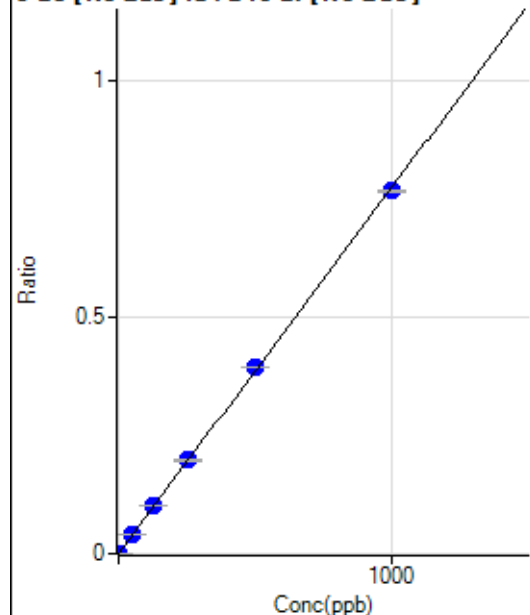


Batch Folder: D:\Agilent\ICPMH\1\DATA\P8042520-MS.b\
Analysis File: P8042520-MS.batch.bin
DA Date-Time: 2020-04-27 00:12:25
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	005CALB.d	S00	2020-04-25 01:34:13
2	006CAL.S.d	S02	2020-04-25 01:37:24
3	008CAL.S.d	S03	2020-04-25 01:43:43
4	009CAL.S.d	S04	2020-04-25 01:46:50
5	010CAL.S.d	S05	2020-04-25 01:49:55
6	011CAL.S.d	S06	2020-04-25 01:52:53
7	012CAL.S.d	S07	2020-04-25 01:55:53
8	013CAL.S.d	S08	2020-04-25 01:58:51

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	8.67	0.0000	P	47.9
2	☐	1.000	0.973	601.23	0.0008	P	3.5
3	☐	50.000	51.163	31734.31	0.0396	P	0.3
4	☐	125.000	130.127	79985.05	0.1006	P	0.4
5	☐	250.000	256.129	157744.56	0.1980	P	1.2
6	☐	500.000	511.882	312906.88	0.3957	P	0.3
7	☐	1000.000	991.828	605501.81	0.7667	P	0.4
8	☐			133.31	0.0002	P	11.5

$$y = 7.7296E-004 * x + 1.1001E-005$$

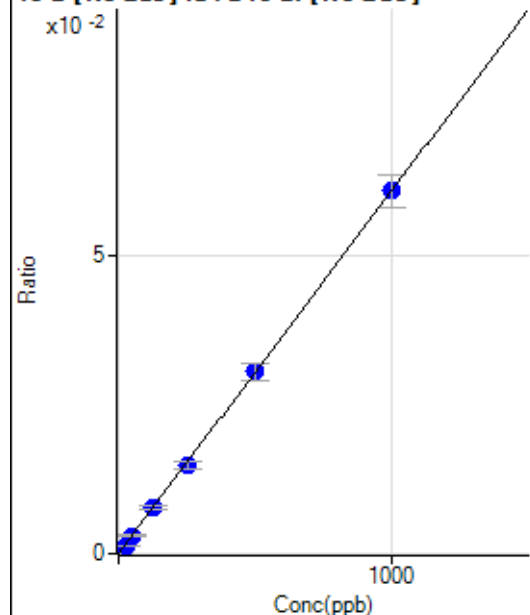
$$R = 0.9999$$

$$DL = 0.02046$$

$$BEC = 0.01423$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	29.99	0.0000	P	29.3
2	☐	25.000	21.112	1039.83	0.0013	P	11.3
3	☐	50.000	49.406	2438.40	0.0030	P	12.7
4	☐	125.000	124.853	6060.07	0.0076	P	8.7
5	☐	250.000	243.452	11815.11	0.0148	P	8.6
6	☐	500.000	503.071	24196.47	0.0306	P	9.6
7	☐	1000.000	1000.247	48020.56	0.0608	P	9.0
8	☐			7523.80	0.0097	P	13.2

$$y = 6.0732E-005 * x + 3.8104E-005$$

$$R = 1.0000$$

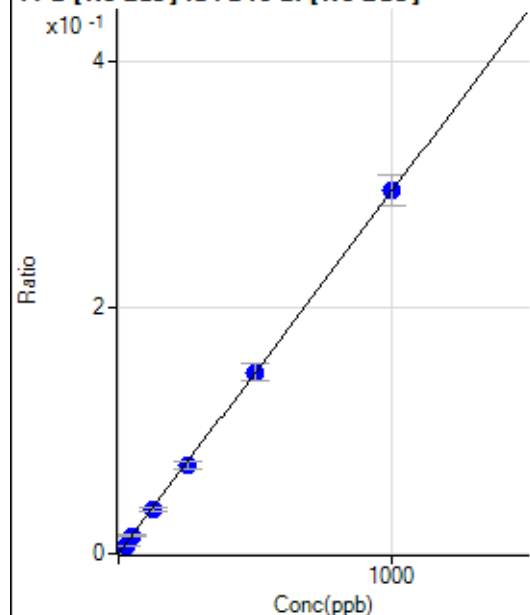
$$DL = 0.5509$$

$$BEC = 0.6274$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	134.64	0.0002	P	5.0
2	☐	25.000	20.367	4842.53	0.0061	P	11.6
3	☐	50.000	49.327	11753.74	0.0146	P	10.2
4	☐	125.000	123.643	28993.48	0.0365	P	9.1
5	☐	250.000	243.193	57029.63	0.0715	P	9.6
6	☐	500.000	500.120	116238.33	0.1470	P	10.0
7	☐	1000.000	1001.961	232447.19	0.2942	P	8.5
8	☐			35618.88	0.0460	P	13.2

$$y = 2.9349\text{E-}004 * x + 1.7094\text{E-}004$$

$$R = 1.0000$$

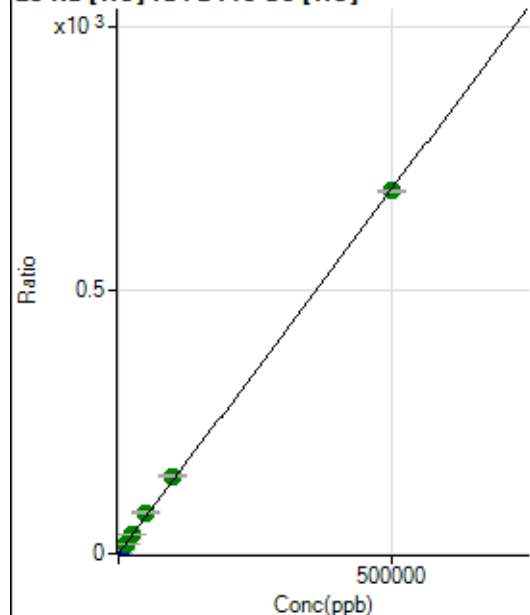
$$DL = 0.08734$$

$$BEC = 0.5824$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	14613.21	0.2176	P	3.1
2	☐	500.000	528.128	66839.47	0.9479	P	1.3
3	☐	5000.000	5523.126	565740.80	7.8544	P	0.9
4	☐	12500.000	13809.565	1403527.02	19.3120	A	0.5
5	☐	25000.000	27368.552	2750629.55	38.0599	A	1.3
6	☐	50000.000	55722.373	5361453.72	77.2644	A	4.4
7	☐	100000.00	106260.28	10337205.09	147.1426	A	1.3
8	☐	500000.00	498019.28	49004985.12	688.8238	A	0.7

$$y = 0.0014 * x + 0.2176$$

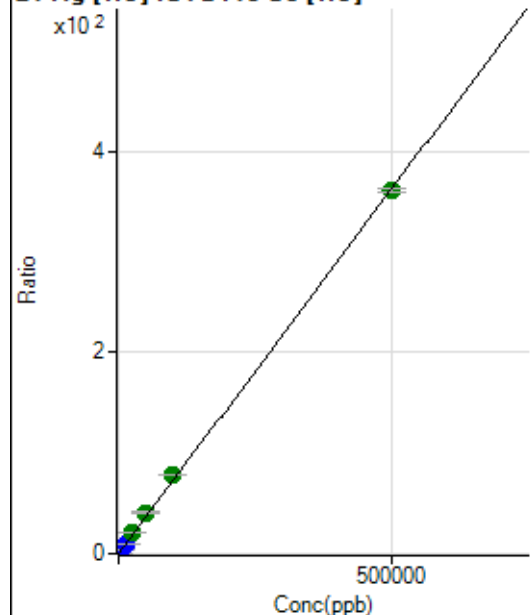
$$R = 0.9999$$

$$DL = 14.5$$

$$BEC = 157.4$$

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	175.00	0.0026	P	18.2
2	☐	500.000	538.675	27707.46	0.3930	P	3.7
3	☐	5000.000	5646.747	294946.14	4.0950	P	1.2
4	☐	12500.000	14045.509	739972.89	10.1819	P	1.1
5	☐	25000.000	28023.264	1467939.89	20.3121	A	1.7
6	☐	50000.000	56483.165	2841266.45	40.9380	A	3.9
7	☐	100000.00	107863.27	5492051.12	78.1750	A	0.6
8	☐	500000.00	497582.72	25655528.70	360.6185	A	1.0

$$y = 7.2474\text{E-}004 * x + 0.0026$$

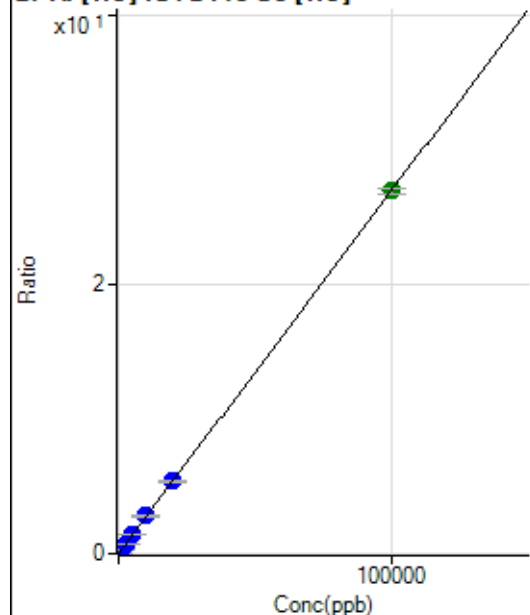
$$R = 0.9998$$

$$DL = 1.968$$

$$BEC = 3.603$$

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	308.61	0.0046	P	1.1
2	☐	20.000	18.246	671.22	0.0095	P	5.0
3	☐	1000.000	1010.984	19983.05	0.2774	P	1.4
4	☐	2500.000	2536.399	50084.20	0.6891	P	0.7
5	☐	5000.000	5078.397	99388.23	1.3752	P	0.6
6	☐	10000.000	10493.562	196875.57	2.8367	P	3.9
7	☐	20000.000	19939.476	378394.71	5.3861	P	0.9
8	☐	100000.00	99957.809	1919594.60	26.9824	A	1.4

$$y = 2.6989\text{E-}004 * x + 0.0046$$

$$R = 1.0000$$

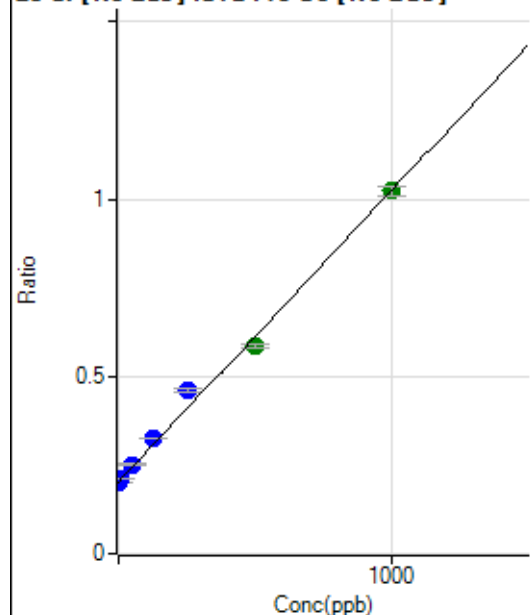
$$DL = 0.5736$$

$$BEC = 17.01$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	429080.03	0.2026	P	0.1
2	☐	10.000	9.436	445776.32	0.2104	P	0.3
3	☐	50.000	59.420	548200.40	0.2514	P	0.8
4	☐	125.000	148.377	697600.71	0.3245	P	0.9
5	☐	250.000	314.068	1004981.95	0.4606	P	2.8
6	☐	500.000	464.516	1283118.09	0.5842	A	2.1
7	☐	1000.000	998.337	2189845.69	1.0227	A	2.4
8	☐			612316.10	0.2918	P	3.1

$$y = 8.2142\text{E-}004 * x + 0.2026$$

R = 0.9966

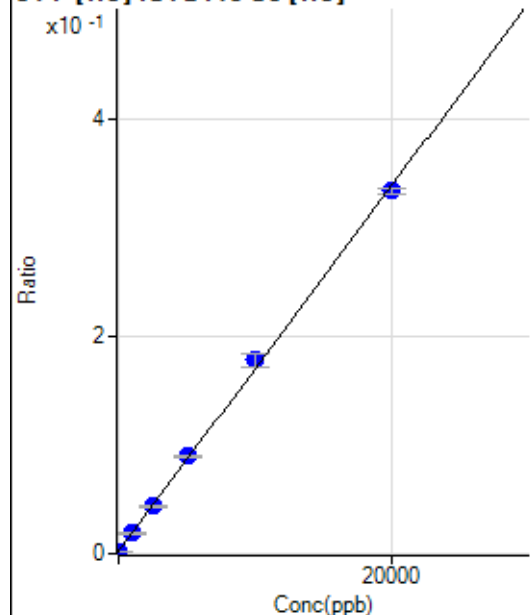
DL = 0.9245

BEC = 246.7

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	-6.912	141.67	0.0021	P	31.0
2	☐	0.000	6.912	166.67	0.0024	P	17.6
3	☐	1000.000	985.456	1355.65	0.0188	P	12.2
4	☐	2500.000	2451.298	3161.56	0.0435	P	6.5
5	☐	5000.000	5213.171	6504.37	0.0900	P	2.1
6	☐	10000.000	10451.248	12355.53	0.1782	P	6.8
7	☐	20000.000	19727.898	23488.98	0.3343	P	1.9
8	☐			141.67	0.0020	P	56.1

$$y = 1.6834\text{E-}005 * x + 0.0022$$

R = 0.9995

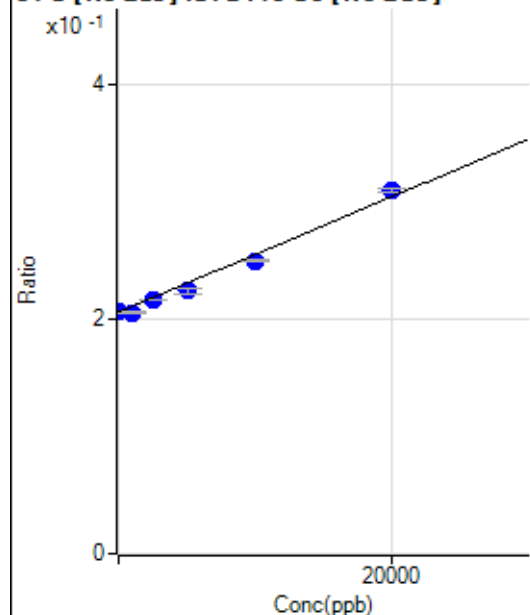
DL = 95.9

BEC = 133.4

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	28.032	436584.34	0.2062	P	1.3
2	☐	0.000	-28.032	436290.80	0.2059	P	0.7
3	☐	1000.000	-143.970	447674.46	0.2053	P	0.8
4	☐	2500.000	2114.428	465279.59	0.2164	P	0.4
5	☐	5000.000	3629.758	488496.22	0.2239	P	1.8
6	☐	10000.000	8893.639	548570.25	0.2498	P	0.2
7	☐	20000.000	21001.136	662238.83	0.3093	P	0.9
8	☐			418173.99	0.1993	P	1.6

