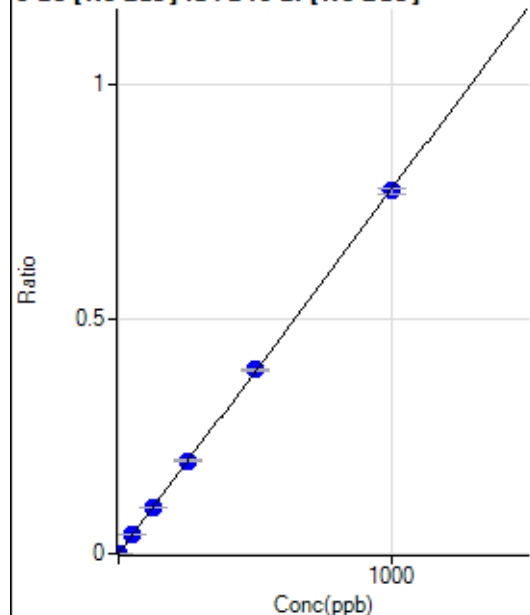


Batch Folder: D:\Agilent\ICPMH\1\DATA\P8081920.b\
Analysis File: P8081920.batch.bin
DA Date-Time: 2020-08-20 11:55:49
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	005CALB.d	S00	2020-08-19 09:46:50
2	006CALS.d	S02	2020-08-19 09:49:58
3	007CALS.d	S03	2020-08-19 09:53:03
4	008CALS.d	S04	2020-08-19 09:56:09
5	009CALS.d	S05	2020-08-19 09:59:10
6	010CALS.d	S06	2020-08-19 10:02:10
7	011CALS.d	S07	2020-08-19 10:05:08
8	012CALS.d	S08	2020-08-19 10:08:09

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	37.32	0.0000	P	29.2
2	☐	1.000	0.915	828.53	0.0007	P	3.6
3	☐	50.000	52.927	45422.43	0.0412	P	2.2
4	☐	125.000	128.272	112679.20	0.0997	P	0.7
5	☐	250.000	255.100	225674.91	0.1983	P	1.7
6	☐	500.000	504.583	445169.98	0.3921	P	1.6
7	☐	1000.000	995.878	872349.31	0.7738	P	1.9
8	☐			331.27	0.0003	P	5.2

$$y = 7.7702\text{E-}004 * x + 3.3268\text{E-}005$$

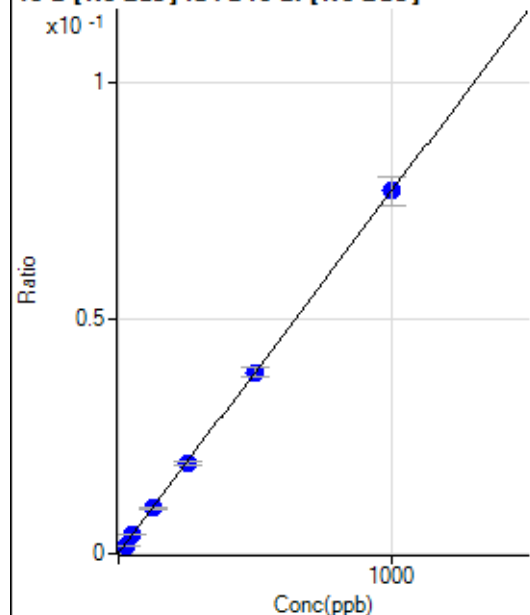
$$R = 1.0000$$

$$DL = 0.03753$$

$$BEC = 0.04282$$

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	135.31	0.0001	P	14.9
2	☐	25.000	21.349	1961.75	0.0018	P	8.5
3	☐	50.000	50.892	4451.81	0.0040	P	6.8
4	☐	125.000	124.378	10945.93	0.0097	P	6.4
5	☐	250.000	248.371	21879.24	0.0192	P	5.6
6	☐	500.000	499.836	43778.71	0.0386	P	5.2
7	☐	1000.000	1000.614	86828.49	0.0771	P	8.2
8	☐			6674.88	0.0058	P	12.2

$$y = 7.6887\text{E-}005 * x + 1.2093\text{E-}004$$

$$R = 1.0000$$

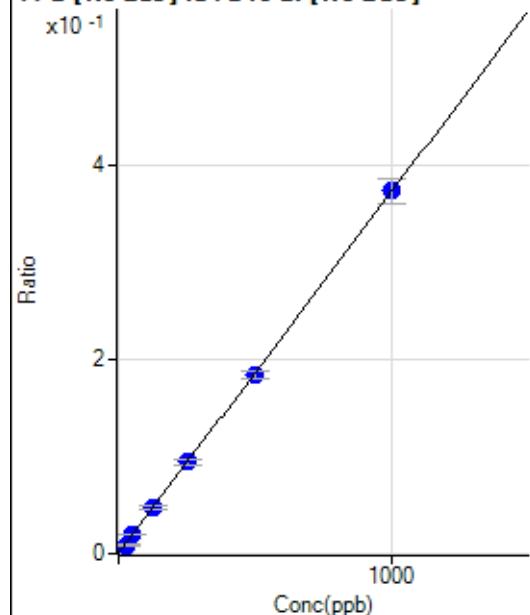
$$DL = 0.704$$

$$BEC = 1.573$$

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	465.25	0.0004	P	5.9
2	☐	25.000	22.047	9610.61	0.0086	P	8.3
3	☐	50.000	51.826	21771.75	0.0197	P	5.6
4	☐	125.000	126.145	53590.45	0.0474	P	5.0
5	☐	250.000	251.686	107228.45	0.0942	P	5.1
6	☐	500.000	494.036	209530.56	0.1845	P	4.4
7	☐	1000.000	1002.400	421388.63	0.3739	P	6.8
8	☐			31697.50	0.0274	P	15.1

$$y = 3.7260\text{E-}004 * x + 4.1585\text{E-}004$$

$$R = 1.0000$$

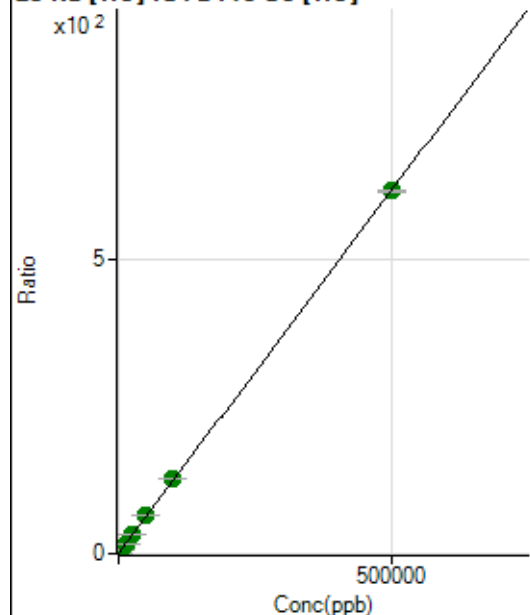
$$DL = 0.1971$$

$$BEC = 1.116$$

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	82198.21	0.5034	P	1.5
2	☐	500.000	481.602	177073.24	1.0964	P	1.4
3	☐	5000.000	5290.061	1153900.77	7.0179	A	1.4
4	☐	12500.000	13162.447	2767185.13	16.7125	A	1.0
5	☐	25000.000	26367.145	5410270.39	32.9738	A	1.5
6	☐	50000.000	51721.031	10690620.29	64.1964	A	0.8
7	☐	100000.00	102244.16	20895615.74	126.4142	A	0.9
8	☐	500000.00	499291.26	102166571.0	615.3668	A	0.6

$$y = 0.0012 * x + 0.5034$$

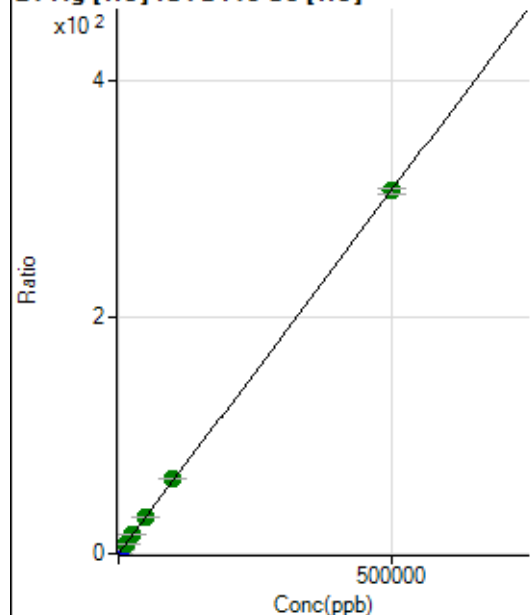
$$R = 1.0000$$

$$DL = 18.94$$

$$BEC = 408.7$$

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	680.59	0.0042	P	11.2
2	☐	500.000	486.939	49069.18	0.3038	P	1.8
3	☐	5000.000	5279.868	534856.50	3.2528	P	0.8
4	☐	12500.000	13332.956	1359023.88	8.2078	A	0.9
5	☐	25000.000	26623.729	2688392.27	16.3855	A	1.7
6	☐	50000.000	51183.837	5244994.91	31.4971	A	1.3
7	☐	100000.00	102301.44	10404695.54	62.9493	A	0.8
8	☐	500000.00	499316.53	51007998.36	307.2289	A	1.4

$$y = 6.1529\text{E-}004 * x + 0.0042$$

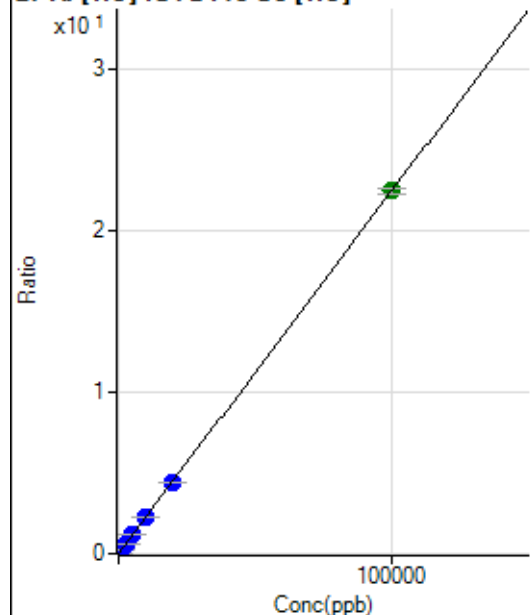
$$R = 1.0000$$

$$DL = 2.277$$

$$BEC = 6.777$$

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	1182.49	0.0072	P	1.9
2	☐	20.000	18.904	1855.09	0.0115	P	3.7
3	☐	1000.000	1006.994	38359.24	0.2333	P	1.2
4	☐	2500.000	2500.224	94132.33	0.5685	P	0.8
5	☐	5000.000	5064.110	187712.42	1.1440	P	1.4
6	☐	10000.000	9898.514	371241.10	2.2293	P	0.2
7	☐	20000.000	19634.378	729678.42	4.4148	P	0.7
8	☐	100000.00	100079.99	3731221.21	22.4735	A	1.4

$$y = 2.2448\text{E-}004 * x + 0.0072$$

$$R = 1.0000$$

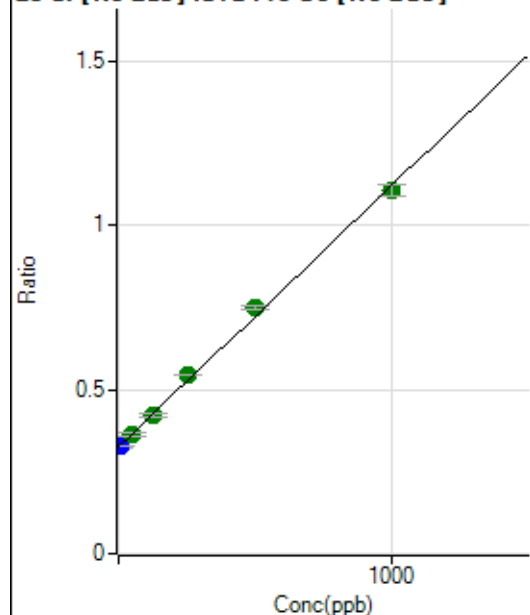
$$DL = 1.829$$

$$BEC = 32.25$$

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	817507.71	0.3257	P	2.4
2	☐	10.000	5.131	838716.49	0.3297	P	0.2
3	☐	50.000	47.378	914818.43	0.3634	A	2.8
4	☐	125.000	121.687	1094087.28	0.4225	A	2.8
5	☐	250.000	275.128	1400255.29	0.5446	A	0.9
6	☐	500.000	530.403	1928654.51	0.7477	A	1.6
7	☐	1000.000	979.110	2880115.21	1.1047	A	3.2
8	☐			926856.48	0.3463	A	1.3

$$y = 7.9565E-004 * x + 0.3257$$

R = 0.9988

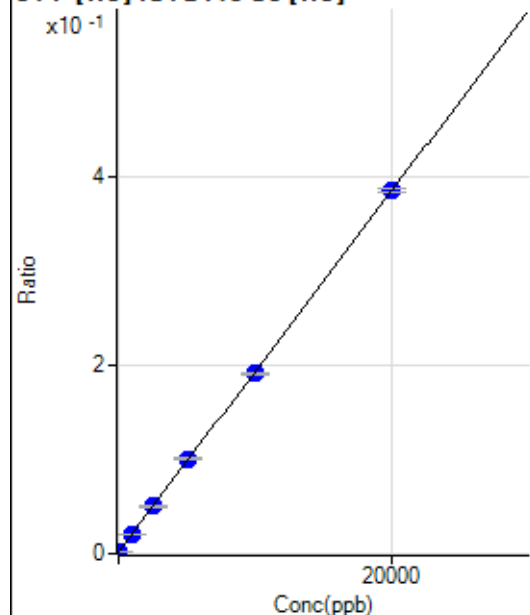
DL = 29.47

BEC = 409.3

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	-6.923	313.90	0.0019	P	20.1
2	☐	0.000	6.923	352.79	0.0022	P	24.5
3	☐	1000.000	987.896	3447.73	0.0210	P	4.0
4	☐	2500.000	2548.788	8419.31	0.0508	P	3.4
5	☐	5000.000	5130.067	16451.40	0.1003	P	2.2
6	☐	10000.000	9903.677	31916.27	0.1917	P	1.2
7	☐	20000.000	20010.151	63656.52	0.3851	P	1.0
8	☐			433.36	0.0026	P	21.0

