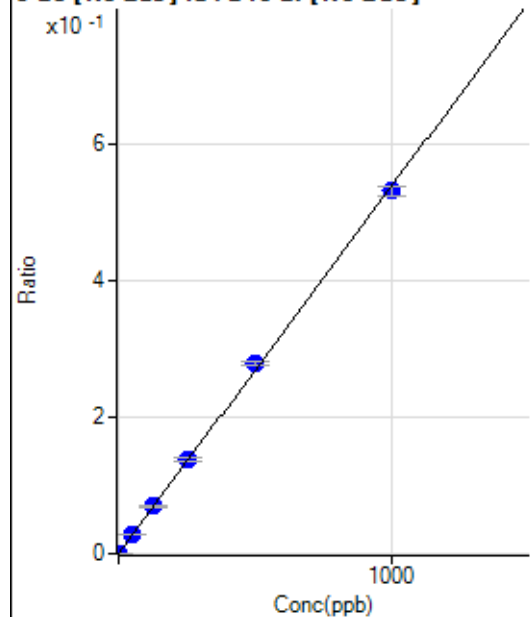


Batch Folder: D:\Agilent\ICPMH\1\DATA\P8011521MS.b\
Analysis File: P8011521MS.batch.bin
DA Date-Time: 2021-01-15 16:53:19
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	003CALB.d	S00	2021-01-15 13:33:18
2	004CALS.d	S02	2021-01-15 13:36:29
3	005CALS.d	S03	2021-01-15 13:39:39
4	006CALS.d	S04	2021-01-15 13:42:50
5	007CALS.d	S05	2021-01-15 13:45:54
6	008CALS.d	S06	2021-01-15 13:48:54
7	009CALS.d	S07	2021-01-15 13:51:52
8	010CALS.d	S08	2021-01-15 13:54:53

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	41.57	0.0000	P	37.1
2	☐	1.000	1.001	812.75	0.0006	P	5.9
3	☐	50.000	51.521	41761.00	0.0277	P	0.2
4	☐	125.000	128.454	104580.63	0.0691	P	2.4
5	☐	250.000	258.299	216824.58	0.1389	P	4.3
6	☐	500.000	519.441	433128.60	0.2794	P	2.1
7	☐	1000.000	987.697	844771.47	0.5312	P	2.4
8	☐			-6396.87	-0.0040	P	-2.5

$$y = 5.3775\text{E-}004 * x + 2.7507\text{E-}005$$

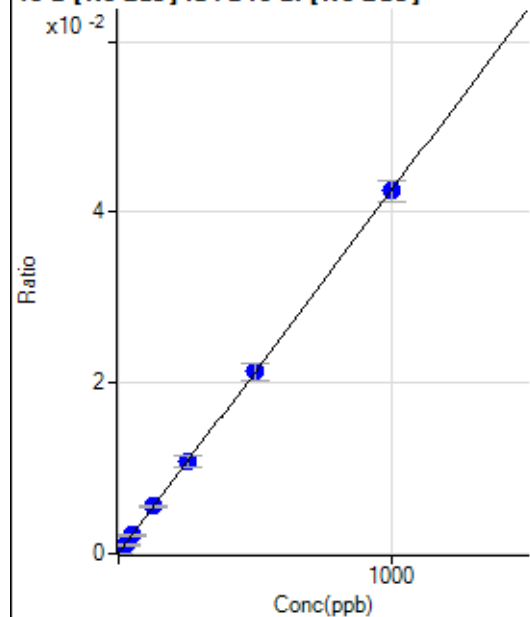
$$R = 0.9997$$

$$DL = 0.05697$$

$$BEC = 0.05115$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	59.99	0.0000	P	21.6
2	☐	25.000	23.287	1479.79	0.0010	P	4.7
3	☐	50.000	50.853	3317.06	0.0022	P	5.8
4	☐	125.000	129.317	8391.41	0.0055	P	6.1
5	☐	250.000	254.199	16911.73	0.0109	P	11.1
6	☐	500.000	500.221	33038.51	0.0213	P	10.1
7	☐	1000.000	998.300	67678.76	0.0425	P	6.0
8	☐			11119.36	0.0069	P	8.7

$$y = 4.2539\text{E-}005 * x + 3.9701\text{E-}005$$

$$R = 1.0000$$

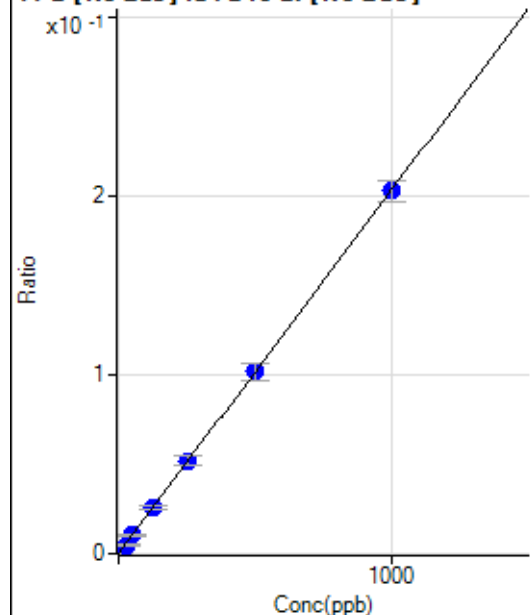
$$DL = 0.6039$$

$$BEC = 0.9333$$

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	239.96	0.0002	P	11.0
2	☐	25.000	22.871	6906.28	0.0048	P	5.6
3	☐	50.000	51.243	15918.82	0.0106	P	7.5
4	☐	125.000	128.170	39670.77	0.0262	P	7.1
5	☐	250.000	254.393	80811.39	0.0519	P	10.8
6	☐	500.000	501.170	158086.00	0.1020	P	9.4
7	☐	1000.000	997.912	323147.73	0.2030	P	6.1
8	☐			53088.85	0.0328	P	7.4

$$y = 2.0322E-004 * x + 1.5862E-004$$

$$R = 1.0000$$

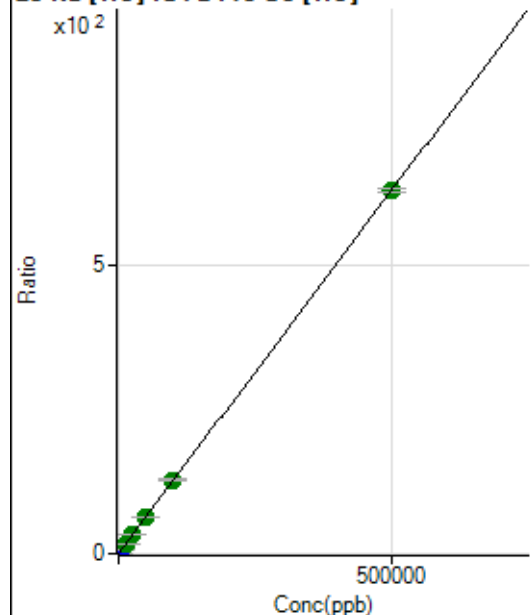
$$DL = 0.2573$$

$$BEC = 0.7805$$

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	27713.08	0.3044	P	2.1
2	☐	500.000	527.296	80038.66	0.9686	P	1.0
3	☐	5000.000	5256.568	615121.76	6.9258	P	1.9
4	☐	12500.000	13605.882	1479461.70	17.4429	A	7.1
5	☐	25000.000	26243.968	2967205.99	33.3622	A	0.6
6	☐	50000.000	50666.872	5854965.19	64.1261	A	2.3
7	☐	100000.00	101616.57	11681433.94	128.3040	A	2.5
8	☐	500000.00	499517.55	56142967.23	629.5130	A	1.0

$$y = 0.0013 * x + 0.3044$$

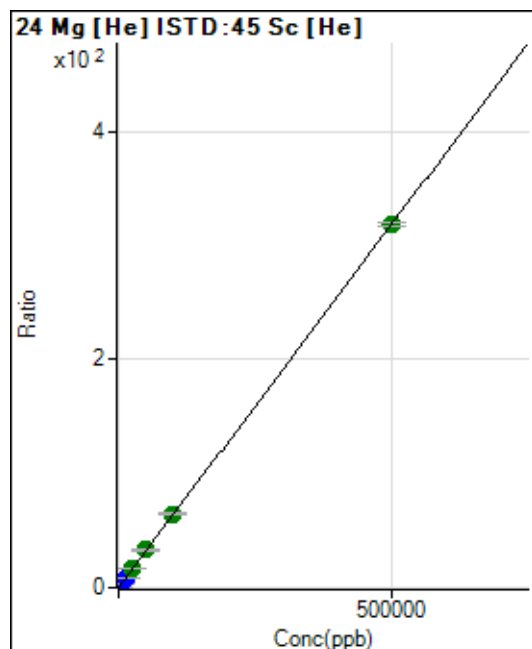
$$R = 1.0000$$

$$DL = 15.15$$

$$BEC = 241.7$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	700.03	0.0077	P	13.4
2	☐	500.000	518.230	27877.30	0.3374	P	1.4
3	☐	5000.000	5267.368	298321.32	3.3587	P	1.5
4	☐	12500.000	13824.238	746961.60	8.8025	P	6.1
5	☐	25000.000	26339.880	1491084.99	16.7648	A	1.8
6	☐	50000.000	51657.034	3001128.43	32.8713	A	2.9
7	☐	100000.00	100864.25	5843227.78	64.1764	A	2.3
8	☐	500000.00	499558.65	28344832.92	317.8211	A	1.0

$$y = 6.3619\text{E-}004 * x + 0.0077$$

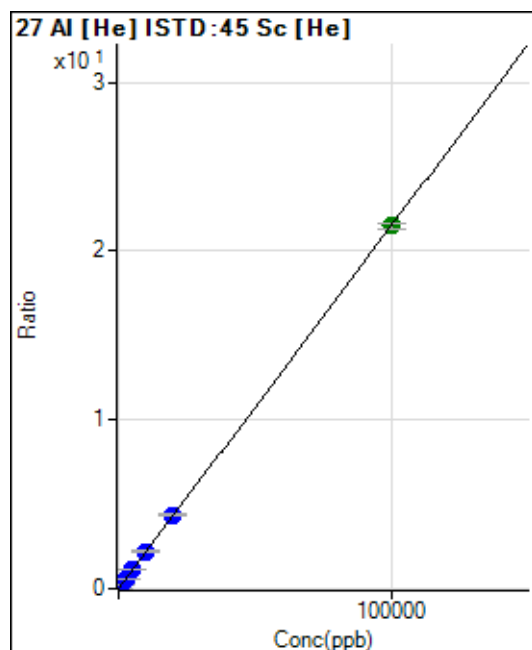
$$R = 1.0000$$

$$DL = 4.867$$

$$BEC = 12.1$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	318.30	0.0035	P	11.4
2	☐	20.000	24.114	717.85	0.0087	P	1.2
3	☐	1000.000	1033.104	20049.57	0.2258	P	3.0
4	☐	2500.000	2695.811	49514.79	0.5835	P	6.0
5	☐	5000.000	5154.983	98949.08	1.1126	P	0.5
6	☐	10000.000	10273.917	202140.70	2.2139	P	2.0
7	☐	20000.000	20261.865	397159.57	4.3627	P	3.0
8	☐	100000.00	99907.259	1917223.87	21.4979	A	1.5

$$y = 2.1514\text{E-}004 * x + 0.0035$$

$$R = 1.0000$$

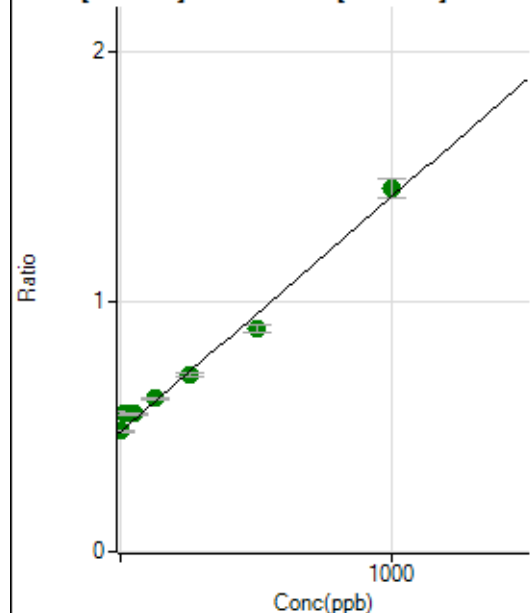
$$DL = 5.549$$

$$BEC = 16.26$$

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	1201016.89	0.4828	A	2.4
2	☐	10.000	73.641	1260371.21	0.5522	A	2.6
3	☐	50.000	75.935	1371774.67	0.5544	A	1.3
4	☐	125.000	141.041	1490128.06	0.6157	A	1.2
5	☐	250.000	243.383	1765786.76	0.7122	A	2.2
6	☐	500.000	436.516	2273203.13	0.8943	A	2.8
7	☐	1000.000	1029.458	3809673.17	1.4534	A	5.3
8	☐			1374964.81	0.5275	A	2.4

$$y = 9.4282\text{E-}004 * x + 0.4828$$

R = 0.9942

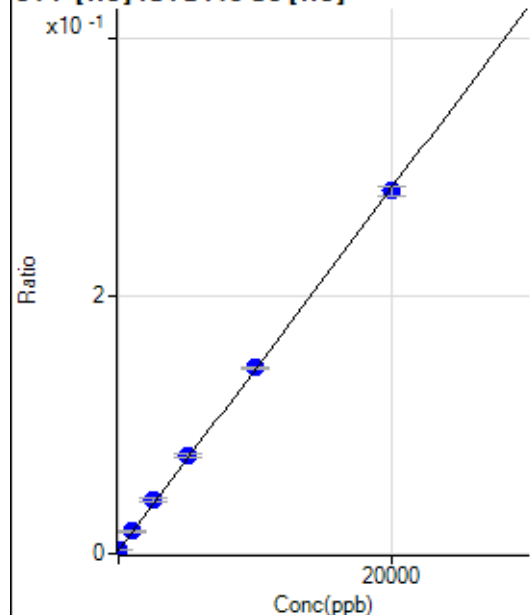
DL = 36.59

BEC = 512

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	7.655	227.78	0.0025	P	11.6
2	☐	0.000	-7.655	188.90	0.0023	P	3.6
3	☐	1000.000	1075.248	1555.68	0.0175	P	8.3
4	☐	2500.000	2811.040	3564.43	0.0419	P	9.3
5	☐	5000.000	5248.499	6776.75	0.0762	P	2.7
6	☐	10000.000	10087.418	13172.99	0.1442	P	0.6
7	☐	20000.000	19851.524	25634.22	0.2815	P	2.5
8	☐			277.79	0.0031	P	10.4

$$y = 1.4062\text{E-}005 * x + 0.0024$$

R = 0.9998

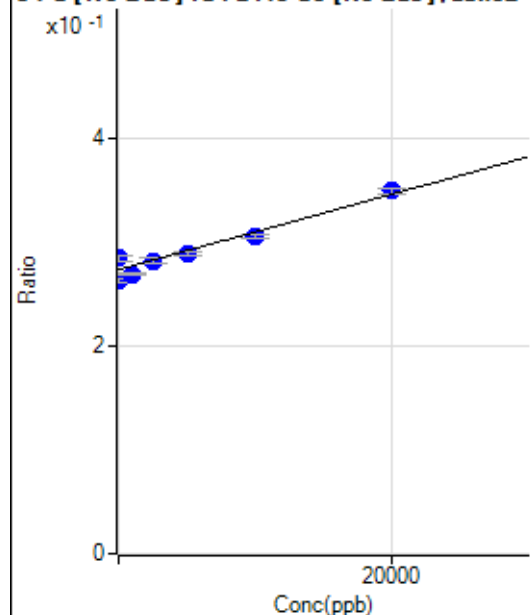
DL = 39.63

BEC = 170.3

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	-2945.879	652971.83	0.2625	P	1.2
2	☐	0.000	2945.879	647782.95	0.2838	P	1.8
3	☐	1000.000	-1236.189	664787.31	0.2686	P	0.9
4	☐	2500.000	2370.016	681634.41	0.2817	P	1.4
5	☐	5000.000	4053.559	713417.33	0.2878	P	1.5
6	☐	10000.000	8978.532	776808.24	0.3056	P	1.2
7	☐	20000.000	20875.402	913847.97	0.3486	P	1.8
8	☐			595456.49	0.2284	P	0.8

