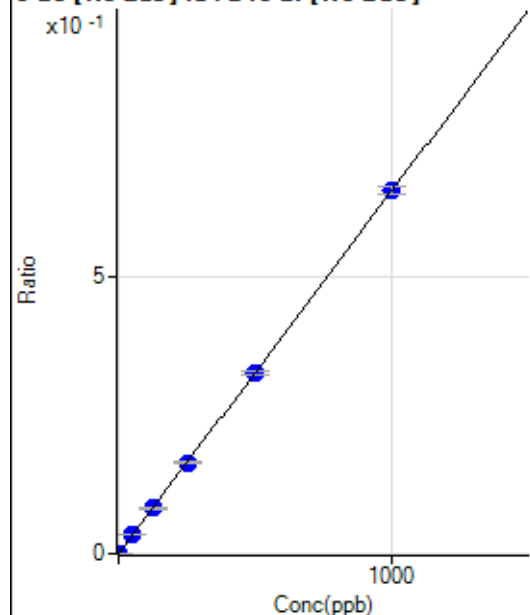


Batch Folder: D:\Agilent\ICPMH\1\DATA\P8111120-MS.b\
Analysis File: P8111120-MS.batch.bin
DA Date-Time: 2020-11-12 14:11:39
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	003CALB.d	S00	2020-11-11 13:13:20
2	004CALS.d	S02	2020-11-11 13:16:32
3	005CALS.d	S03	2020-11-11 13:19:41
4	006CALS.d	S04	2020-11-11 13:22:51
5	007CALS.d	S05	2020-11-11 13:25:54
6	008CALS.d	S06	2020-11-11 13:28:55
7	009CALS.d	S07	2020-11-11 13:31:53
8	010CALS.d	S08	2020-11-11 13:34:54

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	98.65	0.0001	P	11.0
2	☐	1.000	0.920	865.86	0.0007	P	7.7
3	☐	50.000	51.126	42142.05	0.0335	P	0.9
4	☐	125.000	125.034	105742.65	0.0818	P	2.8
5	☐	250.000	251.239	211053.67	0.1644	P	1.5
6	☐	500.000	497.192	423403.41	0.3252	P	1.9
7	☐	1000.000	1001.034	835019.94	0.6547	P	2.0
8	☐			500.58	0.0004	P	10.6

$$y = 6.5398\text{E-}004 * x + 7.8251\text{E-}005$$

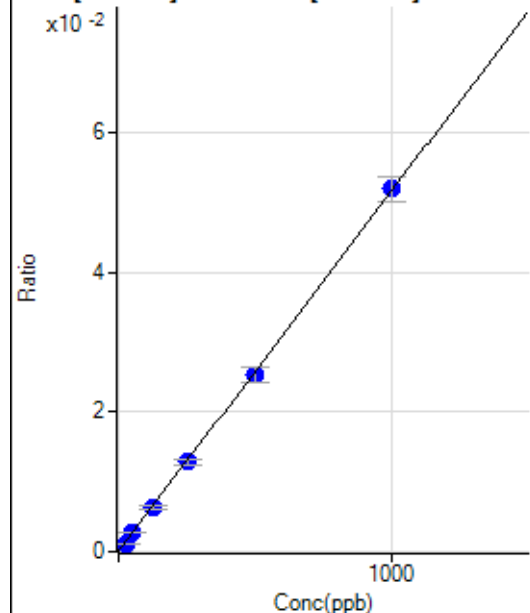
$$R = 1.0000$$

$$DL = 0.03938$$

$$BEC = 0.1197$$

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	88.65	0.0001	P	5.6
2	☐	25.000	21.790	1518.45	0.0012	P	4.2
3	☐	50.000	51.704	3433.07	0.0027	P	7.2
4	☐	125.000	123.494	8311.39	0.0064	P	8.2
5	☐	250.000	247.122	16435.31	0.0128	P	8.0
6	☐	500.000	489.187	32883.53	0.0253	P	8.2
7	☐	1000.000	1006.309	66227.29	0.0519	P	6.8
8	☐			11855.80	0.0094	P	12.7

$$y = 5.1479\text{E-}005 * x + 7.0247\text{E-}005$$

$$R = 0.9999$$

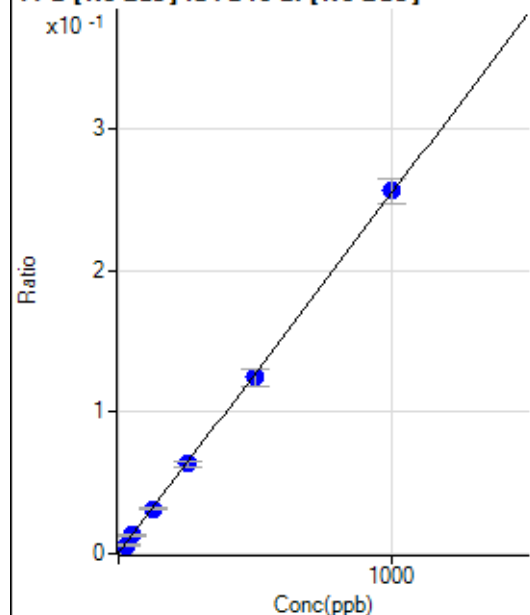
$$DL = 0.2307$$

$$BEC = 1.365$$

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	419.92	0.0003	P	1.7
2	☐	25.000	21.991	7535.13	0.0059	P	7.1
3	☐	50.000	50.791	16612.14	0.0132	P	10.8
4	☐	125.000	123.294	40887.92	0.0316	P	6.7
5	☐	250.000	248.116	81318.09	0.0633	P	7.7
6	☐	500.000	487.673	161576.54	0.1241	P	9.2
7	☐	1000.000	1006.883	326643.90	0.2559	P	7.1
8	☐			57596.35	0.0456	P	12.9

$$y = 2.5377\text{E-}004 * x + 3.3289\text{E-}004$$

$$R = 0.9999$$

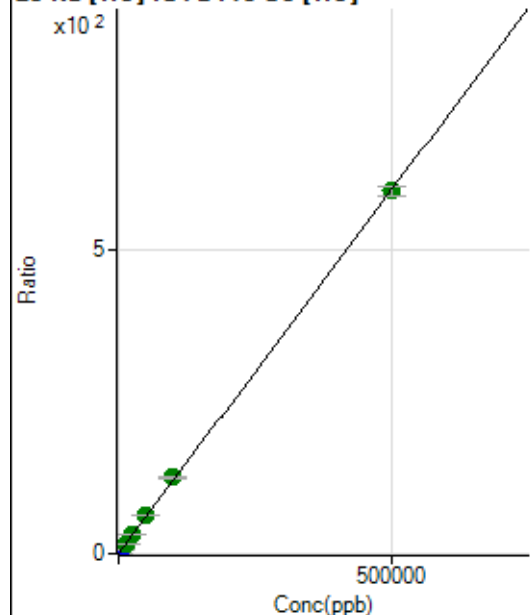
$$DL = 0.06621$$

$$BEC = 1.312$$

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	32191.66	0.3003	P	2.0
2	☐	500.000	521.404	98274.30	0.9242	P	1.6
3	☐	5000.000	5411.337	728006.37	6.7752	P	0.1
4	☐	12500.000	13374.578	1751750.06	16.3036	A	3.0
5	☐	25000.000	25893.960	3375975.47	31.2836	A	4.5
6	☐	50000.000	52077.797	6717321.33	62.6137	A	0.7
7	☐	100000.00	104271.09	13490830.68	125.0653	A	1.6
8	☐	500000.00	498867.30	64654985.47	597.2173	A	2.6

$$y = 0.0012 * x + 0.3003$$

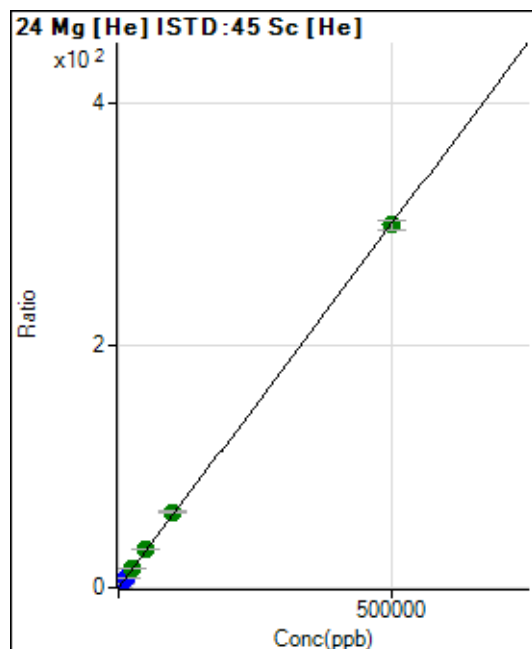
$$R = 1.0000$$

$$DL = 14.82$$

$$BEC = 251$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	588.92	0.0055	P	9.5
2	☐	500.000	526.490	34249.27	0.3221	P	1.8
3	☐	5000.000	5472.030	354142.50	3.2959	P	0.6
4	☐	12500.000	13704.947	886081.19	8.2465	P	2.6
5	☐	25000.000	26629.675	1728385.46	16.0184	A	4.9
6	☐	50000.000	52672.122	3398465.66	31.6781	A	0.7
7	☐	100000.00	103932.70	6741252.41	62.5019	A	3.0
8	☐	500000.00	498829.89	32475245.52	299.9601	A	2.3

$$y = 6.0132\text{E-}004 * x + 0.0055$$

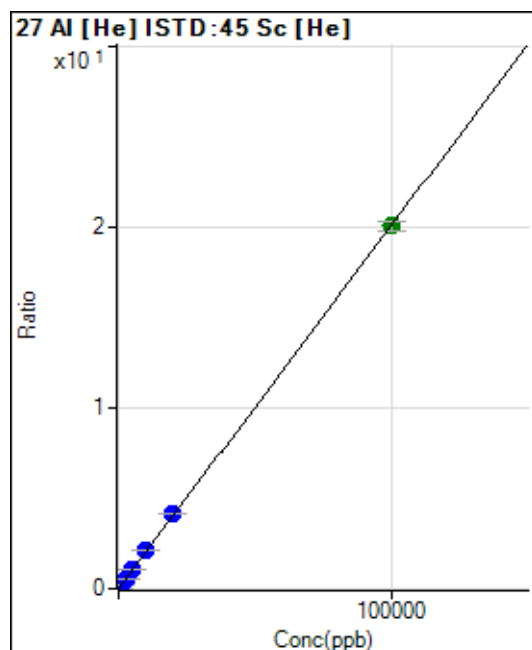
$$R = 1.0000$$

$$DL = 2.598$$

$$BEC = 9.146$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	424.12	0.0040	P	4.0
2	☐	20.000	20.085	850.75	0.0080	P	0.7
3	☐	1000.000	1045.012	23024.41	0.2143	P	1.7
4	☐	2500.000	2611.963	56911.45	0.5297	P	2.8
5	☐	5000.000	5160.752	112486.94	1.0427	P	5.5
6	☐	10000.000	10345.691	223802.90	2.0863	P	0.6
7	☐	20000.000	20596.085	447597.06	4.1494	P	1.5
8	☐	100000.00	99834.927	2175786.39	20.0979	A	2.6

$$y = 2.0127\text{E-}004 * x + 0.0040$$

$$R = 1.0000$$

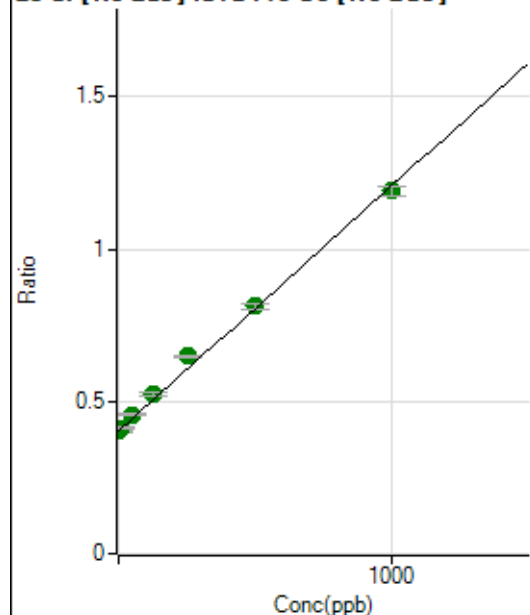
$$DL = 2.347$$

$$BEC = 19.66$$

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	1056652.43	0.4026	A	1.3
2	☐	10.000	10.548	1080583.18	0.4111	A	1.4
3	☐	50.000	67.700	1217173.00	0.4571	A	0.5
4	☐	125.000	150.158	1430412.34	0.5236	A	2.4
5	☐	250.000	303.261	1750167.16	0.6468	A	1.2
6	☐	500.000	508.657	2228708.60	0.8123	A	2.5
7	☐	1000.000	978.321	3307333.71	1.1905	A	2.7
8	☐			1206498.04	0.4604	A	4.8

$$y = 8.0531E-004 * x + 0.4026$$

R = 0.9982

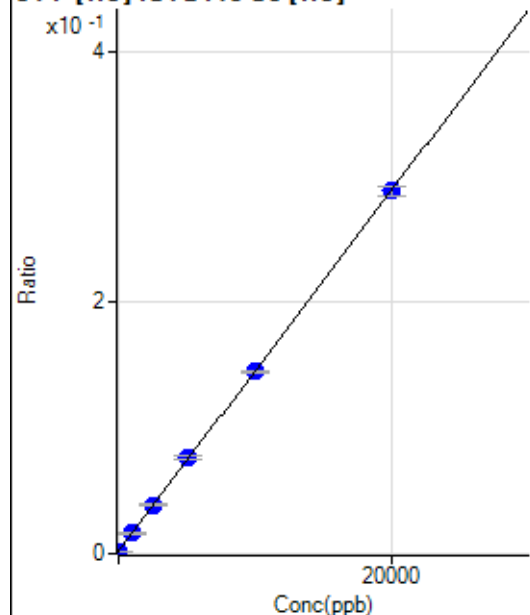
DL = 18.92

BEC = 500

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	4.158	213.90	0.0020	P	14.5
2	☐	0.000	-4.158	200.01	0.0019	P	39.7
3	☐	1000.000	1000.452	1752.94	0.0163	P	13.4
4	☐	2500.000	2570.219	4175.70	0.0389	P	5.9
5	☐	5000.000	5204.900	8283.14	0.0768	P	4.7
6	☐	10000.000	9943.858	15542.01	0.1449	P	1.6
7	☐	20000.000	19968.046	31172.92	0.2890	P	2.3
8	☐			250.01	0.0023	P	4.2

$$y = 1.4375E-005 * x + 0.0019$$

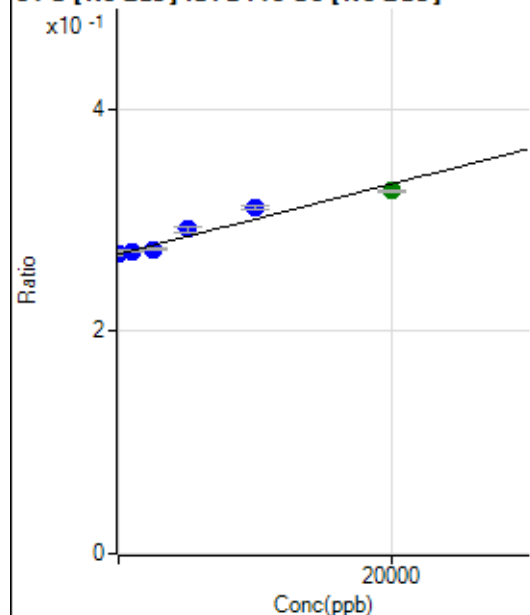
R = 0.9999

DL = 108.2

BEC = 134.8

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	-57.880	706443.53	0.2692	P	1.4
2	☐	0.000	57.880	708477.86	0.2696	P	1.2
3	☐	1000.000	804.234	723978.62	0.2719	P	0.4
4	☐	2500.000	1299.305	747255.19	0.2735	P	0.5
5	☐	5000.000	7001.517	788505.06	0.2915	P	1.5
6	☐	10000.000	13307.906	854402.84	0.3114	P	1.4
7	☐	20000.000	18005.543	906349.45	0.3262	A	0.8
8	☐			663812.40	0.2532	P	3.2

