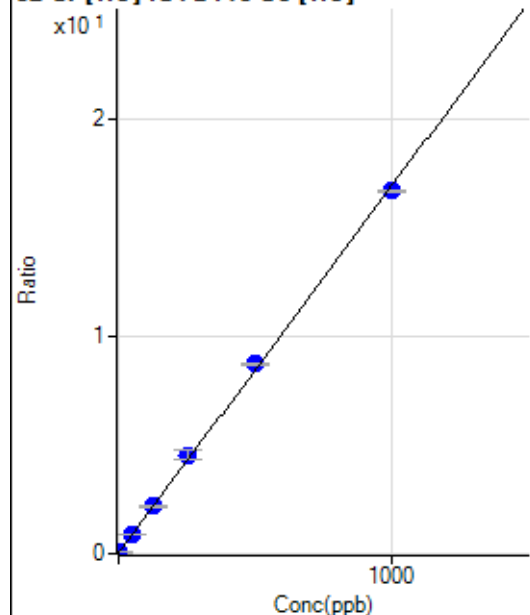
$$R = 0.9998$$

$$DL = 0.0355$$

$$BEC = 0.01962$$

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	1211.17	0.0208	P	4.8
2	☐	2.000	1.985	3280.41	0.0544	P	5.1
3	☐	50.000	50.950	56262.40	0.8828	P	1.1
4	☐	125.000	127.288	136841.47	2.1743	P	2.1
5	☐	250.000	267.999	272540.12	4.5548	P	9.5
6	☐	500.000	515.436	535211.77	8.7409	P	1.0
7	☐	1000.000	987.449	1037344.94	16.7263	P	0.2
8	☐			28601.98	0.4734	P	1.0

$$y = 0.0169 * x + 0.0208$$

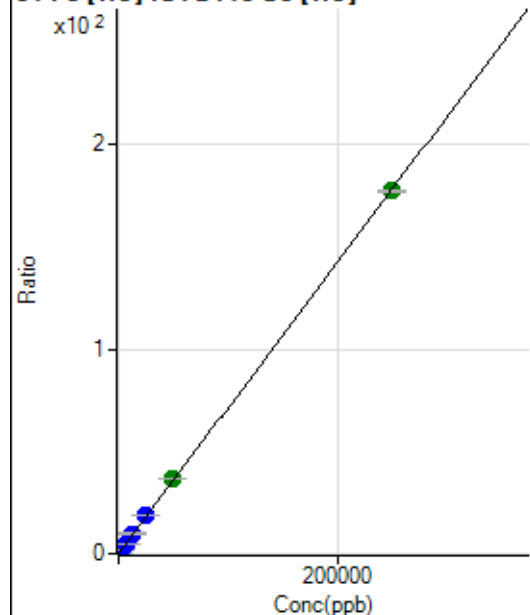
$$R = 0.9996$$

$$DL = 0.1786$$

$$BEC = 1.231$$

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	396.31	0.0068	P	16.4
2	☐	50.000	52.902	2676.21	0.0444	P	3.9
3	☐	2500.000	2621.243	119112.08	1.8689	P	2.1
4	☐	6250.000	6567.015	294076.89	4.6720	P	0.7
5	☐	12500.000	13773.480	586005.95	9.7915	P	9.2
6	☐	25000.000	26503.208	1153267.65	18.8348	P	0.9
7	☐	50000.000	51604.463	2273967.52	36.6668	A	0.9
8	☐	250000.00	249455.97	10706720.84	177.2210	A	0.9

$$y = 7.1040E-004 * x + 0.0068$$

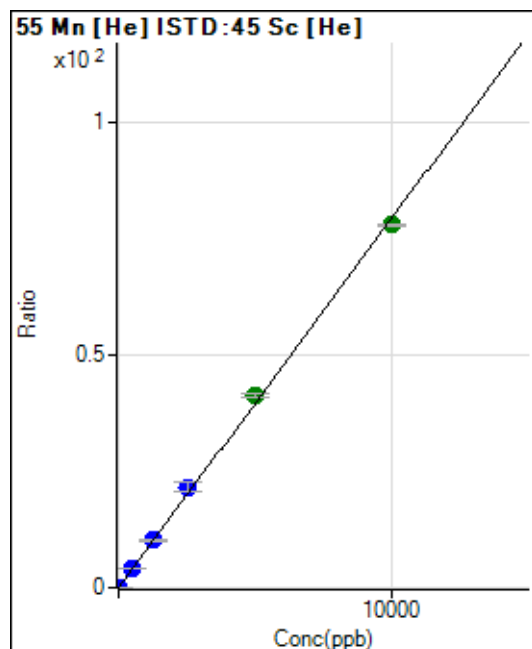
$$R = 1.0000$$

$$DL = 4.705$$

$$BEC = 9.577$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	90.00	0.0015	P	18.7
2	☐	1.000	1.038	591.13	0.0098	P	13.3
3	☐	500.000	516.987	261903.30	4.1093	P	0.6
4	☐	1250.000	1282.624	641547.36	10.1926	P	1.2
5	☐	2500.000	2724.125	1295326.00	21.6461	P	9.4
6	☐	5000.000	5215.557	2537493.05	41.4418	A	1.2
7	☐	10000.000	9831.263	4844722.85	78.1160	A	0.6
8	☐			8023.43	0.1328	P	3.2

$$y = 0.0079 * x + 0.0015$$

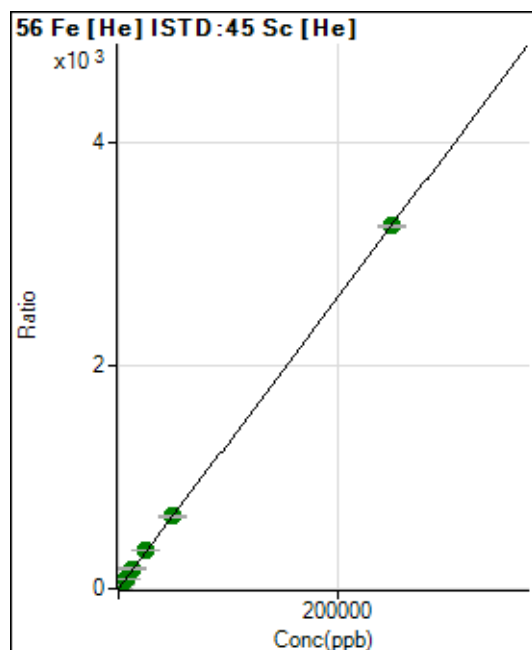
$$R = 0.9993$$

$$DL = 0.1092$$

$$BEC = 0.1941$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	2576.20	0.0443	P	1.9
2	☐	50.000	51.773	43332.53	0.7191	P	1.7
3	☐	2500.000	2618.773	2178374.50	34.1783	A	0.5
4	☐	6250.000	6367.541	5226523.09	83.0412	A	1.7
5	☐	12500.000	13596.881	10608302.78	177.2711	A	9.4
6	☐	25000.000	26014.207	20765326.16	339.1232	A	0.7
7	☐	50000.000	49734.141	40206361.55	648.2977	A	0.5
8	☐	250000.00	249892.78	196793800.6	3,257.240	A	0.6

$$y = 0.0130 * x + 0.0443$$

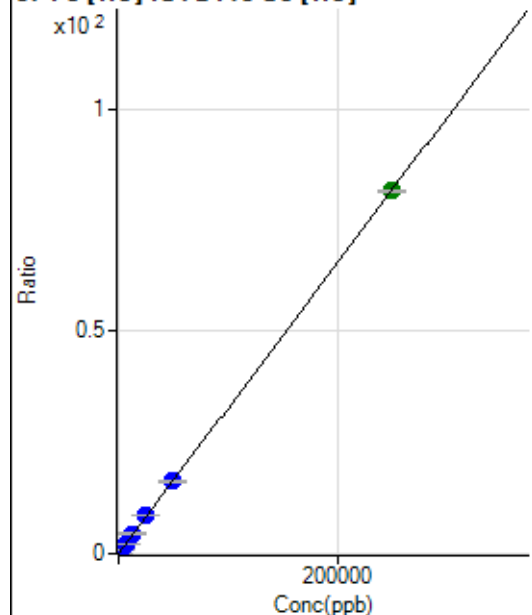
$$R = 1.0000$$

$$DL = 0.1904$$

$$BEC = 3.396$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	96.30	0.0017	P	13.1
2	☐	50.000	52.389	1131.55	0.0188	P	5.8
3	☐	2500.000	2567.927	53572.59	0.8406	P	2.3
4	☐	6250.000	6386.252	131427.28	2.0881	P	1.1
5	☐	12500.000	13517.218	264400.80	4.4178	P	9.2
6	☐	25000.000	26085.522	521935.27	8.5239	P	0.4
7	☐	50000.000	49720.261	1007481.02	16.2454	P	1.4
8	☐	250000.00	249892.44	4932593.74	81.6423	A	0.5

$$y = 3.2670\text{E-}004 * x + 0.0017$$

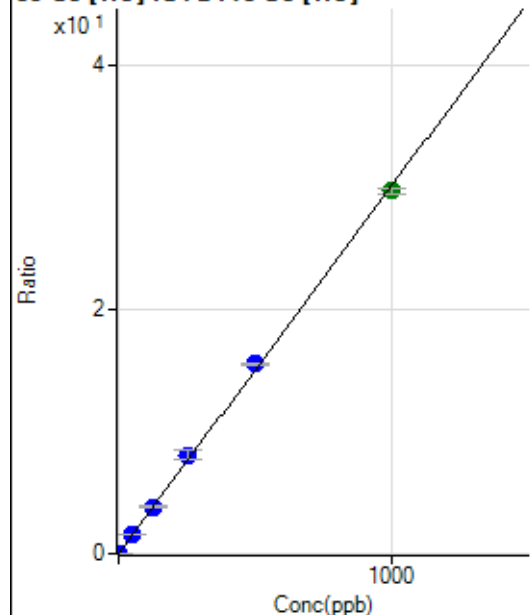
R = 1.0000

DL = 1.986

BEC = 5.057

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	66.67	0.0011	P	33.2
2	☐	1.000	0.949	1789.02	0.0297	P	6.6
3	☐	50.000	51.163	98273.63	1.5419	P	0.6
4	☐	125.000	127.730	242176.25	3.8477	P	1.7
5	☐	250.000	268.489	483845.91	8.0866	P	9.6
6	☐	500.000	516.254	952024.88	15.5479	P	0.8
7	☐	1000.000	986.851	1843123.95	29.7197	A	1.3
8	☐			4515.20	0.0747	P	1.6

$$y = 0.0301 * x + 0.0011$$

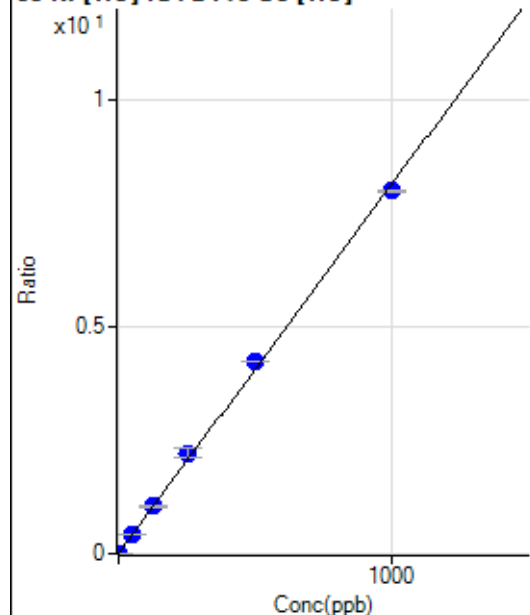
R = 0.9996

DL = 0.03772

BEC = 0.03785

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	107.78	0.0019	P	18.2
2	☐	1.000	1.037	620.02	0.0103	P	5.7
3	☐	50.000	52.167	27180.46	0.4265	P	1.3
4	☐	125.000	128.524	65955.20	1.0480	P	2.5
5	☐	250.000	272.786	132938.52	2.2222	P	10.0
6	☐	500.000	521.584	260070.09	4.2473	P	0.7
7	☐	1000.000	982.963	496314.67	8.0028	P	0.6
8	☐			8900.64	0.1473	P	1.6