$$y = 4.9166\text{E-}006 * x + 0.2060$$

$$R = 0.9952$$

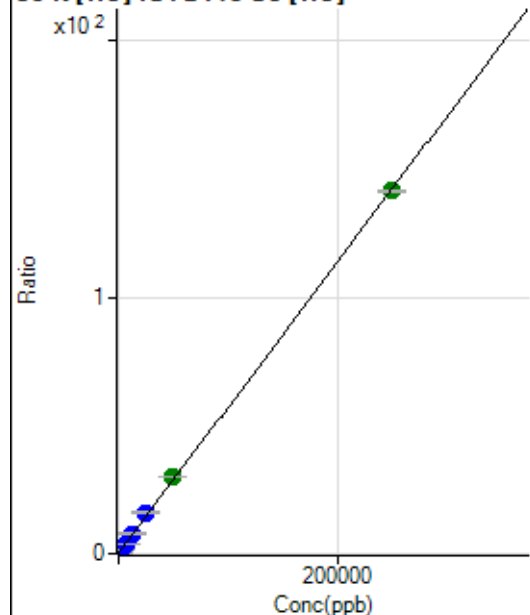
$$DL = 1286$$

$$BEC = 4.19\text{E}+04$$

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	16106.54	0.2399	P	3.8
2	☐	500.000	491.731	36571.94	0.5187	P	3.6
3	☐	2500.000	2614.286	124041.62	1.7222	P	0.7
4	☐	6250.000	6670.656	292290.29	4.0220	P	1.3
5	☐	12500.000	13440.656	568085.03	7.8603	P	0.6
6	☐	25000.000	27586.457	1101734.43	15.8805	P	5.1
7	☐	50000.000	52161.778	2094560.40	29.8139	A	1.0
8	☐	250000.00	249250.32	10070772.88	141.5564	A	0.8

$$y = 5.6697\text{E-}004 * x + 0.2399$$

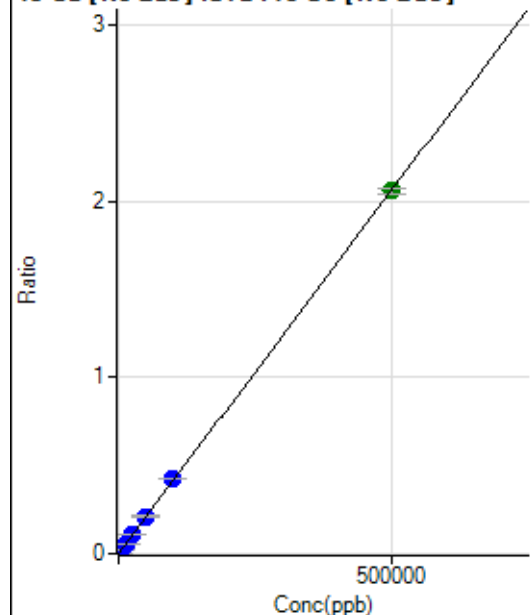
$$R = 0.9999$$

$$DL = 47.67$$

$$BEC = 423.2$$

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	380.57	0.0002	P	22.8
2	☐	500.000	502.783	4770.35	0.0023	P	6.4
3	☐	5000.000	5171.729	46860.30	0.0215	P	0.1
4	☐	12500.000	13100.634	116450.20	0.0542	P	1.9
5	☐	25000.000	26057.979	234692.42	0.1076	P	2.0
6	☐	50000.000	51379.985	465438.61	0.2119	P	1.2
7	☐	100000.00	102512.39	904913.13	0.4226	P	0.6
8	☐	500000.00	499289.88	4318466.98	2.0576	A	1.6

$$y = 4.1208\text{E-}006 * x + 1.7985\text{E-}004$$

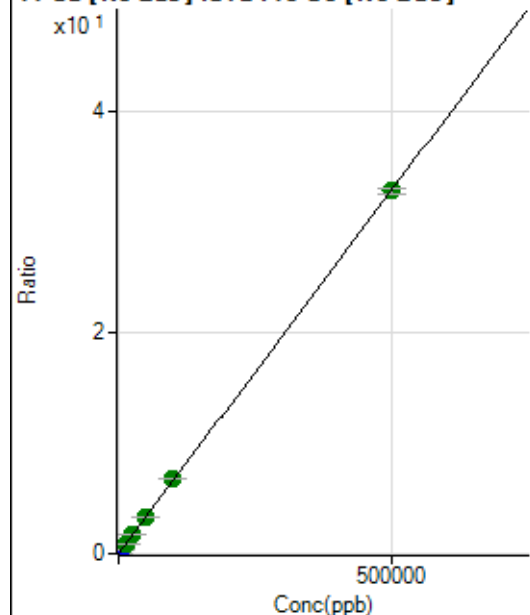
$$R = 1.0000$$

$$DL = 29.89$$

$$BEC = 43.64$$

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	14952.68	0.0071	P	4.2
2	☐	500.000	512.626	86194.07	0.0407	P	1.5
3	☐	5000.000	5269.925	768917.51	0.3526	P	0.6
4	☐	12500.000	13287.888	1888545.81	0.8784	A	0.2
5	☐	25000.000	26019.308	3738676.08	1.7133	A	1.5
6	☐	50000.000	51383.084	7416542.79	3.3766	A	0.2
7	☐	100000.00	102603.24	14422551.02	6.7355	A	0.6
8	☐	500000.00	499267.66	68729653.62	32.7475	A	1.6

$$y = 6.5577\text{E-}005 * x + 0.0071$$

$$R = 1.0000$$

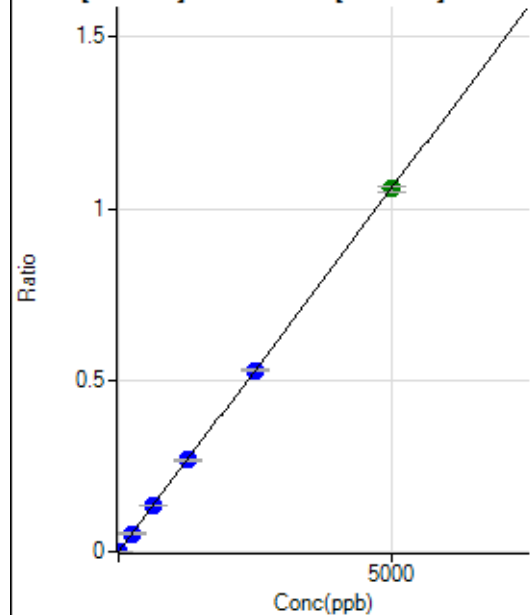
$$DL = 13.65$$

$$BEC = 107.7$$

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	388.91	0.0002	P	26.3
2	☐	5.000	5.209	2725.33	0.0013	P	6.3
3	☐	250.000	250.621	116055.96	0.0532	P	0.9
4	☐	625.000	643.033	292969.65	0.1363	P	1.4
5	☐	1250.000	1261.162	582880.56	0.2671	P	0.7
6	☐	2500.000	2501.146	1163113.90	0.5295	P	0.5
7	☐	5000.000	4994.351	2263754.52	1.0572	A	1.4
8	☐			700.03	0.0003	P	13.5

$$y = 2.1165E-004 * x + 1.8377E-004$$

$$R = 1.0000$$

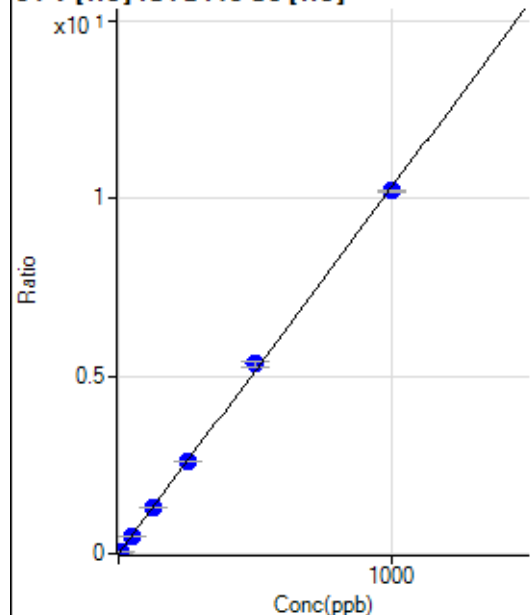
$$DL = 0.6852$$

$$BEC = 0.8683$$

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	16.67	0.0002	P	48.6
2	☐	5.000	5.126	3746.08	0.0531	P	1.6
3	☐	50.000	48.994	36421.83	0.5057	P	1.1
4	☐	125.000	125.768	94310.24	1.2977	P	1.1
5	☐	250.000	252.002	187903.22	2.6000	P	0.8
6	☐	500.000	517.354	370417.28	5.3374	P	4.0
7	☐	1000.000	990.776	718083.94	10.2214	P	0.7
8	☐			281.11	0.0040	P	15.5

$$y = 0.0103 * x + 2.4453E-004$$

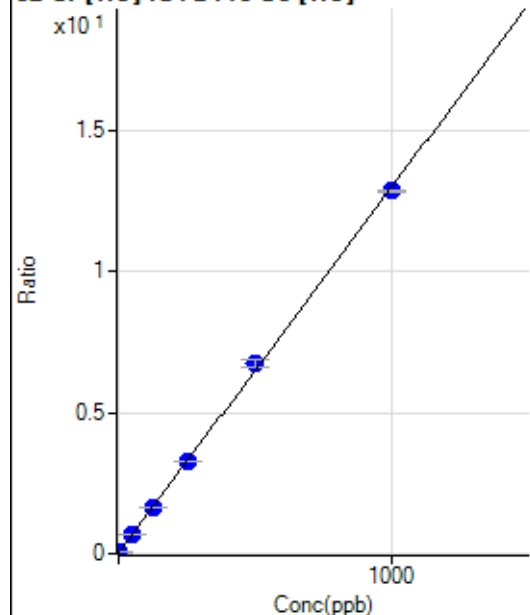
$$R = 0.9998$$

$$DL = 0.03453$$

$$BEC = 0.0237$$

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	1304.52	0.0194	P	5.4
2	☐	2.000	1.832	3045.91	0.0432	P	1.5
3	☐	50.000	50.014	48155.13	0.6686	P	0.5
4	☐	125.000	125.357	119656.49	1.6465	P	0.8
5	☐	250.000	251.488	237305.98	3.2836	P	1.1
6	☐	500.000	518.378	468254.56	6.7476	P	4.2
7	☐	1000.000	990.394	904458.36	12.8741	P	0.8
8	☐			24703.60	0.3472	P	0.8

$$y = 0.0130 * x + 0.0194$$

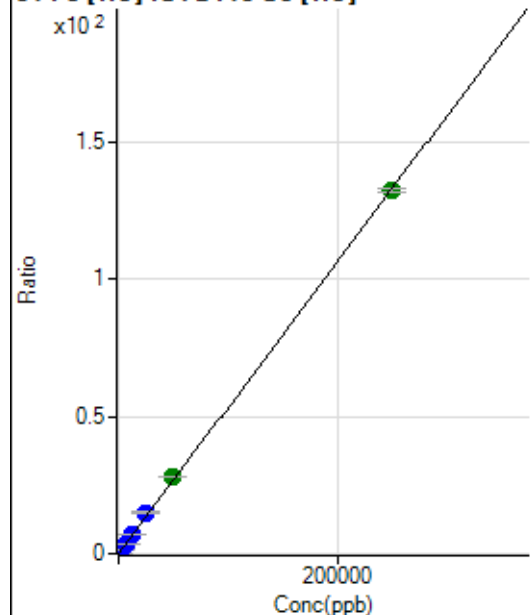
$$R = 0.9997$$

$$DL = 0.2403$$

$$BEC = 1.495$$

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	331.49	0.0049	P	9.0
2	☐	50.000	57.847	2509.52	0.0356	P	3.8
3	☐	2500.000	2679.286	102621.15	1.4248	P	1.4
4	☐	6250.000	6746.825	260209.25	3.5804	P	0.7
5	☐	12500.000	13548.543	519261.26	7.1850	P	1.1
6	☐	25000.000	27765.952	1021312.38	14.7195	P	4.7
7	☐	50000.000	53314.324	1985293.97	28.2589	A	0.3
8	☐	250000.00	248993.89	9388185.16	131.9595	A	0.9

$$y = 5.2995E-004 * x + 0.0049$$

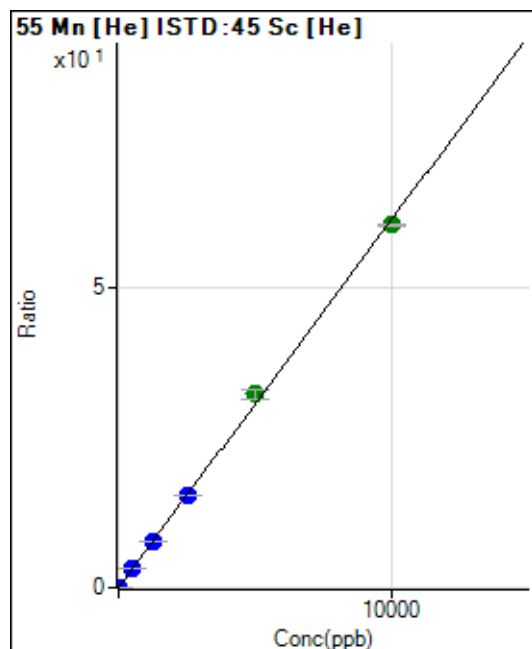
$$R = 0.9999$$

$$DL = 2.518$$

$$BEC = 9.31$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	78.89	0.0012	P	34.7
2	☐	1.000	0.948	494.46	0.0070	P	1.3
3	☐	500.000	497.922	220298.11	3.0585	P	0.4
4	☐	1250.000	1266.319	565162.47	7.7765	P	0.7
5	☐	2500.000	2523.370	1119843.53	15.4950	P	0.1
6	☐	5000.000	5258.439	2240263.94	32.2886	A	4.9
7	☐	10000.000	9863.002	4254601.08	60.5611	A	0.8
8	☐			3968.37	0.0558	P	0.5

$$y = 0.0061 * x + 0.0012$$

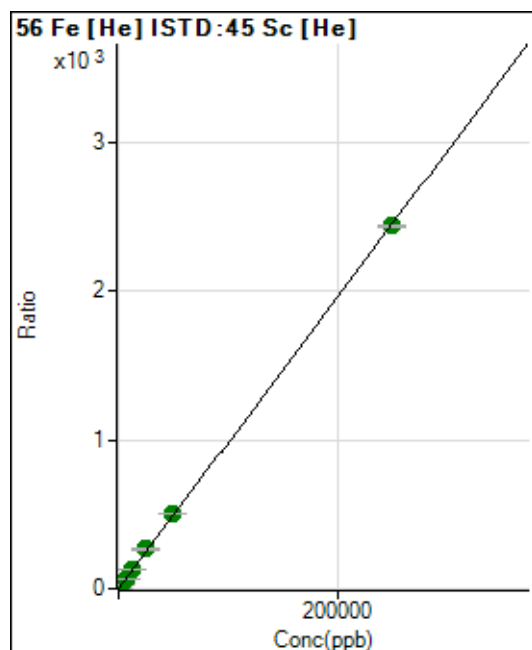
$$R = 0.9995$$

$$DL = 0.2016$$

$$BEC = 0.1934$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	2198.36	0.0328	P	6.5
2	☐	50.000	53.774	39439.83	0.5593	P	1.5
3	☐	2500.000	2642.439	1866186.44	25.9080	A	0.9
4	☐	6250.000	6681.202	4756831.12	65.4563	A	1.6
5	☐	12500.000	13363.245	9459528.91	130.8880	A	0.4
6	☐	25000.000	27182.192	18472996.02	266.2056	A	4.3
7	☐	50000.000	51751.414	35604195.70	506.7917	A	0.5
8	☐	250000.00	249376.13	173729174.2	2,441.967	A	0.8