$$y = 1.9145E-005 * x + 0.0021$$

R = 1.0000

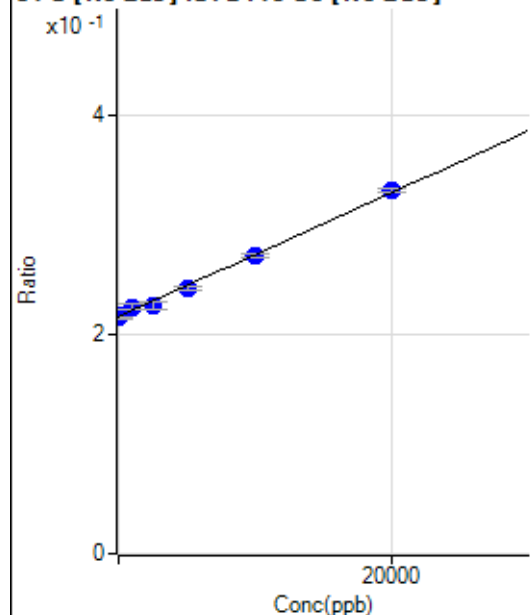
DL = 72.19

BEC = 107.2

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	183.321	546603.91	0.2177	P	1.8
2	☐	0.000	-183.321	548520.93	0.2156	P	0.7
3	☐	1000.000	1500.611	566952.10	0.2252	P	2.5
4	☐	2500.000	1740.571	586678.94	0.2265	P	2.4
5	☐	5000.000	4540.630	623191.63	0.2424	P	0.9
6	☐	10000.000	9826.431	702225.26	0.2723	P	1.4
7	☐	20000.000	20271.525	863866.73	0.3313	P	1.1
8	☐			529381.43	0.1978	P	0.6

$$y = 5.6547\text{E-}006 * x + 0.2167$$

$$R = 0.9983$$

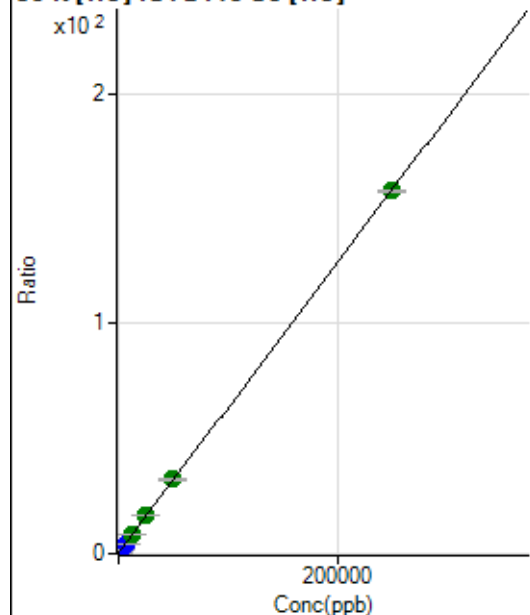
$$DL = 1445$$

$$BEC = 3.832\text{E}+04$$

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	59944.66	0.3670	P	2.0
2	☐	500.000	485.066	108579.40	0.6723	P	1.6
3	☐	2500.000	2641.107	333686.10	2.0294	P	0.9
4	☐	6250.000	6549.155	743302.95	4.4892	P	0.7
5	☐	12500.000	13197.811	1423186.14	8.6740	A	1.3
6	☐	25000.000	25416.993	2725311.24	16.3650	A	0.7
7	☐	50000.000	50720.679	5337564.05	32.2918	A	0.9
8	☐	250000.00	249770.41	26161536.18	157.5782	A	0.8

$$y = 6.2942\text{E-}004 * x + 0.3670$$

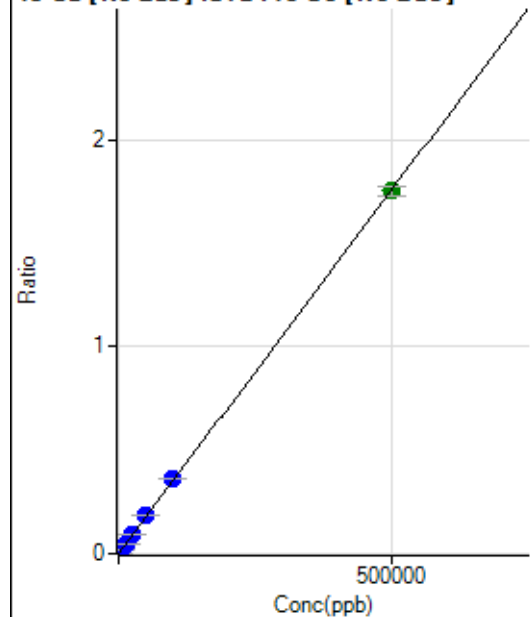
$$R = 1.0000$$

$$DL = 34.33$$

$$BEC = 583.1$$

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	611.14	0.0002	P	12.8
2	☐	500.000	479.692	4900.98	0.0019	P	5.1
3	☐	5000.000	5357.215	47953.14	0.0190	P	1.7
4	☐	12500.000	12934.773	118151.22	0.0456	P	3.8
5	☐	25000.000	26374.683	238578.96	0.0928	P	1.4
6	☐	50000.000	52307.142	474032.81	0.1838	P	1.3
7	☐	100000.00	103348.98	946127.78	0.3629	P	1.2
8	☐	500000.00	499016.33	4685519.55	1.7511	A	2.6

$$y = 3.5087\text{E-}006 * x + 2.4354\text{E-}004$$

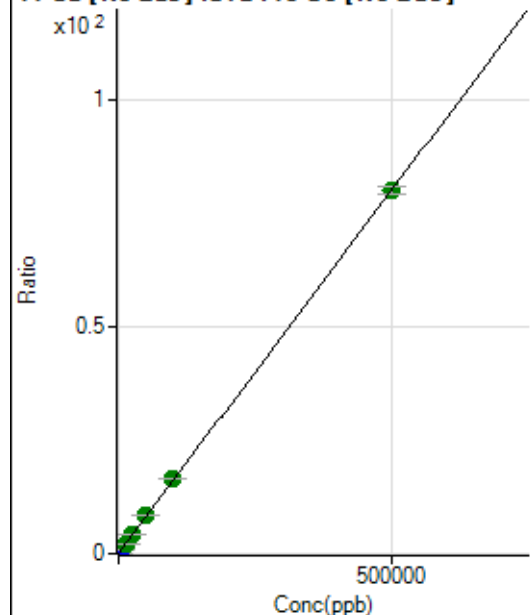
$$R = 1.0000$$

$$DL = 26.74$$

$$BEC = 69.41$$

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	144956.91	0.0577	P	2.7
2	☐	500.000	470.315	337965.68	0.1329	P	2.3
3	☐	5000.000	5411.732	2322259.05	0.9222	P	1.6
4	☐	12500.000	12872.237	5473738.23	2.1139	A	3.6
5	☐	25000.000	26187.726	10904096.32	4.2408	A	1.7
6	☐	50000.000	51823.367	21500804.76	8.3357	A	1.4
7	☐	100000.00	102226.10	42727239.56	16.3867	A	1.2
8	☐	500000.00	499299.66	213561216.5	79.8125	A	2.2

$$y = 1.5973\text{E-}004 * x + 0.0577$$

$$R = 1.0000$$

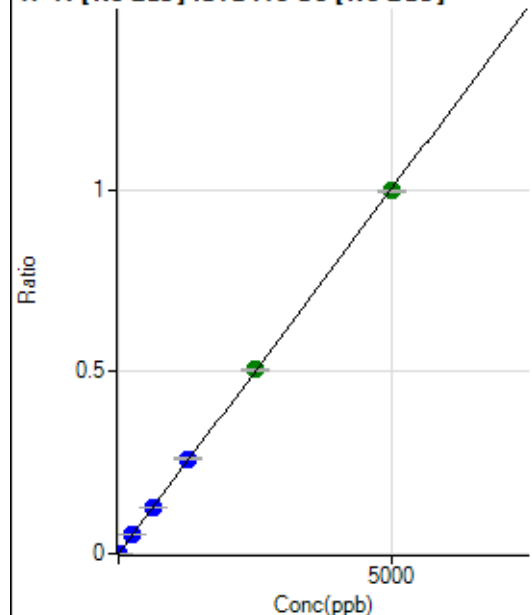
$$DL = 29.05$$

$$BEC = 361.5$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	702.81	0.0003	P	12.5
2	☐	5.000	5.044	3286.59	0.0013	P	4.3
3	☐	250.000	264.353	134252.63	0.0533	P	1.8
4	☐	625.000	635.693	331066.96	0.1278	P	1.6
5	☐	1250.000	1303.008	672883.82	0.2617	P	1.8
6	☐	2500.000	2523.141	1306389.39	0.5065	A	1.3
7	☐	5000.000	4973.123	2602192.07	0.9980	A	0.7
8	☐			1163.97	0.0004	P	5.7

$$y = 2.0062\text{E-}004 * x + 2.8030\text{E-}004$$

$$R = 0.9999$$

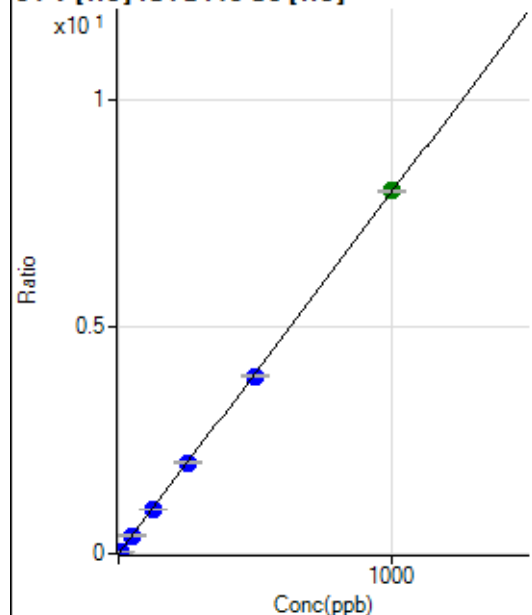
$$DL = 0.523$$

$$BEC = 1.397$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	28.89	0.0002	P	23.8
2	☐	5.000	4.663	6031.32	0.0374	P	3.3
3	☐	50.000	50.295	65955.48	0.4011	P	1.9
4	☐	125.000	124.611	164517.30	0.9936	P	0.2
5	☐	250.000	251.649	329199.32	2.0063	P	0.9
6	☐	500.000	491.143	652053.60	3.9156	P	0.7
7	☐	1000.000	1004.052	1323106.58	8.0046	A	0.7
8	☐			213.34	0.0013	P	0.2

$$y = 0.0080 * x + 1.7683\text{E-}004$$

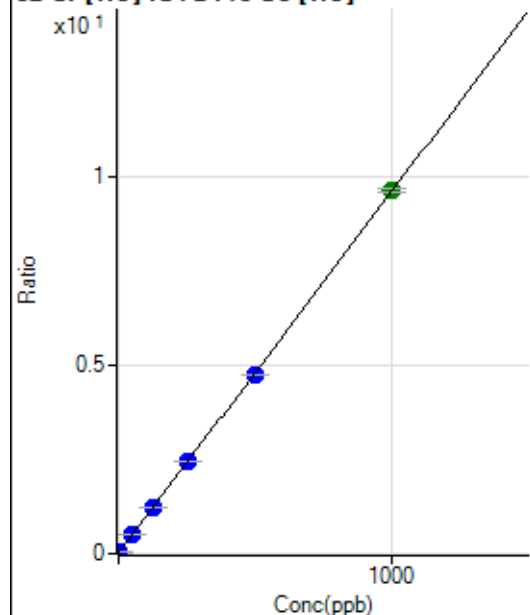
$$R = 0.9999$$

$$DL = 0.01585$$

$$BEC = 0.02218$$

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	1416.75	0.0087	P	3.1
2	☐	2.000	1.825	4230.67	0.0262	P	2.5
3	☐	50.000	50.592	81302.59	0.4944	P	0.8
4	☐	125.000	125.540	201025.90	1.2141	P	0.3
5	☐	250.000	252.987	399996.76	2.4378	P	0.7
6	☐	500.000	494.020	791382.57	4.7522	P	0.3
7	☐	1000.000	1002.146	1591804.63	9.6311	A	1.0
8	☐			7735.48	0.0466	P	3.6

$$y = 0.0096 * x + 0.0087$$

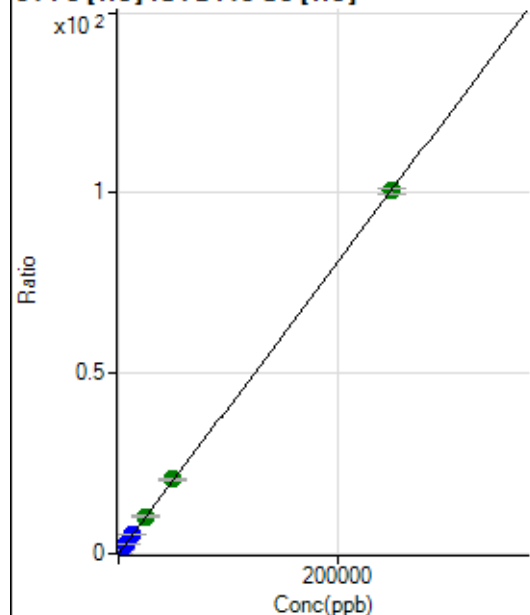
$$R = 1.0000$$

$$DL = 0.08371$$

$$BEC = 0.9035$$

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	785.22	0.0048	P	1.5
2	☐	50.000	51.040	4096.97	0.0254	P	1.6
3	☐	2500.000	2597.841	172858.65	1.0513	P	0.8
4	☐	6250.000	6416.448	428752.14	2.5894	P	0.4
5	☐	12500.000	13007.302	860492.82	5.2443	P	0.7
6	☐	25000.000	25790.022	1730719.73	10.3934	A	1.5
7	☐	50000.000	51236.867	3412625.02	20.6437	A	1.5
8	☐	250000.00	249643.11	16696467.73	100.5645	A	1.4

$$y = 4.0281E-004 * x + 0.0048$$

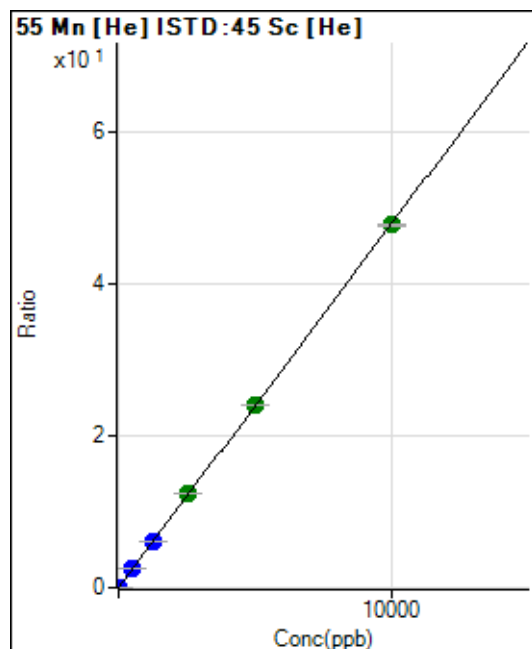
$$R = 1.0000$$

$$DL = 0.5354$$

$$BEC = 11.94$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	528.90	0.0032	P	6.7
2	☐	1.000	0.932	1244.51	0.0077	P	6.4
3	☐	500.000	510.581	403081.65	2.4514	P	1.2
4	☐	1250.000	1276.919	1014327.61	6.1260	P	0.5
5	☐	2500.000	2589.625	2038064.05	12.4203	A	1.6
6	☐	5000.000	5012.355	4002802.37	24.0371	A	0.7
7	☐	10000.000	9967.522	7900060.85	47.7967	A	0.4
8	☐			6174.72	0.0372	P	0.8

