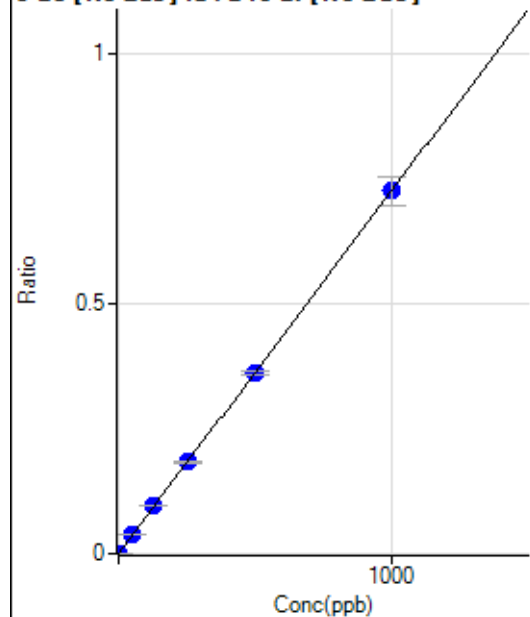


Calibration for 006CALS.d

Batch Folder: D:\Agilent\ICPMH\1\DATA\P7111723-MS1.b\
 Analysis File: P7111723-MS1.batch.bin
 DA Date-Time: 2023-11-17 11:12:14
 Calibration Title:
 Calibration Method: External Calibration
 VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.d	S00	2023-11-17 10:11:41
2	006CALS.d	S02	2023-11-17 10:18:17
3	007CALS.d	S03	2023-11-17 10:21:33
4	008CALS.d	S04	2023-11-17 10:24:44
5	009CALS.d	S05	2023-11-17 10:27:44
6	010CALS.d	S06	2023-11-17 10:30:41
7	011CALS.d	S07	2023-11-17 10:33:31
8	012CALS.d	S08	2023-11-17 10:36:20

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	72.22	0.0001	P	29.6
2	☐	1.000	0.904	706.69	0.0007	P	4.6
3	☐	50.000	53.248	36234.36	0.0386	P	2.3
4	☐	125.000	130.795	89381.32	0.0948	P	0.9
5	☐	250.000	251.893	172194.50	0.1825	P	1.4
6	☐	500.000	496.822	333196.99	0.3598	P	1.7
7	☐	1000.000	1000.229	634847.40	0.7243	P	7.7
8	☐			406.68	0.0005	P	3.7