$$y = 3.6174\text{E-}006 * x + 0.2731$$

$$R = 0.9704$$

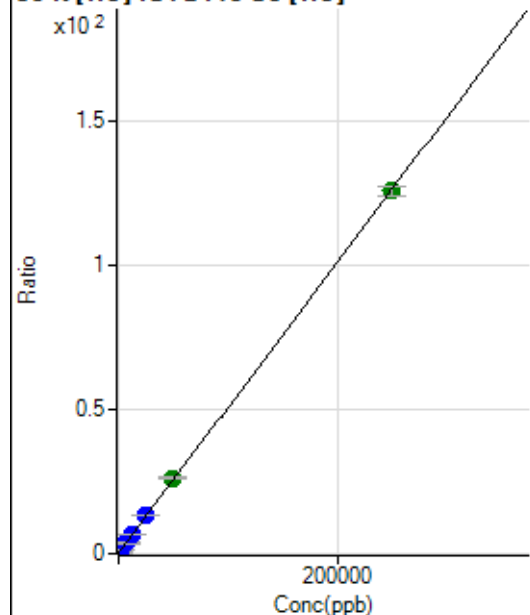
$$DL = 3379$$

$$BEC = 7.55\text{E}+04$$

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	23995.44	0.2636	P	1.7
2	☐	500.000	539.082	44237.87	0.5354	P	1.6
3	☐	2500.000	2646.077	141906.32	1.5978	P	2.1
4	☐	6250.000	6915.296	318200.78	3.7503	P	6.3
5	☐	12500.000	13322.174	620852.56	6.9807	P	0.7
6	☐	25000.000	26323.122	1235882.55	13.5359	P	2.1
7	☐	50000.000	51691.818	2396528.70	26.3270	A	3.3
8	☐	250000.00	249470.04	11240555.63	126.0483	A	2.8

$$y = 5.0421\text{E-}004 * x + 0.2636$$

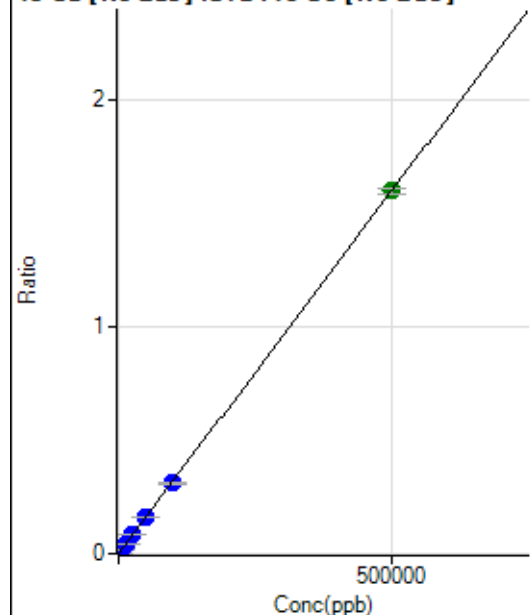
$$R = 1.0000$$

$$DL = 27.29$$

$$BEC = 522.8$$

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	464.95	0.0002	P	4.8
2	☐	500.000	495.303	4039.25	0.0018	P	1.8
3	☐	5000.000	4912.821	39308.67	0.0159	P	0.1
4	☐	12500.000	12737.461	98935.89	0.0409	P	1.3
5	☐	25000.000	25824.528	205001.41	0.0827	P	2.4
6	☐	50000.000	50537.067	410931.66	0.1617	P	1.7
7	☐	100000.00	97430.537	816498.13	0.3115	P	1.9
8	☐	500000.00	500413.89	4168665.20	1.5991	A	1.3

$$y = 3.1953\text{E-}006 * x + 1.8684\text{E-}004$$

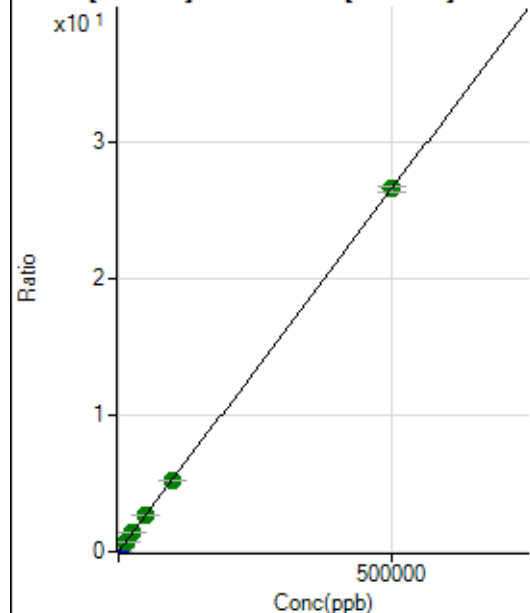
$$R = 1.0000$$

$$DL = 8.389$$

$$BEC = 58.47$$

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	17567.06	0.0071	P	2.1
2	☐	500.000	510.196	77820.61	0.0341	P	2.3
3	☐	5000.000	5019.399	675583.30	0.2730	P	0.6
4	☐	12500.000	13060.125	1691453.82	0.6990	A	1.9
5	☐	25000.000	26235.293	3463084.44	1.3971	A	2.4
6	☐	50000.000	50754.509	6853561.02	2.6962	A	1.2
7	☐	100000.00	97689.496	13586275.90	5.1830	A	1.5
8	☐	500000.00	500310.67	69121096.22	26.5154	A	1.4

$$y = 5.2984\text{E-}005 * x + 0.0071$$

$$R = 1.0000$$

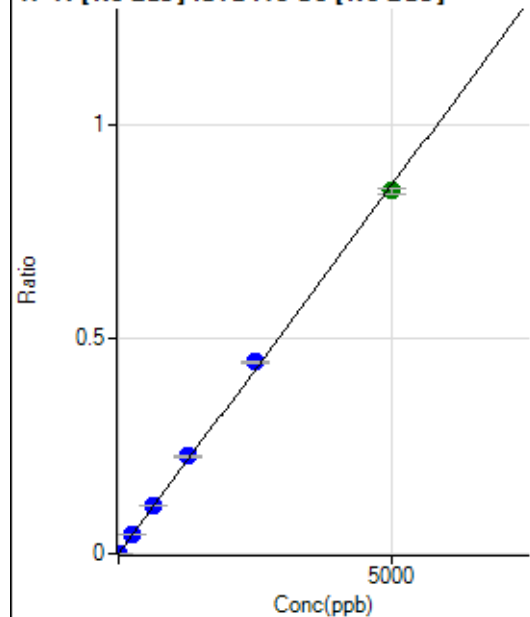
$$DL = 8.262$$

$$BEC = 133.3$$

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	375.02	0.0002	P	16.6
2	☐	5.000	5.239	2394.71	0.0010	P	6.4
3	☐	250.000	256.222	109069.32	0.0441	P	0.0
4	☐	625.000	657.162	272984.47	0.1128	P	0.4
5	☐	1250.000	1322.693	562409.58	0.2269	P	2.9
6	☐	2500.000	2600.337	1133523.11	0.4459	P	1.0
7	☐	5000.000	4927.327	2214698.06	0.8448	A	1.2
8	☐			800.05	0.0003	P	5.3

$$y = 1.7143\text{E-}004 * x + 1.5053\text{E-}004$$

$$R = 0.9996$$

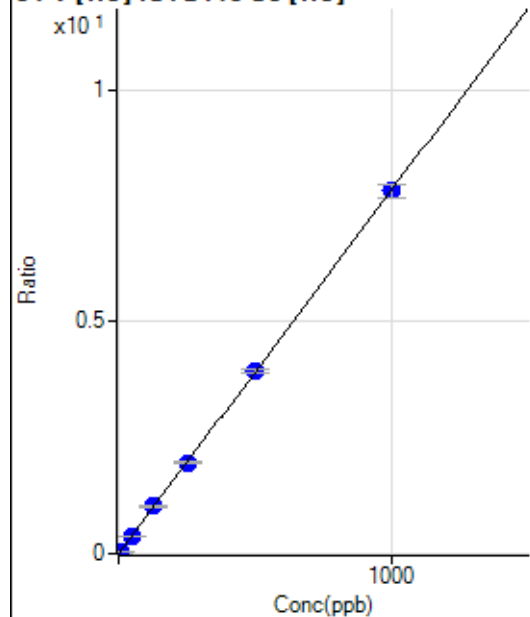
$$DL = 0.4372$$

$$BEC = 0.8781$$

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	12.22	0.0001	P	40.3
2	☐	5.000	4.989	3243.74	0.0392	P	1.9
3	☐	50.000	49.232	34292.25	0.3861	P	2.9
4	☐	125.000	129.977	86463.72	1.0192	P	6.7
5	☐	250.000	250.737	174860.02	1.9661	P	0.8
6	☐	500.000	502.446	359713.14	3.9396	P	1.7
7	☐	1000.000	998.009	712289.90	7.8251	P	3.5
8	☐			180.00	0.0020	P	16.6

$$y = 0.0078 * x + 1.3366\text{E-}004$$

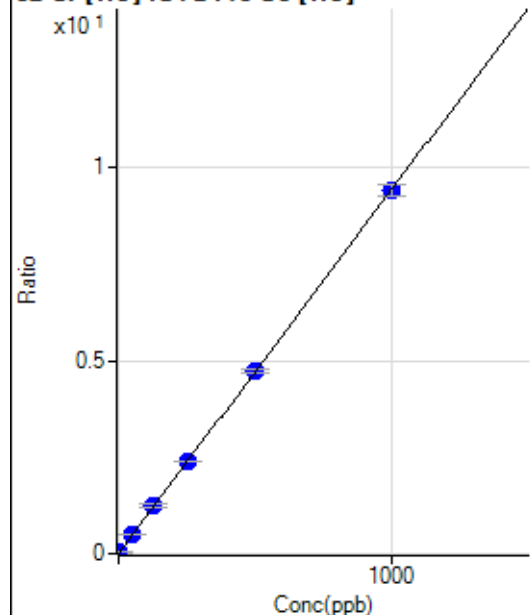
$$R = 1.0000$$

$$DL = 0.02063$$

$$BEC = 0.01705$$

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	542.24	0.0060	P	9.2
2	☐	2.000	2.185	2191.31	0.0265	P	5.1
3	☐	50.000	50.351	42615.49	0.4798	P	2.4
4	☐	125.000	131.405	105429.08	1.2427	P	6.5
5	☐	250.000	252.309	211727.13	2.3806	P	0.4
6	☐	500.000	503.366	433103.57	4.7434	P	1.8
7	☐	1000.000	996.921	854643.27	9.3886	P	3.3
8	☐			4332.92	0.0486	P	5.8

$$y = 0.0094 * x + 0.0060$$

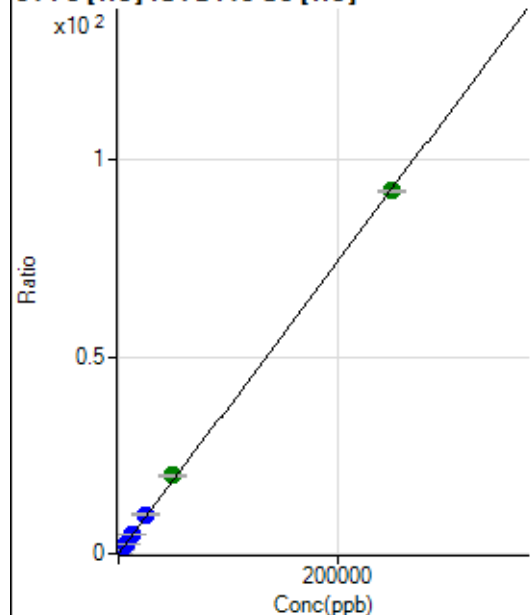
$$R = 1.0000$$

$$DL = 0.174$$

$$BEC = 0.6324$$

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	357.42	0.0039	P	8.9
2	☐	50.000	54.221	1983.51	0.0240	P	5.4
3	☐	2500.000	2685.841	88679.03	0.9984	P	1.8
4	☐	6250.000	6975.479	219355.03	2.5868	P	7.6
5	☐	12500.000	13541.454	446292.71	5.0180	P	0.2
6	☐	25000.000	27030.205	914224.48	10.0126	P	1.6
7	☐	50000.000	53592.986	1806782.86	19.8482	A	3.4
8	☐	250000.00	249006.31	8223795.61	92.2052	A	0.2

$$y = 3.7028E-004 * x + 0.0039$$

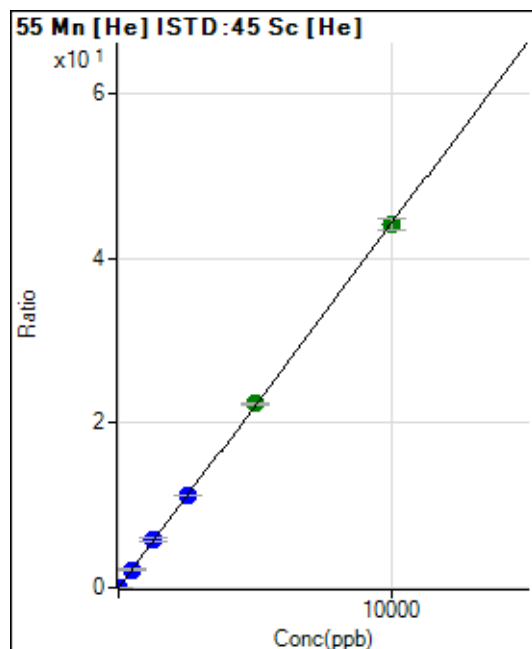
$$R = 0.9999$$

$$DL = 2.842$$

$$BEC = 10.6$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	85.56	0.0009	P	19.1
2	☐	1.000	0.950	425.57	0.0051	P	6.9
3	☐	500.000	500.723	197142.72	2.2196	P	1.6
4	☐	1250.000	1311.763	493246.11	5.8133	P	6.3
5	☐	2500.000	2545.239	1003113.00	11.2787	P	0.4
6	☐	5000.000	5042.769	2040221.30	22.3451	A	1.9
7	☐	10000.000	9959.550	4017335.11	44.1310	A	3.3
8	☐			2321.32	0.0260	P	1.7

$$y = 0.0044 * x + 9.3980E-004$$

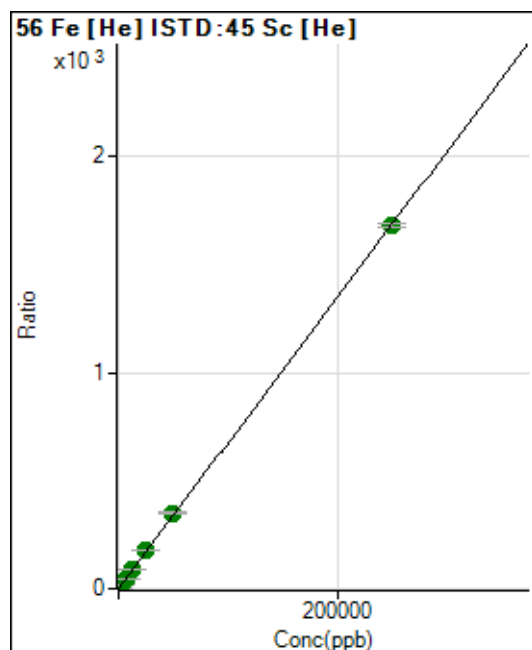
$$R = 1.0000$$

$$DL = 0.1218$$

$$BEC = 0.2121$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2429.88	0.0267	P	6.3
2	☐	50.000	51.579	30870.62	0.3736	P	1.8
3	☐	2500.000	2653.275	1587419.34	17.8740	A	2.5
4	☐	6250.000	6881.760	3931797.51	46.3169	A	5.2
5	☐	12500.000	13275.235	7944296.12	89.3227	A	0.8
6	☐	25000.000	26214.800	16103964.25	176.3607	A	1.4
7	☐	50000.000	52170.792	31946953.03	350.9539	A	3.4
8	☐	250000.00	249388.27	149611940.3	1,677.538	A	0.9