$$y = 0.0081 * x + 0.0019$$

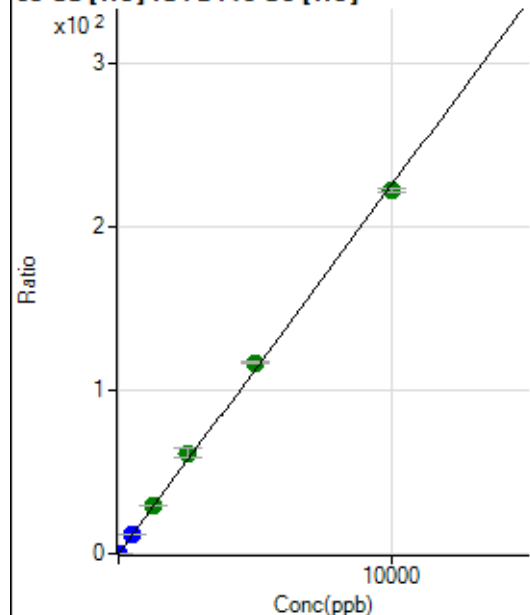
$$R = 0.9993$$

$$DL = 0.1249$$

$$BEC = 0.2281$$

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	394.45	0.0068	P	8.8
2	☐	2.000	2.094	3249.30	0.0539	P	1.4
3	☐	500.000	524.454	752792.06	11.8116	P	1.0
4	☐	1250.000	1299.395	1841356.71	29.2545	A	1.3
5	☐	2500.000	2719.386	3662520.74	61.2167	A	9.7
6	☐	5000.000	5180.630	7140765.52	116.6163	A	0.5
7	☐	10000.000	9847.442	13746873.40	221.6603	A	0.9
8	☐			16823.39	0.2784	P	1.7

$$y = 0.0225 * x + 0.0068$$

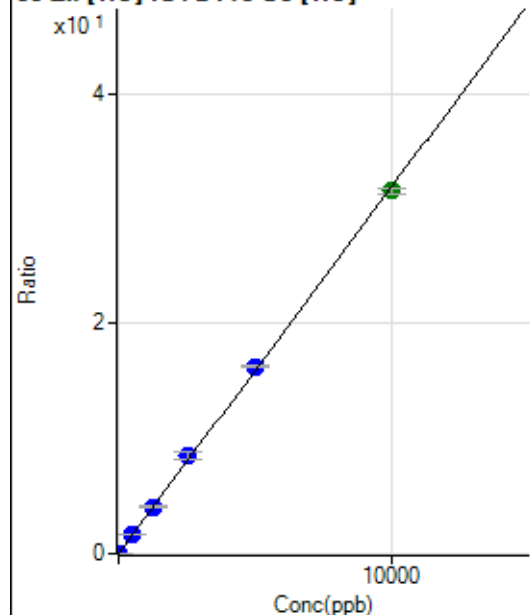
$$R = 0.9995$$

$$DL = 0.07908$$

$$BEC = 0.3009$$

Weight: <None>

Min Conc: 0

⁶⁶Zn [He] ISTD: ⁴⁵Sc [He]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	165.56	0.0028	P	9.7
2	☐	2.000	1.830	522.24	0.0087	P	3.0
3	☐	500.000	513.002	104285.52	1.6363	P	1.2
4	☐	1250.000	1271.141	254908.26	4.0503	P	2.3
5	☐	2500.000	2673.463	509682.83	8.5154	P	9.0
6	☐	5000.000	5112.981	997041.15	16.2830	P	0.5
7	☐	10000.000	9896.851	1954454.24	31.5153	A	1.7
8	☐			9648.93	0.1597	P	1.9

$$y = 0.0032 * x + 0.0028$$

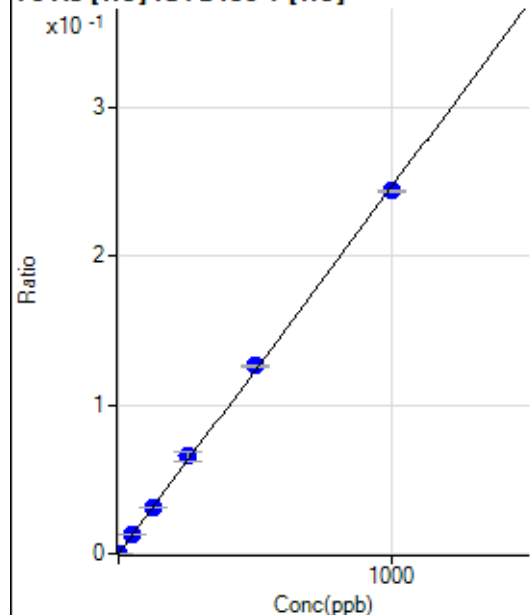
$$R = 0.9997$$

$$DL = 0.259$$

$$BEC = 0.8923$$

Weight: <None>

Min Conc: 0

⁷⁵As [He] ISTD: ⁸⁹Y [He]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	6.67	0.0000	P	55.7
2	☐	1.000	0.994	140.35	0.0003	P	13.5
3	☐	50.000	51.136	7206.24	0.0126	P	0.3
4	☐	125.000	124.682	17573.65	0.0308	P	0.6
5	☐	250.000	265.807	35740.82	0.0656	P	9.3
6	☐	500.000	512.695	70643.41	0.1264	P	0.7
7	☐	1000.000	989.684	137824.09	0.2441	P	0.9
8	☐			164.35	0.0003	P	8.5

$$y = 2.4659E-004 * x + 1.2678E-005$$

$$R = 0.9997$$

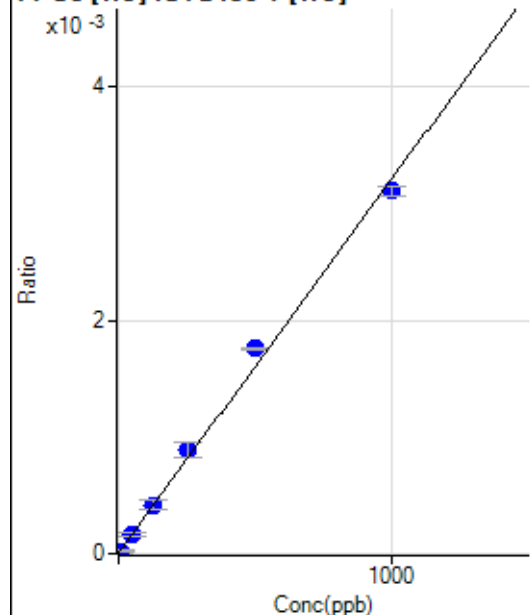
$$DL = 0.08597$$

$$BEC = 0.05141$$

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	2.22	0.0000	P	86.6
2	☐	5.000	5.056	11.11	0.0000	P	91.5
3	☐	50.000	49.150	92.22	0.0002	P	19.8
4	☐	125.000	129.216	238.90	0.0004	P	21.7
5	☐	250.000	276.291	483.35	0.0009	P	13.7
6	☐	500.000	547.241	981.16	0.0018	P	1.0
7	☐	1000.000	969.322	1754.57	0.0031	P	2.9
8	☐			3.33	0.0000	P	100.

$$y = 3.2012\text{E-}006 * x + 4.1695\text{E-}006$$

$$R = 0.9978$$

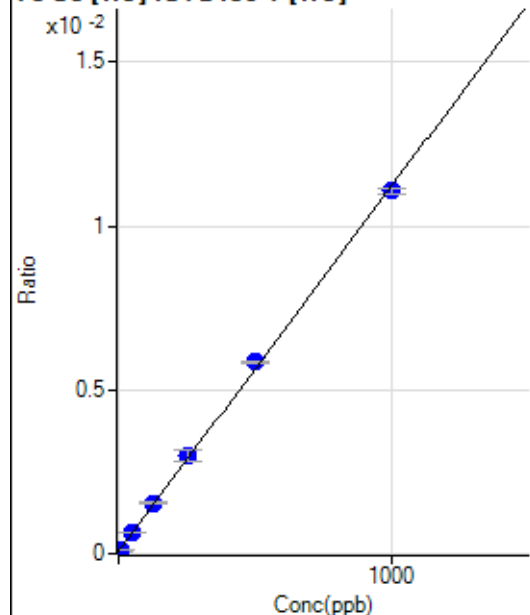
$$DL = 3.384$$

$$BEC = 1.302$$

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	36.67	0.0001	P	24.8
2	☐	5.000	4.897	68.01	0.0001	P	3.0
3	☐	50.000	52.695	375.37	0.0007	P	1.7
4	☐	125.000	132.107	881.45	0.0015	P	4.8
5	☐	250.000	262.237	1629.26	0.0030	P	11.6
6	☐	500.000	517.844	3263.38	0.0058	P	0.3
7	☐	1000.000	986.996	6251.02	0.0111	P	1.4
8	☐			41.67	0.0001	P	27.9

$$y = 1.1143\text{E-}005 * x + 7.0361\text{E-}005$$

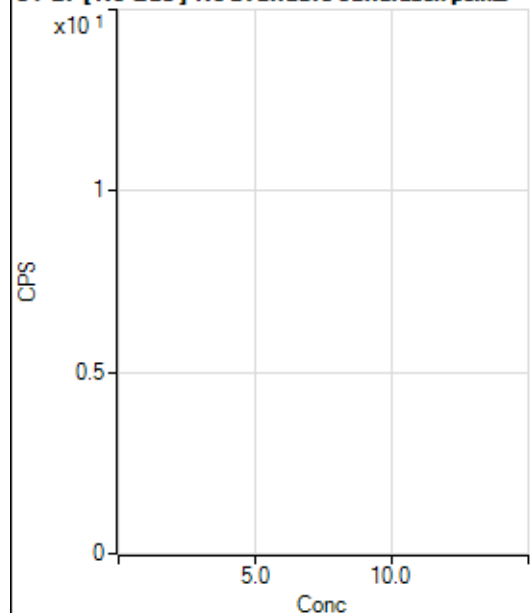
$$R = 0.9997$$

$$DL = 4.692$$

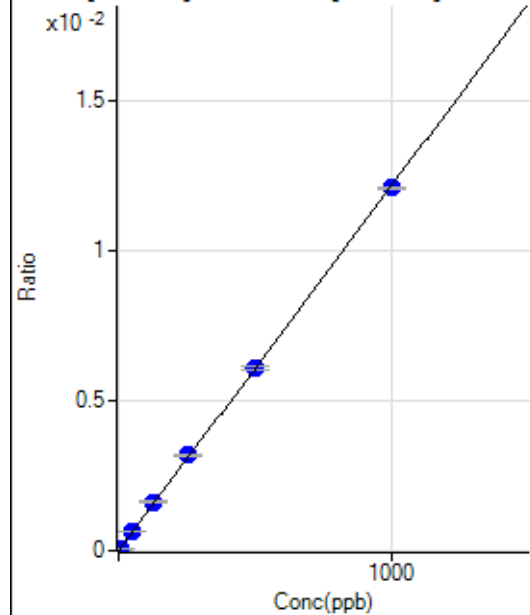
$$BEC = 6.314$$

Weight: <None>

Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2142.37		P	7.8
2	☐			2045.60		P	5.7
3	☐			2035.58		P	2.3
4	☐			2015.55		P	6.4
5	☐			1938.80		P	2.6
6	☐			1998.87		P	4.5
7	☐			2135.69		P	4.3
8	☐			2145.71		P	3.4

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	-60.87	0.0000	P	-61.
2	☐	5.000	5.756	239.31	0.0001	P	9.7
3	☐	50.000	53.608	2962.18	0.0006	P	4.0
4	☐	125.000	133.523	7445.03	0.0016	P	2.2
5	☐	250.000	262.463	14753.97	0.0032	P	1.6
6	☐	500.000	502.043	28932.34	0.0061	P	1.9
7	☐	1000.000	994.613	56824.14	0.0121	P	0.8
8	☐			75.97	0.0000	P	36.7

$$y = 1.2160E-005 * x - 1.4350E-005$$

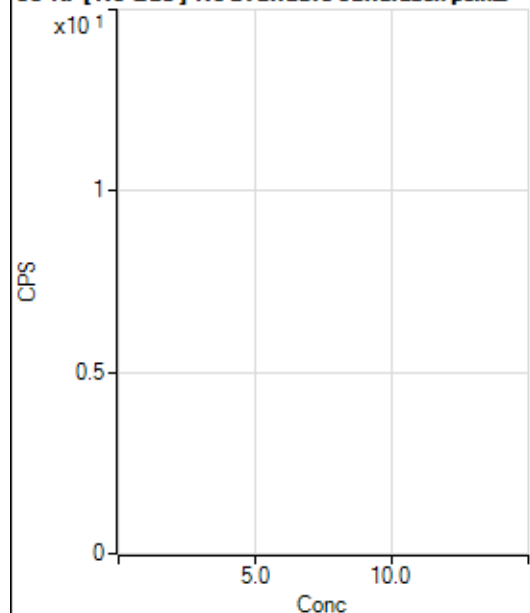
$$R = 0.9999$$

$$DL = 2.191$$

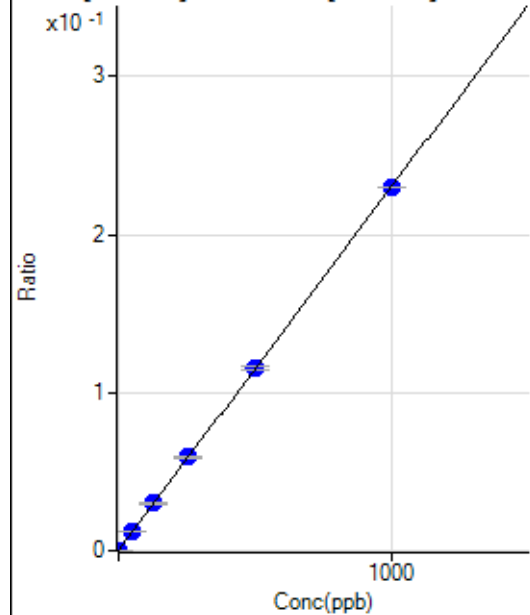
$$BEC = -1.18$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			507.79		P	5.3
2	☐			494.46		P	7.8
3	☐			463.35		P	7.5
4	☐			477.79		P	8.4
5	☐			544.46		P	5.8
6	☐			467.79		P	3.6
7	☐			482.24		P	14.6
8	☐			457.79		P	3.7

