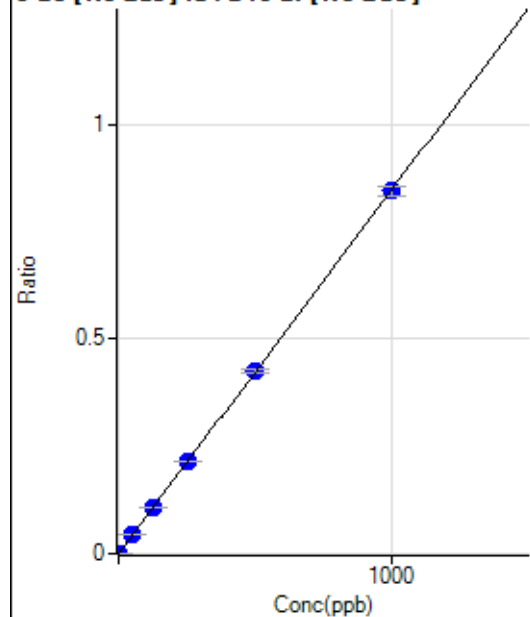


Batch Folder: D:\Agilent\ICPMH\1\DATA\P8021420 TEST.b\
Analysis File: P8021420 TEST.batch.bin
DA Date-Time: 2020-02-14 18:18:31
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	005CALB.d	S00	2020-02-14 16:08:09
2	006CALS.d	S02	2020-02-14 16:11:11
3	007CALS.d	S03	2020-02-14 16:14:11
4	008CALS.d	S04	2020-02-14 16:17:13
5	009CALS.d	S05	2020-02-14 16:20:11
6	010CALS.d	S06	2020-02-14 16:23:11
7	011CALS.d	S07	2020-02-14 16:26:09
8	012CALS.d	S08	2020-02-14 16:29:10

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	24.66	0.0000	P	28.8
2	☐	1.000	1.081	578.57	0.0010	P	6.9
3	☐	50.000	50.586	26635.33	0.0429	P	0.9
4	☐	125.000	127.436	68763.36	0.1081	P	0.5
5	☐	250.000	253.124	139084.42	0.2146	P	1.3
6	☐	500.000	501.732	285535.26	0.4253	P	1.5
7	☐	1000.000	998.019	554205.18	0.8460	P	3.0
8	☐			169.97	0.0003	P	22.3

$$y = 8.4763\text{E-}004 * x + 4.0580\text{E-}005$$

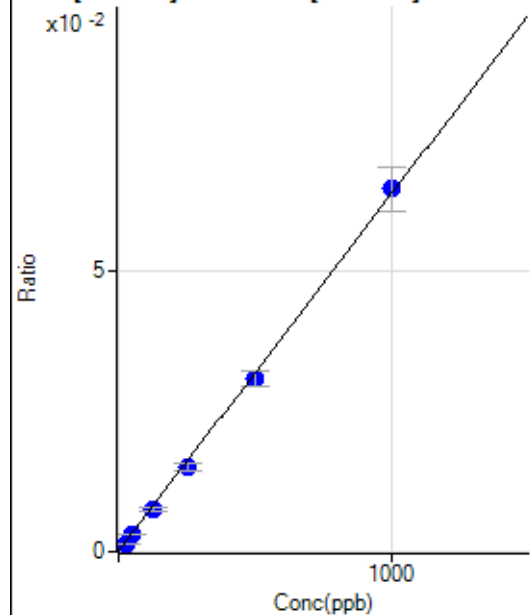
$$R = 1.0000$$

$$DL = 0.04135$$

$$BEC = 0.04787$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	53.99	0.0001	P	16.0
2	☐	25.000	21.459	881.19	0.0015	P	10.3
3	☐	50.000	46.974	1915.08	0.0031	P	8.4
4	☐	125.000	116.607	4789.18	0.0075	P	6.8
5	☐	250.000	235.392	9793.34	0.0151	P	8.1
6	☐	500.000	482.008	20713.84	0.0308	P	8.5
7	☐	1000.000	1013.937	42364.48	0.0647	P	11.9
8	☐			7094.32	0.0110	P	7.1

$$y = 6.3771\text{E-}005 * x + 8.8750\text{E-}005$$

$$R = 0.9997$$

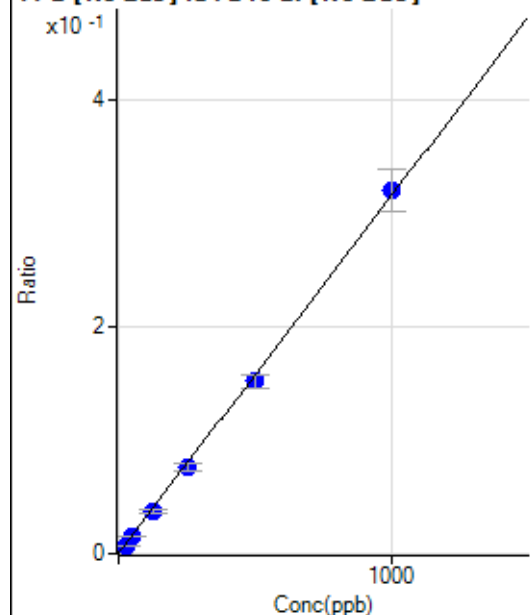
$$DL = 0.6676$$

$$BEC = 1.392$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	206.63	0.0003	P	12.6
2	☐	25.000	21.727	4349.13	0.0072	P	9.9
3	☐	50.000	47.129	9437.18	0.0152	P	6.1
4	☐	125.000	118.705	24042.24	0.0378	P	9.7
5	☐	250.000	239.200	49146.12	0.0758	P	8.3
6	☐	500.000	480.546	102046.11	0.1519	P	6.8
7	☐	1000.000	1013.440	209332.31	0.3199	P	11.6
8	☐			35628.64	0.0555	P	7.2

$$y = 3.1535\text{E-}004 * x + 3.3977\text{E-}004$$

$$R = 0.9997$$

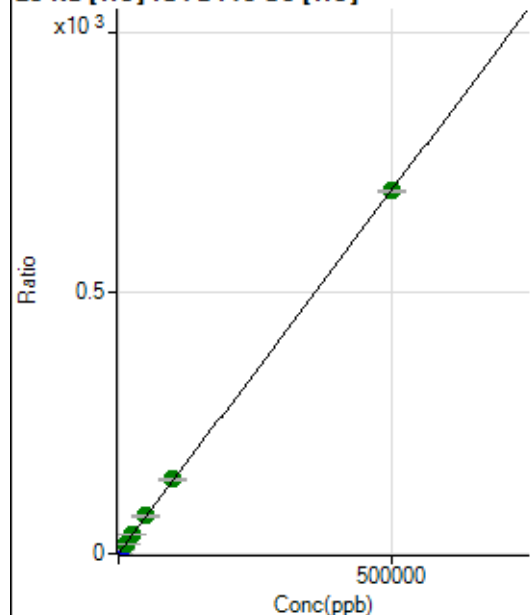
$$DL = 0.4076$$

$$BEC = 1.077$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	33555.75	0.4521	P	0.8
2	☐	500.000	547.942	90251.26	1.2154	P	0.7
3	☐	5000.000	5192.121	581538.55	7.6848	P	1.3
4	☐	12500.000	13300.207	1419569.19	18.9796	A	5.4
5	☐	25000.000	25781.046	2775070.72	36.3656	A	0.9
6	☐	50000.000	52121.123	5548332.98	73.0579	A	4.6
7	☐	100000.00	101651.95	10897329.50	142.0554	A	0.2
8	☐	500000.00	499396.47	51981673.73	696.1219	A	0.3

$$y = 0.0014 * x + 0.4521$$

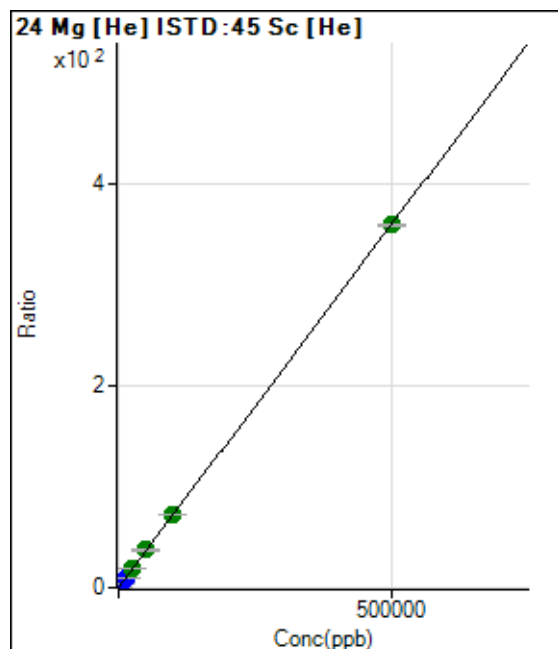
$$R = 1.0000$$

$$DL = 7.952$$

$$BEC = 324.5$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	355.57	0.0048	P	5.0
2	☐	500.000	532.424	28753.96	0.3872	P	0.8
3	☐	5000.000	5218.921	284054.03	3.7534	P	0.7
4	☐	12500.000	13382.272	719459.34	9.6170	P	4.7
5	☐	25000.000	26542.891	1455197.95	19.0700	A	1.2
6	☐	50000.000	52328.516	2855335.53	37.5912	A	4.1
7	☐	100000.00	100946.00	5562173.00	72.5122	A	1.1
8	☐	500000.00	499476.52	26789998.52	358.7681	A	0.7

$$y = 7.1828\text{E-}004 * x + 0.0048$$

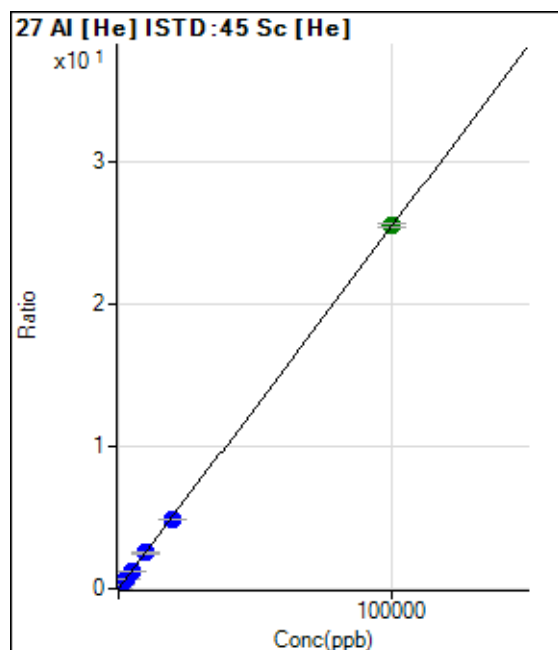
$$R = 1.0000$$

$$DL = 1.008$$

$$BEC = 6.67$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	508.90	0.0069	P	11.8
2	☐	20.000	17.328	836.70	0.0113	P	3.7
3	☐	1000.000	959.457	18995.82	0.2510	P	2.0
4	☐	2500.000	2441.685	47009.04	0.6283	P	4.3
5	☐	5000.000	4878.231	95262.63	1.2484	P	1.2
6	☐	10000.000	9826.948	190436.65	2.5079	P	4.9
7	☐	20000.000	19139.614	374178.77	4.8780	P	1.0
8	☐	100000.00	100197.33	1904691.36	25.5075	A	0.9

$$y = 2.5450\text{E-}004 * x + 0.0069$$

$$R = 1.0000$$

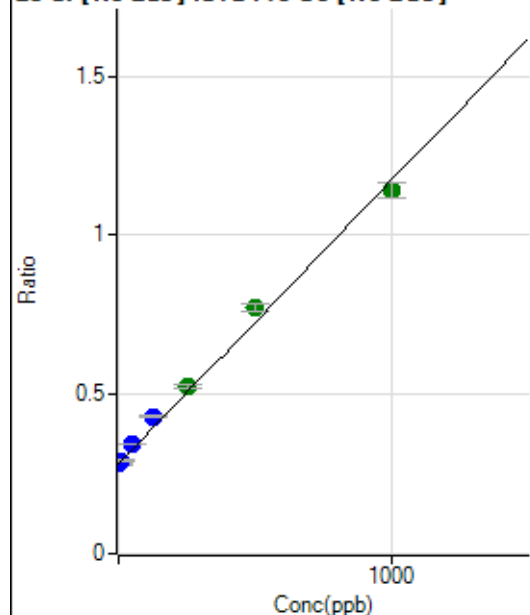
$$DL = 9.503$$

$$BEC = 26.94$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	562704.82	0.2825	P	1.2
2	☐	10.000	10.498	582044.78	0.2919	P	1.4
3	☐	50.000	69.287	692441.14	0.3443	P	0.7
4	☐	125.000	165.535	895082.93	0.4301	P	1.6
5	☐	250.000	274.702	1099250.25	0.5274	A	2.1
6	☐	500.000	551.882	1652600.40	0.7744	A	2.8
7	☐	1000.000	961.847	2354027.11	1.1398	A	4.4
8	☐			738062.38	0.3543	P	0.9

$$y = 8.9127\text{E-}004 * x + 0.2825$$

$$R = 0.9970$$

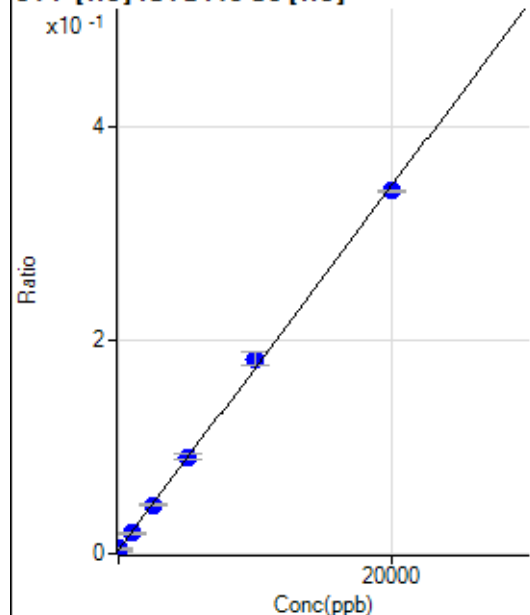
$$DL = 11.11$$

$$BEC = 317$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	-54.938	200.01	0.0027	P	18.0
2	☐	0.000	54.938	338.90	0.0046	P	13.5
3	☐	1000.000	922.223	1464.01	0.0193	P	12.8
4	☐	2500.000	2478.195	3431.06	0.0458	P	6.3
5	☐	5000.000	5103.372	6901.82	0.0905	P	6.0
6	☐	10000.000	10497.299	13829.16	0.1822	P	7.3
7	☐	20000.000	19732.122	26032.18	0.3394	P	0.5
8	☐			219.45	0.0029	P	24.6