$$y = 3.1569\text{E-}006 * x + 0.2694$$

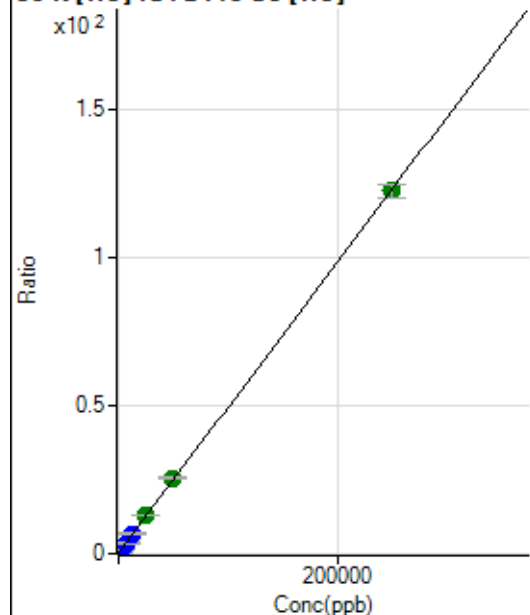
$$R = 0.9689$$

$$DL = 3298$$

$$BEC = 8.533\text{E}+04$$

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	33119.19	0.3090	P	0.7
2	☐	500.000	513.765	59604.15	0.5605	P	0.8
3	☐	2500.000	2675.835	173975.75	1.6191	P	0.9
4	☐	6250.000	6602.414	380575.50	3.5417	P	2.5
5	☐	12500.000	13134.530	727328.25	6.7400	P	4.6
6	☐	25000.000	26299.344	1414648.32	13.1858	A	1.3
7	☐	50000.000	51495.084	2753130.23	25.5224	A	1.5
8	☐	250000.00	249528.72	13258034.67	122.4851	A	3.5

$$y = 4.8963\text{E-}004 * x + 0.3090$$

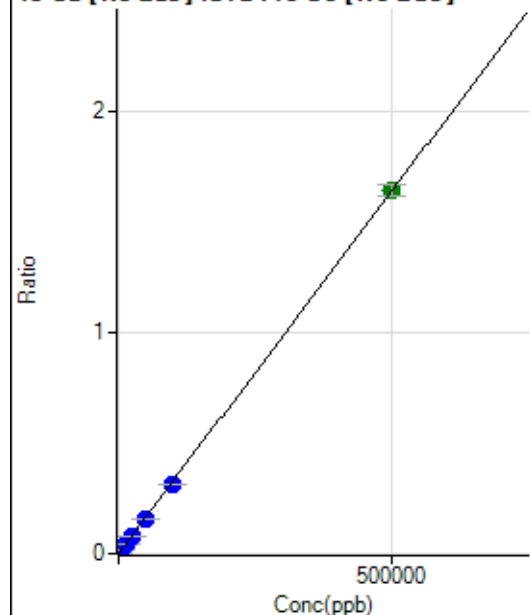
$$R = 1.0000$$

$$DL = 13.2$$

$$BEC = 631$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	389.96	0.0001	P	5.0
2	☐	500.000	471.741	4449.31	0.0017	P	3.1
3	☐	5000.000	4899.420	43103.33	0.0162	P	0.7
4	☐	12500.000	12036.793	108076.05	0.0396	P	1.7
5	☐	25000.000	24392.518	216456.40	0.0800	P	0.4
6	☐	50000.000	48743.475	438279.48	0.1597	P	1.2
7	☐	100000.00	96163.808	875102.92	0.3150	P	1.0
8	☐	500000.00	500935.87	4299541.63	1.6402	A	3.2

$$y = 3.2739\text{E-}006 * x + 1.4863\text{E-}004$$

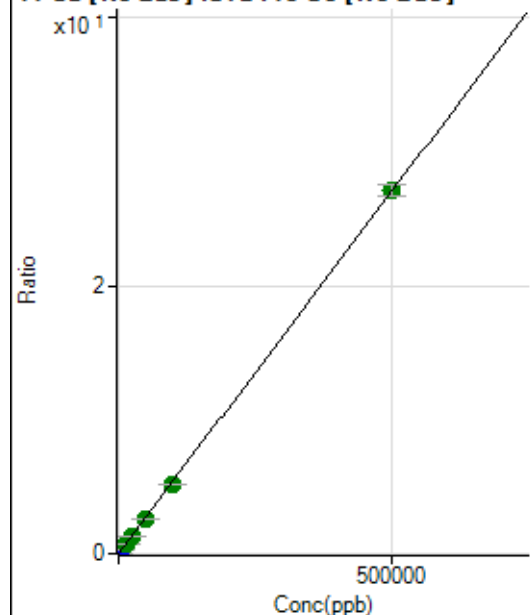
$$R = 1.0000$$

$$DL = 6.843$$

$$BEC = 45.4$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	25864.67	0.0099	P	0.8
2	☐	500.000	471.649	92905.74	0.0353	P	1.2
3	☐	5000.000	4946.805	738109.90	0.2772	P	0.8
4	☐	12500.000	12095.212	1813025.12	0.6636	A	3.2
5	☐	25000.000	24227.674	3569427.47	1.3193	A	1.8
6	☐	50000.000	47719.685	7104195.27	2.5890	A	0.8
7	☐	100000.00	95691.688	14396092.18	5.1818	A	1.8
8	☐	500000.00	501138.99	71024049.61	27.0954	A	3.4

$$y = 5.4048\text{E-}005 * x + 0.0099$$

$$R = 1.0000$$

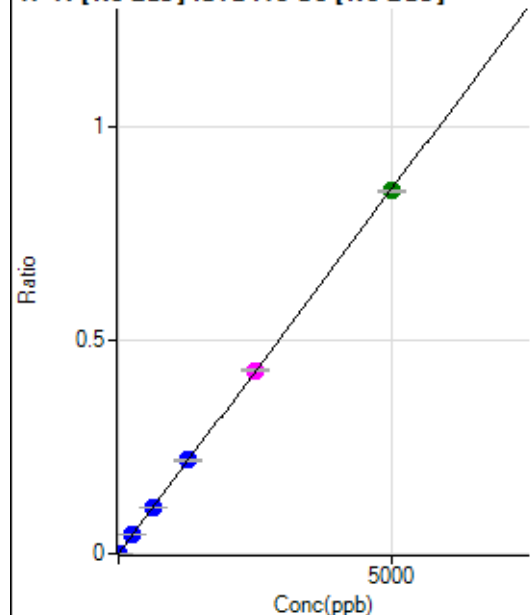
$$DL = 4.441$$

$$BEC = 182.4$$

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	500.02	0.0002	P	5.8
2	☐	5.000	5.111	2789.23	0.0011	P	1.2
3	☐	250.000	259.901	118392.41	0.0445	P	0.6
4	☐	625.000	637.445	297227.50	0.1088	P	1.2
5	☐	1250.000	1289.608	594865.88	0.2199	P	2.2
6	☐	2500.000	2519.130	1178093.09	0.4293	M	1.2
7	☐	5000.000	4978.482	2356899.57	0.8483	A	0.6
8	☐			938.95	0.0004	P	11.7

$$y = 1.7036\text{E-}004 * x + 1.9046\text{E-}004$$

$$R = 1.0000$$

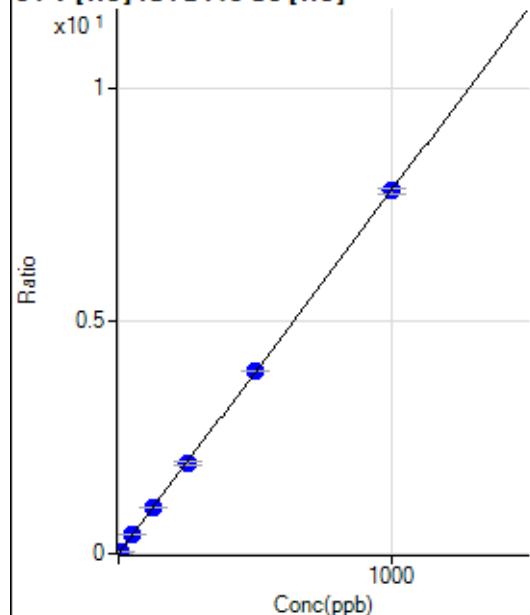
$$DL = 0.1943$$

$$BEC = 1.118$$

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	10.00	0.0001	P	34.9
2	☐	5.000	4.937	4108.41	0.0386	P	2.7
3	☐	50.000	50.786	42604.34	0.3965	P	1.7
4	☐	125.000	126.246	105901.31	0.9856	P	2.4
5	☐	250.000	248.803	209505.31	1.9422	P	5.9
6	☐	500.000	502.047	420420.60	3.9190	P	0.3
7	☐	1000.000	999.081	841242.08	7.7988	P	1.9
8	☐			140.00	0.0013	P	16.9

$$y = 0.0078 * x + 9.3652\text{E-}005$$

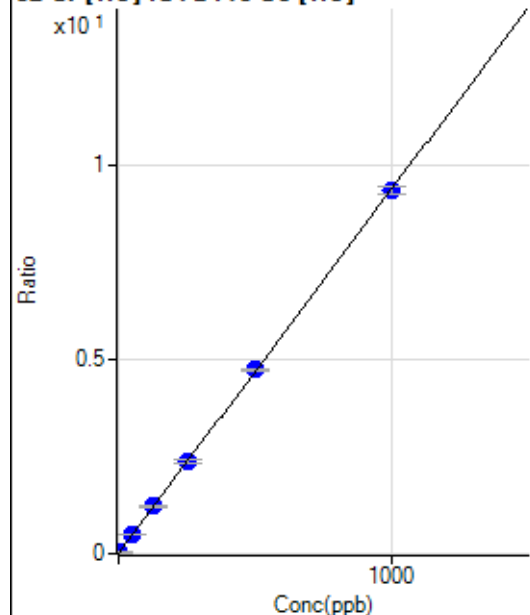
$$R = 1.0000$$

$$DL = 0.01255$$

$$BEC = 0.012$$

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	682.25	0.0064	P	6.2
2	☐	2.000	2.007	2676.94	0.0252	P	3.6
3	☐	50.000	52.217	53272.07	0.4958	P	1.6
4	☐	125.000	129.864	131438.20	1.2235	P	3.7
5	☐	250.000	254.294	257871.61	2.3897	P	4.7
6	☐	500.000	504.948	508358.53	4.7389	P	0.8
7	☐	1000.000	995.733	1007338.33	9.3387	P	2.0
8	☐			8674.92	0.0801	P	4.1

$$y = 0.0094 * x + 0.0064$$

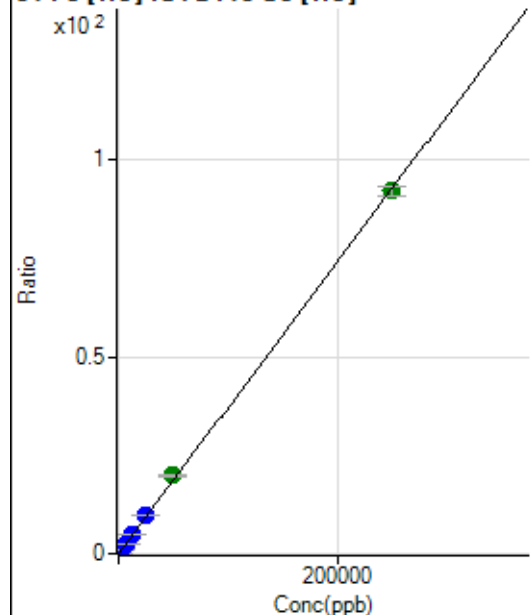
$$R = 1.0000$$

$$DL = 0.1262$$

$$BEC = 0.6794$$

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	359.27	0.0033	P	7.6
2	☐	50.000	54.034	2479.89	0.0233	P	7.1
3	☐	2500.000	2744.718	109397.04	1.0181	P	1.0
4	☐	6250.000	6801.455	270552.03	2.5180	P	2.8
5	☐	12500.000	13428.490	536162.32	4.9682	P	4.4
6	☐	25000.000	26868.973	1066048.21	9.9375	P	0.6
7	☐	50000.000	53914.137	2150587.10	19.9369	A	1.8
8	☐	250000.00	248967.61	9965832.86	92.0535	A	2.5

$$y = 3.6973E-004 * x + 0.0033$$

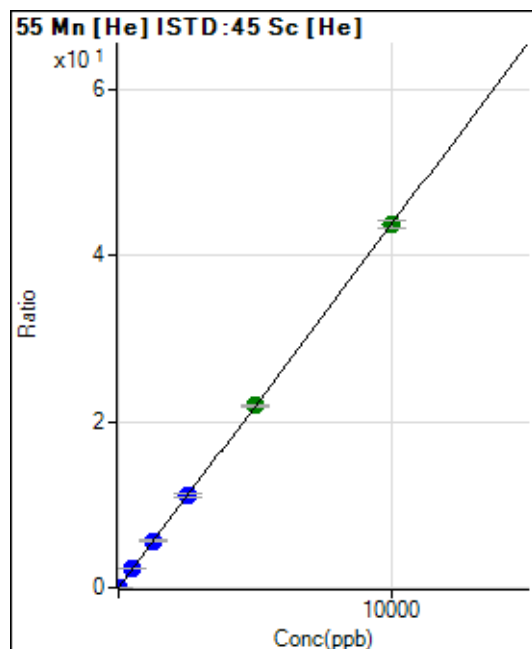
$$R = 0.9999$$

$$DL = 2.059$$

$$BEC = 9.058$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	135.56	0.0013	P	7.1
2	☐	1.000	0.987	593.35	0.0056	P	11.0
3	☐	500.000	515.667	242526.65	2.2571	P	0.2
4	☐	1250.000	1284.384	603818.52	5.6199	P	3.0
5	☐	2500.000	2535.112	1196999.80	11.0913	P	4.3
6	☐	5000.000	5006.352	2349424.95	21.9020	A	1.5
7	☐	10000.000	9982.965	4710758.54	43.6727	A	2.2
8	☐			4597.46	0.0424	P	1.7

$$y = 0.0044 * x + 0.0013$$

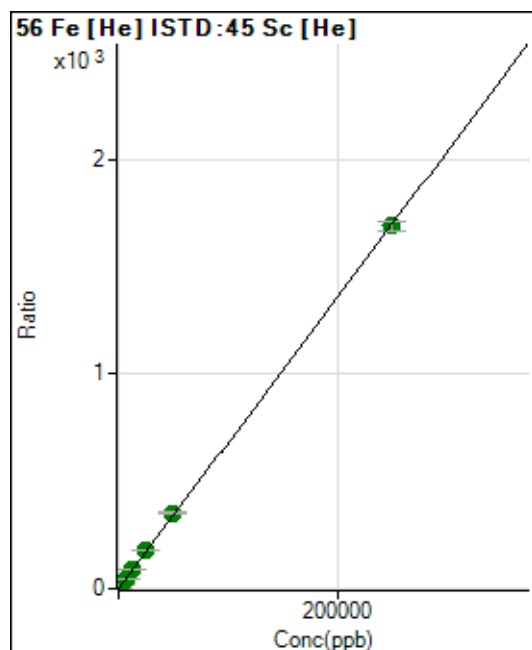
$$R = 1.0000$$

$$DL = 0.06188$$

$$BEC = 0.289$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	2724.37	0.0254	P	2.4
2	☐	50.000	52.947	40866.02	0.3843	P	0.2
3	☐	2500.000	2670.367	1947650.03	18.1264	A	0.7
4	☐	6250.000	6688.124	4872457.40	45.3605	A	4.3
5	☐	12500.000	12985.971	9500382.39	88.0501	A	5.0
6	☐	25000.000	26104.343	18983863.39	176.9723	A	1.4
7	☐	50000.000	52046.080	38054572.61	352.8170	A	2.8
8	☐	250000.00	249443.39	183071037.4	1,690.864	A	2.3

