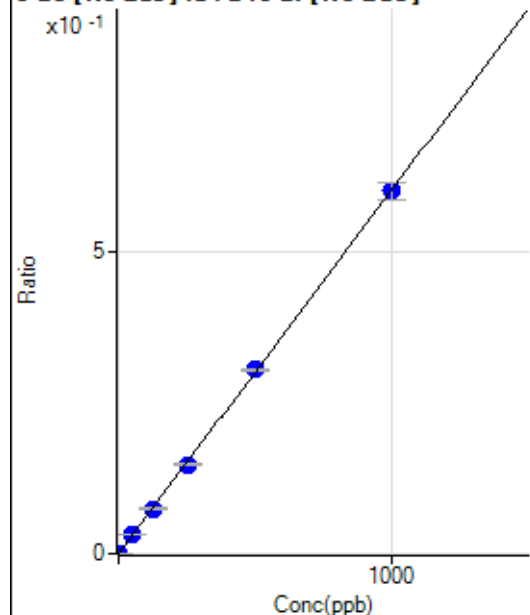


Calibration for 005CALS.d

Batch Folder: D:\Agilent\ICPMH\1\DATA\P8073020-MS1.b\
 Analysis File: P8073020-MS1.batch.bin
 DA Date-Time: 2020-07-30 17:29:11
 Calibration Title:
 Calibration Method: External Calibration
 VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	003CALB.d	S00	2020-07-30 13:37:56
2	004CALS.d	S02	2020-07-30 13:41:02
3	005CALS.d	S03	2020-07-30 13:44:05
4	006CALS.d	S04	2020-07-30 13:47:11
5	007CALS.d	S05	2020-07-30 13:50:11
6	008CALS.d	S06	2020-07-30 13:53:11
7	009CALS.d	S07	2020-07-30 13:56:10
8	010CALS.d	S08	2020-07-30 13:59:11

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	86.65	0.0001	P	14.8
2	☐	1.000	0.889	905.85	0.0006	P	2.7
3	☐	50.000	51.177	45498.66	0.0309	P	1.7
4	☐	125.000	123.975	112117.89	0.0747	P	1.0
5	☐	250.000	244.146	223030.68	0.1471	P	2.3
6	☐	500.000	506.128	452841.75	0.3049	P	0.7
7	☐	1000.000	998.469	882787.86	0.6014	P	4.5
8	☐			1101.16	0.0008	P	6.6

$$y = 6.0228\text{E-}004 * x + 5.9729\text{E-}005$$

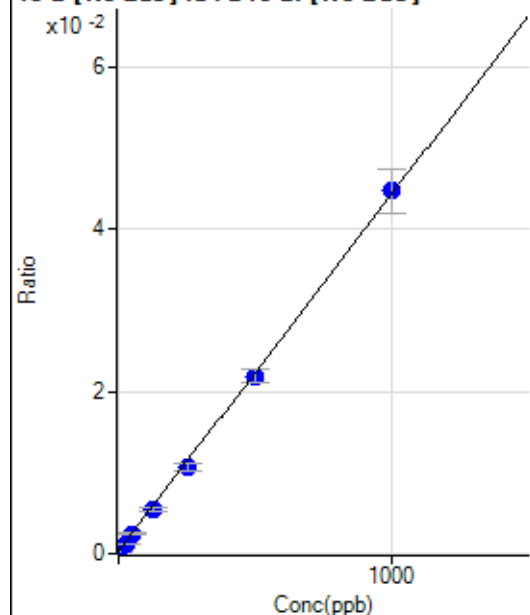
$$R = 1.0000$$

$$DL = 0.04416$$

$$BEC = 0.09917$$

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	513.91	0.0004	P	14.0
2	☐	25.000	17.529	1711.77	0.0011	P	8.6
3	☐	50.000	47.340	3578.40	0.0024	P	8.7
4	☐	125.000	116.613	8204.68	0.0055	P	9.5
5	☐	250.000	235.544	16208.40	0.0107	P	8.2
6	☐	500.000	490.229	32460.59	0.0219	P	8.3
7	☐	1000.000	1009.868	65463.30	0.0447	P	12.2
8	☐			11458.87	0.0079	P	9.3

$$y = 4.3873\text{E-}005 * x + 3.5462\text{E-}004$$

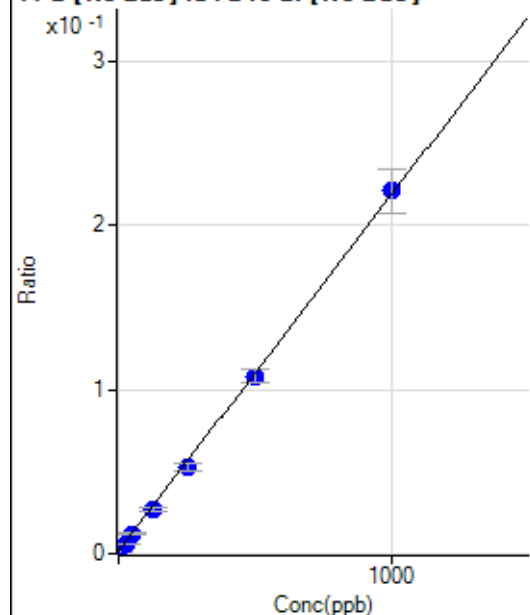
$$R = 0.9998$$

$$DL = 3.383$$

$$BEC = 8.083$$

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	2401.06	0.0017	P	3.5
2	☐	25.000	17.996	8473.46	0.0056	P	5.9
3	☐	50.000	47.404	17587.06	0.0120	P	11.0
4	☐	125.000	115.543	40128.66	0.0268	P	9.1
5	☐	250.000	233.114	79301.57	0.0523	P	9.1
6	☐	500.000	490.438	160652.14	0.1082	P	8.0
7	☐	1000.000	1010.489	324190.47	0.2212	P	12.1
8	☐			55669.00	0.0384	P	8.7

$$y = 2.1724\text{E-}004 * x + 0.0017$$

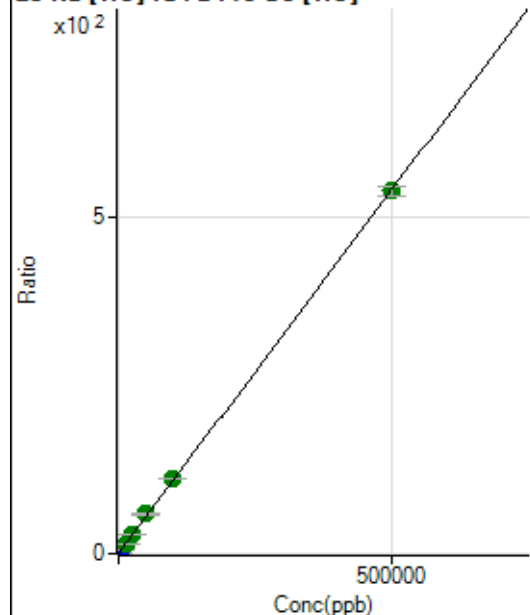
R = 0.9998

DL = 0.7983

BEC = 7.628

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	40537.43	0.3698	P	0.7
2	☐	500.000	485.759	99533.03	0.8938	P	0.8
3	☐	5000.000	5421.127	702402.71	6.2177	P	2.0
4	☐	12500.000	13481.866	1648083.23	14.9129	A	1.1
5	☐	25000.000	26143.814	3217763.48	28.5716	A	2.0
6	☐	50000.000	54173.157	6576261.65	58.8073	A	1.3
7	☐	100000.00	102773.69	12754140.30	111.2334	A	1.7
8	☐	500000.00	498942.01	59396859.66	538.5862	A	2.4

$$y = 0.0011 * x + 0.3698$$

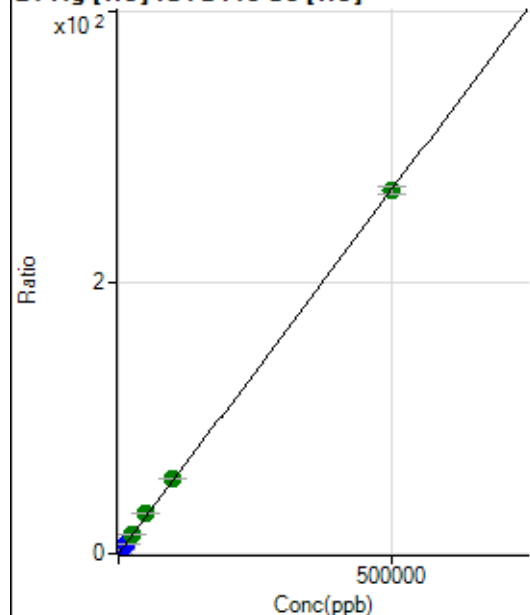
R = 1.0000

DL = 7.399

BEC = 342.9

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	1772.38	0.0162	P	5.9
2	☐	500.000	492.494	31250.91	0.2806	P	3.0
3	☐	5000.000	5407.387	329816.00	2.9193	P	1.4
4	☐	12500.000	13774.957	819156.34	7.4118	P	0.9
5	☐	25000.000	26363.141	1595848.94	14.1703	A	1.7
6	☐	50000.000	55317.529	3322812.66	29.7156	A	1.9
7	☐	100000.00	102776.36	6328925.79	55.1957	A	1.4
8	☐	500000.00	498808.87	29537260.04	267.8214	A	2.2

$$y = 5.3689\text{E-}004 * x + 0.0162$$

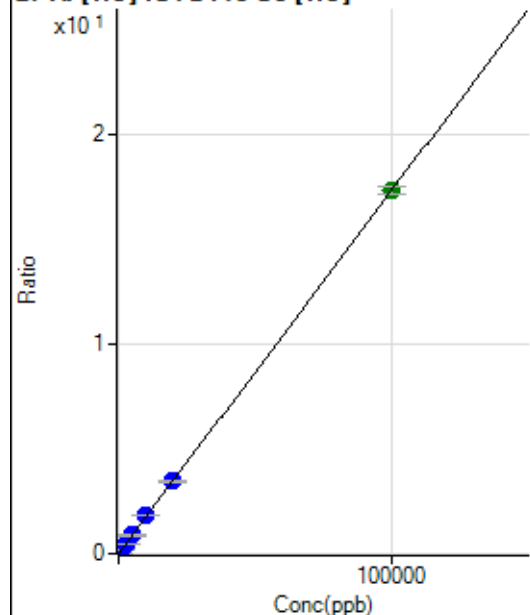
$$R = 0.9999$$

$$DL = 5.312$$

$$BEC = 30.13$$

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	853.86	0.0078	P	4.0
2	☐	20.000	20.917	1271.14	0.0114	P	2.6
3	☐	1000.000	1039.850	21240.57	0.1880	P	1.2
4	☐	2500.000	2583.867	50351.03	0.4556	P	1.6
5	☐	5000.000	5021.021	98877.91	0.8780	P	1.6
6	☐	10000.000	10537.666	205090.22	1.8341	P	1.7
7	☐	20000.000	19917.162	396679.07	3.4596	P	2.0
8	☐	100000.00	99959.255	1911468.44	17.3317	A	2.3

$$y = 1.7331\text{E-}004 * x + 0.0078$$

$$R = 1.0000$$

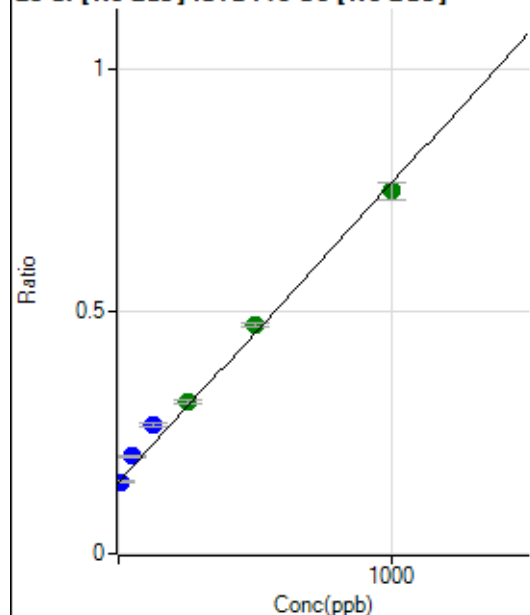
$$DL = 5.44$$

$$BEC = 44.94$$

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	493599.94	0.1473	P	0.8
2	☐	10.000	1.537	518589.85	0.1482	P	2.1
3	☐	50.000	86.168	679817.98	0.2004	P	2.9
4	☐	125.000	191.209	923656.60	0.2652	P	2.2
5	☐	250.000	269.533	1097885.92	0.3135	A	2.2
6	☐	500.000	523.452	1604268.07	0.4700	A	1.5
7	☐	1000.000	973.391	2570069.24	0.7475	A	4.9
8	☐			694730.79	0.1980	P	2.6

$$y = 6.1661\text{E-}004 * x + 0.1473$$

$$R = 0.9970$$

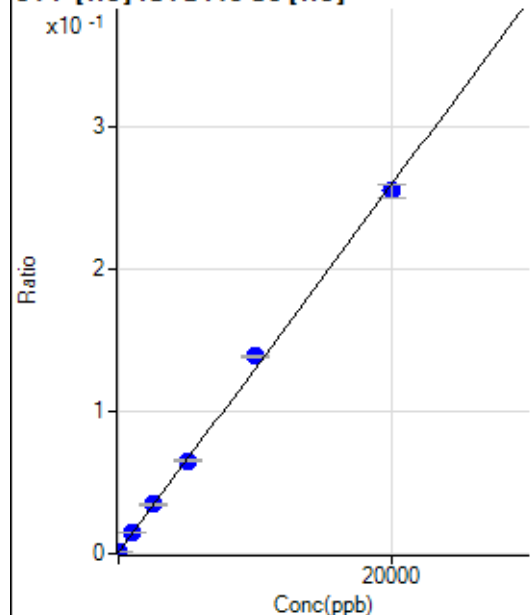
$$DL = 5.546$$

$$BEC = 238.8$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	-16.876	91.67	0.0008	P	26.6
2	☐	0.000	16.876	141.67	0.0013	P	9.3
3	☐	1000.000	1056.556	1664.03	0.0147	P	6.0
4	☐	2500.000	2616.510	3856.17	0.0349	P	4.3
5	☐	5000.000	4974.447	7363.17	0.0654	P	2.2
6	☐	10000.000	10655.968	15528.09	0.1389	P	1.2
7	☐	20000.000	19661.013	29271.98	0.2553	P	3.4
8	☐			166.67	0.0015	P	6.6

$$y = 1.2932\text{E-}005 * x + 0.0011$$

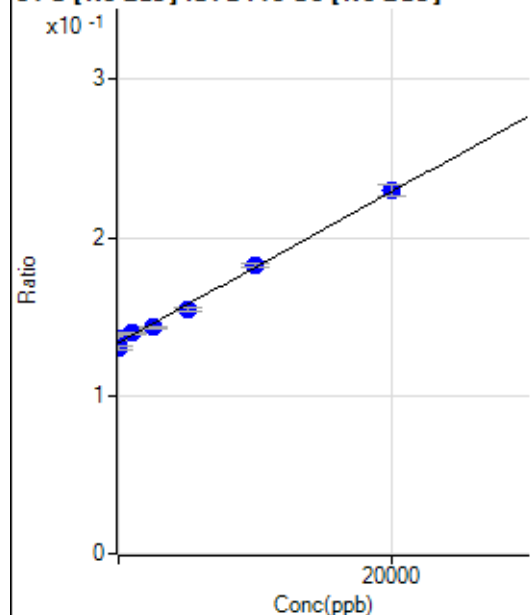
$$R = 0.9992$$

$$DL = 39.45$$

$$BEC = 81.45$$

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	598.999	456908.48	0.1363	P	1.3
2	☐	0.000	-598.999	456984.83	0.1306	P	2.0
3	☐	1000.000	1288.075	473699.76	0.1396	P	1.0
4	☐	2500.000	1996.716	498096.44	0.1430	P	0.4
5	☐	5000.000	4372.607	540474.71	0.1544	P	1.3
6	☐	10000.000	10228.907	622274.24	0.1823	P	1.0
7	☐	20000.000	20090.901	789036.19	0.2294	P	3.3
8	☐			442992.14	0.1263	P	2.7