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	769.49	0.0002	P	7.2
2	☐	1.000	1.051	1816.84	0.0004	P	8.0
3	☐	50.000	51.185	55594.31	0.0120	P	1.3
4	☐	125.000	129.162	138380.62	0.0299	P	1.1
5	☐	250.000	257.222	275779.76	0.0594	P	1.4
6	☐	500.000	501.829	549609.28	0.1157	P	1.6
7	☐	1000.000	996.701	1080046.02	0.2296	P	0.1
8	☐			3617.23	0.0008	P	8.4

$$y = 2.3018\text{E-}004 * x + 1.8127\text{E-}004$$

$$R = 1.0000$$

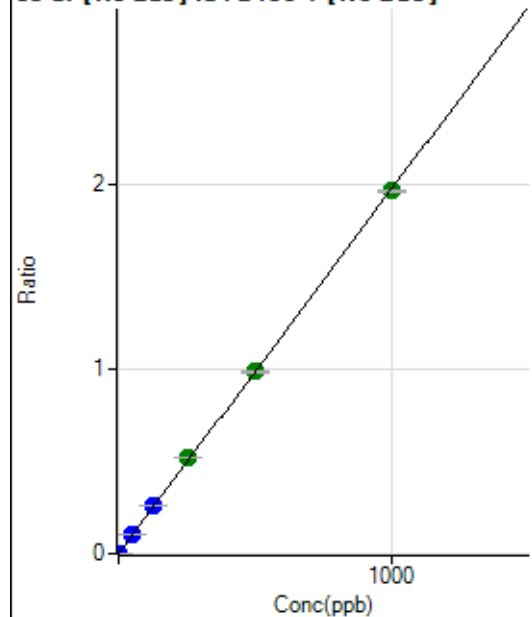
$$DL = 0.1702$$

$$BEC = 0.7875$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	211.12	0.0000	P	34.1
2	☐	1.000	1.005	8725.18	0.0020	P	4.2
3	☐	50.000	52.798	483312.29	0.1040	P	0.3
4	☐	125.000	130.613	1189954.65	0.2572	P	0.9
5	☐	250.000	261.870	2394702.42	0.5156	A	0.4
6	☐	500.000	500.966	4686371.59	0.9864	A	1.0
7	☐	1000.000	995.708	9221981.11	1.9605	A	0.8
8	☐			25821.72	0.0056	P	3.2

$$y = 0.0020 * x + 4.9762E-005$$

$$R = 0.9999$$

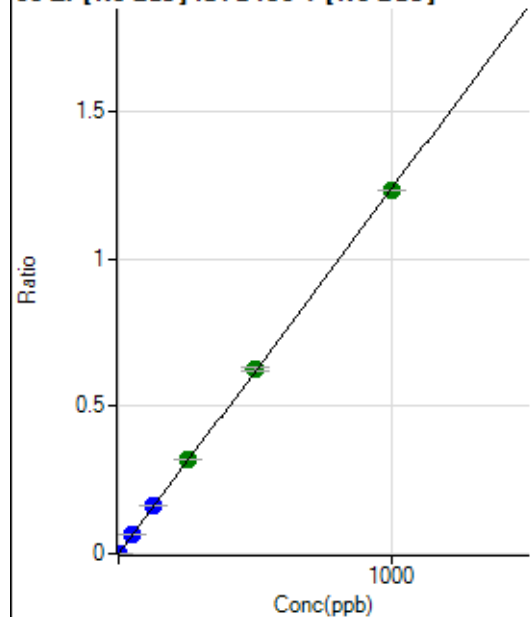
$$DL = 0.02588$$

$$BEC = 0.02527$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	144.45	0.0000	P	24.3
2	☐	1.000	0.952	5206.67	0.0012	P	2.0
3	☐	50.000	52.304	300641.28	0.0647	P	0.8
4	☐	125.000	131.290	750999.95	0.1623	P	1.1
5	☐	250.000	258.589	1484779.45	0.3197	A	0.5
6	☐	500.000	504.594	2963487.70	0.6238	A	1.7
7	☐	1000.000	994.654	5784191.80	1.2296	A	0.1
8	☐			5581.81	0.0012	P	3.4

$$y = 0.0012 * x + 3.4077E-005$$

$$R = 0.9999$$

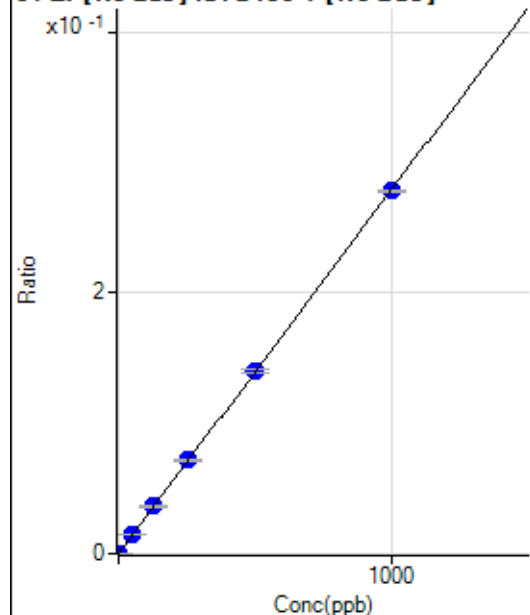
$$DL = 0.02008$$

$$BEC = 0.02757$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	58.33	0.0000	P	37.9
2	☐	1.000	0.954	1202.86	0.0003	P	13.9
3	☐	50.000	52.044	67600.04	0.0145	P	0.9
4	☐	125.000	129.674	167584.89	0.0362	P	1.4
5	☐	250.000	257.007	333354.75	0.0718	P	0.9
6	☐	500.000	501.429	665228.93	0.1400	P	2.2
7	☐	1000.000	996.847	1309539.04	0.2784	P	0.3
8	☐			1200.08	0.0003	P	13.5

$$y = 2.7926\text{E-}004 * x + 1.3737\text{E-}005$$

$$R = 1.0000$$

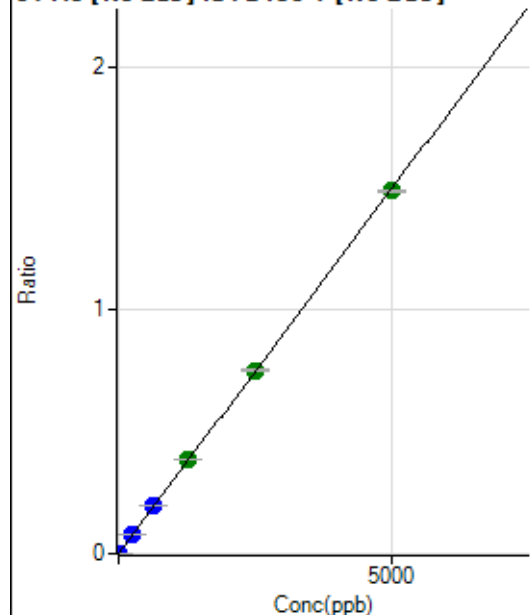
$$DL = 0.05598$$

$$BEC = 0.04919$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	69.45	0.0000	P	66.3
2	☐	5.000	5.250	6826.87	0.0016	P	7.1
3	☐	250.000	263.979	367820.46	0.0791	P	1.1
4	☐	625.000	654.731	908073.86	0.1963	P	0.7
5	☐	1250.000	1298.993	1808350.50	0.3894	A	1.0
6	☐	2500.000	2516.898	3584230.81	0.7545	A	1.8
7	☐	5000.000	4974.887	7015010.66	1.4913	A	0.6
8	☐			9759.28	0.0021	P	3.1

$$y = 2.9977\text{E-}004 * x + 1.6404\text{E-}005$$

$$R = 0.9999$$

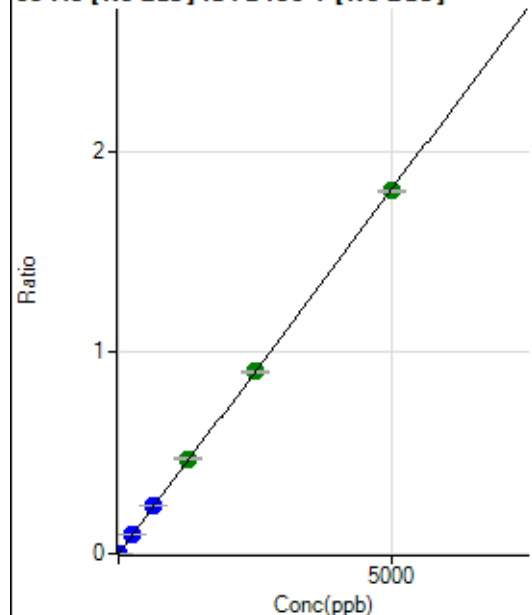
$$DL = 0.1088$$

$$BEC = 0.05472$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	16.67	0.0000	P	49.1
2	☐	5.000	5.337	8305.46	0.0019	P	6.2
3	☐	250.000	268.205	450858.72	0.0970	P	0.7
4	☐	625.000	659.775	1104110.44	0.2387	P	0.8
5	☐	1250.000	1302.528	2187789.78	0.4712	A	2.1
6	☐	2500.000	2499.019	4294689.42	0.9040	A	0.8
7	☐	5000.000	4982.101	8477213.82	1.8021	A	0.5
8	☐			13253.90	0.0029	P	3.3

$$y = 3.6172\text{E-}004 * x + 3.9114\text{E-}006$$

$$R = 0.9999$$

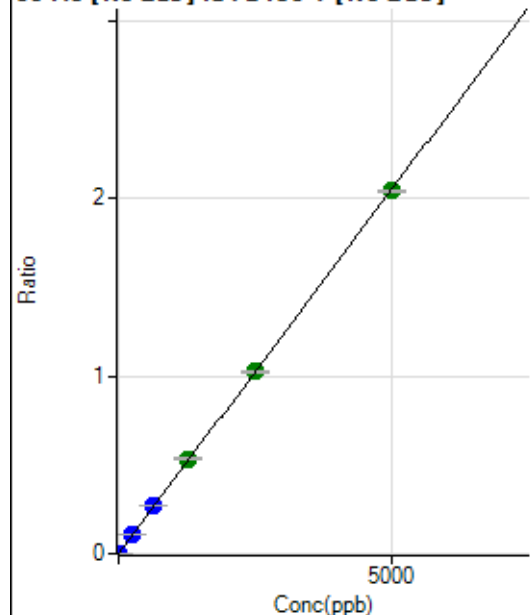
$$DL = 0.01592$$

$$BEC = 0.01081$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	75.00	0.0000	P	59.2
2	☐	5.000	5.122	9097.70	0.0021	P	2.8
3	☐	250.000	261.034	497417.64	0.1070	P	0.6
4	☐	625.000	651.863	1236494.05	0.2673	P	0.4
5	☐	1250.000	1298.854	2472877.03	0.5325	A	1.6
6	☐	2500.000	2500.050	4869443.04	1.0250	A	1.7
7	☐	5000.000	4983.852	9611695.53	2.0433	A	0.7
8	☐			15333.88	0.0033	P	2.0

$$y = 4.0999\text{E-}004 * x + 1.7729\text{E-}005$$

$$R = 0.9999$$

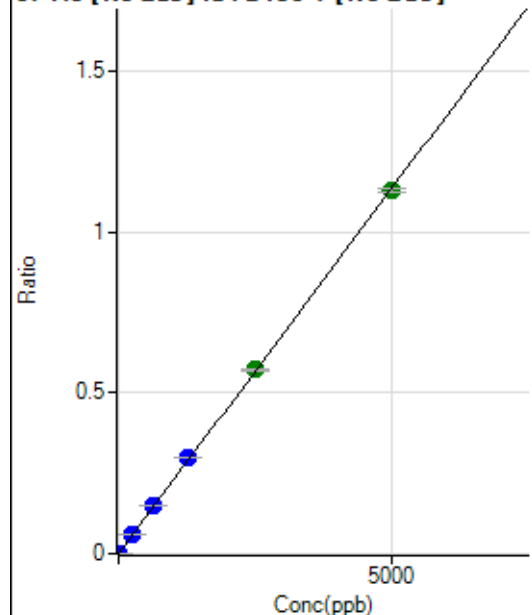
$$DL = 0.07674$$

$$BEC = 0.04324$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	11.11	0.0000	P	42.2
2	☐	5.000	5.178	5067.74	0.0012	P	2.7
3	☐	250.000	263.634	278401.62	0.0599	P	0.3
4	☐	625.000	654.110	687638.56	0.1486	P	0.6
5	☐	1250.000	1308.987	1381304.98	0.2974	P	0.6
6	☐	2500.000	2520.765	2721382.07	0.5728	A	1.1
7	☐	5000.000	4970.550	5312827.59	1.1295	A	1.0
8	☐			8430.62	0.0018	P	5.9