$$y = 0.0048 * x + 0.0032$$

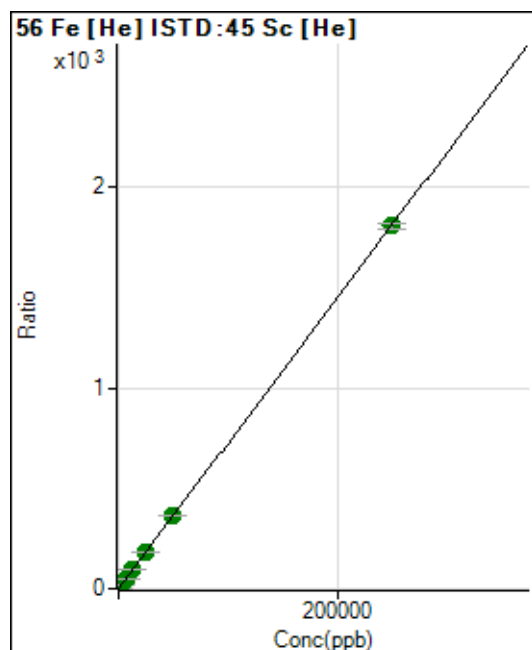
$$R = 1.0000$$

$$DL = 0.135$$

$$BEC = 0.6752$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	5282.53	0.0323	P	2.8
2	☐	50.000	48.054	61327.66	0.3797	P	1.2
3	☐	2500.000	2611.772	3109718.01	18.9127	A	1.2
4	☐	6250.000	6420.933	7691175.34	46.4488	A	1.6
5	☐	12500.000	12915.111	15324972.68	93.3948	A	0.3
6	☐	25000.000	25276.410	30434386.10	182.7538	A	1.0
7	☐	50000.000	50508.731	60357822.18	365.1566	A	0.4
8	☐	250000.00	249844.46	299859369.6	1,806.141	A	1.6

$$y = 0.0072 * x + 0.0323$$

$$R = 1.0000$$

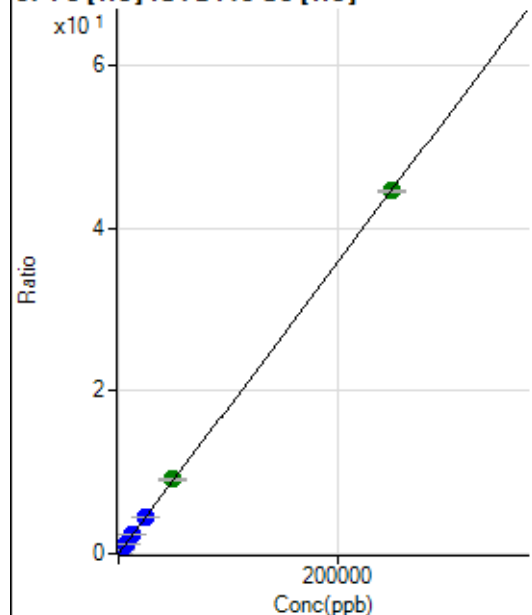
$$DL = 0.3697$$

$$BEC = 4.474$$

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	335.19	0.0021	P	8.1
2	☐	50.000	51.111	1805.84	0.0112	P	11.6
3	☐	2500.000	2574.319	76011.01	0.4623	P	0.8
4	☐	6250.000	6418.142	190329.09	1.1495	P	1.8
5	☐	12500.000	12878.394	378094.07	2.3044	P	1.4
6	☐	25000.000	25246.506	751968.25	4.5155	P	0.3
7	☐	50000.000	51217.044	1513711.26	9.1584	A	1.5
8	☐	250000.00	249708.07	7411956.70	44.6436	A	0.9

$$y = 1.7877\text{E-}004 * x + 0.0021$$

$$R = 1.0000$$

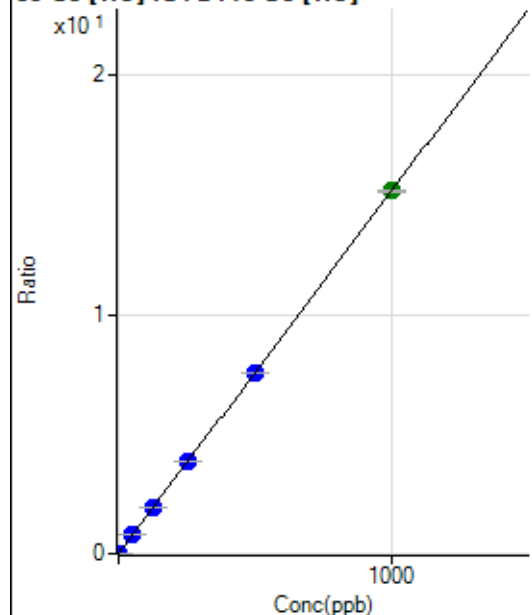
$$DL = 2.776$$

$$BEC = 11.48$$

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	47.78	0.0003	P	27.4
2	☐	1.000	0.896	2241.31	0.0139	P	2.3
3	☐	50.000	51.086	127397.59	0.7748	P	2.1
4	☐	125.000	126.378	317304.05	1.9164	P	0.3
5	☐	250.000	254.835	634018.72	3.8639	P	0.1
6	☐	500.000	496.820	1254415.68	7.5327	P	0.2
7	☐	1000.000	1000.155	2506392.95	15.1639	A	0.6
8	☐			4427.39	0.0267	P	1.7

$$y = 0.0152 * x + 2.9207\text{E-}004$$

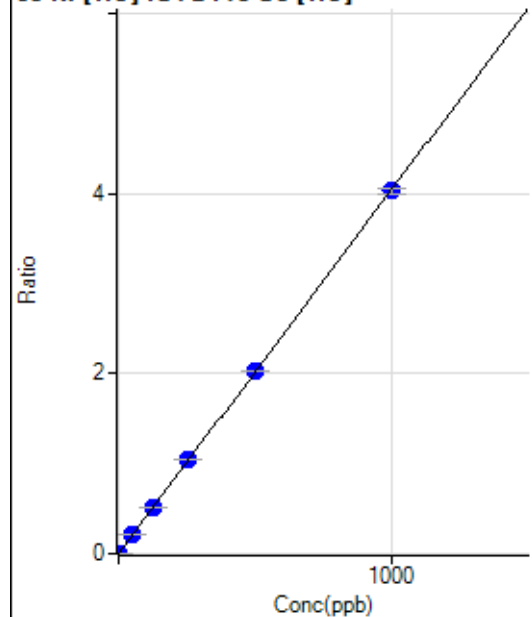
$$R = 1.0000$$

$$DL = 0.01584$$

$$BEC = 0.01926$$

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	104.45	0.0006	P	17.9
2	☐	1.000	1.003	757.81	0.0047	P	5.6
3	☐	50.000	51.711	34442.73	0.2095	P	1.8
4	☐	125.000	128.041	85721.73	0.5177	P	1.0
5	☐	250.000	259.430	172010.44	1.0483	P	0.9
6	☐	500.000	500.077	336417.75	2.0202	P	0.2
7	☐	1000.000	997.138	665626.98	4.0275	P	1.6
8	☐			2337.99	0.0141	P	1.6

$$y = 0.0040 * x + 6.3983E-004$$

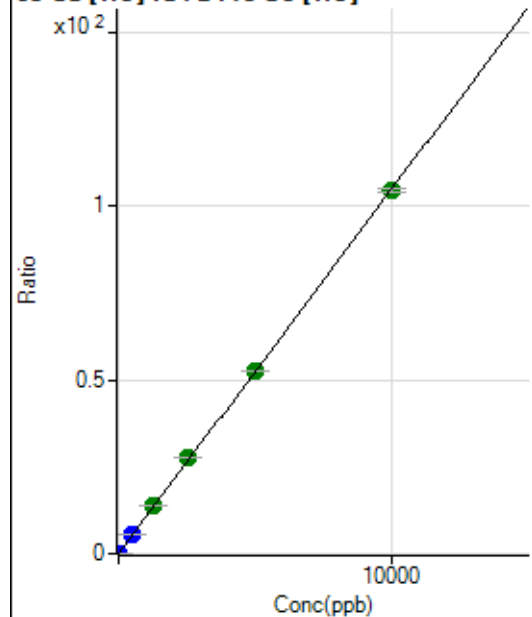
$$R = 1.0000$$

$$DL = 0.08489$$

$$BEC = 0.1584$$

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	657.80	0.0040	P	7.2
2	☐	2.000	2.002	4038.39	0.0250	P	2.8
3	☐	500.000	521.715	899773.33	5.4722	P	1.1
4	☐	1250.000	1301.636	2259573.84	13.6467	A	0.6
5	☐	2500.000	2617.614	4502521.50	27.4398	A	0.3
6	☐	5000.000	5010.614	8746409.38	52.5213	A	0.8
7	☐	10000.000	9957.750	17250086.69	104.3733	A	1.2
8	☐			6163.63	0.0371	P	5.6

$$y = 0.0105 * x + 0.0040$$

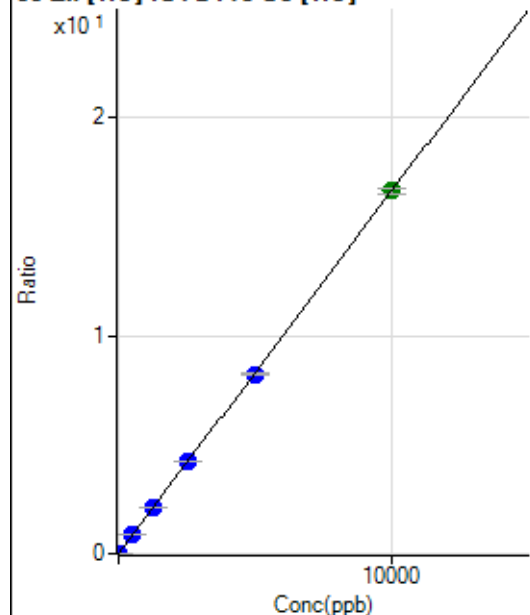
$$R = 0.9999$$

$$DL = 0.08275$$

$$BEC = 0.3842$$

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	340.56	0.0021	P	2.4
2	☐	2.000	1.676	787.01	0.0049	P	6.3
3	☐	500.000	512.676	140615.73	0.8552	P	1.2
4	☐	1250.000	1262.869	348292.99	2.1035	P	0.3
5	☐	2500.000	2555.378	698029.37	4.2543	P	1.2
6	☐	5000.000	4949.177	1371826.14	8.2376	P	0.5
7	☐	10000.000	10009.324	2753017.07	16.6578	A	1.7
8	☐			4148.60	0.0250	P	1.9

$$y = 0.0017 * x + 0.0021$$

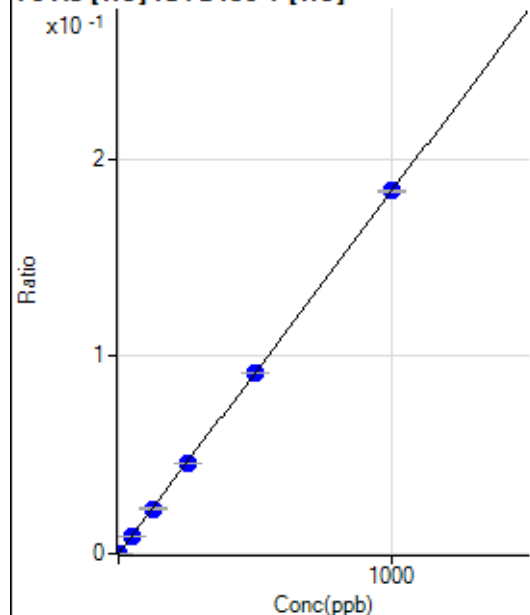
$$R = 1.0000$$

$$DL = 0.09137$$

$$BEC = 1.253$$

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	12.67	0.0000	P	23.8
2	☐	1.000	0.912	216.36	0.0002	P	5.7
3	☐	50.000	49.493	11258.95	0.0091	P	0.9
4	☐	125.000	124.201	28353.15	0.0228	P	1.8
5	☐	250.000	250.237	57109.29	0.0459	P	0.5
6	☐	500.000	497.322	113902.15	0.0912	P	0.1
7	☐	1000.000	1001.405	226576.38	0.1837	P	0.3
8	☐			90.01	0.0001	P	9.3

$$y = 1.8339E-004 * x + 1.0256E-005$$

$$R = 1.0000$$

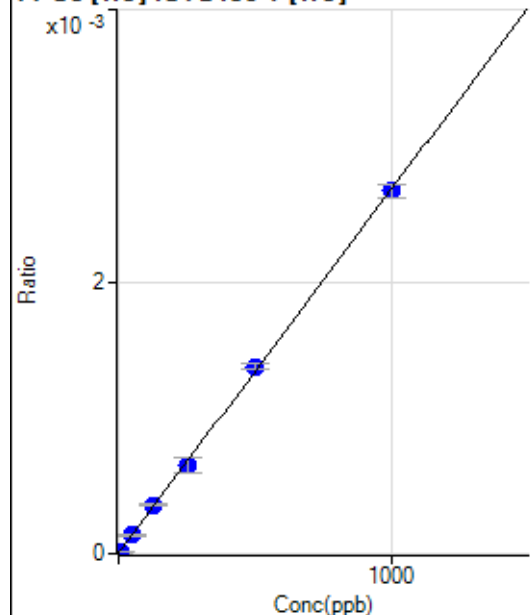
$$DL = 0.03994$$

$$BEC = 0.05592$$

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	5.56	0.0000	P	91.7
2	☐	5.000	4.796	21.11	0.0000	P	18.6
3	☐	50.000	49.948	171.11	0.0001	P	9.0
4	☐	125.000	131.457	443.35	0.0004	P	3.9
5	☐	250.000	241.965	811.14	0.0007	P	15.8
6	☐	500.000	511.850	1715.68	0.0014	P	2.7
7	☐	1000.000	995.280	3290.42	0.0027	P	4.0
8	☐			1.11	0.0000	P	173.