$$y = 4.7755\text{E-}006 * x + 0.1335$$

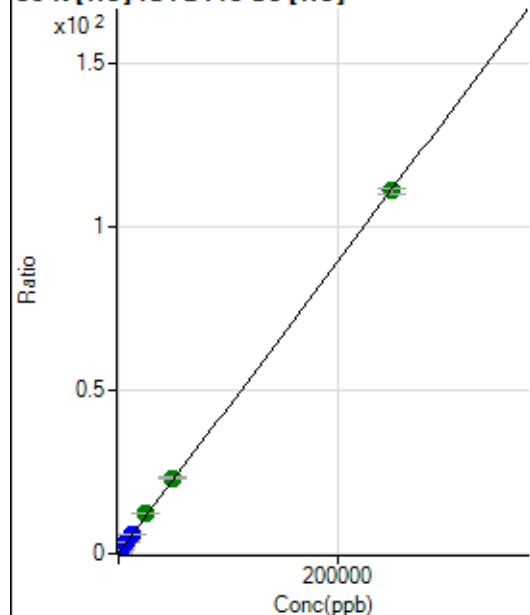
$$R = 0.9978$$

$$DL = 1382$$

$$BEC = 2.795\text{E}+04$$

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	24866.36	0.2268	P	2.3
2	☐	500.000	460.515	47988.72	0.4310	P	2.7
3	☐	2500.000	2736.855	162715.36	1.4403	P	1.5
4	☐	6250.000	6852.549	360855.68	3.2651	P	0.3
5	☐	12500.000	13170.875	683235.54	6.0665	P	0.3
6	☐	25000.000	27568.382	1392150.19	12.4500	A	2.0
7	☐	50000.000	51596.525	2649047.48	23.1035	A	1.8
8	☐	250000.00	249372.96	12220913.38	110.7927	A	1.2

$$y = 4.4338\text{E-}004 * x + 0.2268$$

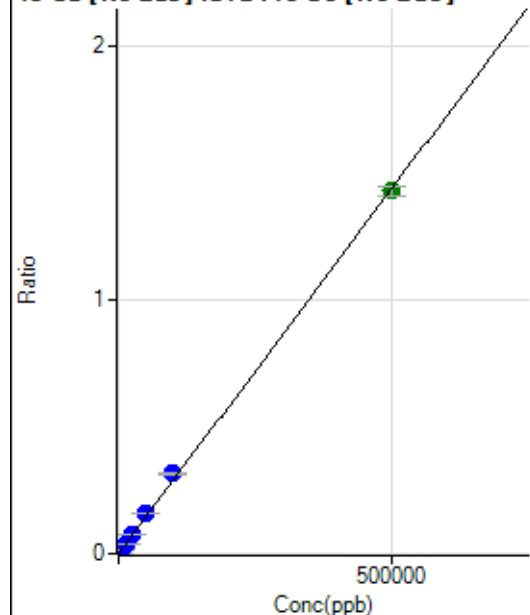
$$R = 0.9999$$

$$DL = 35.41$$

$$BEC = 511.6$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	419.46	0.0001	P	9.0
2	☐	500.000	491.037	5378.91	0.0015	P	5.4
3	☐	5000.000	5559.272	54682.38	0.0161	P	1.6
4	☐	12500.000	13448.861	135195.95	0.0388	P	0.6
5	☐	25000.000	26366.336	266027.63	0.0760	P	2.4
6	☐	50000.000	55731.060	547654.71	0.1605	P	1.7
7	☐	100000.00	109672.26	1085635.55	0.3156	P	3.1
8	☐	500000.00	497394.82	5020117.26	1.4310	A	2.6

$$y = 2.8768E-006 * x + 1.2523E-004$$

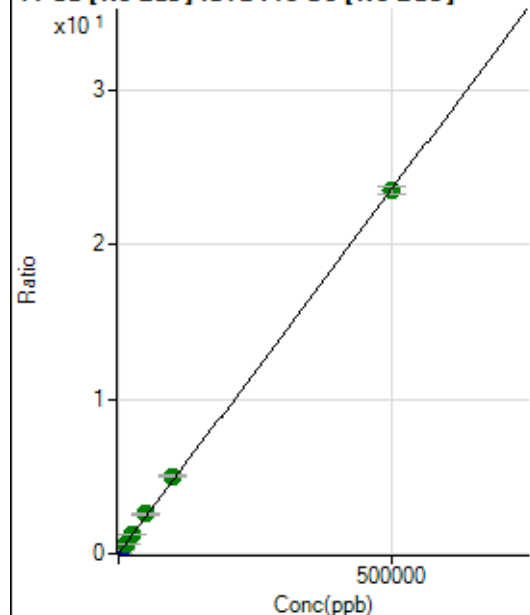
R = 0.9998

DL = 11.81

BEC = 43.53

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	43842.59	0.0131	P	2.0
2	☐	500.000	483.342	125510.17	0.0359	P	2.8
3	☐	5000.000	5595.636	939560.56	0.2770	P	2.3
4	☐	12500.000	13135.116	2203043.84	0.6325	A	2.1
5	☐	25000.000	25753.520	4298450.01	1.2276	A	1.7
6	☐	50000.000	54090.297	8750362.69	2.5639	A	2.7
7	☐	100000.00	106529.81	17319941.01	5.0369	A	4.5
8	☐	500000.00	498225.51	82475321.98	23.5089	A	2.2

$$y = 4.7159E-005 * x + 0.0131$$

R = 0.9999

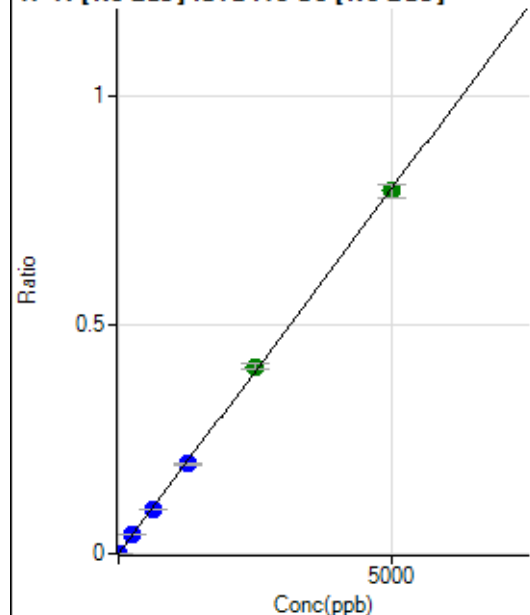
DL = 17.02

BEC = 277.4

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	330.57	0.0001	P	2.4
2	☐	5.000	4.698	2961.50	0.0008	P	2.8
3	☐	250.000	257.774	139458.24	0.0411	P	1.5
4	☐	625.000	612.469	339714.25	0.0975	P	1.4
5	☐	1250.000	1232.624	686943.78	0.1962	P	2.2
6	☐	2500.000	2564.243	1392466.80	0.4080	A	3.1
7	☐	5000.000	4973.400	2721185.02	0.7913	A	3.9
8	☐			2994.85	0.0009	P	5.3

$$y = 1.5909\text{E-}004 * x + 9.8641\text{E-}005$$

$$R = 0.9999$$

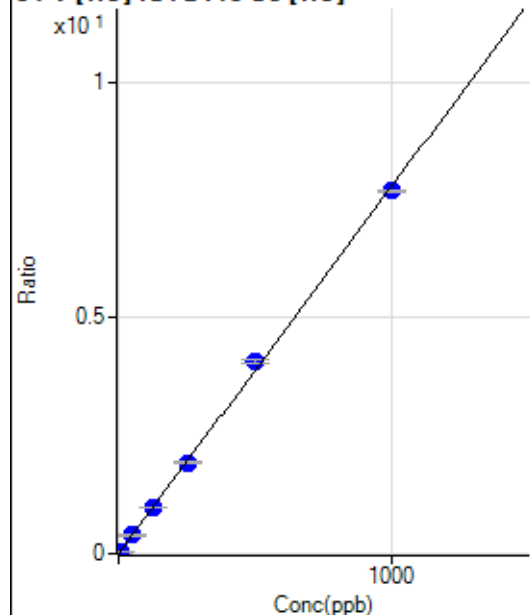
$$DL = 0.04423$$

$$BEC = 0.62$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	8.89	0.0001	P	22.5
2	☐	5.000	4.759	4130.63	0.0371	P	3.1
3	☐	50.000	50.349	44239.28	0.3916	P	2.5
4	☐	125.000	126.756	108948.58	0.9858	P	0.9
5	☐	250.000	248.233	217417.75	1.9305	P	1.3
6	☐	500.000	523.496	455254.49	4.0712	P	1.3
7	☐	1000.000	988.458	881456.15	7.6870	P	0.2
8	☐			932.26	0.0085	P	2.1

$$y = 0.0078 * x + 8.1237\text{E-}005$$

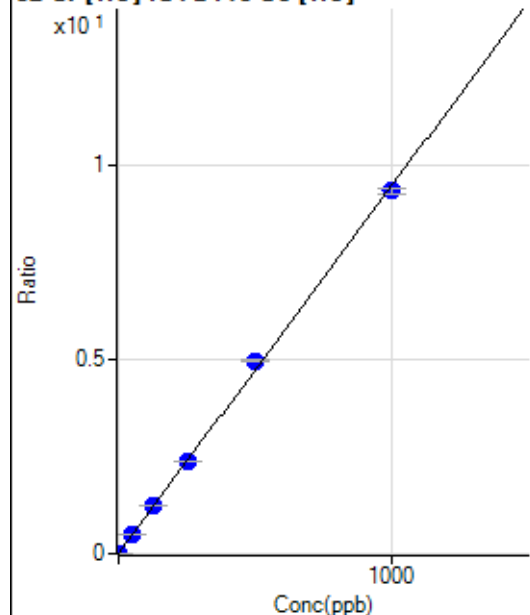
$$R = 0.9996$$

$$DL = 0.007059$$

$$BEC = 0.01045$$

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	670.02	0.0061	P	6.3
2	☐	2.000	1.783	2555.81	0.0230	P	0.5
3	☐	50.000	51.031	55139.12	0.4881	P	1.8
4	☐	125.000	128.834	135147.93	1.2229	P	1.1
5	☐	250.000	250.451	267083.52	2.3715	P	1.1
6	☐	500.000	524.620	554753.22	4.9610	P	1.4
7	☐	1000.000	987.047	1069621.38	9.3284	P	1.3
8	☐			5678.96	0.0515	P	1.8

$$y = 0.0094 * x + 0.0061$$

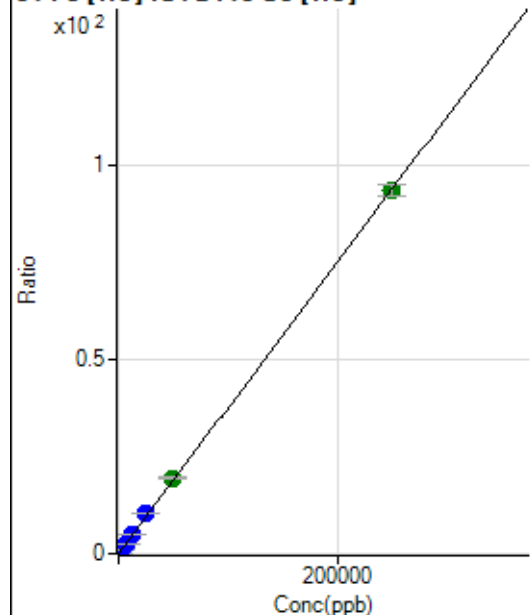
$$R = 0.9995$$

$$DL = 0.1222$$

$$BEC = 0.6476$$

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	427.79	0.0039	P	19.2
2	☐	50.000	50.188	2526.20	0.0227	P	3.3
3	☐	2500.000	2647.796	112445.92	0.9954	P	2.1
4	☐	6250.000	6741.545	279415.74	2.5283	P	0.9
5	☐	12500.000	12974.873	547616.17	4.8624	P	0.5
6	☐	25000.000	27285.755	1142987.11	10.2212	P	1.2
7	☐	50000.000	51884.903	2228135.03	19.4325	A	1.8
8	☐	250000.00	249356.93	10296517.24	93.3768	A	3.2

$$y = 3.7445E-004 * x + 0.0039$$

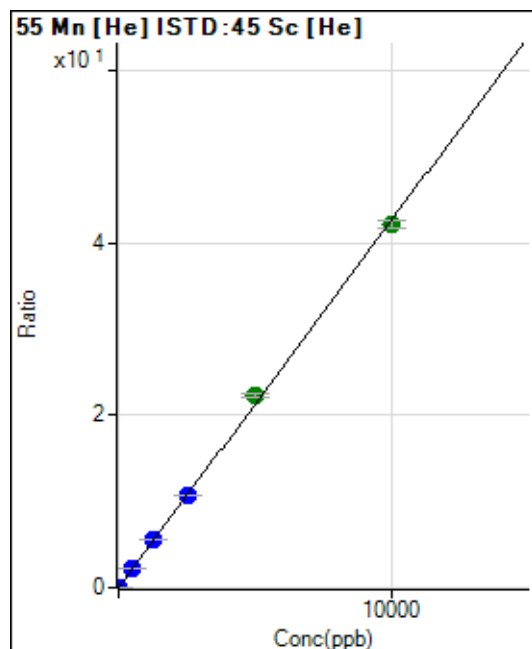
$$R = 0.9999$$

$$DL = 6.006$$

$$BEC = 10.4$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	92.22	0.0008	P	13.3
2	☐	1.000	0.931	535.57	0.0048	P	7.7
3	☐	500.000	508.690	245320.18	2.1717	P	2.4
4	☐	1250.000	1295.230	610966.05	5.5282	P	0.5
5	☐	2500.000	2512.714	1207752.02	10.7238	P	0.7
6	☐	5000.000	5230.185	2496007.29	22.3205	A	1.2
7	☐	10000.000	9875.641	4832278.16	42.1449	A	2.2
8	☐			7416.44	0.0672	P	1.5

$$y = 0.0043 * x + 8.4041E-004$$

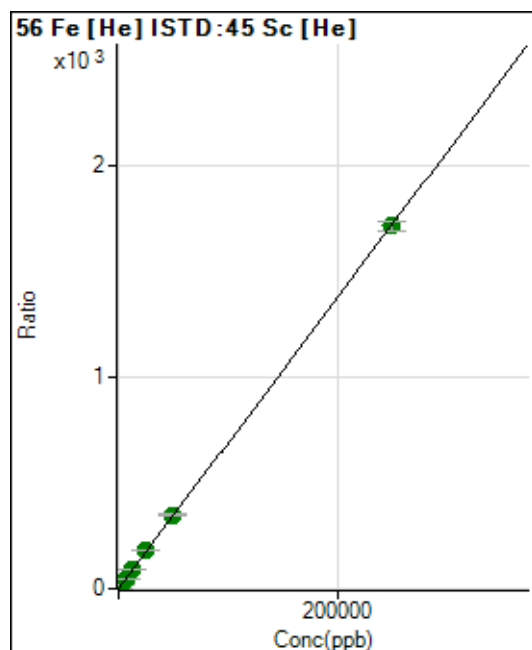
$$R = 0.9996$$

$$DL = 0.0787$$

$$BEC = 0.1969$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	3517.17	0.0321	P	3.9
2	☐	50.000	47.743	40028.54	0.3595	P	1.3
3	☐	2500.000	2654.393	2059944.19	18.2341	A	1.9
4	☐	6250.000	6643.746	5038142.24	45.5903	A	1.8
5	☐	12500.000	12783.034	9876060.17	87.6892	A	0.6
6	☐	25000.000	26601.121	20402155.09	182.4440	A	1.2
7	☐	50000.000	50649.713	39827596.73	347.3525	A	1.8
8	☐	250000.00	249684.40	188813926.4	1,712.193	A	2.8