$$y = 1.7014\text{E-}005 * x + 0.0036$$

$$R = 0.9995$$

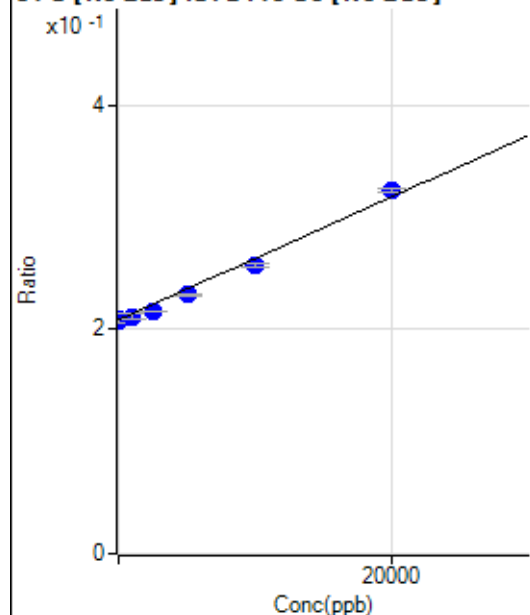
$$DL = 96.86$$

$$BEC = 213.3$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	223.262	417753.11	0.2097	P	0.9
2	☐	0.000	-223.262	413357.96	0.2073	P	1.7
3	☐	1000.000	515.047	425016.97	0.2113	P	2.5
4	☐	2500.000	1385.102	449809.56	0.2161	P	0.7
5	☐	5000.000	4034.026	480713.18	0.2306	P	1.0
6	☐	10000.000	8888.530	548956.02	0.2573	P	1.0
7	☐	20000.000	20960.838	668149.02	0.3235	P	1.2
8	☐			398475.03	0.1913	P	0.6

$$y = 5.4845E-006 * x + 0.2085$$

$$R = 0.9959$$

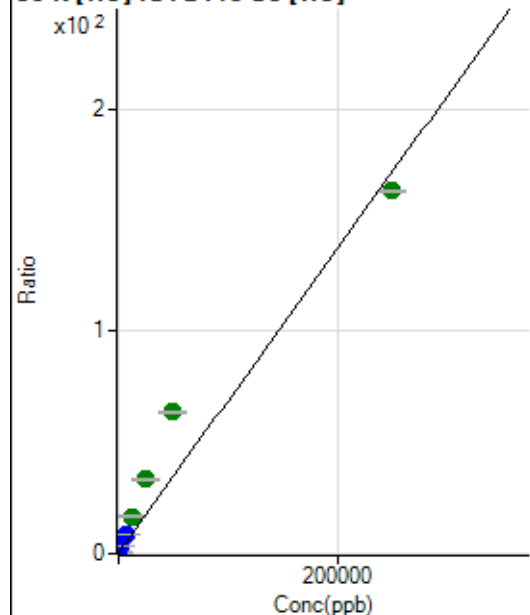
$$DL = 1482$$

$$BEC = 3.802E+04$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	22106.29	0.2978	P	1.9
2	☐	500.000	505.285	47740.90	0.6429	P	1.1
3	☐	2500.000	4792.086	270205.23	3.5706	P	1.2
4	☐	6250.000	12299.339	650647.01	8.6977	P	4.9
5	☐	12500.000	24191.809	1283522.57	16.8198	A	0.5
6	☐	25000.000	48441.069	2535939.14	33.3809	A	3.6
7	☐	50000.000	93082.614	4899151.15	63.8691	A	1.3
8	☐	250000.00	238280.61	12174123.80	163.0329	A	0.6

$$y = 6.8296E-004 * x + 0.2978$$

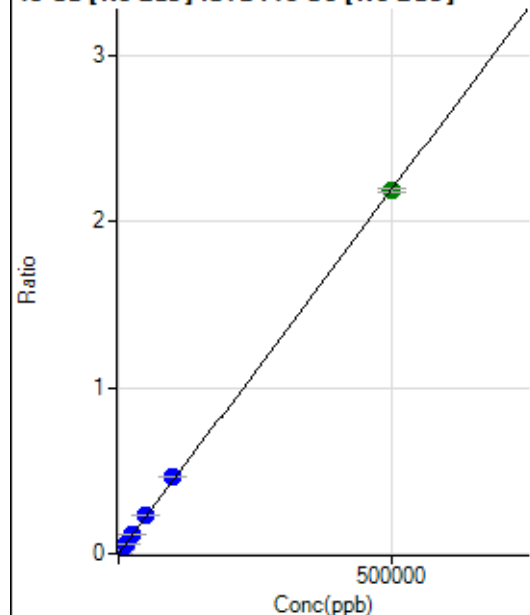
$$R = 0.9802$$

$$DL = 25.49$$

$$BEC = 436.1$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	705.59	0.0004	P	11.6
2	☐	500.000	523.591	5276.10	0.0026	P	4.4
3	☐	5000.000	5205.657	46551.02	0.0231	P	2.0
4	☐	12500.000	12938.750	118615.24	0.0570	P	0.7
5	☐	25000.000	25714.061	235345.71	0.1129	P	1.1
6	☐	50000.000	51858.725	485130.80	0.2274	P	0.8
7	☐	100000.00	105684.89	956232.37	0.4630	P	2.3
8	☐	500000.00	498628.39	4547885.95	2.1830	A	1.2

$$y = 4.3773\text{E-}006 * x + 3.5450\text{E-}004$$

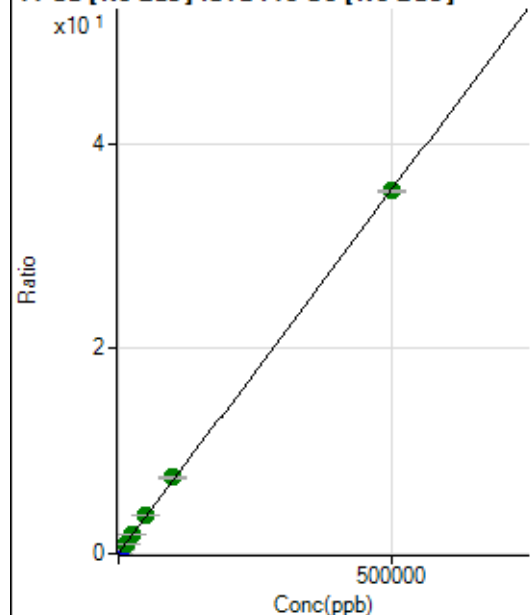
$$R = 0.9999$$

$$DL = 28.12$$

$$BEC = 80.99$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	47046.81	0.0236	P	1.8
2	☐	500.000	543.546	123934.47	0.0622	P	1.9
3	☐	5000.000	5272.321	799227.54	0.3974	P	0.3
4	☐	12500.000	12988.630	1965497.90	0.9444	A	1.0
5	☐	25000.000	25804.764	3861922.01	1.8529	A	0.4
6	☐	50000.000	52049.773	7923666.76	3.7133	A	0.3
7	☐	100000.00	104756.60	15386861.63	7.4496	A	2.0
8	☐	500000.00	498788.48	73712196.09	35.3818	A	0.8

$$y = 7.0888\text{E-}005 * x + 0.0236$$

$$R = 0.9999$$

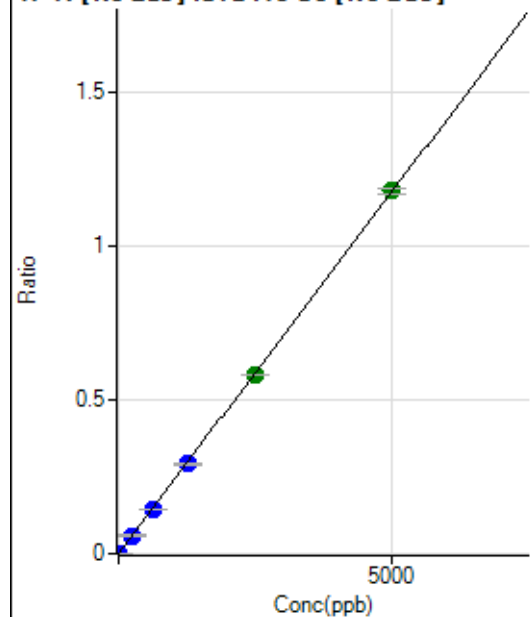
$$DL = 18.15$$

$$BEC = 333.2$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	830.60	0.0004	P	6.0
2	☐	10.000	5.857	3575.54	0.0018	P	5.2
3	☐	250.000	249.744	118773.75	0.0591	P	1.1
4	☐	625.000	618.522	303130.19	0.1456	P	0.3
5	☐	1250.000	1236.068	605779.54	0.2906	P	0.6
6	☐	2500.000	2469.967	1238440.49	0.5804	A	0.5
7	☐	5000.000	5019.331	2435066.96	1.1789	A	1.8
8	☐			1469.56	0.0007	P	10.8

$$y = 2.3480\text{E-}004 * x + 4.1682\text{E-}004$$

$$R = 1.0000$$

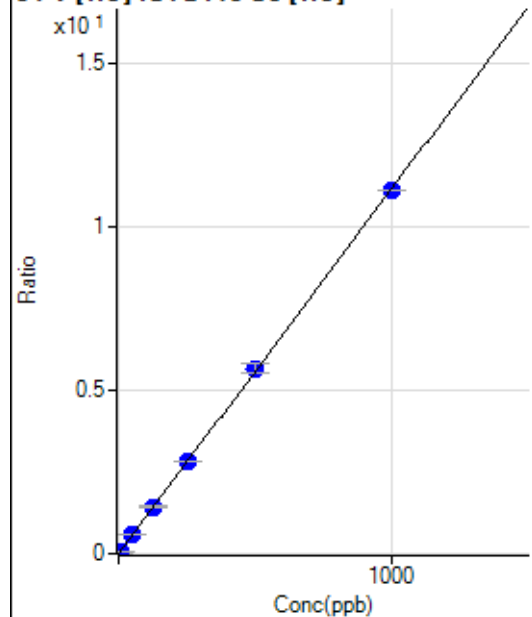
$$DL = 0.3214$$

$$BEC = 1.775$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	16.67	0.0002	P	87.1
2	☐	5.000	5.579	4640.81	0.0625	P	0.9
3	☐	50.000	50.658	42811.67	0.5657	P	0.6
4	☐	125.000	128.450	107252.76	1.4340	P	5.5
5	☐	250.000	251.728	214439.08	2.8101	P	0.3
6	☐	500.000	508.641	431146.47	5.6778	P	5.0
7	☐	1000.000	994.780	851805.20	11.1041	P	0.2
8	☐			388.90	0.0052	P	4.3

$$y = 0.0112 * x + 2.2453\text{E-}004$$

$$R = 0.9999$$

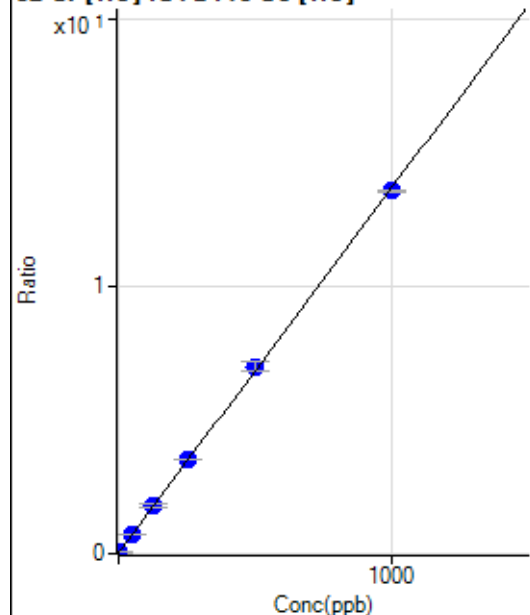
$$DL = 0.05259$$

$$BEC = 0.02012$$

Weight: <None>

Min Conc: 0

52 Cr [He] ISTD:45 Sc [He]



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	1641.22	0.0221	P	10.4
2	☐	2.000	2.048	3714.97	0.0500	P	3.8
3	☐	50.000	50.669	53936.81	0.7127	P	0.5
4	☐	125.000	129.268	133428.80	1.7840	P	5.4
5	☐	250.000	254.497	266385.03	3.4908	P	0.3
6	☐	500.000	511.419	531013.01	6.9924	P	4.8
7	☐	1000.000	992.599	1039454.18	13.5506	P	0.6
8	☐			19278.65	0.2582	P	1.0

$$y = 0.0136 * x + 0.0221$$

$$R = 0.9999$$

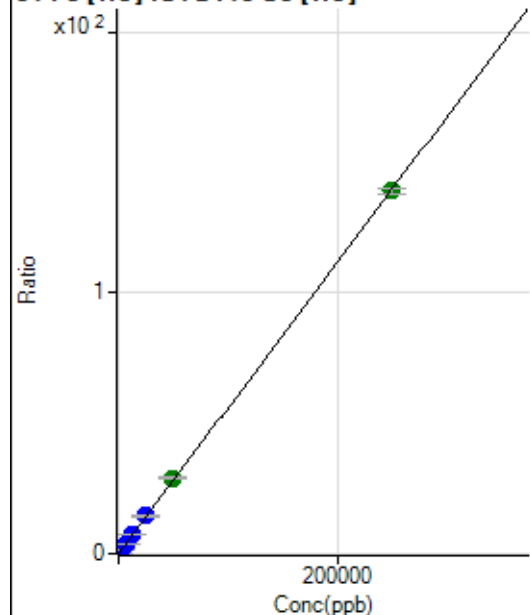
$$DL = 0.5048$$

$$BEC = 1.623$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	553.72	0.0075	P	4.0
2	☐	50.000	56.976	2913.31	0.0392	P	5.3
3	☐	2500.000	2594.966	110076.11	1.4546	P	1.0
4	☐	6250.000	6638.419	277552.98	3.7094	P	4.2
5	☐	12500.000	13208.700	562664.99	7.3734	P	0.6
6	☐	25000.000	26343.483	1116167.44	14.6981	P	4.9
7	☐	50000.000	51824.485	2217375.02	28.9077	A	1.6
8	☐	250000.00	249454.65	10387849.77	139.1173	A	1.9

$$y = 5.5766E-004 * x + 0.0075$$

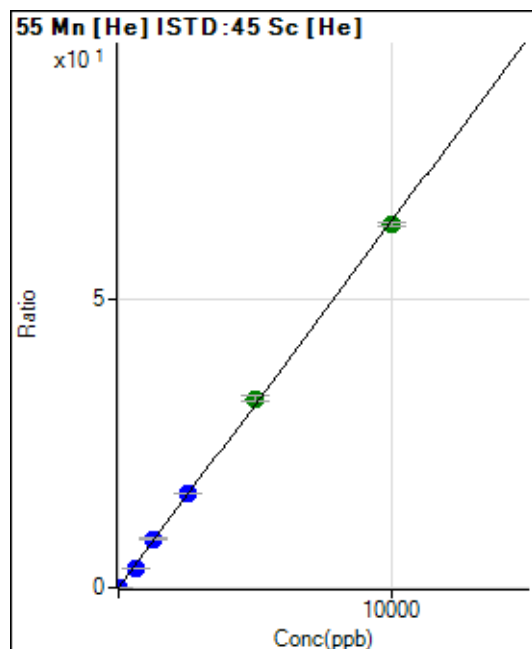
$$R = 1.0000$$

$$DL = 1.619$$

$$BEC = 13.38$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	98.89	0.0013	P	7.2
2	☐	1.000	1.055	596.69	0.0080	P	16.1
3	☐	625.000	510.281	245575.41	3.2452	P	1.5
4	☐	1250.000	1315.695	625987.54	8.3652	P	3.9
5	☐	2500.000	2554.005	1239080.19	16.2371	P	0.5
6	☐	5000.000	5167.344	2495560.61	32.8501	A	3.7
7	☐	10000.000	9901.784	4828439.03	62.9469	A	1.2
8	☐			4795.30	0.0642	P	2.3