$$y = 0.0067 * x + 0.0267$$

$$R = 1.0000$$

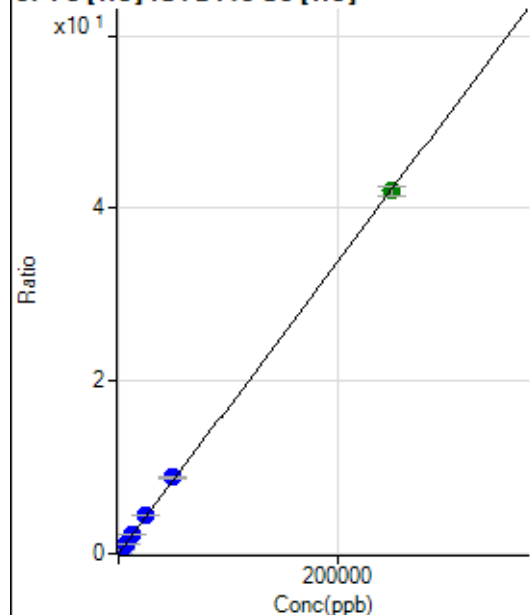
$$DL = 0.7554$$

$$BEC = 3.967$$

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	101.85	0.0011	P	34.7
2	☐	50.000	54.935	857.45	0.0104	P	3.1
3	☐	2500.000	2619.935	39317.30	0.4427	P	3.1
4	☐	6250.000	6913.256	98974.30	1.1664	P	6.1
5	☐	12500.000	13237.850	198549.00	2.2325	P	1.0
6	☐	25000.000	26269.336	404379.05	4.4290	P	2.3
7	☐	50000.000	52302.956	802555.21	8.8172	P	3.7
8	☐	250000.00	249357.80	3748302.17	42.0322	A	2.5

$$y = 1.6856E-004 * x + 0.0011$$

R = 0.9999

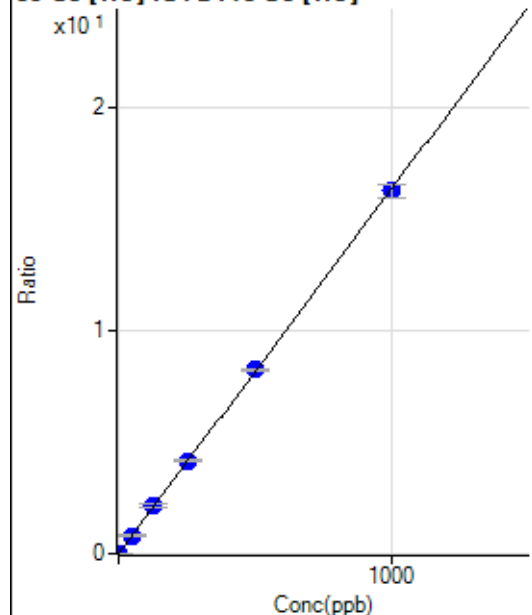
DL = 6.92

BEC = 6.639

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	33.33	0.0004	P	17.3
2	☐	1.000	0.969	1335.63	0.0162	P	6.1
3	☐	50.000	49.927	72371.43	0.8148	P	1.2
4	☐	125.000	132.231	183022.71	2.1573	P	6.7
5	☐	250.000	255.748	371071.18	4.1722	P	0.6
6	☐	500.000	505.435	752859.56	8.2451	P	1.3
7	☐	1000.000	994.945	1477369.15	16.2301	P	3.5
8	☐			2073.50	0.0233	P	6.9

$$y = 0.0163 * x + 3.6619E-004$$

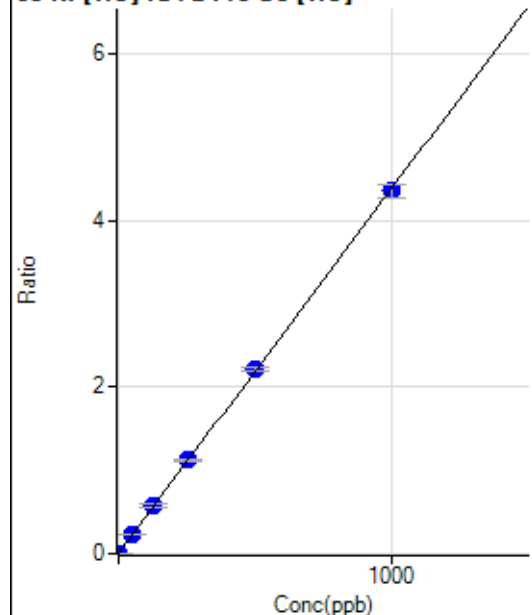
R = 0.9999

DL = 0.01167

BEC = 0.02245

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	318.90	0.0035	P	1.0
2	☐	1.000	1.126	696.69	0.0084	P	12.4
3	☐	50.000	50.201	19821.69	0.2232	P	2.1
4	☐	125.000	131.688	49213.70	0.5797	P	5.2
5	☐	250.000	256.130	99991.48	1.1243	P	1.0
6	☐	500.000	507.111	202925.28	2.2225	P	1.8
7	☐	1000.000	994.066	396272.01	4.3533	P	3.4
8	☐			1701.23	0.0191	P	7.7

$$y = 0.0044 * x + 0.0035$$

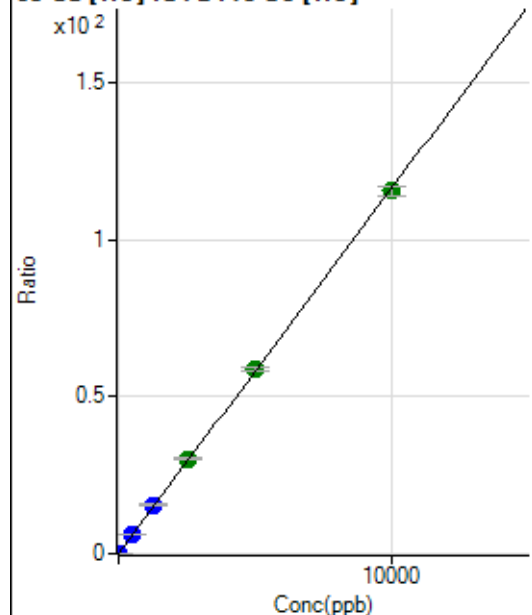
$$R = 0.9999$$

$$DL = 0.02302$$

$$BEC = 0.8004$$

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	737.81	0.0081	P	6.1
2	☐	2.000	2.362	2942.56	0.0356	P	3.9
3	☐	500.000	510.998	529360.93	5.9597	P	1.3
4	☐	1250.000	1336.702	1321844.23	15.5768	P	6.0
5	☐	2500.000	2598.150	2692144.20	30.2690	A	1.4
6	☐	5000.000	5059.712	5381488.39	58.9390	A	1.9
7	☐	10000.000	9934.219	10534592.48	115.7129	A	2.7
8	☐			6577.14	0.0738	P	3.1

$$y = 0.0116 * x + 0.0081$$

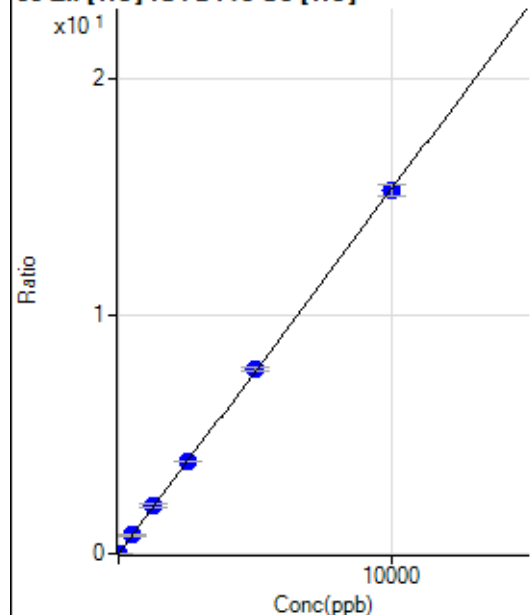
$$R = 0.9999$$

$$DL = 0.1279$$

$$BEC = 0.6961$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	65.56	0.0007	P	26.5
2	☐	2.000	2.029	316.67	0.0038	P	5.7
3	☐	500.000	503.524	68681.02	0.7733	P	2.4
4	☐	1250.000	1322.954	172261.80	2.0306	P	6.7
5	☐	2500.000	2539.697	346643.48	3.8975	P	0.5
6	☐	5000.000	5052.127	707843.45	7.7525	P	2.1
7	☐	10000.000	9954.717	1390509.82	15.2749	P	3.2
8	☐			1546.76	0.0173	P	2.5

$$y = 0.0015 * x + 7.1840E-004$$

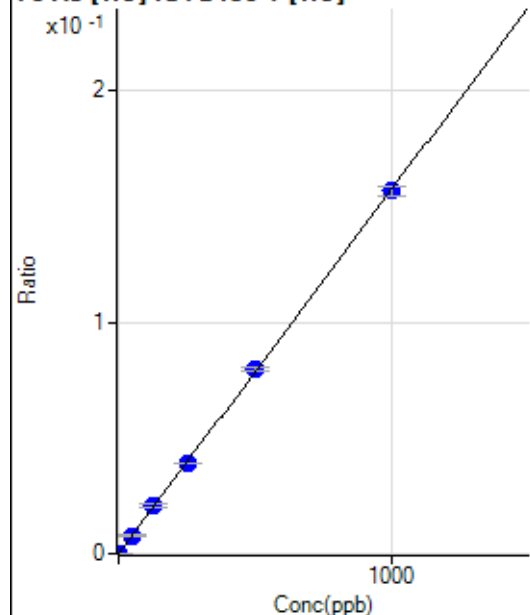
$$R = 0.9999$$

$$DL = 0.3719$$

$$BEC = 0.4682$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	6.67	0.0000	P	23.4
2	☐	1.000	0.969	97.68	0.0002	P	20.4
3	☐	50.000	49.684	5062.09	0.0078	P	2.2
4	☐	125.000	130.061	12666.61	0.0205	P	8.6
5	☐	250.000	249.132	25689.82	0.0392	P	0.5
6	☐	500.000	506.283	53270.74	0.0797	P	1.9
7	☐	1000.000	996.459	105697.54	0.1568	P	3.0
8	☐			40.00	0.0001	P	6.6

$$y = 1.5737E-004 * x + 1.0076E-005$$

$$R = 1.0000$$

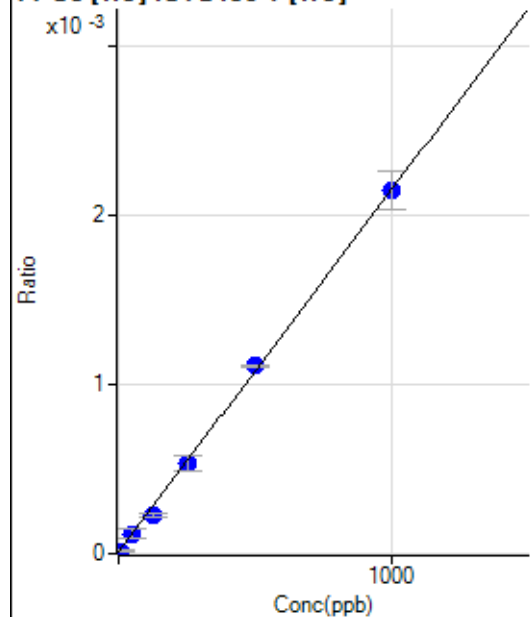
$$DL = 0.04489$$

$$BEC = 0.06403$$

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	6.67	0.0000	P	0.7
2	☐	5.000	2.186	8.89	0.0000	P	56.8
3	☐	50.000	50.806	76.67	0.0001	P	49.8
4	☐	125.000	103.507	144.45	0.0002	P	10.0
5	☐	250.000	245.087	350.01	0.0005	P	15.2
6	☐	500.000	513.930	742.25	0.0011	P	0.6
7	☐	1000.000	996.924	1443.42	0.0021	P	10.6
8	☐			5.56	0.0000	P	91.5

$$y = 2.1405\text{E-}006 * x + 1.0072\text{E-}005$$

$$R = 0.9996$$

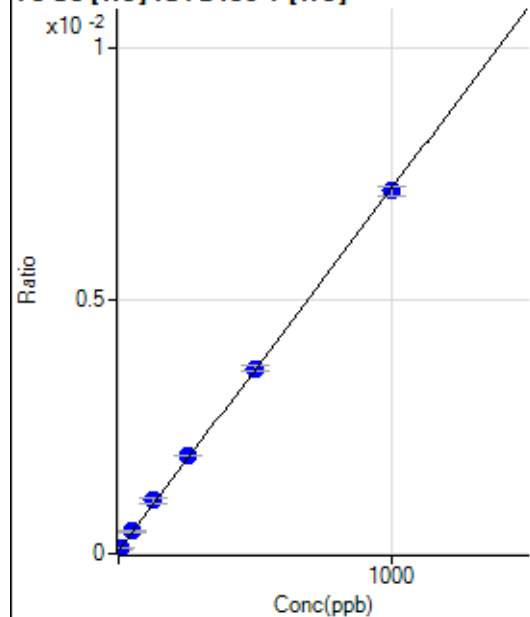
$$DL = 0.1042$$

$$BEC = 4.706$$

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	40.00	0.0001	P	6.9
2	☐	5.000	6.464	64.01	0.0001	P	18.8
3	☐	50.000	53.589	287.03	0.0004	P	6.5
4	☐	125.000	138.673	650.75	0.0011	P	9.9
5	☐	250.000	263.133	1272.86	0.0019	P	1.3
6	☐	500.000	502.967	2446.13	0.0037	P	3.1
7	☐	1000.000	993.337	4831.99	0.0072	P	2.9
8	☐			46.67	0.0001	P	5.0

$$y = 7.1552\text{E-}006 * x + 6.0411\text{E-}005$$

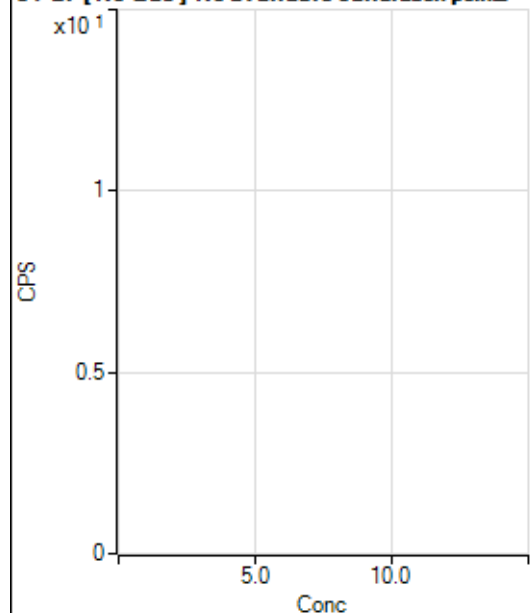
$$R = 0.9998$$

$$DL = 1.746$$

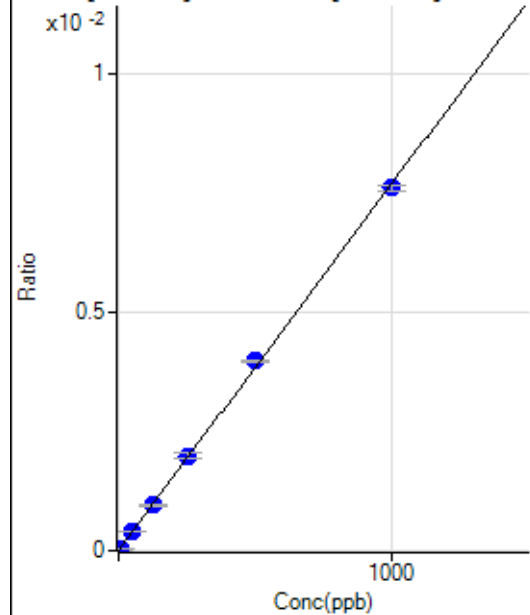
$$BEC = 8.443$$

Weight: <None>

Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			3143.60		P	4.0
2	☐			3056.83		P	4.2
3	☐			3126.90		P	3.2
4	☐			3173.65		P	12.6
5	☐			3073.52		P	8.5
6	☐			3026.79		P	2.3
7	☐			3333.84		P	6.9
8	☐			3447.30		P	3.7