$$y = 7.2402\text{E-}004 * x + 8.0097\text{E-}005$$

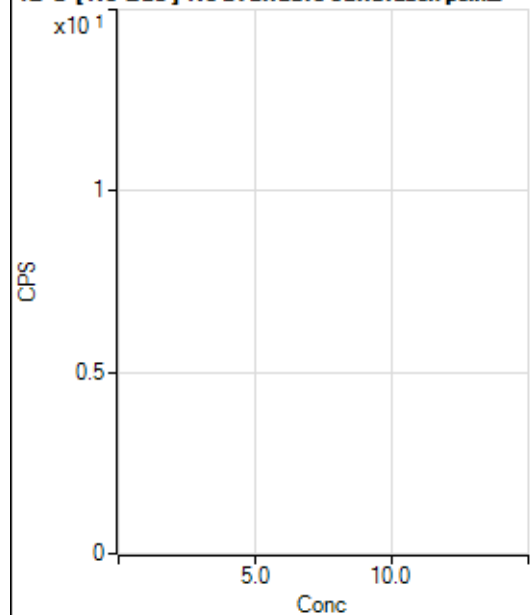
$$R = 1.0000$$

$$DL = 0.09813$$

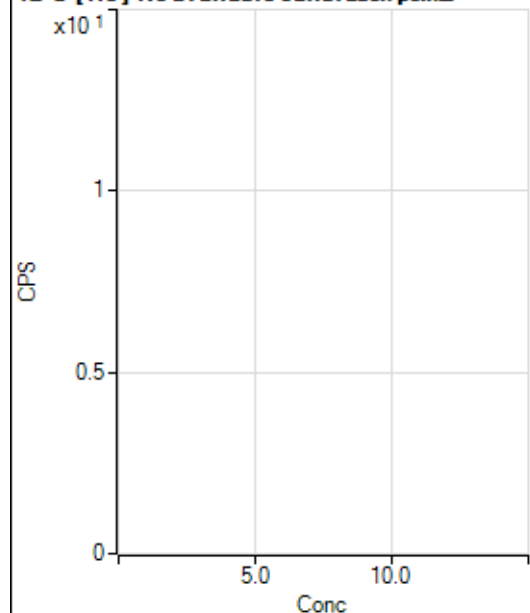
$$BEC = 0.1106$$

Weight: <None>

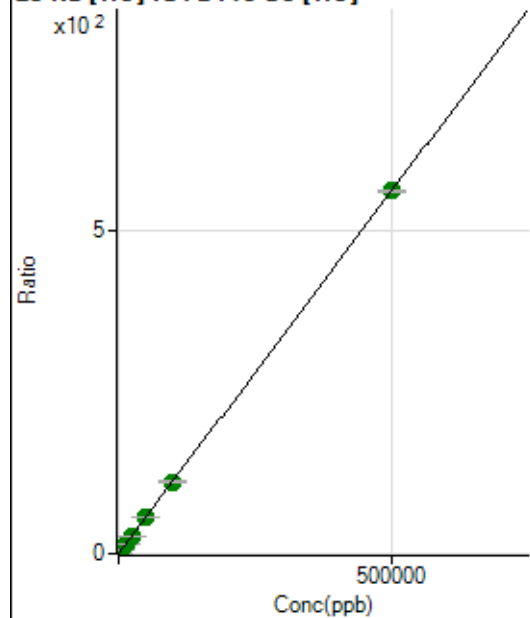
Min Conc: 0

12 C [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐						
2	☐						
3	☐						
4	☐						
5	☐						
6	☐						
7	☐						
8	☐						

12 C [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐						
2	☐						
3	☐						
4	☐						
5	☐						
6	☐						
7	☐						
8	☐						

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	6778.21	0.0297	P	1.6
2	☐	500.000	466.907	122126.07	0.5537	P	5.9
3	☐	5000.000	5008.974	1281480.18	5.6511	A	1.0
4	☐	12500.000	12552.579	3086366.41	14.1170	A	0.5
5	☐	25000.000	25047.181	6037332.06	28.1392	A	0.8
6	☐	50000.000	49719.349	11847224.41	55.8279	A	1.3
7	☐	100000.00	99314.887	23222679.65	111.4873	A	0.3
8	☐	500000.00	500161.35	108429291.7	561.3431	A	0.2

$$y = 0.0011 * x + 0.0297$$

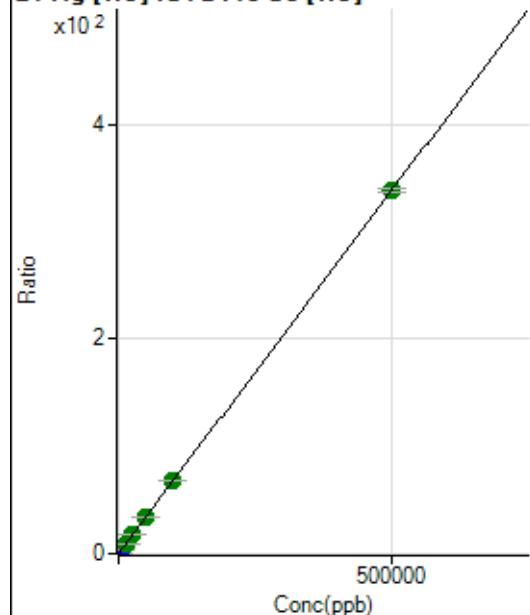
$$R = 1.0000$$

$$DL = 1.234$$

$$BEC = 26.45$$

Weight: <None>

Min Conc: 0

24 Mg [He] ISTD:45 Sc [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	486.68	0.0021	P	10.4
2	☐	500.000	477.205	71753.86	0.3252	P	5.4
3	☐	5000.000	5235.419	804355.53	3.5470	P	0.7
4	☐	12500.000	13044.788	1931471.83	8.8348	A	1.2
5	☐	25000.000	25855.041	3756479.95	17.5086	A	1.3
6	☐	50000.000	50488.830	7255181.07	34.1881	A	0.9
7	☐	100000.00	100603.04	14189231.59	68.1205	A	0.5
8	☐	500000.00	499771.80	65365879.03	338.3976	A	0.9