$$y = 0.0064 * x + 0.0013$$

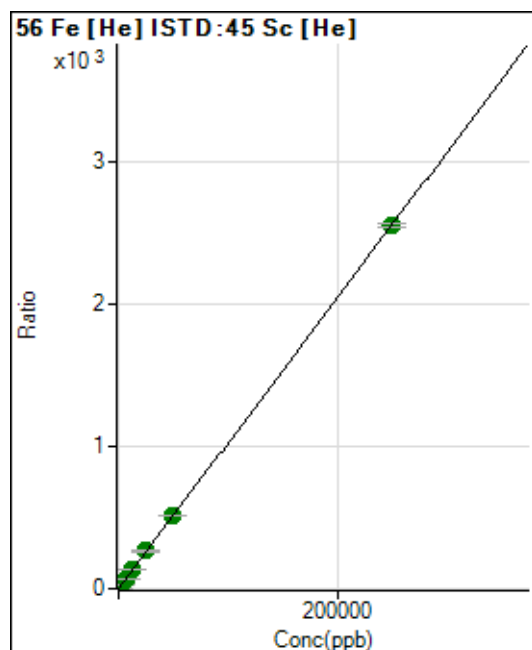
$$R = 0.9996$$

$$DL = 0.04514$$

$$BEC = 0.2096$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	3759.82	0.0507	P	1.2
2	☐	50.000	57.539	47283.96	0.6368	P	1.6
3	☐	2500.000	2648.296	2045107.61	27.0269	A	1.9
4	☐	6250.000	6675.954	5089460.36	68.0538	A	5.8
5	☐	12500.000	12969.748	10085374.07	132.1641	A	0.8
6	☐	25000.000	26107.693	20205237.26	265.9908	A	4.0
7	☐	50000.000	50330.791	39331221.71	512.7340	A	0.6
8	☐	250000.00	249787.45	189998735.7	2,544.454	A	0.9

$$y = 0.0102 * x + 0.0507$$

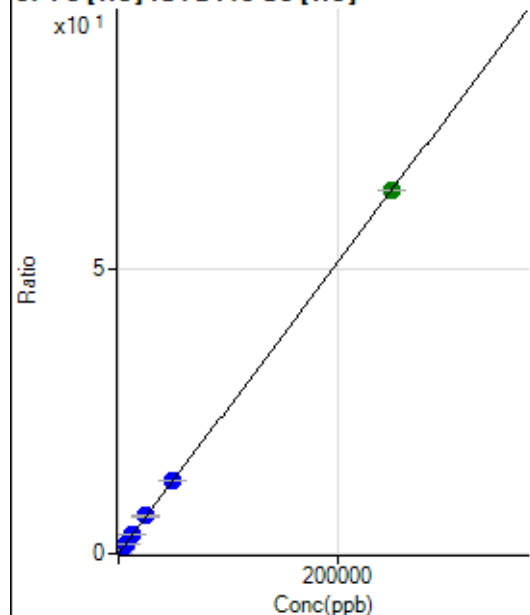
$$R = 1.0000$$

$$DL = 0.185$$

$$BEC = 4.973$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	153.71	0.0021	P	24.2
2	☐	50.000	49.570	1092.66	0.0147	P	11.6
3	☐	2500.000	2592.051	50188.36	0.6632	P	1.3
4	☐	6250.000	6633.070	126715.20	1.6940	P	5.1
5	☐	12500.000	12977.287	252751.08	3.3122	P	0.8
6	☐	25000.000	25972.115	503264.33	6.6268	P	4.6
7	☐	50000.000	50225.561	982881.71	12.8131	P	0.6
8	☐	250000.00	249823.31	4758541.43	63.7243	A	0.1

$$y = 2.5507\text{E-}004 * x + 0.0021$$

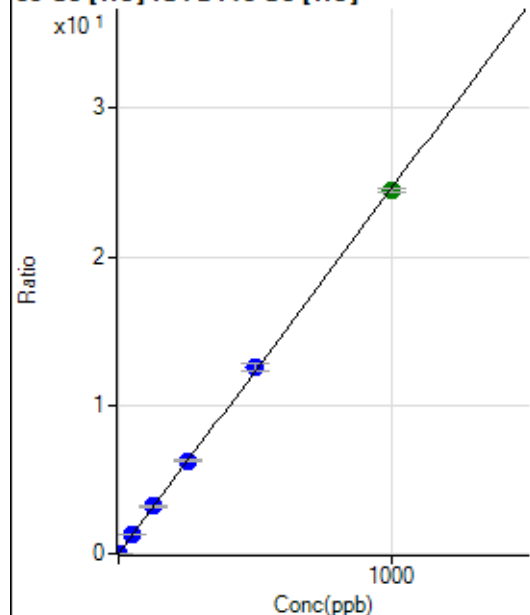
$$R = 1.0000$$

$$DL = 5.903$$

$$BEC = 8.121$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	46.67	0.0006	P	7.3
2	☐	1.000	1.048	1962.38	0.0264	P	1.7
3	☐	50.000	51.040	95129.32	1.2571	P	0.9
4	☐	125.000	130.045	239467.60	3.2019	P	5.7
5	☐	250.000	254.431	478008.67	6.2639	P	0.9
6	☐	500.000	510.188	953922.22	12.5599	P	4.4
7	☐	1000.000	993.115	1875551.87	24.4480	A	1.2
8	☐			3231.51	0.0433	P	2.6

$$y = 0.0246 * x + 6.2878\text{E-}004$$

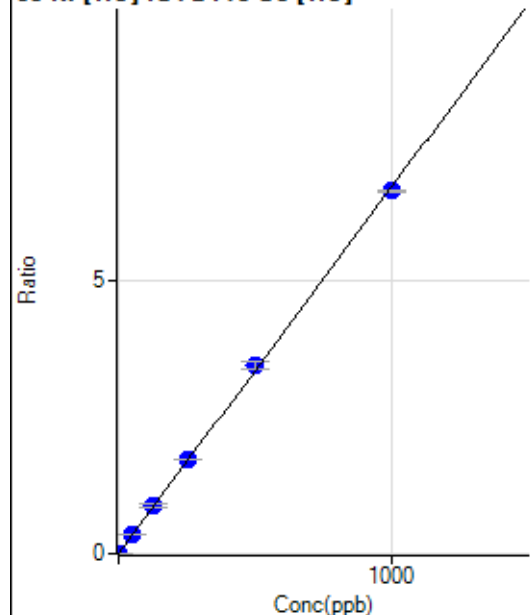
$$R = 0.9999$$

$$DL = 0.005628$$

$$BEC = 0.02554$$

Weight: <None>

Min Conc: 0

60 Ni [He] ISTD:45 Sc [He]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	84.44	0.0011	P	12.2
2	☐	1.000	1.220	691.14	0.0093	P	12.2
3	☐	50.000	51.760	26321.07	0.3478	P	1.9
4	☐	125.000	131.644	66048.01	0.8829	P	5.0
5	☐	250.000	256.086	130989.93	1.7165	P	0.6
6	☐	500.000	515.134	262154.48	3.4517	P	4.5
7	☐	1000.000	989.993	508795.30	6.6325	P	0.7
8	☐			6218.08	0.0833	P	0.6

$$y = 0.0067 * x + 0.0011$$

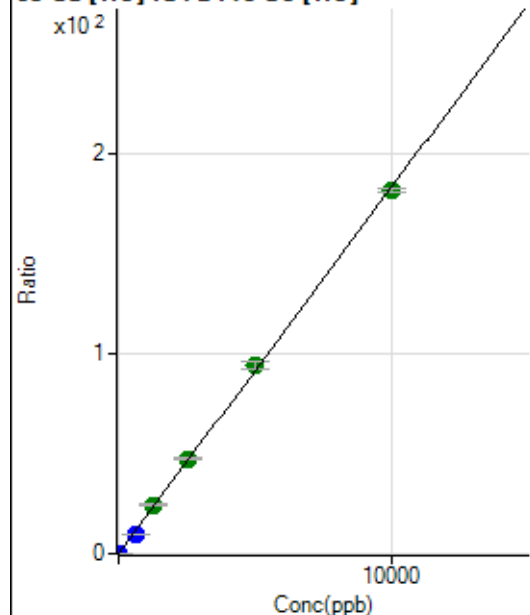
$$R = 0.9998$$

$$DL = 0.06241$$

$$BEC = 0.1699$$

Weight: <None>

Min Conc: 0

63 Cu [He] ISTD:45 Sc [He]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	183.34	0.0025	P	14.3
2	☐	2.000	2.194	3165.94	0.0426	P	3.6
3	☐	625.000	521.016	722032.85	9.5413	P	1.3
4	☐	1250.000	1337.102	1831613.58	24.4823	A	4.7
5	☐	2500.000	2596.994	3628412.73	47.5486	A	0.8
6	☐	5000.000	5141.649	7149442.19	94.1364	A	4.5
7	☐	10000.000	9900.538	13904661.88	181.2628	A	0.9
8	☐			7396.45	0.0991	P	3.4

$$y = 0.0183 * x + 0.0025$$

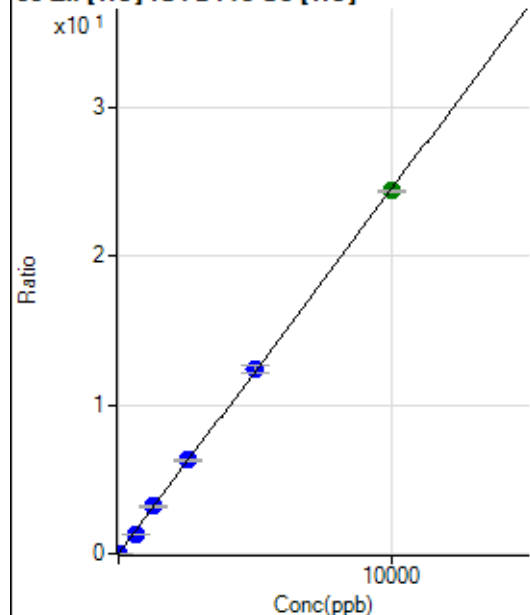
$$R = 0.9997$$

$$DL = 0.05777$$

$$BEC = 0.1349$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	183.34	0.0025	P	12.6
2	☐	2.000	1.802	511.13	0.0069	P	7.7
3	☐	625.000	508.474	94409.31	1.2477	P	1.8
4	☐	1250.000	1300.341	238362.17	3.1868	P	5.4
5	☐	2500.000	2564.442	479413.43	6.2825	P	0.8
6	☐	5000.000	5073.090	943681.24	12.4258	P	4.6
7	☐	10000.000	9948.335	1869005.44	24.3647	A	0.6
8	☐			6602.71	0.0884	P	0.9

$$y = 0.0024 * x + 0.0025$$

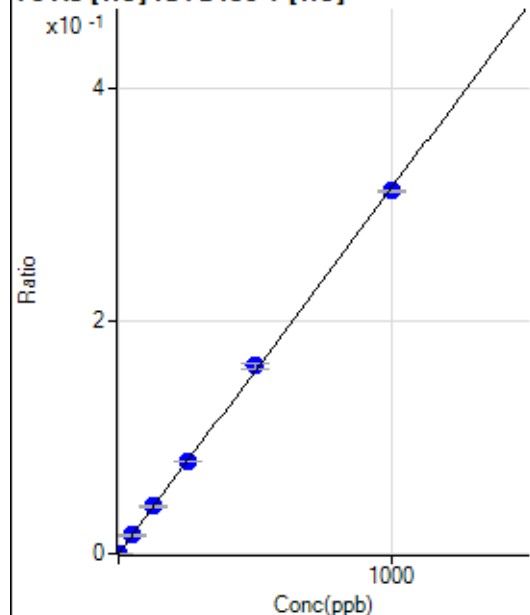
$$R = 0.9998$$

$$DL = 0.3821$$

$$BEC = 1.009$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	5.33	0.0000	P	28.2
2	☐	1.000	1.064	156.02	0.0003	P	4.5
3	☐	50.000	49.943	7220.58	0.0157	P	1.4
4	☐	125.000	129.178	18403.12	0.0406	P	4.4
5	☐	250.000	252.970	36733.46	0.0795	P	0.9
6	☐	500.000	512.941	74043.02	0.1613	P	2.8
7	☐	1000.000	992.268	145601.03	0.3119	P	0.6
8	☐			81.68	0.0002	P	2.4

$$y = 3.1435E-004 * x + 1.1755E-005$$

$$R = 0.9999$$

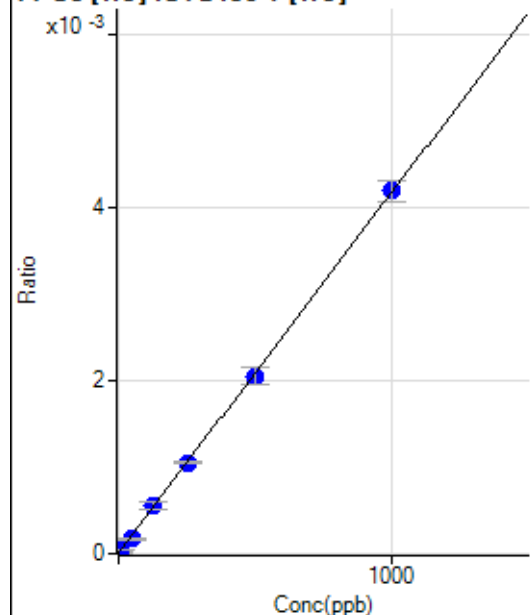
$$DL = 0.0316$$

$$BEC = 0.0374$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	4.44	0.0000	P	44.1
2	☐	5.000	9.506	22.22	0.0000	P	18.0
3	☐	50.000	38.314	77.78	0.0002	P	13.6
4	☐	125.000	128.980	247.78	0.0005	P	15.9
5	☐	250.000	250.922	486.68	0.0011	P	2.9
6	☐	500.000	489.543	940.04	0.0020	P	10.0
7	☐	1000.000	1005.062	1955.71	0.0042	P	6.0
8	☐			3.33	0.0000	P	100.4