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	31.76	0.0000	P	434.
2	☐	5.000	3.231	170.30	0.0000	P	30.3
3	☐	50.000	51.023	2435.40	0.0004	P	1.0
4	☐	125.000	124.907	5861.17	0.0010	P	3.6
5	☐	250.000	258.349	12423.79	0.0020	P	5.0
6	☐	500.000	516.428	25077.48	0.0040	P	0.9
7	☐	1000.000	989.668	49814.20	0.0076	P	1.7
8	☐			119.39	0.0000	P	72.3

$$y = 7.6936E-006 * x + 5.1712E-006$$

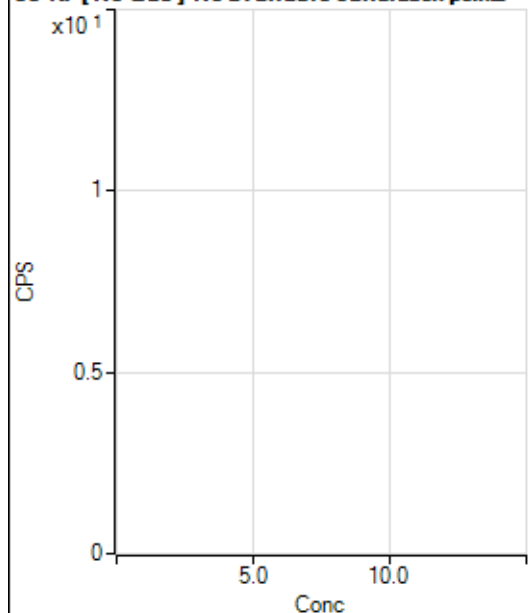
$$R = 0.9997$$

$$DL = 8.759$$

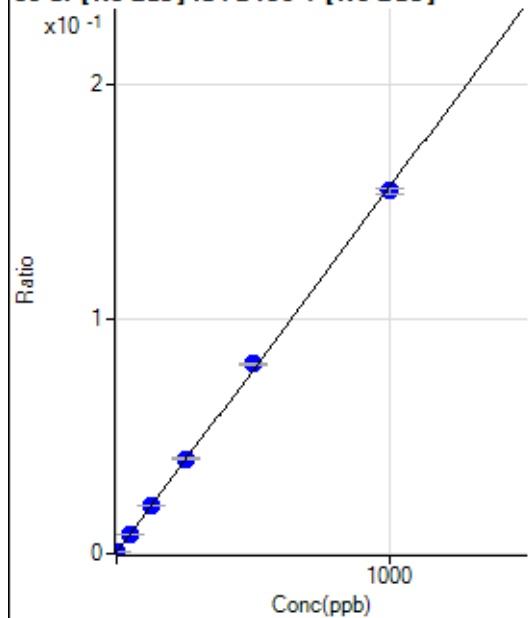
$$BEC = 0.6722$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1826.81		P	6.8
2	☐			1917.93		P	2.0
3	☐			1943.49		P	1.3
4	☐			1965.71		P	4.8
5	☐			1872.37		P	2.1
6	☐			1900.15		P	4.0
7	☐			1833.48		P	7.9
8	☐			1774.58		P	2.8

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	2922.62	0.0005	P	3.8
2	☐	1.000	1.376	3942.31	0.0007	P	9.7
3	☐	50.000	50.319	50912.61	0.0083	P	1.1
4	☐	125.000	128.029	123867.19	0.0204	P	2.4
5	☐	250.000	257.363	252919.10	0.0406	P	4.0
6	☐	500.000	516.025	509546.91	0.0808	P	1.4
7	☐	1000.000	989.752	1010764.63	0.1546	P	1.9
8	☐			8647.35	0.0013	P	2.6

$$y = 1.5573E-004 * x + 4.7818E-004$$

$$R = 0.9998$$

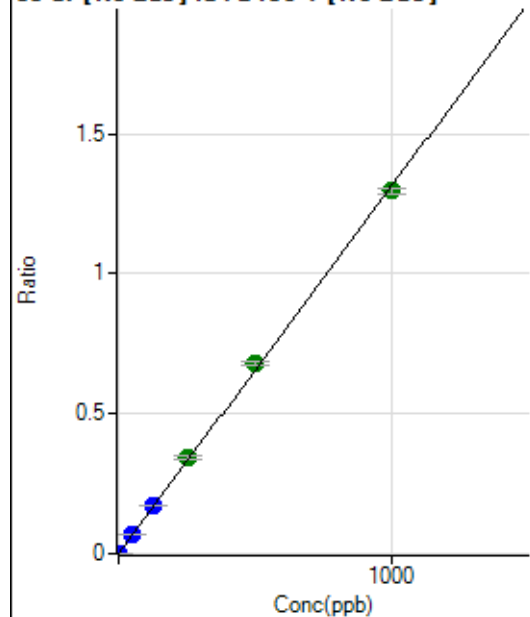
$$DL = 0.3482$$

$$BEC = 3.071$$

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	122.23	0.0000	P	37.5
2	☐	1.000	1.040	7882.97	0.0014	P	2.7
3	☐	50.000	51.280	412044.86	0.0673	P	0.4
4	☐	125.000	130.817	1041350.22	0.1716	P	1.5
5	☐	250.000	262.692	2149148.68	0.3446	A	4.0
6	☐	500.000	516.994	4274897.19	0.6782	A	1.7
7	☐	1000.000	987.539	8469437.17	1.2955	A	1.7
8	☐			49471.65	0.0077	P	0.9

$$y = 0.0013 * x + 1.9998E-005$$

$$R = 0.9997$$

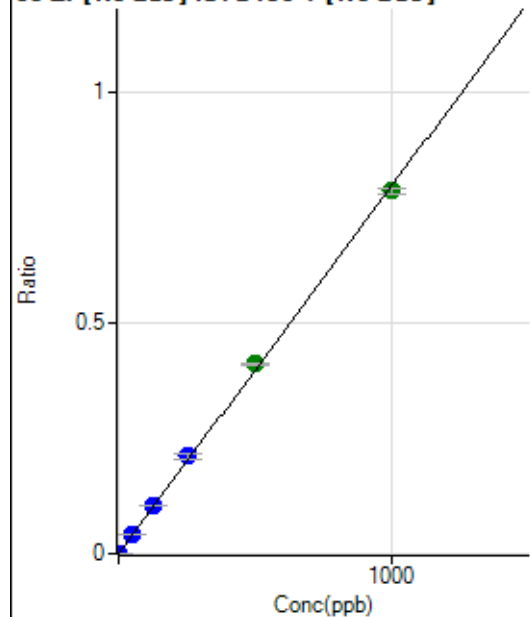
$$DL = 0.01717$$

$$BEC = 0.01524$$

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	247.23	0.0000	P	7.1
2	☐	1.000	1.002	4784.30	0.0008	P	0.4
3	☐	50.000	51.266	250663.75	0.0409	P	1.1
4	☐	125.000	130.737	633013.59	0.1043	P	1.4
5	☐	250.000	264.642	1316657.48	0.2111	P	4.4
6	☐	500.000	516.794	2598730.05	0.4123	A	1.2
7	☐	1000.000	987.162	5148399.11	0.7875	A	1.5
8	☐			2203.03	0.0003	P	10.5

$$y = 7.9768E-004 * x + 4.0452E-005$$

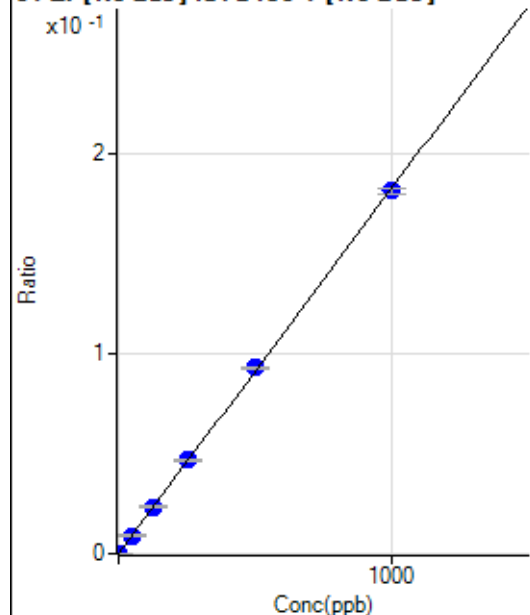
$$R = 0.9997$$

$$DL = 0.01073$$

$$BEC = 0.05071$$

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	66.67	0.0000	P	57.3
2	☐	1.000	1.014	1116.74	0.0002	P	9.0
3	☐	50.000	49.638	55664.66	0.0091	P	2.2
4	☐	125.000	128.389	142563.01	0.0235	P	1.7
5	☐	250.000	256.157	292304.18	0.0469	P	3.4
6	☐	500.000	508.764	586660.59	0.0931	P	1.7
7	☐	1000.000	993.673	1188438.33	0.1818	P	1.4
8	☐			613.92	0.0001	P	5.0

$$y = 1.8292E-004 * x + 1.0904E-005$$

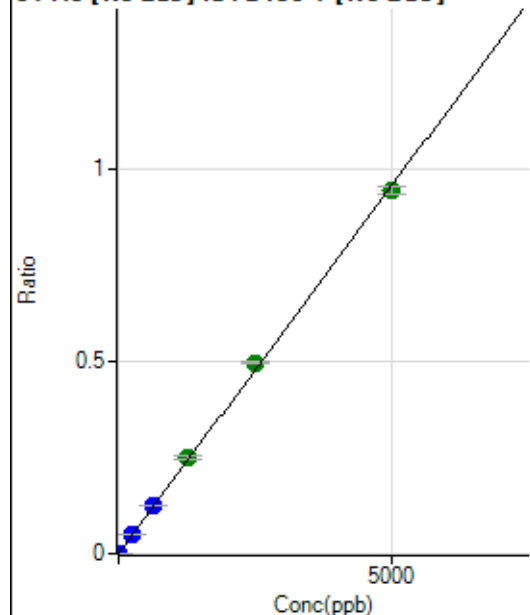
$$R = 0.9999$$

$$DL = 0.1024$$

$$BEC = 0.05961$$

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	80.56	0.0000	P	15.6
2	☐	5.000	5.278	5804.17	0.0010	P	6.8
3	☐	250.000	255.038	298058.98	0.0487	P	1.3
4	☐	625.000	656.366	759989.64	0.1253	P	1.5
5	☐	1250.000	1312.361	1561732.28	0.2504	A	3.7
6	☐	2500.000	2592.416	3118041.02	0.4947	A	1.2
7	☐	5000.000	4934.029	6155000.36	0.9414	A	2.2
8	☐			2286.37	0.0004	P	13.7

$$y = 1.9080E-004 * x + 1.3178E-005$$

$$R = 0.9996$$

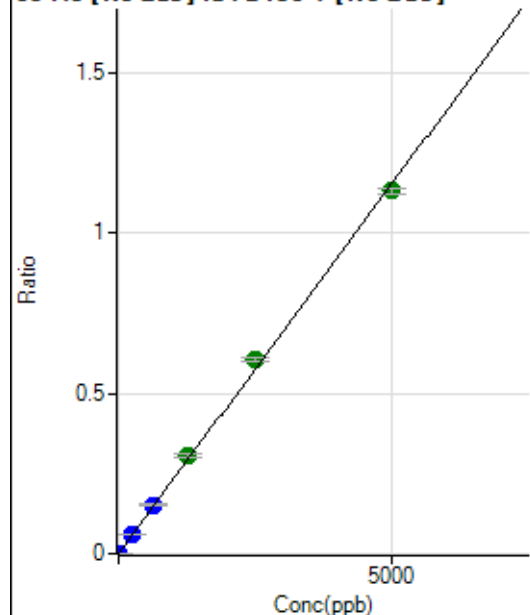
$$DL = 0.03236$$

$$BEC = 0.06907$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	5.56	0.0000	P	173.
2	☐	5.000	5.241	6882.45	0.0012	P	7.6
3	☐	250.000	257.301	363452.23	0.0594	P	0.1
4	☐	625.000	662.493	927258.52	0.1528	P	1.4
5	☐	1250.000	1329.213	1911683.79	0.3066	A	4.6
6	☐	2500.000	2627.858	3820845.22	0.6062	A	1.7
7	☐	5000.000	4911.216	7406771.00	1.1329	A	1.5
8	☐			2730.90	0.0004	P	16.4

$$y = 2.3067E-004 * x + 9.1099E-007$$

$$R = 0.9993$$

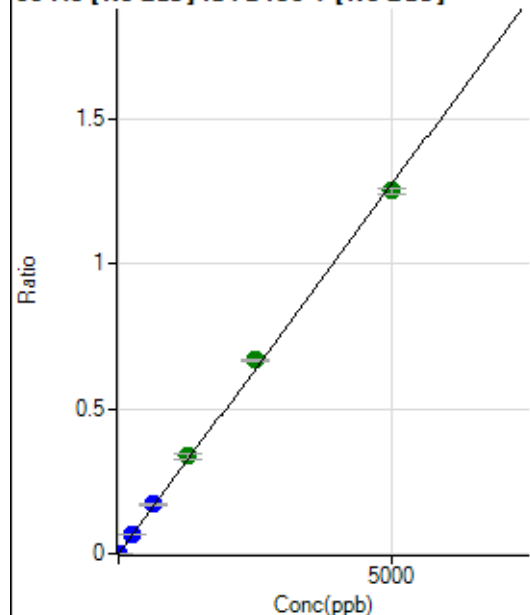
$$DL = 0.02052$$

$$BEC = 0.003949$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	55.56	0.0000	P	17.3
2	☐	5.000	5.166	7527.26	0.0013	P	4.5
3	☐	250.000	257.852	401438.85	0.0656	P	0.5
4	☐	625.000	664.535	1025007.99	0.1689	P	1.7
5	☐	1250.000	1320.090	2092090.37	0.3356	A	5.1
6	☐	2500.000	2622.155	4201626.57	0.6666	A	1.3
7	☐	5000.000	4916.065	8170249.40	1.2497	A	1.6
8	☐			3492.22	0.0005	P	12.7

$$y = 2.5420E-004 * x + 9.0897E-006$$

$$R = 0.9994$$

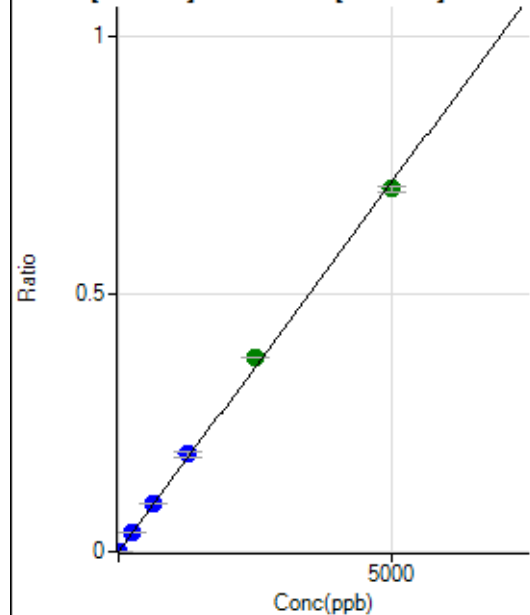
$$DL = 0.01857$$

$$BEC = 0.03576$$

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	5.56	0.0000	P	173.
2	☐	5.000	4.960	4050.69	0.0007	P	3.3
3	☐	250.000	254.292	223032.56	0.0364	P	1.3
4	☐	625.000	653.777	568165.65	0.0936	P	2.0
5	☐	1250.000	1316.526	1175586.92	0.1886	P	5.2
6	☐	2500.000	2631.200	2375658.45	0.3769	A	0.6
7	☐	5000.000	4913.957	4601272.41	0.7038	A	1.9
8	☐			1569.58	0.0002	P	8.6