$$y = 6.7710\text{E-}004 * x + 0.0021$$

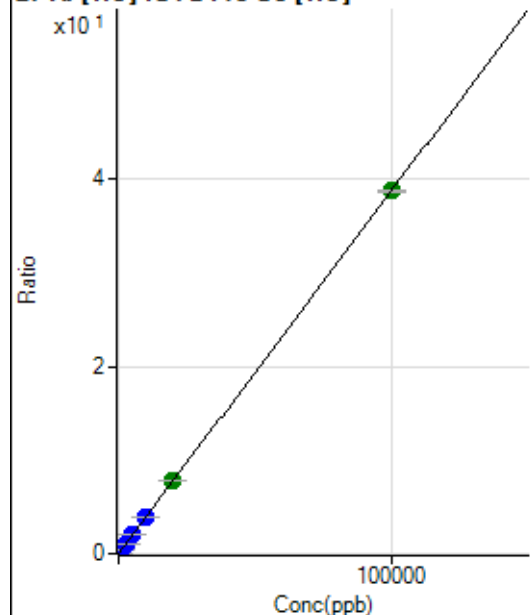
$$R = 1.0000$$

$$DL = 0.9791$$

$$BEC = 3.146$$

Weight: <None>

Min Conc: 0

27 Al [He] ISTD:45 Sc [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	101.11	0.0004	P	10.9
2	☐	20.000	18.151	1648.99	0.0075	P	8.0
3	☐	1000.000	1027.131	90371.56	0.3985	P	0.6
4	☐	2500.000	2590.639	219601.73	1.0045	P	0.3
5	☐	5000.000	5176.455	430503.65	2.0066	P	0.5
6	☐	10000.000	10107.035	831342.59	3.9175	P	0.4
7	☐	20000.000	20066.374	1619996.30	7.7773	A	1.1
8	☐	100000.00	99964.662	7483649.12	38.7425	A	0.7

$$y = 3.8756\text{E-}004 * x + 4.4281\text{E-}004$$

$$R = 1.0000$$

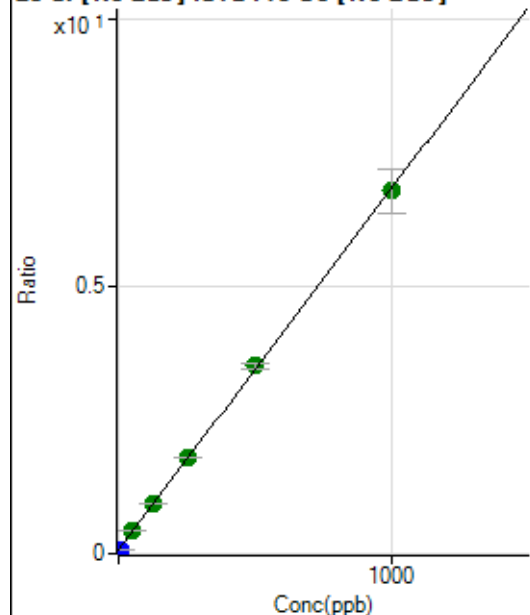
$$DL = 0.3751$$

$$BEC = 1.143$$

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	195316.27	0.0723	P	7.7
2	☐	10.000	-0.089	206996.59	0.0717	P	1.4
3	☐	50.000	53.687	1253426.81	0.4355	A	0.2
4	☐	125.000	129.699	2683527.13	0.9498	A	0.6
5	☐	250.000	255.546	4965370.03	1.8013	A	0.6
6	☐	500.000	509.380	9304735.90	3.5188	A	3.4
7	☐	1000.000	993.253	17314059.33	6.7928	A	12.1
8	☐			224106.57	0.0897	P	2.7