$$y = 4.1601\text{E-}006 * x + 9.8178\text{E-}006$$

$$R = 0.9998$$

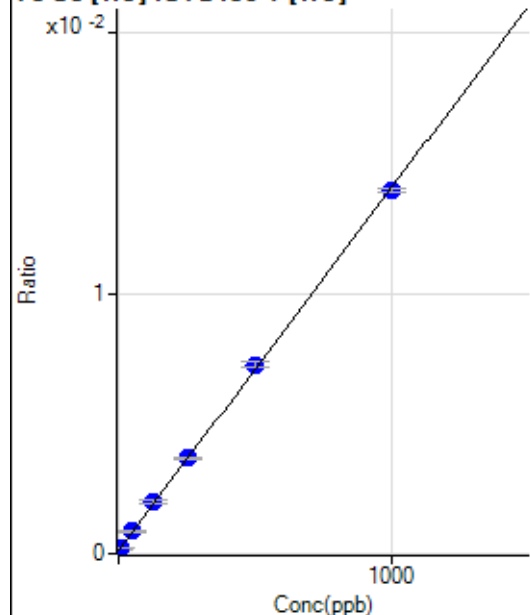
$$DL = 3.12$$

$$BEC = 2.36$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	57.01	0.0001	P	11.6
2	☐	5.000	5.848	93.34	0.0002	P	17.6
3	☐	50.000	52.664	395.05	0.0009	P	2.7
4	☐	125.000	134.886	907.79	0.0020	P	6.4
5	☐	250.000	254.359	1694.61	0.0037	P	2.6
6	☐	500.000	512.362	3335.73	0.0073	P	2.7
7	☐	1000.000	991.356	6505.16	0.0139	P	0.9
8	☐			66.01	0.0001	P	7.6

$$y = 1.3931\text{E-}005 * x + 1.2581\text{E-}004$$

$$R = 0.9998$$

$$DL = 3.147$$

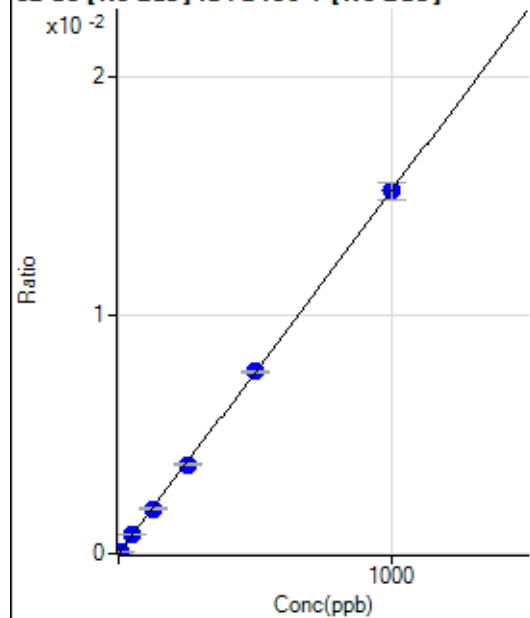
$$BEC = 9.031$$

Weight: <None>

Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			2582.90		P	3.1
2	☐			2569.56		P	4.8
3	☐			2482.78		P	5.0
4	☐			2659.66		P	11.0
5	☐			2646.31		P	7.7
6	☐			2639.63		P	9.0
7	☐			2716.40		P	3.3
8	☐			2839.88		P	9.8

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	-4.41	0.0000	P	-2409.
2	☐	5.000	4.043	209.68	0.0001	P	52.0
3	☐	50.000	51.595	2732.00	0.0008	P	1.5
4	☐	125.000	124.473	6774.67	0.0019	P	1.7
5	☐	250.000	246.298	13557.22	0.0037	P	2.1
6	☐	500.000	502.042	27993.98	0.0076	P	1.3
7	☐	1000.000	999.896	54204.73	0.0152	P	4.6
8	☐			16.42	0.0000	P	244.9

$$y = 1.5200\text{E-}005 * x - 1.0439\text{E-}006$$

$$R = 1.0000$$

$$DL = 4.963$$

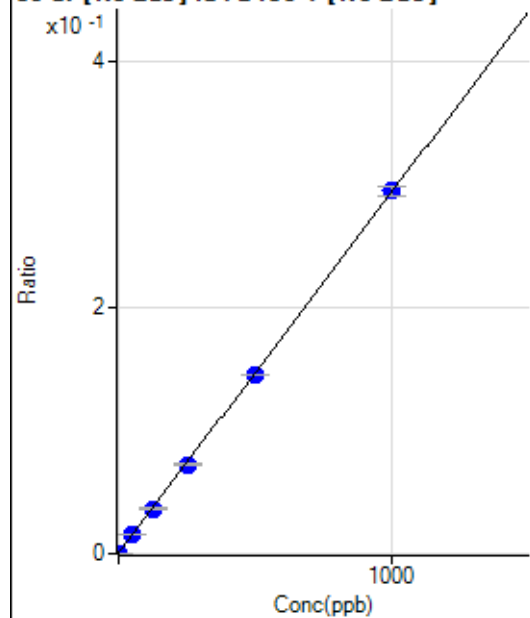
$$BEC = -0.06868$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			890.04		P	7.4
2	☐			927.82		P	8.1
3	☐			865.59		P	6.5
4	☐			827.81		P	3.4
5	☐			933.38		P	9.3
6	☐			902.26		P	6.3
7	☐			882.26		P	3.4
8	☐			903.37		P	7.2

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	1325.10	0.0004	P	7.5
2	☐	1.000	1.075	2422.50	0.0007	P	5.3
3	☐	50.000	50.644	53196.55	0.0153	P	3.1
4	☐	125.000	123.683	131511.79	0.0367	P	0.6
5	☐	250.000	245.377	262416.08	0.0725	P	1.1
6	☐	500.000	494.072	533803.05	0.1455	P	0.3
7	☐	1000.000	1004.252	1053646.47	0.2953	P	3.0
8	☐			3792.29	0.0010	P	5.3

$$y = 2.9370E-004 * x + 3.8396E-004$$

$$R = 1.0000$$

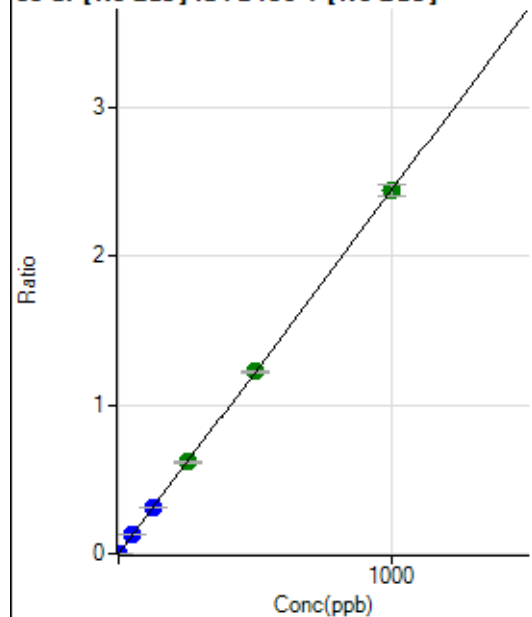
$$DL = 0.2926$$

$$BEC = 1.307$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	169.45	0.0000	P	18.9
2	☐	1.000	1.073	9250.52	0.0027	P	2.6
3	☐	50.000	51.736	440979.90	0.1265	P	1.8
4	☐	125.000	127.736	1118375.34	0.3122	P	0.8
5	☐	250.000	251.993	2230443.76	0.6158	A	1.3
6	☐	500.000	500.780	4489776.05	1.2237	A	0.7
7	☐	1000.000	998.683	8705839.69	2.4404	A	3.3
8	☐			20540.62	0.0055	P	2.3

$$y = 0.0024 * x + 4.9027E-005$$

$$R = 1.0000$$

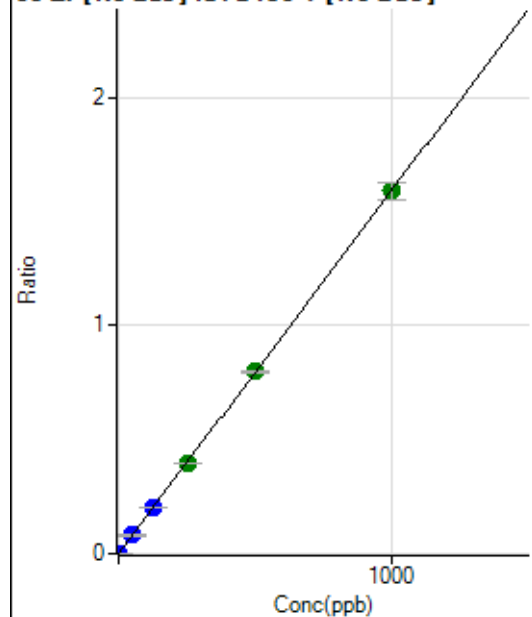
$$DL = 0.01139$$

$$BEC = 0.02006$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	216.68	0.0001	P	17.7
2	☐	1.000	0.981	5620.73	0.0016	P	3.3
3	☐	50.000	50.323	279151.62	0.0801	P	1.9
4	☐	125.000	125.813	716707.10	0.2001	P	0.2
5	☐	250.000	249.461	1436483.15	0.3966	A	1.4
6	☐	500.000	500.906	2921647.11	0.7963	A	0.8
7	☐	1000.000	999.564	5666770.53	1.5890	A	5.1
8	☐			1955.75	0.0005	P	3.9

$$y = 0.0016 * x + 6.2877E-005$$

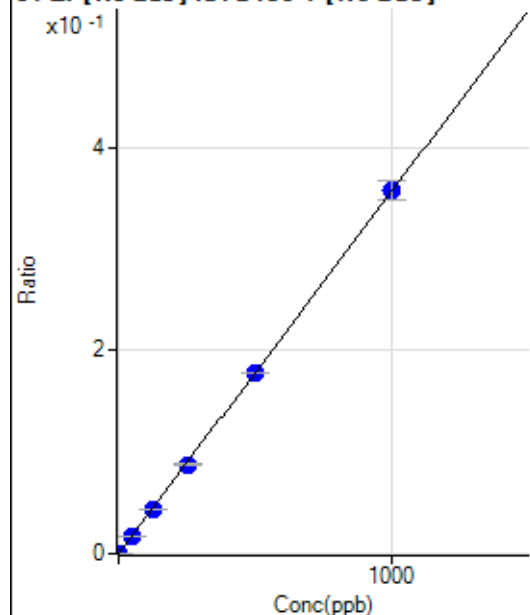
$$R = 1.0000$$

$$DL = 0.02102$$

$$BEC = 0.03955$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	22.22	0.0000	P	22.9
2	☐	1.000	1.013	1272.31	0.0004	P	1.9
3	☐	50.000	49.753	61824.10	0.0177	P	1.4
4	☐	125.000	123.685	157857.99	0.0441	P	0.7
5	☐	250.000	245.938	317321.71	0.0876	P	1.1
6	☐	500.000	498.391	651374.28	0.1775	P	0.7
7	☐	1000.000	1001.997	1272902.90	0.3569	P	5.3
8	☐			394.46	0.0001	P	14.8

$$y = 3.5621\text{E-}004 * x + 6.4563\text{E-}006$$

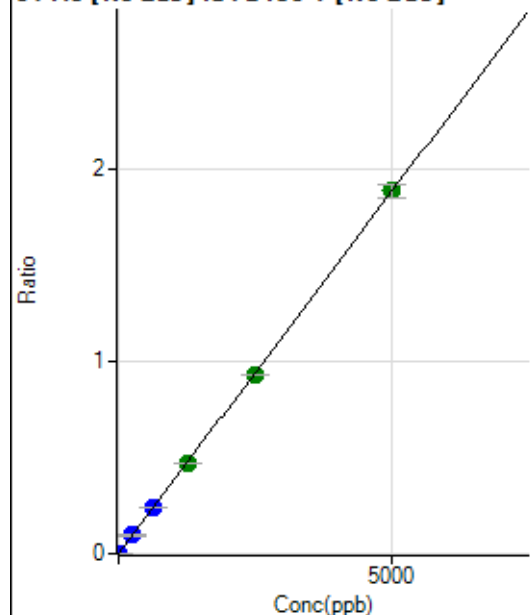
$$R = 1.0000$$

$$DL = 0.01245$$

$$BEC = 0.01813$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	80.56	0.0000	P	26.1
2	☐	10.000	5.633	7407.73	0.0021	P	1.6
3	☐	250.000	254.314	333135.04	0.0955	P	1.9
4	☐	625.000	629.553	847175.94	0.2365	P	1.0
5	☐	1250.000	1244.306	1692777.08	0.4674	A	1.2
6	☐	2500.000	2471.861	3406439.14	0.9284	A	0.3
7	☐	5000.000	5014.717	6719011.09	1.8835	A	3.6
8	☐			3836.75	0.0010	P	8.4

$$y = 3.7559\text{E-}004 * x + 2.3347\text{E-}005$$

$$R = 1.0000$$

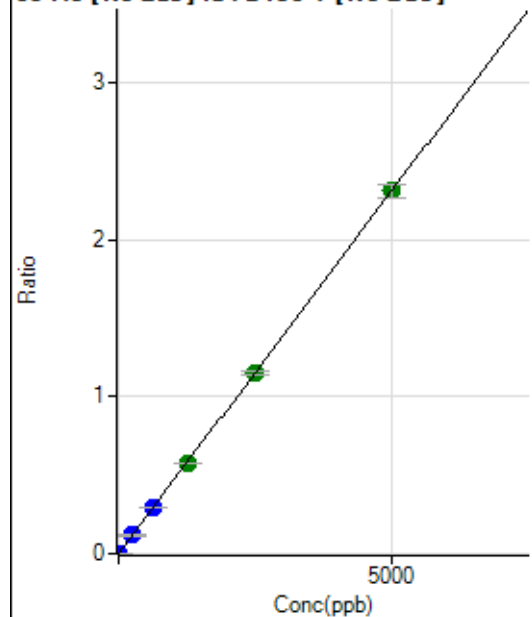
$$DL = 0.0487$$

$$BEC = 0.06216$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	52.78	0.0000	P	22.6
2	☐	10.000	5.411	8694.60	0.0025	P	3.7
3	☐	250.000	253.545	407791.71	0.1170	P	2.3
4	☐	625.000	629.943	1040930.19	0.2906	P	0.3
5	☐	1250.000	1241.579	2074211.16	0.5727	A	0.6
6	☐	2500.000	2494.156	4220855.22	1.1504	A	1.2
7	☐	5000.000	5004.241	8233958.43	2.3081	A	3.4
8	☐			5295.61	0.0014	P	5.5

$$y = 4.6123\text{E-}004 * x + 1.5267\text{E-}005$$

$$R = 1.0000$$

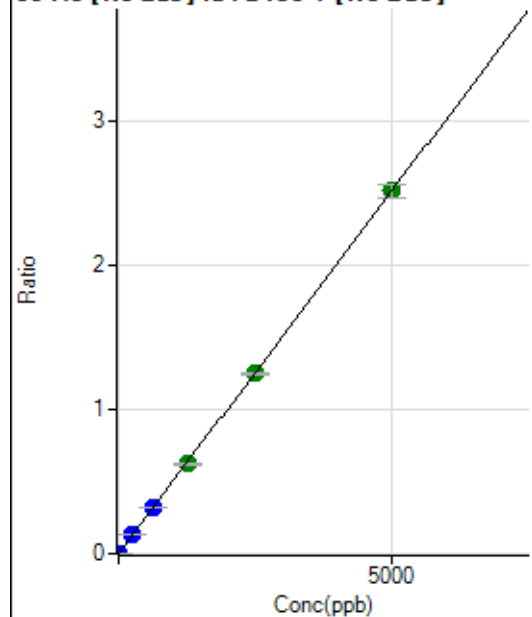
$$DL = 0.02246$$

$$BEC = 0.0331$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	83.34	0.0000	P	35.1
2	☐	10.000	5.516	9675.82	0.0028	P	0.6
3	☐	250.000	256.888	449895.53	0.1290	P	1.5
4	☐	625.000	634.461	1141404.42	0.3186	P	0.1
5	☐	1250.000	1240.761	2256614.22	0.6231	A	1.2
6	☐	2500.000	2487.913	4583695.68	1.2493	A	0.9
7	☐	5000.000	5006.835	8968128.93	2.5141	A	4.0
8	☐			6384.98	0.0017	P	3.3