$$y = 2.2723\text{E-}004 * x + 2.6088\text{E-}006$$

$$R = 0.9999$$

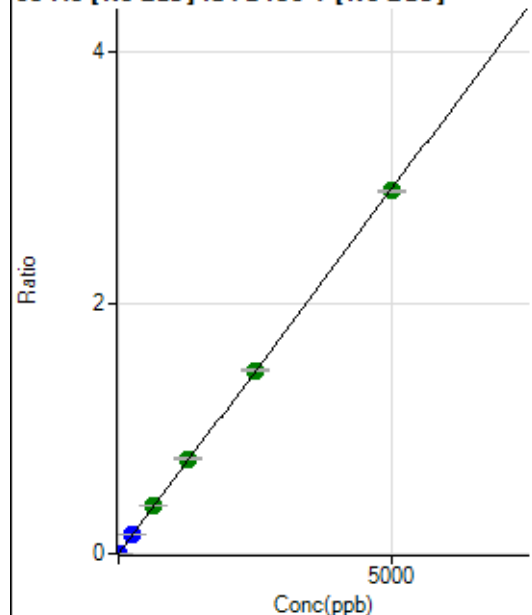
$$DL = 0.01453$$

$$BEC = 0.01148$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	11.11	0.0000	P	86.6
2	☐	5.000	5.265	13173.24	0.0031	P	2.2
3	☐	250.000	263.827	713407.10	0.1535	P	0.3
4	☐	625.000	655.623	1764900.71	0.3815	A	1.0
5	☐	1250.000	1300.840	3515169.91	0.7569	A	1.0
6	☐	2500.000	2514.325	6950730.45	1.4630	A	1.0
7	☐	5000.000	4975.608	13618788.84	2.8952	A	0.3
8	☐			21664.48	0.0047	P	1.8

$$y = 5.8188\text{E-}004 * x + 2.6327\text{E-}006$$

$$R = 0.9999$$

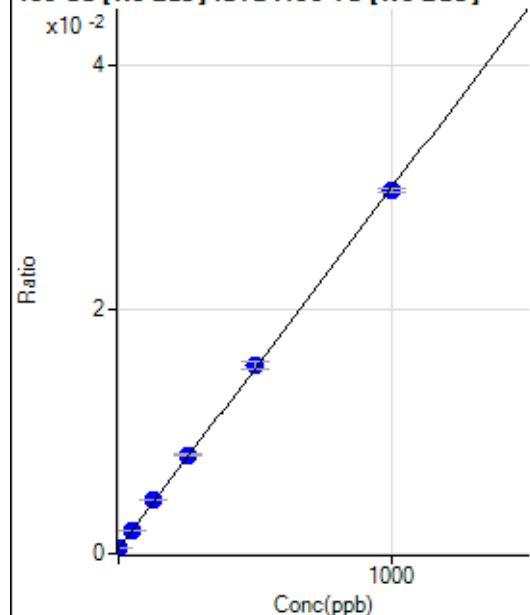
$$DL = 0.01176$$

$$BEC = 0.004524$$

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	1097.29	0.0004	P	7.0
2	☐	1.000	0.551	1155.63	0.0004	P	3.2
3	☐	50.000	51.688	5648.54	0.0019	P	2.8
4	☐	125.000	135.033	12778.46	0.0044	P	1.7
5	☐	250.000	258.749	23565.11	0.0081	P	2.1
6	☐	500.000	507.951	46124.89	0.0154	P	4.2
7	☐	1000.000	992.499	89397.47	0.0297	P	1.1
8	☐			1197.31	0.0004	P	17.3

$$y = 2.9513\text{E-}005 * x + 4.1485\text{E-}004$$

$$R = 0.9999$$

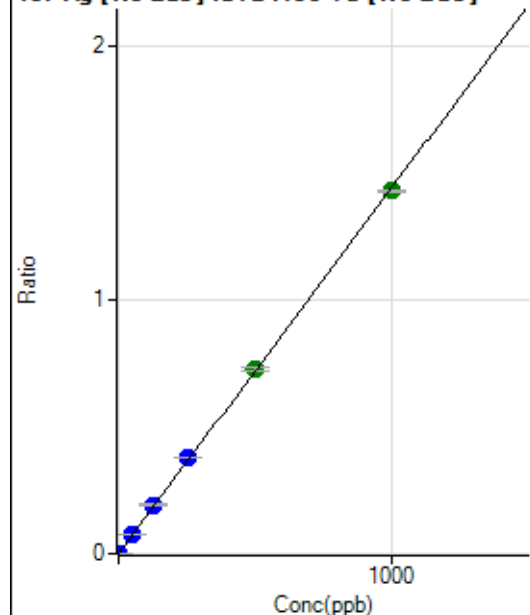
$$DL = 2.954$$

$$BEC = 14.06$$

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	27.78	0.0000	P	34.8
2	☐	1.000	1.017	3956.24	0.0015	P	9.8
3	☐	50.000	54.126	226898.36	0.0779	P	0.1
4	☐	125.000	133.802	559483.14	0.1927	P	2.2
5	☐	250.000	263.950	1112498.04	0.3801	P	0.5
6	☐	500.000	505.756	2180975.72	0.7283	A	2.3
7	☐	1000.000	992.328	4300090.16	1.4289	A	0.8
8	☐			4009.06	0.0014	P	1.6

$$y = 0.0014 * x + 1.0510\text{E-}005$$

$$R = 0.9999$$

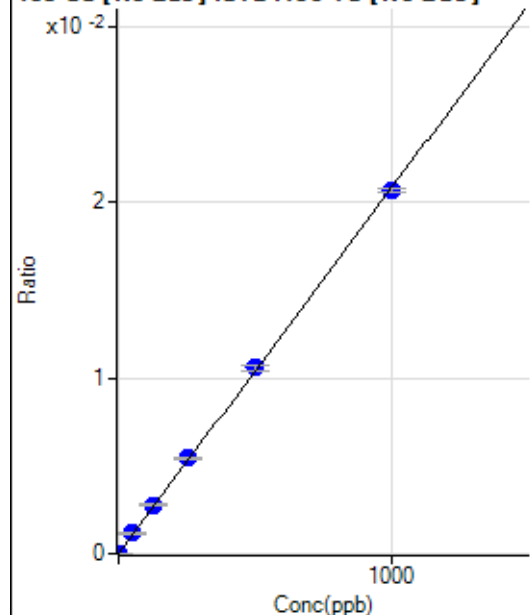
$$DL = 0.007616$$

$$BEC = 0.007299$$

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	8.34	0.0000	P	86.4
2	☐	1.000	1.168	73.61	0.0000	P	22.2
3	☐	50.000	56.260	3412.97	0.0012	P	5.5
4	☐	125.000	132.758	8021.86	0.0028	P	3.3
5	☐	250.000	261.125	15898.19	0.0054	P	1.7
6	☐	500.000	507.687	31616.78	0.0106	P	2.3
7	☐	1000.000	992.093	62076.17	0.0206	P	0.9
8	☐			80.56	0.0000	P	32.8

$$y = 2.0789\text{E-}005 * x + 3.1495\text{E-}006$$

$$R = 0.9999$$

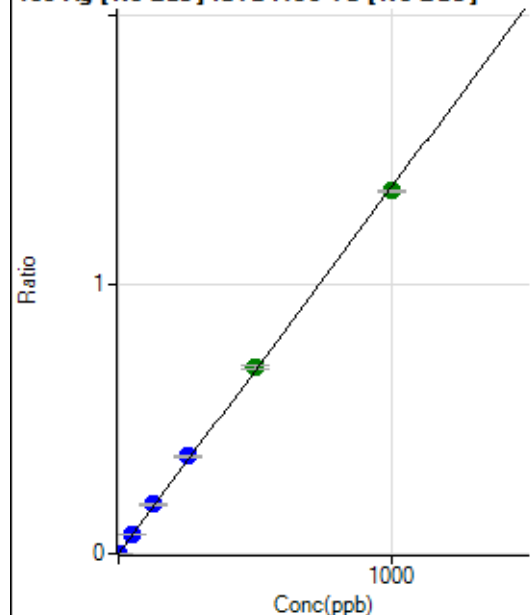
$$DL = 0.3926$$

$$BEC = 0.1515$$

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	19.44	0.0000	P	65.3
2	☐	1.000	1.023	3758.95	0.0014	P	0.5
3	☐	50.000	54.291	215479.17	0.0740	P	1.3
4	☐	125.000	134.660	533120.59	0.1836	P	2.4
5	☐	250.000	265.216	1058356.58	0.3616	P	0.6
6	☐	500.000	509.199	2079041.17	0.6942	A	2.1
7	☐	1000.000	990.174	4062498.83	1.3499	A	0.4
8	☐			3942.35	0.0014	P	2.0

$$y = 0.0014 * x + 7.3576\text{E-}006$$

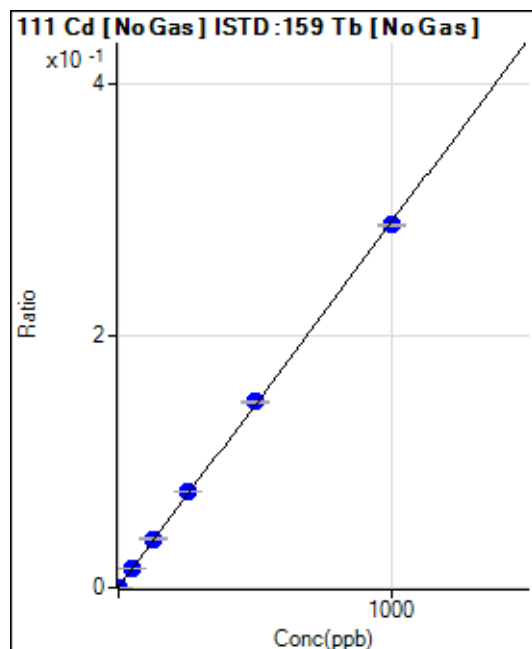
$$R = 0.9998$$

$$DL = 0.01057$$

$$BEC = 0.005397$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	767.83	0.0003	P	6.7
2	☐	1.000	1.019	1569.95	0.0006	P	4.2
3	☐	50.000	53.050	45608.59	0.0157	P	0.5
4	☐	125.000	133.004	112800.50	0.0388	P	1.4
5	☐	250.000	261.028	222321.16	0.0760	P	0.7
6	☐	500.000	507.649	441597.48	0.1474	P	1.5
7	☐	1000.000	992.265	866470.53	0.2879	P	0.8
8	☐			1531.76	0.0005	P	14.0

$$y = 2.8988\text{E-}004 * x + 2.9027\text{E-}004$$

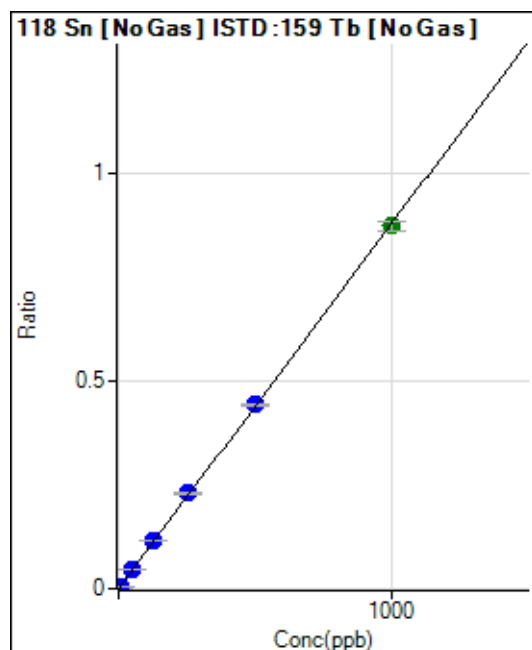
$$R = 0.9999$$

$$DL = 0.2006$$

$$BEC = 1.001$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	355.57	0.0001	P	8.2
2	☐	5.000	5.057	12278.05	0.0046	P	3.2
3	☐	50.000	52.512	134789.30	0.0463	P	0.3
4	☐	125.000	130.870	334507.38	0.1152	P	2.3
5	☐	250.000	261.213	672665.15	0.2298	P	0.9
6	☐	500.000	503.919	1327460.24	0.4432	P	1.5
7	☐	1000.000	994.377	2631607.41	0.8744	A	2.6
8	☐			4161.86	0.0014	P	5.0