$$y = 0.0068 * x + 0.0254$$

$$R = 1.0000$$

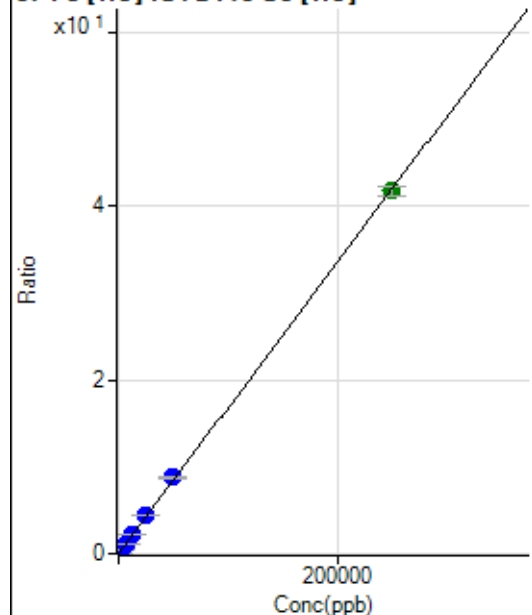
$$DL = 0.2697$$

$$BEC = 3.75$$

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	124.08	0.0012	P	7.5
2	☐	50.000	53.340	1072.28	0.0101	P	4.7
3	☐	2500.000	2679.654	48313.23	0.4496	P	1.8
4	☐	6250.000	6684.968	120334.09	1.1200	P	3.1
5	☐	12500.000	13284.923	240056.09	2.2246	P	4.7
6	☐	25000.000	26467.221	475322.41	4.4309	P	0.8
7	☐	50000.000	52635.760	950379.75	8.8107	P	2.0
8	☐	250000.00	249274.20	4516801.20	41.7215	A	2.6

$$y = 1.6737E-004 * x + 0.0012$$

$$R = 0.9999$$

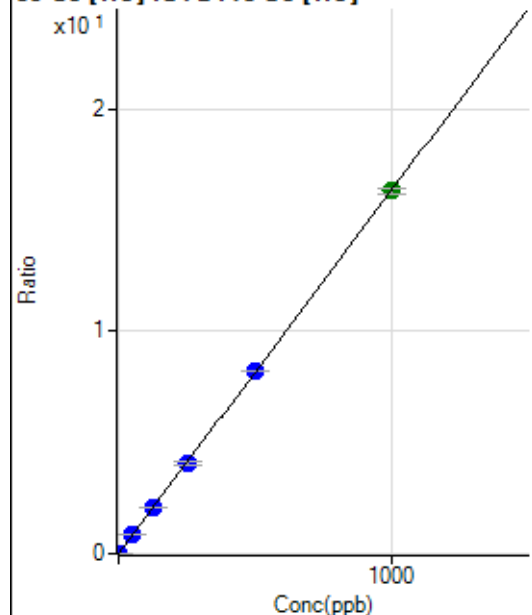
$$DL = 1.553$$

$$BEC = 6.919$$

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	84.44	0.0008	P	9.4
2	☐	1.000	0.944	1724.57	0.0162	P	2.9
3	☐	50.000	50.745	89237.37	0.8305	P	0.6
4	☐	125.000	127.129	223403.34	2.0794	P	3.3
5	☐	250.000	250.140	441415.95	4.0907	P	4.7
6	☐	500.000	502.278	881069.68	8.2132	P	0.7
7	☐	1000.000	998.523	1761149.87	16.3270	A	1.9
8	☐			3148.16	0.0291	P	2.2

$$y = 0.0164 * x + 7.8751E-004$$

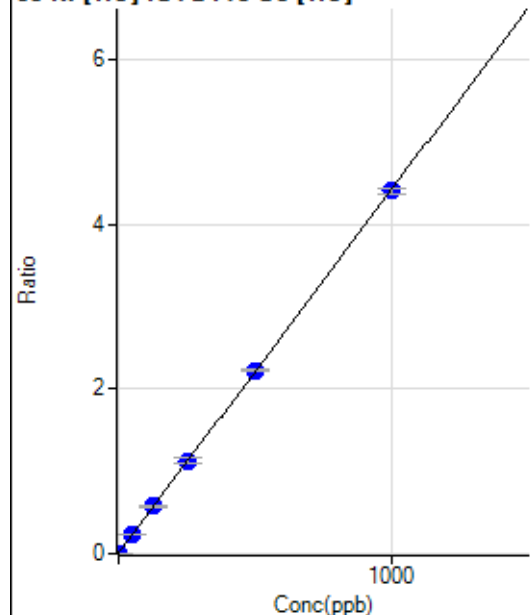
$$R = 1.0000$$

$$DL = 0.01361$$

$$BEC = 0.04816$$

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	661.13	0.0062	P	7.3
2	☐	1.000	1.075	1161.17	0.0109	P	7.8
3	☐	50.000	51.827	25280.26	0.2353	P	1.1
4	☐	125.000	129.883	62346.82	0.5803	P	3.6
5	☐	250.000	254.132	121875.85	1.1296	P	5.2
6	☐	500.000	503.541	239461.24	2.2322	P	0.7
7	☐	1000.000	996.494	475861.22	4.4114	P	1.8
8	☐			3522.69	0.0325	P	2.8

$$y = 0.0044 * x + 0.0062$$

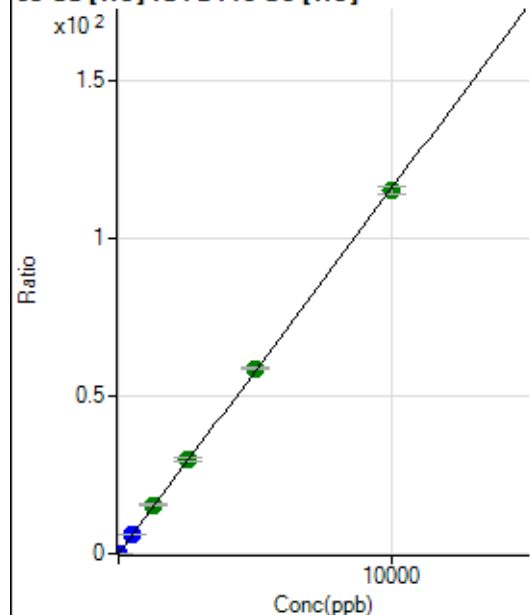
$$R = 1.0000$$

$$DL = 0.3065$$

$$BEC = 1.396$$

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	686.69	0.0064	P	10.7
2	☐	2.000	2.347	3578.26	0.0337	P	0.3
3	☐	500.000	522.522	652208.74	6.0700	P	0.7
4	☐	1250.000	1319.054	1644944.06	15.3132	A	4.1
5	☐	2500.000	2575.564	3225749.22	29.8943	A	4.8
6	☐	5000.000	5077.132	6321134.07	58.9235	A	0.3
7	☐	10000.000	9932.785	12433957.73	115.2704	A	2.0
8	☐			6379.28	0.0589	P	2.8

$$y = 0.0116 * x + 0.0064$$

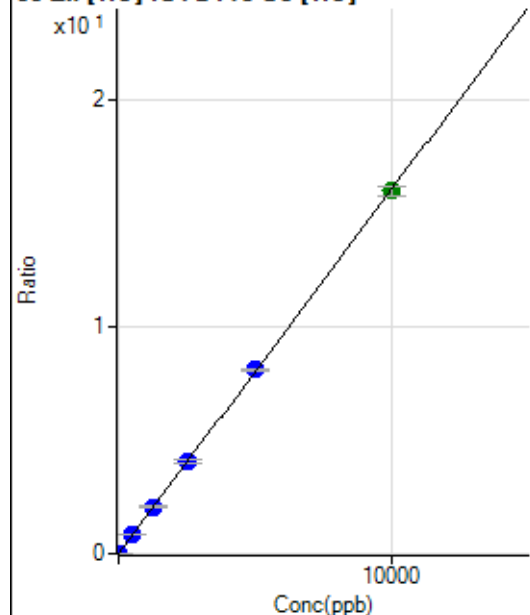
$$R = 0.9999$$

$$DL = 0.1775$$

$$BEC = 0.5526$$

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	104.45	0.0010	P	22.0
2	☐	2.000	2.052	453.34	0.0043	P	12.9
3	☐	500.000	510.880	88085.89	0.8198	P	0.2
4	☐	1250.000	1288.999	222053.44	2.0669	P	3.4
5	☐	2500.000	2521.963	436230.60	4.0430	P	5.0
6	☐	5000.000	5054.251	869102.69	8.1016	P	0.8
7	☐	10000.000	9961.965	1722283.34	15.9673	A	2.4
8	☐			4521.88	0.0418	P	4.8

$$y = 0.0016 * x + 9.7526E-004$$

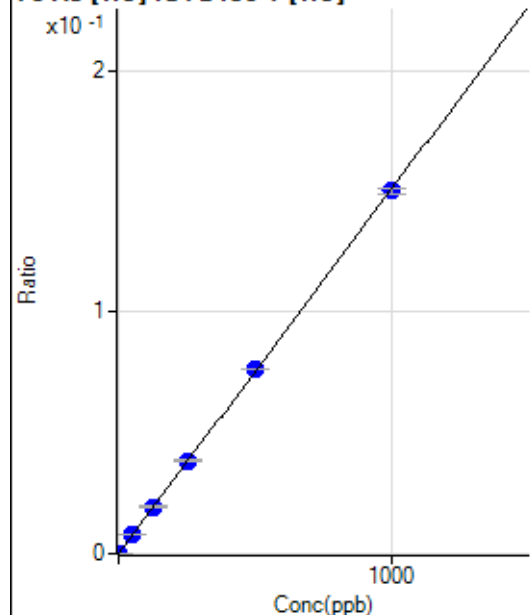
$$R = 1.0000$$

$$DL = 0.401$$

$$BEC = 0.6085$$

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	7.00	0.0000	P	24.0
2	☐	1.000	1.004	130.68	0.0002	P	4.0
3	☐	50.000	50.614	6350.40	0.0076	P	1.1
4	☐	125.000	128.936	16161.18	0.0195	P	2.5
5	☐	250.000	255.452	31886.98	0.0386	P	3.7
6	☐	500.000	506.086	63856.02	0.0764	P	0.3
7	☐	1000.000	995.071	127272.32	0.1502	P	1.3
8	☐			57.68	0.0001	P	11.0

$$y = 1.5094E-004 * x + 8.5083E-006$$

$$R = 1.0000$$

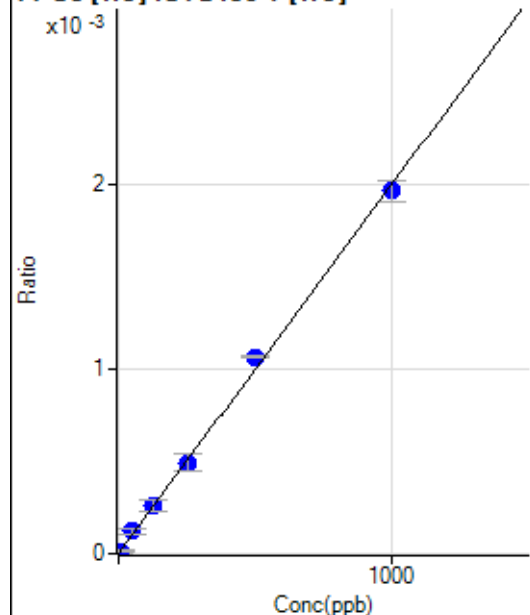
$$DL = 0.04053$$

$$BEC = 0.05637$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	1.11	0.0000	P	173.
2	☐	5.000	6.783	12.22	0.0000	P	55.9
3	☐	50.000	60.244	101.11	0.0001	P	25.1
4	☐	125.000	131.535	218.89	0.0003	P	23.1
5	☐	250.000	246.535	406.68	0.0005	P	18.8
6	☐	500.000	532.274	890.04	0.0011	P	0.9
7	☐	1000.000	983.391	1665.67	0.0020	P	5.7
8	☐			1.11	0.0000	P	173.

$$y = 1.9981\text{E-}006 * x + 1.3768\text{E-}006$$

$$R = 0.9992$$

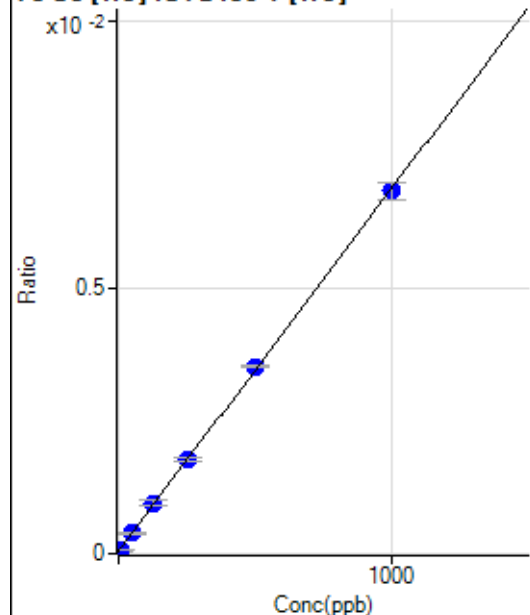
$$DL = 3.58$$

$$BEC = 0.689$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	41.67	0.0001	P	10.7
2	☐	5.000	4.379	65.68	0.0001	P	17.0
3	☐	50.000	48.574	316.70	0.0004	P	5.1
4	☐	125.000	131.477	784.10	0.0009	P	11.6
5	☐	250.000	253.263	1466.89	0.0018	P	5.5
6	☐	500.000	508.582	2936.61	0.0035	P	0.8
7	☐	1000.000	994.158	5777.11	0.0068	P	4.6
8	☐			48.00	0.0001	P	5.3

$$y = 6.8088\text{E-}006 * x + 5.0683\text{E-}005$$

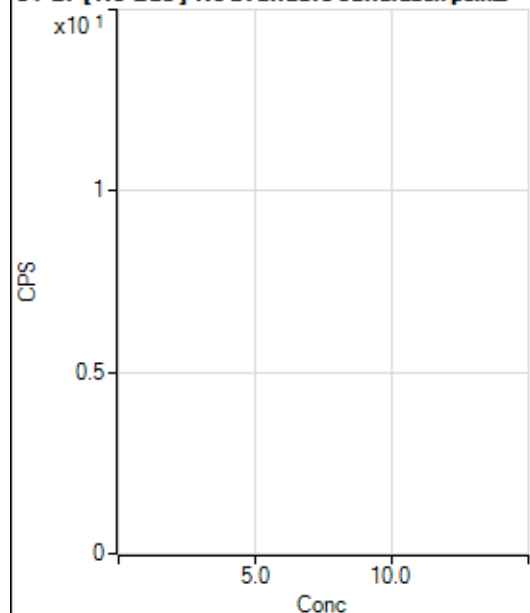
$$R = 0.9999$$

$$DL = 2.399$$

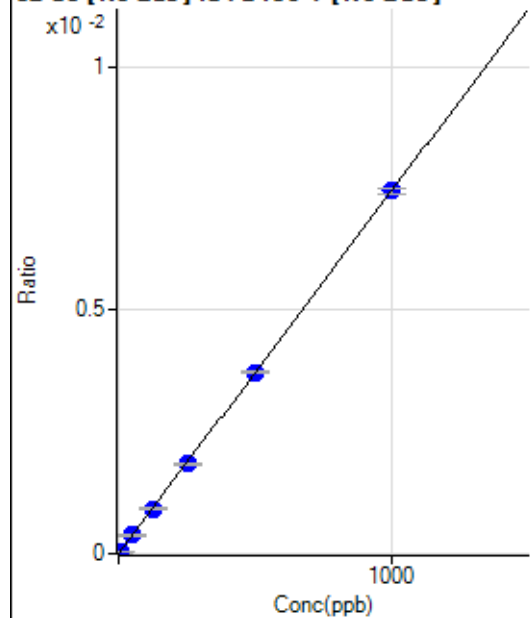
$$BEC = 7.444$$

Weight: <None>

Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			3497.37		P	4.9
2	☐			3487.37		P	1.6
3	☐			3260.42		P	6.5
4	☐			3407.27		P	4.4
5	☐			3390.59		P	0.9
6	☐			3330.50		P	0.9
7	☐			3273.77		P	5.7
8	☐			3413.94		P	6.4