$$y = 5.0213\text{E-}004 * x + 2.4098\text{E-}005$$

$$R = 1.0000$$

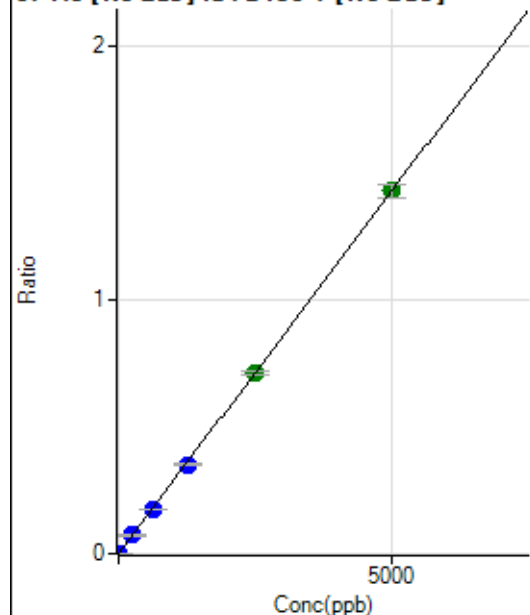
$$DL = 0.05054$$

$$BEC = 0.04799$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	8.33	0.0000	P	100.9
2	☐	10.000	5.503	5448.43	0.0016	P	2.6
3	☐	250.000	253.491	252330.91	0.0724	P	2.0
4	☐	625.000	619.874	633970.84	0.1770	P	0.3
5	☐	1250.000	1233.514	1275508.71	0.3521	P	0.9
6	☐	2500.000	2492.913	2611102.45	0.7117	A	1.7
7	☐	5000.000	5008.140	5100083.06	1.4297	A	3.7
8	☐			3328.27	0.0009	P	4.6

$$y = 2.8548\text{E-}004 * x + 2.4161\text{E-}006$$

$$R = 1.0000$$

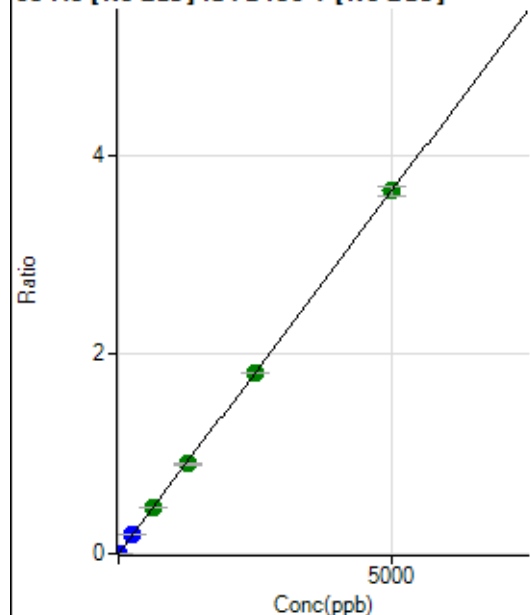
$$DL = 0.02562$$

$$BEC = 0.008463$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	22.22	0.0000	P	76.6
2	☐	10.000	5.475	13832.22	0.0040	P	3.3
3	☐	250.000	256.218	650770.80	0.1866	P	1.5
4	☐	625.000	637.145	1662570.12	0.4641	A	0.7
5	☐	1250.000	1238.370	3267083.32	0.9020	A	2.0
6	☐	2500.000	2494.689	6666785.26	1.8171	A	0.5
7	☐	5000.000	5003.743	13003171.12	3.6447	A	2.9
8	☐			8302.69	0.0022	P	2.7

$$y = 7.2838\text{E-}004 * x + 6.3945\text{E-}006$$

$$R = 1.0000$$

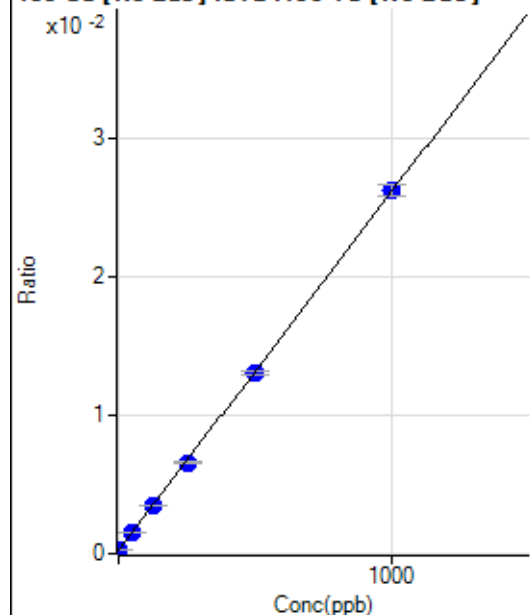
$$DL = 0.02018$$

$$BEC = 0.008779$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	680.59	0.0002	P	4.1
2	☐	1.000	1.210	777.82	0.0003	P	16.1
3	☐	50.000	50.986	4706.48	0.0015	P	5.5
4	☐	125.000	125.012	10648.77	0.0035	P	2.3
5	☐	250.000	244.511	20532.34	0.0066	P	2.7
6	☐	500.000	496.717	42120.57	0.0131	P	1.9
7	☐	1000.000	1002.963	82066.15	0.0262	P	3.2
8	☐			766.71	0.0002	P	11.2

$$y = 2.5863\text{E-}005 * x + 2.2874\text{E-}004$$

$$R = 1.0000$$

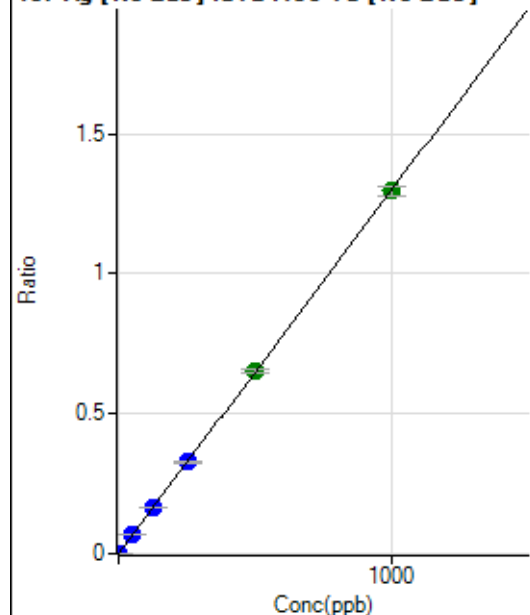
$$DL = 1.087$$

$$BEC = 8.844$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	33.33	0.0000	P	50.5
2	☐	1.000	1.742	6796.30	0.0023	P	3.1
3	☐	50.000	50.855	200877.12	0.0660	P	2.3
4	☐	125.000	128.263	512186.27	0.1665	P	0.7
5	☐	250.000	253.069	1029448.43	0.3285	P	2.1
6	☐	500.000	501.047	2095024.55	0.6504	A	2.2
7	☐	1000.000	998.258	4063890.89	1.2957	A	2.7
8	☐			1552.91	0.0005	P	9.3

$$y = 0.0013 * x + 1.1228\text{E-}005$$

$$R = 1.0000$$

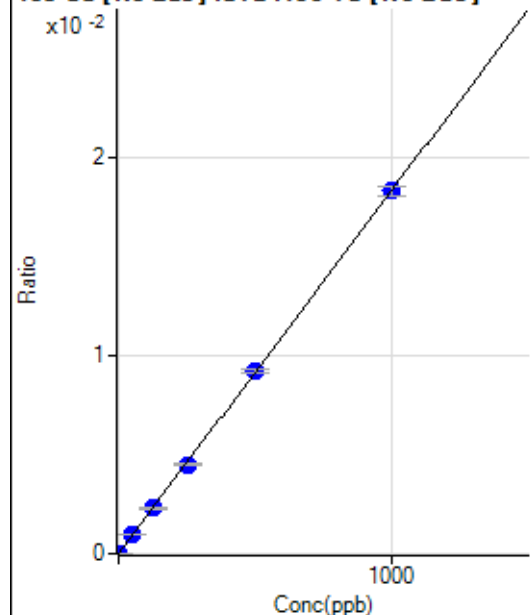
$$DL = 0.01312$$

$$BEC = 0.00865$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	9.72	0.0000	P	49.5
2	☐	1.000	0.864	56.94	0.0000	P	19.3
3	☐	50.000	51.498	2872.56	0.0009	P	4.9
4	☐	125.000	126.282	7107.48	0.0023	P	3.2
5	☐	250.000	245.520	14068.44	0.0045	P	3.0
6	☐	500.000	502.033	29563.71	0.0092	P	2.1
7	☐	1000.000	999.868	57311.34	0.0183	P	2.9
8	☐			29.17	0.0000	P	78.3

$$y = 1.8272\text{E-}005 * x + 3.2686\text{E-}006$$

$$R = 1.0000$$

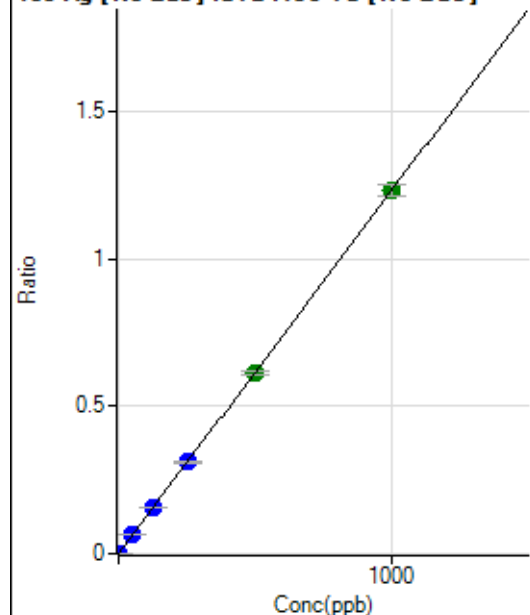
$$DL = 0.2656$$

$$BEC = 0.1789$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	36.11	0.0000	P	52.7
2	☐	1.000	1.719	6359.99	0.0021	P	0.8
3	☐	50.000	51.133	191364.11	0.0629	P	1.9
4	☐	125.000	128.478	486025.70	0.1580	P	1.9
5	☐	250.000	252.418	972934.94	0.3104	P	1.5
6	☐	500.000	498.708	1975633.81	0.6133	A	1.7
7	☐	1000.000	999.549	3855079.77	1.2292	A	3.2
8	☐			1402.89	0.0005	P	4.6

$$y = 0.0012 * x + 1.2115\text{E-}005$$

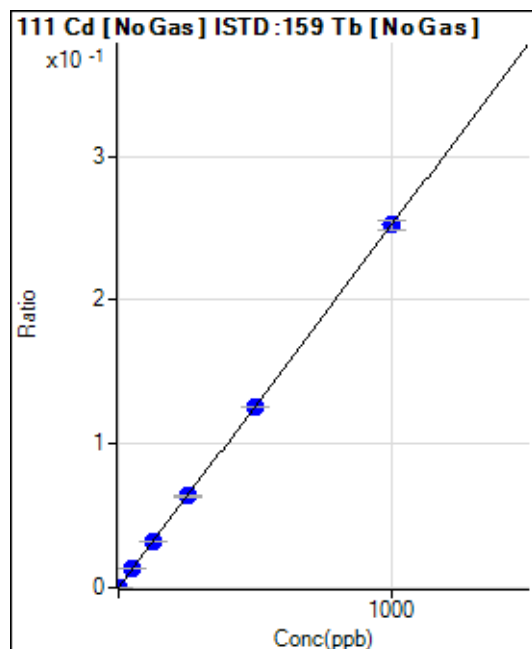
$$R = 1.0000$$

$$DL = 0.01557$$

$$BEC = 0.009852$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	476.55	0.0002	P	3.9
2	☐	1.000	1.040	1262.98	0.0004	P	7.7
3	☐	50.000	50.771	39414.28	0.0130	P	2.6
4	☐	125.000	127.848	99597.28	0.0324	P	0.8
5	☐	250.000	251.579	199171.04	0.0636	P	2.3
6	☐	500.000	497.367	404309.93	0.1255	P	0.3
7	☐	1000.000	1000.527	791206.86	0.2523	P	2.9
8	☐			802.40	0.0003	P	10.3

$$y = 2.5199\text{E-}004 * x + 1.6016\text{E-}004$$

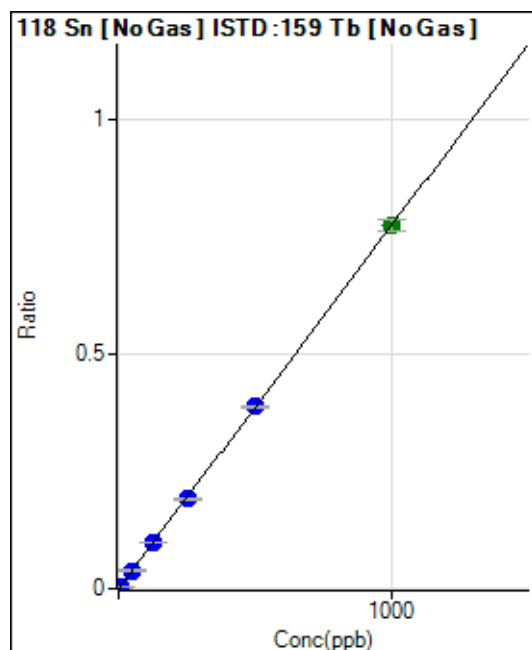
$$R = 1.0000$$

$$DL = 0.07441$$

$$BEC = 0.6356$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	211.12	0.0001	P	11.7
2	☐	5.000	5.564	13073.25	0.0044	P	2.1
3	☐	50.000	50.198	118264.12	0.0389	P	1.1
4	☐	125.000	128.236	305050.73	0.0992	P	2.1
5	☐	250.000	248.405	601783.19	0.1920	P	2.4
6	☐	500.000	501.281	1248177.51	0.3874	P	1.1
7	☐	1000.000	999.341	2422062.84	0.7723	A	3.2
8	☐			1877.96	0.0006	P	5.7