$$y = 2.6753\text{E-}006 * x + 4.4972\text{E-}006$$

$$R = 0.9998$$

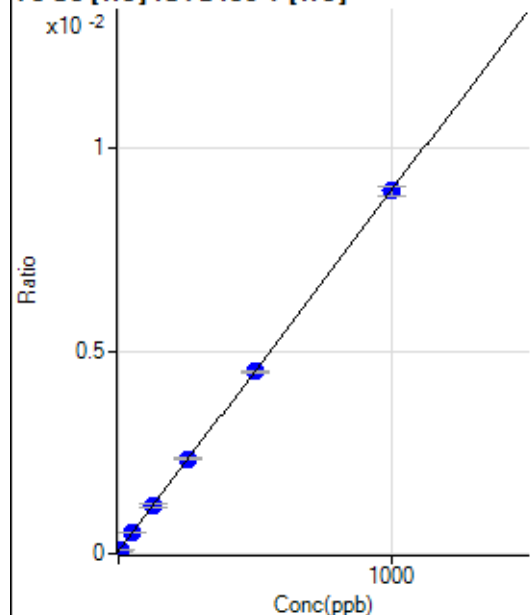
$$DL = 4.626$$

$$BEC = 1.681$$

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	82.34	0.0001	P	14.4
2	☐	5.000	3.913	123.68	0.0001	P	11.9
3	☐	50.000	49.540	628.41	0.0005	P	2.5
4	☐	125.000	126.065	1477.56	0.0012	P	4.2
5	☐	250.000	256.284	2918.27	0.0023	P	1.4
6	☐	500.000	497.728	5609.69	0.0045	P	0.7
7	☐	1000.000	999.460	11045.10	0.0090	P	2.4
8	☐			86.01	0.0001	P	9.7

$$y = 8.8918\text{E-}006 * x + 6.6708\text{E-}005$$

$$R = 1.0000$$

$$DL = 3.25$$

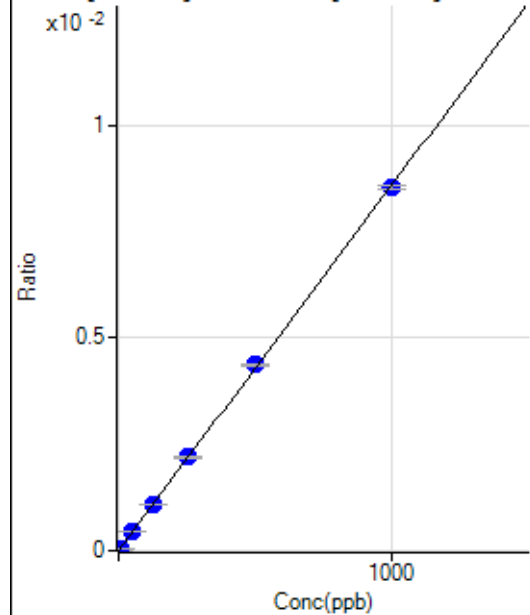
$$BEC = 7.502$$

Weight: <None>

Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2028.91		P	5.9
2	☐			1958.83		P	4.8
3	☐			1935.46		P	14.4
4	☐			2042.25		P	2.6
5	☐			1998.89		P	4.1
6	☐			2022.25		P	9.7
7	☐			2099.01		P	4.7
8	☐			2492.81		P	12.9

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	6.13	0.0000	P	49.9
2	☐	5.000	4.530	271.37	0.0000	P	8.0
3	☐	50.000	53.411	3083.42	0.0005	P	2.6
4	☐	125.000	127.115	7559.98	0.0011	P	1.4
5	☐	250.000	257.384	15305.23	0.0022	P	1.7
6	☐	500.000	508.510	30249.22	0.0044	P	0.3
7	☐	1000.000	993.466	59690.76	0.0085	P	1.1
8	☐			23.37	0.0000	P	94.1

$$y = 8.5854\text{E-}006 * x + 9.0198\text{E-}007$$

$$R = 0.9999$$

$$DL = 0.1573$$

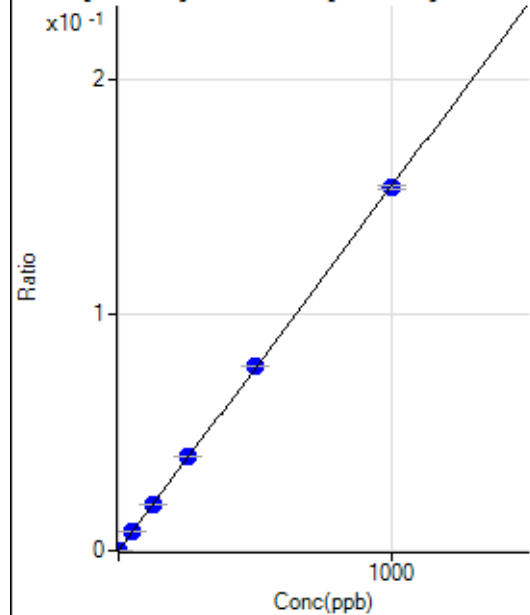
$$BEC = 0.1051$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			347.78		P	7.2
2	☐			353.34		P	6.6
3	☐			321.12		P	21.8
4	☐			367.79		P	13.6
5	☐			372.23		P	18.1
6	☐			352.23		P	15.4
7	☐			335.56		P	10.5
8	☐			351.12		P	9.0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	536.14	0.0001	P	14.1
2	☐	1.000	0.899	1486.24	0.0002	P	4.6
3	☐	50.000	51.792	54188.82	0.0081	P	2.1
4	☐	125.000	126.575	135791.67	0.0196	P	2.1
5	☐	250.000	256.914	275218.31	0.0397	P	0.9
6	☐	500.000	505.479	541226.11	0.0781	P	0.5
7	☐	1000.000	995.246	1075905.19	0.1538	P	0.9
8	☐			6548.95	0.0009	P	1.1

$$y = 1.5441\text{E-}004 * x + 7.9202\text{E-}005$$

$$R = 1.0000$$

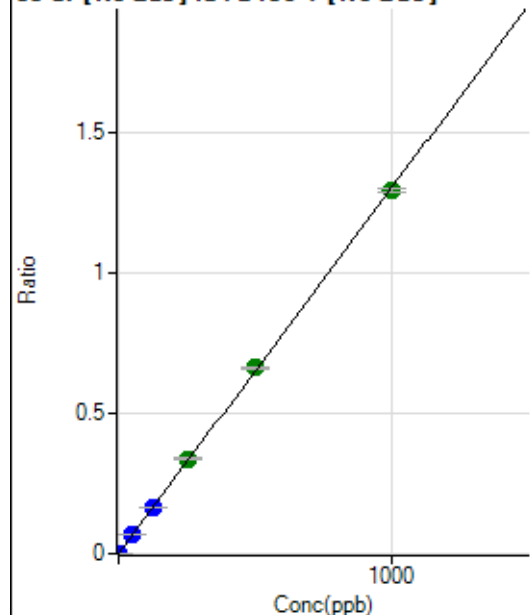
$$DL = 0.2177$$

$$BEC = 0.5129$$

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	58.33	0.0000	P	79.4
2	☐	1.000	0.938	8366.65	0.0012	P	3.9
3	☐	50.000	52.827	460641.98	0.0687	P	1.9
4	☐	125.000	128.031	1151366.06	0.1664	P	0.9
5	☐	250.000	259.698	2336796.71	0.3375	A	1.4
6	☐	500.000	509.216	4583541.20	0.6617	A	0.8
7	☐	1000.000	992.447	9024237.70	1.2896	A	1.1
8	☐			53907.67	0.0077	P	1.9

$$y = 0.0013 * x + 8.5725E-006$$

$$R = 0.9999$$

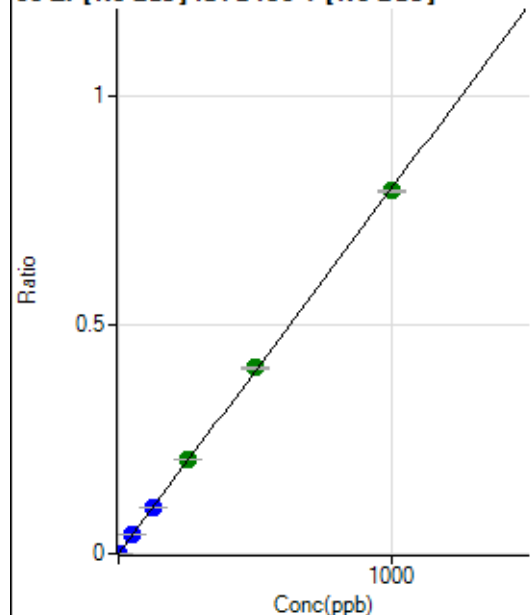
$$DL = 0.01572$$

$$BEC = 0.006597$$

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	252.79	0.0000	P	7.0
2	☐	1.000	0.949	5403.95	0.0008	P	2.8
3	☐	50.000	52.673	281706.74	0.0420	P	1.4
4	☐	125.000	127.792	704479.63	0.1018	P	1.3
5	☐	250.000	258.262	1424282.99	0.2057	A	0.4
6	☐	500.000	508.191	2803376.32	0.4047	A	1.4
7	☐	1000.000	993.356	5535770.22	0.7911	A	0.6
8	☐			2500.30	0.0004	P	10.0

$$y = 7.9634E-004 * x + 3.7316E-005$$

$$R = 0.9999$$

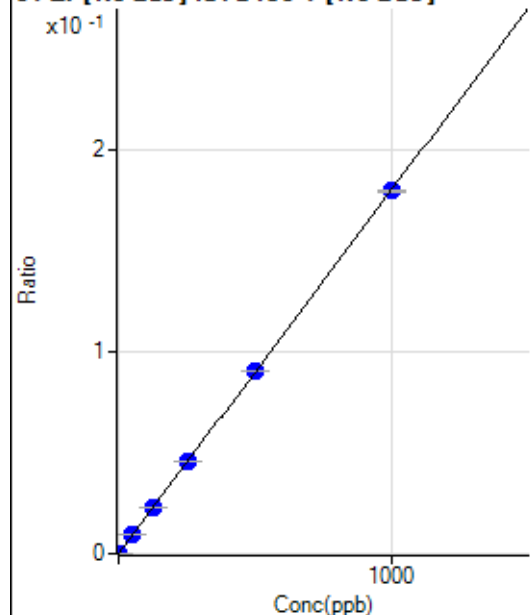
$$DL = 0.009889$$

$$BEC = 0.04686$$

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	52.78	0.0000	P	72.0
2	☐	1.000	0.946	1216.76	0.0002	P	15.0
3	☐	50.000	51.991	63015.51	0.0094	P	1.5
4	☐	125.000	125.583	156912.67	0.0227	P	0.2
5	☐	250.000	252.787	315951.39	0.0456	P	0.4
6	☐	500.000	502.912	628784.39	0.0908	P	0.7
7	☐	1000.000	997.675	1260073.90	0.1801	P	0.9
8	☐			552.80	0.0001	P	2.6

$$y = 1.8048\text{E-}004 * x + 7.8200\text{E-}006$$

$$R = 1.0000$$

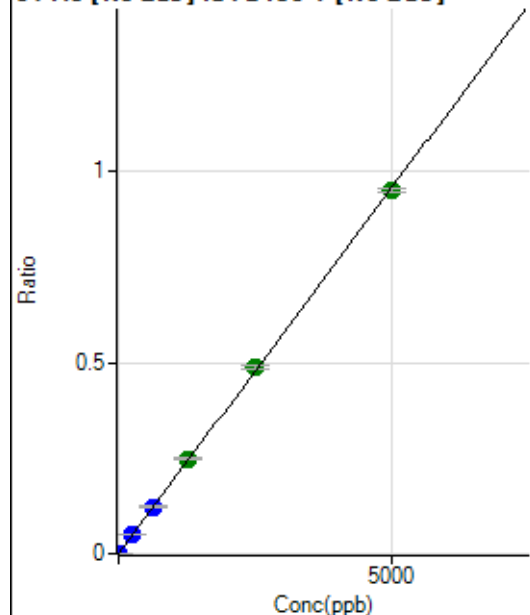
$$DL = 0.09359$$

$$BEC = 0.04333$$

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	125.00	0.0000	P	39.9
2	☐	5.000	4.894	6515.61	0.0010	P	3.2
3	☐	250.000	263.993	339346.91	0.0506	P	1.4
4	☐	625.000	640.148	848409.18	0.1226	P	2.0
5	☐	1250.000	1297.510	1720579.48	0.2485	A	0.8
6	☐	2500.000	2545.990	3377264.66	0.4876	A	1.6
7	☐	5000.000	4962.535	6650181.57	0.9504	A	1.1
8	☐			2919.84	0.0004	P	8.0

$$y = 1.9150\text{E-}004 * x + 1.8426\text{E-}005$$

$$R = 0.9999$$

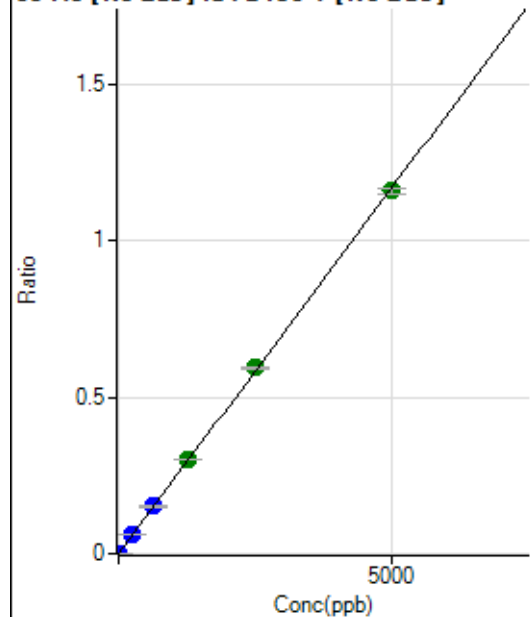
$$DL = 0.1152$$

$$BEC = 0.09622$$

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	50.00	0.0000	P	59.5
2	☐	5.000	4.611	7393.81	0.0011	P	2.4
3	☐	250.000	265.235	415811.06	0.0620	P	2.2
4	☐	625.000	646.258	1044884.52	0.1510	P	0.8
5	☐	1250.000	1291.180	2088472.36	0.3017	A	1.7
6	☐	2500.000	2542.770	4114686.29	0.5941	A	1.7
7	☐	5000.000	4964.901	8116352.70	1.1599	A	1.8
8	☐			3503.33	0.0005	P	10.0

$$y = 2.3362\text{E-}004 * x + 7.3581\text{E-}006$$

$$R = 0.9999$$

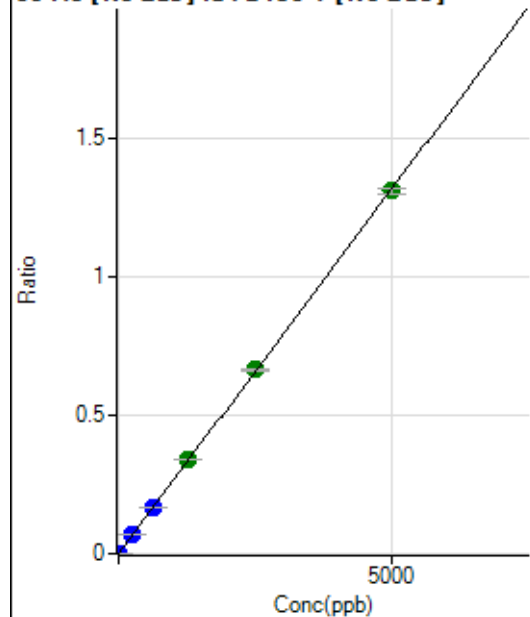
$$DL = 0.05619$$

$$BEC = 0.0315$$

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	66.67	0.0000	P	33.1
2	☐	5.000	4.813	8711.26	0.0013	P	2.6
3	☐	250.000	258.370	456699.04	0.0681	P	2.1
4	☐	625.000	632.460	1152865.14	0.1666	P	1.7
5	☐	1250.000	1287.367	2347910.84	0.3391	A	1.2
6	☐	2500.000	2522.598	4602501.71	0.6645	A	1.7
7	☐	5000.000	4978.009	9175264.35	1.3113	A	1.7
8	☐			4359.13	0.0006	P	6.8