$$y = 8.7926\text{E-}004 * x + 1.3443\text{E-}004$$

$$R = 0.9999$$

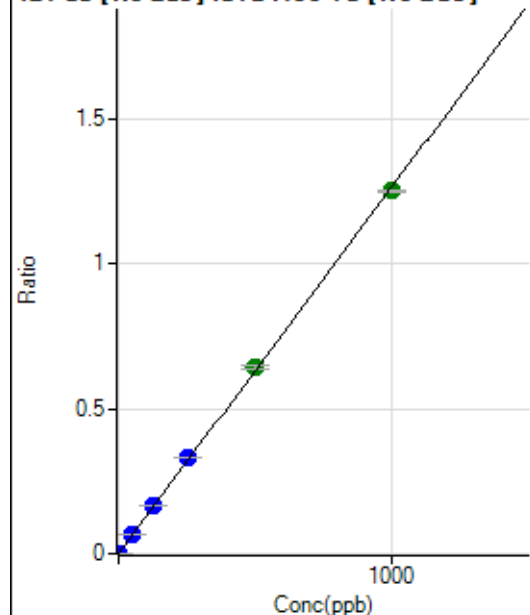
$$DL = 0.03778$$

$$BEC = 0.1529$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	11.11	0.0000	P	42.5
2	☐	2.000	1.983	6721.27	0.0025	P	4.6
3	☐	50.000	52.803	194038.15	0.0667	P	0.9
4	☐	125.000	132.916	487260.77	0.1678	P	1.1
5	☐	250.000	262.062	968295.95	0.3308	P	0.7
6	☐	500.000	510.153	1928778.78	0.6440	A	1.6
7	☐	1000.000	990.778	3763884.07	1.2507	A	0.8
8	☐			5626.29	0.0019	P	5.8

$$y = 0.0013 * x + 4.1932E-006$$

$$R = 0.9998$$

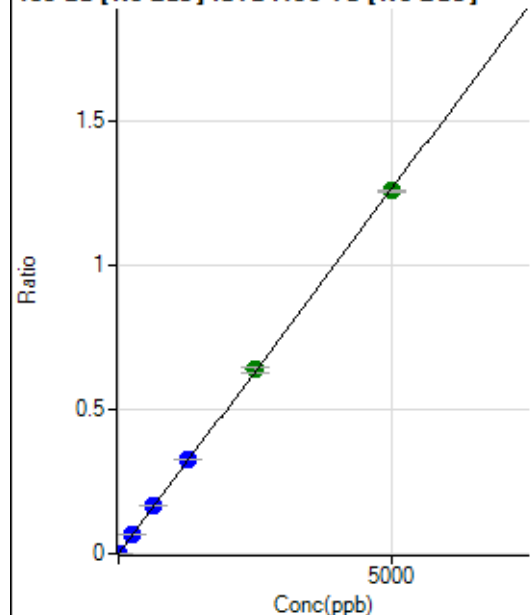
$$DL = 0.004239$$

$$BEC = 0.003322$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	69.45	0.0000	P	7.9
2	☐	10.000	10.049	6888.05	0.0026	P	4.2
3	☐	250.000	262.051	193128.84	0.0664	P	1.1
4	☐	625.000	652.670	479754.48	0.1652	P	1.7
5	☐	1250.000	1294.208	958833.95	0.3276	P	0.8
6	☐	2500.000	2518.839	1909087.74	0.6375	A	3.0
7	☐	5000.000	4975.467	3789731.34	1.2593	A	0.6
8	☐			9603.68	0.0033	P	1.4

$$y = 2.5310E-004 * x + 2.6276E-005$$

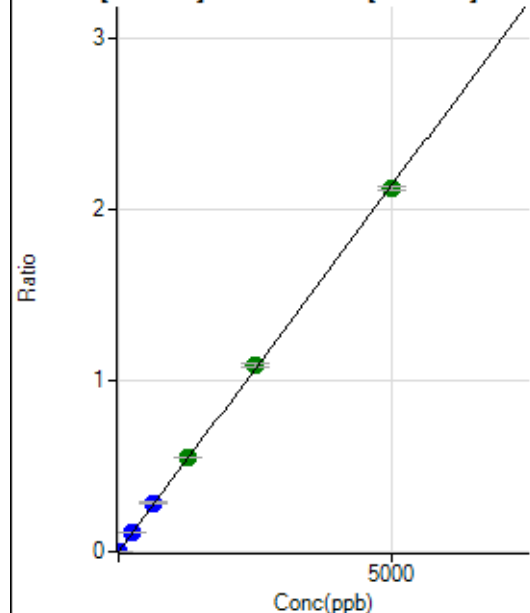
$$R = 0.9999$$

$$DL = 0.0245$$

$$BEC = 0.1038$$

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	66.67	0.0000	P	1.0
2	☐	10.000	10.410	11994.51	0.0045	P	4.7
3	☐	250.000	265.184	330040.98	0.1134	P	0.8
4	☐	625.000	664.270	824630.93	0.2840	P	1.8
5	☐	1250.000	1293.935	1619065.28	0.5532	A	0.9
6	☐	2500.000	2552.437	3267760.60	1.0911	A	2.0
7	☐	5000.000	4957.129	6377131.22	2.1191	A	1.0
8	☐			16671.74	0.0057	P	2.7

$$y = 4.2748E-004 * x + 2.5215E-005$$

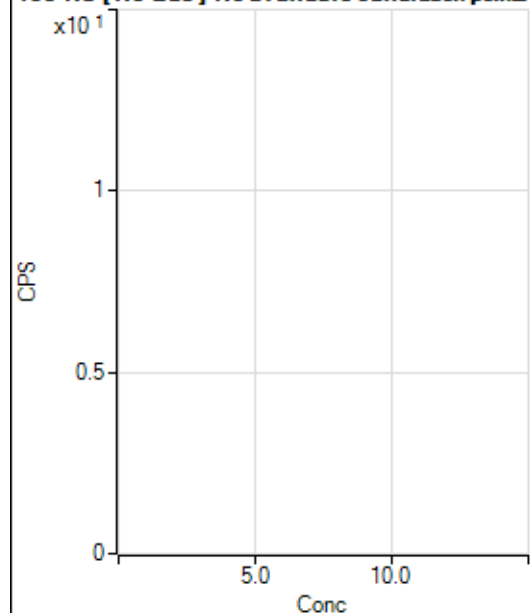
$$R = 0.9999$$

$$DL = 0.001684$$

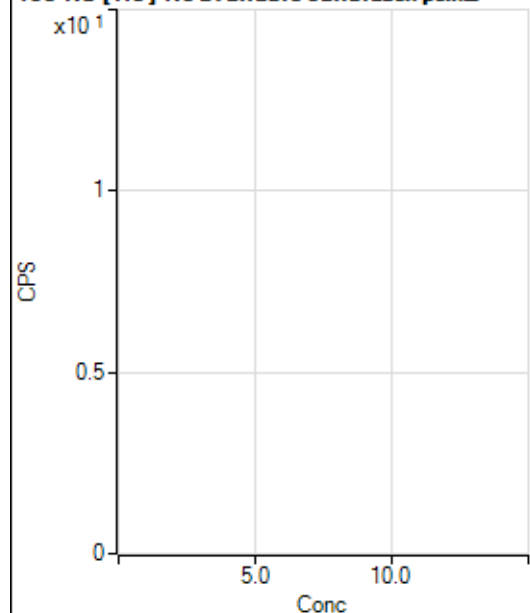
$$BEC = 0.05898$$

Weight: <None>

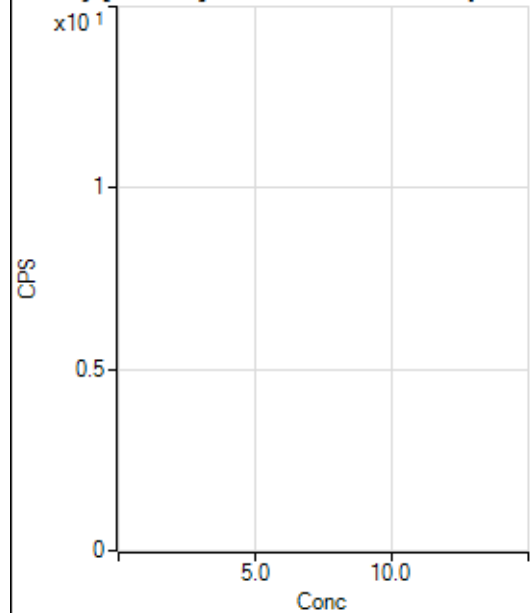
Min Conc: 0

150 Nd [No Gas] No available calibration points

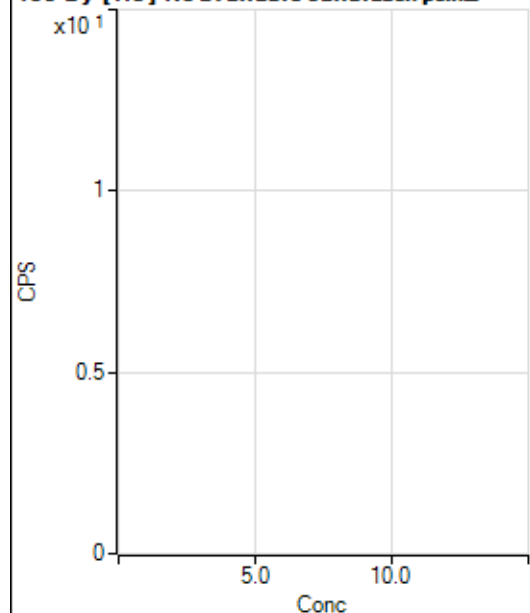
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2.22		P	173.
2	☐			2.22		P	173.
3	☐			4.45		P	86.6
4	☐			33.33		P	34.6
5	☐			33.33		P	69.3
6	☐			57.78		P	46.6
7	☐			137.78		P	12.2
8	☐			37.78		P	10.2

150 Nd [He] No available calibration points

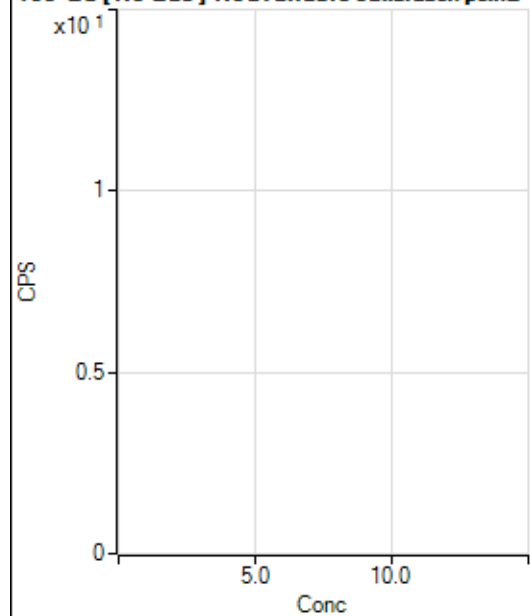
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1.11		P	173.
2	☐			0.00		P	
3	☐			0.00		P	
4	☐			2.22		P	86.6
5	☐			4.45		P	86.6
6	☐			7.78		P	49.5
7	☐			8.89		P	57.3
8	☐			15.56		P	61.9

156 Dy [No Gas] No available calibration points

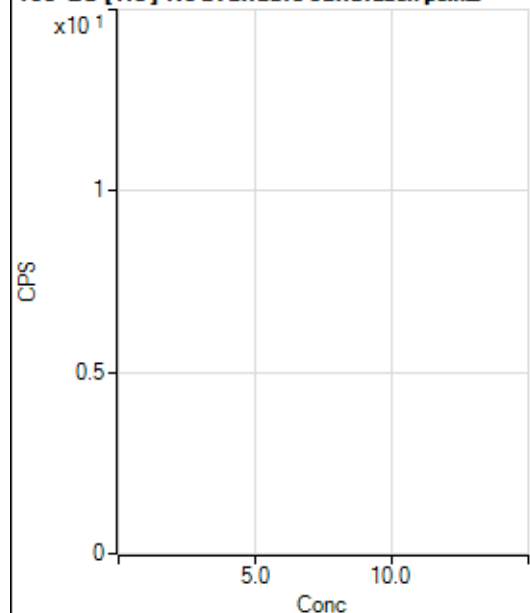
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			11.11		P	43.3
2	☐			5.55		P	86.6
3	☐			5.55		P	86.6
4	☐			11.11		P	43.3
5	☐			11.11		P	86.6
6	☐			36.11		P	48.0
7	☐			100.00		P	38.2
8	☐			202.79		P	9.5

156 Dy [He] No available calibration points

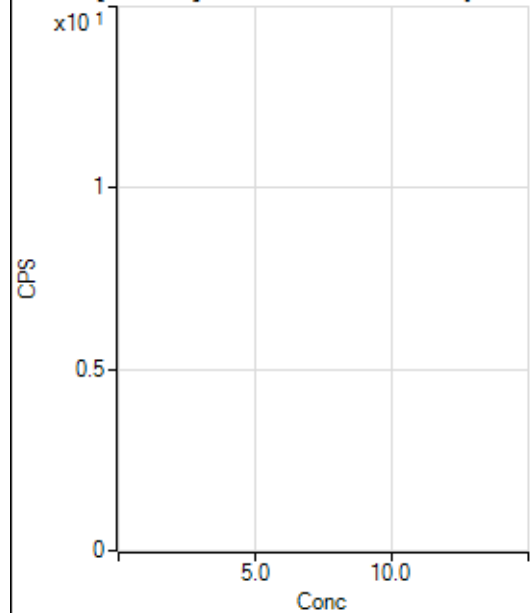
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			0.00		P	
2	☐			2.22		P	86.6
3	☐			4.44		P	43.4
4	☐			10.00		P	57.8
5	☐			7.78		P	99.0
6	☐			12.22		P	78.7
7	☐			42.22		P	4.6
8	☐			93.33		P	7.1