$$y = 0.0069 * x + 0.0321$$

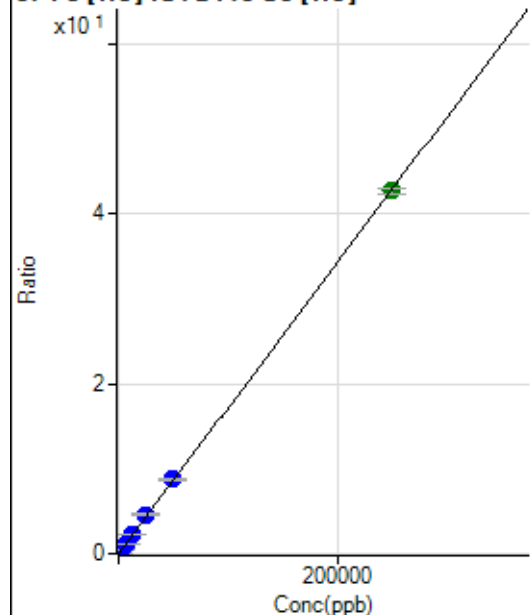
$$R = 1.0000$$

$$DL = 0.5493$$

$$BEC = 4.68$$

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	144.45	0.0013	P	16.7
2	☐	50.000	46.289	1027.83	0.0092	P	5.6
3	☐	2500.000	2622.460	50796.06	0.4496	P	1.7
4	☐	6250.000	6670.500	126167.60	1.1416	P	1.0
5	☐	12500.000	12867.636	247884.29	2.2010	P	0.8
6	☐	25000.000	27053.172	517327.61	4.6260	P	0.5
7	☐	50000.000	51062.389	1001029.36	8.7303	P	1.6
8	☐	250000.00	249552.08	4705729.74	42.6618	A	1.3

$$y = 1.7095E-004 * x + 0.0013$$

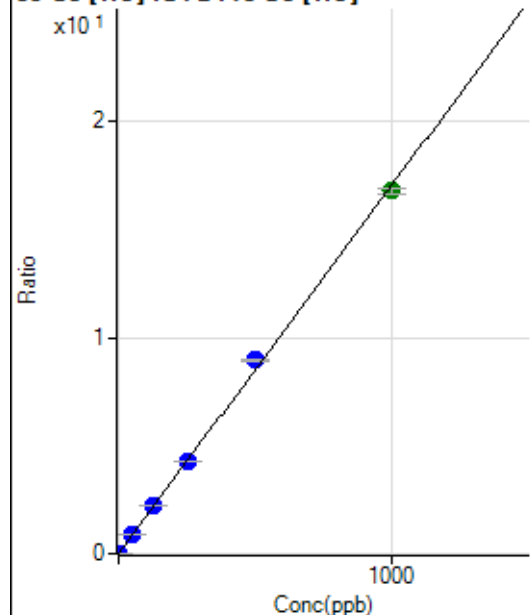
$$R = 1.0000$$

$$DL = 3.877$$

$$BEC = 7.72$$

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	74.44	0.0007	P	20.1
2	☐	1.000	0.917	1815.69	0.0163	P	6.3
3	☐	50.000	50.506	97279.54	0.8611	P	1.7
4	☐	125.000	129.088	243117.15	2.1998	P	0.5
5	☐	250.000	251.328	482271.73	4.2823	P	1.1
6	☐	500.000	526.446	1003007.30	8.9691	P	0.6
7	☐	1000.000	985.909	1925883.72	16.7964	A	1.9
8	☐			4764.18	0.0432	P	1.8

$$y = 0.0170 * x + 6.8040E-004$$

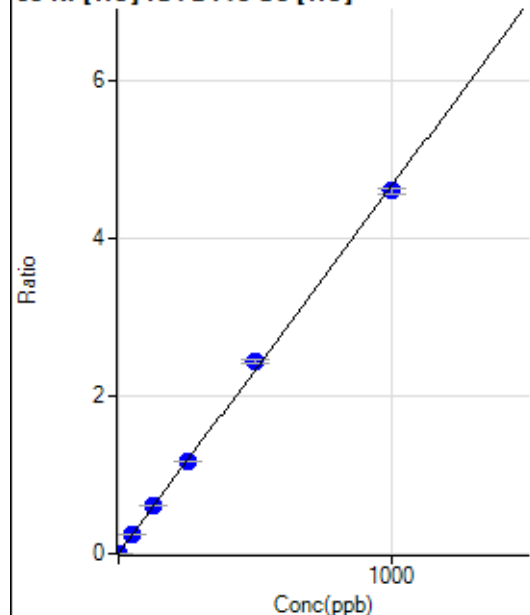
$$R = 0.9995$$

$$DL = 0.02405$$

$$BEC = 0.03994$$

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	321.12	0.0029	P	3.6
2	☐	1.000	0.991	840.03	0.0075	P	3.4
3	☐	50.000	51.678	27501.12	0.2435	P	3.6
4	☐	125.000	130.527	67466.75	0.6105	P	0.9
5	☐	250.000	250.286	131530.20	1.1679	P	0.6
6	☐	500.000	524.377	273252.45	2.4436	P	1.6
7	☐	1000.000	986.965	527075.35	4.5968	P	1.3
8	☐			2297.99	0.0208	P	5.6

$$y = 0.0047 * x + 0.0029$$

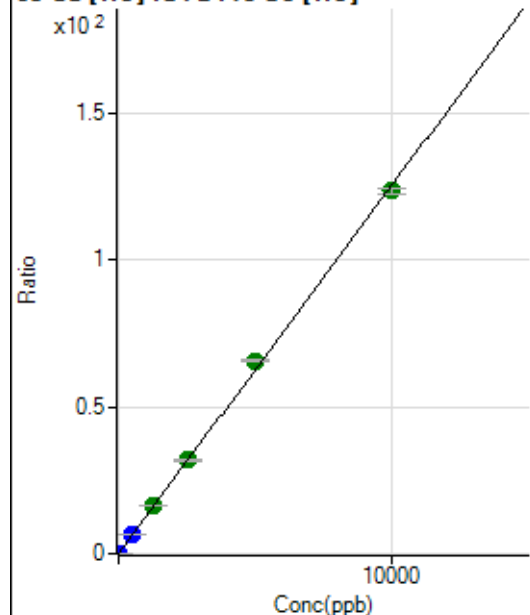
$$R = 0.9995$$

$$DL = 0.06705$$

$$BEC = 0.6295$$

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	502.24	0.0046	P	0.9
2	☐	2.000	2.053	3368.21	0.0303	P	6.7
3	☐	500.000	515.397	728756.42	6.4503	P	1.3
4	☐	1250.000	1319.622	1824328.70	16.5082	A	1.6
5	☐	2500.000	2537.697	3574875.19	31.7418	A	0.9
6	☐	5000.000	5239.024	7327494.61	65.5254	A	1.1
7	☐	10000.000	9861.591	14142173.54	123.3366	A	1.4
8	☐			16812.26	0.1524	P	1.8

$$y = 0.0125 * x + 0.0046$$

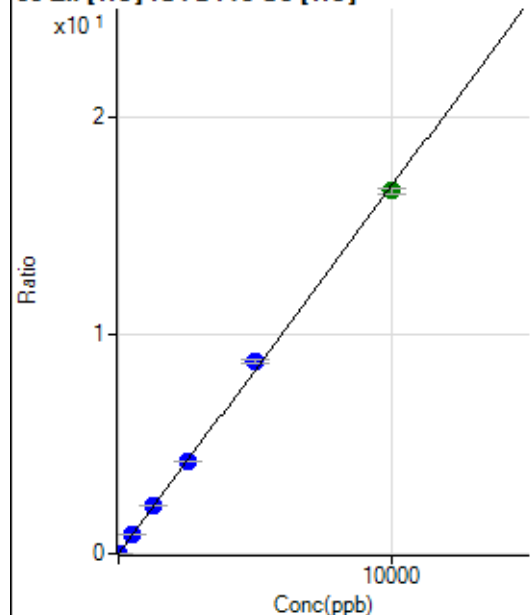
$$R = 0.9996$$

$$DL = 0.009368$$

$$BEC = 0.3664$$

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	138.89	0.0013	P	30.9
2	☐	2.000	2.215	555.57	0.0050	P	13.2
3	☐	500.000	517.982	98498.04	0.8719	P	2.4
4	☐	1250.000	1297.129	241093.66	2.1816	P	1.4
5	☐	2500.000	2522.133	477604.00	4.2407	P	0.3
6	☐	5000.000	5234.937	984110.69	8.8007	P	1.6
7	☐	10000.000	9870.208	1902492.09	16.5921	A	1.3
8	☐			3979.49	0.0361	P	4.3

$$y = 0.0017 * x + 0.0013$$

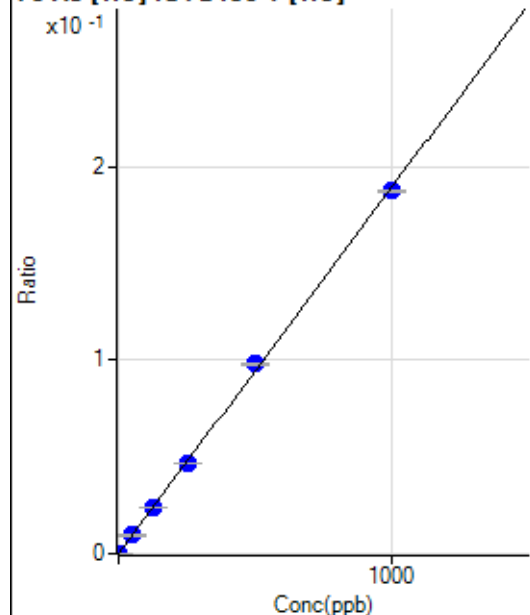
$$R = 0.9996$$

$$DL = 0.7004$$

$$BEC = 0.7545$$

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	11.33	0.0000	P	13.4
2	☐	1.000	0.958	150.68	0.0002	P	8.0
3	☐	50.000	50.136	7325.64	0.0095	P	1.5
4	☐	125.000	127.171	18403.12	0.0241	P	0.5
5	☐	250.000	247.743	36455.09	0.0469	P	1.2
6	☐	500.000	517.943	75391.57	0.0980	P	0.7
7	☐	1000.000	991.315	146978.36	0.1875	P	0.8
8	☐			208.69	0.0003	P	4.7

$$y = 1.8914E-004 * x + 1.5031E-005$$

$$R = 0.9998$$

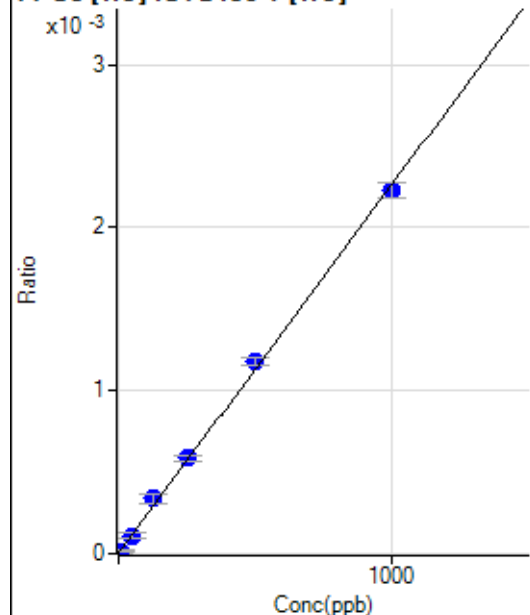
$$DL = 0.03192$$

$$BEC = 0.07947$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	2.22	0.0000	P	173.2
2	☐	5.000	5.742	12.22	0.0000	P	56.3
3	☐	50.000	48.299	86.67	0.0001	P	28.7
4	☐	125.000	149.416	260.01	0.0003	P	16.5
5	☐	250.000	257.493	454.45	0.0006	P	6.0
6	☐	500.000	521.590	907.82	0.0012	P	4.7
7	☐	1000.000	984.361	1743.46	0.0022	P	4.1
8	☐			2.22	0.0000	P	173.2

$$y = 2.2565\text{E-}006 * x + 2.9337\text{E-}006$$

$$R = 0.9993$$

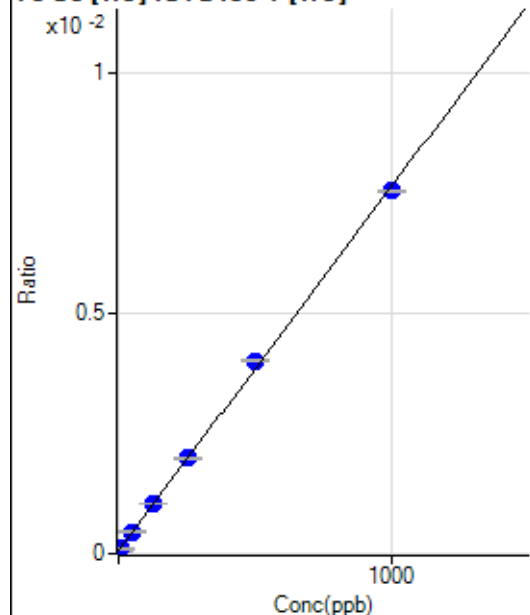
$$DL = 6.756$$

$$BEC = 1.3$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	46.34	0.0001	P	12.3
2	☐	5.000	5.587	79.68	0.0001	P	8.9
3	☐	50.000	50.718	343.37	0.0004	P	10.4
4	☐	125.000	130.877	804.44	0.0011	P	1.2
5	☐	250.000	253.875	1542.24	0.0020	P	0.6
6	☐	500.000	520.536	3078.65	0.0040	P	1.2
7	☐	1000.000	987.990	5909.51	0.0075	P	0.8
8	☐			58.68	0.0001	P	17.6

$$y = 7.5684\text{E-}006 * x + 6.1479\text{E-}005$$

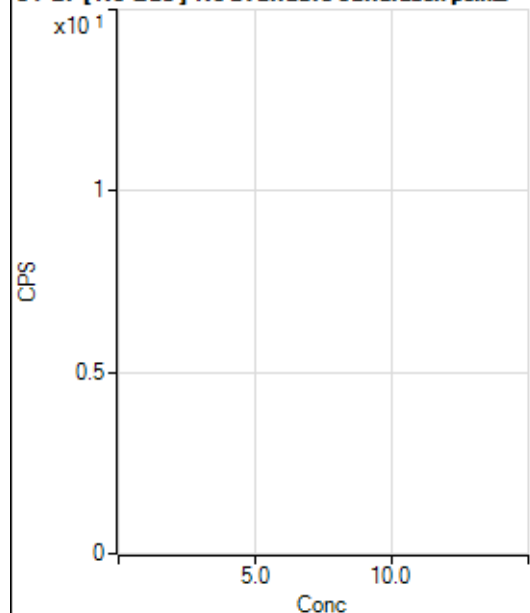
$$R = 0.9997$$

$$DL = 2.987$$

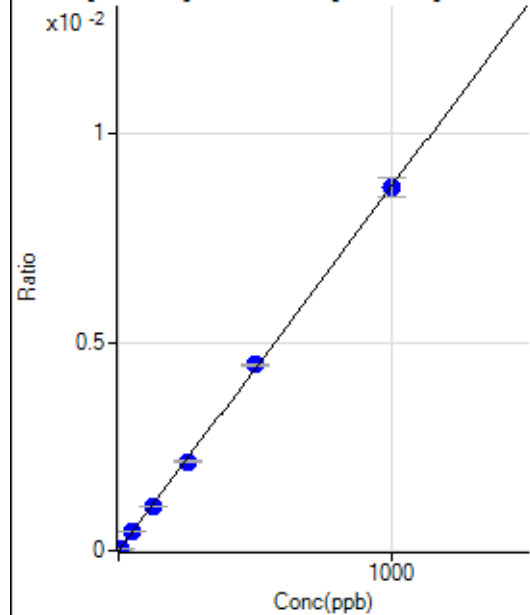
$$BEC = 8.123$$

Weight: <None>

Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			4905.92		P	2.9
2	☐			4578.84		P	6.4
3	☐			4478.69		P	0.9
4	☐			4555.43		P	2.4
5	☐			4495.40		P	1.1
6	☐			4565.46		P	9.6
7	☐			4812.46		P	5.7
8	☐			5636.98		P	7.4