$$y = 1.4323\text{E-}004 * x + 9.1099\text{E-}007$$

$$R = 0.9994$$

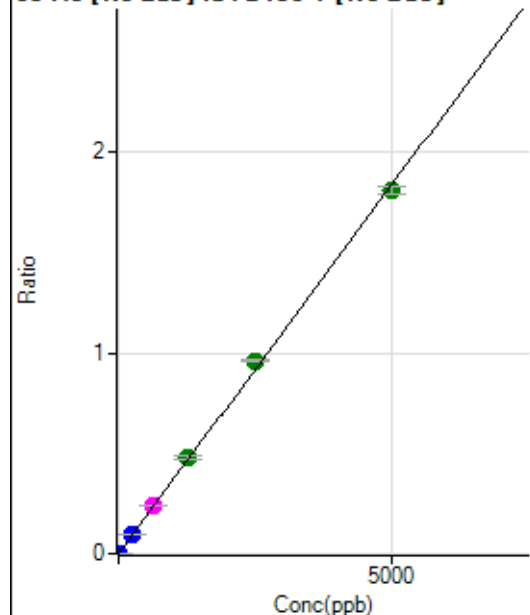
$$DL = 0.03305$$

$$BEC = 0.00636$$

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	22.22	0.0000	P	78.0
2	☐	5.000	5.392	11288.22	0.0020	P	1.9
3	☐	250.000	256.469	576357.53	0.0941	P	1.3
4	☐	625.000	659.000	1467501.69	0.2418	M	1.2
5	☐	1250.000	1306.875	2990887.15	0.4796	A	4.0
6	☐	2500.000	2618.406	6057034.94	0.9609	A	1.7
7	☐	5000.000	4922.005	11808599.92	1.8063	A	2.1
8	☐			4195.23	0.0006	P	14.1

$$y = 3.6699\text{E-}004 * x + 3.6367\text{E-}006$$

$$R = 0.9995$$

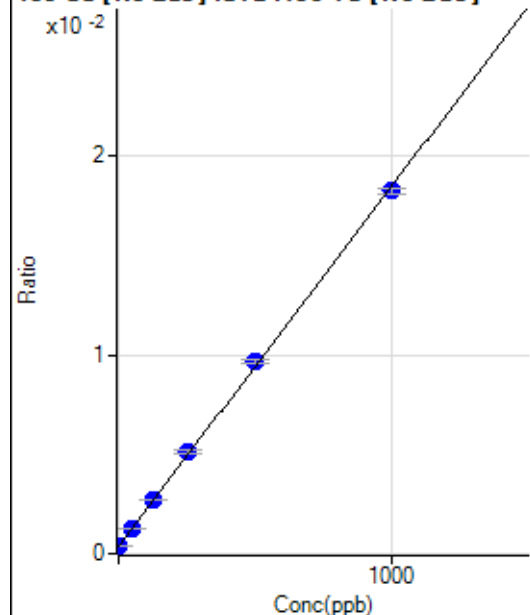
$$DL = 0.0232$$

$$BEC = 0.00991$$

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	1405.67	0.0004	P	1.3
2	☐	1.000	0.655	1355.66	0.0004	P	6.2
3	☐	50.000	49.398	4842.66	0.0013	P	3.3
4	☐	125.000	130.143	10443.08	0.0027	P	0.9
5	☐	250.000	263.225	19953.76	0.0051	P	2.8
6	☐	500.000	516.505	38994.59	0.0097	P	1.9
7	☐	1000.000	987.829	75090.29	0.0182	P	1.4
8	☐			1547.36	0.0004	P	5.8

$$y = 1.8086E-005 * x + 3.6343E-004$$

$$R = 0.9997$$

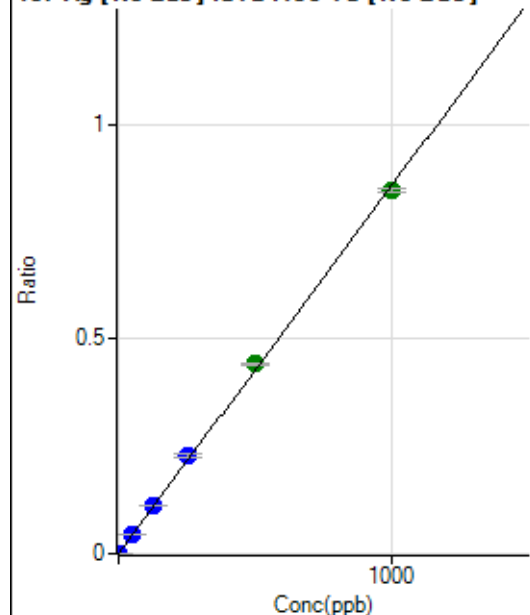
$$DL = 0.8126$$

$$BEC = 20.1$$

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	22.22	0.0000	P	43.9
2	☐	1.000	1.037	3228.24	0.0009	P	4.1
3	☐	50.000	52.277	172746.46	0.0448	P	1.5
4	☐	125.000	131.740	434273.07	0.1130	P	0.9
5	☐	250.000	268.184	895332.71	0.2300	P	4.4
6	☐	500.000	516.165	1778903.97	0.4427	A	0.8
7	☐	1000.000	986.415	3485013.66	0.8460	A	1.1
8	☐			1389.00	0.0003	P	3.2

$$y = 8.5765E-004 * x + 5.7555E-006$$

$$R = 0.9996$$

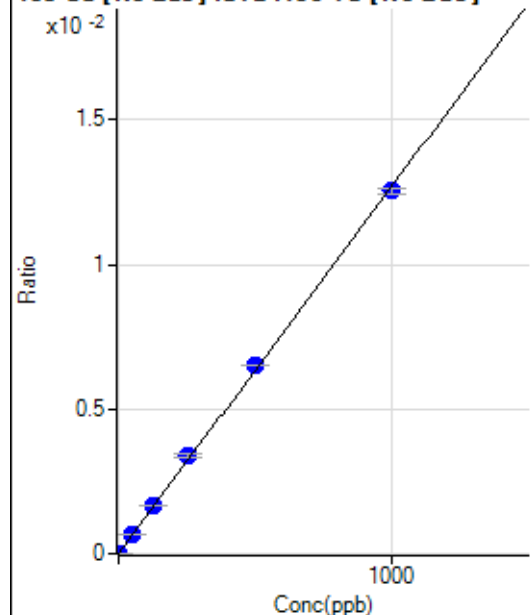
$$DL = 0.008837$$

$$BEC = 0.006711$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	11.11	0.0000	P	78.6
2	☐	1.000	1.104	61.11	0.0000	P	16.4
3	☐	50.000	50.422	2473.87	0.0006	P	2.6
4	☐	125.000	131.399	6414.08	0.0017	P	1.2
5	☐	250.000	267.906	13232.86	0.0034	P	4.7
6	☐	500.000	511.909	26095.67	0.0065	P	0.3
7	☐	1000.000	988.748	51658.83	0.0125	P	1.5
8	☐			59.72	0.0000	P	17.9

$$y = 1.2680\text{E-}005 * x + 2.8780\text{E-}006$$

$$R = 0.9997$$

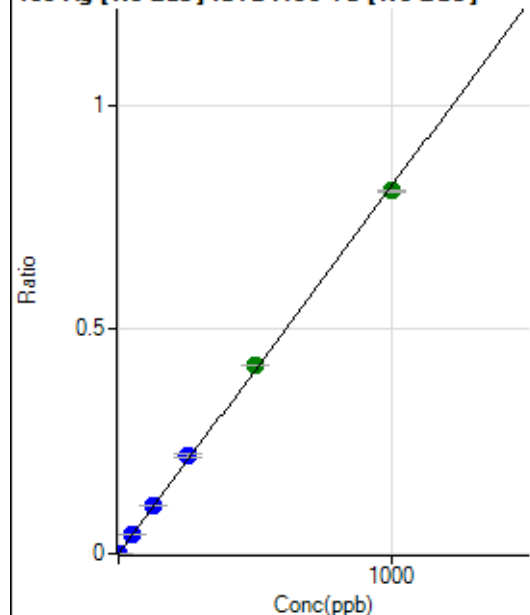
$$DL = 0.5354$$

$$BEC = 0.227$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	22.22	0.0000	P	86.6
2	☐	1.000	0.937	2792.03	0.0008	P	8.2
3	☐	50.000	51.539	162688.48	0.0422	P	0.6
4	☐	125.000	130.998	412372.22	0.1073	P	2.6
5	☐	250.000	266.464	849906.77	0.2183	P	3.7
6	☐	500.000	514.877	1695098.32	0.4218	A	0.1
7	☐	1000.000	987.619	3333180.35	0.8091	A	0.8
8	☐			1336.22	0.0003	P	2.3

$$y = 8.1925\text{E-}004 * x + 5.7276\text{E-}006$$

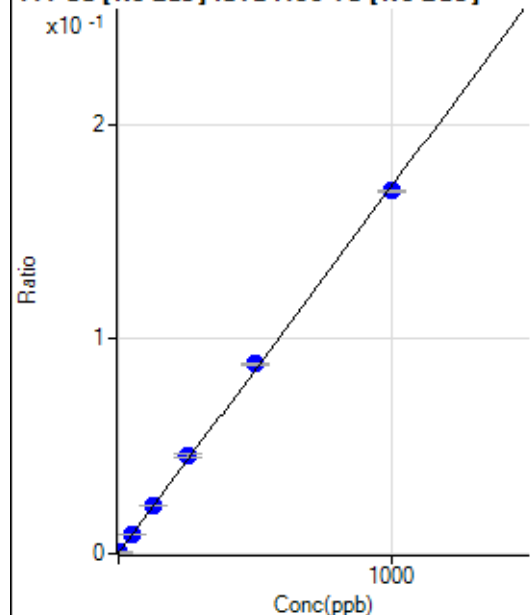
$$R = 0.9997$$

$$DL = 0.01817$$

$$BEC = 0.006991$$

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	987.30	0.0003	P	2.3
2	☐	1.000	1.142	1625.66	0.0005	P	1.8
3	☐	50.000	50.158	33973.89	0.0088	P	1.0
4	☐	125.000	129.283	85803.23	0.0223	P	1.4
5	☐	250.000	264.283	176650.36	0.0454	P	3.9
6	☐	500.000	515.977	355005.59	0.0883	P	1.2
7	☐	1000.000	987.897	695853.40	0.1689	P	0.7
8	☐			1401.08	0.0003	P	4.0

$$y = 1.7073\text{E-}004 * x + 2.5527\text{E-}004$$

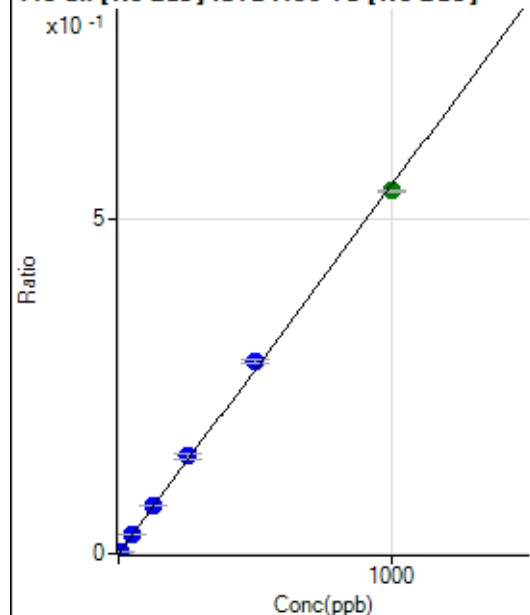
$$R = 0.9997$$

$$DL = 0.1052$$

$$BEC = 1.495$$

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	163.89	0.0000	P	13.5
2	☐	5.000	5.083	10234.69	0.0028	P	3.0
3	☐	50.000	51.775	109721.07	0.0285	P	2.4
4	☐	125.000	129.183	272880.48	0.0710	P	1.2
5	☐	250.000	264.142	564829.65	0.1451	P	5.3
6	☐	500.000	521.350	1150934.64	0.2864	P	1.6
7	☐	1000.000	985.177	2229566.33	0.5412	A	0.7
8	☐			1200.09	0.0003	P	6.9

$$y = 5.4932\text{E-}004 * x + 4.2408\text{E-}005$$

$$R = 0.9995$$

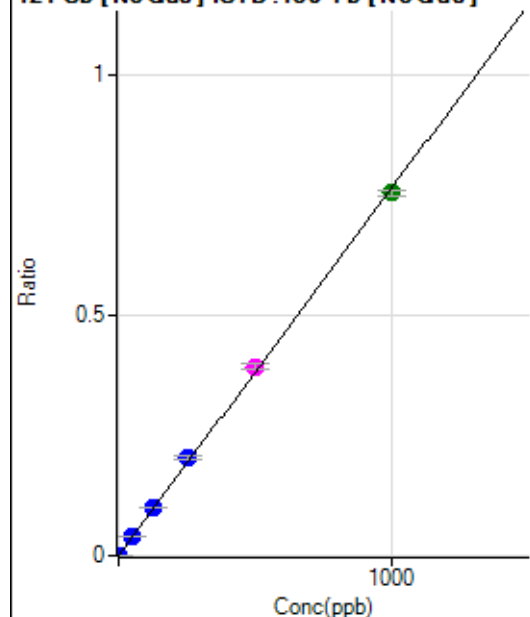
$$DL = 0.03137$$

$$BEC = 0.0772$$

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	50.5
2	☐	2.000	1.948	5373.42	0.0015	P	7.1
3	☐	50.000	50.824	149402.23	0.0388	P	2.0
4	☐	125.000	129.944	381051.08	0.0992	P	1.1
5	☐	250.000	266.459	791404.67	0.2033	P	4.5
6	☐	500.000	514.978	1578775.98	0.3929	M	2.7
7	☐	1000.000	987.737	3104719.77	0.7537	A	1.6
8	☐			2397.50	0.0006	P	3.1

$$y = 7.6302\text{E-}004 * x + 4.3203\text{E-}006$$

$$R = 0.9997$$

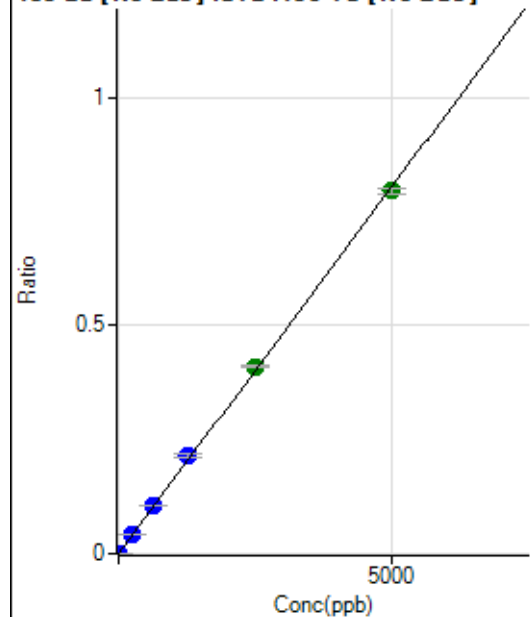
$$DL = 0.008573$$

$$BEC = 0.005662$$

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	19.44	0.0000	P	65.8
2	☐	10.000	10.247	5951.48	0.0016	P	4.6
3	☐	250.000	253.223	156600.93	0.0406	P	1.8
4	☐	625.000	647.839	399593.92	0.1040	P	1.3
5	☐	1250.000	1334.752	833833.58	0.2142	P	4.7
6	☐	2500.000	2549.923	1644514.90	0.4093	A	1.1
7	☐	5000.000	4950.834	3273203.59	0.7946	A	1.4
8	☐			1188.98	0.0003	P	10.5

$$y = 1.6050\text{E-}004 * x + 5.0293\text{E-}006$$

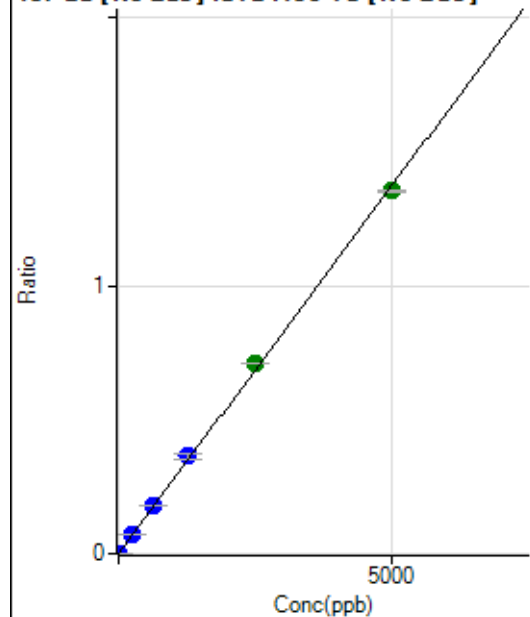
$$R = 0.9998$$

$$DL = 0.06189$$

$$BEC = 0.03134$$

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	44.45	0.0000	P	47.4
2	☐	10.000	10.010	9937.23	0.0028	P	4.0
3	☐	250.000	256.861	271205.41	0.0704	P	0.7
4	☐	625.000	651.908	686506.16	0.1786	P	1.8
5	☐	1250.000	1324.262	1412455.15	0.3629	P	4.7
6	☐	2500.000	2582.143	2843354.15	0.7076	A	0.3
7	☐	5000.000	4936.656	5572695.83	1.3528	A	0.5
8	☐			2025.23	0.0005	P	4.1