160 Gd [No Gas] Noavailable calibration poin_

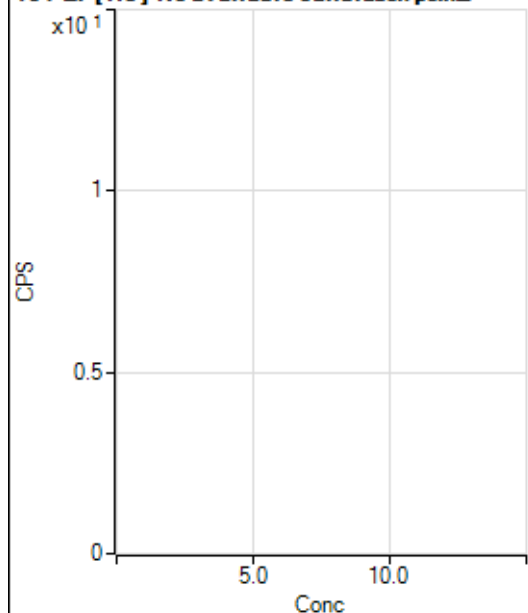
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			38.89		P	32.7
2	☐			33.33		P	66.1
3	☐			27.78		P	62.5
4	☐			44.45		P	10.8
5	☐			41.67		P	60.0
6	☐			69.45		P	36.7
7	☐			69.45		P	36.7
8	☐			208.34		P	32.7

160 Gd [He] No available calibration points

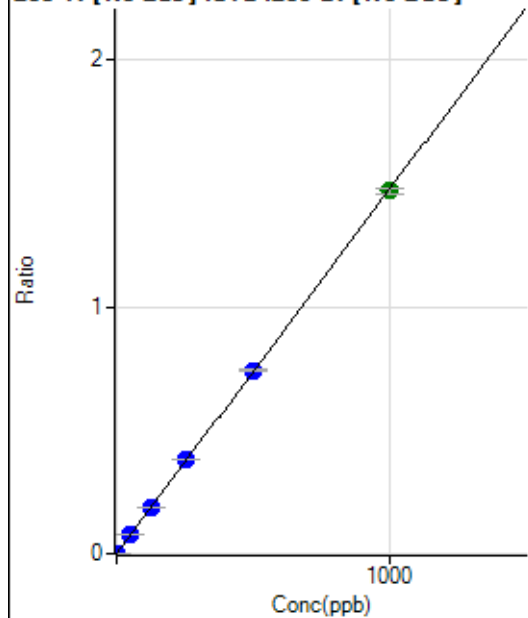
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			10.00		P	115.
2	☐			6.67		P	100.
3	☐			7.78		P	107.
4	☐			6.67		P	100.
5	☐			17.78		P	10.8
6	☐			23.33		P	51.5
7	☐			37.78		P	40.8
8	☐			115.56		P	7.3

164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			11.11		P	86.6
2	☐			19.44		P	65.5
3	☐			27.78		P	96.4
4	☐			5.55		P	86.6
5	☐			16.67		P	50.0
6	☐			16.67		P	50.0
7	☐			16.67		P	50.0
8	☐			41.67		P	40.0

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			12.22		P	41.7
2	☐			4.44		P	43.4
3	☐			3.33		P	100.
4	☐			3.33		P	100.
5	☐			5.56		P	34.7
6	☐			10.00		P	33.3
7	☐			8.89		P	57.3
8	☐			22.22		P	22.9

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	41.67	0.0000	P	1.3
2	☐	1.000	0.880	2064.11	0.0013	P	4.1
3	☐	50.000	51.361	128702.76	0.0758	P	1.2
4	☐	125.000	126.722	319097.83	0.1869	P	1.7
5	☐	250.000	259.254	645780.93	0.3824	P	0.7
6	☐	500.000	503.044	1286340.09	0.7419	P	0.4
7	☐	1000.000	995.881	2545929.68	1.4688	A	1.3
8	☐			3072.68	0.0019	P	6.0

$$y = 0.0015 * x + 2.6744E-005$$

$$R = 0.9999$$

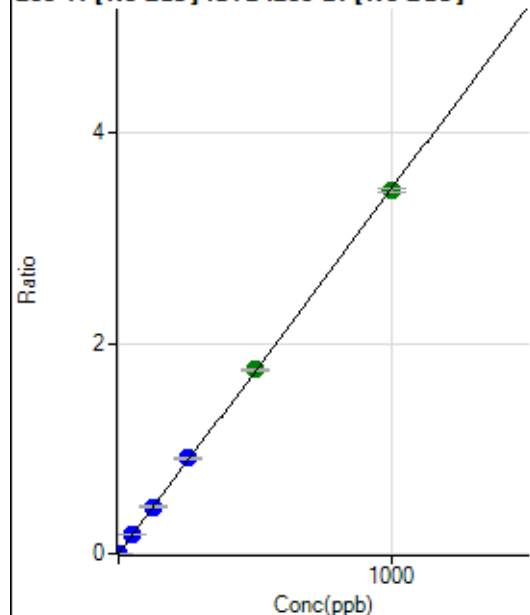
$$DL = 0.0006998$$

$$BEC = 0.01813$$

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	94.45	0.0001	P	38.5
2	☐	1.000	0.982	5401.28	0.0035	P	4.5
3	☐	50.000	51.811	305326.99	0.1798	P	1.1
4	☐	125.000	128.809	762837.03	0.4468	P	0.6
5	☐	250.000	261.220	1530224.69	0.9061	P	1.0
6	☐	500.000	504.612	3034638.93	1.7503	A	0.7
7	☐	1000.000	994.322	5978242.15	3.4489	A	1.0
8	☐			7141.05	0.0044	P	5.4

$$y = 0.0035 * x + 6.0414E-005$$

$$R = 0.9999$$

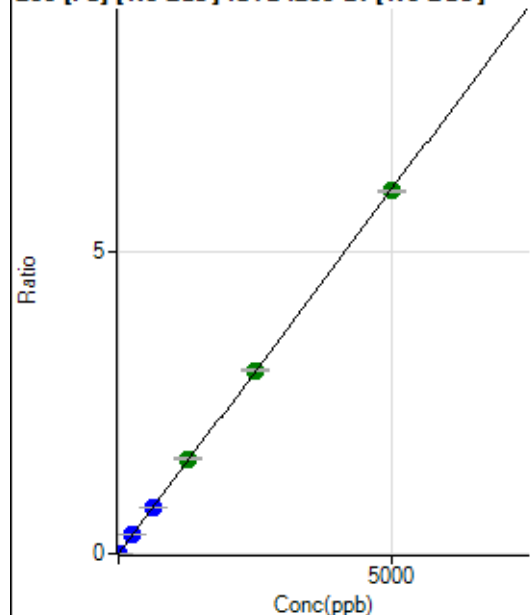
$$DL = 0.02014$$

$$BEC = 0.01742$$

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	253.71	0.0002	P	21.8
2	☐	1.000	0.942	2026.12	0.0013	P	5.7
3	☐	250.000	252.944	519496.32	0.3059	P	0.5
4	☐	625.000	624.407	1288504.13	0.7548	P	1.3
5	☐	1250.000	1301.486	2656506.63	1.5731	A	2.0
6	☐	2500.000	2512.720	5265102.78	3.0369	A	0.9
7	☐	5000.000	4980.696	10435652.09	6.0196	A	0.5
8	☐			17476.91	0.0108	P	2.4

$$y = 0.0012 * x + 1.6252E-004$$

$$R = 0.9999$$

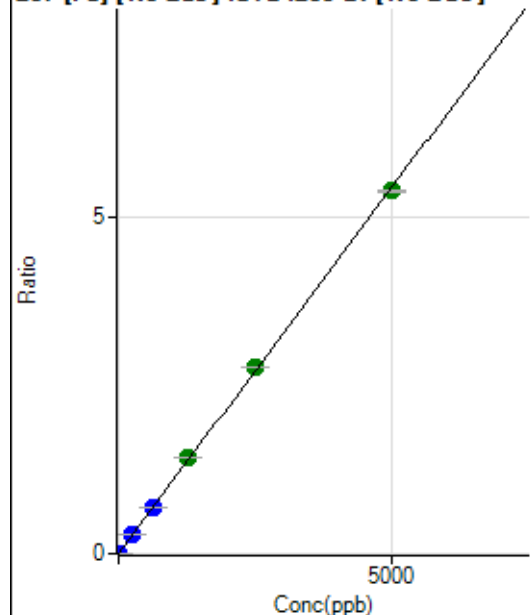
$$DL = 0.08784$$

$$BEC = 0.1345$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	174.08	0.0001	P	17.2
2	☐	1.000	0.982	1835.35	0.0012	P	2.8
3	☐	250.000	253.334	467543.46	0.2753	P	0.3
4	☐	625.000	624.298	1157722.83	0.6782	P	1.7
5	☐	1250.000	1311.479	2405883.39	1.4246	A	0.6
6	☐	2500.000	2551.652	4805133.85	2.7716	A	0.8
7	☐	5000.000	4958.725	9337121.27	5.3860	A	0.3
8	☐			16000.81	0.0099	P	3.0

$$y = 0.0011 * x + 1.1167E-004$$

$$R = 0.9998$$

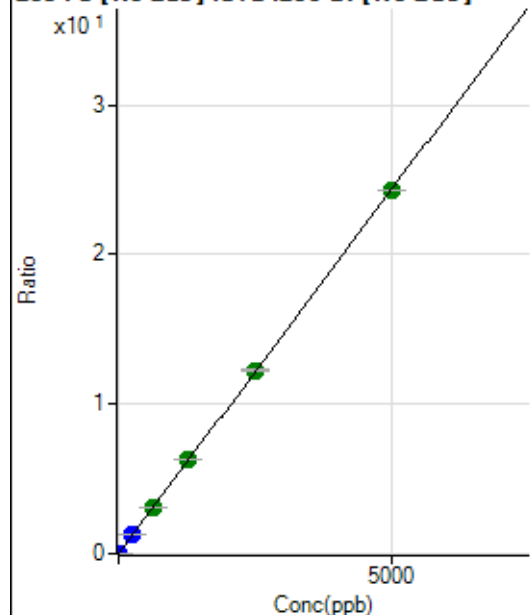
$$DL = 0.05318$$

$$BEC = 0.1028$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	888.92	0.0006	P	6.9
2	☐	1.000	0.972	8260.45	0.0053	P	1.7
3	☐	250.000	254.296	2104358.41	1.2390	P	0.4
4	☐	625.000	632.773	5261423.87	3.0821	A	1.4
5	☐	1250.000	1292.972	10634905.88	6.2972	A	0.8
6	☐	2500.000	2512.295	21212398.45	12.2351	A	0.8
7	☐	5000.000	4981.923	42060743.53	24.2618	A	0.1
8	☐			70478.97	0.0435	P	2.3

$$y = 0.0049 * x + 5.7012E-004$$

$$R = 1.0000$$

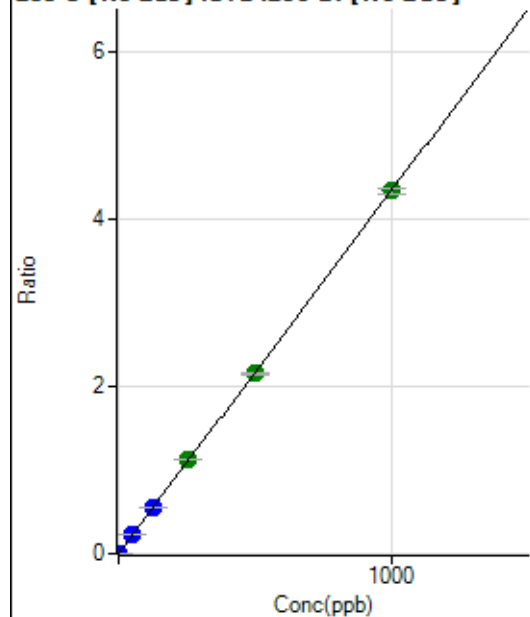
$$DL = 0.02413$$

$$BEC = 0.1171$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2.78	0.0000	P	173.
2	☐	1.000	0.971	6560.21	0.0042	P	2.3
3	☐	50.000	51.419	378559.78	0.2229	P	0.5
4	☐	125.000	126.476	935903.16	0.5482	P	1.1
5	☐	250.000	257.548	1885422.02	1.1164	A	0.3
6	☐	500.000	497.318	3737277.90	2.1557	A	0.9
7	☐	1000.000	999.199	7506545.48	4.3311	A	1.9
8	☐			6090.53	0.0038	P	5.0