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	-29.02	0.0000	P	-214.
2	☐	5.000	4.775	246.22	0.0000	P	15.5
3	☐	50.000	51.165	2867.04	0.0004	P	2.2
4	☐	125.000	121.427	7007.81	0.0011	P	2.1
5	☐	250.000	245.018	14095.47	0.0021	P	1.2
6	☐	500.000	510.606	28866.86	0.0045	P	0.6
7	☐	1000.000	996.332	56580.84	0.0087	P	5.1
8	☐			77.33	0.0000	P	48.7

$$y = 8.7425E-006 * x - 4.5517E-006$$

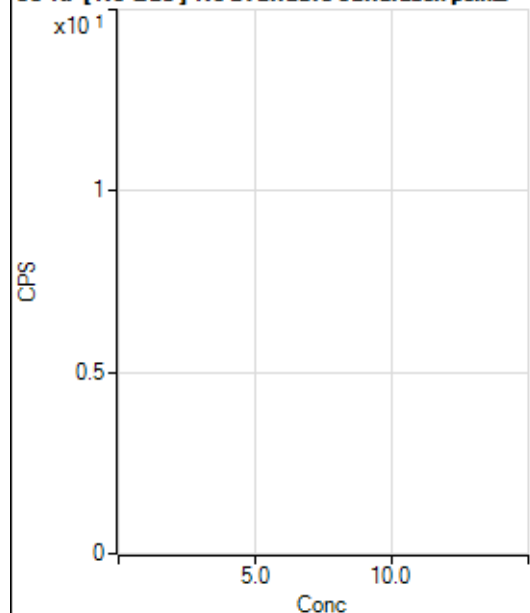
$$R = 0.9999$$

$$DL = 3.356$$

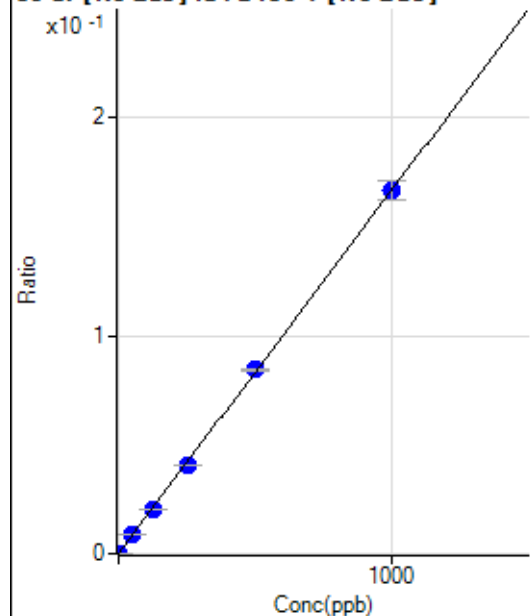
$$BEC = -0.5206$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			350.01		P	7.2
2	☐			334.45		P	6.5
3	☐			355.56		P	4.7
4	☐			345.56		P	5.7
5	☐			333.34		P	6.2
6	☐			344.45		P	4.6
7	☐			356.67		P	14.7
8	☐			347.79		P	8.2

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	522.24	0.0001	P	1.9
2	☐	1.000	0.829	1455.67	0.0002	P	13.4
3	☐	50.000	50.664	55145.44	0.0085	P	0.9
4	☐	125.000	121.299	134412.28	0.0203	P	1.3
5	☐	250.000	242.074	266257.12	0.0404	P	1.0
6	☐	500.000	506.400	546205.54	0.0844	P	0.5
7	☐	1000.000	999.211	1081477.78	0.1664	P	5.2
8	☐			6915.76	0.0011	P	2.5

$$y = 1.6645E-004 * x + 8.2113E-005$$

$$R = 0.9999$$

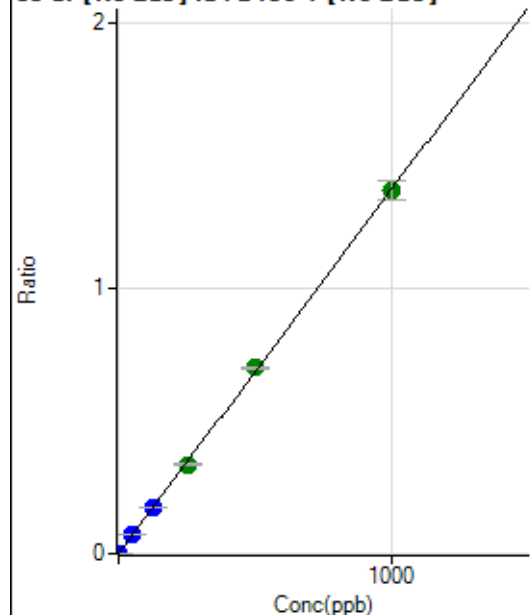
$$DL = 0.02814$$

$$BEC = 0.4933$$

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	63.89	0.0000	P	21.5
2	☐	1.000	0.914	8383.29	0.0013	P	4.6
3	☐	50.000	51.285	456584.36	0.0705	P	2.3
4	☐	125.000	125.830	1147037.50	0.1730	P	1.6
5	☐	250.000	245.081	2222055.06	0.3370	A	1.1
6	☐	500.000	509.862	4537691.51	0.7010	A	0.7
7	☐	1000.000	996.131	8900583.27	1.3696	A	5.3
8	☐			57418.67	0.0088	P	2.2

$$y = 0.0014 * x + 1.0070E-005$$

$$R = 0.9999$$

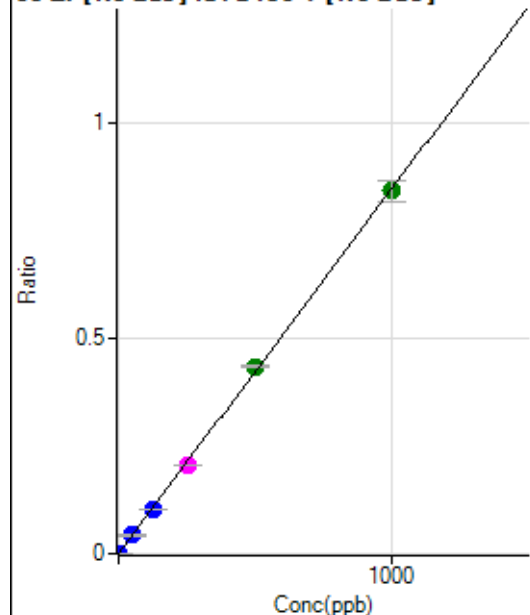
$$DL = 0.004718$$

$$BEC = 0.007324$$

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	297.23	0.0000	P	20.9
2	☐	1.000	0.913	5417.86	0.0008	P	7.6
3	☐	50.000	50.200	274961.24	0.0425	P	2.3
4	☐	125.000	121.656	681951.87	0.1029	P	1.3
5	☐	250.000	242.909	1354028.10	0.2053	M	0.6
6	☐	500.000	513.550	2809873.26	0.4340	A	1.0
7	☐	1000.000	995.406	5466794.78	0.8412	A	5.5
8	☐			6123.75	0.0009	P	3.8

$$y = 8.4508E-004 * x + 4.6856E-005$$

$$R = 0.9998$$

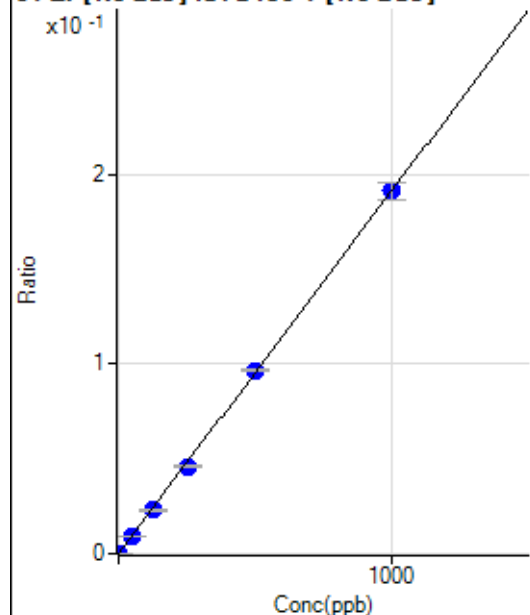
$$DL = 0.0347$$

$$BEC = 0.05545$$

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	72.23	0.0000	P	16.0
2	☐	1.000	0.858	1161.19	0.0002	P	6.0
3	☐	50.000	49.209	60905.83	0.0094	P	2.7
4	☐	125.000	119.504	151360.69	0.0228	P	1.8
5	☐	250.000	240.624	303056.01	0.0460	P	1.6
6	☐	500.000	504.653	623836.65	0.0964	P	0.8
7	☐	1000.000	1000.744	1242045.21	0.1911	P	5.0
8	☐			1408.45	0.0002	P	3.6

$$y = 1.9095\text{E-}004 * x + 1.1334\text{E-}005$$

$$R = 0.9999$$

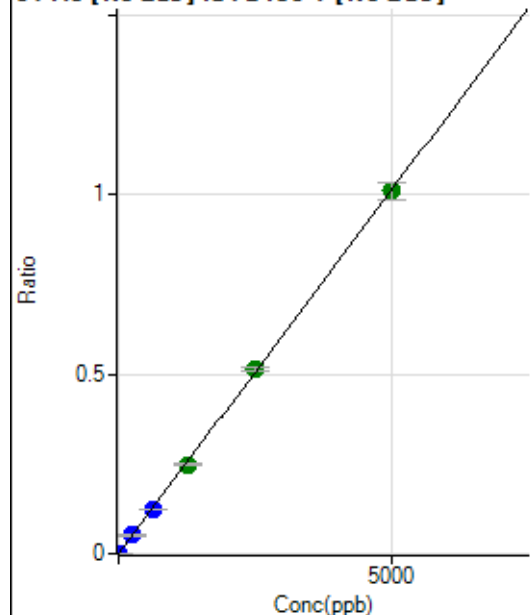
$$DL = 0.02849$$

$$BEC = 0.05936$$

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	111.12	0.0000	P	13.2
2	☐	5.000	4.225	5773.57	0.0009	P	4.2
3	☐	250.000	251.355	329280.64	0.0509	P	2.3
4	☐	625.000	611.204	819722.56	0.1236	P	2.3
5	☐	1250.000	1224.071	1632868.94	0.2476	A	1.1
6	☐	2500.000	2536.248	3320756.69	0.5130	A	1.4
7	☐	5000.000	4990.016	6560472.71	1.0094	A	5.1
8	☐			7410.52	0.0011	P	3.4

$$y = 2.0228\text{E-}004 * x + 1.7495\text{E-}005$$

$$R = 0.9999$$

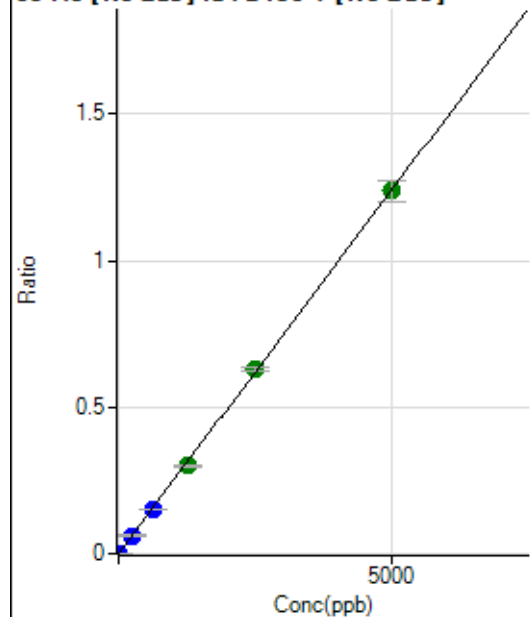
$$DL = 0.03422$$

$$BEC = 0.08649$$

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	55.56	0.0000	P	53.9
2	☐	5.000	4.548	7527.26	0.0011	P	2.4
3	☐	250.000	250.753	402512.59	0.0622	P	1.8
4	☐	625.000	609.386	1001549.68	0.1511	P	1.8
5	☐	1250.000	1215.370	1986703.73	0.3013	A	2.2
6	☐	2500.000	2537.848	4072049.05	0.6291	A	1.9
7	☐	5000.000	4991.648	8040140.54	1.2374	A	6.0
8	☐			9578.58	0.0015	P	2.3

$$y = 2.4789\text{E-}004 * x + 8.7950\text{E-}006$$

$$R = 0.9999$$

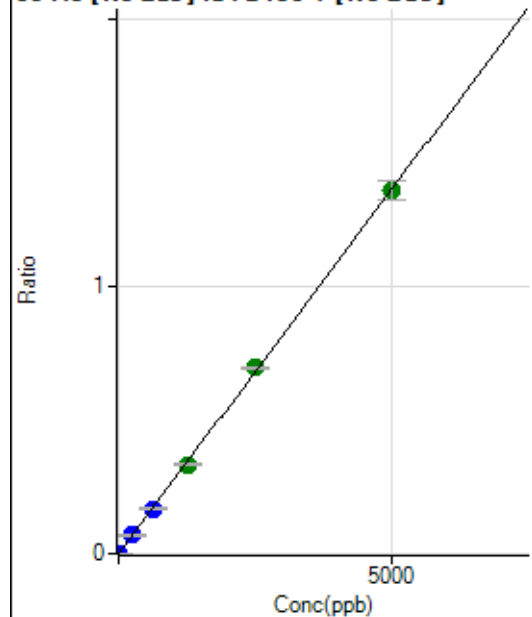
$$DL = 0.05741$$

$$BEC = 0.03548$$

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	50.00	0.0000	P	75.4
2	☐	5.000	4.410	7991.40	0.0012	P	4.1
3	☐	250.000	252.245	444075.64	0.0686	P	2.8
4	☐	625.000	618.753	1115421.09	0.1682	P	2.0
5	☐	1250.000	1220.107	2187637.18	0.3318	A	1.8
6	☐	2500.000	2549.247	4486866.94	0.6932	A	0.8
7	☐	5000.000	4983.519	8806621.29	1.3550	A	5.1
8	☐			11271.55	0.0017	P	1.5

$$y = 2.7190\text{E-}004 * x + 7.8095\text{E-}006$$

$$R = 0.9999$$

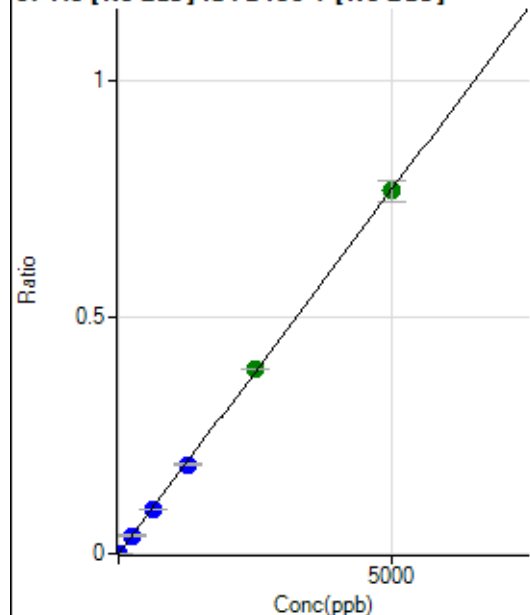
$$DL = 0.06493$$

$$BEC = 0.02872$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	30.56	0.0000	P	69.1
2	☐	5.000	4.384	4503.62	0.0007	P	4.3
3	☐	250.000	250.698	250026.58	0.0386	P	2.4
4	☐	625.000	609.729	622736.54	0.0939	P	1.1
5	☐	1250.000	1223.190	1242423.91	0.1884	P	1.4
6	☐	2500.000	2541.251	2533980.53	0.3914	A	0.6
7	☐	5000.000	4987.952	4992322.60	0.7683	A	5.8
8	☐			5798.62	0.0009	P	5.4