$$y = 0.0068 * x + 0.0723$$

$$R = 0.9998$$

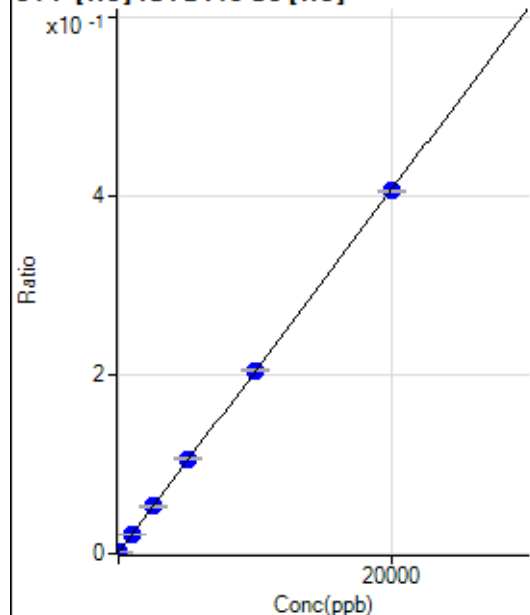
$$DL = 2.479$$

$$BEC = 10.68$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	-16.135	193.34	0.0008	P	10.8
2	☐	0.000	16.135	331.12	0.0015	P	5.9
3	☐	1000.000	995.107	4839.71	0.0213	P	1.0
4	☐	2500.000	2557.431	11587.81	0.0530	P	3.2
5	☐	5000.000	5139.995	22598.98	0.1053	P	2.0
6	☐	10000.000	10047.679	43460.41	0.2048	P	0.9
7	☐	20000.000	19934.227	84394.19	0.4052	P	0.5
8	☐			166.67	0.0009	P	21.9

$$y = 2.0266E-005 * x + 0.0012$$

$$R = 1.0000$$

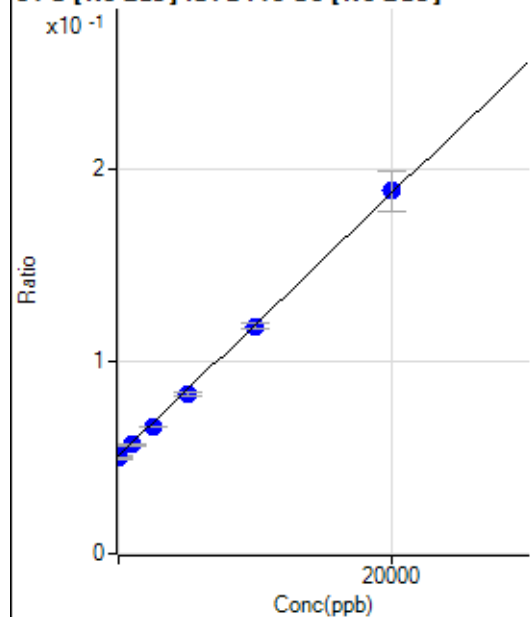
$$DL = 13.32$$

$$BEC = 57.92$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	184.685	140919.15	0.0521	P	6.6
2	☐	0.000	-184.685	143252.64	0.0496	P	1.3
3	☐	1000.000	828.749	162607.87	0.0565	P	2.1
4	☐	2500.000	2258.159	187175.71	0.0663	P	0.2
5	☐	5000.000	4672.160	227942.73	0.0827	P	1.6
6	☐	10000.000	9890.211	312703.50	0.1182	P	2.1
7	☐	20000.000	20175.647	480238.98	0.1883	P	11.4
8	☐			122466.86	0.0491	P	1.9