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	-20.41	0.0000	P	-58.
2	☐	5.000	5.168	256.06	0.0000	P	8.5
3	☐	50.000	50.537	2650.70	0.0004	P	5.5
4	☐	125.000	123.591	6763.88	0.0009	P	3.0
5	☐	250.000	248.187	13458.99	0.0018	P	1.5
6	☐	500.000	500.424	27316.17	0.0037	P	0.9
7	☐	1000.000	1000.390	54312.15	0.0074	P	1.4
8	☐			18.06	0.0000	P	251.

$$y = 7.4490\text{E-}006 * x - 2.8221\text{E-}006$$

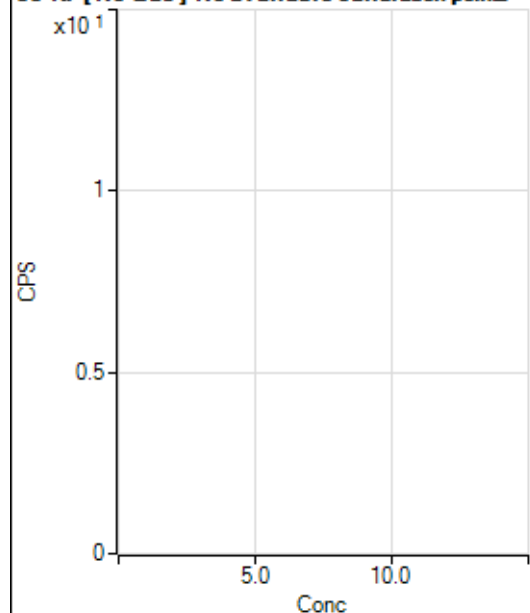
$$R = 1.0000$$

$$DL = 0.664$$

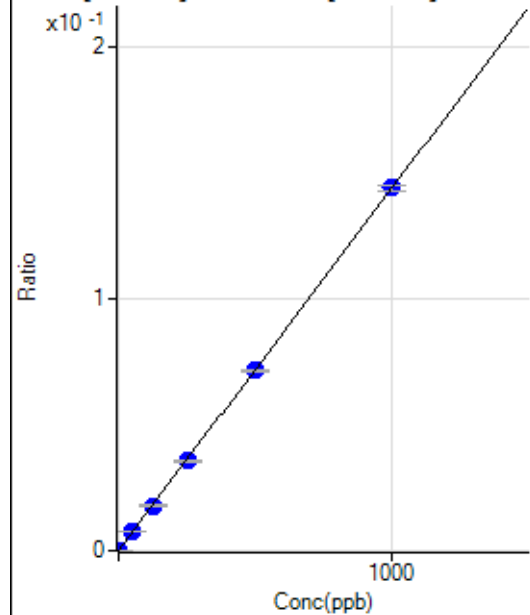
$$BEC = -0.3789$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			442.23		P	1.9
2	☐			437.79		P	5.1
3	☐			408.90		P	9.7
4	☐			395.57		P	13.5
5	☐			443.35		P	4.9
6	☐			390.01		P	11.2
7	☐			424.46		P	2.0
8	☐			436.68		P	5.8

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	605.59	0.0001	P	18.4
2	☐	1.000	0.950	1583.47	0.0002	P	1.3
3	☐	50.000	50.515	52170.49	0.0074	P	1.2
4	☐	125.000	123.637	131772.26	0.0179	P	1.3
5	☐	250.000	247.948	260799.99	0.0358	P	2.3
6	☐	500.000	497.488	525706.09	0.0717	P	0.8
7	☐	1000.000	1001.913	1051981.89	0.1443	P	1.5
8	☐			6699.00	0.0009	P	1.4

$$y = 1.4392E-004 * x + 8.3846E-005$$

$$R = 1.0000$$

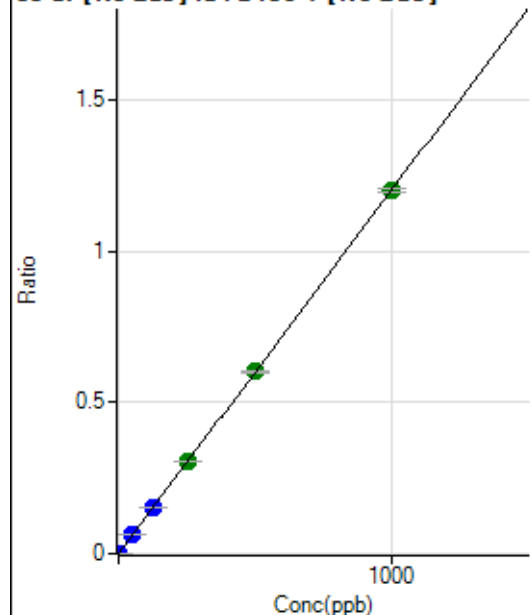
$$DL = 0.3216$$

$$BEC = 0.5826$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	138.89	0.0000	P	26.5
2	☐	1.000	1.006	8825.22	0.0012	P	4.6
3	☐	50.000	51.502	439394.79	0.0619	P	0.6
4	☐	125.000	127.595	1130670.90	0.1534	P	2.5
5	☐	250.000	253.196	2219728.80	0.3044	A	1.1
6	☐	500.000	501.225	4419611.12	0.6026	A	1.6
7	☐	1000.000	998.189	8750959.48	1.2001	A	1.0
8	☐			50715.01	0.0071	P	4.2

$$y = 0.0012 * x + 1.9220E-005$$

$$R = 1.0000$$

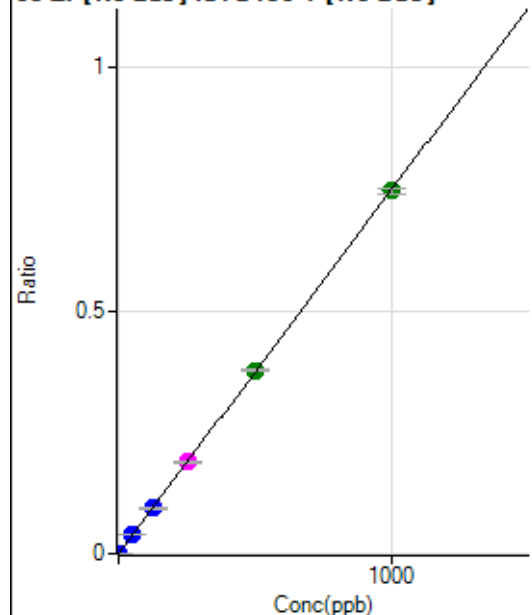
$$DL = 0.01272$$

$$BEC = 0.01599$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	263.90	0.0000	P	29.3
2	☐	1.000	0.955	5390.07	0.0008	P	3.2
3	☐	50.000	51.128	271554.22	0.0383	P	1.0
4	☐	125.000	125.181	690425.31	0.0937	P	1.7
5	☐	250.000	252.474	1377278.54	0.1889	M	2.1
6	☐	500.000	504.196	2766355.53	0.3772	A	0.9
7	☐	1000.000	997.204	5439665.75	0.7460	A	1.3
8	☐			2328.03	0.0003	P	11.5

$$y = 7.4805E-004 * x + 3.6629E-005$$

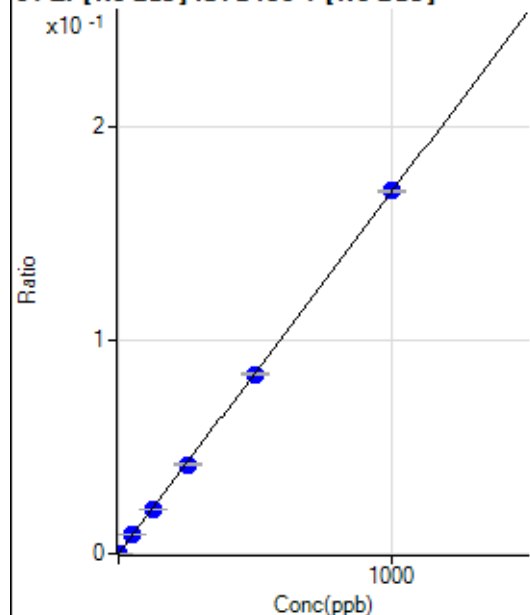
$$R = 1.0000$$

$$DL = 0.04311$$

$$BEC = 0.04897$$

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	80.56	0.0000	P	12.4
2	☐	1.000	0.972	1261.20	0.0002	P	9.9
3	☐	50.000	50.865	61179.19	0.0086	P	1.2
4	☐	125.000	123.314	153985.93	0.0209	P	1.6
5	☐	250.000	246.518	304432.64	0.0418	P	2.2
6	☐	500.000	495.357	615213.58	0.0839	P	0.9
7	☐	1000.000	1003.359	1238924.75	0.1699	P	0.4
8	☐			461.13	0.0001	P	22.0

$$y = 1.6933\text{E-}004 * x + 1.1173\text{E-}005$$

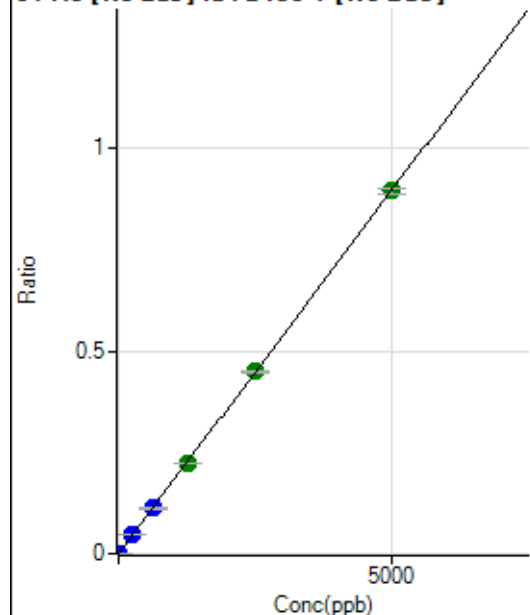
$$R = 1.0000$$

$$DL = 0.02449$$

$$BEC = 0.06598$$

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	94.45	0.0000	P	17.8
2	☐	5.000	5.034	6560.03	0.0009	P	2.3
3	☐	250.000	256.085	325148.51	0.0458	P	1.7
4	☐	625.000	624.204	823316.44	0.1117	P	1.9
5	☐	1250.000	1241.877	1620403.34	0.2222	A	1.5
6	☐	2500.000	2510.039	3293946.19	0.4492	A	1.4
7	☐	5000.000	4996.806	6519478.53	0.8942	A	1.3
8	☐			3161.56	0.0004	P	17.0

$$y = 1.7895\text{E-}004 * x + 1.3085\text{E-}005$$

$$R = 1.0000$$

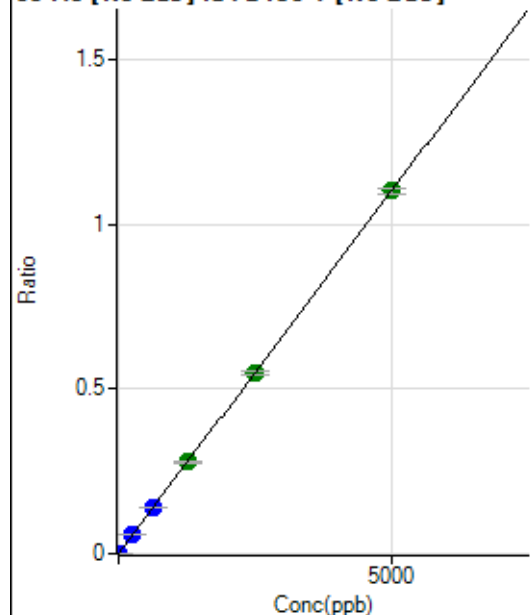
$$DL = 0.03903$$

$$BEC = 0.07313$$

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	38.89	0.0000	P	69.0
2	☐	5.000	4.923	7824.63	0.0011	P	5.0
3	☐	250.000	254.080	397160.10	0.0560	P	1.1
4	☐	625.000	625.315	1015657.85	0.1378	P	0.6
5	☐	1250.000	1260.816	2025688.24	0.2778	A	1.6
6	☐	2500.000	2491.901	4026488.89	0.5491	A	1.5
7	☐	5000.000	5001.102	8034495.75	1.1020	A	1.4
8	☐			3822.86	0.0005	P	16.5

$$y = 2.2034\text{E-}004 * x + 5.3871\text{E-}006$$

$$R = 1.0000$$

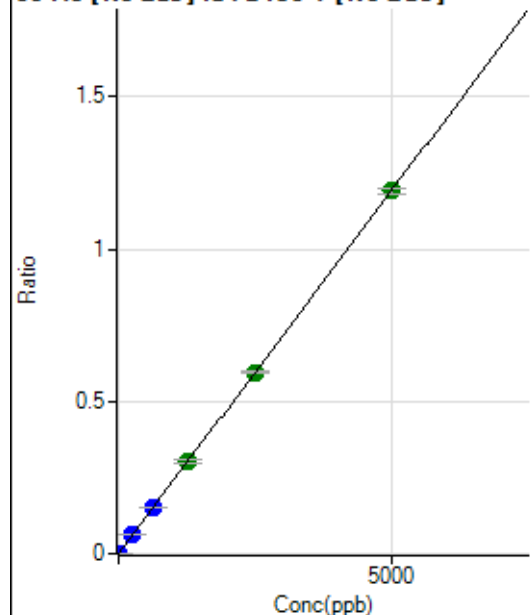
$$DL = 0.05063$$

$$BEC = 0.02445$$

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	52.78	0.0000	P	33.7
2	☐	5.000	4.873	8391.62	0.0012	P	3.5
3	☐	250.000	256.401	433607.91	0.0611	P	1.2
4	☐	625.000	634.068	1114140.17	0.1512	P	1.1
5	☐	1250.000	1270.161	2207520.60	0.3028	A	2.8
6	☐	2500.000	2490.545	4354045.89	0.5937	A	1.0
7	☐	5000.000	4998.234	8687245.25	1.1915	A	1.5
8	☐			4823.20	0.0007	P	19.5

$$y = 2.3838\text{E-}004 * x + 7.3350\text{E-}006$$

$$R = 1.0000$$

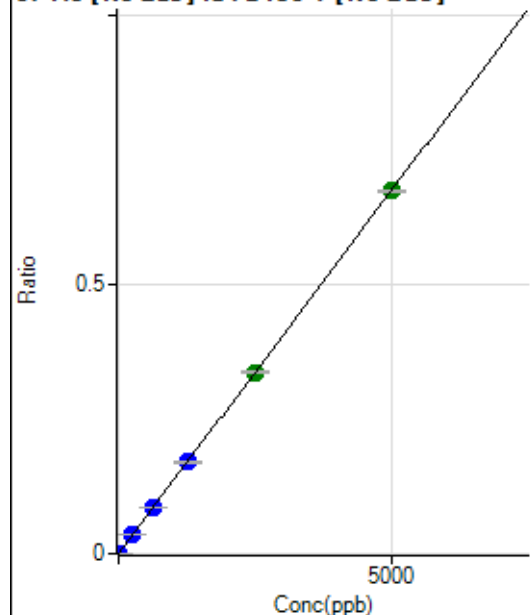
$$DL = 0.03113$$

$$BEC = 0.03077$$

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	5.56	0.0000	P	173.
2	☐	5.000	4.840	4687.02	0.0007	P	3.1
3	☐	250.000	257.637	246244.40	0.0347	P	0.2
4	☐	625.000	627.407	623044.43	0.0845	P	1.6
5	☐	1250.000	1263.545	1241212.10	0.1702	P	2.2
6	☐	2500.000	2501.537	2472025.05	0.3370	A	1.9
7	☐	5000.000	4995.163	4907572.98	0.6730	A	0.2
8	☐			2261.36	0.0003	P	13.6