$$y = 0.0098 * x + 0.0328$$

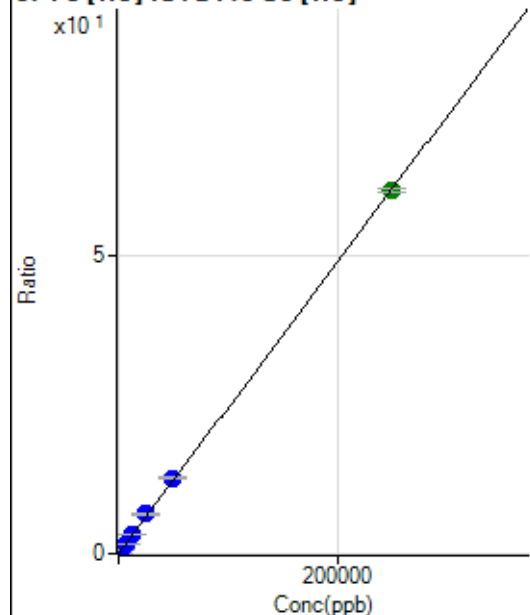
$$R = 0.9999$$

$$DL = 0.6542$$

$$BEC = 3.346$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	88.89	0.0013	P	31.7
2	☐	50.000	52.301	992.65	0.0141	P	12.3
3	☐	2500.000	2640.221	46449.64	0.6449	P	1.3
4	☐	6250.000	6632.072	117579.26	1.6180	P	2.3
5	☐	12500.000	13376.469	235755.67	3.2621	P	0.3
6	☐	25000.000	27374.002	463167.85	6.6742	P	4.2
7	☐	50000.000	52070.259	891820.80	12.6943	P	0.5
8	☐	250000.00	249293.77	4323413.26	60.7710	A	1.0

$$y = 2.4377E-004 * x + 0.0013$$

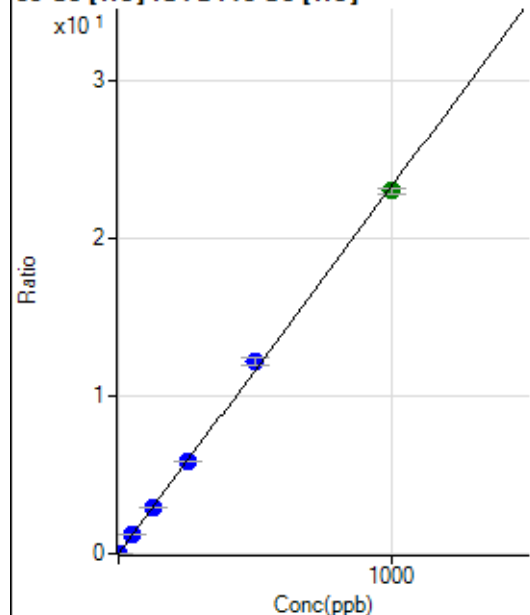
$$R = 0.9999$$

$$DL = 5.15$$

$$BEC = 5.412$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	126.67	0.0019	P	14.9
2	☐	1.000	0.996	1770.13	0.0251	P	4.8
3	☐	50.000	50.664	85191.61	1.1828	P	0.9
4	☐	125.000	126.539	214489.26	2.9513	P	0.7
5	☐	250.000	253.082	426456.72	5.9008	P	0.5
6	☐	500.000	522.102	844583.00	12.1712	P	4.4
7	☐	1000.000	987.953	1617879.02	23.0294	A	1.3
8	☐			2910.33	0.0409	P	5.0

$$y = 0.0233 * x + 0.0019$$

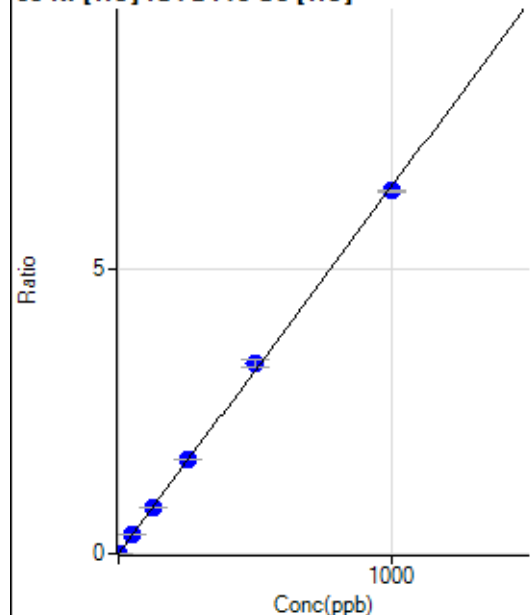
$$R = 0.9996$$

$$DL = 0.03629$$

$$BEC = 0.08116$$

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	77.78	0.0012	P	16.5
2	☐	1.000	1.056	561.13	0.0080	P	4.3
3	☐	50.000	50.999	23705.37	0.3291	P	1.6
4	☐	125.000	126.658	59276.07	0.8157	P	1.6
5	☐	250.000	255.720	118932.86	1.6456	P	0.4
6	☐	500.000	519.401	231845.84	3.3413	P	4.6
7	☐	1000.000	988.612	446723.39	6.3587	P	0.6
8	☐			7663.24	0.1077	P	1.7

$$y = 0.0064 * x + 0.0012$$

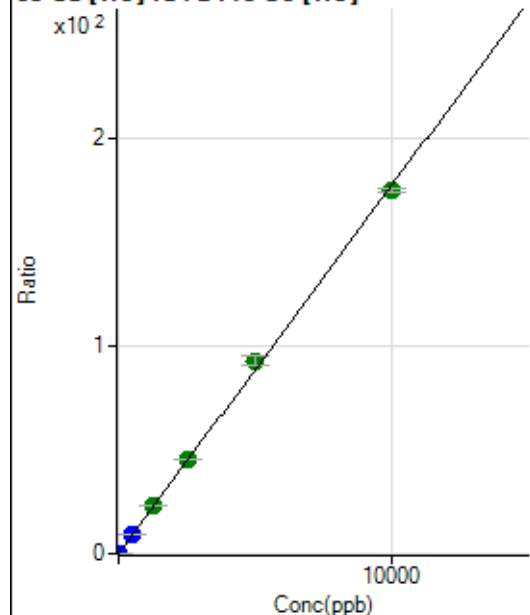
$$R = 0.9997$$

$$DL = 0.08941$$

$$BEC = 0.1807$$

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	281.12	0.0042	P	5.4
2	☐	2.000	2.085	2902.55	0.0412	P	3.0
3	☐	500.000	514.248	657343.99	9.1266	P	1.2
4	☐	1250.000	1285.597	1657709.66	22.8099	A	0.8
5	☐	2500.000	2562.971	3286173.46	45.4698	A	0.7
6	☐	5000.000	5241.023	6451858.24	92.9768	A	4.4
7	☐	10000.000	9858.584	12286768.01	174.8896	A	1.2
8	☐			5904.62	0.0830	P	2.0

$$y = 0.0177 * x + 0.0042$$

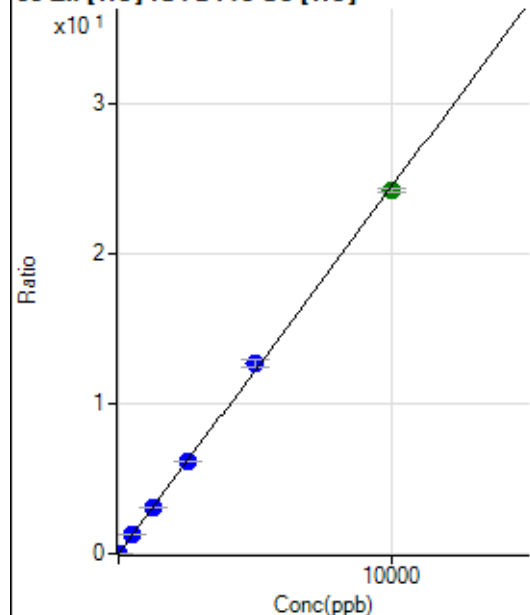
$$R = 0.9995$$

$$DL = 0.03802$$

$$BEC = 0.2359$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	104.44	0.0016	P	8.2
2	☐	2.000	2.182	486.68	0.0069	P	8.0
3	☐	500.000	512.144	90505.29	1.2566	P	1.1
4	☐	1250.000	1271.698	226593.47	3.1179	P	0.8
5	☐	2500.000	2539.557	449876.60	6.2248	P	0.2
6	☐	5000.000	5194.416	883311.35	12.7306	P	4.7
7	☐	10000.000	9889.583	1702710.39	24.2363	A	1.0
8	☐			7632.12	0.1073	P	0.5

$$y = 0.0025 * x + 0.0016$$

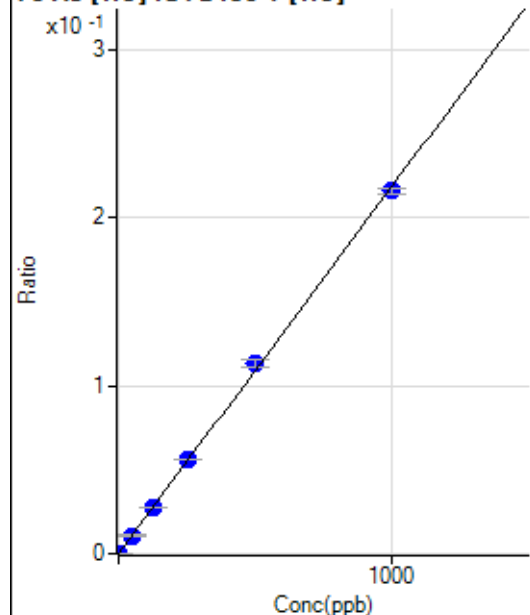
$$R = 0.9997$$

$$DL = 0.1563$$

$$BEC = 0.6329$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	5.00	0.0000	P	48.7
2	☐	1.000	0.937	118.01	0.0002	P	9.4
3	☐	50.000	49.655	6166.98	0.0108	P	1.4
4	☐	125.000	126.863	15783.04	0.0277	P	0.3
5	☐	250.000	256.170	31740.29	0.0559	P	0.1
6	☐	500.000	517.566	62742.40	0.1129	P	3.8
7	☐	1000.000	989.459	121708.16	0.2158	P	1.4
8	☐			66.34	0.0001	P	25.3

$$y = 2.1809E-004 * x + 9.3187E-006$$

$$R = 0.9997$$

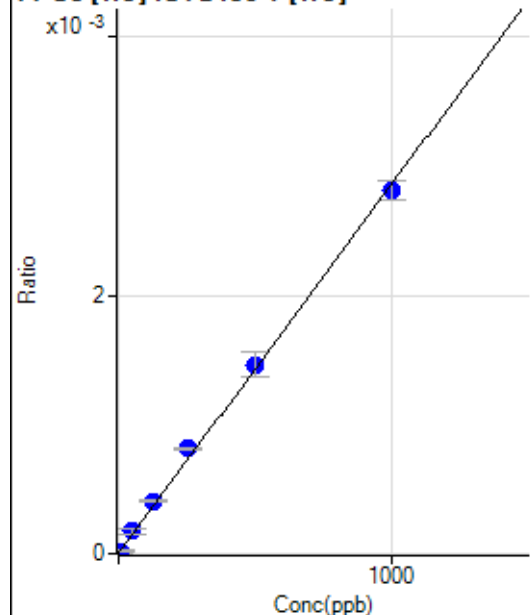
$$DL = 0.06245$$

$$BEC = 0.04273$$

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	1.11	0.0000	P	173.2
2	☐	5.000	6.340	11.11	0.0000	P	105.6
3	☐	50.000	59.415	97.78	0.0002	P	18.9
4	☐	125.000	141.835	232.23	0.0004	P	5.0
5	☐	250.000	284.862	463.35	0.0008	P	2.1
6	☐	500.000	511.873	812.25	0.0015	P	12.9
7	☐	1000.000	982.766	1584.55	0.0028	P	5.4
8	☐			1.11	0.0000	P	173.2

$$y = 2.8564E-006 * x + 2.0428E-006$$

$$R = 0.9992$$

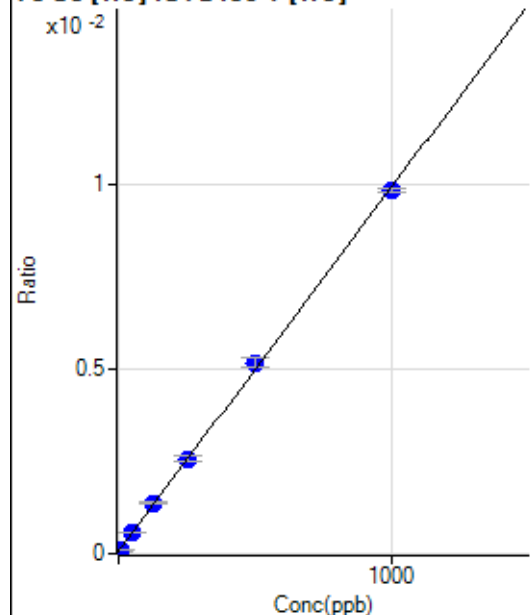
$$DL = 3.716$$

$$BEC = 0.7152$$

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	36.00	0.0001	P	6.4
2	☐	5.000	5.241	66.01	0.0001	P	12.9
3	☐	50.000	50.804	323.71	0.0006	P	3.3
4	☐	125.000	131.831	780.10	0.0014	P	3.1
5	☐	250.000	253.189	1456.56	0.0026	P	5.6
6	☐	500.000	517.189	2871.59	0.0052	P	5.0
7	☐	1000.000	989.713	5542.65	0.0098	P	0.9
8	☐			34.33	0.0001	P	24.3

$$y = 9.8610E-006 * x + 6.7869E-005$$

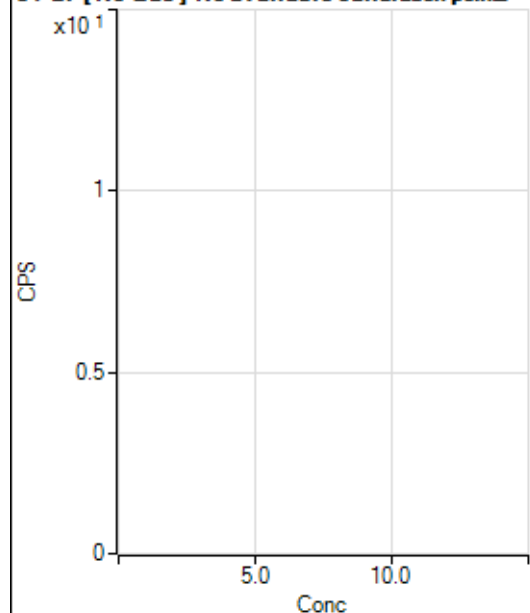
$$R = 0.9998$$

$$DL = 1.323$$

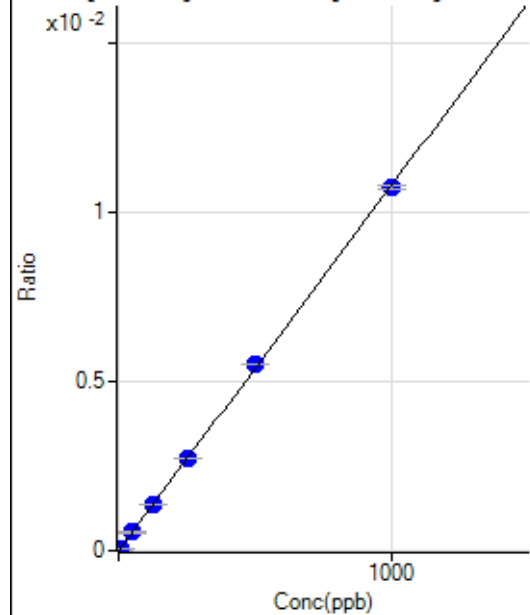
$$BEC = 6.883$$

Weight: <None>

Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1738.57		P	4.9
2	☐			1711.87		P	4.7
3	☐			1751.92		P	4.5
4	☐			1661.81		P	12.6
5	☐			1848.69		P	10.6
6	☐			1721.89		P	8.2
7	☐			1668.49		P	13.3
8	☐			1658.49		P	5.1