$$y = 7.7277\text{E-}004 * x + 7.0933\text{E-}005$$

$$R = 1.0000$$

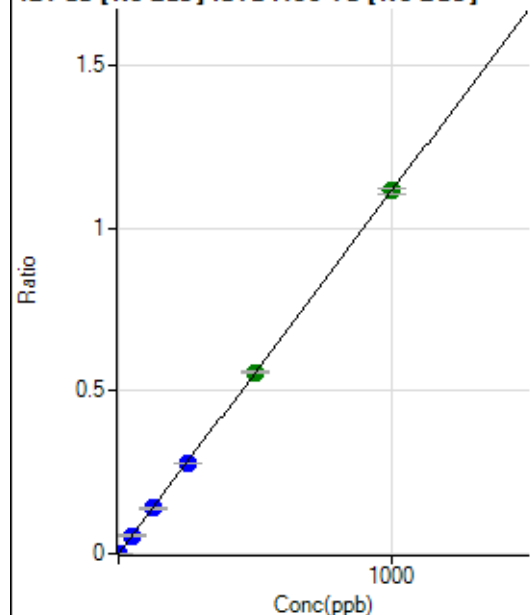
$$DL = 0.0321$$

$$BEC = 0.09179$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	30.56	0.0000	P	31.5
2	☐	2.000	2.025	6779.62	0.0023	P	4.9
3	☐	50.000	50.357	170745.46	0.0561	P	2.3
4	☐	125.000	125.678	430778.21	0.1400	P	2.3
5	☐	250.000	249.287	870691.57	0.2778	P	0.8
6	☐	500.000	499.022	1791255.62	0.5560	A	1.0
7	☐	1000.000	1000.565	3496832.93	1.1148	A	1.9
8	☐			2478.08	0.0008	P	5.0

$$y = 0.0011 * x + 1.0270E-005$$

$$R = 1.0000$$

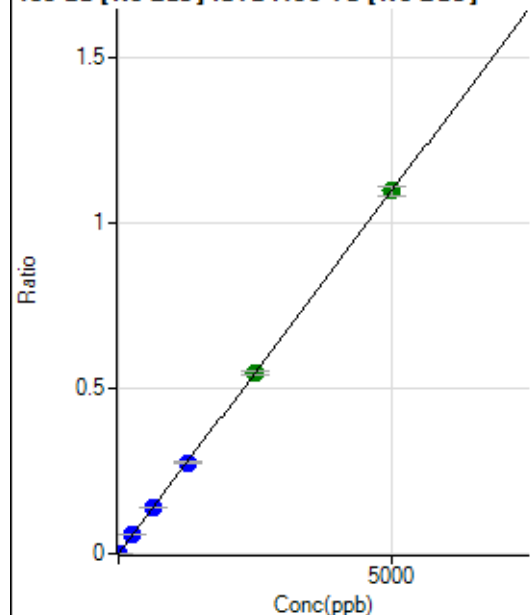
$$DL = 0.008697$$

$$BEC = 0.009217$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	22.22	0.0000	P	22.1
2	☐	10.000	10.881	7146.54	0.0024	P	1.4
3	☐	250.000	255.215	169996.54	0.0559	P	2.4
4	☐	625.000	638.201	429758.38	0.1397	P	0.7
5	☐	1250.000	1253.973	860385.54	0.2745	P	1.5
6	☐	2500.000	2489.189	1755253.08	0.5449	A	1.7
7	☐	5000.000	5002.500	3434481.54	1.0950	A	2.4
8	☐			6871.40	0.0022	P	4.0

$$y = 2.1889E-004 * x + 7.4754E-006$$

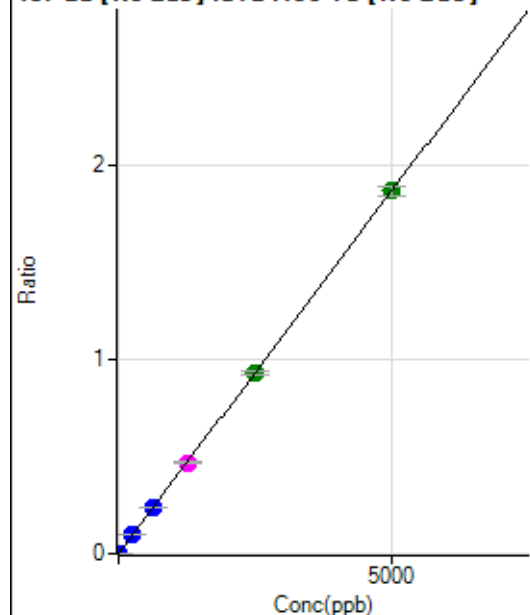
$$R = 1.0000$$

$$DL = 0.02264$$

$$BEC = 0.03415$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	52.78	0.0000	P	77.8
2	☐	10.000	10.926	12272.56	0.0041	P	2.6
3	☐	250.000	253.786	288817.42	0.0949	P	1.4
4	☐	625.000	644.577	741486.25	0.2410	P	0.7
5	☐	1250.000	1257.816	1473984.73	0.4703	M	2.1
6	☐	2500.000	2481.581	2989177.52	0.9279	A	2.1
7	☐	5000.000	5004.617	5869205.82	1.8713	A	2.5
8	☐			12019.57	0.0039	P	4.6

$$y = 3.7392\text{E-}004 * x + 1.7741\text{E-}005$$

$$R = 1.0000$$

$$DL = 0.1108$$

$$BEC = 0.04745$$

Weight: <None>

Min Conc: 0

150 Nd [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			15.56		P	65.5
2	☐			4.45		P	86.6
3	☐			8.89		P	114.5
4	☐			6.67		P	100.0
5	☐			37.78		P	40.8
6	☐			37.78		P	50.9
7	☐			142.23		P	9.8
8	☐			26.67		P	50.0

150 Nd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			1.11		P	173.2
2	☐			0.00		P	
3	☐			1.11		P	173.2
4	☐			1.11		P	173.2
5	☐			6.67		P	50.0
6	☐			6.67		P	50.0
7	☐			14.44		P	81.1
8	☐			8.89		P	57.3

156 Dy [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			13.89		P	91.6
2	☐			13.89		P	69.3
3	☐			2.78		P	173.2
4	☐			11.11		P	86.6
5	☐			22.22		P	43.3
6	☐			52.78		P	39.7
7	☐			44.44		P	43.3
8	☐			138.89		P	29.6

156 Dy [He] No available calibration points

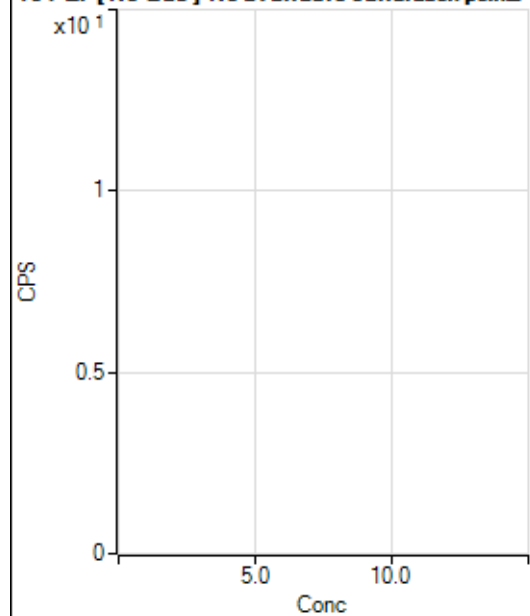
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			4.45		P	86.6
2	☐			3.33		P	100.1
3	☐			14.44		P	35.3
4	☐			7.78		P	24.7
5	☐			12.22		P	41.7
6	☐			23.33		P	28.6
7	☐			35.56		P	32.9
8	☐			103.33		P	3.2

160 Gd [No Gas] Noavailable calibration poin_

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			19.44		P	65.5
2	☐			19.44		P	65.5
3	☐			19.44		P	65.5
4	☐			30.56		P	83.3
5	☐			27.78		P	34.6
6	☐			44.45		P	84.6
7	☐			69.45		P	18.3
8	☐			230.56		P	9.1

160 Gd [He] No available calibration points

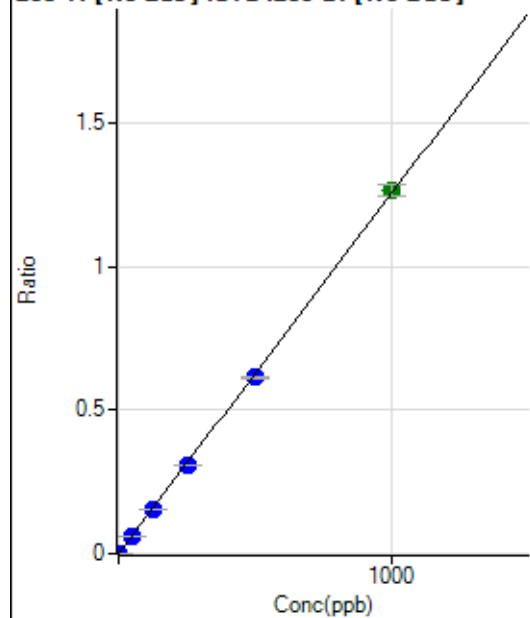
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			6.66		P	86.6
2	☐			11.11		P	17.3
3	☐			14.44		P	66.6
4	☐			11.11		P	96.4
5	☐			10.00		P	33.3
6	☐			30.00		P	29.4
7	☐			41.11		P	60.9
8	☐			125.56		P	13.4

164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			13.89		P	91.6
2	☐			25.00		P	66.7
3	☐			36.11		P	87.4
4	☐			30.56		P	56.8
5	☐			13.89		P	91.6
6	☐			27.78		P	91.7
7	☐			38.89		P	65.5
8	☐			36.11		P	35.3

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			12.22		P	31.5
2	☐			8.89		P	94.4
3	☐			11.11		P	62.5
4	☐			8.89		P	21.6
5	☐			12.22		P	103.3
6	☐			5.56		P	34.7
7	☐			13.33		P	50.0
8	☐			21.11		P	48.2

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	8.33	0.0000	P	99.7
2	☐	1.000	1.013	1958.54	0.0013	P	2.6
3	☐	50.000	49.266	96309.57	0.0619	P	1.5
4	☐	125.000	122.342	245387.78	0.1536	P	0.5
5	☐	250.000	245.707	494463.86	0.3085	P	0.6
6	☐	500.000	489.042	1010978.93	0.6139	P	1.9
7	☐	1000.000	1006.921	2003211.09	1.2641	A	3.2
8	☐			1336.22	0.0009	P	11.2

$$y = 0.0013 * x + 5.4317E-006$$

$$R = 0.9999$$

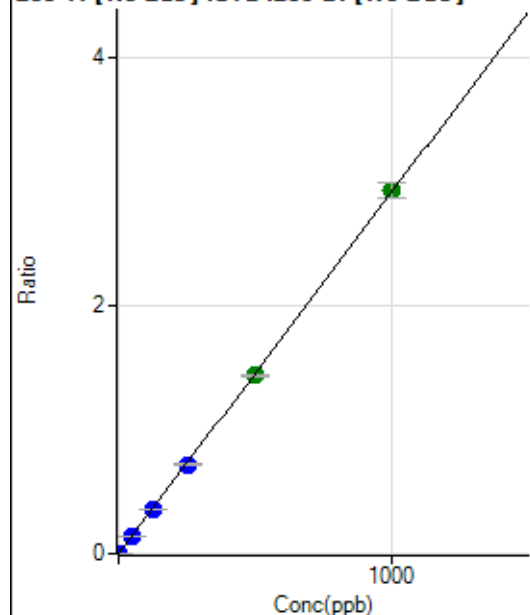
$$DL = 0.01295$$

$$BEC = 0.004327$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	25.00	0.0000	P	33.7
2	☐	1.000	1.027	4614.83	0.0030	P	7.9
3	☐	50.000	49.447	224520.39	0.1442	P	0.7
4	☐	125.000	123.855	576994.90	0.3611	P	0.1
5	☐	250.000	247.332	1156045.51	0.7212	P	0.5
6	☐	500.000	493.206	2368329.18	1.4381	A	0.5
7	☐	1000.000	1004.235	4639283.96	2.9281	A	4.3
8	☐			3072.67	0.0020	P	2.1

$$y = 0.0029 * x + 1.6313E-005$$

$$R = 1.0000$$

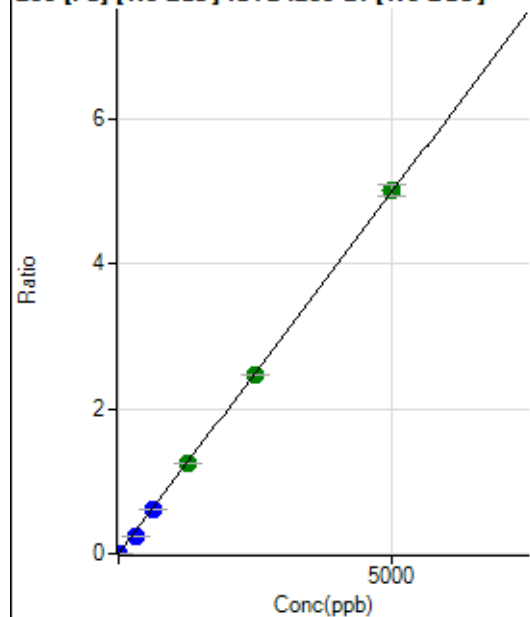
$$DL = 0.005663$$

$$BEC = 0.005595$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	144.45	0.0001	P	18.0
2	☐	1.000	1.050	1748.30	0.0011	P	3.6
3	☐	312.500	244.185	379049.00	0.2434	P	1.5
4	☐	625.000	611.738	974116.74	0.6097	P	0.8
5	☐	1250.000	1244.818	1988700.25	1.2406	A	0.4
6	☐	2500.000	2477.390	4066247.43	2.4688	A	0.3
7	☐	5000.000	5018.528	7925634.03	5.0011	A	3.0
8	☐			8601.14	0.0057	P	1.4

$$y = 9.9651E-004 * x + 9.4207E-005$$

$$R = 0.9999$$

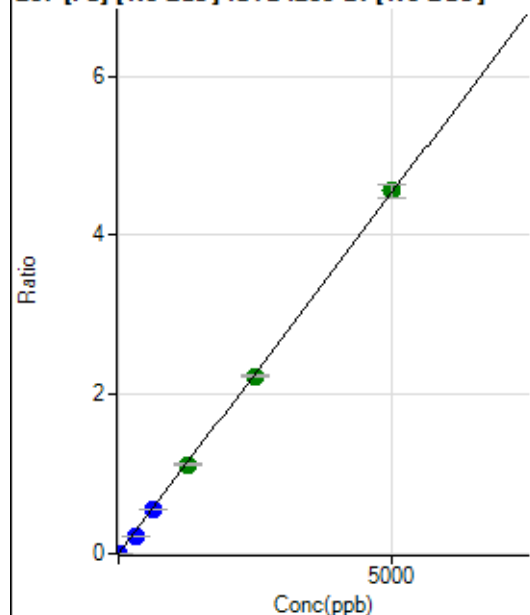
$$DL = 0.05097$$

$$BEC = 0.09454$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	111.11	0.0001	P	32.6
2	☐	1.000	0.907	1370.47	0.0009	P	6.3
3	☐	312.500	242.081	341642.42	0.2194	P	1.3
4	☐	625.000	602.084	871717.88	0.5456	P	0.6
5	☐	1250.000	1237.781	1798091.46	1.1216	A	0.6
6	☐	2500.000	2461.994	3673693.69	2.2308	A	1.1
7	☐	5000.000	5029.324	7221030.48	4.5570	A	3.7
8	☐			7439.29	0.0049	P	3.7