$$y = 1.5403\text{E-}004 * x + 4.7930\text{E-}006$$

$$R = 0.9999$$

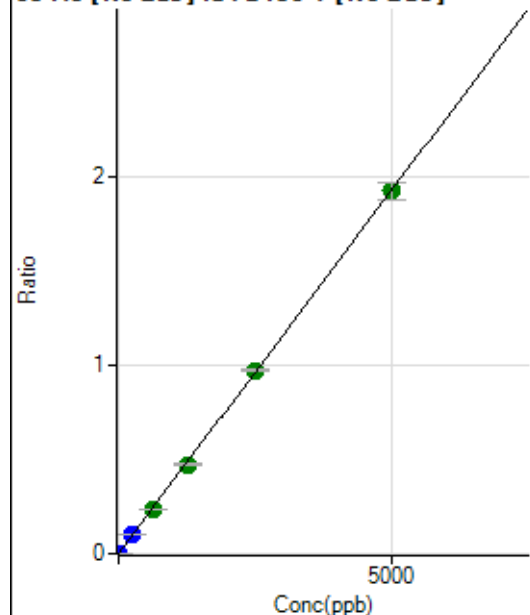
$$DL = 0.06451$$

$$BEC = 0.03112$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	63.89	0.0000	P	7.1
2	☐	5.000	4.407	11343.84	0.0017	P	3.5
3	☐	250.000	256.330	641332.08	0.0991	P	1.7
4	☐	625.000	614.908	1575265.78	0.2376	A	1.9
5	☐	1250.000	1228.915	3131316.87	0.4748	A	0.9
6	☐	2500.000	2525.080	6315908.39	0.9757	A	0.2
7	☐	5000.000	4993.677	12540748.20	1.9295	A	4.9
8	☐			14966.77	0.0023	P	2.2

$$y = 3.8638\text{E-}004 * x + 1.0042\text{E-}005$$

$$R = 1.0000$$

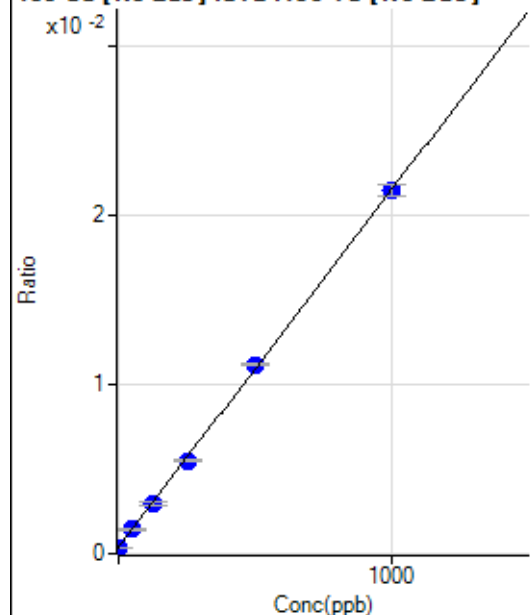
$$DL = 0.005547$$

$$BEC = 0.02599$$

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	1372.33	0.0004	P	4.4
2	☐	1.000	0.512	1475.11	0.0004	P	1.3
3	☐	50.000	50.540	5320.61	0.0014	P	5.2
4	☐	125.000	121.611	10901.85	0.0029	P	7.4
5	☐	250.000	241.327	20852.29	0.0055	P	1.8
6	☐	500.000	510.641	41064.33	0.0112	P	1.4
7	☐	1000.000	997.245	80319.71	0.0214	P	3.1
8	☐			1461.24	0.0004	P	3.0

$$y = 2.1127\text{E-}005 * x + 3.7940\text{E-}004$$

$$R = 0.9999$$

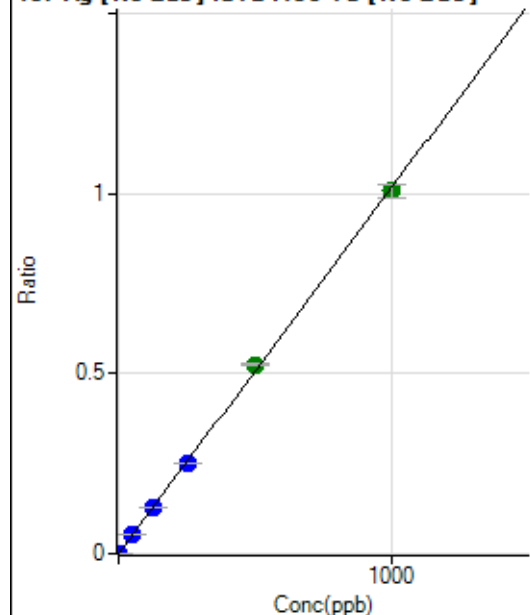
$$DL = 2.346$$

$$BEC = 17.96$$

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	50.00	0.0000	P	34.7
2	☐	1.000	0.889	3461.64	0.0009	P	6.5
3	☐	50.000	52.020	194254.95	0.0528	P	1.0
4	☐	125.000	126.516	475184.34	0.1285	P	2.5
5	☐	250.000	246.429	952119.82	0.2502	P	1.4
6	☐	500.000	517.700	1932701.02	0.5256	A	1.3
7	☐	1000.000	991.753	3769959.42	1.0069	A	3.7
8	☐			4128.51	0.0011	P	6.1

$$y = 0.0010 * x + 1.3886\text{E-}005$$

$$R = 0.9998$$

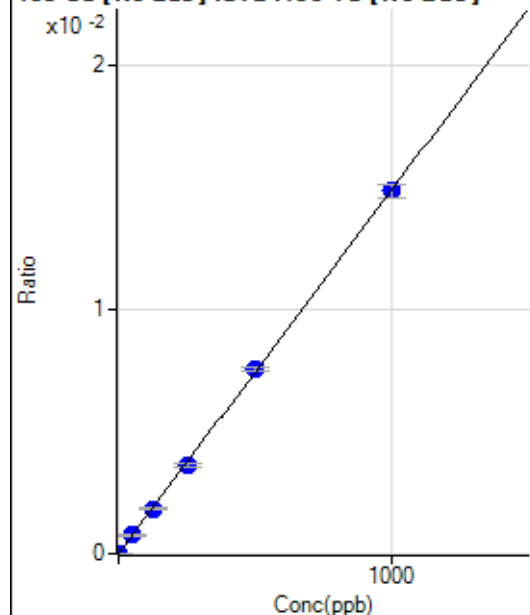
$$DL = 0.01423$$

$$BEC = 0.01368$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	18.06	0.0000	P	105.3
2	☐	1.000	0.727	59.72	0.0000	P	12.4
3	☐	50.000	50.709	2796.16	0.0008	P	7.6
4	☐	125.000	121.947	6740.62	0.0018	P	4.0
5	☐	250.000	243.800	13841.80	0.0036	P	3.5
6	☐	500.000	507.228	27807.29	0.0076	P	1.9
7	☐	1000.000	998.283	55711.85	0.0149	P	3.8
8	☐			97.22	0.0000	P	19.8

$$y = 1.4900\text{E-}005 * x + 4.9843\text{E-}006$$

$$R = 0.9999$$

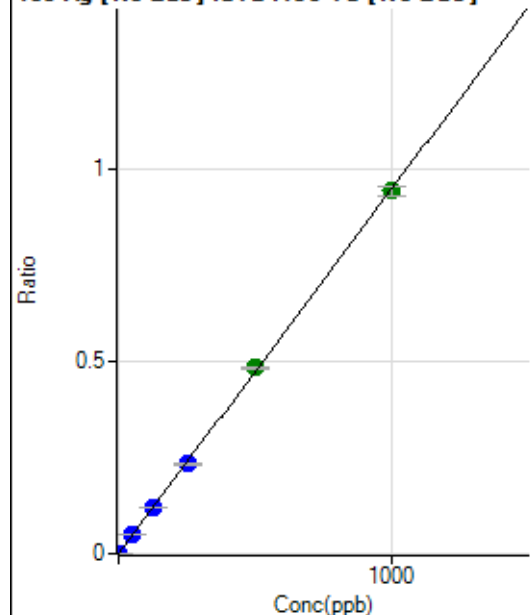
$$DL = 1.057$$

$$BEC = 0.3345$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	38.89	0.0000	P	109.5
2	☐	1.000	0.869	3150.45	0.0008	P	6.7
3	☐	50.000	51.982	181025.06	0.0492	P	2.0
4	☐	125.000	127.448	446442.51	0.1207	P	2.5
5	☐	250.000	246.388	887800.77	0.2333	P	1.7
6	☐	500.000	509.780	1774854.45	0.4827	A	1.1
7	☐	1000.000	995.608	3530460.28	0.9427	A	2.7
8	☐			4173.00	0.0011	P	3.6

$$y = 9.4685\text{E-}004 * x + 1.0815\text{E-}005$$

$$R = 0.9999$$

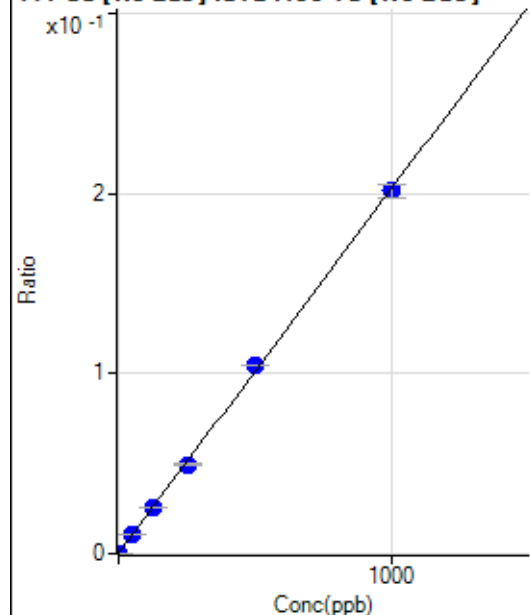
$$DL = 0.03752$$

$$BEC = 0.01142$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	964.66	0.0003	P	6.7
2	☐	1.000	1.026	1793.58	0.0005	P	2.2
3	☐	50.000	50.886	38829.47	0.0106	P	3.0
4	☐	125.000	125.142	94621.17	0.0256	P	3.2
5	☐	250.000	242.141	187416.09	0.0492	P	1.7
6	☐	500.000	515.805	384649.70	0.1046	P	0.5
7	☐	1000.000	994.000	753843.22	0.2013	P	3.9
8	☐			1885.41	0.0005	P	3.3

$$y = 2.0229\text{E-}004 * x + 2.6668\text{E-}004$$

$$R = 0.9998$$

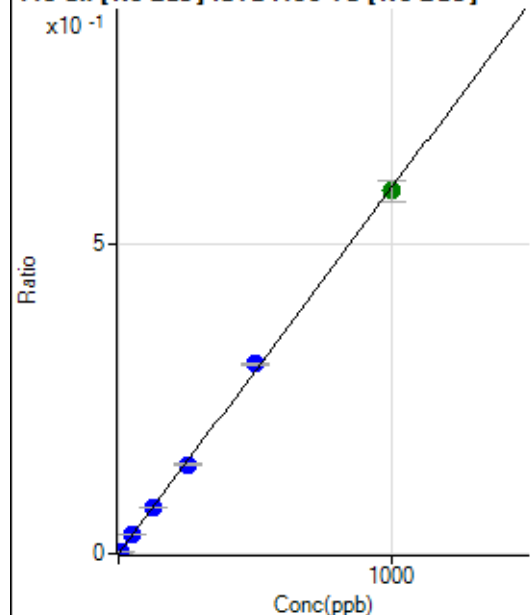
$$DL = 0.2639$$

$$BEC = 1.318$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	305.56	0.0001	P	20.7
2	☐	5.000	4.533	10448.67	0.0028	P	4.2
3	☐	50.000	51.417	112143.62	0.0305	P	1.1
4	☐	125.000	125.812	275622.91	0.0745	P	1.8
5	☐	250.000	244.255	550151.87	0.1446	P	1.0
6	☐	500.000	518.331	1127662.26	0.3067	P	0.4
7	☐	1000.000	992.101	2196443.43	0.5869	A	6.0
8	☐			2428.07	0.0006	P	3.1

$$y = 5.9149\text{E-}004 * x + 8.4565\text{E-}005$$

$$R = 0.9997$$

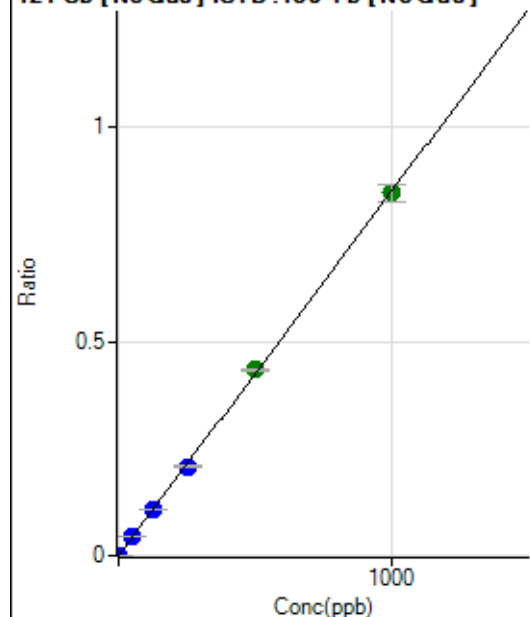
$$DL = 0.08861$$

$$BEC = 0.143$$

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	13.89	0.0000	P	34.2
2	☐	2.000	1.808	5829.16	0.0015	P	5.3
3	☐	50.000	51.089	159915.35	0.0435	P	0.6
4	☐	125.000	125.576	395451.19	0.1069	P	1.4
5	☐	250.000	245.099	793885.72	0.2086	P	1.5
6	☐	500.000	510.421	1597432.78	0.4344	A	1.4
7	☐	1000.000	995.889	3172865.76	0.8476	A	5.1
8	☐			4498.07	0.0012	P	7.0

$$y = 8.5114\text{E-}004 * x + 3.8361\text{E-}006$$

$$R = 0.9999$$

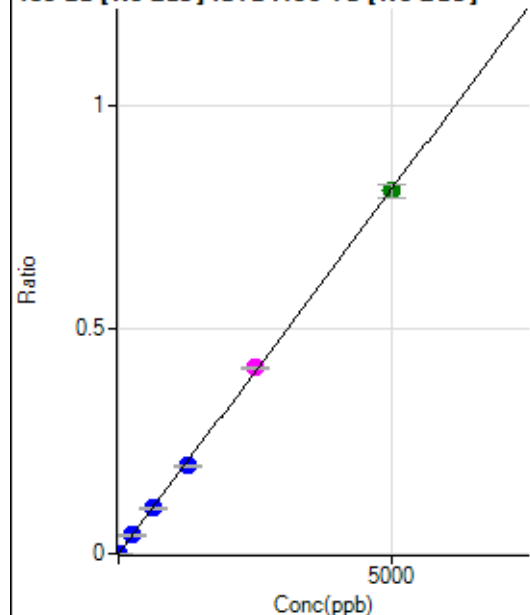
$$DL = 0.004629$$

$$BEC = 0.004507$$

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	16.66	0.0000	P	87.4
2	☐	10.000	9.301	5726.37	0.0015	P	6.6
3	☐	250.000	252.184	150738.27	0.0410	P	1.1
4	☐	625.000	620.564	373206.46	0.1009	P	0.9
5	☐	1250.000	1211.824	749481.11	0.1970	P	2.2
6	☐	2500.000	2556.569	1527864.45	0.4155	M	1.4
7	☐	5000.000	4981.706	3031555.99	0.8097	A	3.9
8	☐			8024.81	0.0021	P	4.7