$$y = 2.6341\text{E-}004 * x + 9.8451\text{E-}006$$

$$R = 1.0000$$

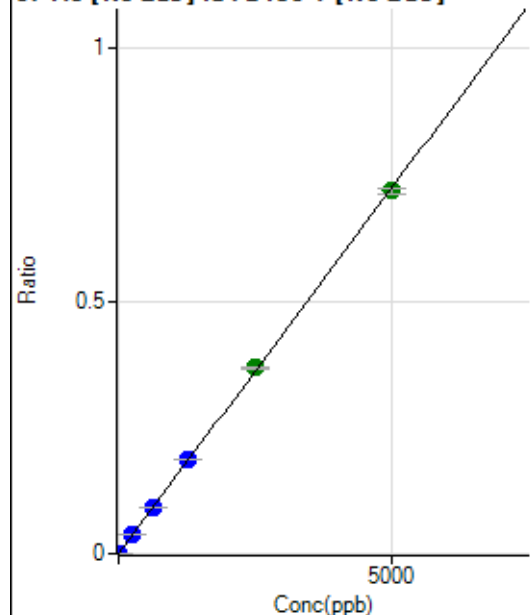
$$DL = 0.03715$$

$$BEC = 0.03738$$

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	16.67	0.0000	P	1.0
2	☐	5.000	4.561	4517.54	0.0007	P	9.2
3	☐	250.000	262.339	254810.39	0.0380	P	1.8
4	☐	625.000	637.608	638693.12	0.0923	P	1.3
5	☐	1250.000	1292.032	1294923.90	0.1870	P	1.3
6	☐	2500.000	2544.305	2551171.24	0.3683	A	1.6
7	☐	5000.000	4965.147	5029073.46	0.7187	A	1.7
8	☐			2086.32	0.0003	P	5.8

$$y = 1.4475\text{E-}004 * x + 2.4607\text{E-}006$$

$$R = 0.9999$$

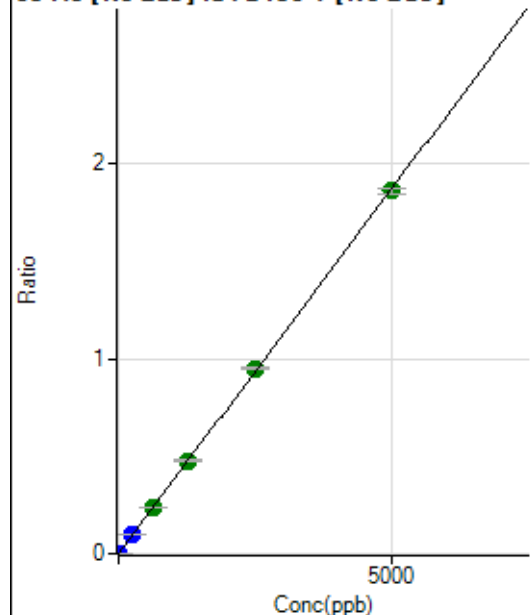
$$DL = 0.000487$$

$$BEC = 0.017$$

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	30.56	0.0000	P	57.8
2	☐	5.000	4.407	11279.93	0.0017	P	5.1
3	☐	250.000	257.244	646333.68	0.0963	P	1.3
4	☐	625.000	632.938	1639896.88	0.2370	A	2.0
5	☐	1250.000	1275.345	3306417.31	0.4775	A	0.8
6	☐	2500.000	2535.616	6576199.76	0.9494	A	1.1
7	☐	5000.000	4974.502	13033469.91	1.8626	A	1.2
8	☐			5365.07	0.0008	P	9.0

$$y = 3.7442\text{E-}004 * x + 4.5256\text{E-}006$$

$$R = 0.9999$$

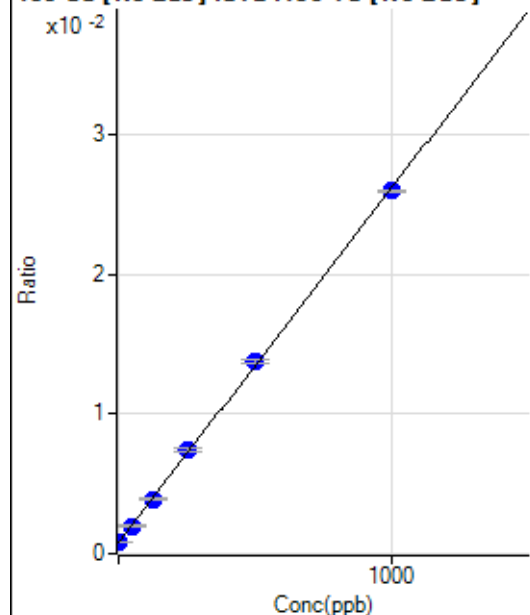
$$DL = 0.02094$$

$$BEC = 0.01209$$

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	2303.04	0.0008	P	7.6
2	☐	1.000	0.775	2414.17	0.0008	P	4.6
3	☐	50.000	47.319	5826.40	0.0020	P	3.7
4	☐	125.000	122.743	11766.40	0.0039	P	3.9
5	☐	250.000	259.648	22290.67	0.0074	P	3.7
6	☐	500.000	511.603	41696.95	0.0138	P	1.5
7	☐	1000.000	992.203	80135.30	0.0260	P	0.3
8	☐			2164.12	0.0007	P	7.9

$$y = 2.5397\text{E-}005 * x + 7.9326\text{E-}004$$

$$R = 0.9998$$

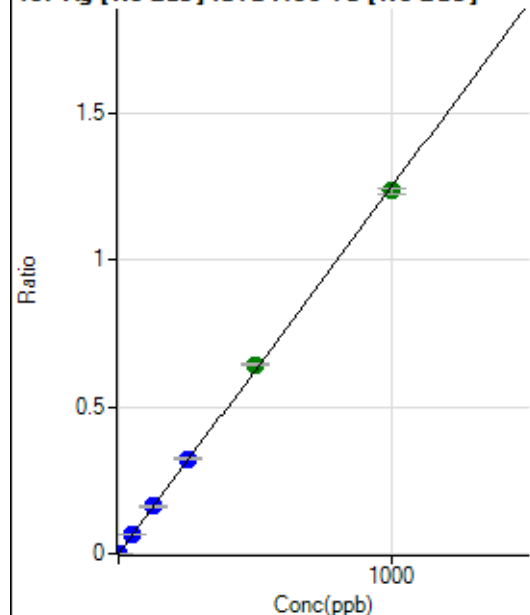
$$DL = 7.135$$

$$BEC = 31.23$$

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	41.67	0.0000	P	1.8
2	☐	1.000	0.927	3483.89	0.0012	P	4.0
3	☐	50.000	52.581	192000.76	0.0658	P	1.8
4	☐	125.000	129.018	485347.26	0.1613	P	2.5
5	☐	250.000	258.737	976367.21	0.3235	P	1.2
6	☐	500.000	516.078	1951346.36	0.6452	A	1.6
7	☐	1000.000	989.145	3812490.06	1.2367	A	1.5
8	☐			2255.81	0.0007	P	15.1

$$y = 0.0013 * x + 1.4348\text{E-}005$$

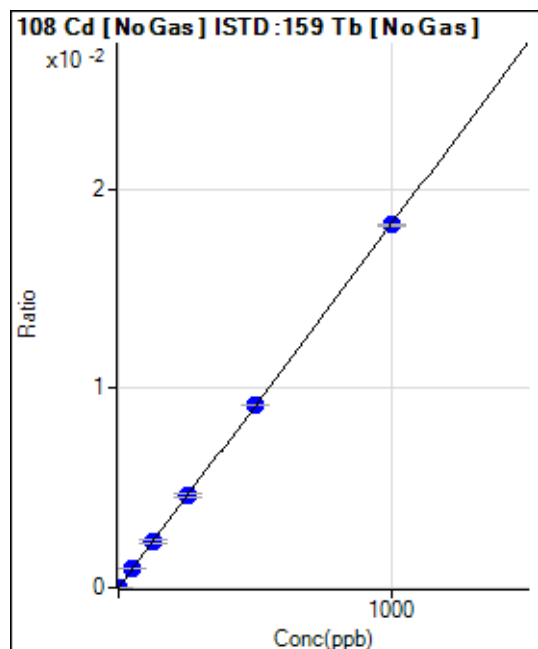
$$R = 0.9998$$

$$DL = 0.0006314$$

$$BEC = 0.01148$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	15.28	0.0000	P	55.5
2	☐	1.000	0.993	69.44	0.0000	P	21.0
3	☐	50.000	53.500	2862.84	0.0010	P	3.0
4	☐	125.000	128.364	7047.72	0.0023	P	7.6
5	☐	250.000	253.804	13975.29	0.0046	P	3.0
6	☐	500.000	501.577	27663.96	0.0091	P	0.6
7	☐	1000.000	997.665	56077.20	0.0182	P	0.3
8	☐			63.89	0.0000	P	14.5

$$y = 1.8227\text{E-}005 * x + 5.2426\text{E-}006$$

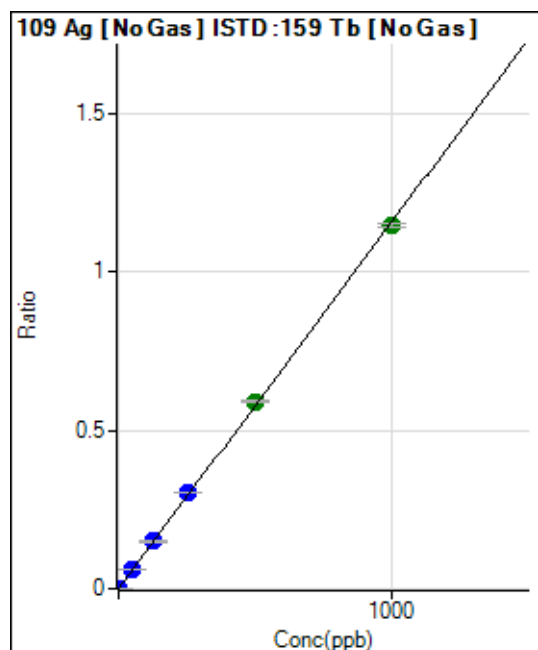
$$R = 1.0000$$

$$DL = 0.4792$$

$$BEC = 0.2876$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	27.78	0.0000	P	61.9
2	☐	1.000	1.006	3481.09	0.0012	P	3.6
3	☐	50.000	53.961	182193.18	0.0624	P	2.3
4	☐	125.000	130.152	452688.25	0.1505	P	3.4
5	☐	250.000	262.275	915149.21	0.3032	P	1.6
6	☐	500.000	511.320	1787822.74	0.5912	A	1.1
7	☐	1000.000	990.429	3530403.29	1.1451	A	0.9
8	☐			2280.80	0.0007	P	7.0

$$y = 0.0012 * x + 9.4991\text{E-}006$$

$$R = 0.9998$$

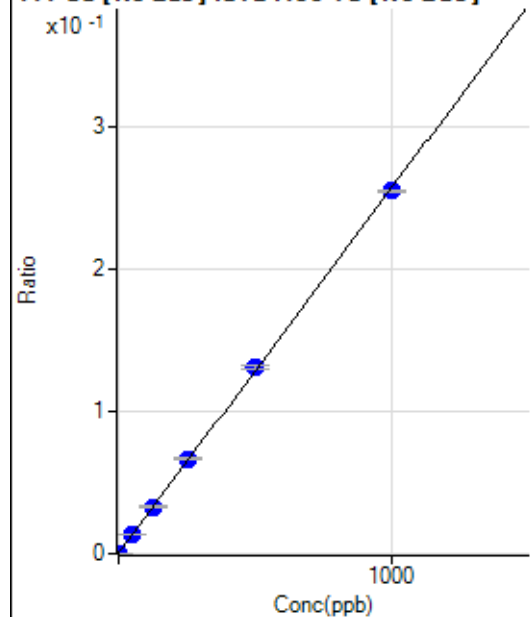
$$DL = 0.01525$$

$$BEC = 0.008216$$

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	699.17	0.0002	P	7.6
2	☐	1.000	1.173	1608.91	0.0005	P	2.4
3	☐	50.000	53.232	40598.66	0.0139	P	1.6
4	☐	125.000	127.915	99493.48	0.0331	P	2.7
5	☐	250.000	258.501	200934.99	0.0666	P	1.8
6	☐	500.000	509.948	396482.58	0.1311	P	2.0
7	☐	1000.000	992.375	785957.37	0.2549	P	0.4
8	☐			1053.97	0.0003	P	6.5

$$y = 2.5664\text{E-}004 * x + 2.4082\text{E-}004$$

$$R = 0.9999$$

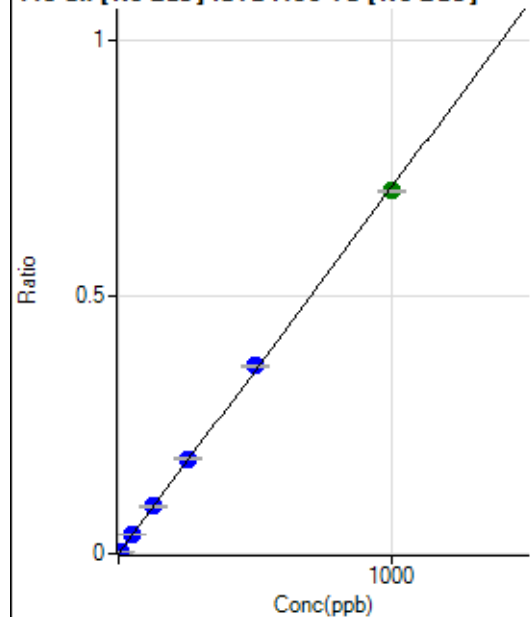
$$DL = 0.2132$$

$$BEC = 0.9383$$

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	561.14	0.0002	P	12.7
2	☐	5.000	4.713	10546.02	0.0036	P	1.7
3	☐	50.000	52.742	110269.68	0.0378	P	2.6
4	☐	125.000	128.537	276091.68	0.0918	P	2.4
5	☐	250.000	258.891	557179.34	0.1846	P	1.5
6	☐	500.000	513.709	1107397.84	0.3662	P	1.1
7	☐	1000.000	990.345	2175659.62	0.7057	A	0.8
8	☐			1250.10	0.0004	P	16.3

$$y = 7.1240\text{E-}004 * x + 1.9320\text{E-}004$$

$$R = 0.9998$$

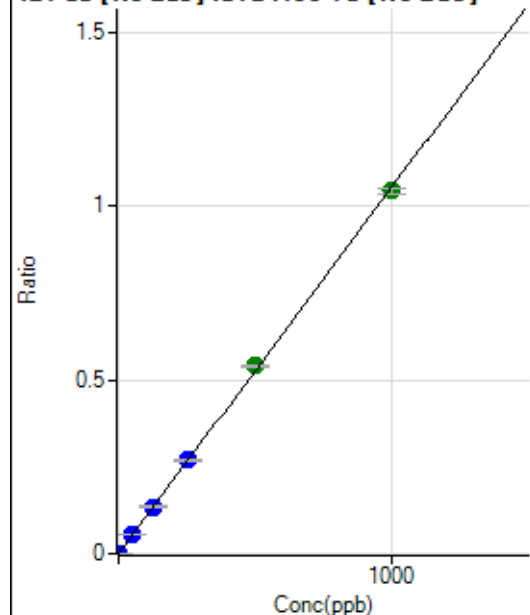
$$DL = 0.1036$$

$$BEC = 0.2712$$

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	27.78	0.0000	P	91.5
2	☐	2.000	1.849	5806.95	0.0020	P	3.7
3	☐	50.000	52.745	162229.16	0.0556	P	2.4
4	☐	125.000	128.390	406847.71	0.1352	P	2.7
5	☐	250.000	256.486	815254.81	0.2701	P	1.4
6	☐	500.000	513.498	1635637.41	0.5408	A	0.5
7	☐	1000.000	991.068	3217871.88	1.0438	A	1.5
8	☐			2541.96	0.0008	P	0.5