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	-20.00	0.0000	P	-181.
2	☐	5.000	6.162	310.22	0.0001	P	21.5
3	☐	50.000	50.408	2746.96	0.0005	P	3.9
4	☐	125.000	128.018	7010.30	0.0014	P	0.9
5	☐	250.000	253.062	13969.85	0.0027	P	1.3
6	☐	500.000	511.165	28159.80	0.0055	P	0.6
7	☐	1000.000	993.249	54520.64	0.0107	P	1.1
8	☐			32.96	0.0000	P	262.9

$$y = 1.0816E-005 * x - 4.0513E-006$$

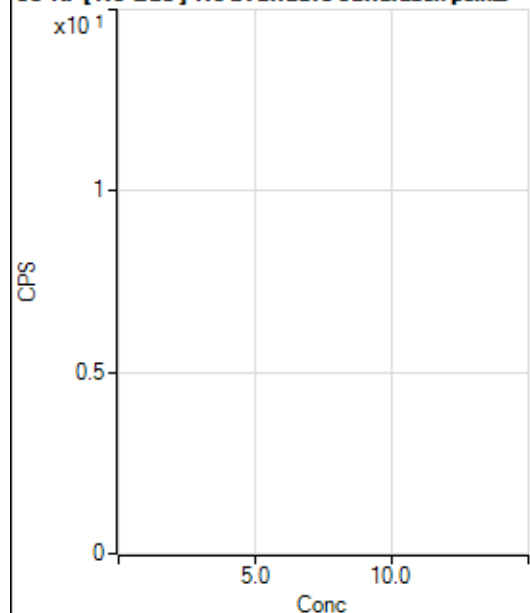
$$R = 0.9999$$

$$DL = 2.041$$

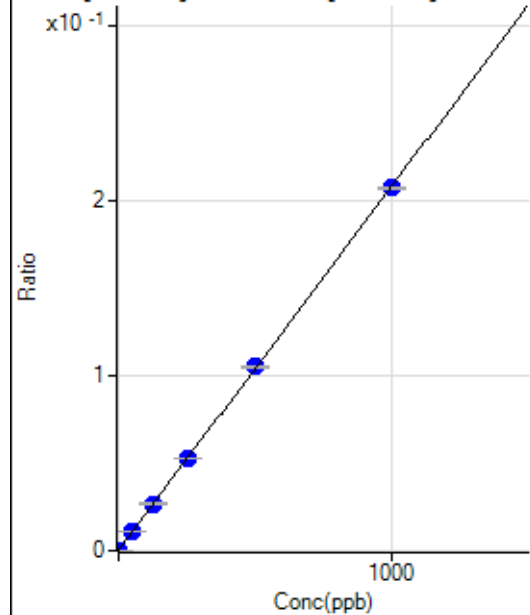
$$BEC = -0.3746$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			708.91		P	3.3
2	☐			706.69		P	1.7
3	☐			730.03		P	9.0
4	☐			725.58		P	5.2
5	☐			752.25		P	9.5
6	☐			778.92		P	7.0
7	☐			781.14		P	4.9
8	☐			718.91		P	7.5

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	1186.20	0.0002	P	7.6
2	☐	1.000	0.876	2091.88	0.0004	P	12.4
3	☐	50.000	50.332	54297.93	0.0107	P	0.5
4	☐	125.000	127.973	136234.26	0.0268	P	1.0
5	☐	250.000	253.931	270921.54	0.0530	P	0.3
6	☐	500.000	504.194	535174.02	0.1050	P	1.1
7	☐	1000.000	996.532	1052466.28	0.2073	P	0.5
8	☐			3211.56	0.0006	P	4.7

$$y = 2.0779E-004 * x + 2.4012E-004$$

$$R = 1.0000$$

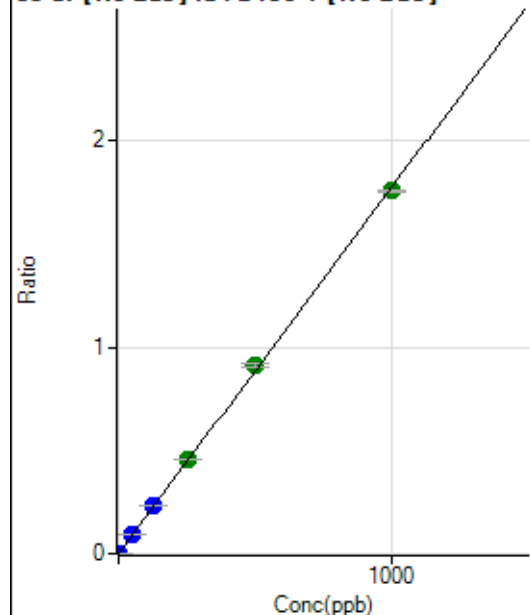
$$DL = 0.2633$$

$$BEC = 1.156$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	130.56	0.0000	P	20.3
2	☐	1.000	0.994	8858.64	0.0018	P	3.4
3	☐	50.000	51.225	460839.31	0.0908	P	0.7
4	☐	125.000	130.388	1173314.06	0.2311	P	1.1
5	☐	250.000	255.213	2311753.18	0.4523	A	0.2
6	☐	500.000	513.351	4636634.35	0.9097	A	1.8
7	☐	1000.000	991.286	8917939.09	1.7566	A	0.8
8	☐			19127.51	0.0038	P	3.6

$$y = 0.0018 * x + 2.6419E-005$$

$$R = 0.9998$$

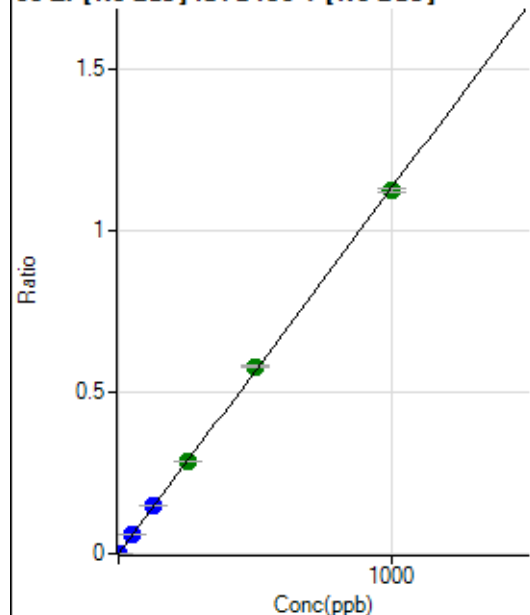
$$DL = 0.009097$$

$$BEC = 0.01491$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	216.67	0.0000	P	10.4
2	☐	1.000	0.908	5301.17	0.0011	P	3.2
3	☐	50.000	51.021	292770.02	0.0577	P	0.9
4	☐	125.000	129.620	743776.38	0.1465	P	1.0
5	☐	250.000	253.352	1463283.16	0.2863	A	0.5
6	☐	500.000	511.858	2947628.36	0.5783	A	0.5
7	☐	1000.000	992.604	5693337.46	1.1215	A	1.0
8	☐			1602.92	0.0003	P	6.6

$$y = 0.0011 * x + 4.3862E-005$$

$$R = 0.9999$$

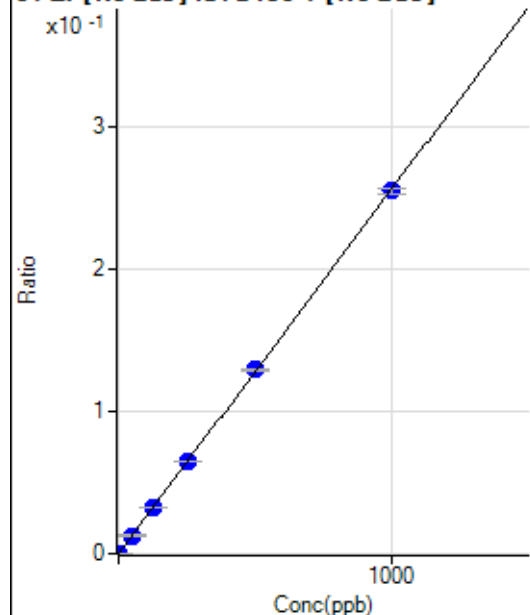
$$DL = 0.01207$$

$$BEC = 0.03882$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	47.22	0.0000	P	27.1
2	☐	1.000	0.968	1275.10	0.0003	P	7.3
3	☐	50.000	50.048	65088.39	0.0128	P	2.1
4	☐	125.000	127.976	166429.32	0.0328	P	0.8
5	☐	250.000	252.820	330925.27	0.0647	P	0.5
6	☐	500.000	506.223	660679.02	0.1296	P	1.1
7	☐	1000.000	995.809	1294436.70	0.2550	P	1.6
8	☐			402.80	0.0001	P	24.3

$$y = 2.5605\text{E-}004 * x + 9.5612\text{E-}006$$

$$R = 1.0000$$

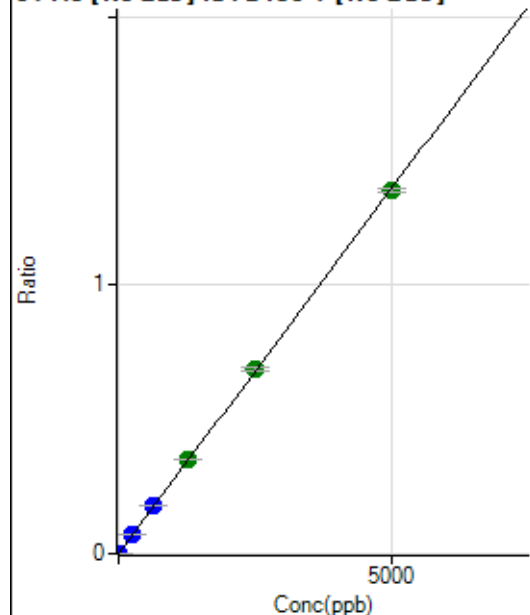
$$DL = 0.03041$$

$$BEC = 0.03734$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	66.67	0.0000	P	12.3
2	☐	5.000	5.284	7193.71	0.0015	P	1.8
3	☐	250.000	257.605	355850.63	0.0701	P	1.0
4	☐	625.000	653.508	903023.99	0.1778	P	1.0
5	☐	1250.000	1289.986	1794351.13	0.3510	A	0.2
6	☐	2500.000	2534.004	3514497.30	0.6896	A	1.5
7	☐	5000.000	4969.058	6865053.54	1.3522	A	1.0
8	☐			4789.83	0.0010	P	9.0

$$y = 2.7212\text{E-}004 * x + 1.3492\text{E-}005$$

$$R = 0.9999$$

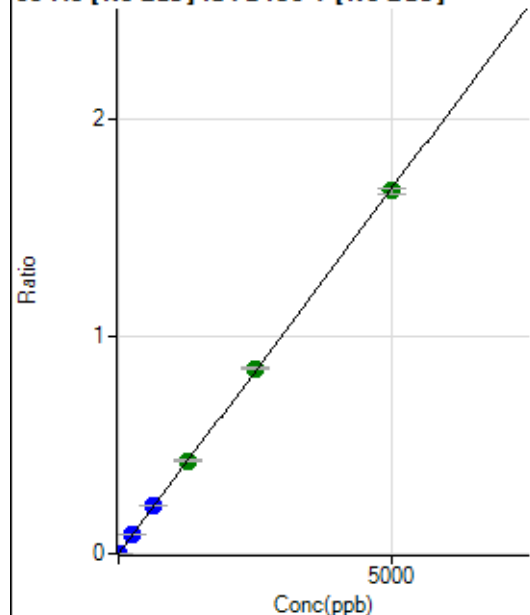
$$DL = 0.01828$$

$$BEC = 0.04958$$

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	5.56	0.0000	P	173.2
2	☐	5.000	5.240	8741.89	0.0018	P	3.1
3	☐	250.000	252.709	431485.86	0.0850	P	1.6
4	☐	625.000	648.456	1107662.59	0.2181	P	0.7
5	☐	1250.000	1274.866	2192077.80	0.4289	A	1.4
6	☐	2500.000	2537.125	4350180.87	0.8535	A	1.3
7	☐	5000.000	4972.153	8491459.48	1.6727	A	1.8
8	☐			7032.49	0.0014	P	2.5

$$y = 3.3641\text{E-}004 * x + 1.1225\text{E-}006$$

$$R = 0.9999$$

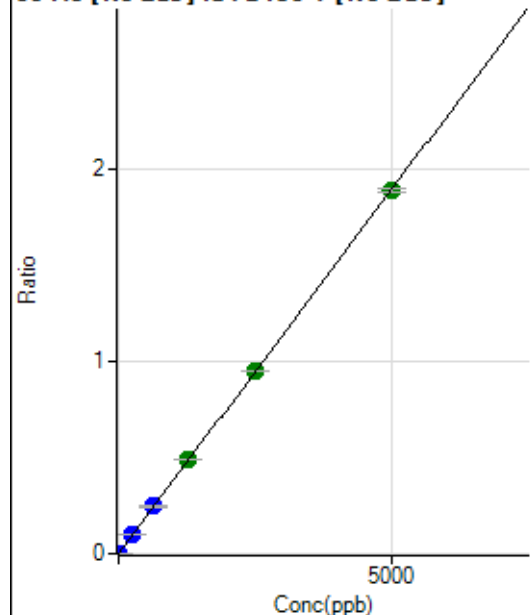
$$DL = 0.01734$$

$$BEC = 0.003337$$

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	100.00	0.0000	P	38.4
2	☐	5.000	5.170	9778.69	0.0020	P	1.9
3	☐	250.000	254.330	487629.13	0.0961	P	0.6
4	☐	625.000	647.116	1241153.53	0.2444	P	0.5
5	☐	1250.000	1287.059	2484836.12	0.4861	A	0.6
6	☐	2500.000	2509.751	4831469.64	0.9479	A	0.3
7	☐	5000.000	4982.879	9554333.11	1.8820	A	1.1
8	☐			8522.26	0.0017	P	3.2

$$y = 3.7769\text{E-}004 * x + 2.0253\text{E-}005$$

$$R = 1.0000$$

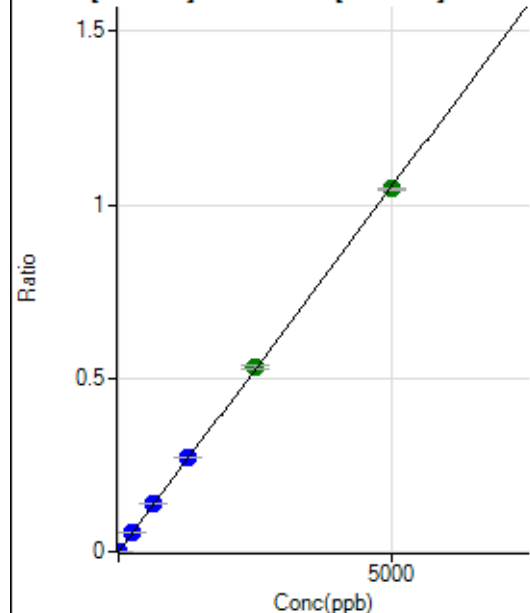
$$DL = 0.06178$$

$$BEC = 0.05362$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	13.89	0.0000	P	91.6
2	☐	5.000	5.177	5409.55	0.0011	P	3.6
3	☐	250.000	254.725	271859.89	0.0536	P	1.0
4	☐	625.000	648.960	692914.96	0.1365	P	0.3
5	☐	1250.000	1284.789	1380907.33	0.2702	P	0.3
6	☐	2500.000	2531.328	2712817.79	0.5323	A	2.1
7	☐	5000.000	4972.407	5308133.89	1.0456	A	0.8
8	☐			4478.62	0.0009	P	3.6