$$y = 1.6253\text{E-}004 * x + 4.6296\text{E-}006$$

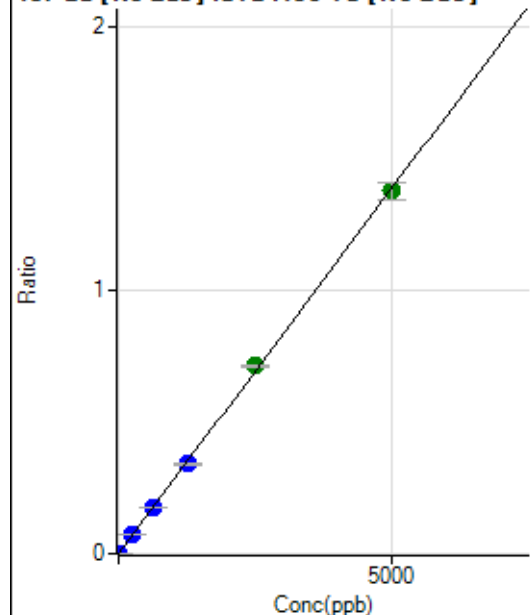
$$R = 0.9999$$

$$DL = 0.07466$$

$$BEC = 0.02848$$

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	58.2
2	☐	10.000	9.272	9750.99	0.0026	P	5.2
3	☐	250.000	254.330	259560.93	0.0706	P	1.1
4	☐	625.000	632.631	649591.69	0.1756	P	1.6
5	☐	1250.000	1225.722	1294416.98	0.3402	P	1.9
6	☐	2500.000	2569.740	2622262.77	0.7132	A	1.0
7	☐	5000.000	4970.031	5163499.94	1.3793	A	4.6
8	☐			13562.76	0.0036	P	1.4

$$y = 2.7752E-004 * x + 6.1943E-006$$

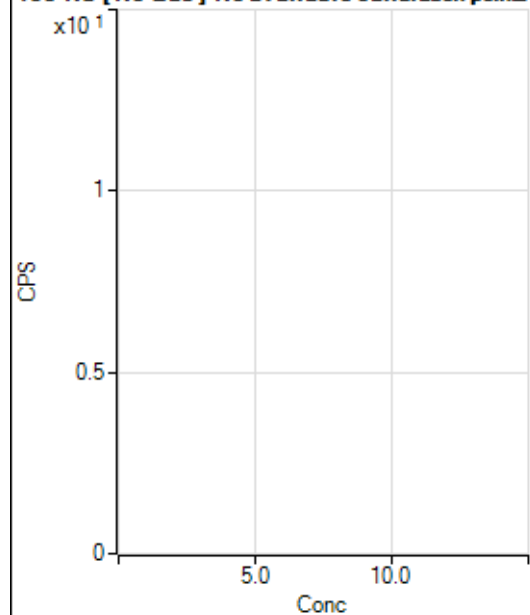
$$R = 0.9998$$

$$DL = 0.03895$$

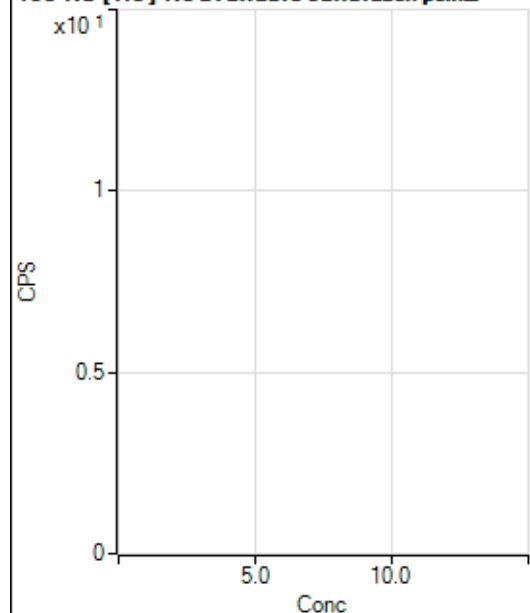
$$BEC = 0.02232$$

Weight: <None>

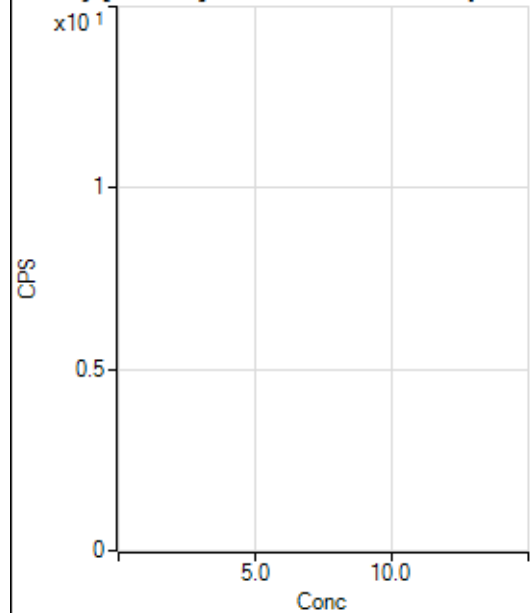
Min Conc: 0

150 Nd [No Gas] No available calibration points

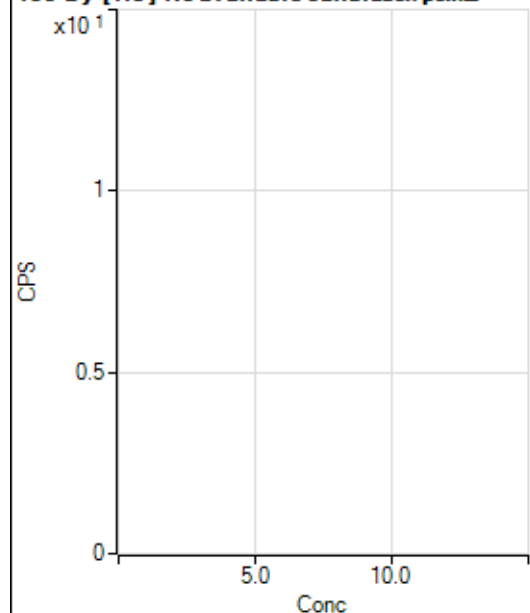
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2.22		P	173.2
2	☐			8.89		P	114.5
3	☐			13.33		P	50.0
4	☐			17.78		P	57.3
5	☐			22.22		P	45.8
6	☐			46.67		P	0.0
7	☐			84.45		P	12.1
8	☐			15.55		P	24.8

150 Nd [He] No available calibration points

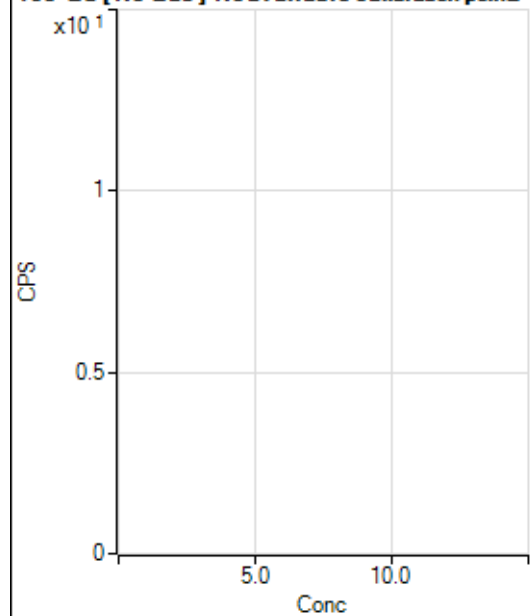
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2.22		P	86.6
2	☐			0.00		P	
3	☐			3.33		P	100.1
4	☐			2.22		P	86.6
5	☐			3.33		P	100.1
6	☐			6.66		P	86.6
7	☐			10.00		P	33.3
8	☐			5.56		P	34.7

156 Dy [No Gas] No available calibration points

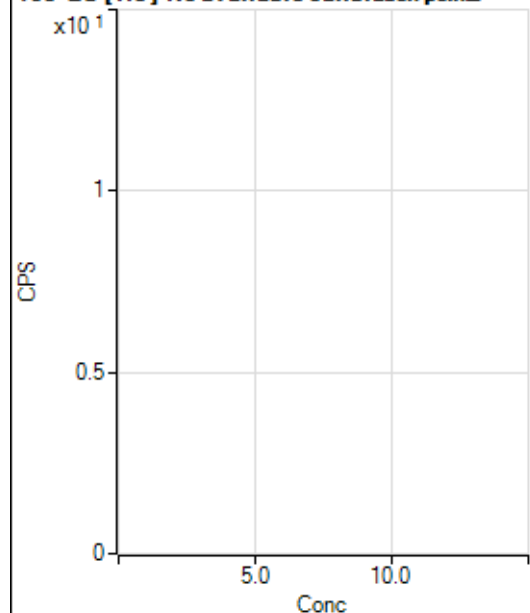
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			11.11		P	114.6
2	☐			5.55		P	86.6
3	☐			8.33		P	0.0
4	☐			13.89		P	34.7
5	☐			22.22		P	21.6
6	☐			41.66		P	34.6
7	☐			80.56		P	52.1
8	☐			166.67		P	10.0

156 Dy [He] No available calibration points

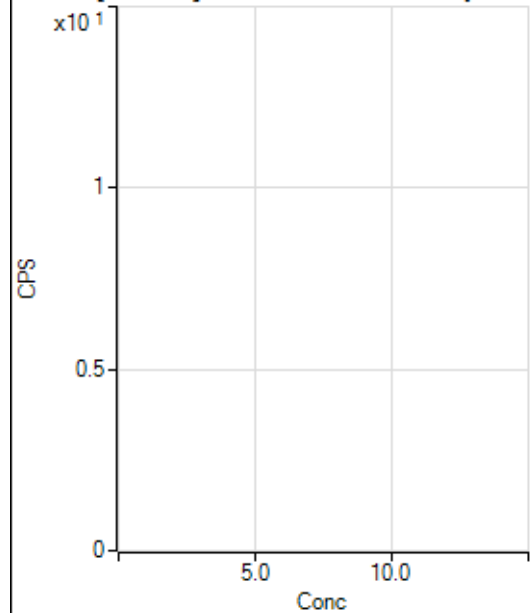
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2.22		P	173.2
2	☐			2.22		P	86.6
3	☐			2.22		P	173.2
4	☐			5.55		P	69.3
5	☐			16.67		P	20.0
6	☐			24.44		P	51.6
7	☐			24.45		P	68.6
8	☐			82.22		P	12.4

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

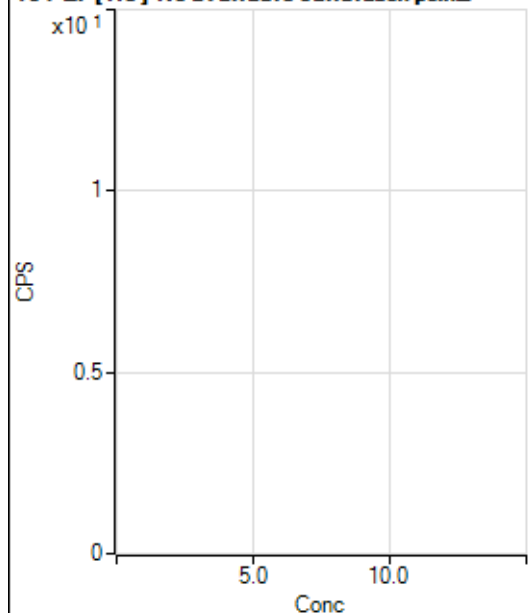
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			30.56		P	31.5
2	☐			41.67		P	100.0
3	☐			36.11		P	81.1
4	☐			50.00		P	16.7
5	☐			47.22		P	44.4
6	☐			44.45		P	28.7
7	☐			55.56		P	8.7
8	☐			205.57		P	25.7

160 Gd [He] No available calibration points

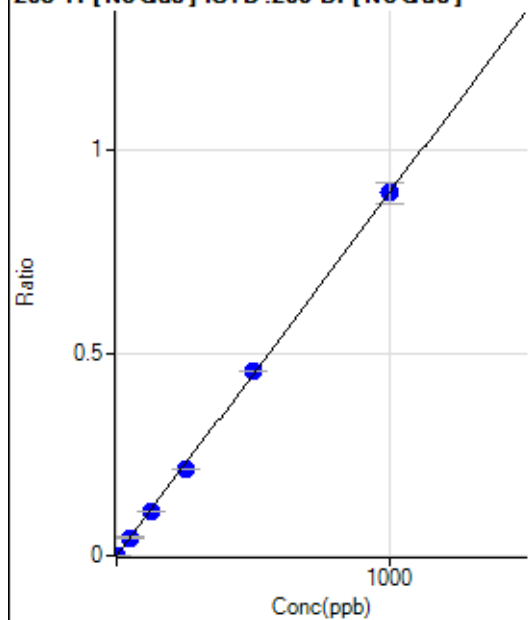
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			7.78		P	89.2
2	☐			10.00		P	115.5
3	☐			21.11		P	32.9
4	☐			15.56		P	32.7
5	☐			16.67		P	72.1
6	☐			25.56		P	30.1
7	☐			35.56		P	35.5
8	☐			122.22		P	21.2

164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			30.56		P	41.7
2	☐			25.00		P	33.3
3	☐			19.45		P	24.7
4	☐			27.78		P	75.5
5	☐			30.56		P	78.7
6	☐			33.33		P	0.0
7	☐			33.33		P	50.0
8	☐			41.67		P	40.0

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			5.55		P	69.3
2	☐			8.89		P	57.3
3	☐			16.67		P	20.0
4	☐			18.89		P	10.2
5	☐			8.89		P	43.3
6	☐			22.22		P	37.8
7	☐			17.78		P	57.3
8	☐			27.78		P	18.3

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	72.22	0.0000	P	50.4
2	☐	1.000	0.838	1361.23	0.0008	P	3.3
3	☐	50.000	49.940	74480.05	0.0447	P	2.2
4	☐	125.000	120.719	184026.57	0.1081	P	1.3
5	☐	250.000	238.035	369381.17	0.2131	P	0.5
6	☐	500.000	507.388	768848.27	0.4541	P	0.3
7	☐	1000.000	999.835	1519821.36	0.8949	P	5.7
8	☐			2025.21	0.0012	P	10.6

$$y = 8.9496E-004 * x + 4.3438E-005$$

$$R = 0.9999$$

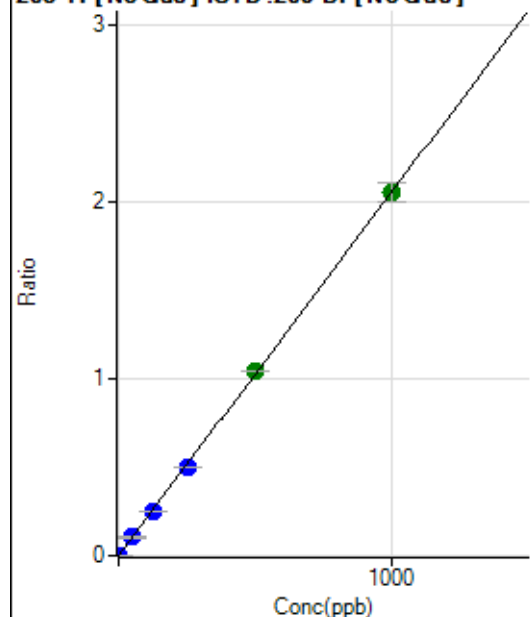
$$DL = 0.0734$$

$$BEC = 0.04854$$

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	113.89	0.0001	P	38.7
2	☐	1.000	0.901	3289.40	0.0019	P	6.4
3	☐	50.000	50.403	172493.07	0.1036	P	0.6
4	☐	125.000	123.869	433361.63	0.2545	P	0.7
5	☐	250.000	241.892	861488.23	0.4969	P	0.9
6	☐	500.000	507.254	1764084.50	1.0420	A	0.5
7	☐	1000.000	998.521	3483871.35	2.0511	A	5.3
8	☐			4553.68	0.0027	P	5.5

$$y = 0.0021 * x + 6.8598E-005$$

$$R = 0.9999$$

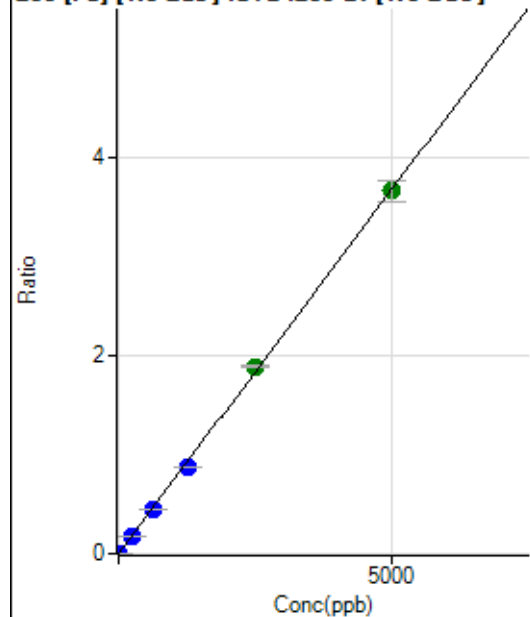
$$DL = 0.03882$$

$$BEC = 0.0334$$

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	261.12	0.0002	P	18.5
2	☐	1.000	0.831	1320.46	0.0008	P	8.1
3	☐	250.000	246.796	302480.08	0.1817	P	1.7
4	☐	625.000	598.778	750178.17	0.4406	P	0.7
5	☐	1250.000	1186.064	1512627.57	0.8725	P	0.2
6	☐	2500.000	2565.456	3194871.92	1.8871	A	1.1
7	☐	5000.000	4986.694	6230014.08	3.6680	A	5.5
8	☐			7433.72	0.0044	P	2.5