$$y = 6.8121\text{E-}006 * x + 0.0509$$

$$R = 0.9997$$

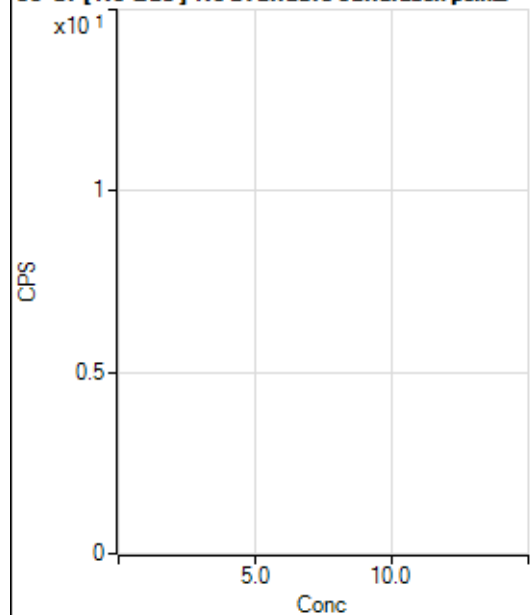
$$DL = 894.4$$

$$BEC = 7467$$

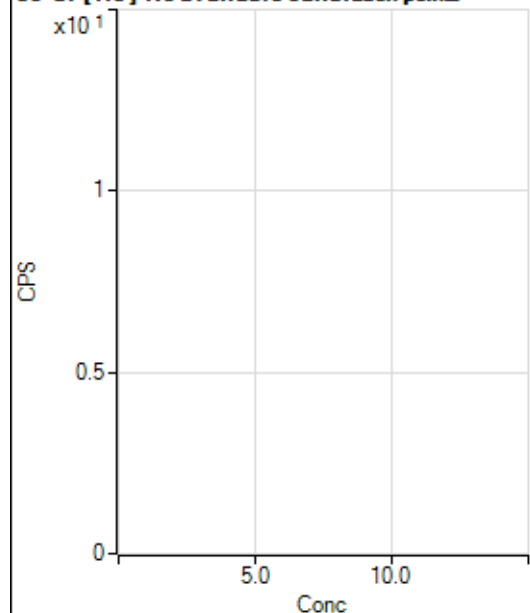
Weight: <None>

Min Conc: 0

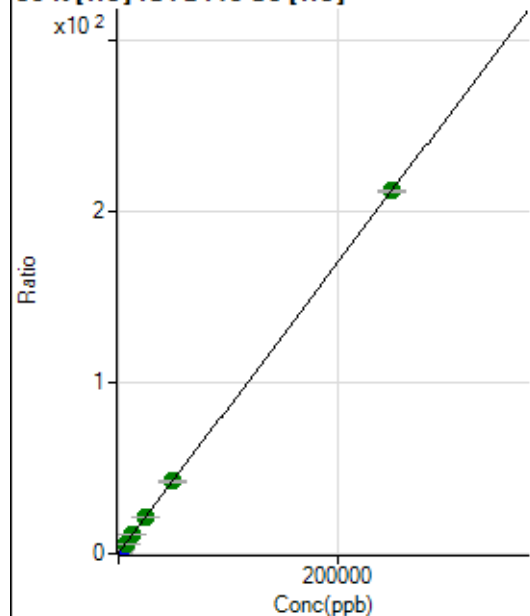
35 Cl [No Gas] No available calibration points



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐						
2	☐						
3	☐						
4	☐						
5	☐						
6	☐						
7	☐						
8	☐						

35 Cl [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐						
2	☐						
3	☐						
4	☐						
5	☐						
6	☐						
7	☐						
8	☐						

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	43323.74	0.1897	P	0.8
2	☐	500.000	483.917	132355.96	0.6002	P	6.6
3	☐	2500.000	2639.702	550823.50	2.4290	P	0.7
4	☐	6250.000	6256.415	1201819.75	5.4971	A	0.4
5	☐	12500.000	12631.323	2339574.44	10.9051	A	1.0
6	☐	25000.000	24879.059	4519119.45	21.2951	A	0.5
7	☐	50000.000	49569.188	8798550.21	42.2402	A	0.3
8	☐	250000.00	250090.16	41017436.61	212.3459	A	0.7

$$y = 8.4832E-004 * x + 0.1897$$

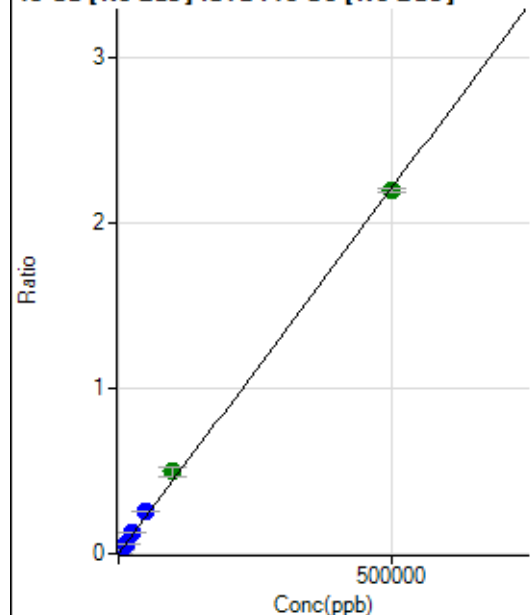
$$R = 1.0000$$

$$DL = 5.362$$

$$BEC = 223.6$$

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	358.90	0.0001	P	15.3
2	☐	500.000	448.086	6096.83	0.0021	P	0.4
3	☐	5000.000	5700.389	72796.67	0.0253	P	1.7
4	☐	12500.000	14231.428	177871.12	0.0630	P	0.4
5	☐	25000.000	28551.725	347778.29	0.1262	P	1.6
6	☐	50000.000	58095.266	678570.26	0.2566	P	2.5
7	☐	100000.00	112269.97	1264614.57	0.4958	A	11.1
8	☐	500000.00	496508.65	5473432.56	2.1920	A	0.9