$$y = 2.1027\text{E-}004 * x + 2.8078\text{E-}006$$

$$R = 0.9999$$

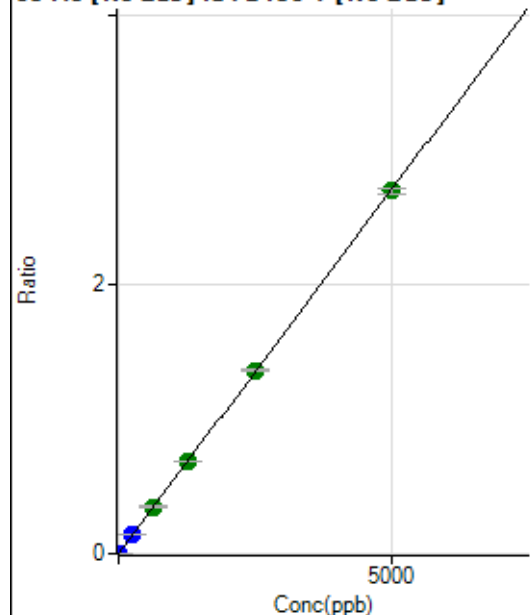
$$DL = 0.0367$$

$$BEC = 0.01335$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	16.67	0.0000	P	86.6
2	☐	5.000	5.045	13526.37	0.0027	P	1.1
3	☐	250.000	255.441	700444.47	0.1380	P	0.5
4	☐	625.000	643.522	1765348.48	0.3477	A	1.2
5	☐	1250.000	1268.119	3501966.13	0.6851	A	0.9
6	☐	2500.000	2516.218	6928791.99	1.3594	A	0.7
7	☐	5000.000	4984.774	13672055.34	2.6931	A	1.5
8	☐			11527.29	0.0023	P	1.2

$$y = 5.4027\text{E-}004 * x + 3.3740\text{E-}006$$

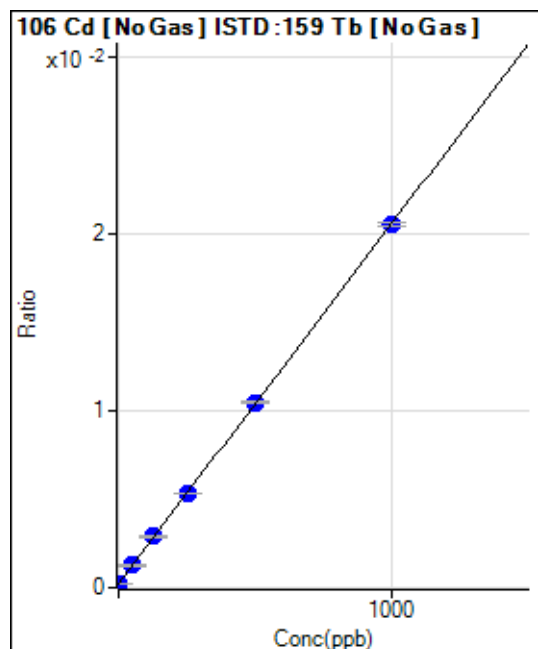
$$R = 1.0000$$

$$DL = 0.01623$$

$$BEC = 0.006245$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	938.95	0.0002	P	12.7
2	☐	1.000	0.211	958.39	0.0002	P	7.3
3	☐	50.000	50.632	5401.20	0.0013	P	2.4
4	☐	125.000	131.416	12408.65	0.0029	P	3.4
5	☐	250.000	250.316	23064.37	0.0053	P	1.5
6	☐	500.000	504.118	45508.79	0.0105	P	1.1
7	☐	1000.000	997.029	89053.51	0.0205	P	1.2
8	☐			880.61	0.0002	P	4.7

$$y = 2.0365E-005 * x + 2.2448E-004$$

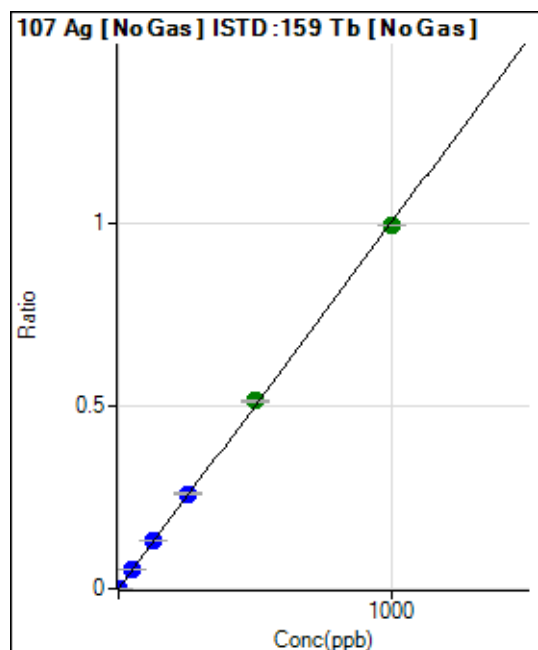
R = 1.0000

DL = 4.201

BEC = 11.02

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	47.22	0.0000	P	27.4
2	☐	1.000	1.451	6154.31	0.0015	P	4.3
3	☐	50.000	51.782	223857.89	0.0520	P	1.3
4	☐	125.000	132.924	571307.67	0.1336	P	0.7
5	☐	250.000	259.373	1129445.37	0.2606	P	0.5
6	☐	500.000	512.405	2233266.39	0.5148	A	1.8
7	☐	1000.000	990.374	4316846.19	0.9951	A	0.1
8	☐			1238.98	0.0003	P	2.4

$$y = 0.0010 * x + 1.1297E-005$$

R = 0.9998

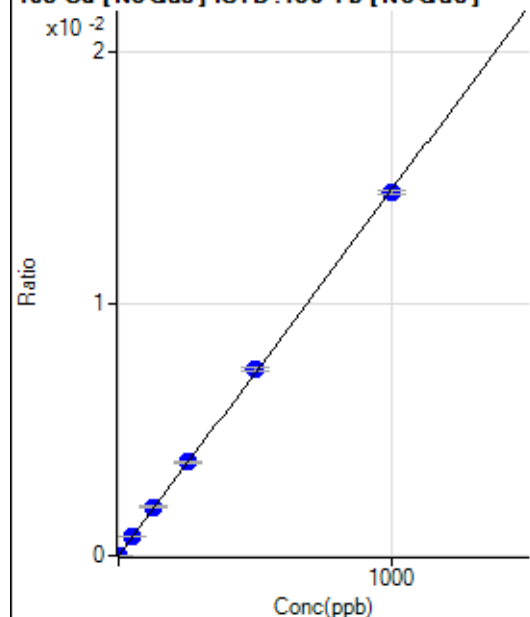
DL = 0.009228

BEC = 0.01124

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	2.78	0.0000	P	86.6
2	☐	1.000	0.732	47.22	0.0000	P	13.6
3	☐	50.000	51.380	3205.97	0.0007	P	3.3
4	☐	125.000	133.523	8278.96	0.0019	P	2.5
5	☐	250.000	255.715	16062.25	0.0037	P	1.5
6	☐	500.000	510.509	32094.37	0.0074	P	1.4
7	☐	1000.000	992.183	62377.60	0.0144	P	1.0
8	☐			33.33	0.0000	P	33.6

$$y = 1.4492\text{E-}005 * x + 6.6302\text{E-}007$$

$$R = 0.9999$$

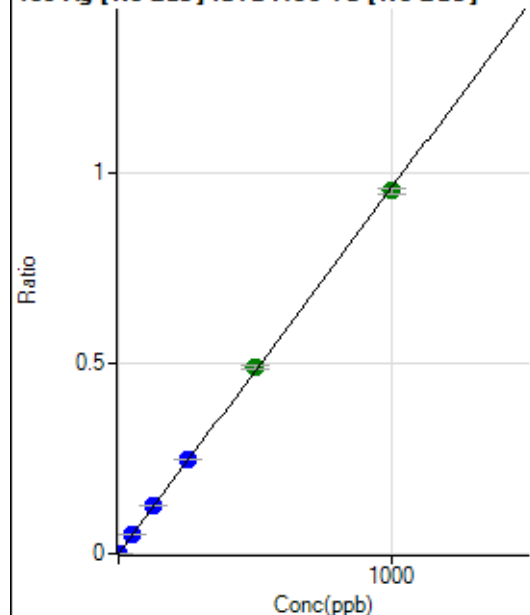
$$DL = 0.1189$$

$$BEC = 0.04575$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	11.11	0.0000	P	42.9
2	☐	1.000	1.414	5690.25	0.0014	P	6.7
3	☐	50.000	52.332	215792.29	0.0502	P	0.2
4	☐	125.000	133.032	545424.48	0.1275	P	1.0
5	☐	250.000	259.485	1077910.65	0.2487	P	0.5
6	☐	500.000	509.161	2117003.20	0.4880	A	1.5
7	☐	1000.000	991.928	4124318.54	0.9508	A	1.7
8	☐			1155.64	0.0003	P	4.5

$$y = 9.5851\text{E-}004 * x + 2.6526\text{E-}006$$

$$R = 0.9999$$

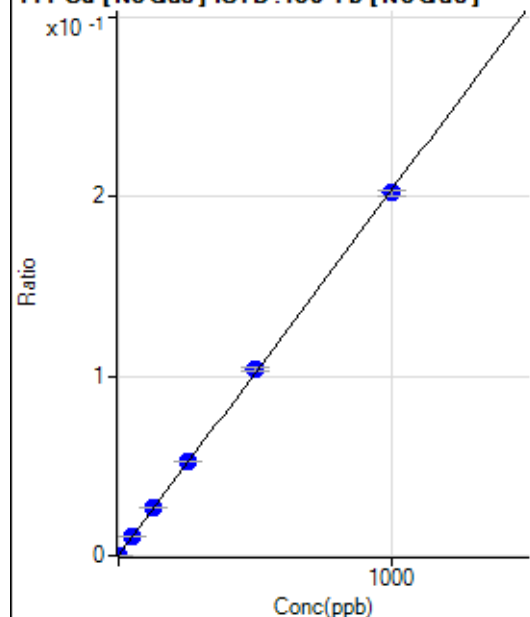
$$DL = 0.003562$$

$$BEC = 0.002767$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	666.43	0.0002	P	12.3
2	☐	1.000	0.932	1461.47	0.0003	P	4.3
3	☐	50.000	51.863	46084.89	0.0107	P	1.2
4	☐	125.000	130.417	114200.94	0.0267	P	0.4
5	☐	250.000	257.008	227334.62	0.0525	P	1.1
6	☐	500.000	509.511	450433.54	0.1038	P	1.4
7	☐	1000.000	992.722	876991.00	0.2022	P	1.3
8	☐			779.21	0.0002	P	6.0

$$y = 2.0349\text{E-}004 * x + 1.5933\text{E-}004$$

$$R = 0.9999$$

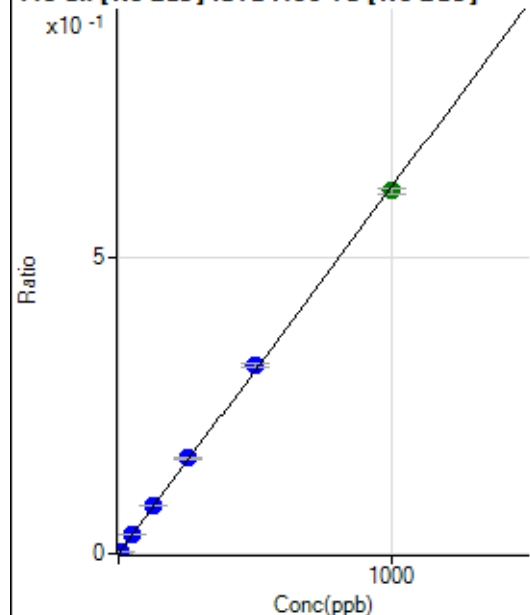
$$DL = 0.29$$

$$BEC = 0.783$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	744.49	0.0002	P	11.6
2	☐	5.000	5.188	14202.19	0.0034	P	2.2
3	☐	50.000	51.381	137645.34	0.0320	P	1.2
4	☐	125.000	131.529	349165.74	0.0816	P	0.8
5	☐	250.000	259.407	696973.43	0.1608	P	0.7
6	☐	500.000	514.488	1382841.24	0.3188	P	1.5
7	☐	1000.000	989.518	2658944.81	0.6130	A	1.5
8	☐			2191.90	0.0005	P	10.2

$$y = 6.1928\text{E-}004 * x + 1.7790\text{E-}004$$

$$R = 0.9998$$

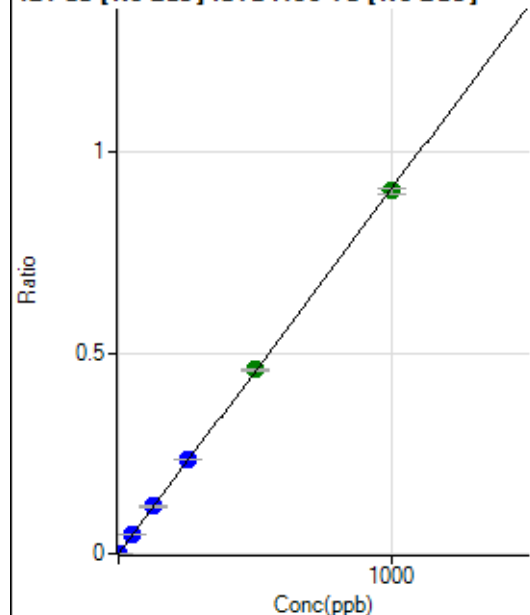
$$DL = 0.1002$$

$$BEC = 0.2873$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	16.67	0.0000	P	49.7
2	☐	2.000	1.890	7218.75	0.0017	P	1.7
3	☐	50.000	51.237	200550.78	0.0466	P	0.9
4	☐	125.000	130.055	506141.76	0.1183	P	1.6
5	☐	250.000	259.324	1022515.61	0.2359	P	0.7
6	☐	500.000	504.830	1992387.65	0.4593	A	1.4
7	☐	1000.000	994.561	3925137.50	0.9049	A	1.6
8	☐			3136.55	0.0007	P	8.9

$$y = 9.0982\text{E-}004 * x + 3.9807\text{E-}006$$

$$R = 0.9999$$

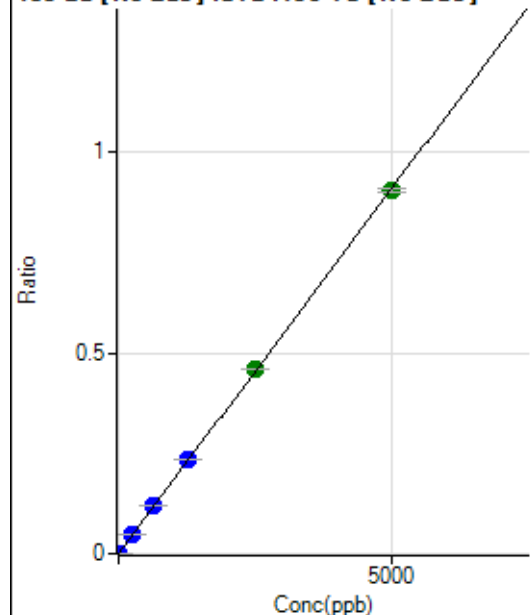
$$DL = 0.006525$$

$$BEC = 0.004375$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	47.22	0.0000	P	62.2
2	☐	10.000	10.286	7880.32	0.0019	P	1.2
3	☐	250.000	256.863	200948.38	0.0467	P	0.8
4	☐	625.000	646.823	503089.50	0.1176	P	0.2
5	☐	1250.000	1284.120	1011867.93	0.2335	P	0.7
6	☐	2500.000	2531.148	1996384.57	0.4602	A	0.5
7	☐	5000.000	4972.824	3922113.02	0.9042	A	1.2
8	☐			7471.69	0.0018	P	6.7