$$y = 7.3552E-004 * x + 1.5879E-004$$

$$R = 0.9998$$

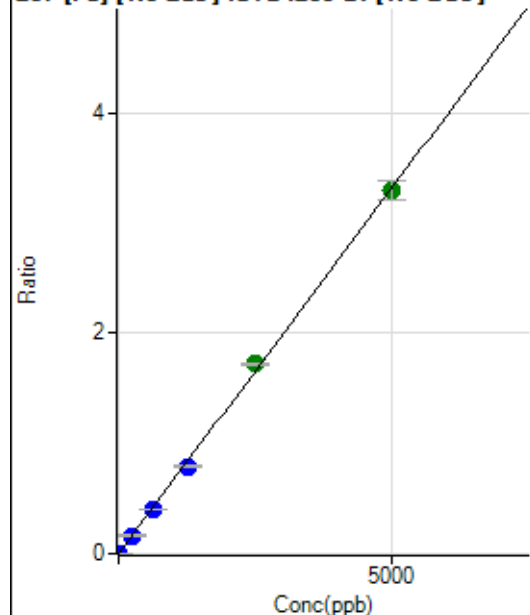
$$DL = 0.1201$$

$$BEC = 0.2159$$

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	216.68	0.0001	P	7.6
2	☐	1.000	0.852	1196.38	0.0007	P	3.9
3	☐	250.000	249.880	275975.67	0.1658	P	1.6
4	☐	625.000	604.047	681973.14	0.4005	P	1.4
5	☐	1250.000	1196.036	1374592.19	0.7929	P	0.5
6	☐	2500.000	2596.506	2913877.26	1.7212	A	1.3
7	☐	5000.000	4967.863	5593435.31	3.2930	A	5.3
8	☐			6509.17	0.0039	P	1.9

$$y = 6.6283E-004 * x + 1.3153E-004$$

$$R = 0.9997$$

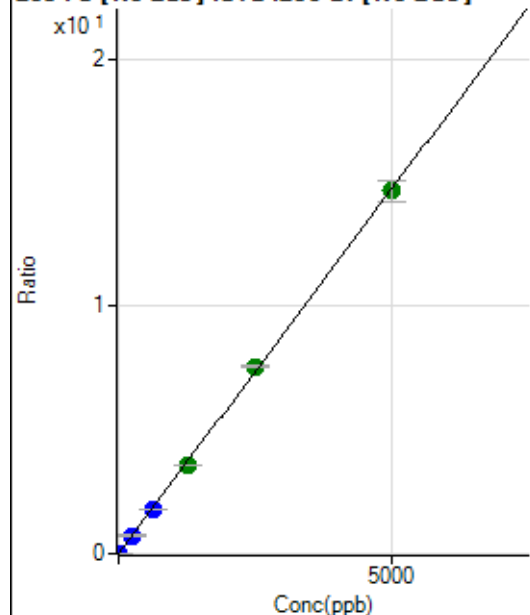
$$DL = 0.04537$$

$$BEC = 0.1984$$

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	1066.71	0.0006	P	7.5
2	☐	1.000	0.852	5419.07	0.0032	P	1.9
3	☐	250.000	250.118	1227165.09	0.7371	P	1.6
4	☐	625.000	607.647	3047431.53	1.7898	P	1.5
5	☐	1250.000	1208.956	6172058.72	3.5602	A	0.6
6	☐	2500.000	2569.430	12809018.13	7.5660	A	0.7
7	☐	5000.000	4977.709	24894147.02	14.6568	A	5.5
8	☐			29611.85	0.0177	P	1.4

$$y = 0.0029 * x + 6.4804E-004$$

$$R = 0.9998$$

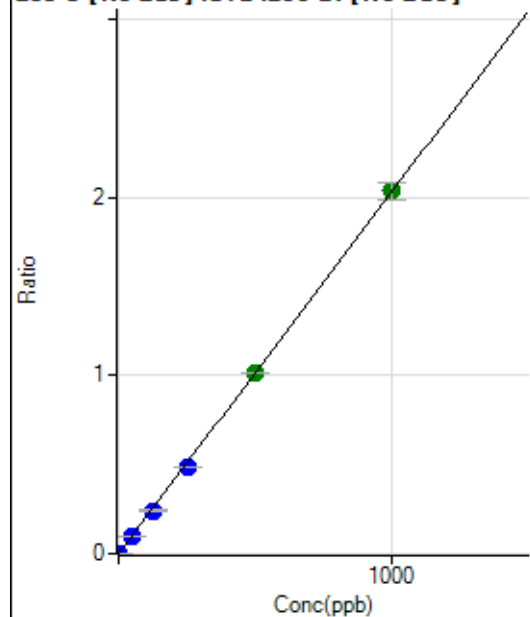
$$DL = 0.04968$$

$$BEC = 0.2201$$

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	16.67	0.0000	P	52.2
2	☐	1.000	0.900	3150.47	0.0018	P	1.8
3	☐	50.000	49.456	166968.29	0.1003	P	2.0
4	☐	125.000	119.459	412475.76	0.2422	P	2.3
5	☐	250.000	237.133	833539.73	0.4808	P	0.2
6	☐	500.000	500.793	1719087.56	1.0154	A	0.1
7	☐	1000.000	1003.540	3456833.97	2.0348	A	4.7
8	☐			3397.77	0.0020	P	2.3

$$y = 0.0020 * x + 1.0210E-005$$

$$R = 0.9999$$

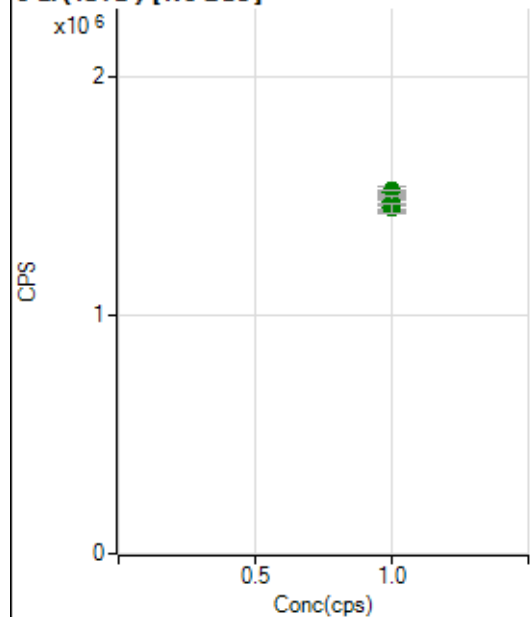
$$DL = 0.007888$$

$$BEC = 0.005036$$

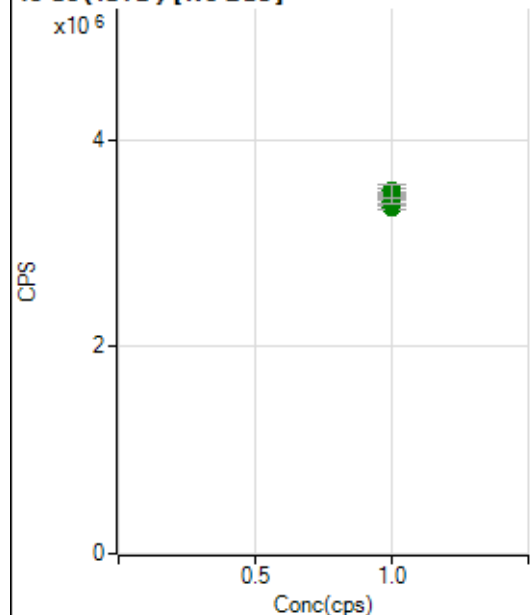
Weight: <None>

Min Conc: 0

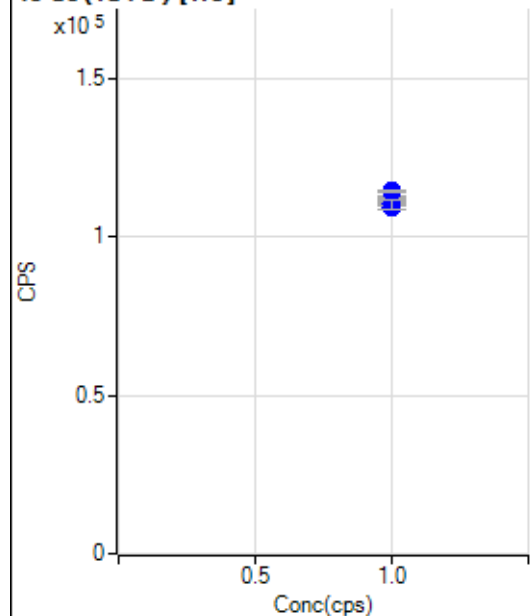
6 Li (ISTD) [No Gas]



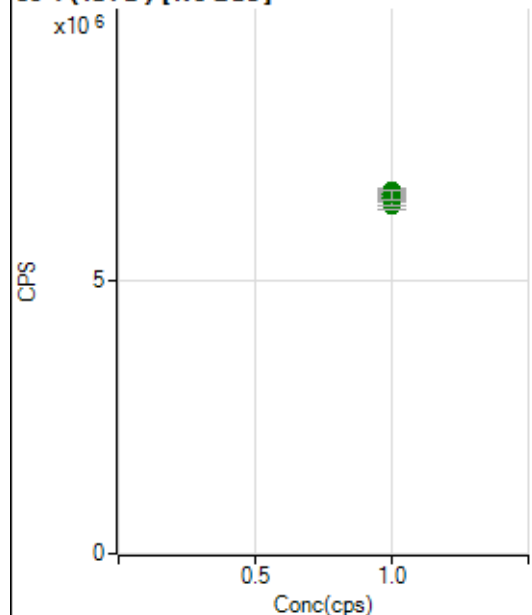
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1449567.77		A	1.7
2	☐	1.000		1521554.89		A	2.9
3	☐	1.000		1473641.46		A	2.3
4	☐	1.000		1500531.57		A	1.8
5	☐	1.000		1516415.41		A	1.2
6	☐	1.000		1485290.12		A	0.6
7	☐	1.000		1469641.03		A	4.1
8	☐	1.000		1450008.48		A	2.8

45 Sc (ISTD) [No Gas]

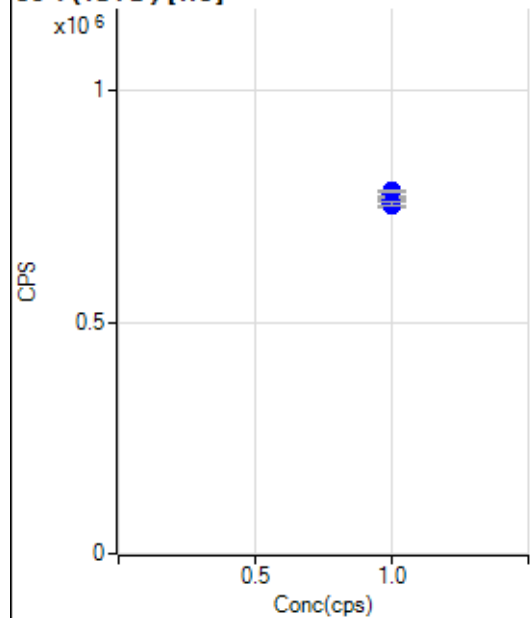
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3351751.51		A	1.1
2	☐	1.000		3499910.23		A	2.3
3	☐	1.000		3393086.96		A	1.5
4	☐	1.000		3483079.01		A	0.3
5	☐	1.000		3502021.65		A	1.4
6	☐	1.000		3413409.64		A	1.2
7	☐	1.000		3441885.22		A	3.4
8	☐	1.000		3510009.91		A	3.4

45 Sc (ISTD) [He]

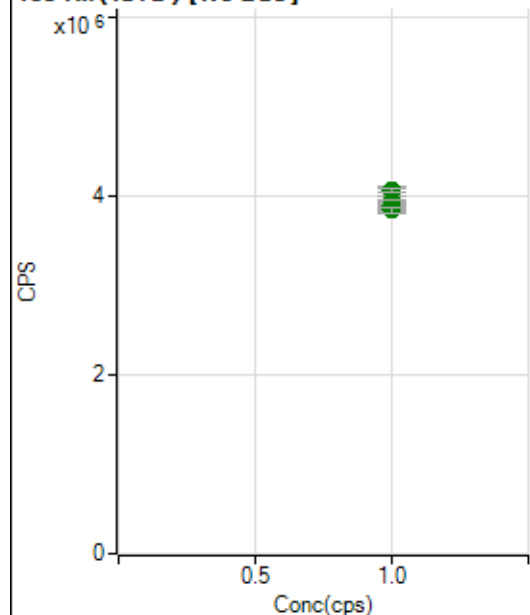
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		109611.02		P	1.4
2	☐	1.000		111358.86		P	0.9
3	☐	1.000		112994.63		P	1.7
4	☐	1.000		110521.23		P	0.9
5	☐	1.000		112624.15		P	0.4
6	☐	1.000		111833.46		P	1.0
7	☐	1.000		114668.87		P	0.6
8	☐	1.000		110324.41		P	2.4

89 Y (ISTD) [No Gas]

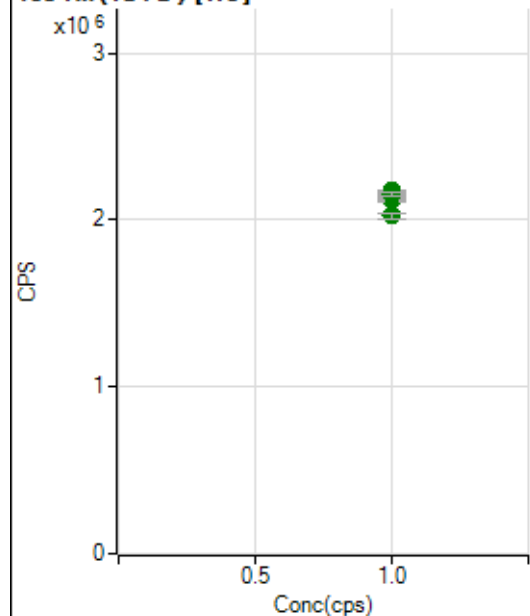
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6361529.21		A	2.0
2	☐	1.000		6624237.26		A	2.0
3	☐	1.000		6475968.37		A	1.8
4	☐	1.000		6630938.58		A	1.5
5	☐	1.000		6594762.19		A	0.9
6	☐	1.000		6473476.36		A	1.2
7	☐	1.000		6508113.31		A	4.0
8	☐	1.000		6562429.00		A	2.7

89 Y (ISTD) [He]

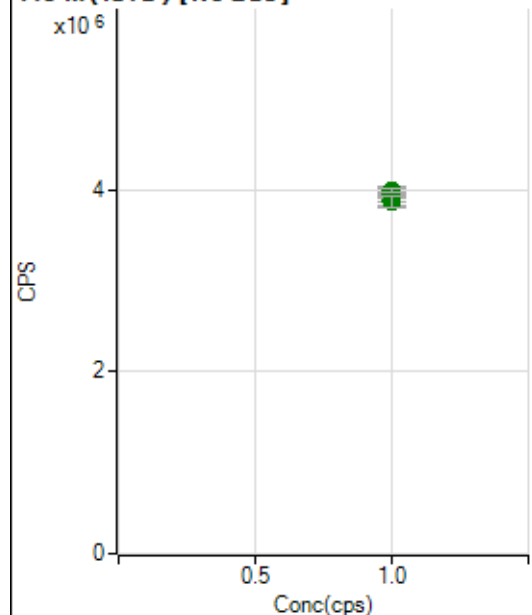
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		754026.36		P	1.2
2	☐	1.000		768055.52		P	0.6
3	☐	1.000		771476.37		P	2.3
4	☐	1.000		764634.31		P	0.9
5	☐	1.000		777793.07		P	1.4
6	☐	1.000		769473.17		P	0.3
7	☐	1.000		783842.64		P	0.5
8	☐	1.000		756478.08		P	0.8