$$y = 2.7402E-004 * x + 1.1493E-005$$

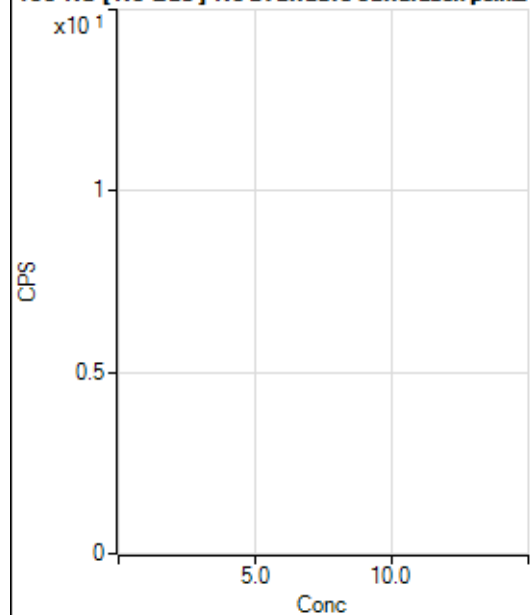
$$R = 0.9997$$

$$DL = 0.05969$$

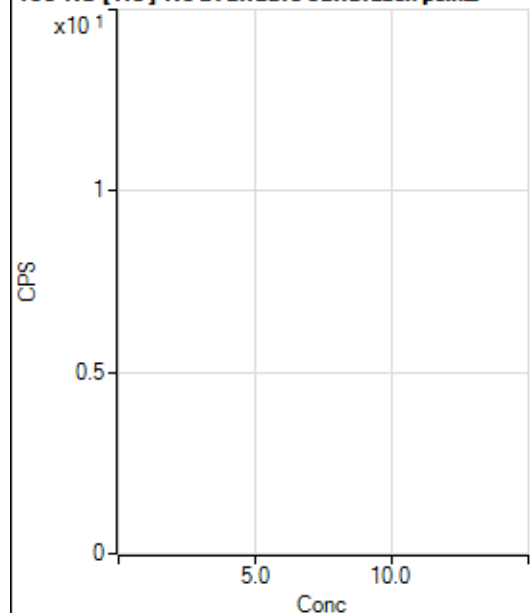
$$BEC = 0.04194$$

Weight: <None>

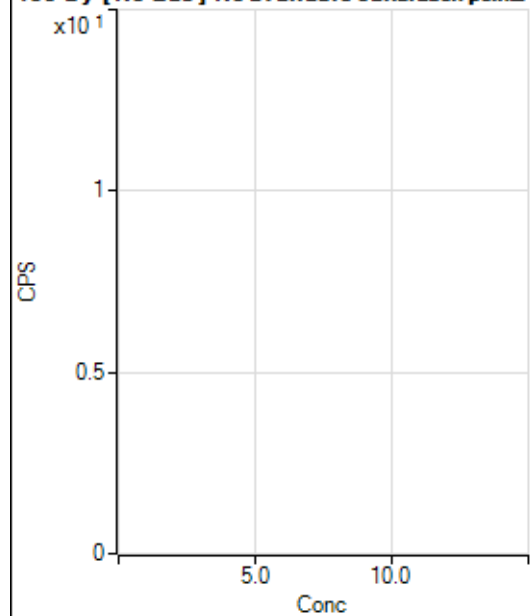
Min Conc: 0

150 Nd [No Gas] No available calibration points

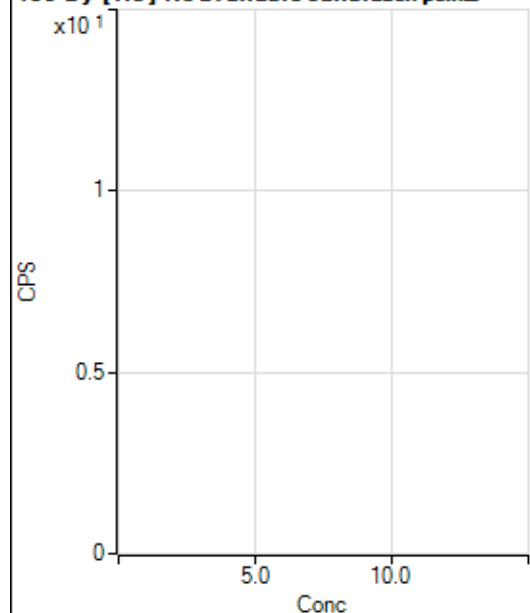
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			6.67		P	173.
2	☐			2.22		P	173.
3	☐			20.00		P	66.7
4	☐			22.22		P	45.8
5	☐			60.00		P	0.0
6	☐			106.67		P	28.6
7	☐			166.67		P	14.4
8	☐			22.22		P	34.7

150 Nd [He] No available calibration points

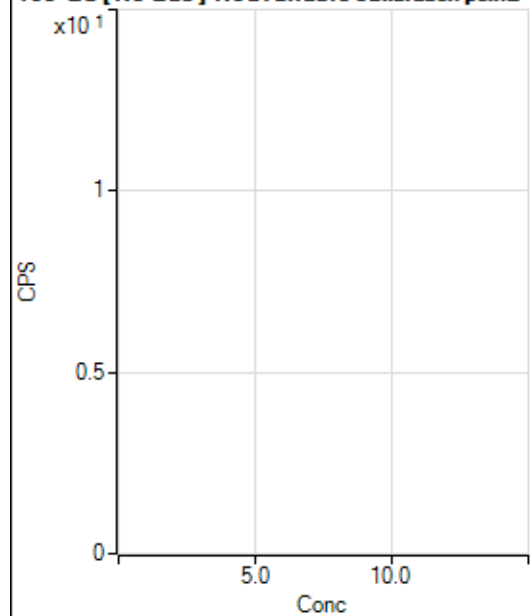
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			0.00		P	
2	☐			2.22		P	173.
3	☐			2.22		P	86.6
4	☐			0.00		P	
5	☐			8.89		P	43.3
6	☐			13.33		P	43.3
7	☐			16.67		P	40.0
8	☐			10.00		P	33.3

156 Dy [No Gas] No available calibration points

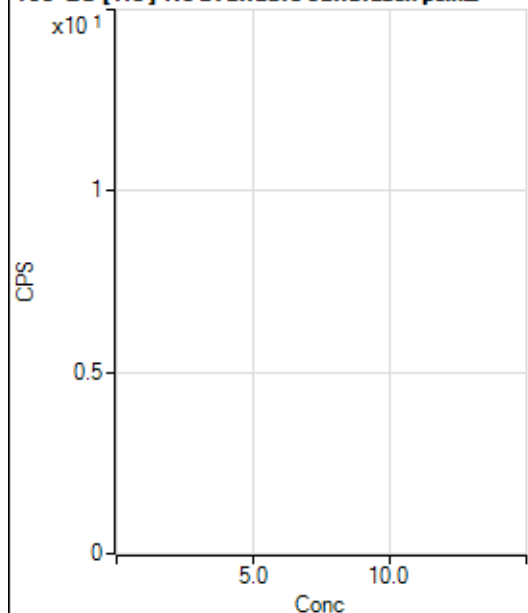
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			5.55		P	86.6
2	☐			11.11		P	86.6
3	☐			25.00		P	57.7
4	☐			19.44		P	49.5
5	☐			33.33		P	66.1
6	☐			52.78		P	45.6
7	☐			113.89		P	23.5
8	☐			608.37		P	3.6

156 Dy [He] No available calibration points

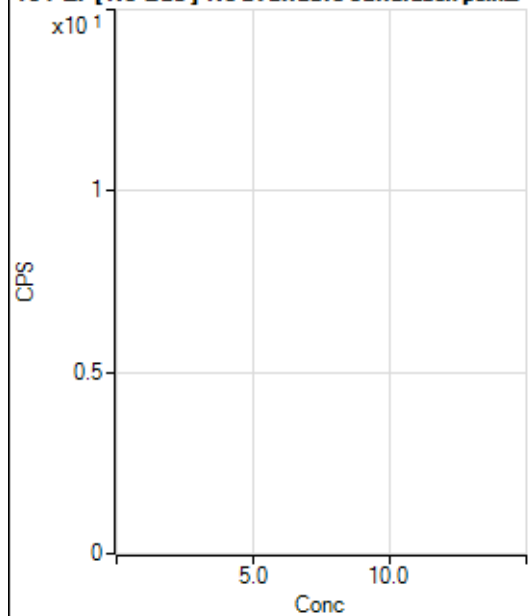
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1.11		P	173.
2	☐			1.11		P	173.
3	☐			3.33		P	100.
4	☐			6.67		P	86.6
5	☐			13.33		P	25.0
6	☐			24.44		P	20.8
7	☐			28.89		P	13.3
8	☐			341.12		P	9.1

160 Gd [No Gas] Noavailable calibration poin_

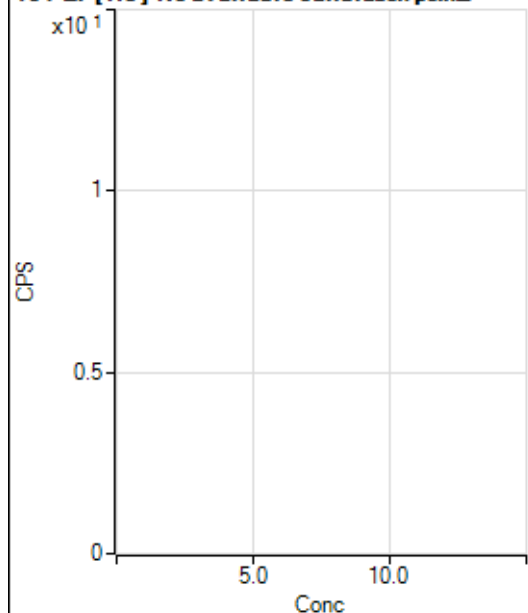
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			30.55		P	83.3
2	☐			30.56		P	31.5
3	☐			27.78		P	91.7
4	☐			41.67		P	52.9
5	☐			58.34		P	24.7
6	☐			88.89		P	21.6
7	☐			86.11		P	14.8
8	☐			808.38		P	13.2

160 Gd [He] No available calibration points

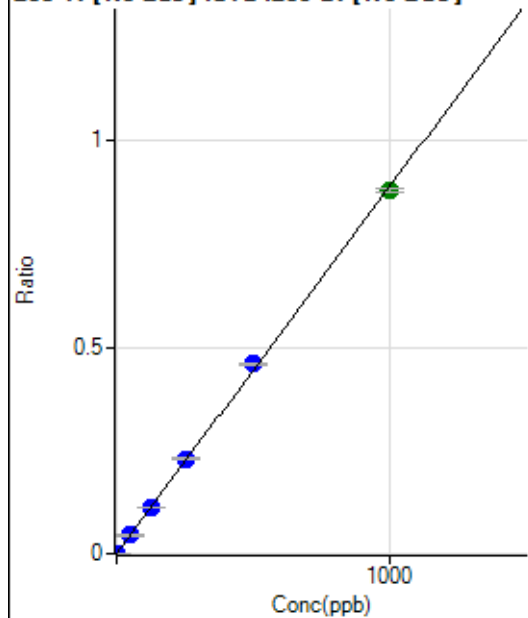
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			8.89		P	43.3
2	☐			8.89		P	21.6
3	☐			6.67		P	50.0
4	☐			14.44		P	13.4
5	☐			17.78		P	28.6
6	☐			36.67		P	9.1
7	☐			48.89		P	38.8
8	☐			414.46		P	7.8

164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			8.33		P	173.
2	☐			22.22		P	21.6
3	☐			30.56		P	31.5
4	☐			16.67		P	50.0
5	☐			19.44		P	65.5
6	☐			69.45		P	42.1
7	☐			38.89		P	75.3
8	☐			122.23		P	23.9

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			13.33		P	25.0
2	☐			6.67		P	0.0
3	☐			3.33		P	173.
4	☐			7.78		P	49.5
5	☐			10.00		P	0.0
6	☐			13.33		P	66.2
7	☐			18.89		P	53.9
8	☐			57.78		P	33.3

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	19.45	0.0000	P	23.8
2	☐	1.000	0.916	1580.70	0.0008	P	5.5
3	☐	50.000	49.925	90660.35	0.0443	P	0.7
4	☐	125.000	127.898	231114.37	0.1135	P	0.4
5	☐	250.000	258.419	481711.35	0.2294	P	3.0
6	☐	500.000	517.636	965486.65	0.4594	P	1.4
7	☐	1000.000	988.719	1898338.48	0.8775	A	1.0
8	☐			1083.41	0.0005	P	14.7

$$y = 8.8755E-004 * x + 9.3791E-006$$

$$R = 0.9997$$

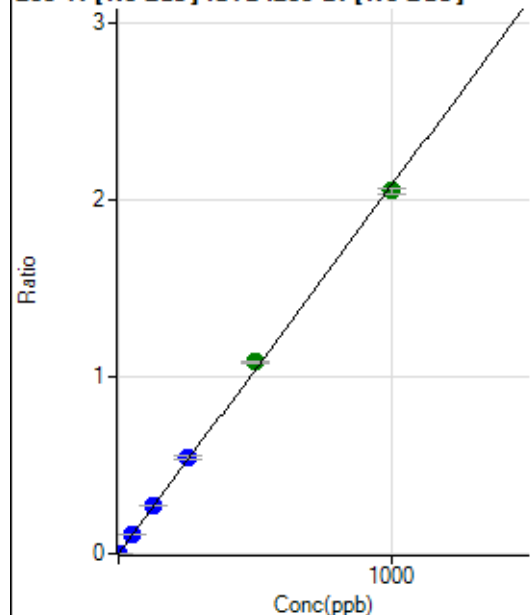
$$DL = 0.007558$$

$$BEC = 0.01057$$

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	50.00	0.0000	P	72.7
2	☐	1.000	1.002	4050.78	0.0021	P	9.0
3	☐	50.000	50.126	213486.64	0.1044	P	0.9
4	☐	125.000	130.054	551184.14	0.2707	P	0.3
5	☐	250.000	260.869	1140192.88	0.5430	P	4.2
6	☐	500.000	521.927	2283185.12	1.0865	A	1.1
7	☐	1000.000	985.681	4438354.05	2.0518	A	1.4
8	☐			2733.70	0.0013	P	10.2

$$y = 0.0021 * x + 2.4233E-005$$

$$R = 0.9996$$

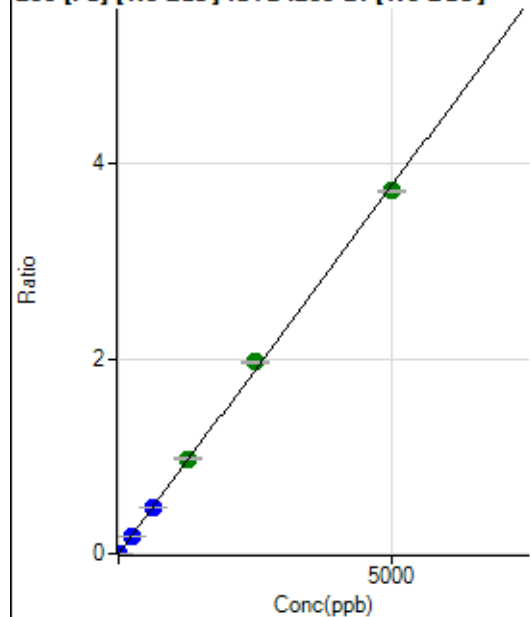
$$DL = 0.02541$$

$$BEC = 0.01164$$

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	64.82	0.0000	P	4.0
2	☐	1.000	0.966	1459.37	0.0008	P	11.5
3	☐	250.000	245.497	379008.90	0.1853	P	0.8
4	☐	625.000	630.892	969265.03	0.4761	P	0.3
5	☐	1250.000	1294.263	2050969.72	0.9767	A	3.9
6	☐	2500.000	2607.507	4135109.04	1.9677	A	1.0
7	☐	5000.000	4934.669	8055916.73	3.7237	A	0.3
8	☐			12502.54	0.0060	P	4.7