$$y = 1.3473\text{E-}004 * x + 7.7672\text{E-}007$$

$$R = 1.0000$$

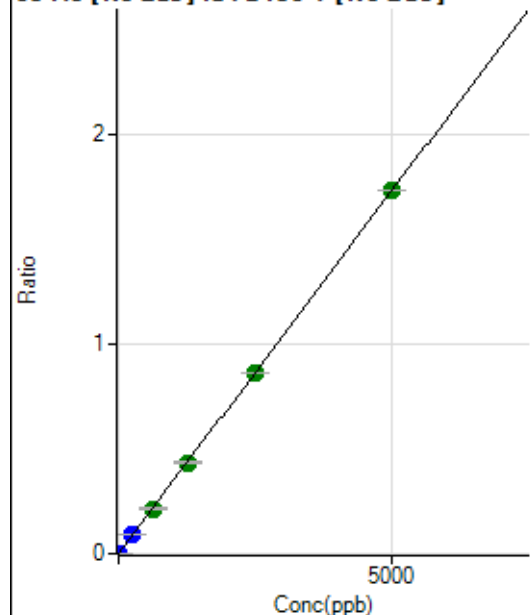
$$DL = 0.02995$$

$$BEC = 0.005765$$

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	19.45	0.0000	P	25.2
2	☐	5.000	4.884	12158.39	0.0017	P	1.5
3	☐	250.000	258.367	634484.57	0.0894	P	1.1
4	☐	625.000	623.250	1590343.99	0.2158	A	1.6
5	☐	1250.000	1252.202	3160637.50	0.4335	A	2.1
6	☐	2500.000	2490.730	6323868.98	0.8623	A	0.3
7	☐	5000.000	5003.885	12631665.73	1.7323	A	0.2
8	☐			6040.41	0.0009	P	16.9

$$y = 3.4619\text{E-}004 * x + 2.6979\text{E-}006$$

$$R = 1.0000$$

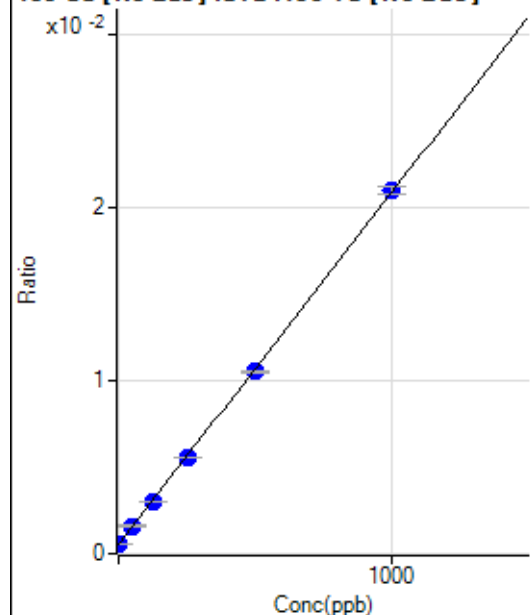
$$DL = 0.00588$$

$$BEC = 0.007793$$

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	2066.87	0.0005	P	7.2
2	☐	1.000	0.056	2052.99	0.0005	P	3.2
3	☐	50.000	51.331	6054.28	0.0016	P	4.8
4	☐	125.000	121.552	11958.31	0.0030	P	1.4
5	☐	250.000	247.307	22263.06	0.0056	P	1.7
6	☐	500.000	491.247	42577.52	0.0105	P	1.0
7	☐	1000.000	1005.415	84044.46	0.0210	P	2.0
8	☐			1980.75	0.0005	P	3.2

$$y = 2.0308\text{E-}005 * x + 5.3426\text{E-}004$$

$$R = 0.9999$$

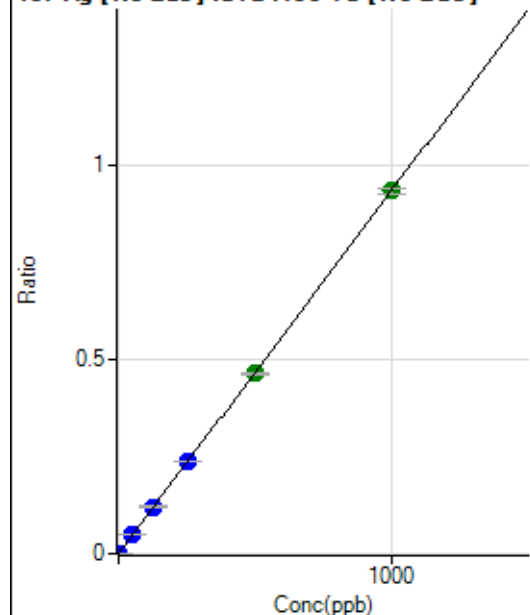
$$DL = 5.67$$

$$BEC = 26.31$$

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	38.89	0.0000	P	25.3
2	☐	1.000	0.974	3536.66	0.0009	P	7.0
3	☐	50.000	52.923	190354.44	0.0496	P	1.3
4	☐	125.000	128.847	480379.33	0.1207	P	2.8
5	☐	250.000	255.208	957654.04	0.2390	P	0.8
6	☐	500.000	496.789	1884758.96	0.4653	A	1.5
7	☐	1000.000	999.677	3755774.95	0.9363	A	1.4
8	☐			2450.29	0.0006	P	9.3

$$y = 9.3655\text{E-}004 * x + 1.0058\text{E-}005$$

$$R = 1.0000$$

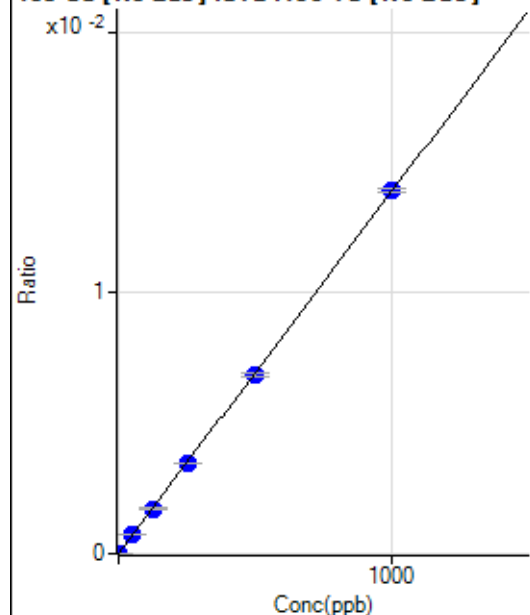
$$DL = 0.008152$$

$$BEC = 0.01074$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	16.67	0.0000	P	25.6
2	☐	1.000	1.334	87.50	0.0000	P	7.8
3	☐	50.000	51.461	2757.25	0.0007	P	2.4
4	☐	125.000	124.404	6883.74	0.0017	P	4.0
5	☐	250.000	250.503	13939.11	0.0035	P	1.0
6	☐	500.000	494.627	27811.46	0.0069	P	1.7
7	☐	1000.000	1002.562	55806.71	0.0139	P	1.0
8	☐			86.11	0.0000	P	35.6

$$y = 1.3871\text{E-}005 * x + 4.3121\text{E-}006$$

$$R = 1.0000$$

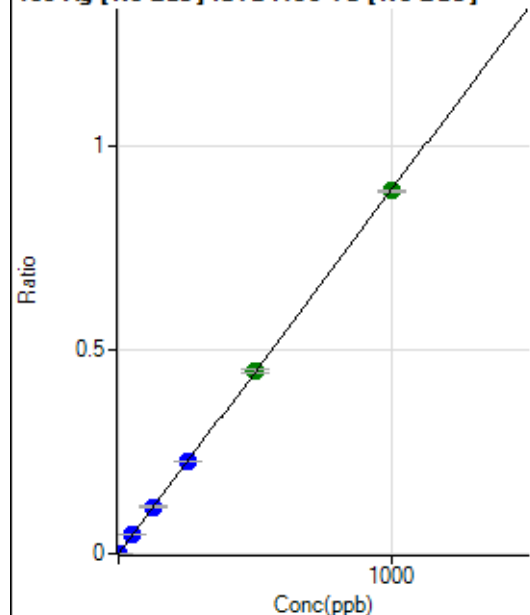
$$DL = 0.2391$$

$$BEC = 0.3109$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	16.67	0.0000	P	0.7
2	☐	1.000	1.023	3520.00	0.0009	P	7.7
3	☐	50.000	53.079	182065.35	0.0474	P	0.3
4	☐	125.000	128.665	457471.62	0.1149	P	2.9
5	☐	250.000	254.578	911106.40	0.2274	P	1.0
6	☐	500.000	502.122	1816852.19	0.4485	A	2.0
7	☐	1000.000	997.183	3573302.95	0.8907	A	0.7
8	☐			2222.47	0.0006	P	6.6

$$y = 8.9325\text{E-}004 * x + 4.3079\text{E-}006$$

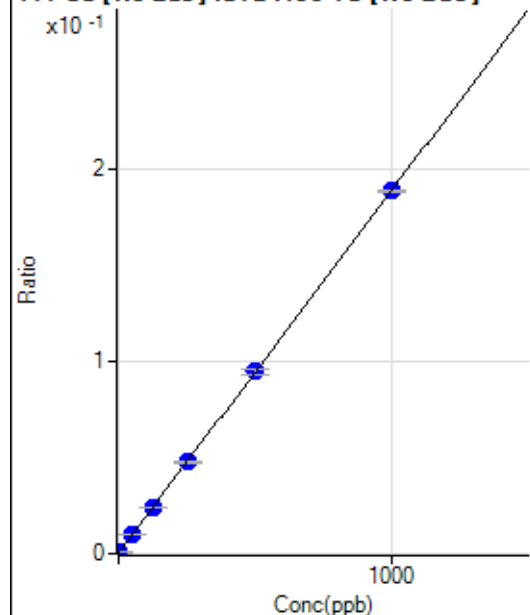
$$R = 1.0000$$

$$DL = 0.0001072$$

$$BEC = 0.004823$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1444.87	0.0004	P	7.2
2	☐	1.000	1.063	2199.49	0.0006	P	5.5
3	☐	50.000	52.146	39147.49	0.0102	P	1.6
4	☐	125.000	125.923	95903.28	0.0241	P	2.6
5	☐	250.000	250.992	190903.83	0.0476	P	1.6
6	☐	500.000	499.770	382816.91	0.0945	P	2.2
7	☐	1000.000	999.644	756861.32	0.1887	P	0.8
8	☐			1752.65	0.0004	P	5.1

$$y = 1.8836\text{E-}004 * x + 3.7348\text{E-}004$$

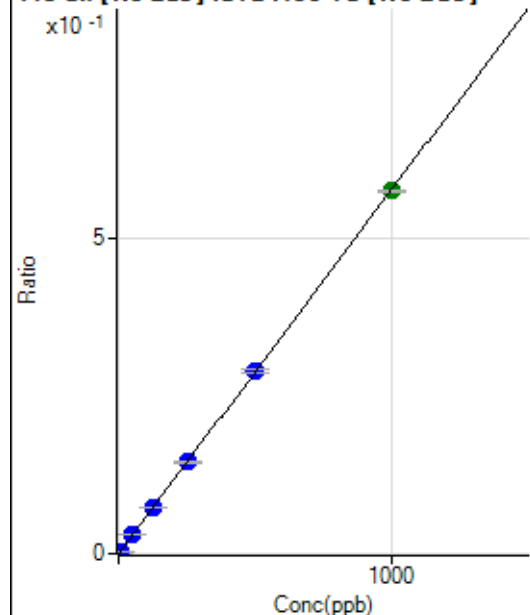
$$R = 1.0000$$

$$DL = 0.4309$$

$$BEC = 1.983$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	172.23	0.0000	P	39.5
2	☐	5.000	4.790	10732.22	0.0028	P	4.2
3	☐	50.000	52.435	115946.86	0.0302	P	0.6
4	☐	125.000	126.880	290597.56	0.0730	P	2.8
5	☐	250.000	252.554	582022.47	0.1453	P	1.3
6	☐	500.000	503.629	1173331.03	0.2897	P	1.9
7	☐	1000.000	997.191	2300576.55	0.5735	A	0.7
8	☐			1266.77	0.0003	P	13.6

$$y = 5.7505\text{E-}004 * x + 4.4579\text{E-}005$$

$$R = 1.0000$$

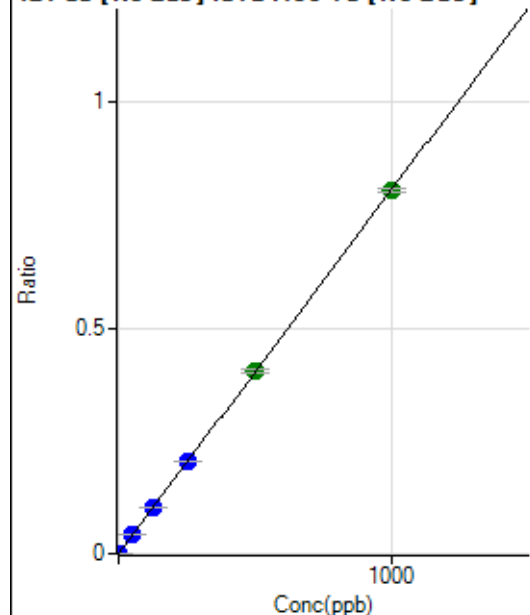
$$DL = 0.09191$$

$$BEC = 0.07752$$

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	69.8
2	☐	2.000	2.024	6271.05	0.0016	P	5.2
3	☐	50.000	52.219	161640.10	0.0421	P	0.1
4	☐	125.000	126.997	407535.77	0.1024	P	2.5
5	☐	250.000	254.451	821807.86	0.2051	P	0.8
6	☐	500.000	502.944	1642336.86	0.4054	A	1.5
7	☐	1000.000	997.055	3224228.04	0.8037	A	0.9
8	☐			3197.68	0.0008	P	4.1

$$y = 8.0610E-004 * x + 3.5969E-006$$

$$R = 1.0000$$

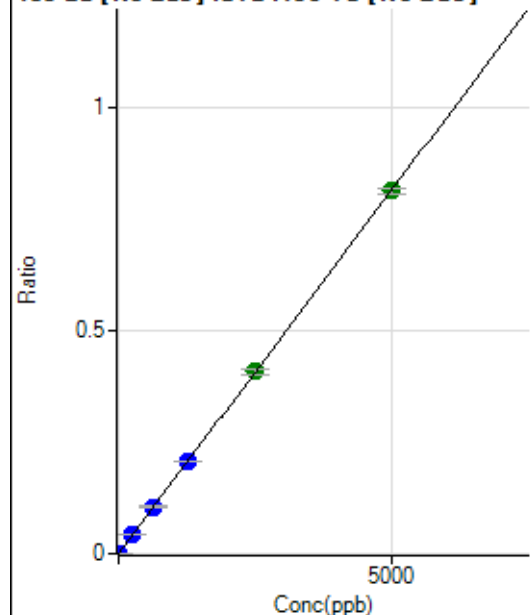
$$DL = 0.00935$$

$$BEC = 0.004462$$

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	36.11	0.0000	P	34.5
2	☐	10.000	10.308	6473.94	0.0017	P	5.0
3	☐	250.000	259.408	162233.85	0.0423	P	2.0
4	☐	625.000	641.588	415836.95	0.1045	P	3.4
5	☐	1250.000	1267.926	827253.32	0.2065	P	1.1
6	☐	2500.000	2500.750	1649464.52	0.4072	A	2.6
7	☐	5000.000	4992.599	3261223.31	0.8130	A	1.5
8	☐			6315.52	0.0016	P	4.6