$$y = 1.8182\text{E-}004 * x + 1.1296\text{E-}005$$

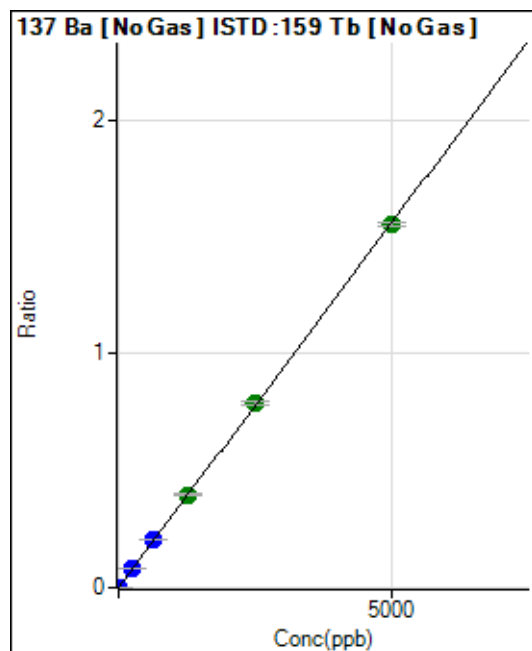
$$R = 0.9999$$

$$DL = 0.116$$

$$BEC = 0.06213$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	55.56	0.0000	P	8.7
2	☐	10.000	10.121	13270.73	0.0032	P	2.3
3	☐	250.000	255.538	342771.08	0.0797	P	1.1
4	☐	625.000	650.971	868144.43	0.2030	P	1.0
5	☐	1250.000	1275.423	1723265.90	0.3976	A	2.0
6	☐	2500.000	2530.642	3422407.20	0.7890	A	1.5
7	☐	5000.000	4974.800	6728116.82	1.5510	A	1.1
8	☐			12884.21	0.0031	P	3.0

$$y = 3.1177\text{E-}004 * x + 1.3280\text{E-}005$$

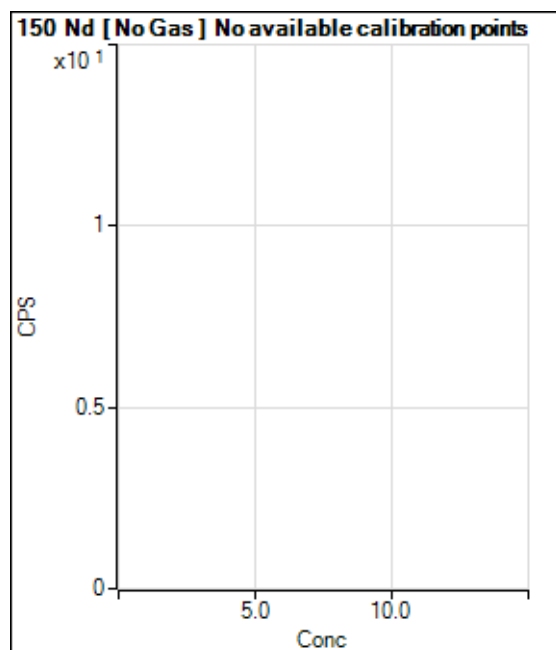
$$R = 0.9999$$

$$DL = 0.01108$$

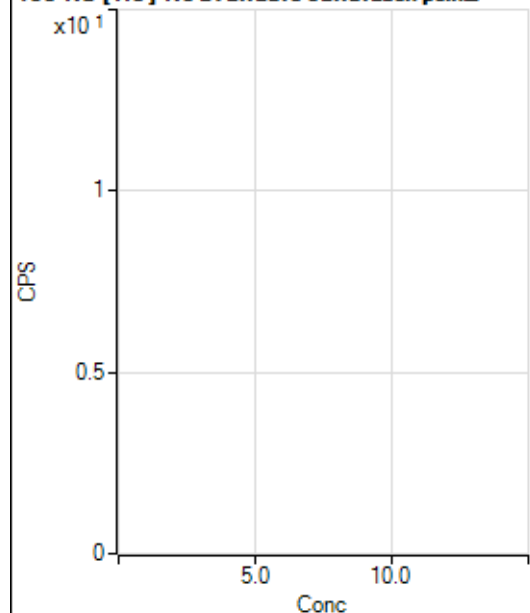
$$BEC = 0.0426$$

Weight: <None>

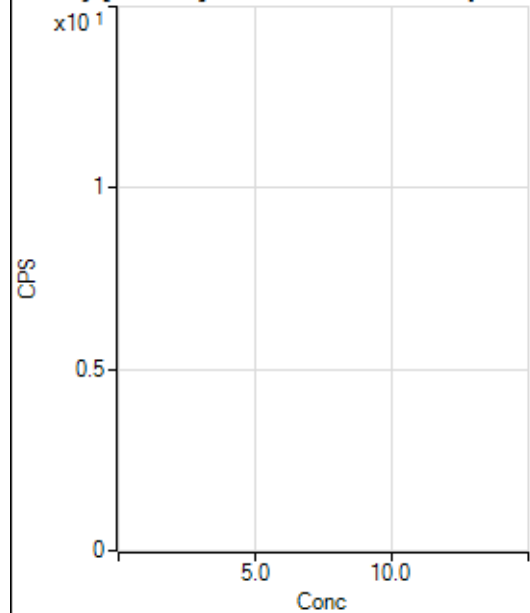
Min Conc: 0



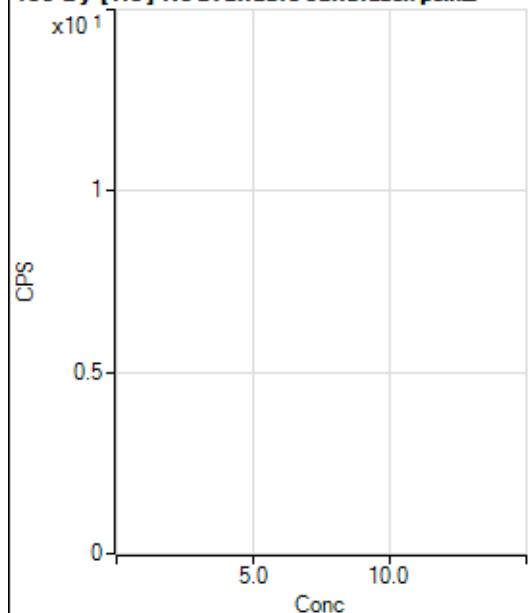
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2.22		P	173.2
2	☐			4.45		P	86.6
3	☐			13.34		P	86.6
4	☐			28.89		P	53.3
5	☐			40.00		P	16.7
6	☐			77.78		P	32.5
7	☐			120.00		P	9.6
8	☐			22.22		P	34.7

150 Nd [He] No available calibration points

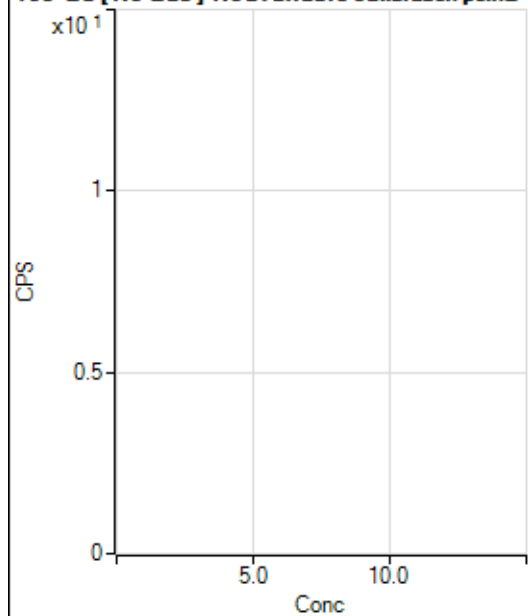
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			0.00		P	
2	☐			0.00		P	
3	☐			0.00		P	
4	☐			2.22		P	173.2
5	☐			3.33		P	100.1
6	☐			5.55		P	124.9
7	☐			8.89		P	114.5
8	☐			10.00		P	33.3

156 Dy [No Gas] No available calibration points

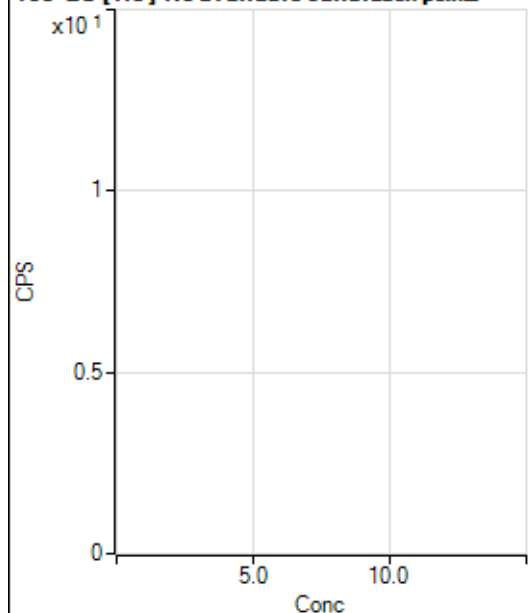
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			5.55		P	86.6
2	☐			5.55		P	86.6
3	☐			16.67		P	50.0
4	☐			22.22		P	43.3
5	☐			30.56		P	41.7
6	☐			50.00		P	76.4
7	☐			80.56		P	6.0
8	☐			225.01		P	18.5

156 Dy [He] No available calibration points

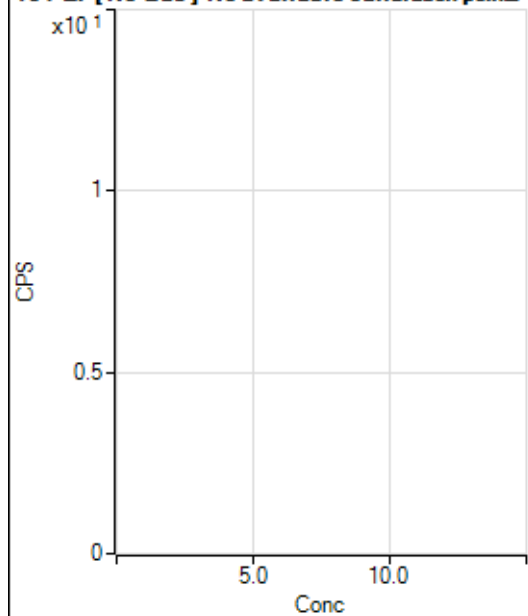
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1.11		P	173.2
2	☐			0.00		P	
3	☐			0.00		P	
4	☐			11.11		P	62.5
5	☐			8.89		P	94.4
6	☐			12.22		P	63.0
7	☐			36.67		P	9.1
8	☐			105.56		P	9.6

160 Gd [No Gas] Noavailable calibration poin_

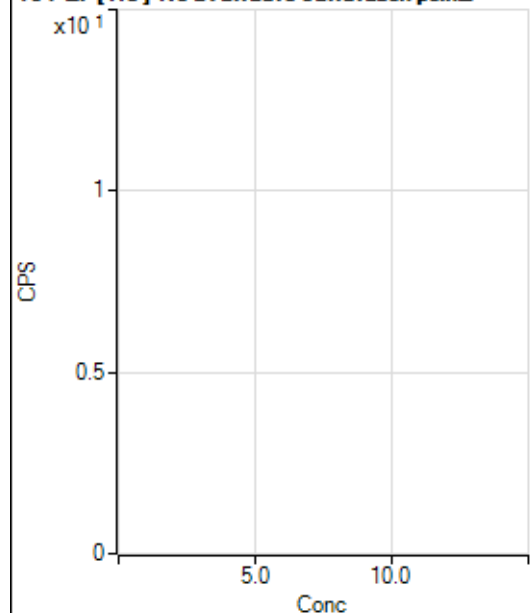
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			47.22		P	10.2
2	☐			5.55		P	86.6
3	☐			30.56		P	41.7
4	☐			44.44		P	28.6
5	☐			25.00		P	66.7
6	☐			77.78		P	16.4
7	☐			105.56		P	25.4
8	☐			222.23		P	31.5

160 Gd [He] No available calibration points

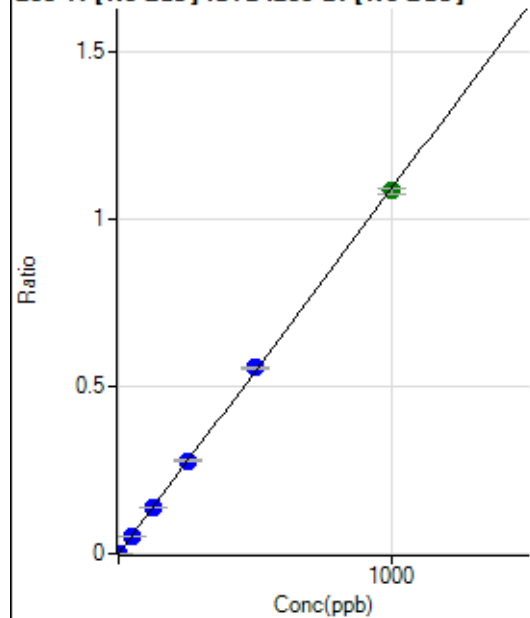
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			8.89		P	43.3
2	☐			5.55		P	69.3
3	☐			12.22		P	63.0
4	☐			7.78		P	24.7
5	☐			15.55		P	24.8
6	☐			23.33		P	28.6
7	☐			36.67		P	27.3
8	☐			136.67		P	6.5

164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			13.89		P	91.6
2	☐			11.11		P	43.3
3	☐			16.67		P	50.0
4	☐			8.33		P	100.0
5	☐			27.78		P	62.5
6	☐			27.78		P	62.5
7	☐			47.22		P	27.0
8	☐			38.89		P	32.7

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			7.78		P	24.7
2	☐			14.45		P	48.0
3	☐			8.89		P	86.6
4	☐			8.89		P	94.4
5	☐			7.78		P	107.8
6	☐			8.89		P	94.4
7	☐			16.67		P	80.0
8	☐			21.11		P	48.2

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	194.45	0.0001	P	2.0
2	☐	1.000	0.945	2880.95	0.0011	P	3.2
3	☐	50.000	49.569	144790.08	0.0541	P	0.8
4	☐	125.000	126.684	367150.83	0.1382	P	0.6
5	☐	250.000	254.702	742056.64	0.2779	P	0.8
6	☐	500.000	509.508	1472856.24	0.5558	P	1.4
7	☐	1000.000	993.881	2858448.94	1.0841	A	1.6
8	☐			1194.54	0.0005	P	6.3

$$y = 0.0011 * x + 7.4343E-005$$

$$R = 0.9999$$

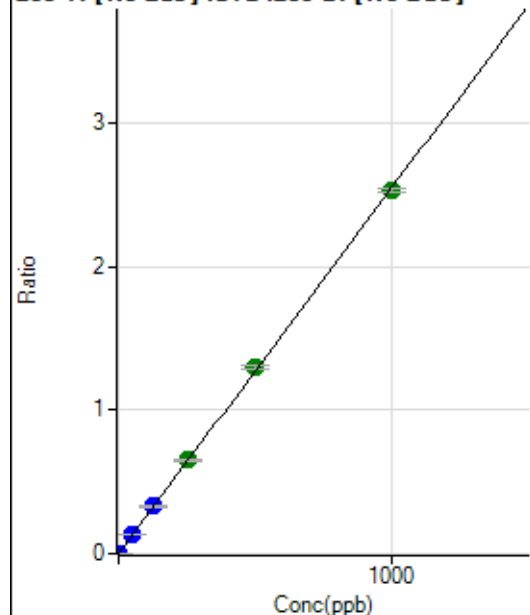
$$DL = 0.004098$$

$$BEC = 0.06816$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	527.80	0.0002	P	12.9
2	☐	1.000	1.002	7168.84	0.0027	P	2.0
3	☐	50.000	50.975	347205.05	0.1298	P	0.9
4	☐	125.000	129.525	875189.85	0.3296	P	1.6
5	☐	250.000	255.631	1736333.29	0.6503	A	2.0
6	☐	500.000	510.628	3441560.93	1.2987	A	1.9
7	☐	1000.000	992.664	6656441.04	2.5245	A	1.2
8	☐			2967.10	0.0012	P	16.9