$$y = 7.5460E-004 * x + 3.1293E-005$$

$$R = 0.9996$$

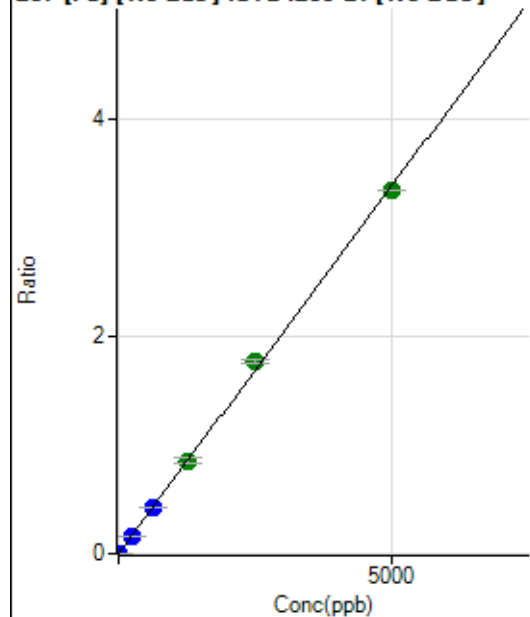
$$DL = 0.005038$$

$$BEC = 0.04147$$

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	77.78	0.0000	P	12.5
2	☐	1.000	0.924	1272.31	0.0007	P	15.1
3	☐	250.000	247.990	343802.93	0.1681	P	0.3
4	☐	625.000	625.217	862535.53	0.4237	P	0.4
5	☐	1250.000	1266.587	1801611.72	0.8583	A	5.1
6	☐	2500.000	2617.028	3726452.80	1.7733	A	1.7
7	☐	5000.000	4937.413	7237820.59	3.3456	A	0.1
8	☐			10908.50	0.0053	P	3.1

$$y = 6.7759E-004 * x + 3.7570E-005$$

$$R = 0.9996$$

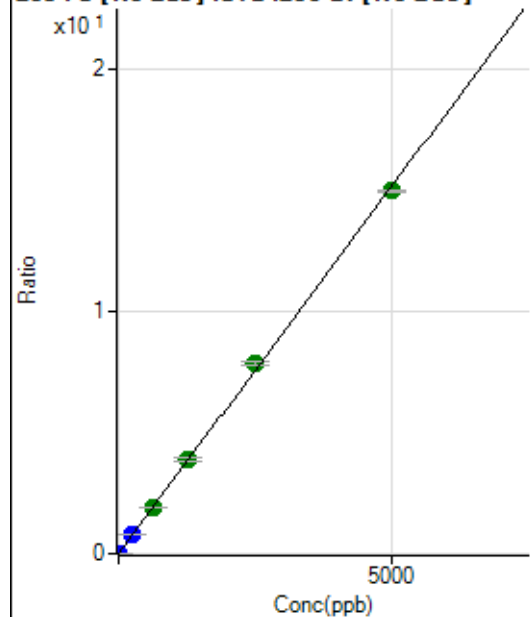
$$DL = 0.02087$$

$$BEC = 0.05545$$

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	298.16	0.0001	P	17.3
2	☐	1.000	0.923	5652.43	0.0029	P	7.1
3	☐	250.000	249.098	1545951.99	0.7558	P	0.1
4	☐	625.000	636.824	3932981.73	1.9319	A	0.7
5	☐	1250.000	1287.972	8202677.92	3.9071	A	4.5
6	☐	2500.000	2594.915	16541740.39	7.8716	A	1.4
7	☐	5000.000	4941.617	32429054.26	14.9901	A	0.4
8	☐			50348.56	0.0243	P	2.6

$$y = 0.0030 * x + 1.4393E-004$$

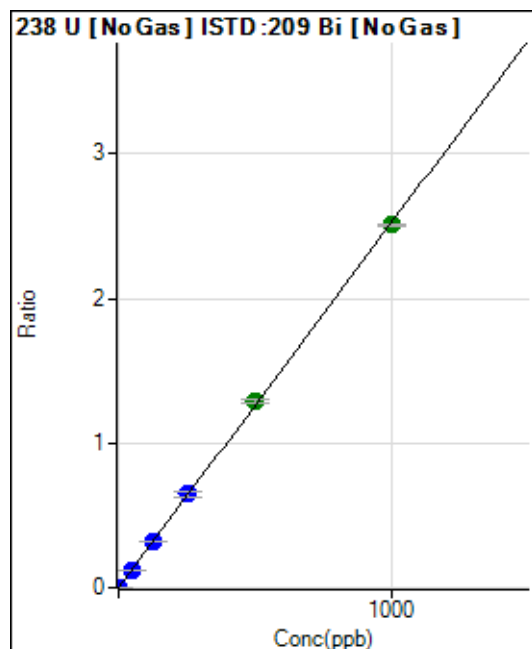
$$R = 0.9997$$

$$DL = 0.02462$$

$$BEC = 0.04745$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	11.11	0.0000	P	86.6
2	☐	1.000	0.988	4803.83	0.0025	P	7.5
3	☐	50.000	49.416	255264.47	0.1248	P	0.6
4	☐	125.000	126.575	650709.26	0.3196	P	0.6
5	☐	250.000	255.696	1355496.16	0.6457	P	4.6
6	☐	500.000	508.947	2700680.79	1.2852	A	1.9
7	☐	1000.000	993.935	5429908.63	2.5099	A	0.4
8	☐			919.51	0.0004	P	22.6

$$y = 0.0025 * x + 5.3715E-006$$

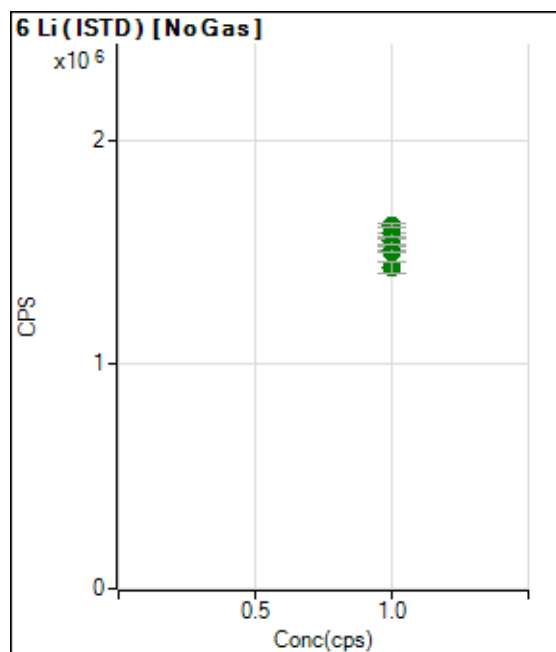
$$R = 0.9999$$

$$DL = 0.005527$$

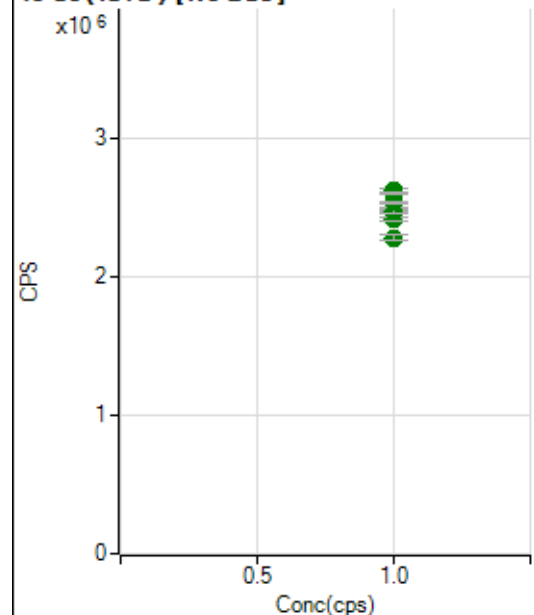
$$BEC = 0.002127$$

Weight: <None>

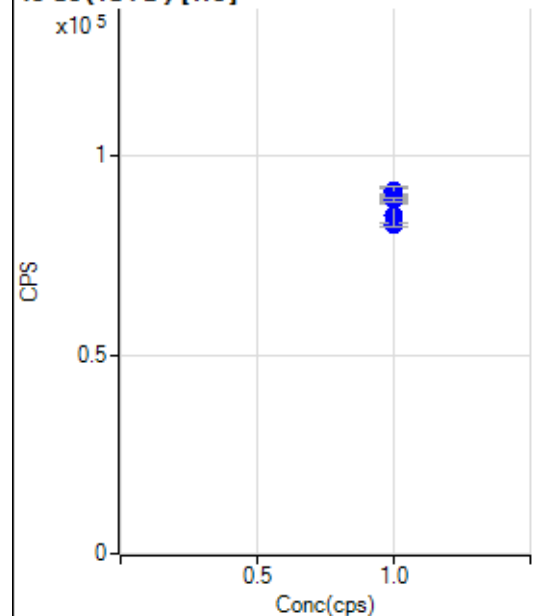
Min Conc: 0



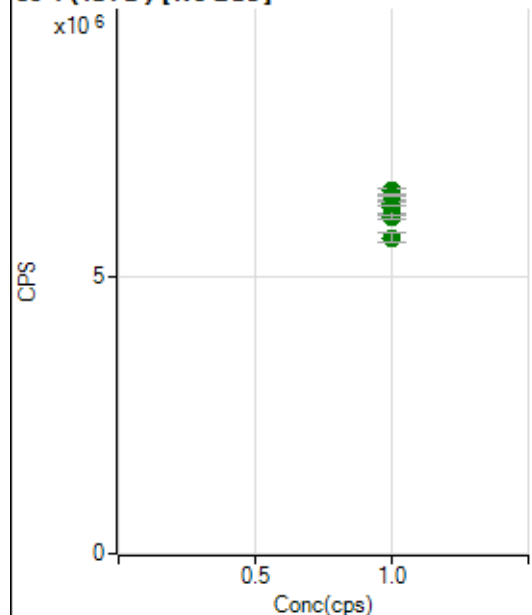
	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		1514292.44		A	1.8
2	☐	1.000		1435190.21		A	3.5
3	☐	1.000		1505830.12		A	0.3
4	☐	1.000		1513889.18		A	2.1
5	☐	1.000		1562243.58		A	3.5
6	☐	1.000		1550786.80		A	1.6
7	☐	1.000		1591023.62		A	2.3
8	☐	1.000		1618976.65		A	0.9

45 Sc (ISTD) [No Gas]

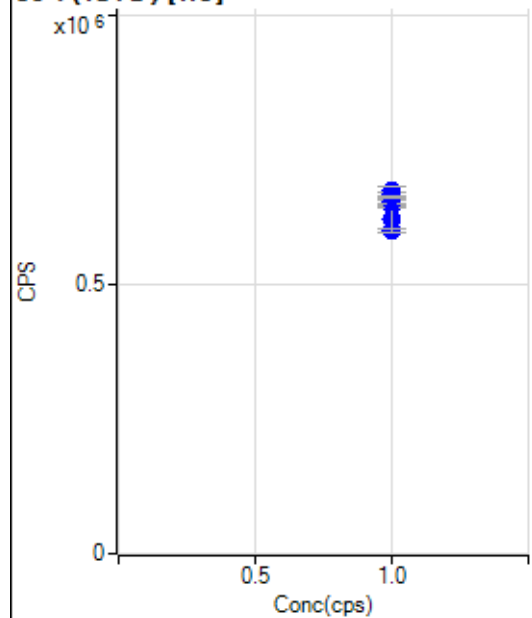
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2488076.16		A	1.2
2	☐	1.000		2283272.36		A	2.0
3	☐	1.000		2474650.90		A	0.7
4	☐	1.000		2419958.80		A	0.9
5	☐	1.000		2479401.21		A	1.6
6	☐	1.000		2542030.00		A	0.6
7	☐	1.000		2621785.17		A	1.9
8	☐	1.000		2606936.72		A	0.5

45 Sc (ISTD) [He]

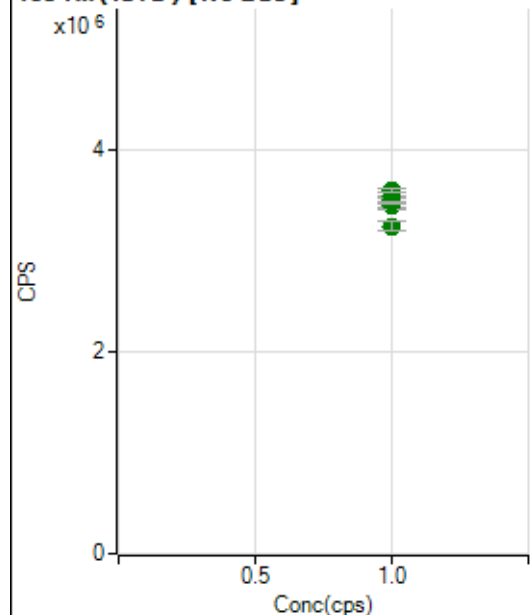
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		91040.48		P	1.7
2	☐	1.000		82632.75		P	1.1
3	☐	1.000		88831.20		P	1.3
4	☐	1.000		85083.31		P	6.6
5	☐	1.000		88938.44		P	0.3
6	☐	1.000		91319.94		P	1.3
7	☐	1.000		91089.98		P	3.0
8	☐	1.000		89190.13		P	0.9

89 Y (ISTD) [No Gas]

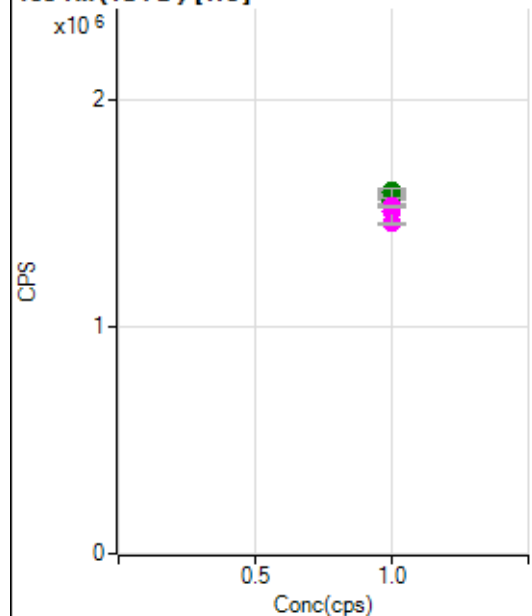
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6111957.48		A	0.2
2	☐	1.000		5696005.75		A	2.6
3	☐	1.000		6123568.59		A	0.5
4	☐	1.000		6068485.61		A	1.5
5	☐	1.000		6242661.78		A	4.0
6	☐	1.000		6303841.71		A	0.9
7	☐	1.000		6539073.10		A	1.9
8	☐	1.000		6457852.89		A	0.7

89 Y (ISTD) [He]

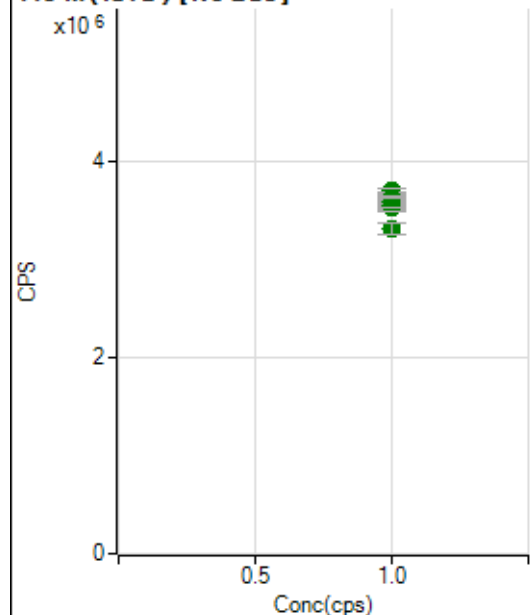
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		662234.27		P	0.7
2	☐	1.000		600489.29		P	0.8
3	☐	1.000		646667.66		P	0.7
4	☐	1.000		621455.25		P	8.1
5	☐	1.000		655094.80		P	1.1
6	☐	1.000		668635.56		P	1.2
7	☐	1.000		674357.88		P	2.7
8	☐	1.000		663675.84		P	0.4