$$y = 1.6284E-004 * x + 9.3156E-006$$

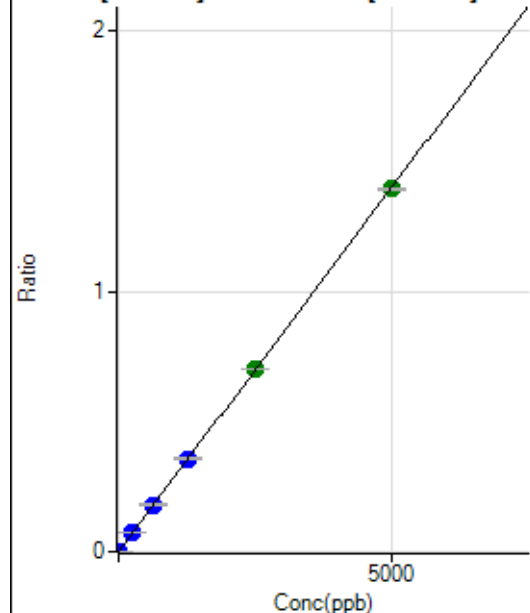
$$R = 1.0000$$

$$DL = 0.05918$$

$$BEC = 0.05721$$

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	69.45	0.0000	P	39.2
2	☐	10.000	10.088	10887.98	0.0028	P	2.2
3	☐	250.000	262.170	281586.43	0.0733	P	0.3
4	☐	625.000	640.366	712609.36	0.1791	P	4.5
5	☐	1250.000	1280.816	1435074.97	0.3582	P	2.0
6	☐	2500.000	2509.089	2842688.45	0.7017	A	0.7
7	☐	5000.000	4985.222	5593042.62	1.3942	A	0.7
8	☐			11088.15	0.0028	P	8.5

$$y = 2.7966E-004 * x + 1.7973E-005$$

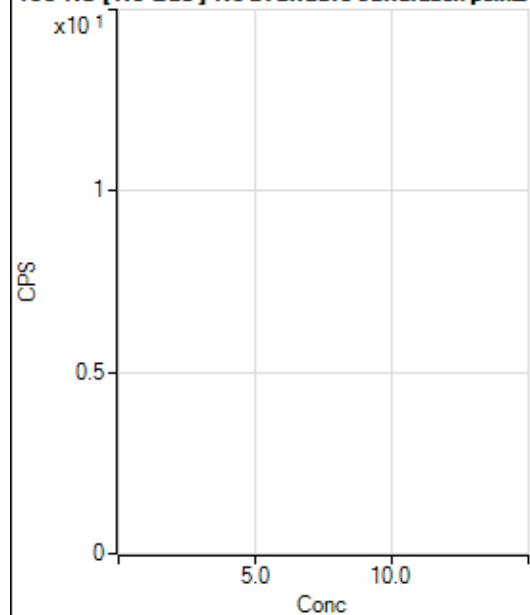
$$R = 1.0000$$

$$DL = 0.0755$$

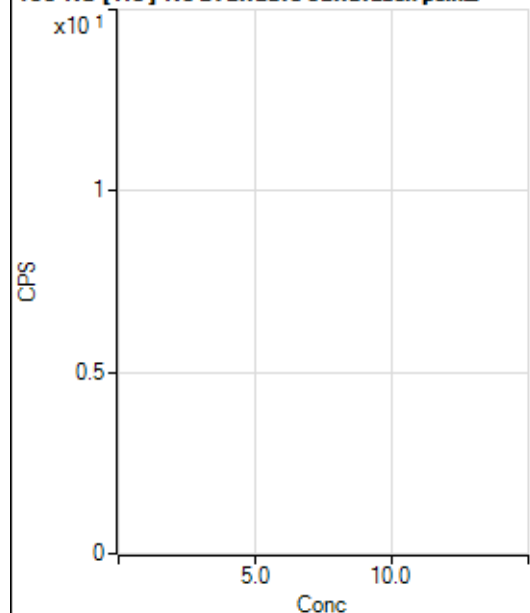
$$BEC = 0.06427$$

Weight: <None>

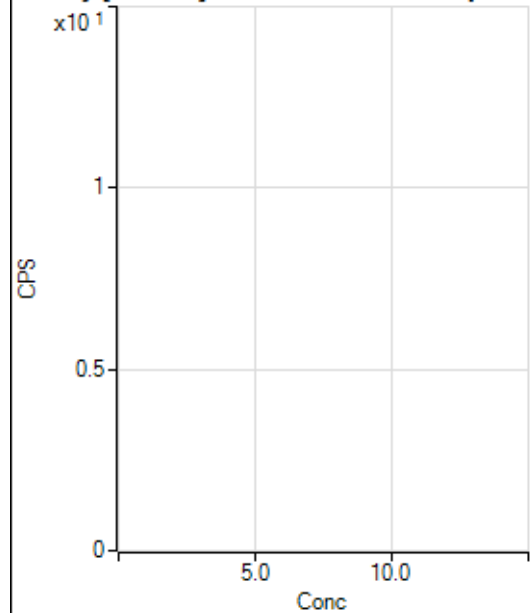
Min Conc: 0

150 Nd [No Gas] No available calibration points

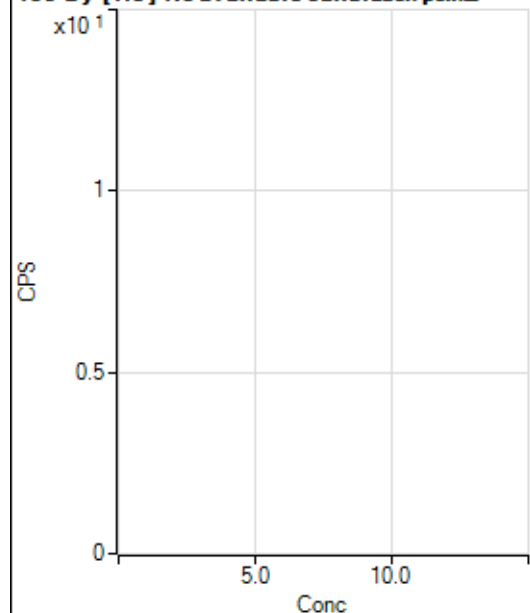
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2.22		P	173.
2	☐			4.45		P	86.6
3	☐			13.33		P	173.
4	☐			20.00		P	33.4
5	☐			37.78		P	56.7
6	☐			71.11		P	30.1
7	☐			142.23		P	21.1
8	☐			20.00		P	66.7

150 Nd [He] No available calibration points

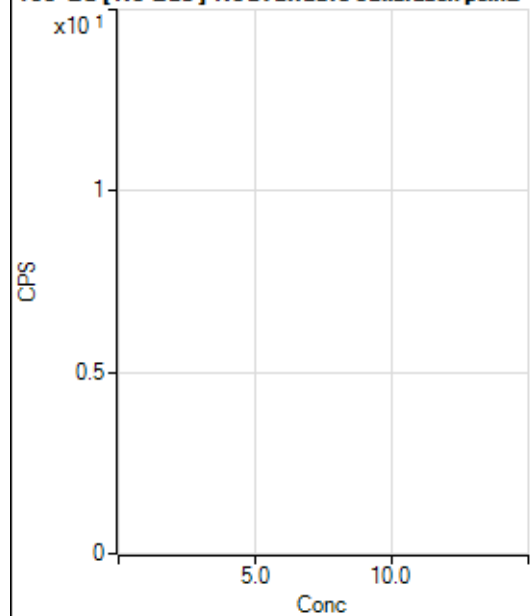
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1.11		P	173.
2	☐			1.11		P	173.
3	☐			3.33		P	100.
4	☐			1.11		P	173.
5	☐			6.66		P	86.6
6	☐			3.33		P	100.
7	☐			16.67		P	20.0
8	☐			4.45		P	86.6

156 Dy [No Gas] No available calibration points

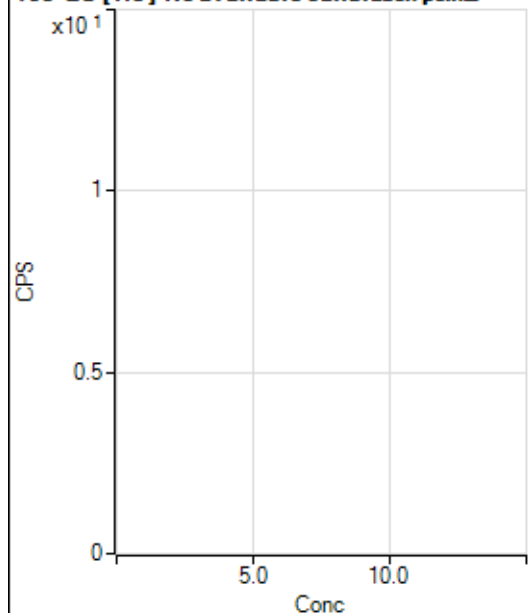
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			19.45		P	107.
2	☐			27.78		P	62.5
3	☐			19.44		P	65.5
4	☐			25.00		P	57.7
5	☐			36.11		P	53.3
6	☐			77.78		P	30.9
7	☐			80.56		P	26.0
8	☐			183.34		P	27.3

156 Dy [He] No available calibration points

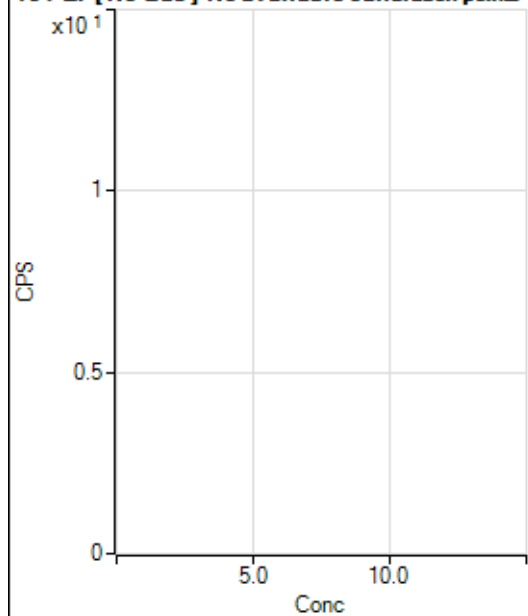
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			8.89		P	86.6
2	☐			4.44		P	43.4
3	☐			5.55		P	69.3
4	☐			10.00		P	57.7
5	☐			10.00		P	57.8
6	☐			12.22		P	31.5
7	☐			27.78		P	18.3
8	☐			95.55		P	22.2

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

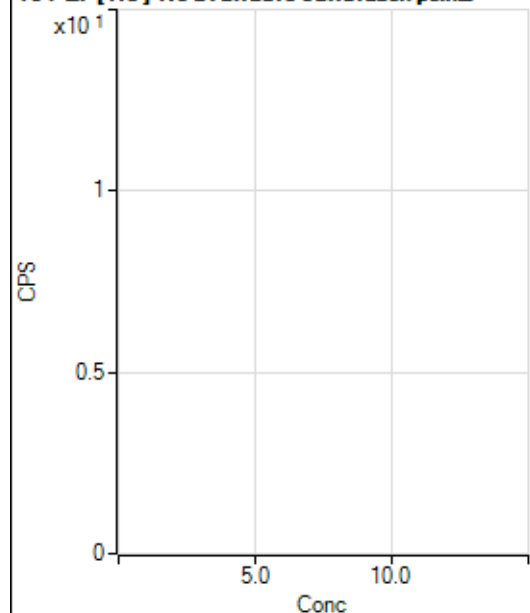
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			38.89		P	32.7
2	☐			30.56		P	31.5
3	☐			33.33		P	50.0
4	☐			44.44		P	39.0
5	☐			50.00		P	57.7
6	☐			69.45		P	34.6
7	☐			100.00		P	22.0
8	☐			261.12		P	22.4

160 Gd [He] No available calibration points

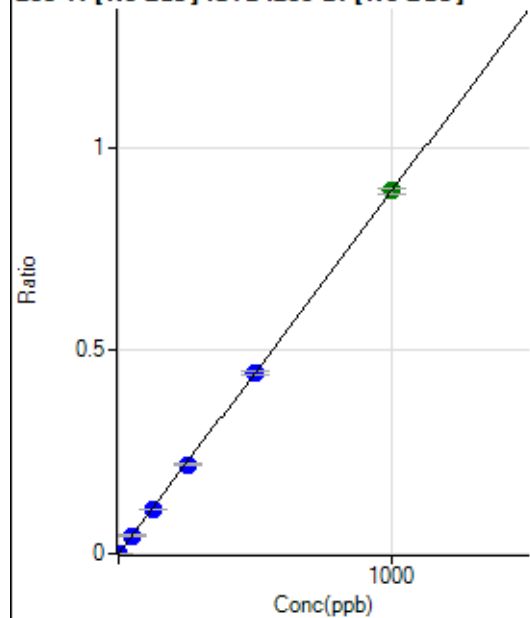
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			10.00		P	33.3
2	☐			7.78		P	65.5
3	☐			10.00		P	66.7
4	☐			22.22		P	45.8
5	☐			21.11		P	18.2
6	☐			26.66		P	21.7
7	☐			22.22		P	70.9
8	☐			138.89		P	21.5

164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			8.33		P	173.
2	☐			38.89		P	75.3
3	☐			27.78		P	17.3
4	☐			13.89		P	34.7
5	☐			22.22		P	43.3
6	☐			25.00		P	57.7
7	☐			30.55		P	83.3
8	☐			22.22		P	57.3

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			7.78		P	49.5
2	☐			6.67		P	100.
3	☐			17.78		P	21.7
4	☐			7.78		P	24.7
5	☐			18.89		P	27.0
6	☐			16.67		P	34.6
7	☐			7.78		P	137.
8	☐			14.45		P	26.7

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	22.22	0.0000	P	21.0
2	☐	1.000	0.877	1572.36	0.0008	P	11.4
3	☐	50.000	49.943	89071.73	0.0446	P	2.5
4	☐	125.000	122.188	225774.97	0.1090	P	3.2
5	☐	250.000	245.766	455640.66	0.2193	P	1.9
6	☐	500.000	500.109	923015.71	0.4463	P	1.7
7	☐	1000.000	1001.358	1853645.05	0.8935	A	1.8
8	☐			1494.58	0.0008	P	23.5

$$y = 8.9229\text{E-}004 * x + 1.1072\text{E-}005$$

$$R = 1.0000$$

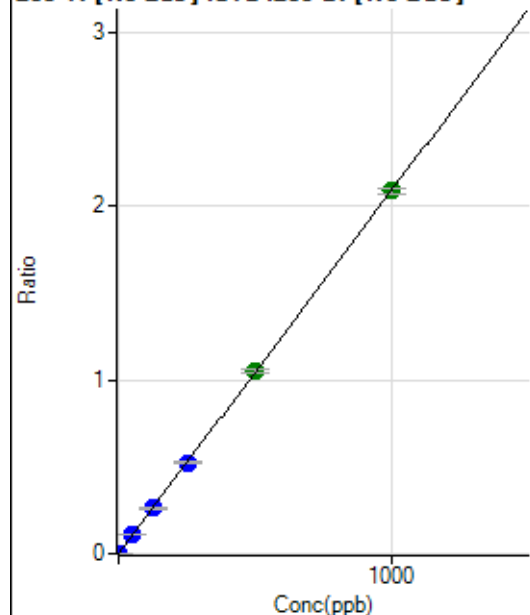
$$DL = 0.007822$$

$$BEC = 0.01241$$

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	58.34	0.0000	P	51.6
2	☐	1.000	0.964	4047.97	0.0020	P	7.0
3	☐	50.000	51.025	212951.45	0.1066	P	2.5
4	☐	125.000	124.541	538550.33	0.2601	P	2.0
5	☐	250.000	250.311	1085916.48	0.5227	P	2.6
6	☐	500.000	501.349	2165427.61	1.0468	A	1.9
7	☐	1000.000	999.254	4328475.31	2.0865	A	1.9
8	☐			3411.66	0.0018	P	12.3