$$y = 0.0043 * x + 1.8014E-006$$

$$R = 1.0000$$

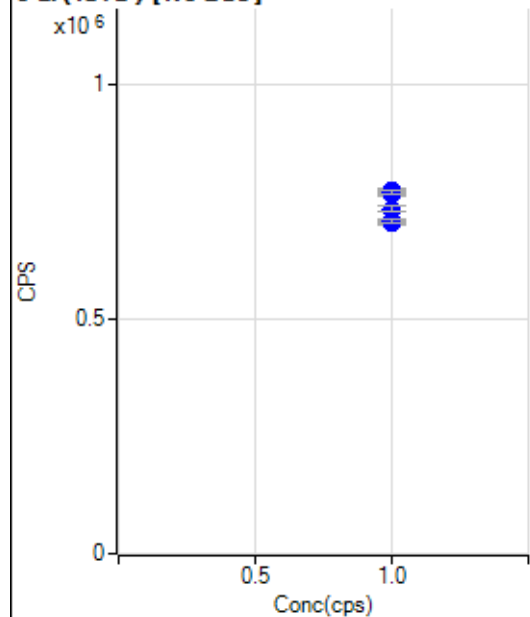
$$DL = 0.002159$$

$$BEC = 0.0004156$$

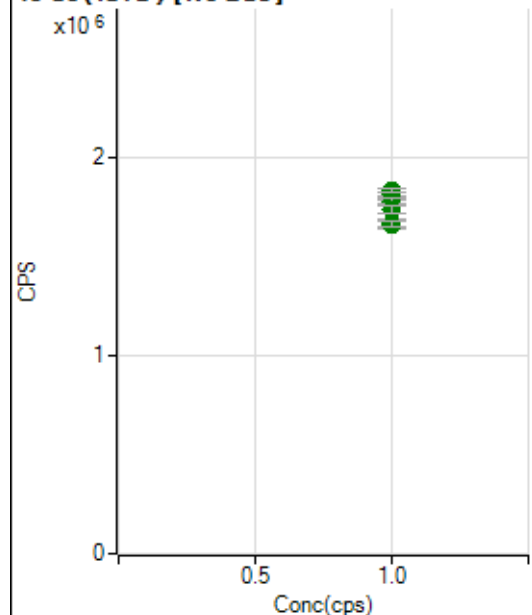
Weight: <None>

Min Conc: 0

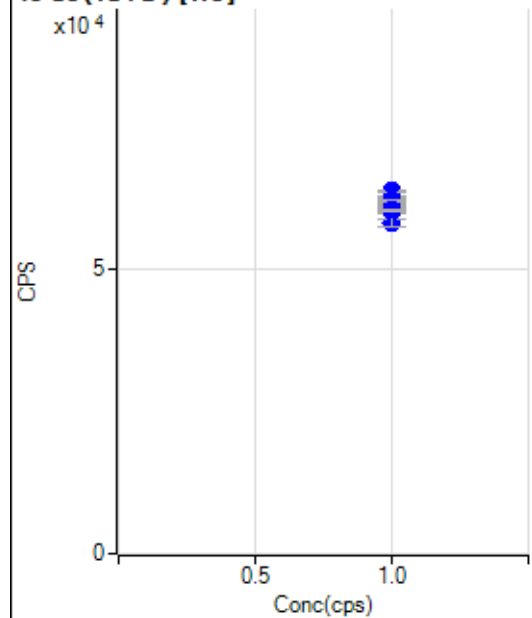
6 Li (ISTD) [No Gas]



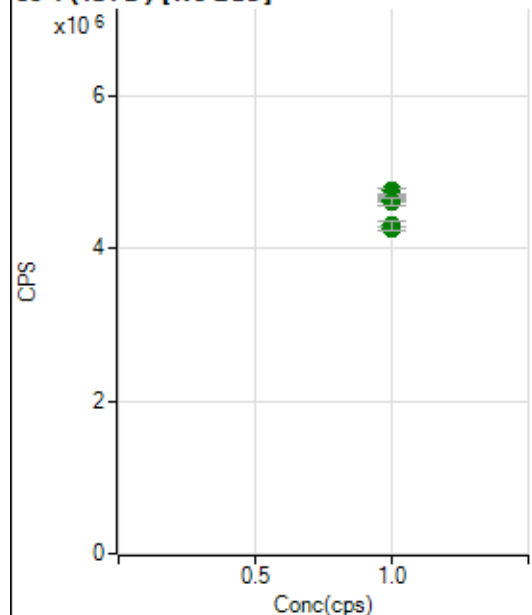
	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		705486.46		P	1.1
2	☐	1.000		708006.39		P	1.3
3	☐	1.000		771889.47		P	0.3
4	☐	1.000		766262.13		P	0.7
5	☐	1.000		765673.47		P	0.8
6	☐	1.000		772947.58		P	1.3
7	☐	1.000		769111.51		P	0.9
8	☐	1.000		735267.03		P	2.0

45 Sc (ISTD) [No Gas]

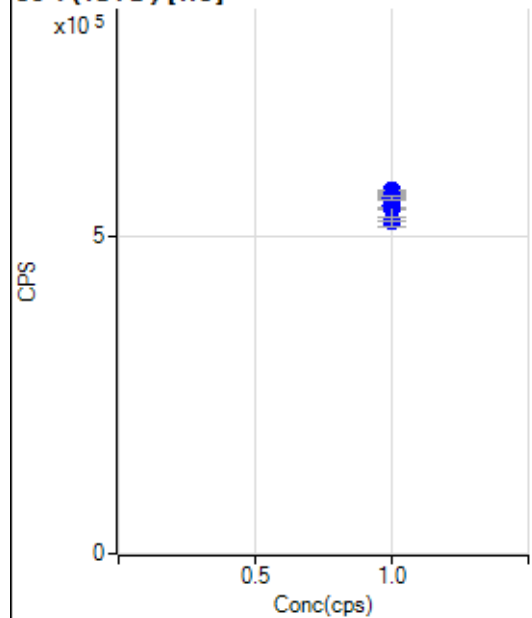
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1663768.95		A	2.5
2	☐	1.000		1659179.37		A	1.6
3	☐	1.000		1812521.03		A	0.9
4	☐	1.000		1795196.81		A	0.9
5	☐	1.000		1810459.85		A	1.8
6	☐	1.000		1828911.16		A	0.9
7	☐	1.000		1778647.58		A	1.2
8	☐	1.000		1737608.91		A	2.1

45 Sc (ISTD) [He]

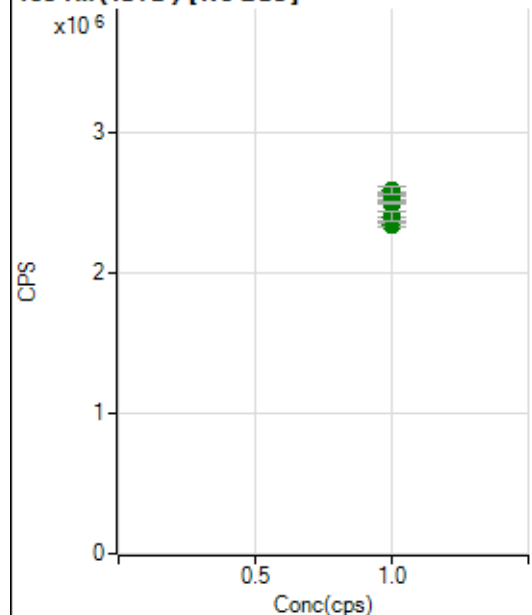
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		58210.79		P	2.3
2	☐	1.000		60268.94		P	1.7
3	☐	1.000		63735.02		P	0.4
4	☐	1.000		62948.21		P	1.3
5	☐	1.000		60171.70		P	8.8
6	☐	1.000		61233.20		P	0.7
7	☐	1.000		62018.61		P	0.4
8	☐	1.000		60416.37		P	0.5

89 Y (ISTD) [No Gas]

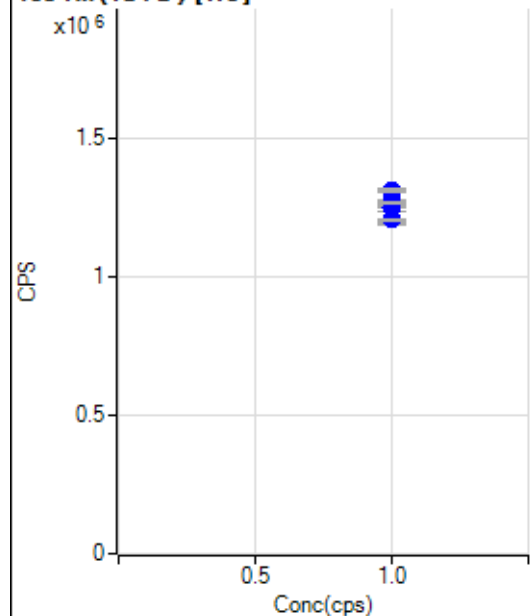
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4246452.99		A	1.1
2	☐	1.000		4298092.89		A	2.6
3	☐	1.000		4647063.02		A	0.5
4	☐	1.000		4626421.77		A	0.8
5	☐	1.000		4644093.96		A	1.1
6	☐	1.000		4751444.96		A	1.7
7	☐	1.000		4703966.01		A	0.5
8	☐	1.000		4606814.24		A	2.6

89 Y (ISTD) [He]

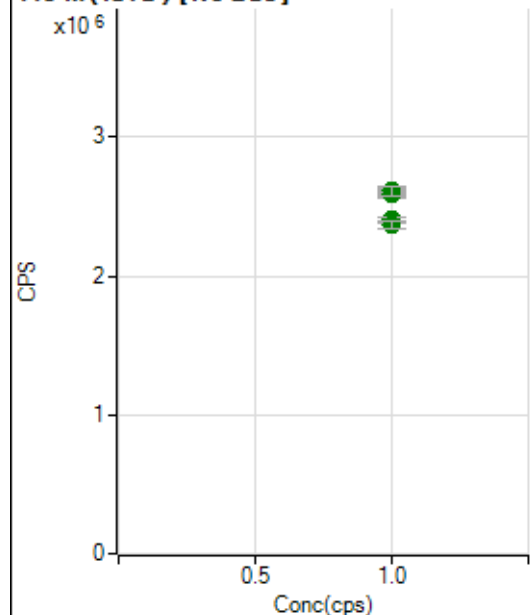
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		523557.01		P	3.0
2	☐	1.000		544385.43		P	0.5
3	☐	1.000		570912.65		P	0.5
4	☐	1.000		571361.63		P	0.7
5	☐	1.000		548157.49		P	8.7
6	☐	1.000		558733.43		P	0.6
7	☐	1.000		564729.90		P	0.9
8	☐	1.000		559024.28		P	1.0

103 Rh (ISTD) [No Gas]

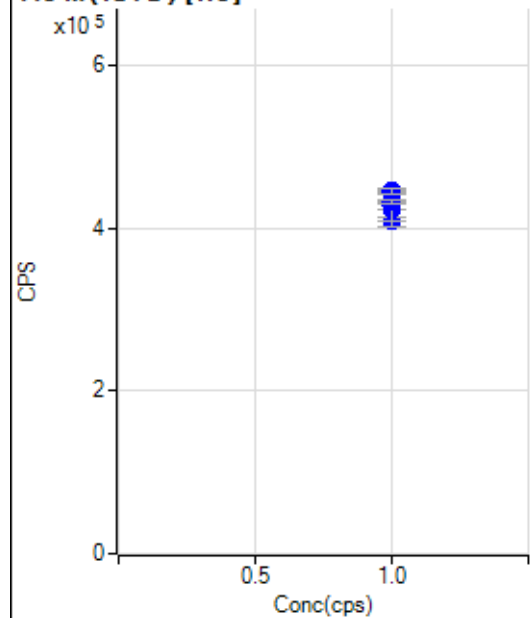
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2340518.35		A	1.0
2	☐	1.000		2371794.54		A	2.1
3	☐	1.000		2567263.68		A	0.8
4	☐	1.000		2561977.55		A	0.8
5	☐	1.000		2512877.51		A	0.6
6	☐	1.000		2581728.64		A	2.2
7	☐	1.000		2495853.90		A	0.4
8	☐	1.000		2397619.95		A	2.9

103 Rh (ISTD) [He]

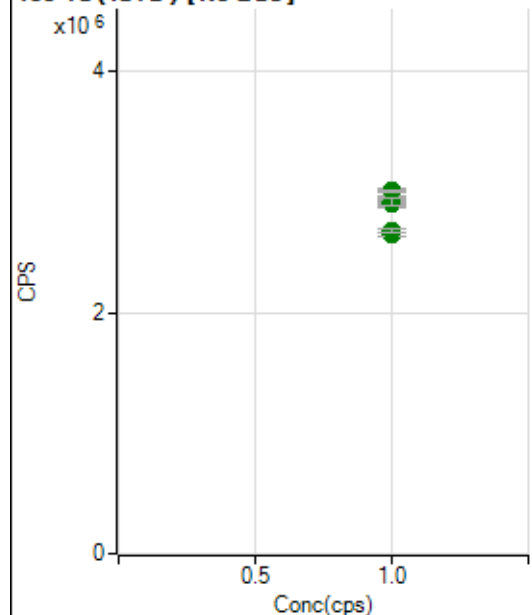
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1209081.54		P	3.8
2	☐	1.000		1252846.49		P	0.7
3	☐	1.000		1307188.09		P	0.4
4	☐	1.000		1309013.02		P	1.0
5	☐	1.000		1252060.23		P	9.0
6	☐	1.000		1270752.36		P	0.4
7	☐	1.000		1267619.44		P	0.4
8	☐	1.000		1204734.50		P	0.5