103 Rh (ISTD) [No Gas]

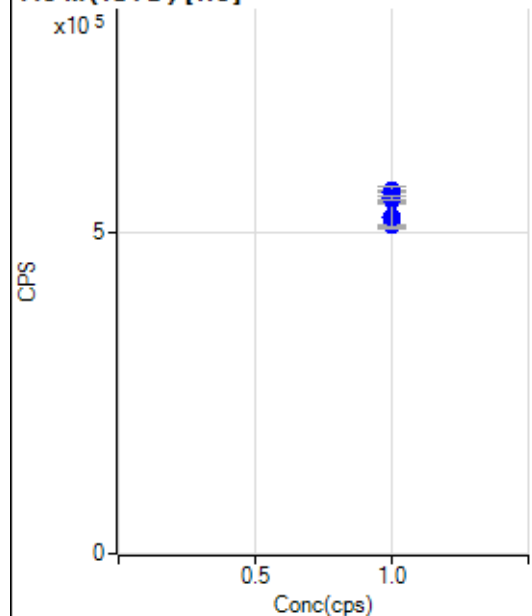
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3509513.40		A	1.0
2	☐	1.000		3243934.73		A	2.6
3	☐	1.000		3454752.81		A	2.1
4	☐	1.000		3445859.02		A	2.4
5	☐	1.000		3477240.66		A	4.0
6	☐	1.000		3534965.75		A	2.3
7	☐	1.000		3592585.97		A	1.0
8	☐	1.000		3476896.96		A	0.9

103 Rh (ISTD) [He]

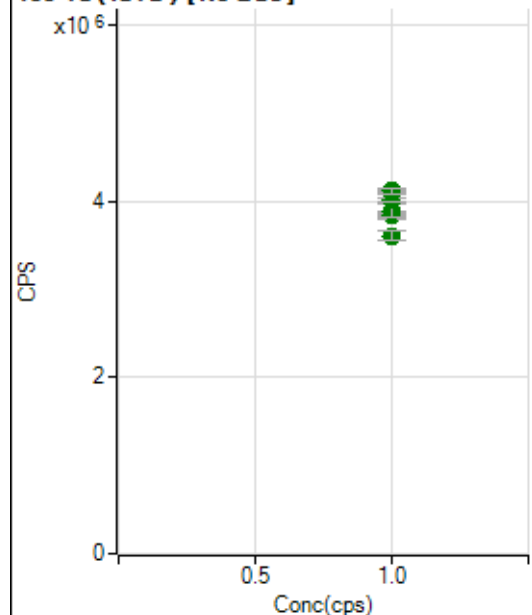
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1597301.44		A	1.3
2	☐	1.000		1452202.53		M	0.7
3	☐	1.000		1549998.36		A	2.0
4	☐	1.000		1502990.22		M	7.4
5	☐	1.000		1558998.09		A	1.8
6	☐	1.000		1595325.32		A	0.5
7	☐	1.000		1589260.41		A	2.9
8	☐	1.000		1530053.87		M	0.7

115 In (ISTD) [No Gas]

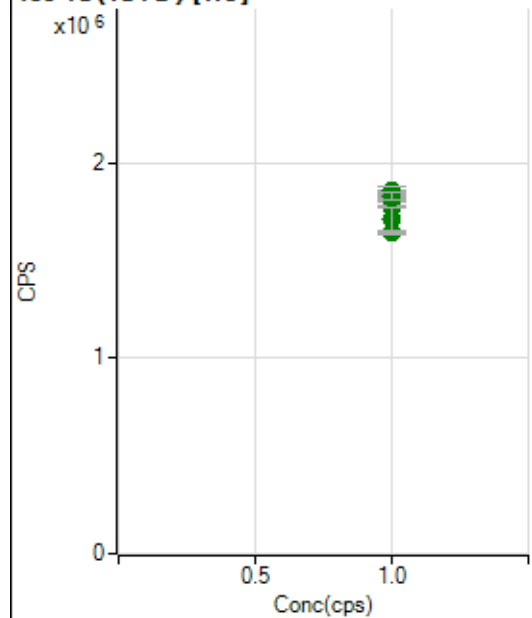
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3579962.77		A	1.5
2	☐	1.000		3305929.13		A	3.3
3	☐	1.000		3542938.55		A	2.0
4	☐	1.000		3523411.06		A	1.9
5	☐	1.000		3584667.71		A	3.1
6	☐	1.000		3662723.28		A	0.5
7	☐	1.000		3696508.52		A	0.9
8	☐	1.000		3632134.89		A	0.5

115 In (ISTD) [He]

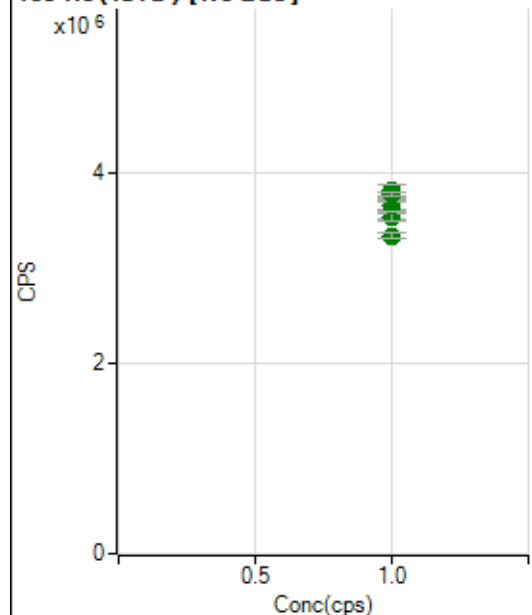
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		563423.12		P	0.8
2	☐	1.000		509300.41		P	0.7
3	☐	1.000		548840.26		P	0.7
4	☐	1.000		523717.05		P	7.4
5	☐	1.000		552602.50		P	1.3
6	☐	1.000		561107.74		P	1.7
7	☐	1.000		562041.83		P	2.7
8	☐	1.000		552310.76		P	0.8

159 Tb (ISTD) [No Gas]

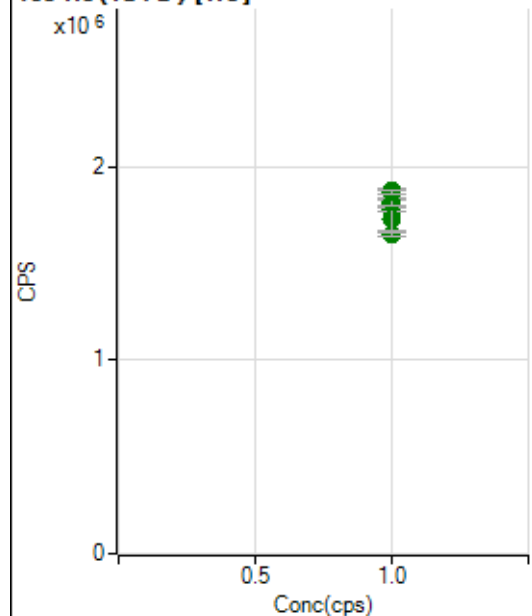
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3867529.95		A	0.9
2	☐	1.000		3610463.63		A	3.0
3	☐	1.000		3852697.96		A	1.1
4	☐	1.000		3843568.69		A	2.0
5	☐	1.000		3897138.17		A	4.1
6	☐	1.000		4018539.84		A	1.0
7	☐	1.000		4119555.36		A	0.7
8	☐	1.000		4123396.29		A	1.7

159 Tb (ISTD) [He]

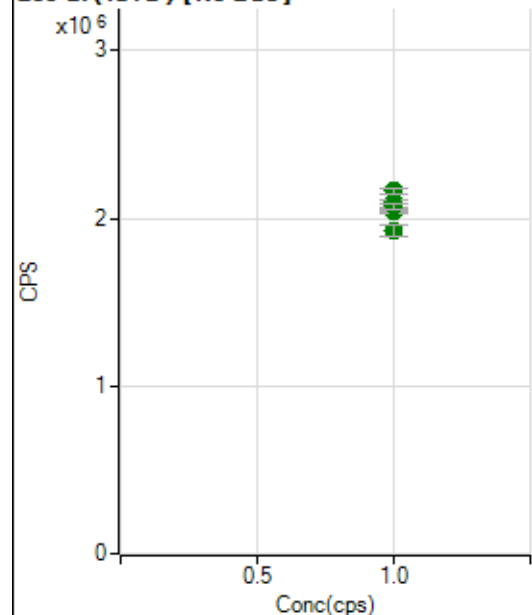
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1813055.86		A	1.9
2	☐	1.000		1641931.94		A	1.3
3	☐	1.000		1771958.74		A	0.8
4	☐	1.000		1713914.84		A	8.2
5	☐	1.000		1821587.26		A	0.5
6	☐	1.000		1838486.52		A	1.6
7	☐	1.000		1855002.85		A	2.0
8	☐	1.000		1827595.93		A	1.9

165 Ho (ISTD) [No Gas]

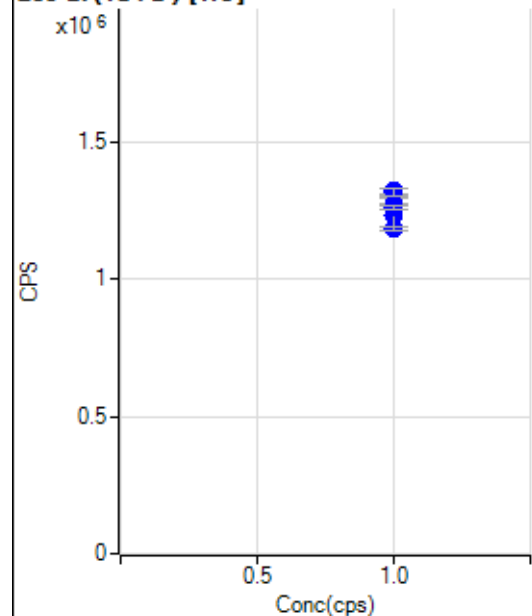
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3551990.57		A	1.7
2	☐	1.000		3348947.14		A	2.3
3	☐	1.000		3604766.23		A	0.7
4	☐	1.000		3549752.86		A	2.1
5	☐	1.000		3665945.48		A	3.9
6	☐	1.000		3713963.02		A	0.9
7	☐	1.000		3819963.11		A	3.3
8	☐	1.000		3791580.51		A	1.3

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1809721.21		A	1.5
2	☐	1.000		1652399.65		A	1.3
3	☐	1.000		1781032.70		A	1.3
4	☐	1.000		1723860.83		A	7.2
5	☐	1.000		1821210.65		A	2.2
6	☐	1.000		1863568.32		A	2.5
7	☐	1.000		1873196.24		A	1.7
8	☐	1.000		1868804.03		A	0.9

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2070764.00		A	1.0
2	☐	1.000		1923781.11		A	3.4
3	☐	1.000		2045554.81		A	0.1
4	☐	1.000		2035823.89		A	0.3
5	☐	1.000		2101765.56		A	3.8
6	☐	1.000		2101651.88		A	1.1
7	☐	1.000		2163396.08		A	1.2
8	☐	1.000		2070733.53		A	1.3

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1303568.00		P	0.9
2	☐	1.000		1185723.80		P	0.8
3	☐	1.000		1271855.59		P	0.9
4	☐	1.000		1231995.84		P	6.8
5	☐	1.000		1304121.07		P	1.2
6	☐	1.000		1322235.81		P	1.9
7	☐	1.000		1317319.21		P	1.8
8	☐	1.000		1259102.87		P	1.0

US EPA Tune Check Report

Operator Name Jaswal
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\P8011521MS.b
Acq. Date-Time 2021-01-15 11:22:10
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		3188	31881.28			1.564	5.000
24		38216	382161.14			1.132	5.000
25		5129	51291.85			0.825	5.000
26		5933	59333.50			0.538	5.000
59		5953	59526.17			1.200	5.000
113		2661	26613.69			1.197	5.000
115		9577	95772.38			2.685	5.000
206		2780	27795.26			1.500	5.000
207		2335	23346.04			1.133	5.000
208		5645	56447.75			1.312	5.000
220		1	10.40			15.355	

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

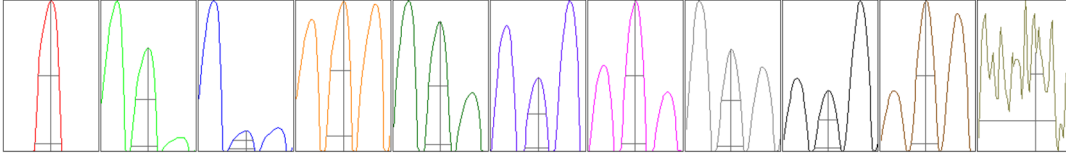
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	3152	3271	3192	3146	3179
24	37644	38675	38582	37941	38239
25	5103	5187	5146	5076	5133
26	5909	5974	5941	5894	5949
59	5854	6011	6027	5912	5958
113	2624	2710	2663	2645	2664
115	9737	9901	9608	9313	9326
206	2742	2834	2777	2737	2808
207	2303	2368	2341	2313	2349
208	5574	5752	5660	5575	5663

US EPA Tune Check Report

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

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	5224.79	9.00	8.90 - 9.10	
24	63910.57	24.00	23.90 - 24.10	
25	8503.30	25.05	24.90 - 25.10	
26	9709.61	26.05	25.90 - 26.10	
59	10489.18	59.00	58.90 - 59.10	
113	4893.24	113.05	112.90 - 113.10	
115	17470.39	115.00	114.90 - 115.10	
206	4955.25	205.95	205.90 - 206.10	
207	4116.03	206.95	206.90 - 207.10	
208	10200.78	207.95	207.90 - 208.10	
220	1.05	220.35	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.65	0.831	0.900	
24	0.64	0.830	0.900	
25	0.62	0.799	0.900	
26	0.64	0.807	0.900	
59	0.60	0.821	0.900	
113	0.57	0.744	0.900	
115	0.57	0.781	0.900	
206	0.59	0.830	0.900	
207	0.59	0.831	0.900	
208	0.58	0.852	0.900	
220	0.41	2.409		

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode HMI Nebulizer Gas 0.52 L/min Dilution Gas 0.47 L/min

US EPA Tune Check Report

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

Lens Parameters

Extract 1	-6.0 V	Omega Lens	10.0 V	Deflect	14.2 V
Extract 2	-225.0 V	Cell Entrance	-30 V	Plate Bias	-50 V
Omega Bias	-115 V	Cell Exit	-50 V		

Cell Parameters

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

QP Parameters

Mass Gain	122	Axis Gain	0.9990	QP Bias	-4.0 V
Mass Offset	123	Axis Offset	0.00		

Hardware Settings

Torch

Torch H	0.6 mm	Torch V	-0.3 mm
---------	--------	---------	---------

EM

Discriminator	3.9 mV	Analog HV	2183 V	Pulse HV	1350 V
---------------	--------	-----------	--------	----------	--------

[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		1325	13254.60			0.649	
89		43576	435762.72			0.544	
205		2631	26310.49			0.636	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	1319	1314	1333	1330	1332
89	43285	43716	43755	43352	43772
205	2613	2652	2615	2633	2642

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	HMI	Nebulizer Gas	0.52 L/min	Dilution Gas	0.47 L/min
RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.40 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	10.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	-6.0 V	Omega Lens	10.0 V	Deflect	5.0 V
-----------	--------	------------	--------	---------	-------

US EPA Tune Check Report

Extract 2	-225.0 V	Cell Entrance	-50 V	Plate Bias	-60 V
Omega Bias	-115 V	Cell Exit	-70 V		
Cell Parameters					
Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	4.5 mL/min	OctP Bias	-18.0 V		
H2 Flow	---	OctP RF	200 V		
QP Parameters					
Mass Gain	122	Axis Gain	0.9990	QP Bias	-13.0 V
Mass Offset	123	Axis Offset	0.00		
Hardware Settings					
Torch					
Torch H	0.6 mm	Torch V	-0.3 mm		
EM					
Discriminator	3.9 mV	Analog HV	2183 V	Pulse HV	1350 V