103 Rh (ISTD) [No Gas]

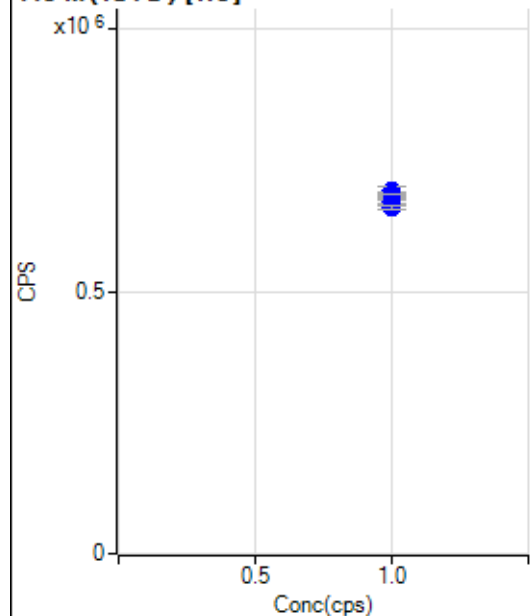
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3861956.86		A	1.3
2	☐	1.000		4039743.71		A	3.7
3	☐	1.000		3967935.59		A	1.6
4	☐	1.000		3961658.86		A	2.1
5	☐	1.000		4059041.97		A	1.1
6	☐	1.000		3855747.05		A	0.5
7	☐	1.000		3899951.35		A	2.9
8	☐	1.000		3850713.50		A	1.7

103 Rh (ISTD) [He]

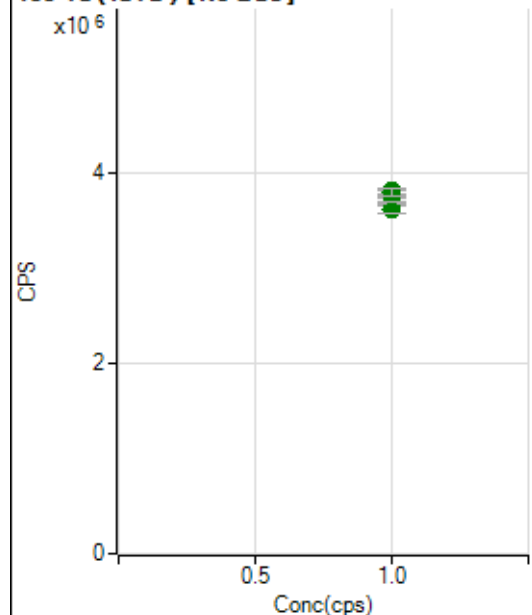
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2119663.20		A	1.4
2	☐	1.000		2149022.94		A	0.8
3	☐	1.000		2164306.83		A	1.1
4	☐	1.000		2138789.72		A	1.9
5	☐	1.000		2173359.39		A	0.5
6	☐	1.000		2157428.25		A	1.6
7	☐	1.000		2155215.40		A	1.1
8	☐	1.000		2025363.81		A	1.5

115 In (ISTD) [No Gas]

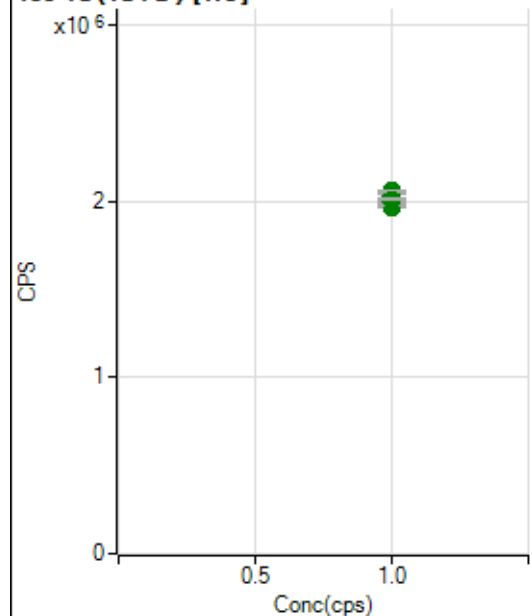
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3877460.24		A	2.4
2	☐	1.000		3979556.17		A	2.8
3	☐	1.000		3928721.90		A	1.0
4	☐	1.000		3954753.95		A	1.5
5	☐	1.000		3992626.15		A	1.0
6	☐	1.000		3893711.94		A	0.7
7	☐	1.000		3893727.90		A	4.3
8	☐	1.000		3876446.97		A	3.6

115 In (ISTD) [He]

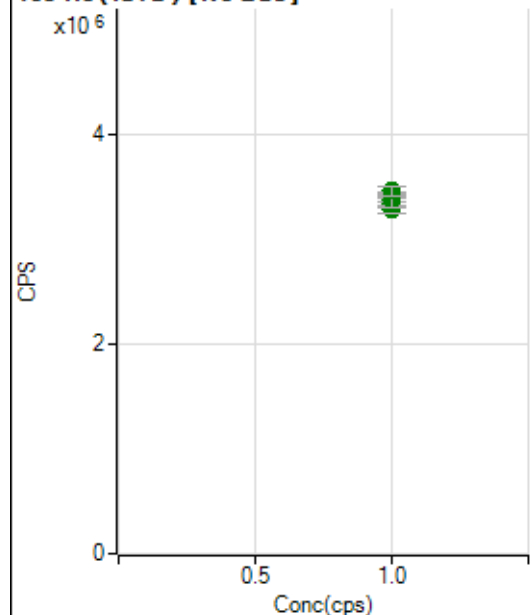
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		670995.35		P	0.6
2	☐	1.000		684441.14		P	1.1
3	☐	1.000		692017.77		P	2.4
4	☐	1.000		681678.20		P	1.0
5	☐	1.000		685713.55		P	1.2
6	☐	1.000		681529.87		P	0.7
7	☐	1.000		684693.16		P	0.0
8	☐	1.000		660231.59		P	1.1

159 Tb (ISTD) [No Gas]

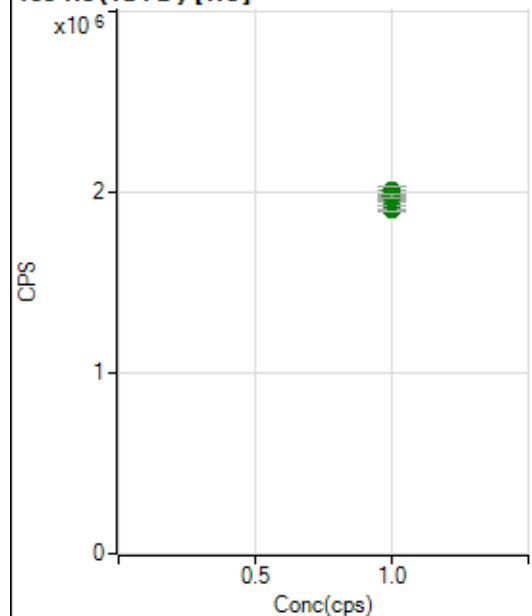
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3616026.23		A	2.4
2	☐	1.000		3780784.18		A	3.0
3	☐	1.000		3677330.02		A	0.6
4	☐	1.000		3700386.33		A	2.0
5	☐	1.000		3805975.95		A	1.5
6	☐	1.000		3677128.31		A	0.6
7	☐	1.000		3747240.53		A	3.2
8	☐	1.000		3791384.04		A	1.8

159 Tb (ISTD) [He]

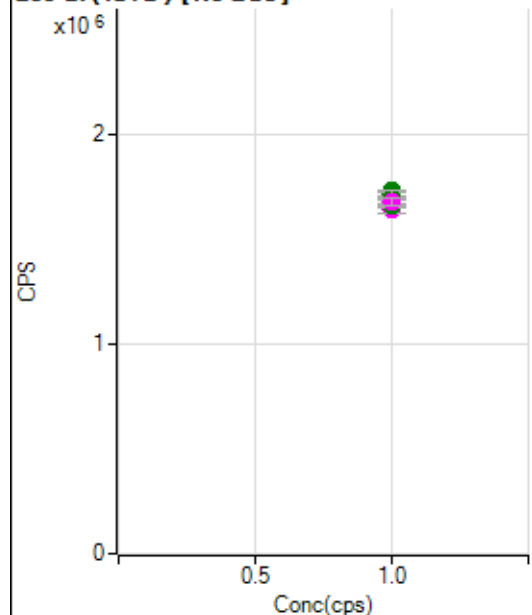
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1969268.74		A	1.0
2	☐	1.000		1967169.03		A	0.3
3	☐	1.000		2009338.65		A	1.3
4	☐	1.000		1983303.37		A	0.5
5	☐	1.000		1990407.56		A	2.0
6	☐	1.000		2028065.35		A	0.8
7	☐	1.000		2057305.15		A	0.3
8	☐	1.000		2009592.07		A	0.5

165 Ho (ISTD) [No Gas]

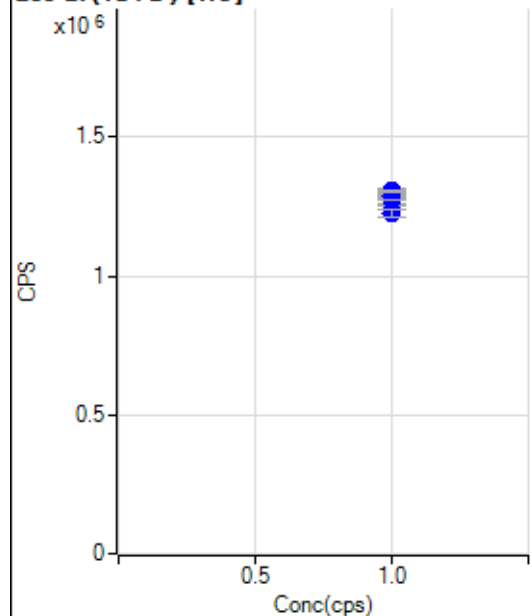
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3279173.70		A	2.1
2	☐	1.000		3417248.12		A	1.9
3	☐	1.000		3334910.21		A	1.1
4	☐	1.000		3415276.99		A	1.3
5	☐	1.000		3454309.02		A	2.7
6	☐	1.000		3376842.65		A	1.3
7	☐	1.000		3375546.45		A	4.3
8	☐	1.000		3459695.65		A	2.7

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1900313.91		A	0.8
2	☐	1.000		1952860.59		A	0.7
3	☐	1.000		1947146.71		A	1.8
4	☐	1.000		1971858.58		A	0.3
5	☐	1.000		1963847.89		A	1.5
6	☐	1.000		1988777.35		A	1.7
7	☐	1.000		2006913.37		A	2.0
8	☐	1.000		1982133.84		A	1.0

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1648379.80		M	2.8
2	☐	1.000		1716447.15		A	2.5
3	☐	1.000		1665114.33		A	1.3
4	☐	1.000		1702785.36		M	0.9
5	☐	1.000		1733592.67		A	0.4
6	☐	1.000		1693005.41		P	0.4
7	☐	1.000		1701172.13		A	4.3
8	☐	1.000		1677415.13		M	2.2

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1258772.26		P	0.6
2	☐	1.000		1274089.07		P	0.5
3	☐	1.000		1305996.00		P	1.7
4	☐	1.000		1283724.38		P	0.3
5	☐	1.000		1297034.01		P	0.8
6	☐	1.000		1287303.06		P	1.6
7	☐	1.000		1306355.16		P	0.9
8	☐	1.000		1227180.71		P	2.0

US EPA Tune Check Report

Operator Name Jaswal
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\P8073020-MS1.b
Acq. Date-Time 2020-07-30 13:08:43
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		3309	33086.25			0.528	5.000
24		33380	333796.33			0.481	5.000
25		4459	44585.81			0.757	5.000
26		5012	50124.53			0.929	5.000
59		22323	223225.83			1.048	5.000
113		2984	29838.67			0.661	5.000
115		9069	90688.06			0.955	5.000
206		2293	22931.72			0.762	5.000
207		1910	19099.77			1.259	5.000
208		4653	46526.28			1.414	5.000
220		1	9.40			40.053	

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

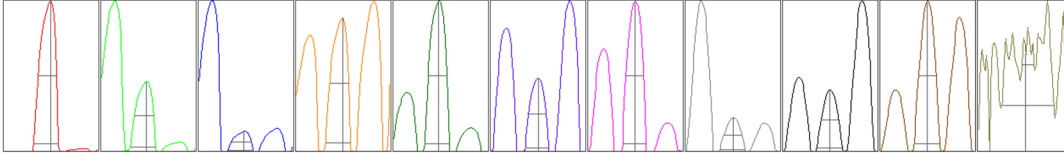
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	3287	3299	3332	3320	3305
24	33118	33374	33469	33542	33396
25	4409	4474	4438	4485	4486
26	4956	4974	5047	5065	5020
59	22010	22188	22578	22517	22321
113	2979	2957	2990	2983	3011
115	8969	9037	9200	9099	9040
206	2294	2289	2296	2318	2269
207	1883	1885	1934	1927	1920
208	4582	4584	4721	4672	4704

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	5970.11	9.00	8.90 - 9.10	
24	58179.91	23.95	23.90 - 24.10	
25	7468.49	24.95	24.90 - 25.10	
26	8597.58	26.00	25.90 - 26.10	
59	39407.92	58.95	58.90 - 59.10	
113	5633.91	113.05	112.90 - 113.10	
115	17101.42	115.00	114.90 - 115.10	
206	4298.38	206.05	205.90 - 206.10	
207	3583.27	207.00	206.90 - 207.10	
208	8797.92	208.00	207.90 - 208.10	
220	0.90	220.05	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.59	0.781	0.900	
24	0.62	0.794	0.900	
25	0.63	0.786	0.900	
26	0.61	0.787	0.900	
59	0.59	0.784	0.900	
113	0.55	0.735	0.900	
115	0.55	0.735	0.900	
206	0.55	0.788	0.900	
207	0.55	0.815	0.900	
208	0.55	0.811	0.900	
220	0.38	1.650		

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 0.46 L/min

US EPA Tune Check Report

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

Lens Parameters

Extract 1	-6.0 V	Omega Lens	8.4 V	Deflect	15.8 V
Extract 2	-215.0 V	Cell Entrance	-30 V	Plate Bias	-50 V
Omega Bias	-105 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	140 V		

QP Parameters

Mass Gain	123	Axis Gain	0.9997	QP Bias	-4.0 V
Mass Offset	123	Axis Offset	-0.06		

Hardware Settings

Torch

Torch H	0.4 mm	Torch V	-0.1 mm
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EM

Discriminator	3.8 mV	Analog HV	2173 V	Pulse HV	1272 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		5482	54821.15			0.661	
89		9558	95576.23			1.050	
205		8038	80379.22			1.395	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	5502	5470	5523	5488	5427
89	9553	9523	9730	9510	9473
205	8102	8082	8164	7943	7899

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	HMI	Nebulizer Gas	0.52 L/min	Dilution Gas	0.46 L/min
RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.40 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	10.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	-6.0 V	Omega Lens	8.4 V	Deflect	5.2 V
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US EPA Tune Check Report

Extract 2	-215.0 V	Cell Entrance	-50 V	Plate Bias	-60 V
Omega Bias	-105 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	123	Axis Gain	0.9997	QP Bias	-13.0 V
Mass Offset	123	Axis Offset	-0.06		
Hardware Settings					
Torch					
Torch H	0.4 mm	Torch V	-0.1 mm		
EM					
Discriminator	3.8 mV	Analog HV	2173 V	Pulse HV	1272 V