$$y = 4.4145\text{E-}006 * x + 1.3314\text{E-}004$$

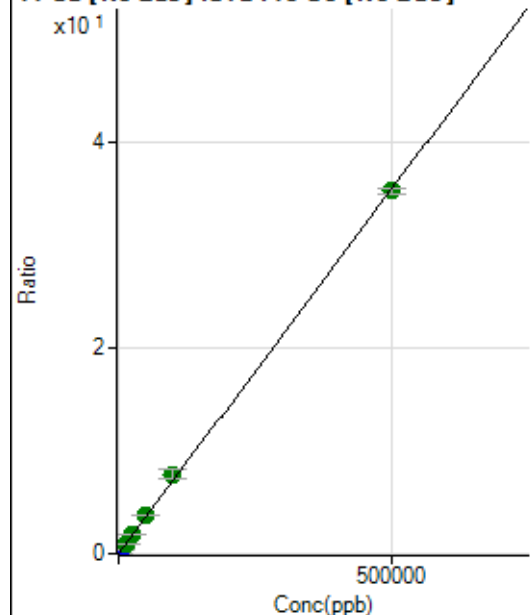
$$R = 0.9996$$

$$DL = 13.85$$

$$BEC = 30.16$$

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	9028.57	0.0033	P	5.2
2	☐	500.000	460.942	103846.71	0.0360	P	1.2
3	☐	5000.000	5447.267	1118984.95	0.3889	P	1.8
4	☐	12500.000	13082.922	2625671.49	0.9293	A	0.9
5	☐	25000.000	26180.346	5116911.45	1.8563	A	0.8
6	☐	50000.000	53198.118	9966355.40	3.7686	A	2.5
7	☐	100000.00	108784.06	19637155.68	7.7029	A	11.9
8	☐	500000.00	497845.35	87990065.35	35.2402	A	1.5

$$y = 7.0779\text{E-}005 * x + 0.0033$$

$$R = 0.9998$$

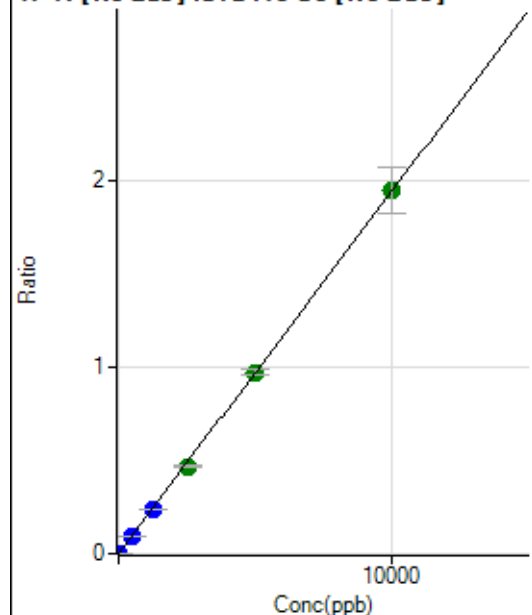
$$DL = 7.403$$

$$BEC = 47.16$$

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	90.00	0.0000	P	25.8
2	☐	5.000	4.274	2496.90	0.0009	P	2.3
3	☐	500.000	489.627	274106.96	0.0953	P	1.7
4	☐	1250.000	1229.314	675574.78	0.2391	P	0.4
5	☐	2500.000	2407.789	1290772.92	0.4683	A	2.4
6	☐	5000.000	5010.985	2577395.31	0.9746	A	2.5
7	☐	10000.000	10020.665	4965425.83	1.9489	A	12.7
8	☐			1000.04	0.0004	P	10.3