$$y = 0.0021 * x + 2.9129E-005$$

$$R = 1.0000$$

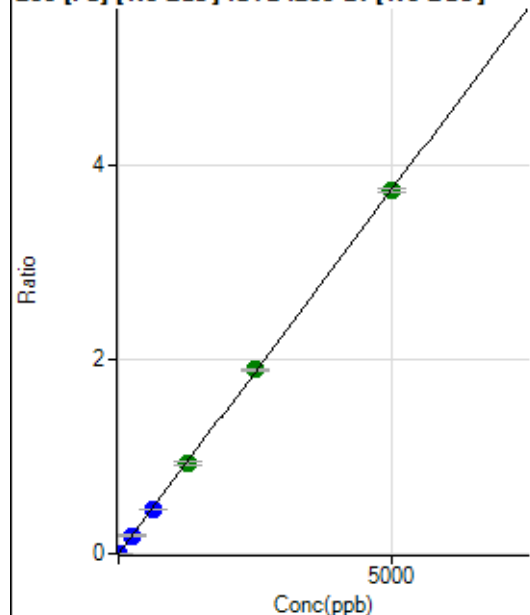
$$DL = 0.02159$$

$$BEC = 0.01395$$

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	275.94	0.0001	P	7.3
2	☐	1.000	0.973	1720.52	0.0009	P	2.3
3	☐	250.000	249.509	374644.53	0.1875	P	1.7
4	☐	625.000	611.362	950834.18	0.4592	P	2.4
5	☐	1250.000	1242.755	1939069.43	0.9333	A	2.7
6	☐	2500.000	2532.805	3934104.37	1.9020	A	1.1
7	☐	5000.000	4987.138	7769531.77	3.7449	A	1.0
8	☐			8048.90	0.0042	P	8.0

$$y = 7.5088E-004 * x + 1.3763E-004$$

$$R = 1.0000$$

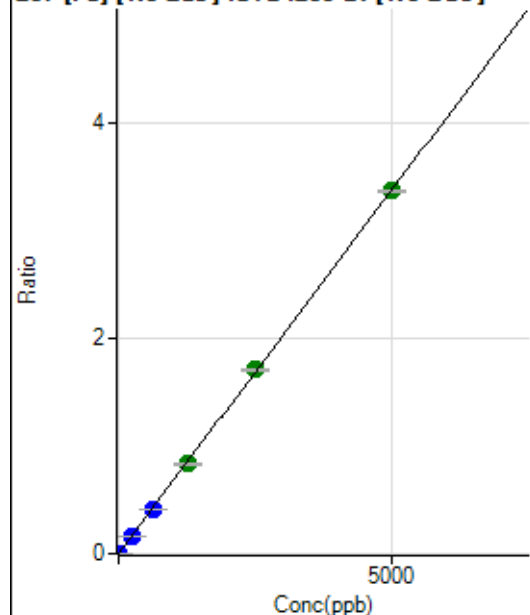
$$DL = 0.04019$$

$$BEC = 0.1833$$

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	253.71	0.0001	P	14.7
2	☐	1.000	0.928	1492.71	0.0008	P	5.0
3	☐	250.000	247.037	333753.18	0.1670	P	1.3
4	☐	625.000	603.561	844569.36	0.4079	P	2.5
5	☐	1250.000	1230.736	1728126.21	0.8316	A	0.6
6	☐	2500.000	2529.072	3534185.96	1.7087	A	1.5
7	☐	5000.000	4993.108	6999352.82	3.3733	A	0.6
8	☐			7102.10	0.0037	P	9.6

$$y = 6.7557E-004 * x + 1.2656E-004$$

$$R = 1.0000$$

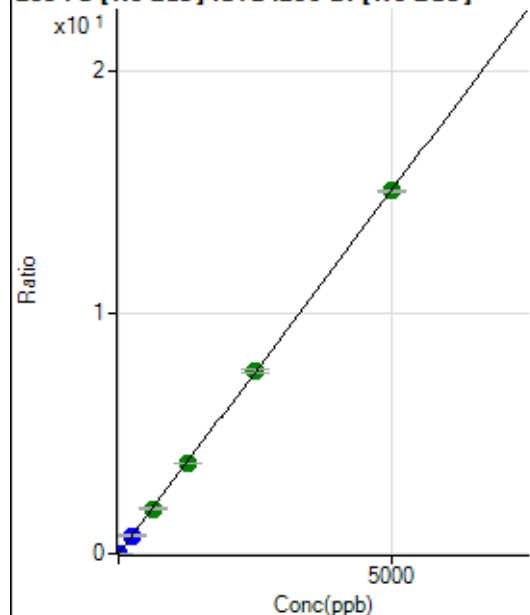
$$DL = 0.08284$$

$$BEC = 0.1873$$

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	1127.82	0.0006	P	4.3
2	☐	1.000	0.953	6806.39	0.0034	P	3.5
3	☐	250.000	249.946	1506712.25	0.7540	P	1.2
4	☐	625.000	616.181	3847163.81	1.8579	A	2.4
5	☐	1250.000	1245.832	7803998.25	3.7559	A	1.3
6	☐	2500.000	2518.414	15703003.59	7.5918	A	1.4
7	☐	5000.000	4992.940	31228354.29	15.0508	A	0.6
8	☐			32049.28	0.0168	P	8.3

$$y = 0.0030 * x + 5.6255E-004$$

$$R = 1.0000$$

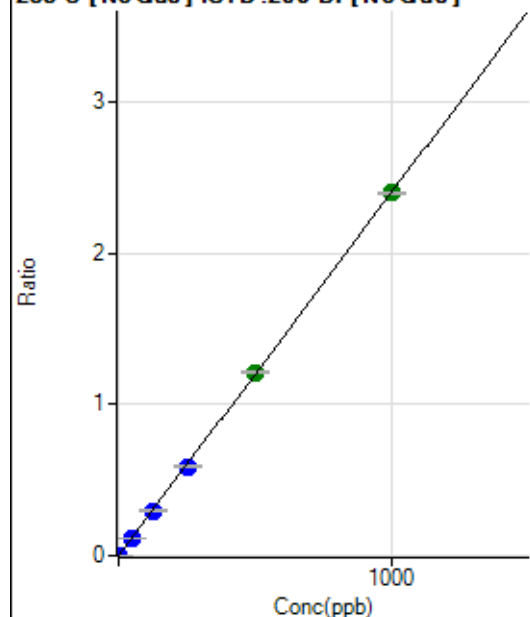
$$DL = 0.02387$$

$$BEC = 0.1866$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	8.33	0.0000	P	99.5
2	☐	1.000	0.977	4659.32	0.0024	P	6.3
3	☐	50.000	49.271	236552.07	0.1184	P	1.9
4	☐	125.000	123.034	612110.88	0.2956	P	2.3
5	☐	250.000	246.028	1228161.90	0.5911	P	1.7
6	☐	500.000	504.662	2508029.76	1.2125	A	1.6
7	☐	1000.000	998.944	4979587.52	2.4001	A	0.8
8	☐			1202.87	0.0006	P	27.3

$$y = 0.0024 * x + 4.1513E-006$$

$$R = 1.0000$$

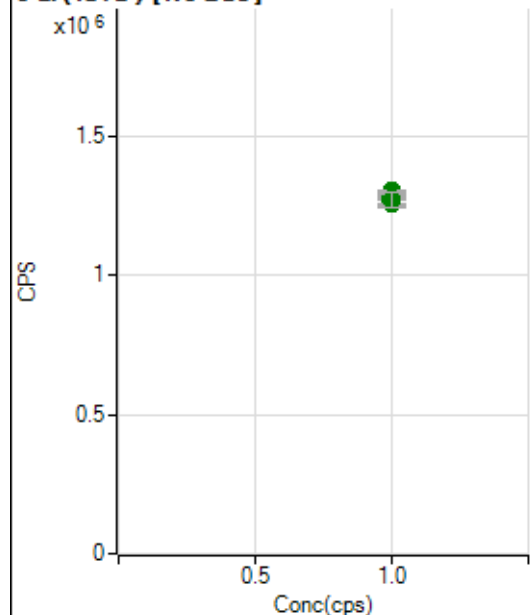
$$DL = 0.00516$$

$$BEC = 0.001728$$

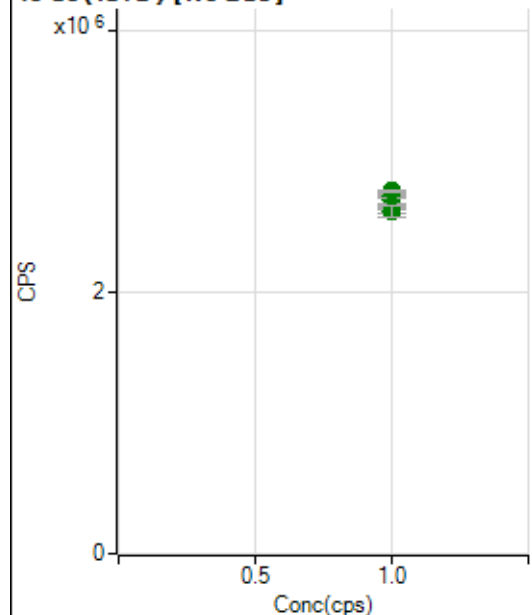
Weight: <None>

Min Conc: 0

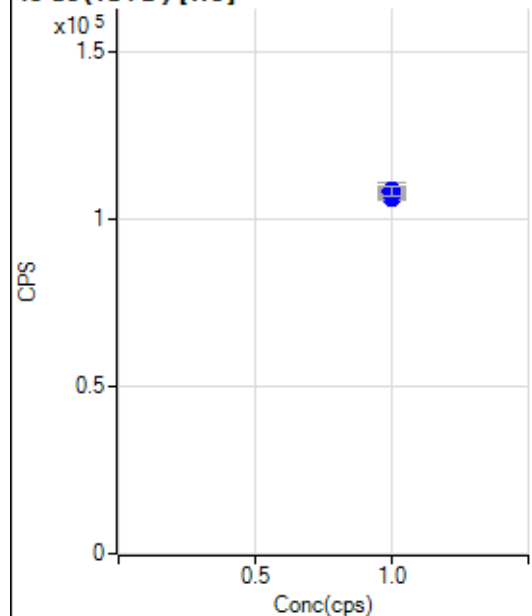
6 Li (ISTD) [No Gas]



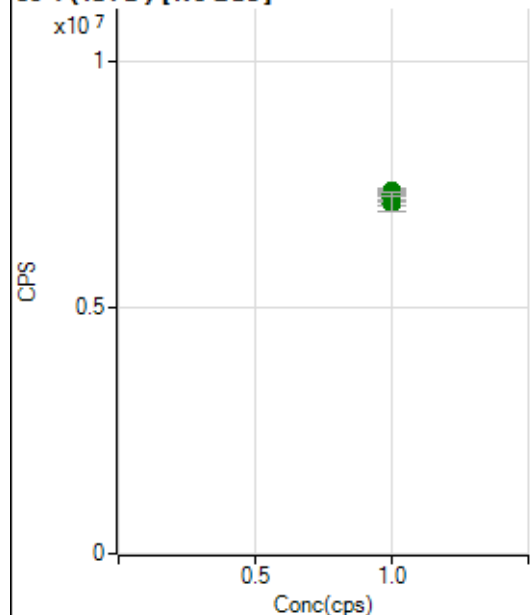
	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		1261515.84		A	1.2
2	☐	1.000		1273887.40		A	1.0
3	☐	1.000		1257588.33		A	1.7
4	☐	1.000		1292441.49		A	2.1
5	☐	1.000		1284099.66		A	1.7
6	☐	1.000		1301930.67		A	0.8
7	☐	1.000		1275802.82		A	2.6
8	☐	1.000		1268761.04		A	4.7

45 Sc (ISTD) [No Gas]

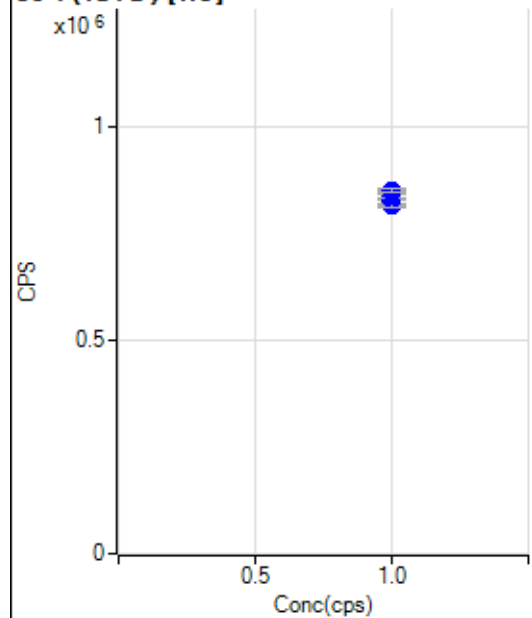
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2624427.03		A	0.9
2	☐	1.000		2628527.58		A	1.2
3	☐	1.000		2662515.15		A	0.2
4	☐	1.000		2732401.85		A	0.6
5	☐	1.000		2705536.68		A	1.4
6	☐	1.000		2744052.67		A	0.9
7	☐	1.000		2778367.95		A	0.5
8	☐	1.000		2623157.25		A	3.2

45 Sc (ISTD) [He]

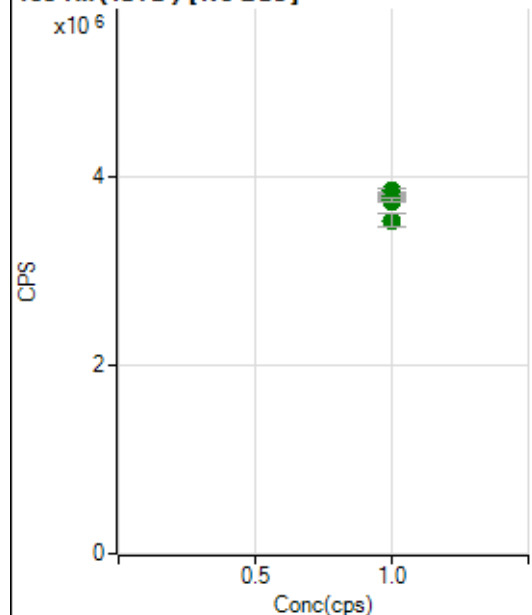
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		107199.24		P	1.7
2	☐	1.000		106335.19		P	0.7
3	☐	1.000		107451.13		P	0.5
4	☐	1.000		107503.90		P	2.9
5	☐	1.000		108066.61		P	4.7
6	☐	1.000		107279.00		P	0.9
7	☐	1.000		107885.65		P	1.3
8	☐	1.000		108304.42		P	2.4

89 Y (ISTD) [No Gas]

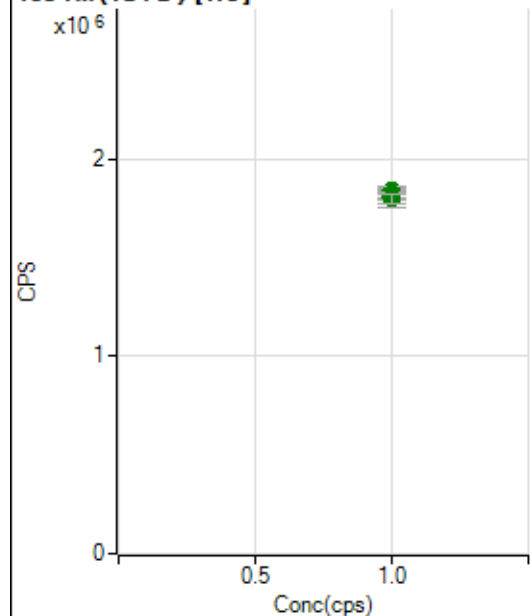
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7212923.85		A	1.1
2	☐	1.000		7179023.23		A	0.4
3	☐	1.000		7093780.66		A	1.1
4	☐	1.000		7371569.61		A	1.7
5	☐	1.000		7291956.00		A	1.1
6	☐	1.000		7333992.95		A	1.2
7	☐	1.000		7291795.93		A	1.1
8	☐	1.000		7113537.33		A	4.2

89 Y (ISTD) [He]

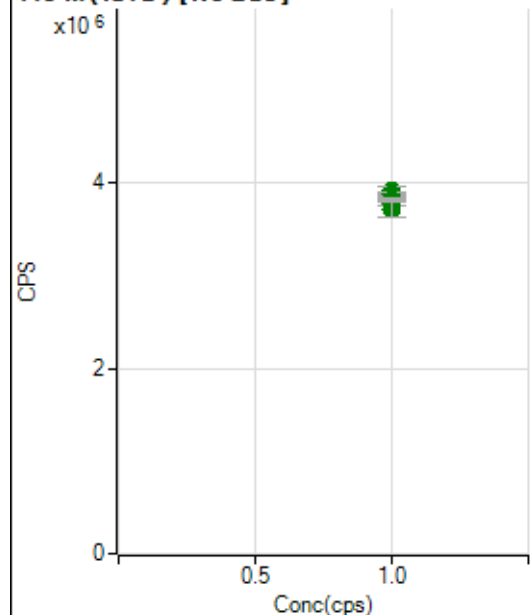
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		821876.95		P	1.7
2	☐	1.000		816446.89		P	0.8
3	☐	1.000		830292.18		P	0.2
4	☐	1.000		830378.57		P	2.5
5	☐	1.000		827643.03		P	4.2
6	☐	1.000		835845.02		P	1.2
7	☐	1.000		847380.86		P	1.2
8	☐	1.000		849405.17		P	1.2