$$y = 9.0608\text{E-}004 * x + 7.2424\text{E-}005$$

$$R = 0.9999$$

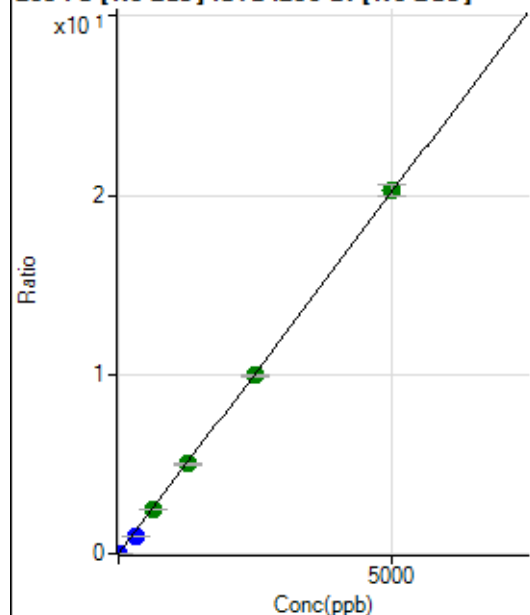
$$DL = 0.07821$$

$$BEC = 0.07993$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	579.64	0.0004	P	10.5
2	☐	1.000	0.981	6639.68	0.0043	P	3.4
3	☐	312.500	244.114	1532852.96	0.9844	P	0.6
4	☐	625.000	619.636	3991356.72	2.4981	A	1.2
5	☐	1250.000	1239.256	8009149.73	4.9959	A	0.5
6	☐	2500.000	2471.295	16406437.55	9.9622	A	0.9
7	☐	5000.000	5021.983	32080909.45	20.2441	A	3.3
8	☐			34195.93	0.0227	P	0.1

$$y = 0.0040 * x + 3.7784\text{E-}004$$

$$R = 0.9999$$

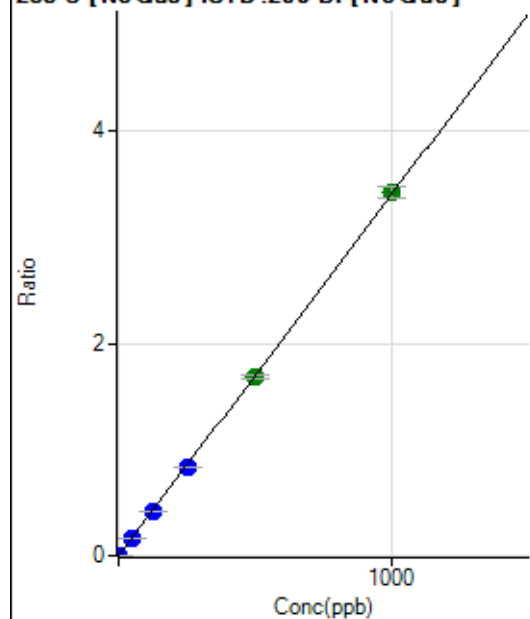
$$DL = 0.02948$$

$$BEC = 0.09373$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	41.67	0.0000	P	19.6
2	☐	1.000	1.000	5254.01	0.0034	P	2.1
3	☐	50.000	48.113	254887.58	0.1637	P	0.4
4	☐	125.000	121.144	658388.79	0.4121	P	0.2
5	☐	250.000	242.899	1324562.43	0.8262	P	0.4
6	☐	500.000	494.640	2770632.16	1.6825	A	1.9
7	☐	1000.000	1005.032	5417578.07	3.4186	A	3.1
8	☐			1150.08	0.0008	P	5.4

$$y = 0.0034 * x + 2.7148E-005$$

$$R = 0.9999$$

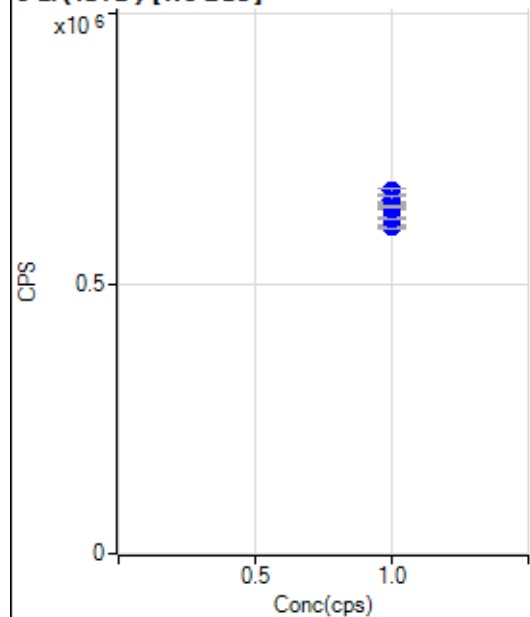
$$DL = 0.004696$$

$$BEC = 0.007981$$

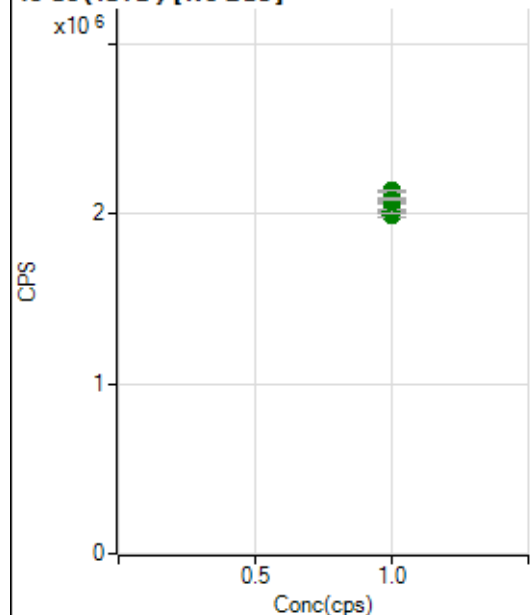
Weight: <None>

Min Conc: 0

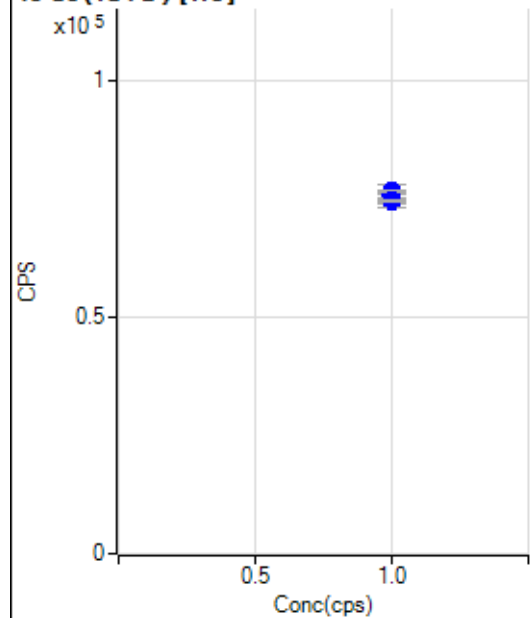
6 Li (ISTD) [No Gas]



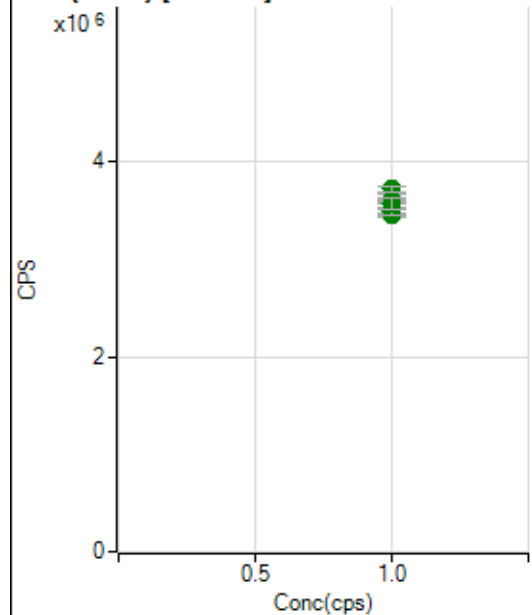
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		608214.64		P	0.4
2	☐	1.000		604498.10		P	0.7
3	☐	1.000		620629.83		P	0.9
4	☐	1.000		636346.46		P	0.3
5	☐	1.000		648189.82		P	1.3
6	☐	1.000		671431.15		P	1.5
7	☐	1.000		655372.57		P	2.2
8	☐	1.000		642061.25		P	0.8

45 Sc (ISTD) [No Gas]

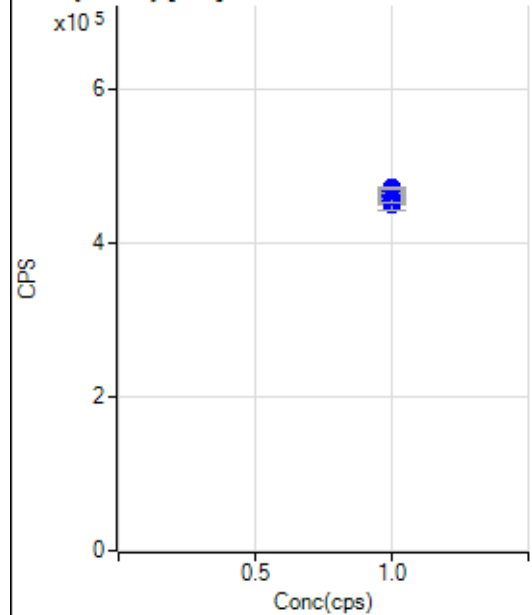
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		1991857.54		A	1.2
2	☐	1.000		1994336.01		A	1.5
3	☐	1.000		2011343.46		A	1.1
4	☐	1.000		2081314.06		A	0.3
5	☐	1.000		2084266.36		A	0.7
6	☐	1.000		2133876.32		A	0.7
7	☐	1.000		2065586.84		A	0.5
8	☐	1.000		2083391.58		A	0.5

45 Sc (ISTD) [He]

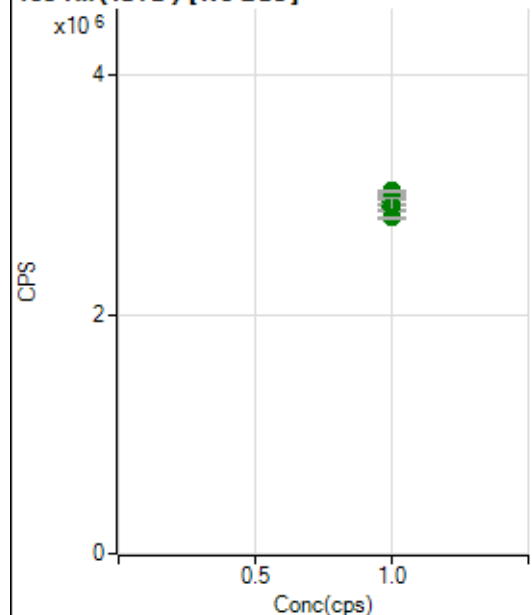
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		74224.82		P	0.2
2	☐	1.000		74257.28		P	0.1
3	☐	1.000		75683.45		P	1.6
4	☐	1.000		74925.77		P	4.9
5	☐	1.000		76312.21		P	0.7
6	☐	1.000		76064.96		P	5.2
7	☐	1.000		76711.15		P	0.8
8	☐	1.000		74673.86		P	0.5

89 Y (ISTD) [No Gas]

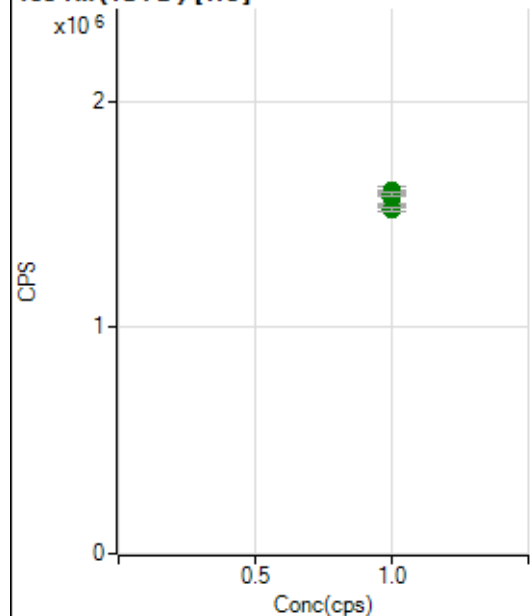
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		3449980.99		A	1.5
2	☐	1.000		3463244.56		A	0.7
3	☐	1.000		3487644.50		A	2.0
4	☐	1.000		3582463.80		A	0.4
5	☐	1.000		3622085.95		A	0.8
6	☐	1.000		3668963.87		A	0.4
7	☐	1.000		3569705.75		A	2.9
8	☐	1.000		3721833.73		A	1.3

89 Y (ISTD) [He]

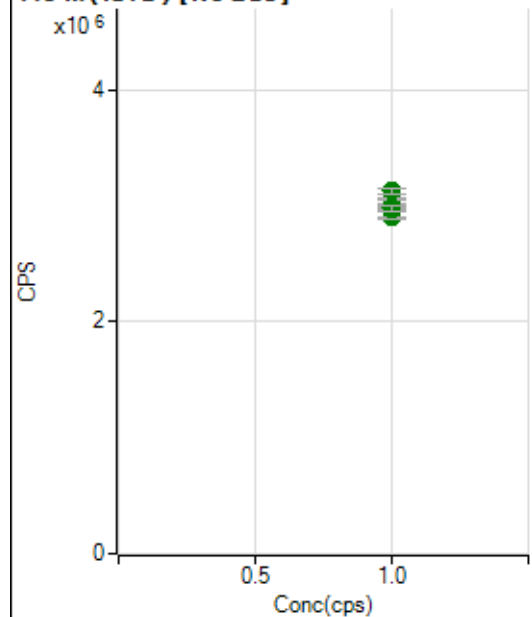
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		453363.31		P	0.7
2	☐	1.000		450527.65		P	0.7
3	☐	1.000		459584.54		P	0.8
4	☐	1.000		453701.24		P	4.8
5	☐	1.000		461900.17		P	1.2
6	☐	1.000		459442.81		P	3.3
7	☐	1.000		466790.34		P	1.0
8	☐	1.000		471156.60		P	0.9

103 Rh (ISTD) [No Gas]

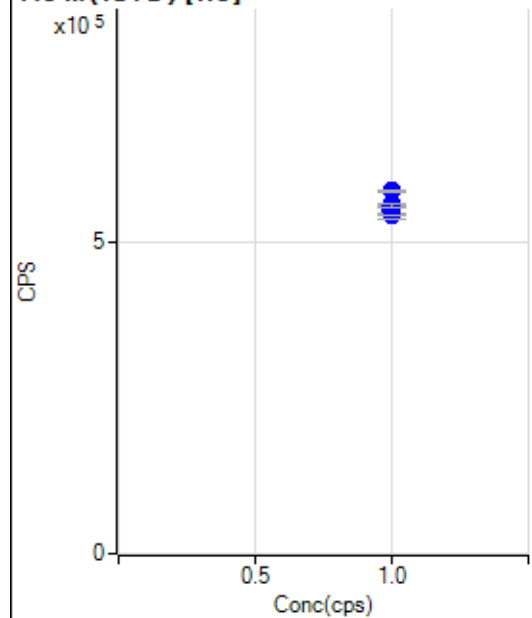
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		2891941.28		A	1.3
2	☐	1.000		2904559.33		A	1.7
3	☐	1.000		2943850.56		A	0.6
4	☐	1.000		3002460.87		A	0.7
5	☐	1.000		2983865.82		A	2.1
6	☐	1.000		3035116.45		A	0.5
7	☐	1.000		2918293.27		A	4.2
8	☐	1.000		2812683.74		A	0.6