115 In (ISTD) [No Gas]

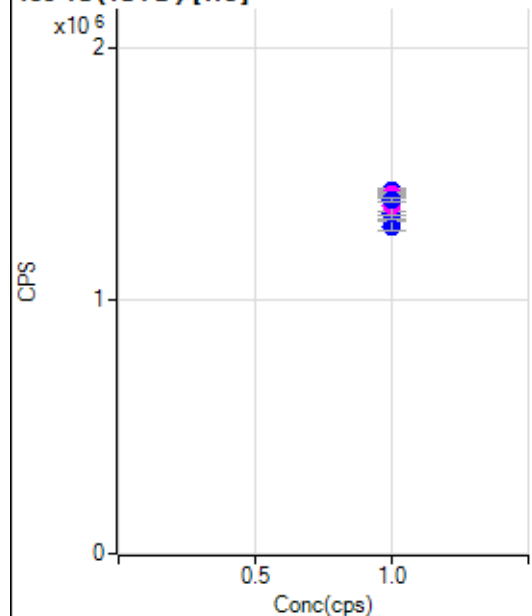
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2403666.68		A	1.4
2	☐	1.000		2368565.46		A	2.3
3	☐	1.000		2591502.29		A	0.9
4	☐	1.000		2589585.70		A	0.7
5	☐	1.000		2584822.94		A	1.6
6	☐	1.000		2612552.29		A	2.0
7	☐	1.000		2597051.71		A	1.8
8	☐	1.000		2613746.51		A	2.9

115 In (ISTD) [He]

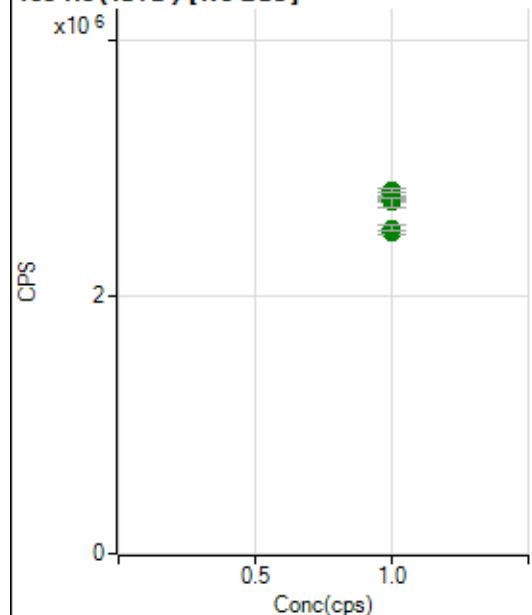
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		409349.20		P	2.9
2	☐	1.000		424267.17		P	0.2
3	☐	1.000		444627.70		P	0.1
4	☐	1.000		444168.79		P	1.0
5	☐	1.000		427954.58		P	8.9
6	☐	1.000		433078.13		P	0.4
7	☐	1.000		433348.40		P	1.3
8	☐	1.000		446530.04		P	1.4

159 Tb (ISTD) [No Gas]

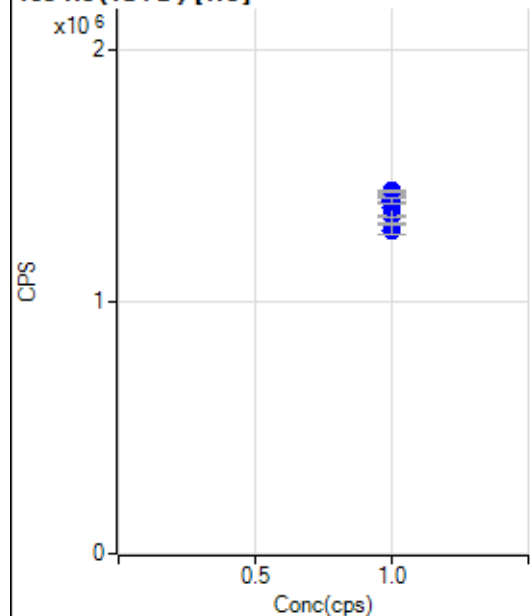
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2644254.13		A	0.9
2	☐	1.000		2680628.14		A	0.8
3	☐	1.000		2910851.73		A	0.6
4	☐	1.000		2904356.59		A	1.8
5	☐	1.000		2927031.55		A	0.5
6	☐	1.000		2995602.53		A	2.0
7	☐	1.000		3009359.68		A	0.2
8	☐	1.000		2916620.69		A	2.3

159 Tb (ISTD) [He]

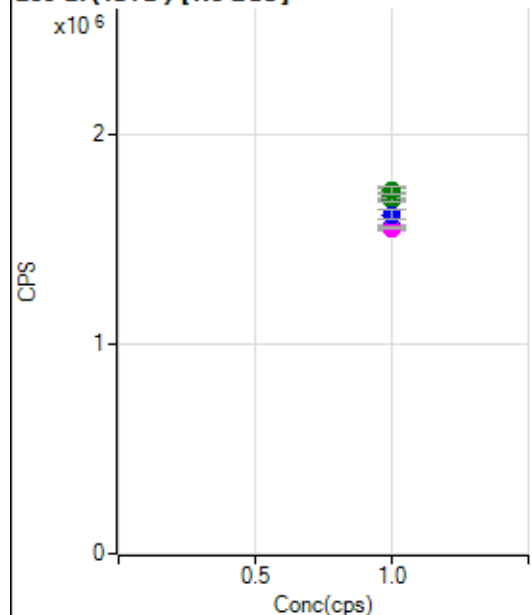
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1294122.43		P	3.0
2	☐	1.000		1343727.82		P	0.6
3	☐	1.000		1425690.02		P	0.5
4	☐	1.000		1432214.61		P	1.1
5	☐	1.000		1377655.43		M	8.3
6	☐	1.000		1414699.36		P	0.6
7	☐	1.000		1422960.67		M	0.7
8	☐	1.000		1396954.91		P	0.8

165 Ho (ISTD) [No Gas]

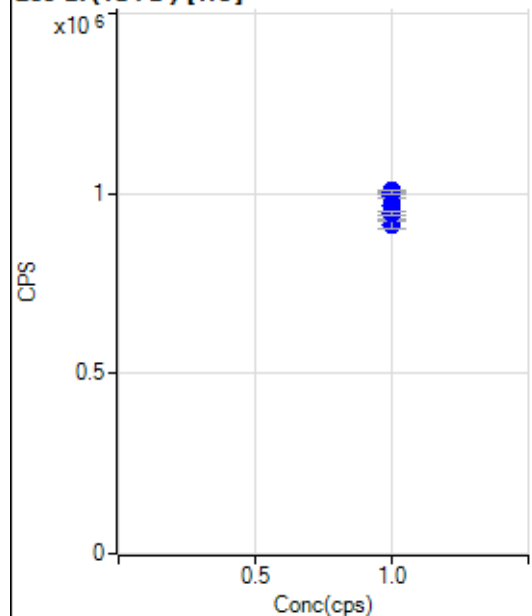
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2494644.89		A	1.3
2	☐	1.000		2533239.92		A	1.3
3	☐	1.000		2758426.97		A	0.7
4	☐	1.000		2747876.86		A	1.0
5	☐	1.000		2760811.32		A	1.3
6	☐	1.000		2789359.72		A	1.2
7	☐	1.000		2821392.10		A	1.2
8	☐	1.000		2730017.42		A	2.6

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1288209.73		P	2.9
2	☐	1.000		1343527.09		P	0.7
3	☐	1.000		1422497.83		P	0.7
4	☐	1.000		1426140.59		P	0.5
5	☐	1.000		1379110.26		P	9.1
6	☐	1.000		1407757.93		P	1.5
7	☐	1.000		1442461.63		P	0.6
8	☐	1.000		1401002.67		P	1.4

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1558297.89		P	1.3
2	☐	1.000		1557660.45		M	0.4
3	☐	1.000		1698504.77		A	0.4
4	☐	1.000		1707298.91		A	1.3
5	☐	1.000		1688906.08		A	1.0
6	☐	1.000		1733813.98		A	1.0
7	☐	1.000		1733639.77		A	2.2
8	☐	1.000		1620570.48		P	2.5

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		914710.77		P	2.9
2	☐	1.000		951604.43		P	0.3
3	☐	1.000		1008103.03		P	0.6
4	☐	1.000		1004883.64		P	0.6
5	☐	1.000		969505.12		P	8.8
6	☐	1.000		994546.38		P	1.2
7	☐	1.000		1004737.01		P	1.1
8	☐	1.000		944690.94		P	1.0

US EPA Tune Check Report

Operator Name Jaswal
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\P8051120MS.b
Acq. Date-Time 2020-05-11 11:13:37
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		3132	31320.61			0.872	5.000
24		26229	262294.07			0.904	5.000
25		3600	35997.49			1.093	5.000
26		4363	43631.03			1.389	5.000
59		22307	223069.70			1.107	5.000
113		3574	35736.74			0.874	5.000
115		11524	115243.63			1.390	5.000
206		3839	38390.38			0.913	5.000
207		3185	31853.75			1.416	5.000
208		7829	78294.68			1.420	5.000
220		0	3.30			25.353	

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

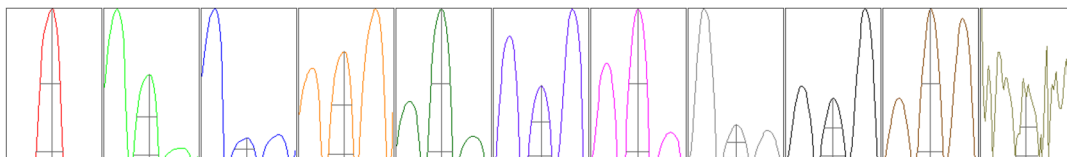
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	3130	3086	3150	3140	3154
24	26360	25808	26347	26291	26341
25	3627	3533	3628	3614	3597
26	4402	4256	4376	4391	4390
59	22437	21877	22423	22321	22476
113	3599	3529	3589	3554	3597
115	11794	11480	11506	11477	11366
206	3836	3780	3855	3855	3868
207	3179	3110	3222	3204	3212
208	7819	7651	7954	7862	7861

US EPA Tune Check Report

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

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	5241.85	8.95	8.90 - 9.10	
24	44321.30	23.95	23.90 - 24.10	
25	5971.30	24.95	24.90 - 25.10	
26	7057.87	25.95	25.90 - 26.10	
59	38266.64	58.95	58.90 - 59.10	
113	6630.96	113.05	112.90 - 113.10	
115	21304.33	115.00	114.90 - 115.10	
206	7000.29	206.05	205.90 - 206.10	
207	5862.61	207.00	206.90 - 207.10	
208	14444.21	208.00	207.90 - 208.10	
220	0.50	219.95	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.64	0.829	0.900	
24	0.65	0.792	0.900	
25	0.64	0.798	0.900	
26	0.65	0.790	0.900	
59	0.61	0.788	0.900	
113	0.57	0.737	0.900	
115	0.57	0.737	0.900	
206	0.58	0.792	0.900	
207	0.57	0.798	0.900	
208	0.57	0.813	0.900	
220	0.52	0.735		

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	10.9 V	Deflect	13.8 V
Extract 2	-235.0 V	Cell Entrance	-30 V	Plate Bias	-50 V
Omega Bias	-115 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	160 V		

QP Parameters

Mass Gain	122	Axis Gain	0.9995	QP Bias	-4.0 V
Mass Offset	123	Axis Offset	-0.05		

Hardware Settings

Torch

Torch H	0.3 mm	Torch V	0.0 mm
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EM

Discriminator	4.0 mV	Analog HV	2169 V	Pulse HV	1203 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		5642	56415.51			1.949	
89		10087	100867.22			2.106	
205		10921	109206.87			2.170	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	5469	5737	5622	5643	5737
89	9726	10283	10153	10171	10101
205	10536	11125	11036	11051	10854

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	10.9 V	Deflect	3.2 V
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US EPA Tune Check Report

Extract 2	-235.0 V	Cell Entrance	-50 V	Plate Bias	-60 V
Omega Bias	-115 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	0.9995	QP Bias	-13.0 V
Mass Offset	123	Axis Offset	-0.05		
Hardware Settings					
Torch					
Torch H	0.3 mm	Torch V	0.0 mm		
EM					
Discriminator	4.0 mV	Analog HV	2169 V	Pulse HV	1203 V