103 Rh (ISTD) [No Gas]

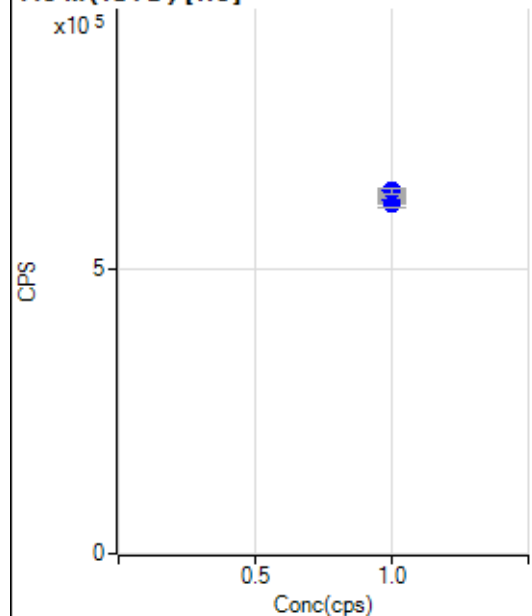
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3774806.55		A	0.4
2	☐	1.000		3742404.04		A	0.5
3	☐	1.000		3778503.86		A	1.4
4	☐	1.000		3852300.87		A	1.4
5	☐	1.000		3820163.58		A	1.0
6	☐	1.000		3791253.82		A	1.8
7	☐	1.000		3750771.26		A	1.0
8	☐	1.000		3538217.70		A	3.9

103 Rh (ISTD) [He]

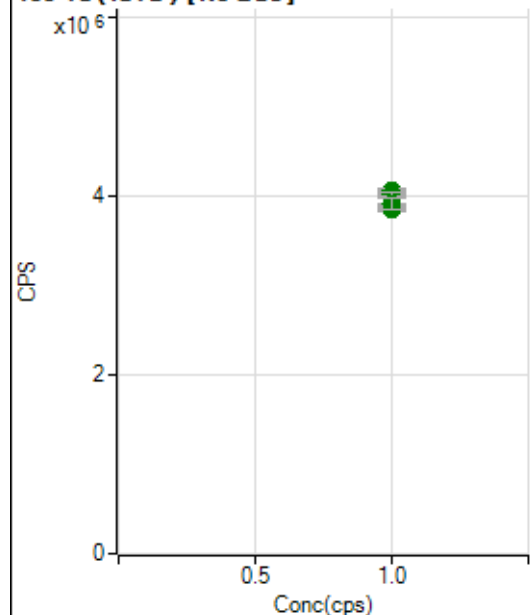
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1815844.82		A	1.0
2	☐	1.000		1823282.93		A	2.1
3	☐	1.000		1829838.03		A	0.8
4	☐	1.000		1824379.89		A	3.1
5	☐	1.000		1801768.04		A	5.1
6	☐	1.000		1837433.01		A	2.0
7	☐	1.000		1820303.45		A	1.7
8	☐	1.000		1800614.92		A	2.7

115 In (ISTD) [No Gas]

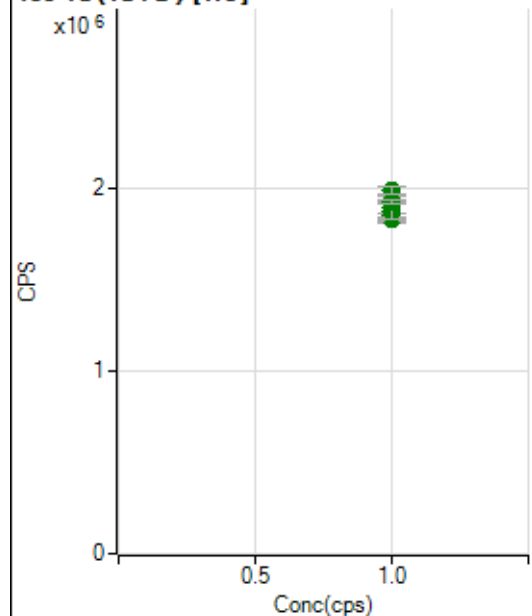
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3837646.74		A	0.4
2	☐	1.000		3773735.51		A	1.1
3	☐	1.000		3815112.90		A	0.8
4	☐	1.000		3910394.19		A	2.3
5	☐	1.000		3868380.27		A	1.2
6	☐	1.000		3874568.82		A	0.7
7	☐	1.000		3820262.57		A	0.8
8	☐	1.000		3704080.51		A	4.2

115 In (ISTD) [He]

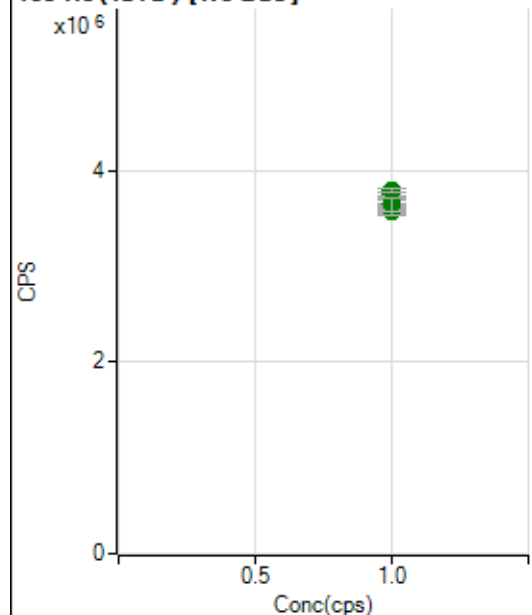
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		620341.18		P	1.5
2	☐	1.000		617501.14		P	0.6
3	☐	1.000		627756.87		P	0.2
4	☐	1.000		629625.54		P	2.3
5	☐	1.000		624123.44		P	4.9
6	☐	1.000		629732.24		P	1.1
7	☐	1.000		627717.93		P	0.8
8	☐	1.000		639026.70		P	1.6

159 Tb (ISTD) [No Gas]

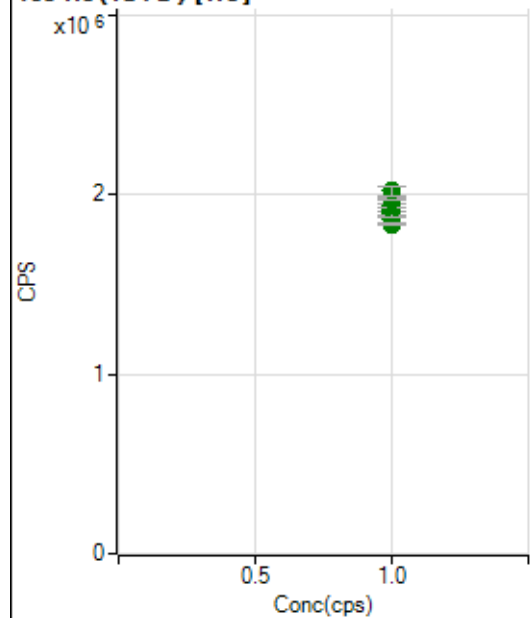
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3869740.71		A	0.7
2	☐	1.000		3834911.23		A	0.7
3	☐	1.000		3839655.85		A	0.3
4	☐	1.000		3983175.42		A	3.7
5	☐	1.000		4006568.24		A	0.8
6	☐	1.000		4051252.86		A	1.1
7	☐	1.000		4011843.94		A	1.1
8	☐	1.000		3911840.53		A	3.5

159 Tb (ISTD) [He]

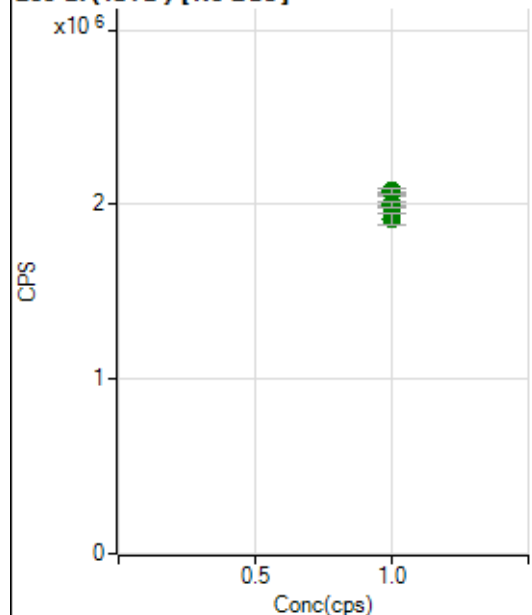
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1826599.59		A	1.7
2	☐	1.000		1824886.59		A	0.3
3	☐	1.000		1851340.20		A	1.3
4	☐	1.000		1886677.82		A	2.5
5	☐	1.000		1872949.55		A	5.0
6	☐	1.000		1930543.86		A	2.0
7	☐	1.000		1926049.00		A	1.0
8	☐	1.000		1982044.36		A	2.2

165 Ho (ISTD) [No Gas]

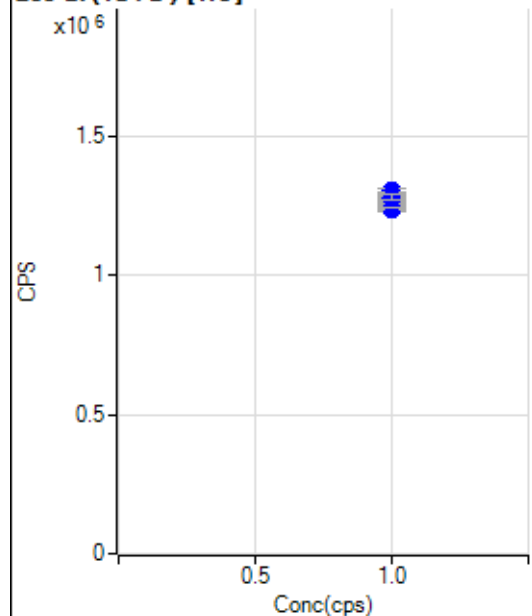
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3633774.87		A	0.4
2	☐	1.000		3584388.88		A	1.4
3	☐	1.000		3567733.37		A	1.7
4	☐	1.000		3701821.48		A	2.4
5	☐	1.000		3716718.18		A	1.3
6	☐	1.000		3762903.29		A	0.9
7	☐	1.000		3791190.10		A	0.9
8	☐	1.000		3648853.38		A	4.1

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1864967.44		A	2.2
2	☐	1.000		1835571.94		A	0.6
3	☐	1.000		1895480.86		A	1.1
4	☐	1.000		1907804.23		A	2.6
5	☐	1.000		1916837.14		A	3.9
6	☐	1.000		1937052.04		A	0.9
7	☐	1.000		1973850.49		A	0.7
8	☐	1.000		2021775.02		A	2.5

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2005167.78		A	0.8
2	☐	1.000		1981846.83		A	0.4
3	☐	1.000		1998567.75		A	1.5
4	☐	1.000		2071412.44		A	2.3
5	☐	1.000		2078057.73		A	1.8
6	☐	1.000		2068454.85		A	0.5
7	☐	1.000		2074898.23		A	1.4
8	☐	1.000		1917116.83		A	3.7

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1240607.21		P	1.2
2	☐	1.000		1239001.28		P	0.2
3	☐	1.000		1259791.88		P	0.3
4	☐	1.000		1268250.85		P	2.0
5	☐	1.000		1276952.38		P	5.1
6	☐	1.000		1303738.45		P	1.1
7	☐	1.000		1291655.14		P	1.4
8	☐	1.000		1280101.40		P	1.5

US EPA Tune Check Report

Operator Name Jaswal
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\P8111120-MS.b
Acq. Date-Time 2020-11-11 12:35:57
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		2345	23445.95			1.141	5.000
24		29449	294485.78			1.043	5.000
25		3906	39060.35			1.017	5.000
26		4442	44415.28			0.920	5.000
59		15394	153938.75			0.880	5.000
113		2232	22318.46			0.745	5.000
115		7453	74532.96			3.531	5.000
206		2112	21118.87			1.502	5.000
207		1761	17605.65			1.217	5.000
208		4364	43636.21			1.544	5.000
220		1	9.30			14.020	

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

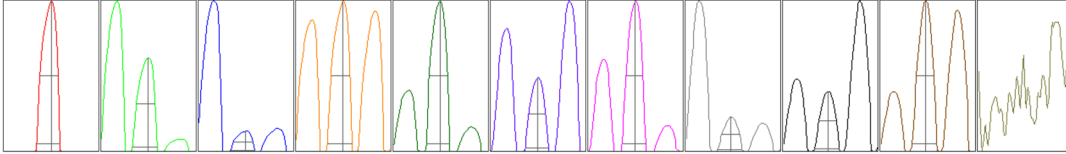
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	2350	2318	2316	2365	2374
24	29305	29077	29429	29910	29522
25	3930	3874	3854	3931	3942
26	4414	4402	4421	4478	4493
59	15360	15198	15384	15564	15464
113	2212	2218	2247	2248	2235
115	7800	7621	7378	7350	7118
206	2093	2107	2072	2139	2148
207	1746	1761	1733	1776	1786
208	4294	4368	4299	4448	4409

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	4371.57	9.05	8.90 - 9.10	
24	52460.24	24.00	23.90 - 24.10	
25	6827.57	25.00	24.90 - 25.10	
26	7860.79	26.00	25.90 - 26.10	
59	28472.37	59.00	58.90 - 59.10	
113	4449.83	113.00	112.90 - 113.10	
115	14718.87	115.00	114.90 - 115.10	
206	4023.28	205.95	205.90 - 206.10	
207	3269.62	206.95	206.90 - 207.10	
208	8327.03	207.95	207.90 - 208.10	
220			-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.57	0.734	0.900	
24	0.59	0.782	0.900	
25	0.61	0.766	0.900	
26	0.60	0.784	0.900	
59	0.57	0.735	0.900	
113	0.52	0.730	0.900	
115	0.52	0.757	0.900	
206	0.55	0.770	0.900	
207	0.56	0.779	0.900	
208	0.55	0.782	0.900	
220	0.81			

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

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

US EPA Tune Check Report

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

Lens Parameters

Extract 1	-6.0 V	Omega Lens	9.7 V	Deflect	14.0 V
Extract 2	-215.0 V	Cell Entrance	-30 V	Plate Bias	-50 V
Omega Bias	-110 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	4.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	---	OctP RF	180 V		

QP Parameters

Mass Gain	122	Axis Gain	0.9991	QP Bias	-4.0 V
Mass Offset	124	Axis Offset	-0.02		

Hardware Settings

Torch

Torch H	0.7 mm	Torch V	-0.2 mm
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EM

Discriminator	3.9 mV	Analog HV	2180 V	Pulse HV	1331 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		3648	36478.28			0.873	
89		8035	80348.40			1.348	
205		6049	60493.81			1.757	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	3687	3656	3645	3652	3599
89	8072	8062	8122	8073	7846
205	6005	6031	6083	6208	5920

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

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

Lens Parameters

Extract 1	-6.0 V	Omega Lens	9.7 V	Deflect	4.4 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	-110 V	Cell Exit	-70 V		
Cell Parameters					
Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	4.5 mL/min	OctP Bias	-18.0 V		
H2 Flow	---	OctP RF	200 V		
QP Parameters					
Mass Gain	122	Axis Gain	0.9991	QP Bias	-13.0 V
Mass Offset	124	Axis Offset	-0.02		
Hardware Settings					
Torch					
Torch H	0.7 mm	Torch V	-0.2 mm		
EM					
Discriminator	3.9 mV	Analog HV	2180 V	Pulse HV	1331 V