$$y = 0.0025 * x + 2.0172E-004$$

$$R = 0.9999$$

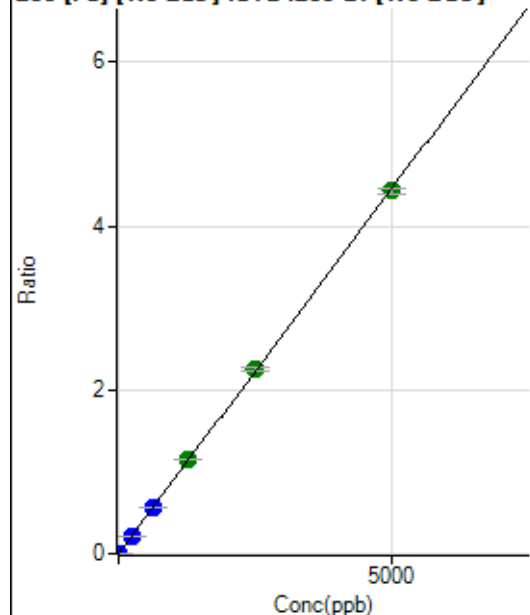
$$DL = 0.03079$$

$$BEC = 0.07933$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	305.56	0.0001	P	21.6
2	☐	1.000	0.936	2476.20	0.0009	P	1.4
3	☐	250.000	247.445	589587.10	0.2205	P	0.1
4	☐	625.000	632.484	1495915.08	0.5633	P	1.4
5	☐	1250.000	1281.629	3048015.75	1.1413	A	0.4
6	☐	2500.000	2535.308	5982840.29	2.2577	A	2.0
7	☐	5000.000	4973.631	11677940.77	4.4289	A	1.3
8	☐			13883.56	0.0056	P	1.5

$$y = 8.9045E-004 * x + 1.1676E-004$$

$$R = 0.9999$$

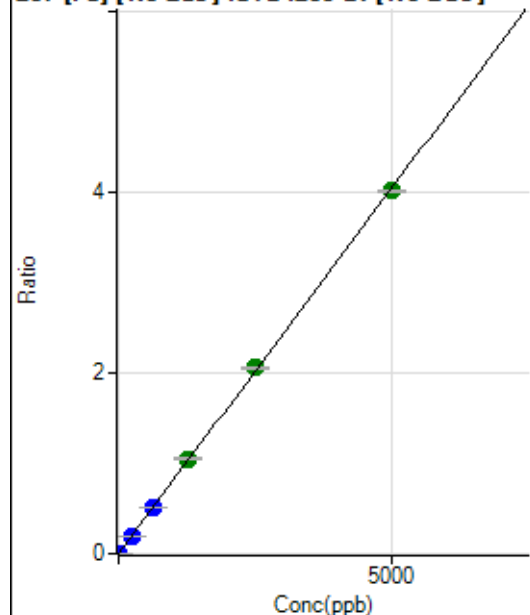
$$DL = 0.08488$$

$$BEC = 0.1311$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	262.97	0.0001	P	7.1
2	☐	1.000	0.955	2272.46	0.0009	P	2.1
3	☐	250.000	244.650	528678.79	0.1977	P	0.6
4	☐	625.000	625.110	1340910.45	0.5049	P	1.2
5	☐	1250.000	1297.193	2797912.45	1.0477	A	0.9
6	☐	2500.000	2542.586	5442034.15	2.0535	A	1.2
7	☐	5000.000	4967.163	10577683.22	4.0116	A	0.5
8	☐			12721.25	0.0052	P	3.9

$$y = 8.0761\text{E-}004 * x + 1.0056\text{E-}004$$

$$R = 0.9999$$

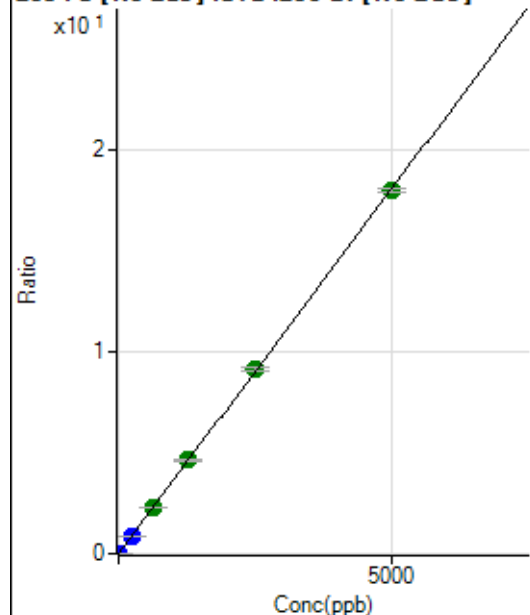
$$DL = 0.02644$$

$$BEC = 0.1245$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	1229.67	0.0005	P	7.2
2	☐	1.000	0.935	10025.76	0.0038	P	1.8
3	☐	250.000	247.416	2390495.10	0.8938	P	0.0
4	☐	625.000	637.231	6111431.18	2.3014	A	1.3
5	☐	1250.000	1281.612	12359133.32	4.6281	A	0.9
6	☐	2500.000	2530.339	24213705.86	9.1370	A	1.5
7	☐	5000.000	4975.528	47372286.13	17.9661	A	1.1
8	☐			56736.34	0.0230	P	0.8

$$y = 0.0036 * x + 4.7008\text{E-}004$$

$$R = 0.9999$$

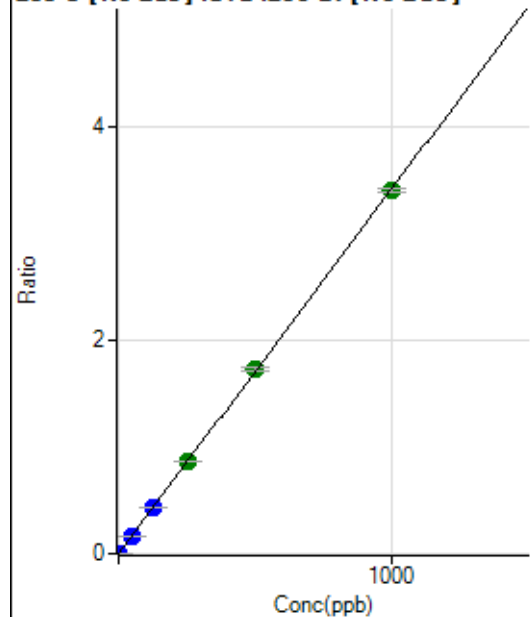
$$DL = 0.02825$$

$$BEC = 0.1302$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	5.55	0.0000	P	86.6
2	☐	1.000	0.908	8088.91	0.0031	P	0.4
3	☐	50.000	49.589	452765.90	0.1693	P	0.4
4	☐	125.000	126.337	1145398.22	0.4313	P	1.3
5	☐	250.000	251.900	2296585.45	0.8600	A	0.8
6	☐	500.000	508.274	4598309.83	1.7352	A	1.8
7	☐	1000.000	995.242	8958870.60	3.3977	A	1.1
8	☐			1097.31	0.0004	P	10.6

$$y = 0.0034 * x + 2.1290E-006$$

$$R = 0.9999$$

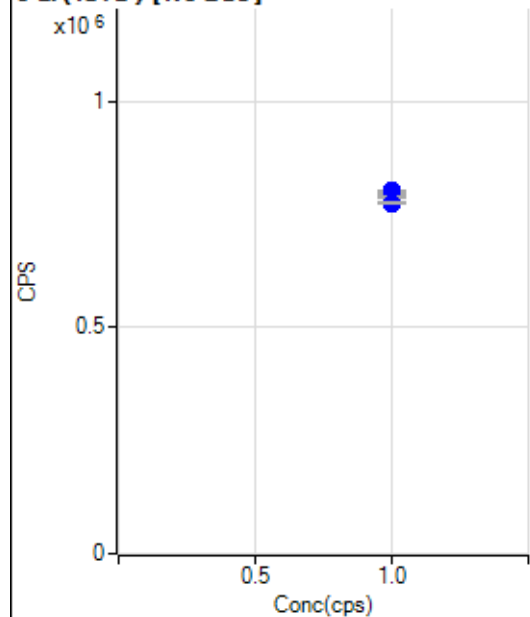
$$DL = 0.00162$$

$$BEC = 0.0006236$$

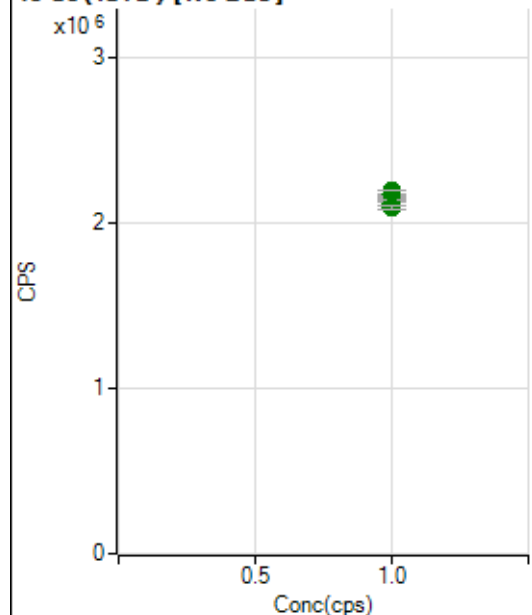
Weight: <None>

Min Conc: 0

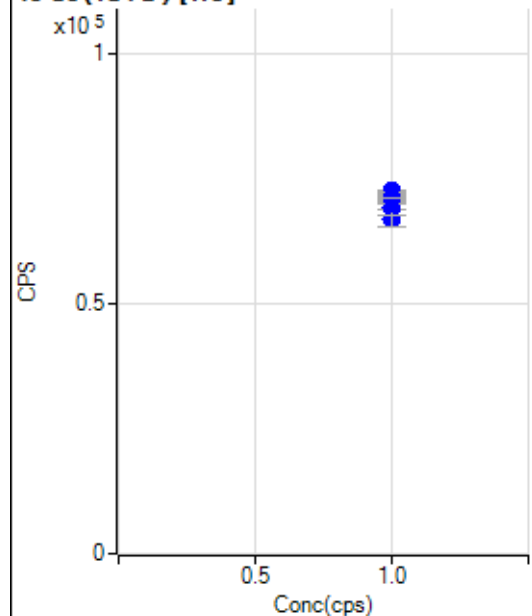
6 Li (ISTD) [No Gas]



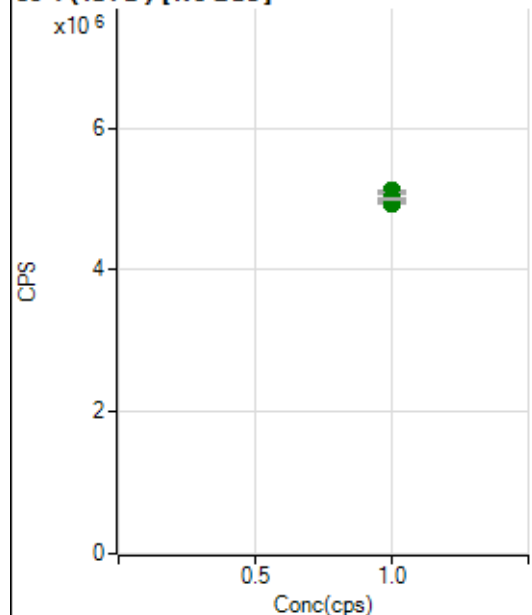
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		787609.68		P	0.4
2	☐	1.000		787598.23		P	0.1
3	☐	1.000		802227.44		P	0.4
4	☐	1.000		795133.07		P	0.2
5	☐	1.000		796779.25		P	0.7
6	☐	1.000		790818.46		P	0.3
7	☐	1.000		789799.03		P	0.5
8	☐	1.000		775431.26		P	0.7

45 Sc (ISTD) [No Gas]

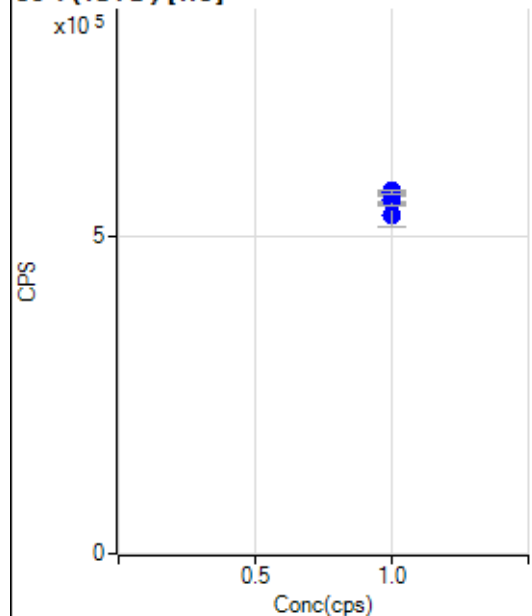
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2117763.81		A	0.7
2	☐	1.000		2119123.53		A	0.7
3	☐	1.000		2180417.59		A	0.2
4	☐	1.000		2149898.60		A	0.6
5	☐	1.000		2182382.66		A	1.4
6	☐	1.000		2196454.74		A	0.1
7	☐	1.000		2141260.72		A	0.3
8	☐	1.000		2098867.56		A	1.2

45 Sc (ISTD) [He]

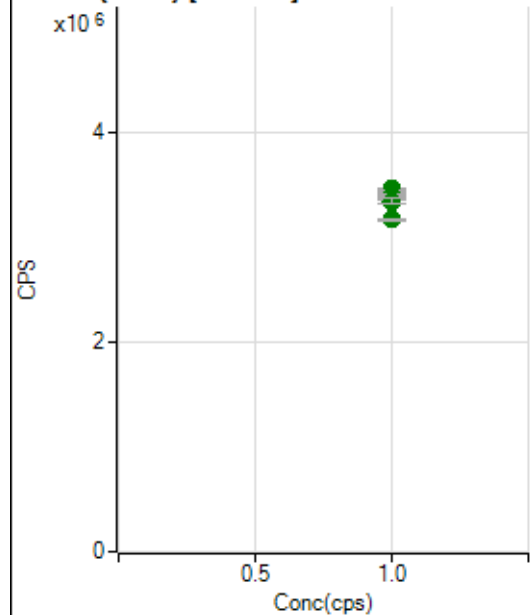
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		67210.38		P	5.0
2	☐	1.000		70520.71		P	1.1
3	☐	1.000		72030.28		P	1.0
4	☐	1.000		72678.04		P	0.8
5	☐	1.000		72271.57		P	0.3
6	☐	1.000		69482.73		P	4.5
7	☐	1.000		70253.87		P	0.2
8	☐	1.000		71143.66		P	0.2

89 Y (ISTD) [No Gas]

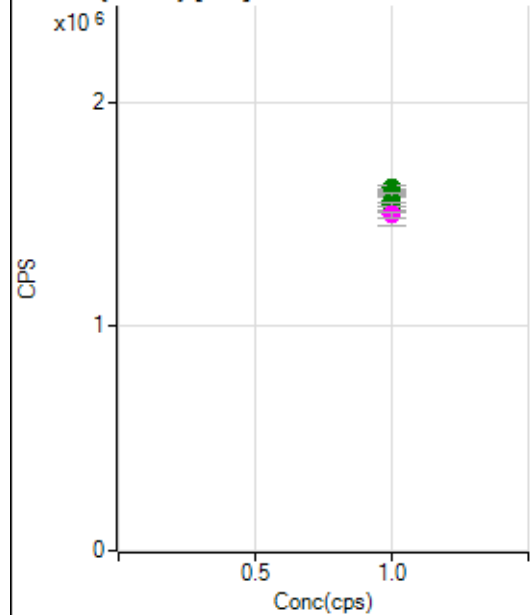
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4940503.61		A	0.2
2	☐	1.000		4956115.31		A	0.4
3	☐	1.000		5075308.36		A	0.4
4	☐	1.000		5077800.97		A	1.0
5	☐	1.000		5111408.71		A	0.5
6	☐	1.000		5096956.63		A	0.7
7	☐	1.000		5077015.24		A	0.9
8	☐	1.000		5001855.83		A	0.3