103 Rh (ISTD) [He]

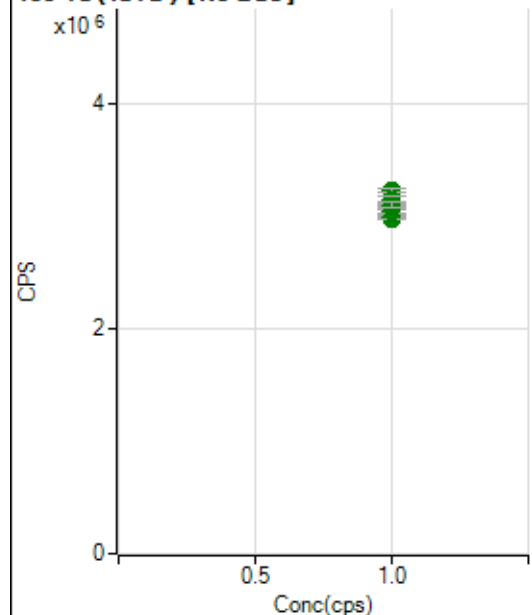
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		1600301.78		A	1.0
2	☐	1.000		1589628.78		A	1.5
3	☐	1.000		1602066.92		A	0.1
4	☐	1.000		1580325.29		A	5.6
5	☐	1.000		1602472.60		A	0.6
6	☐	1.000		1573902.79		A	3.9
7	☐	1.000		1586476.75		A	1.3
8	☐	1.000		1520166.54		A	1.6

115 In (ISTD) [No Gas]

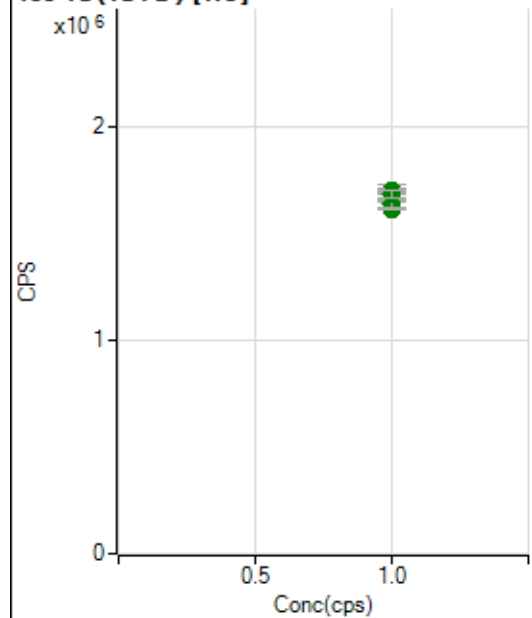
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		2902740.52		A	0.4
2	☐	1.000		2895659.50		A	1.0
3	☐	1.000		2962776.69		A	0.9
4	☐	1.000		2997435.31		A	1.0
5	☐	1.000		2982366.51		A	0.7
6	☐	1.000		3060904.62		A	0.7
7	☐	1.000		2980545.34		A	1.7
8	☐	1.000		3129962.46		A	1.2

115 In (ISTD) [He]

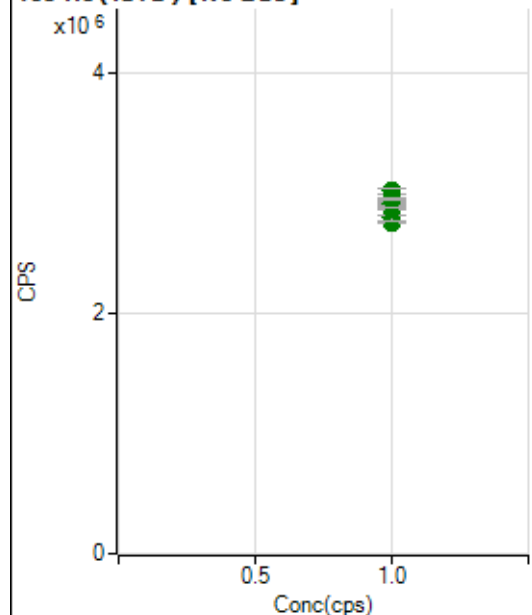
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		551275.46		P	1.6
2	☐	1.000		543180.10		P	0.4
3	☐	1.000		556958.60		P	0.6
4	☐	1.000		549821.04		P	4.5
5	☐	1.000		560689.36		P	0.4
6	☐	1.000		553194.32		P	3.4
7	☐	1.000		557784.35		P	1.0
8	☐	1.000		581988.17		P	0.5

159 Tb (ISTD) [No Gas]

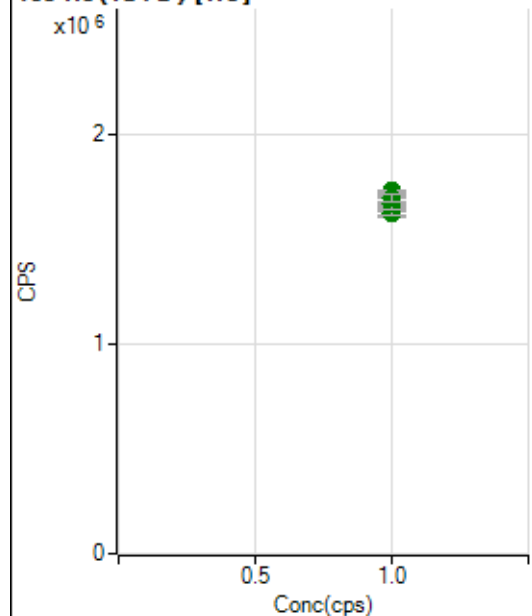
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		2975277.25		A	0.7
2	☐	1.000		2991250.58		A	0.9
3	☐	1.000		3043437.11		A	1.7
4	☐	1.000		3076325.41		A	0.7
5	☐	1.000		3135033.84		A	2.7
6	☐	1.000		3221800.12		A	1.0
7	☐	1.000		3137504.23		A	2.2
8	☐	1.000		3094984.23		A	1.8

159 Tb (ISTD) [He]

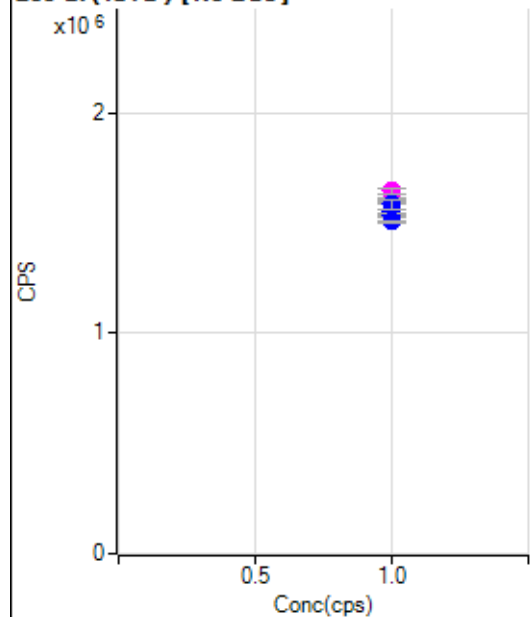
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		1636295.62		A	1.7
2	☐	1.000		1613338.66		A	0.6
3	☐	1.000		1664071.17		A	1.7
4	☐	1.000		1653201.54		A	4.3
5	☐	1.000		1690724.54		A	0.4
6	☐	1.000		1692280.11		A	4.2
7	☐	1.000		1697408.69		A	1.0
8	☐	1.000		1682661.91		A	2.2

165 Ho (ISTD) [No Gas]

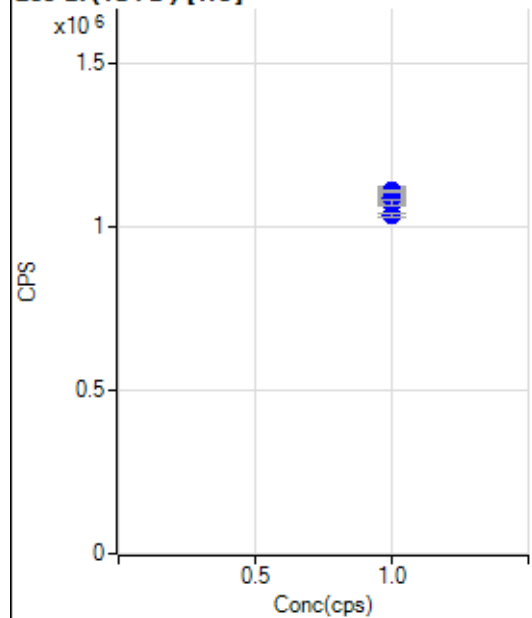
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		2750867.62		A	0.7
2	☐	1.000		2792208.31		A	1.9
3	☐	1.000		2863904.51		A	0.5
4	☐	1.000		2929601.41		A	1.2
5	☐	1.000		2907937.98		A	1.0
6	☐	1.000		3015068.25		A	1.6
7	☐	1.000		2935780.25		A	3.8
8	☐	1.000		2950158.86		A	0.8

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		1625344.63		A	2.4
2	☐	1.000		1622890.53		A	1.0
3	☐	1.000		1661141.64		A	0.3
4	☐	1.000		1642179.99		A	3.8
5	☐	1.000		1702031.96		A	0.9
6	☐	1.000		1668993.97		A	3.9
7	☐	1.000		1728418.17		A	0.9
8	☐	1.000		1694194.73		A	2.3

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		1533925.88		P	0.5
2	☐	1.000		1532896.92		P	1.1
3	☐	1.000		1557177.64		P	1.0
4	☐	1.000		1597684.23		M	0.3
5	☐	1.000		1603092.58		M	1.4
6	☐	1.000		1646975.53		M	1.6
7	☐	1.000		1585677.53		P	2.8
8	☐	1.000		1507942.72		P	0.7

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		1076263.39		P	1.3
2	☐	1.000		1072624.40		P	0.6
3	☐	1.000		1091884.62		P	0.5
4	☐	1.000		1085866.36		P	4.2
5	☐	1.000		1109065.97		P	1.2
6	☐	1.000		1102510.81		P	3.7
7	☐	1.000		1108630.68		P	0.3
8	☐	1.000		1035983.73		P	1.3

US EPA Tune Check Report

Operator Name ICPMS
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\P8021420 TEST.b
Acq. Date-Time 2020-02-14 15:33:42
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		2682	26824.71			1.404	5.000
24		40680	406801.20			1.646	5.000
25		5658	56576.90			1.997	5.000
26		6712	67124.23			1.437	5.000
59		30880	308797.05			1.630	5.000
113		3270	32701.31			1.133	5.000
115		41180	411802.36			1.327	5.000
206		6229	62286.99			2.292	5.000
207		5630	56298.82			2.348	5.000
208		13298	132976.31			2.190	5.000
220		1	7.70			26.216	

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

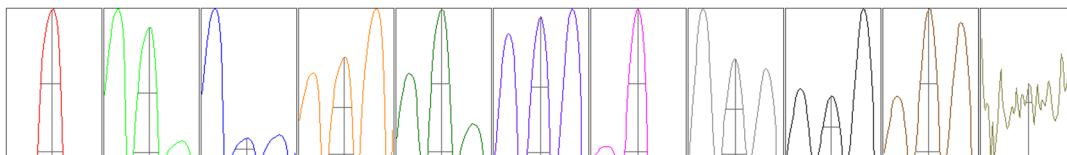
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	2674	2623	2689	2706	2720
24	40522	39620	40891	40966	41401
25	5592	5501	5679	5731	5786
26	6701	6566	6701	6776	6819
59	30554	30154	31181	31183	31325
113	3281	3216	3319	3273	3261
115	41734	40509	41753	40903	41002
206	6079	6080	6376	6259	6349
207	5515	5469	5761	5662	5742
208	13048	12930	13572	13407	13531

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	4496.20	8.95	8.90 - 9.10	
24	71726.95	23.95	23.90 - 24.10	
25	9581.84	24.95	24.90 - 25.10	
26	11407.07	25.95	25.90 - 26.10	
59	55858.78	58.95	58.90 - 59.10	
113	6467.03	113.00	112.90 - 113.10	
115	80626.30	115.00	114.90 - 115.10	
206	11968.81	206.00	205.90 - 206.10	
207	10822.34	206.95	206.90 - 207.10	
208	25781.67	207.95	207.90 - 208.10	
220	1.00	220.05	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.63	0.788	0.900	
24	0.61	0.791	0.900	
25	0.62	0.784	0.900	
26	0.61	0.789	0.900	
59	0.58	0.781	0.900	
113	0.53	0.728	0.900	
115	0.54	0.724	0.900	
206	0.54	0.781	0.900	
207	0.53	0.774	0.900	
208	0.53	0.771	0.900	
220	0.21			

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode HMI Nebulizer Gas 0.50 L/min Dilution Gas 0.45 L/min

US EPA Tune Check Report

RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.80 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	10.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	-6.0 V	Omega Lens	11.8 V	Deflect	14.8 V
Extract 2	-250.0 V	Cell Entrance	-30 V	Plate Bias	-50 V
Omega Bias	-120 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	4.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	---	OctP RF	170 V		

QP Parameters

Mass Gain	123	Axis Gain	0.9993	QP Bias	-4.0 V
Mass Offset	123	Axis Offset	-0.05		

Hardware Settings

Torch

Torch H	0.4 mm	Torch V	0.1 mm
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EM

Discriminator	3.9 mV	Analog HV	2168 V	Pulse HV	1119 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		8013	80133.54			0.600	
89		6779	67793.82			1.056	
205		6700	67000.11			1.104	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	8092	7982	7999	7972	8022
89	6858	6784	6697	6717	6840
205	6774	6777	6692	6639	6618

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	HMI	Nebulizer Gas	0.50 L/min	Dilution Gas	0.45 L/min
RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.80 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	10.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	-6.0 V	Omega Lens	11.8 V	Deflect	4.8 V
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US EPA Tune Check Report

Extract 2	-250.0 V	Cell Entrance	-50 V	Plate Bias	-60 V
Omega Bias	-120 V	Cell Exit	-70 V		
Cell Parameters					
Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	4.5 mL/min	OctP Bias	-18.0 V		
H2 Flow	---	OctP RF	200 V		
QP Parameters					
Mass Gain	123	Axis Gain	0.9993	QP Bias	-13.0 V
Mass Offset	123	Axis Offset	-0.05		
Hardware Settings					
Torch					
Torch H	0.4 mm	Torch V	0.1 mm		
EM					
Discriminator	3.9 mV	Analog HV	2168 V	Pulse HV	1119 V