$$y = 0.0011 * x + 9.4579E-006$$

$$R = 0.9998$$

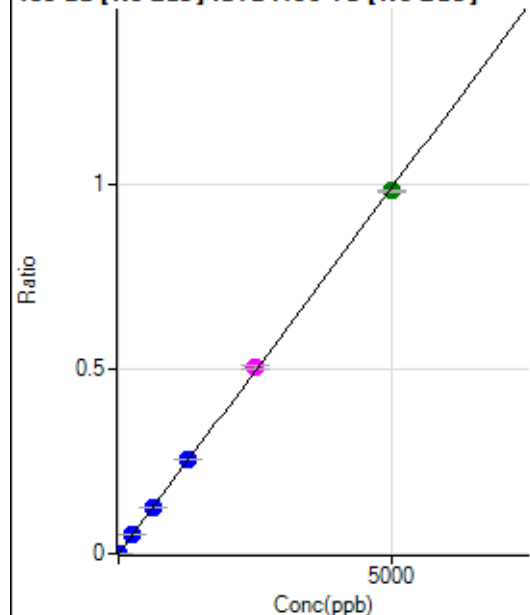
$$DL = 0.02464$$

$$BEC = 0.00898$$

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	11.11	0.0000	P	115.
2	☐	10.000	9.075	5354.01	0.0018	P	5.5
3	☐	250.000	261.357	151329.60	0.0518	P	2.3
4	☐	625.000	635.320	379017.12	0.1260	P	2.7
5	☐	1250.000	1289.564	771736.67	0.2557	P	1.0
6	☐	2500.000	2548.908	1528347.56	0.5054	M	1.7
7	☐	5000.000	4963.799	3034520.62	0.9842	A	0.8
8	☐			6090.42	0.0020	P	7.6

$$y = 1.9828E-004 * x + 3.8710E-006$$

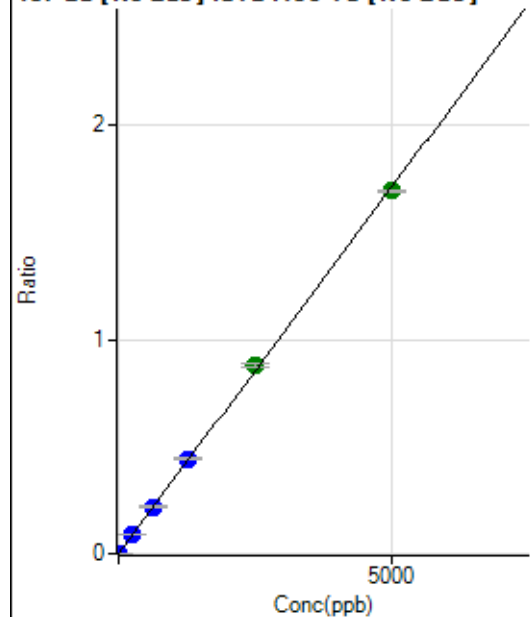
$$R = 0.9999$$

$$DL = 0.06786$$

$$BEC = 0.01952$$

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	22.22	0.0000	P	141.
2	☐	10.000	9.470	9631.44	0.0032	P	0.9
3	☐	250.000	264.956	264418.75	0.0905	P	1.5
4	☐	625.000	637.604	655479.75	0.2179	P	3.2
5	☐	1250.000	1293.546	1333985.86	0.4420	P	1.8
6	☐	2500.000	2568.988	2654871.20	0.8779	A	1.4
7	☐	5000.000	4952.297	5217358.23	1.6923	A	0.7
8	☐			10398.69	0.0034	P	0.6

$$y = 3.4172\text{E-}004 * x + 7.6288\text{E-}006$$

$$R = 0.9998$$

$$DL = 0.09462$$

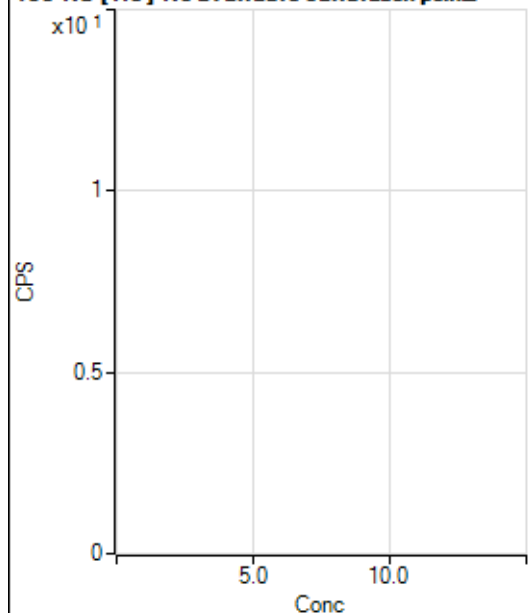
$$BEC = 0.02232$$

Weight: <None>

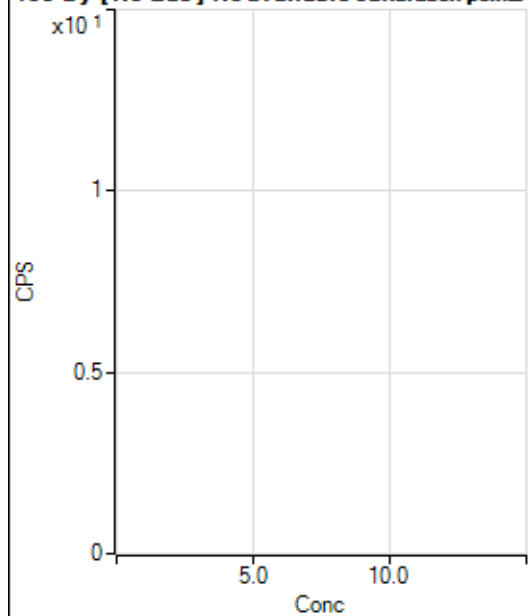
Min Conc: 0

150 Nd [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			6.67		P	0.0
2	☐			11.11		P	124.
3	☐			6.67		P	100.
4	☐			28.89		P	48.0
5	☐			35.56		P	60.3
6	☐			64.45		P	12.0
7	☐			122.23		P	40.9
8	☐			11.11		P	69.3

150 Nd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			0.00		P	
2	☐			4.44		P	173.
3	☐			2.22		P	86.6
4	☐			6.66		P	86.6
5	☐			7.78		P	49.5
6	☐			10.00		P	33.3
7	☐			14.44		P	13.4
8	☐			1.11		P	173.

156 Dy [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			16.67		P	100.
2	☐			13.89		P	34.7
3	☐			5.56		P	173.
4	☐			11.11		P	43.3
5	☐			27.78		P	34.6
6	☐			44.44		P	21.7
7	☐			94.45		P	43.5
8	☐			158.34		P	10.5

156 Dy [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1.11		P	173.
2	☐			2.22		P	86.6
3	☐			6.67		P	50.0
4	☐			11.11		P	75.5
5	☐			8.89		P	21.6
6	☐			13.33		P	25.0
7	☐			41.11		P	28.5
8	☐			98.89		P	27.2

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			41.67		P	20.0
2	☐			58.33		P	79.5
3	☐			41.67		P	60.0
4	☐			47.22		P	53.9
5	☐			47.22		P	36.7
6	☐			88.89		P	14.3
7	☐			91.67		P	9.1
8	☐			238.90		P	12.3

160 Gd [He] No available calibration points

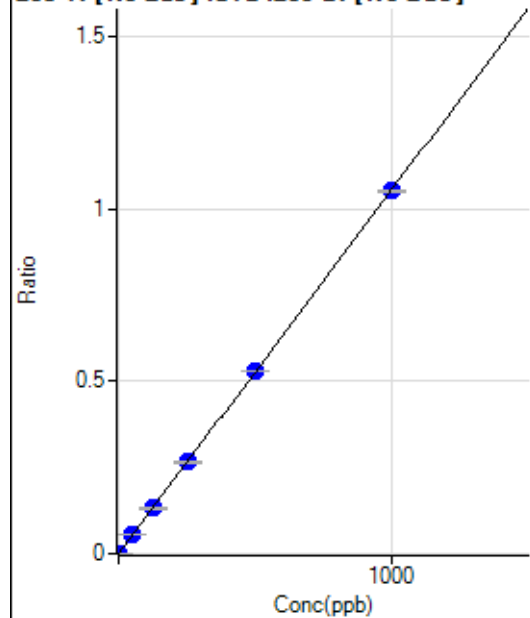
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			27.78		P	27.7
2	☐			34.44		P	14.8
3	☐			24.44		P	41.7
4	☐			26.66		P	21.7
5	☐			27.78		P	27.7
6	☐			44.44		P	4.3
7	☐			55.55		P	6.9
8	☐			150.00		P	17.4

164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			16.67		P	50.0
2	☐			19.44		P	65.5
3	☐			30.55		P	68.6
4	☐			19.44		P	65.5
5	☐			19.44		P	99.0
6	☐			25.00		P	57.7
7	☐			27.78		P	17.3
8	☐			66.67		P	45.1

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			7.78		P	65.5
2	☐			6.67		P	0.0
3	☐			10.00		P	0.0
4	☐			8.89		P	114.
5	☐			15.55		P	44.6
6	☐			15.56		P	12.4
7	☐			20.00		P	33.4
8	☐			13.33		P	50.0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	8.33	0.0000	P	99.4
2	☐	1.000	0.944	1286.22	0.0010	P	9.8
3	☐	50.000	51.360	67656.90	0.0541	P	1.8
4	☐	125.000	124.295	168851.34	0.1310	P	1.6
5	☐	250.000	252.425	346002.44	0.2661	P	1.3
6	☐	500.000	503.061	690733.47	0.5303	P	0.7
7	☐	1000.000	997.884	1381255.58	1.0519	P	0.4
8	☐			963.95	0.0008	P	17.6

$$y = 0.0011 * x + 6.4857E-006$$

$$R = 1.0000$$

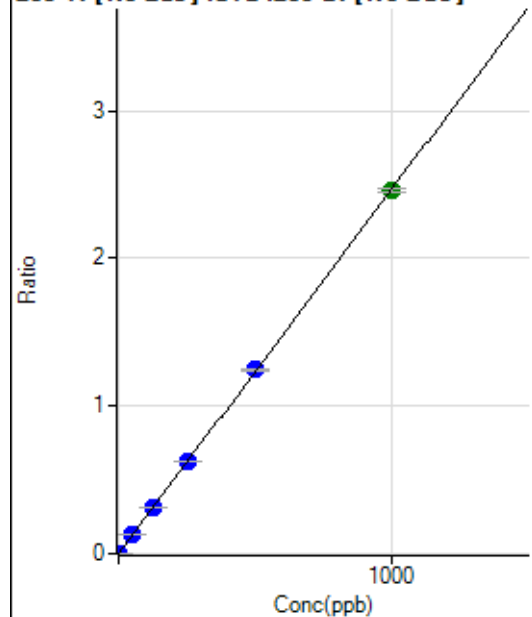
$$DL = 0.01834$$

$$BEC = 0.006153$$

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	41.67	0.0000	P	32.5
2	☐	1.000	0.922	2961.54	0.0023	P	3.8
3	☐	50.000	51.324	158203.06	0.1266	P	1.4
4	☐	125.000	126.752	402861.58	0.3126	P	1.4
5	☐	250.000	254.640	816694.71	0.6280	P	0.7
6	☐	500.000	504.454	1620376.05	1.2441	P	0.7
7	☐	1000.000	996.328	3226387.86	2.4571	A	1.0
8	☐			1997.43	0.0016	P	9.8

$$y = 0.0025 * x + 3.2804E-005$$

$$R = 1.0000$$

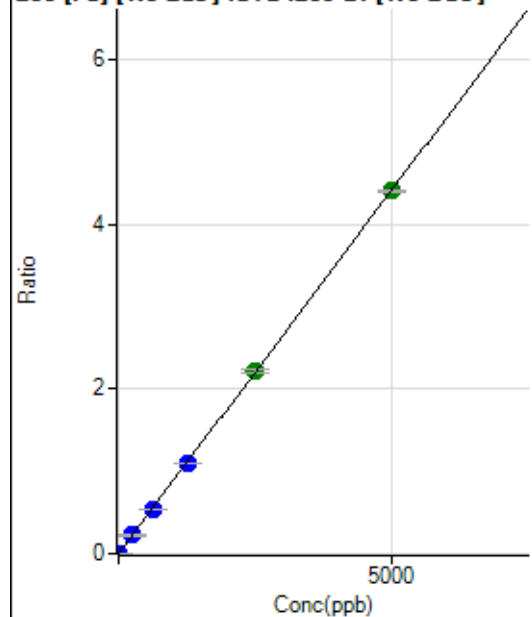
$$DL = 0.01297$$

$$BEC = 0.0133$$

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	311.12	0.0002	P	13.3
2	☐	1.000	0.777	1196.37	0.0009	P	3.7
3	☐	250.000	253.366	279771.30	0.2239	P	2.4
4	☐	625.000	614.766	699658.14	0.5429	P	1.4
5	☐	1250.000	1238.876	1422539.29	1.0939	P	0.8
6	☐	2500.000	2518.945	2896073.36	2.2238	A	2.2
7	☐	5000.000	4994.419	5789707.13	4.4091	A	0.7
8	☐			3033.74	0.0024	P	5.1

$$y = 8.8275E-004 * x + 2.4582E-004$$

$$R = 1.0000$$

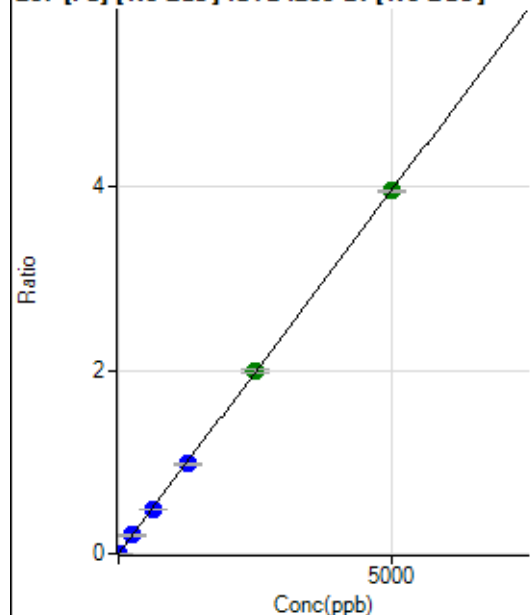
$$DL = 0.1114$$

$$BEC = 0.2785$$

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	255.57	0.0002	P	15.0
2	☐	1.000	0.803	1075.99	0.0008	P	2.7
3	☐	250.000	253.501	251342.37	0.2012	P	3.1
4	☐	625.000	608.115	621451.00	0.4823	P	1.9
5	☐	1250.000	1231.953	1270233.78	0.9768	P	1.2
6	☐	2500.000	2520.466	2602210.53	1.9983	A	2.4
7	☐	5000.000	4996.214	5201025.75	3.9609	A	0.5
8	☐			2644.77	0.0021	P	6.6