89 Y (ISTD) [He]

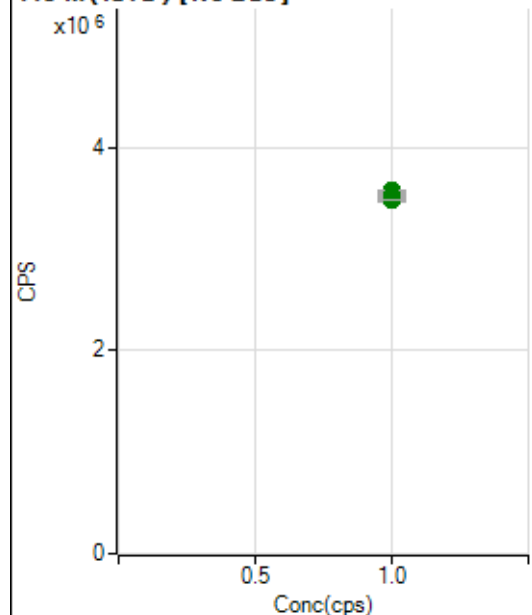
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		531843.49		P	6.2
2	☐	1.000		551976.52		P	0.4
3	☐	1.000		568991.69		P	0.6
4	☐	1.000		570258.49		P	0.7
5	☐	1.000		568032.52		P	0.4
6	☐	1.000		556283.44		P	3.4
7	☐	1.000		564020.43		P	0.7
8	☐	1.000		567952.75		P	0.9

103 Rh (ISTD) [No Gas]

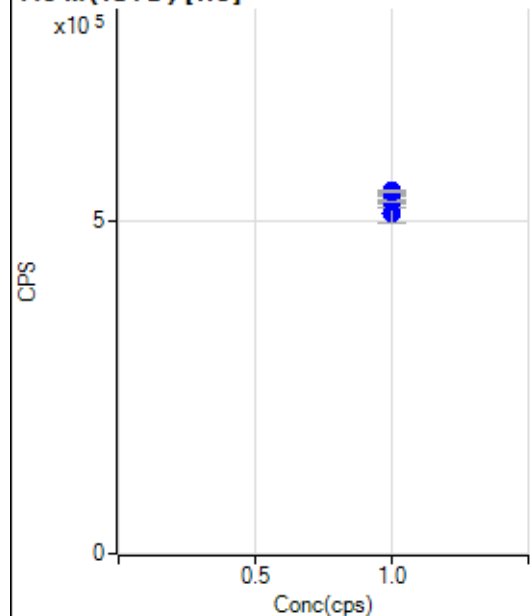
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3376781.02		A	0.4
2	☐	1.000		3386482.06		A	1.9
3	☐	1.000		3461354.03		A	0.4
4	☐	1.000		3441715.44		A	0.3
5	☐	1.000		3400906.93		A	1.2
6	☐	1.000		3401216.61		A	0.9
7	☐	1.000		3344834.62		A	1.4
8	☐	1.000		3171145.06		A	0.7

103 Rh (ISTD) [He]

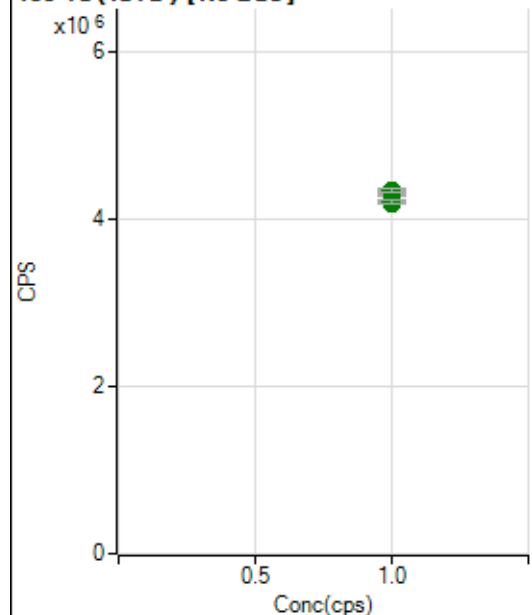
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1497151.17		A	6.8
2	☐	1.000		1561533.14		A	1.5
3	☐	1.000		1616273.38		A	1.2
4	☐	1.000		1589585.81		A	1.6
5	☐	1.000		1585905.60		A	0.3
6	☐	1.000		1556200.10		A	4.9
7	☐	1.000		1543377.48		A	1.1
8	☐	1.000		1496982.03		M	1.6

115 In (ISTD) [No Gas]

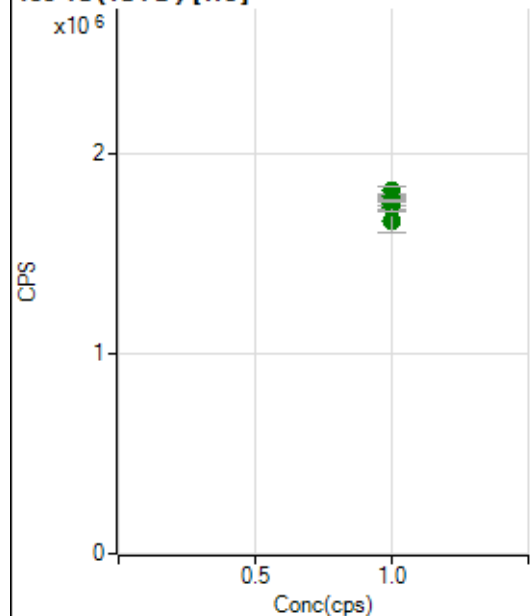
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3500073.39		A	0.9
2	☐	1.000		3500370.84		A	0.8
3	☐	1.000		3562296.67		A	0.4
4	☐	1.000		3549332.59		A	0.4
5	☐	1.000		3574078.90		A	0.6
6	☐	1.000		3529096.93		A	0.2
7	☐	1.000		3484038.91		A	1.4
8	☐	1.000		3482980.75		A	0.2

115 In (ISTD) [He]

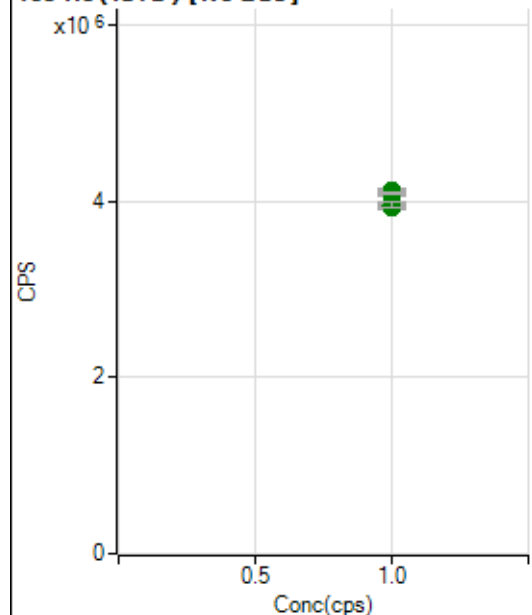
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		510989.29		P	5.5
2	☐	1.000		531398.03		P	0.3
3	☐	1.000		544623.13		P	0.5
4	☐	1.000		543043.35		P	1.0
5	☐	1.000		544279.25		P	0.7
6	☐	1.000		528624.24		P	3.0
7	☐	1.000		529518.88		P	0.1
8	☐	1.000		543002.47		P	0.6

159 Tb (ISTD) [No Gas]

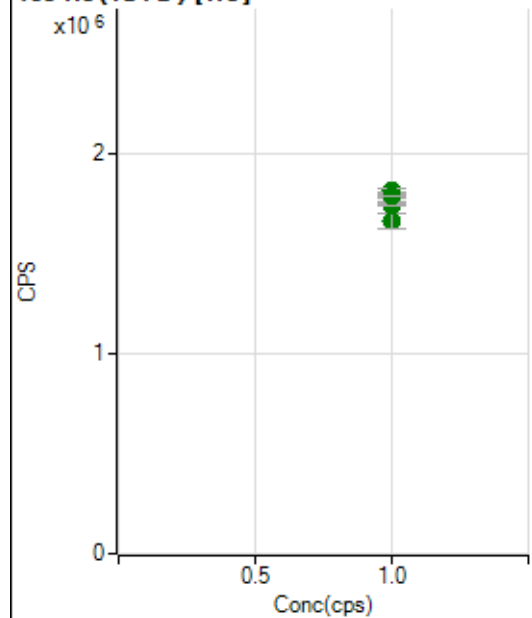
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4183687.65		A	0.4
2	☐	1.000		4188300.70		A	0.6
3	☐	1.000		4301787.78		A	0.1
4	☐	1.000		4277462.19		A	0.6
5	☐	1.000		4333886.18		A	0.7
6	☐	1.000		4338010.77		A	0.7
7	☐	1.000		4338215.81		A	1.0
8	☐	1.000		4210015.22		A	1.5

159 Tb (ISTD) [He]

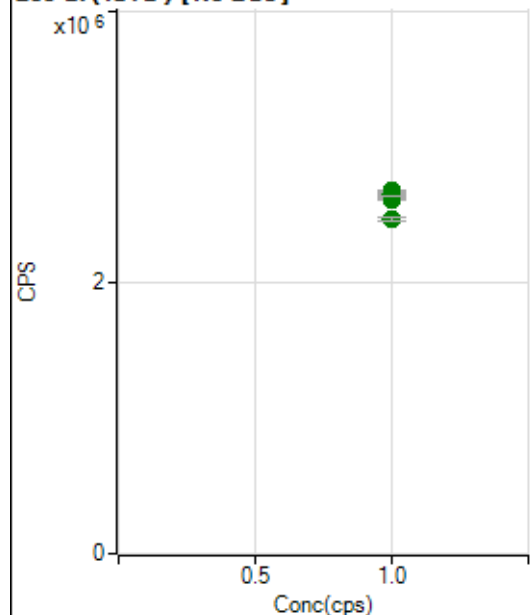
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1666697.94		A	6.8
2	☐	1.000		1735557.13		A	1.1
3	☐	1.000		1785806.50		A	0.3
4	☐	1.000		1765941.61		A	0.3
5	☐	1.000		1817955.62		A	2.5
6	☐	1.000		1752991.21		A	4.1
7	☐	1.000		1792531.12		A	1.4
8	☐	1.000		1772835.76		A	0.5

165 Ho (ISTD) [No Gas]

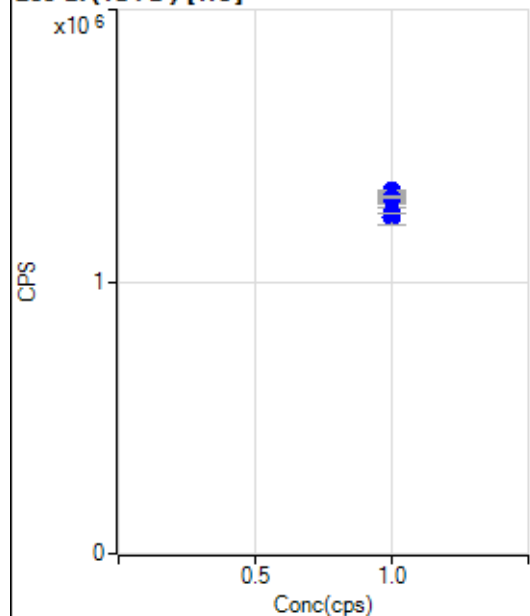
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3920841.62		A	0.1
2	☐	1.000		3959400.78		A	0.5
3	☐	1.000		4098056.56		A	0.1
4	☐	1.000		4061348.05		A	0.3
5	☐	1.000		4119772.79		A	1.2
6	☐	1.000		4106072.49		A	1.4
7	☐	1.000		4093105.21		A	0.2
8	☐	1.000		3962345.23		A	1.2

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1660989.58		A	5.0
2	☐	1.000		1738509.85		A	0.5
3	☐	1.000		1790663.25		A	1.5
4	☐	1.000		1792344.97		A	0.2
5	☐	1.000		1804338.11		A	0.4
6	☐	1.000		1787668.26		A	3.8
7	☐	1.000		1811236.41		A	1.4
8	☐	1.000		1787931.12		A	0.2

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2615424.77		A	0.5
2	☐	1.000		2606912.93		A	0.3
3	☐	1.000		2674407.84		A	0.3
4	☐	1.000		2655926.94		A	1.6
5	☐	1.000		2670588.76		A	1.0
6	☐	1.000		2650323.71		A	1.1
7	☐	1.000		2636786.83		A	0.2
8	☐	1.000		2464449.35		A	1.2

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1241403.97		P	5.1
2	☐	1.000		1300377.85		P	0.7
3	☐	1.000		1326964.83		P	0.6
4	☐	1.000		1334568.96		P	0.2
5	☐	1.000		1334954.86		P	0.3
6	☐	1.000		1305634.85		P	2.9
7	☐	1.000		1310518.18		P	0.7
8	☐	1.000		1254580.76		P	0.2

US EPA Tune Check Report

Operator Name Jaswal
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\P8042520-MS.b
Acq. Date-Time 2020-04-25 00:38:44
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		2520	25199.02			2.175	5.000
24		32225	322248.49			2.407	5.000
25		4416	44157.14			2.528	5.000
26		5184	51842.70			2.862	5.000
59		19237	192368.71			2.219	5.000
113		3352	33517.47			1.942	5.000
115		10277	102770.54			2.028	5.000
206		4054	40543.63			2.533	5.000
207		3386	33860.79			2.557	5.000
208		8341	83411.28			2.253	5.000
220		0	4.20			68.180	

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

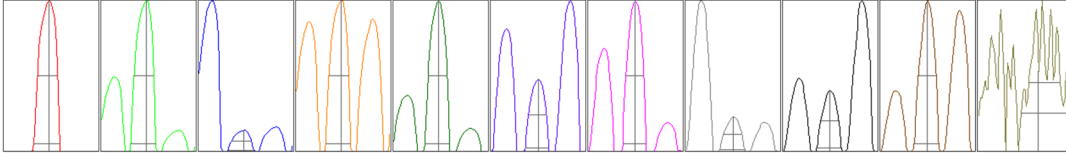
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	2424	2560	2537	2545	2534
24	30850	32563	32418	32583	32711
25	4219	4483	4461	4432	4483
26	4923	5283	5263	5215	5238
59	18496	19408	19595	19318	19368
113	3243	3396	3383	3397	3340
115	10030	10560	10390	10267	10138
206	3886	4150	4100	4101	4036
207	3239	3434	3454	3425	3378
208	8018	8490	8429	8424	8344

US EPA Tune Check Report

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

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	4161.18	8.95	8.90 - 9.10	
24	54829.75	23.95	23.90 - 24.10	
25	7409.87	24.95	24.90 - 25.10	
26	8594.97	25.95	25.90 - 26.10	
59	33685.43	58.95	58.90 - 59.10	
113	6275.88	113.05	112.90 - 113.10	
115	19277.58	115.00	114.90 - 115.10	
206	7617.38	206.05	205.90 - 206.10	
207	6385.78	207.00	206.90 - 207.10	
208	15845.69	208.00	207.90 - 208.10	
220	0.45	220.45	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.64	0.824	0.900	
24	0.64	0.788	0.900	
25	0.63	0.817	0.900	
26	0.64	0.788	0.900	
59	0.60	0.784	0.900	
113	0.56	0.735	0.900	
115	0.55	0.735	0.900	
206	0.56	0.792	0.900	
207	0.56	0.777	0.900	
208	0.55	0.776	0.900	
220	0.98	1.516		

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	11.2 V	Deflect	14.8 V
Extract 2	-240.0 V	Cell Entrance	-30 V	Plate Bias	-50 V
Omega Bias	-110 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	4.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	---	OctP RF	190 V		

QP Parameters

Mass Gain	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		4653	46534.32			0.890	
89		9397	93974.08			0.957	
205		9866	98662.16			1.514	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	4693	4609	4700	4644	4621
89	9413	9479	9486	9319	9290
205	9988	9906	10011	9761	9664

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	11.2 V	Deflect	3.8 V
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US EPA Tune Check Report

Extract 2	-240.0 V	Cell Entrance	-50 V	Plate Bias	-60 V
Omega Bias	-110 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