$$y = 7.9274\text{E-}004 * x + 2.0161\text{E-}004$$

$$R = 1.0000$$

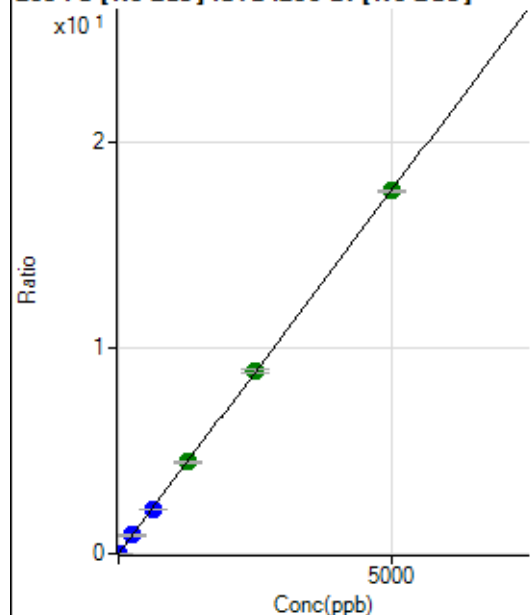
$$DL = 0.1146$$

$$BEC = 0.2543$$

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	1220.43	0.0010	P	5.8
2	☐	1.000	0.809	4915.28	0.0038	P	3.3
3	☐	250.000	254.409	1125975.18	0.9012	P	2.7
4	☐	625.000	612.852	2795719.50	2.1695	P	1.3
5	☐	1250.000	1258.993	5794286.74	4.4558	A	1.1
6	☐	2500.000	2512.273	11577308.91	8.8903	A	2.4
7	☐	5000.000	4992.913	23199830.15	17.6678	A	0.3
8	☐			12172.87	0.0095	P	7.2

$$y = 0.0035 * x + 9.6508\text{E-}004$$

$$R = 1.0000$$

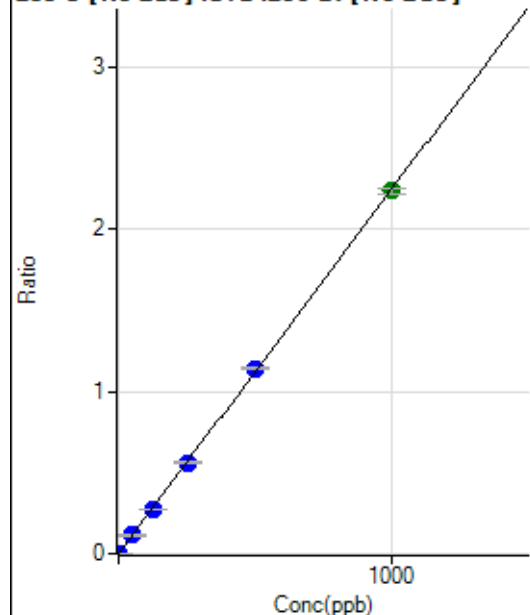
$$DL = 0.04716$$

$$BEC = 0.2727$$

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	0.902	2600.34	0.0020	P	3.6
3	☐	50.000	50.267	140806.97	0.1127	P	0.9
4	☐	125.000	123.293	356161.72	0.2764	P	0.8
5	☐	250.000	250.128	729084.80	0.5607	P	1.0
6	☐	500.000	508.066	1483503.65	1.1388	P	1.2
7	☐	1000.000	996.135	2932006.01	2.2328	A	1.6
8	☐			802.83	0.0006	P	7.3

$$y = 0.0022 * x + 4.3364E-006$$

$$R = 0.9999$$

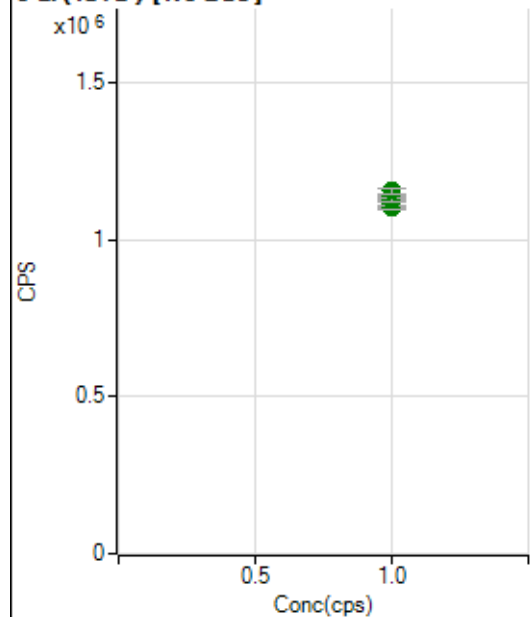
$$DL = 0.005027$$

$$BEC = 0.001935$$

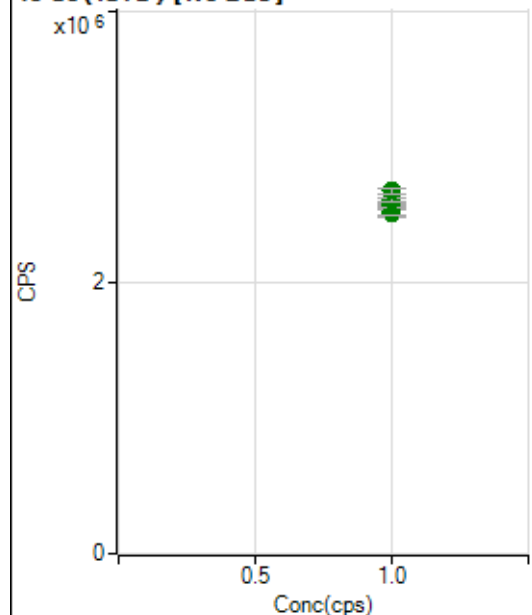
Weight: <None>

Min Conc: 0

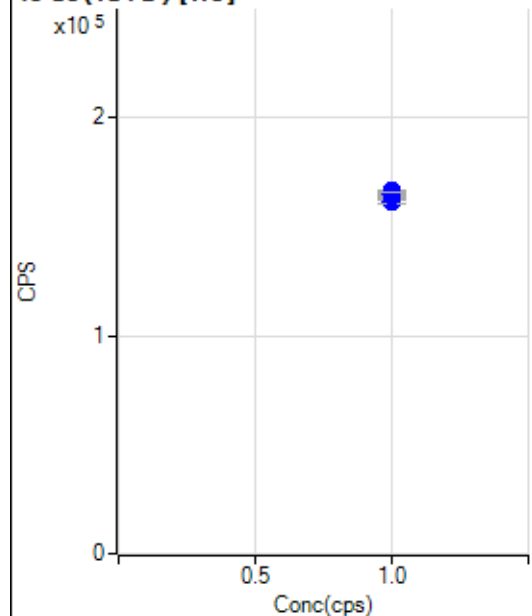
6 Li (ISTD) [No Gas]



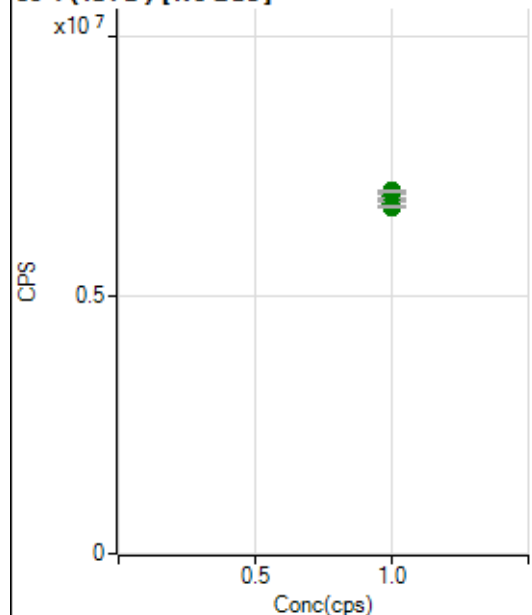
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1119322.93		A	1.2
2	☐	1.000		1113245.77		A	1.5
3	☐	1.000		1103731.02		A	0.8
4	☐	1.000		1130243.42		A	1.7
5	☐	1.000		1138455.46		A	1.3
6	☐	1.000		1135508.65		A	1.4
7	☐	1.000		1127433.56		A	1.0
8	☐	1.000		1156694.86		A	1.3

45 Sc (ISTD) [No Gas]

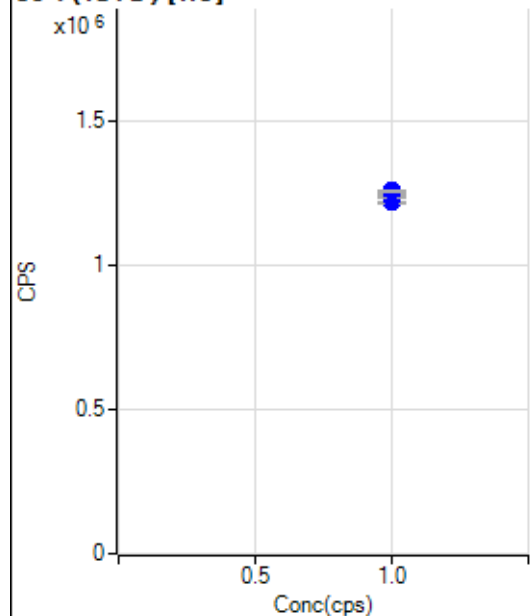
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2511099.04		A	1.9
2	☐	1.000		2543603.49		A	0.2
3	☐	1.000		2518749.23		A	2.2
4	☐	1.000		2590782.69		A	2.2
5	☐	1.000		2571509.75		A	1.2
6	☐	1.000		2579758.71		A	1.7
7	☐	1.000		2607548.78		A	1.0
8	☐	1.000		2676472.16		A	1.7

45 Sc (ISTD) [He]

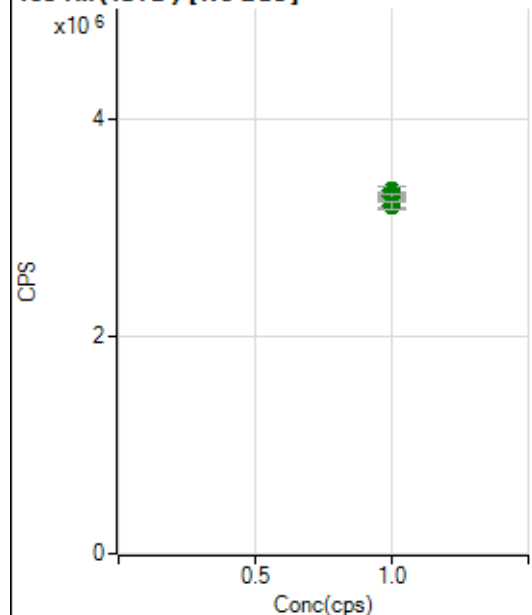
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		163316.14		P	0.9
2	☐	1.000		161515.40		P	1.1
3	☐	1.000		164436.69		P	1.0
4	☐	1.000		165577.84		P	0.4
5	☐	1.000		164087.41		P	0.9
6	☐	1.000		166529.92		P	0.5
7	☐	1.000		165289.23		P	1.3
8	☐	1.000		166024.38		P	0.2

89 Y (ISTD) [No Gas]

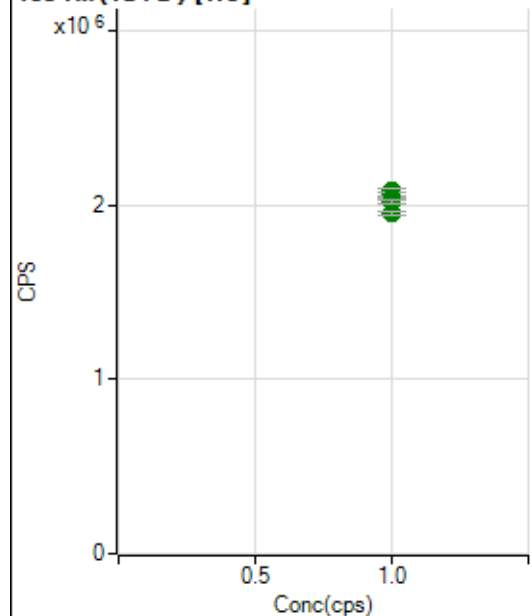
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6775015.25		A	1.0
2	☐	1.000		6817566.22		A	0.4
3	☐	1.000		6710531.91		A	1.0
4	☐	1.000		6920786.91		A	1.3
5	☐	1.000		6924252.53		A	1.2
6	☐	1.000		6927195.66		A	1.1
7	☐	1.000		6997940.11		A	0.8
8	☐	1.000		7017108.37		A	0.3

89 Y (ISTD) [He]

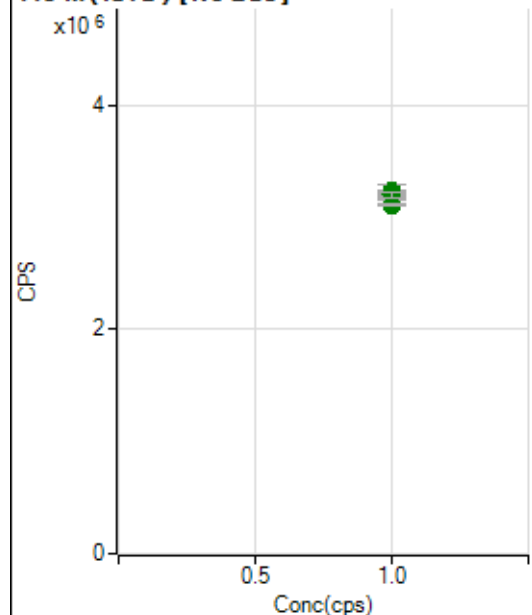
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1234442.05		P	0.3
2	☐	1.000		1218910.89		P	0.6
3	☐	1.000		1239022.26		P	0.5
4	☐	1.000		1244373.83		P	1.0
5	☐	1.000		1244167.64		P	0.2
6	☐	1.000		1248718.82		P	0.5
7	☐	1.000		1233683.22		P	0.5
8	☐	1.000		1258203.65		P	0.8

103 Rh (ISTD) [No Gas]

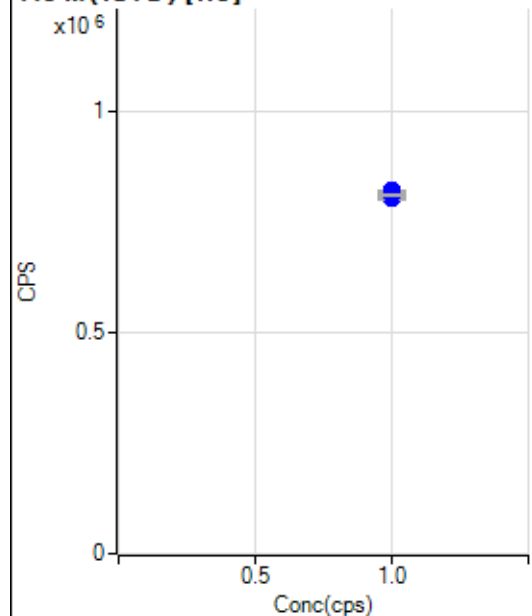
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3291084.27		A	2.0
2	☐	1.000		3289614.53		A	1.3
3	☐	1.000		3214288.77		A	1.5
4	☐	1.000		3344472.40		A	2.1
5	☐	1.000		3307750.44		A	1.2
6	☐	1.000		3305803.44		A	0.5
7	☐	1.000		3290899.92		A	1.3
8	☐	1.000		3206657.99		A	1.9

103 Rh (ISTD) [He]

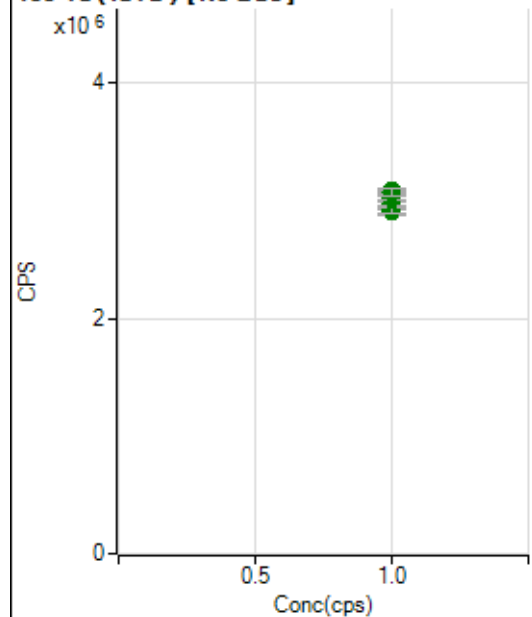
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2049251.55		A	0.9
2	☐	1.000		2040340.07		A	0.4
3	☐	1.000		2060501.03		A	1.2
4	☐	1.000		2084423.93		A	1.0
5	☐	1.000		2030867.38		A	0.3
6	☐	1.000		2040980.92		A	0.6
7	☐	1.000		2019247.42		A	1.3
8	☐	1.000		1958572.30		A	0.9

115 In (ISTD) [No Gas]

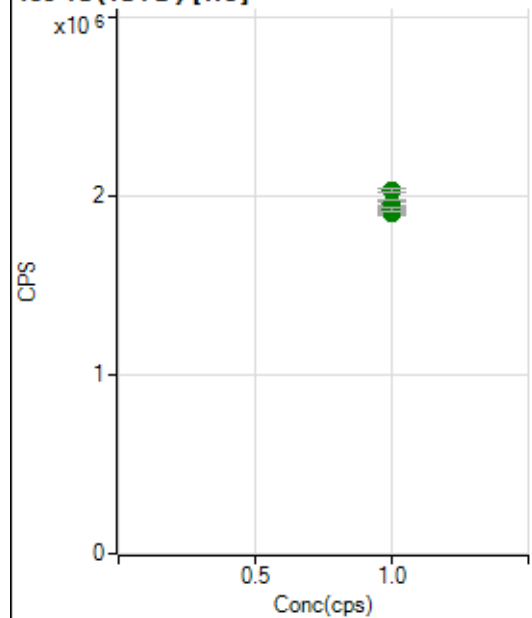
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3190436.18		A	2.0
2	☐	1.000		3218381.80		A	1.7
3	☐	1.000		3112198.97		A	0.9
4	☐	1.000		3237385.38		A	3.3
5	☐	1.000		3233899.28		A	0.7
6	☐	1.000		3201647.24		A	1.0
7	☐	1.000		3215083.97		A	1.2
8	☐	1.000		3204940.53		A	1.7

115 In (ISTD) [He]

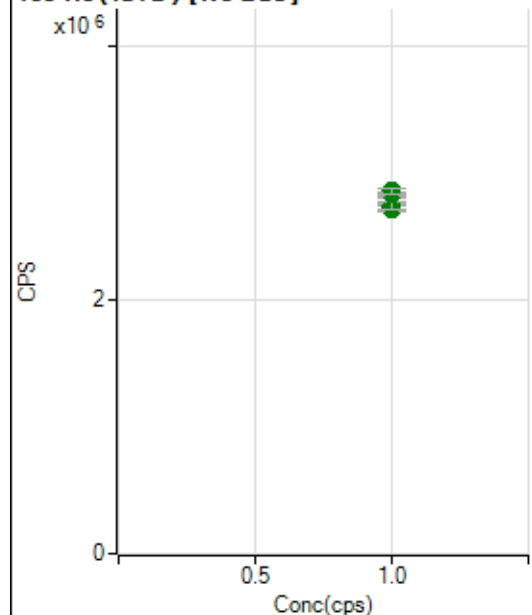
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		807247.34		P	0.4
2	☐	1.000		803493.04		P	0.8
3	☐	1.000		809689.36		P	0.6
4	☐	1.000		819332.56		P	0.7
5	☐	1.000		814923.75		P	0.1
6	☐	1.000		814748.98		P	0.8
7	☐	1.000		802337.26		P	0.6
8	☐	1.000		810071.11		P	0.2

159 Tb (ISTD) [No Gas]

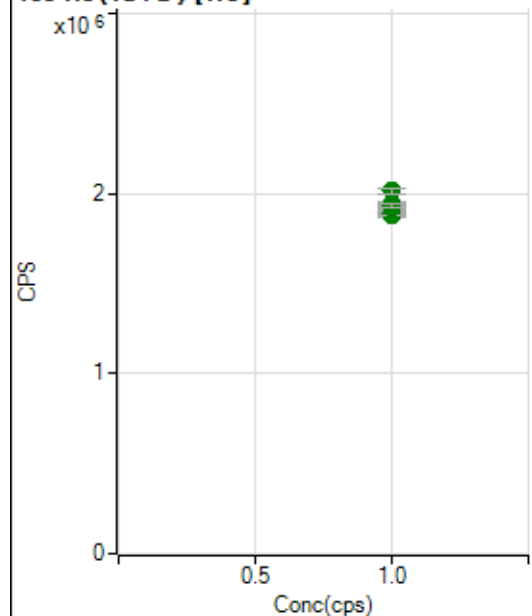
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2904823.46		A	1.8
2	☐	1.000		2969394.19		A	1.6
3	☐	1.000		2920679.19		A	1.8
4	☐	1.000		3010264.96		A	3.1
5	☐	1.000		3018438.01		A	1.9
6	☐	1.000		3024442.21		A	1.4
7	☐	1.000		3083020.27		A	0.6
8	☐	1.000		3072667.04		A	1.7

159 Tb (ISTD) [He]

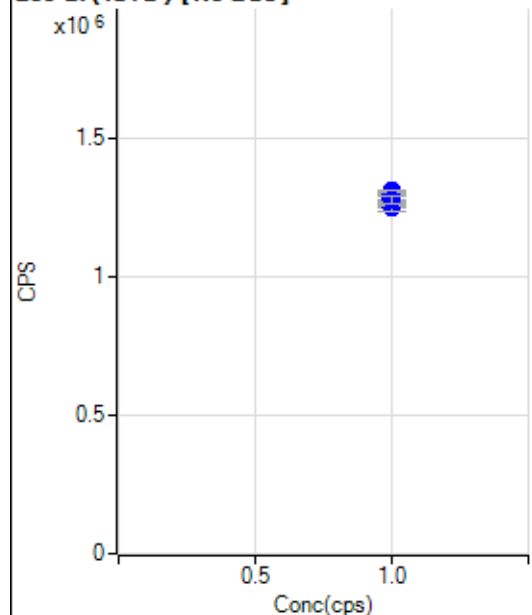
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1925242.32		A	0.9
2	☐	1.000		1908106.55		A	1.3
3	☐	1.000		1912040.75		A	1.2
4	☐	1.000		1957918.67		A	0.9
5	☐	1.000		1954135.07		A	0.9
6	☐	1.000		1961967.64		A	1.7
7	☐	1.000		1928303.37		A	1.1
8	☐	1.000		2029511.51		A	1.2

165 Ho (ISTD) [No Gas]

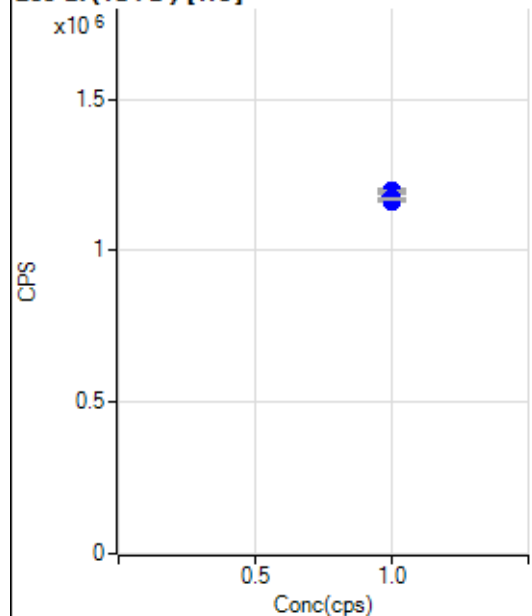
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2719197.39		A	1.9
2	☐	1.000		2731165.36		A	1.4
3	☐	1.000		2714971.72		A	1.9
4	☐	1.000		2742908.46		A	2.2
5	☐	1.000		2821455.31		A	1.4
6	☐	1.000		2827116.45		A	1.2
7	☐	1.000		2829116.84		A	1.2
8	☐	1.000		2854101.93		A	1.5

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1895481.43		A	0.7
2	☐	1.000		1882625.40		A	1.0
3	☐	1.000		1892865.42		A	1.7
4	☐	1.000		1927345.11		A	1.2
5	☐	1.000		1920564.55		A	0.5
6	☐	1.000		1944770.86		A	1.5
7	☐	1.000		1937421.73		A	0.9
8	☐	1.000		2016482.28		A	1.5

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1264945.55		P	2.4
2	☐	1.000		1283855.98		P	1.4
3	☐	1.000		1249765.62		P	1.5
4	☐	1.000		1288890.68		P	2.0
5	☐	1.000		1300439.02		P	1.2
6	☐	1.000		1302556.38		P	1.6
7	☐	1.000		1313114.97		P	0.6
8	☐	1.000		1278075.08		P	2.3

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1181892.03		P	0.9
2	☐	1.000		1163427.36		P	0.6
3	☐	1.000		1182985.14		P	1.1
4	☐	1.000		1194986.16		P	1.3
5	☐	1.000		1189485.53		P	0.2
6	☐	1.000		1197415.30		P	0.8
7	☐	1.000		1177091.99		P	1.6
8	☐	1.000		1171049.06		P	0.9

US EPA Tune Check Report

Operator Name Jaswal
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\P8081920.b
Acq. Date-Time 2020-08-19 09:06:37
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		2796	27962.89			2.836	5.000
24		138234	1382337.93			1.674	5.000
25		18816	188160.10			2.343	5.000
26		22909	229093.28			2.311	5.000
59		19042	190423.67			1.993	5.000
113		2436	24362.32			2.981	5.000
115		7792	77917.92			2.849	5.000
206		1832	18317.18			2.809	5.000
207		1508	15081.52			2.546	5.000
208		3759	37590.50			2.532	5.000
220		1	11.20			28.516	

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

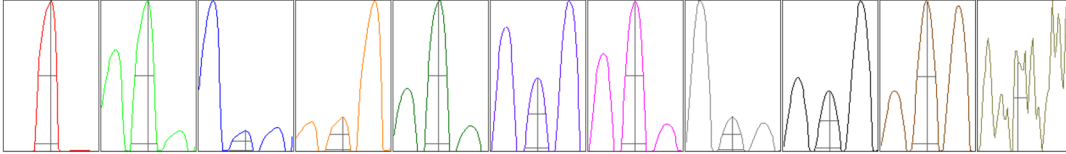
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	2808	2864	2849	2663	2798
24	135714	140336	140177	135781	139161
25	18760	19132	19149	18079	18959
26	22807	23462	23224	22072	22981
59	18788	19344	19268	18498	19314
113	2426	2513	2481	2322	2441
115	7826	8043	7846	7432	7812
206	1830	1898	1852	1756	1822
207	1495	1562	1526	1459	1500
208	3782	3862	3769	3602	3780

US EPA Tune Check Report

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

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	5026.26	9.00	8.90 - 9.10	
24	244058.83	24.00	23.90 - 24.10	
25	32636.79	25.00	24.90 - 25.10	
26	37644.74	26.00	25.90 - 26.10	
59	33401.37	58.95	58.90 - 59.10	
113	4604.15	113.00	112.90 - 113.10	
115	14504.97	115.00	114.90 - 115.10	
206	3346.72	206.00	205.90 - 206.10	
207	2709.55	207.00	206.90 - 207.10	
208	6758.13	208.00	207.90 - 208.10	
220	1.30	219.80	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.59	0.737	0.900	
24	0.61	0.824	0.900	
25	0.61	0.773	0.900	
26	0.61	0.785	0.900	
59	0.60	0.782	0.900	
113	0.55	0.745	0.900	
115	0.55	0.775	0.900	
206	0.57	0.807	0.900	
207	0.57	0.818	0.900	
208	0.58	0.826	0.900	
220	0.42			

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode HMI Nebulizer Gas 0.50 L/min Dilution Gas 0.45 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	9.0 V	Deflect	14.8 V
Extract 2	-250.0 V	Cell Entrance	-30 V	Plate Bias	-50 V
Omega Bias	-120 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	150 V		

QP Parameters

Mass Gain	122	Axis Gain	0.9994	QP Bias	-4.0 V
Mass Offset	125	Axis Offset	-0.03		

Hardware Settings

Torch

Torch H	0.7 mm	Torch V	-0.1 mm
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EM

Discriminator	4.0 mV	Analog HV	2184 V	Pulse HV	1276 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		5637	56371.39			1.283	
89		11741	117407.43			0.933	
205		6977	69771.28			1.089	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	5646	5568	5719	5694	5558
89	11755	11609	11826	11863	11651
205	7055	6931	7036	6993	6871

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	HMI	Nebulizer Gas	0.50 L/min	Dilution Gas	0.45 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	9.0 V	Deflect	3.4 V
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US EPA Tune Check Report

Extract 2	-250.0 V	Cell Entrance	-50 V	Plate Bias	-60 V
Omega Bias	-120 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	0.9994	QP Bias	-13.0 V
Mass Offset	125	Axis Offset	-0.03		
Hardware Settings					
Torch					
Torch H	0.7 mm	Torch V	-0.1 mm		
EM					
Discriminator	4.0 mV	Analog HV	2184 V	Pulse HV	1276 V