$$y = 1.9449\text{E-}004 * x + 3.3495\text{E-}005$$

$$R = 1.0000$$

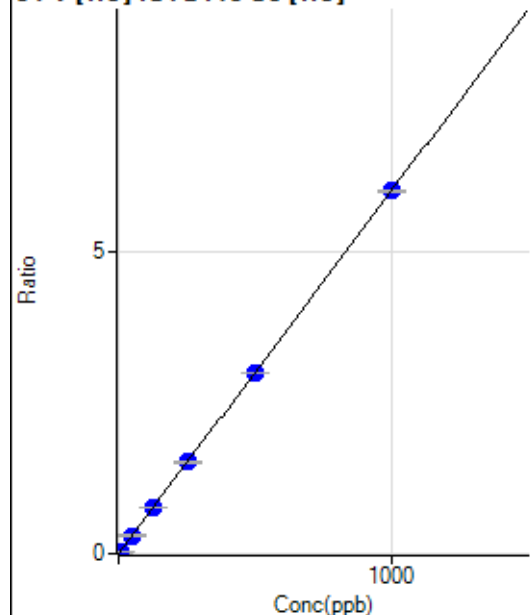
$$DL = 0.1335$$

$$BEC = 0.1722$$

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	24.44	0.0001	P	47.4
2	☐	5.000	4.565	6056.82	0.0275	P	7.1
3	☐	50.000	50.290	68379.41	0.3015	P	0.4
4	☐	125.000	126.580	165891.46	0.7588	P	0.8
5	☐	250.000	252.845	325156.68	1.5156	P	1.0
6	☐	500.000	498.892	634591.96	2.9904	P	0.5
7	☐	1000.000	999.633	1248065.03	5.9917	P	0.5
8	☐			264.45	0.0014	P	20.9

$$y = 0.0060 * x + 1.0686\text{E-}004$$

$$R = 1.0000$$

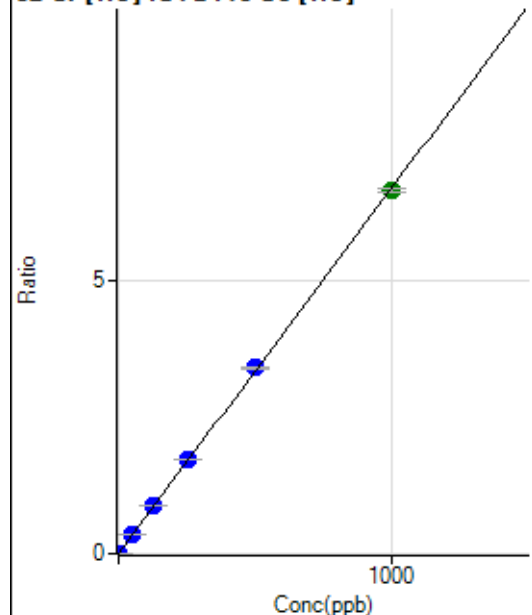
$$DL = 0.02536$$

$$BEC = 0.01783$$

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	648.91	0.0028	P	14.6
2	☐	2.000	1.908	3421.53	0.0156	P	13.7
3	☐	50.000	52.000	79232.16	0.3494	P	0.5
4	☐	125.000	130.388	190594.46	0.8718	P	0.3
5	☐	250.000	258.427	370108.65	1.7251	P	0.3
6	☐	500.000	508.075	719156.75	3.3888	P	0.2
7	☐	1000.000	993.082	1379172.27	6.6211	A	1.1
8	☐			3816.10	0.0198	P	2.7

$$y = 0.0067 * x + 0.0028$$

$$R = 0.9999$$

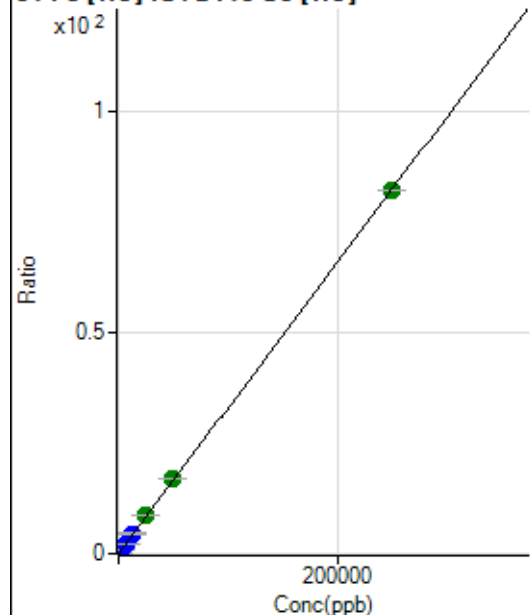
$$DL = 0.1873$$

$$BEC = 0.4264$$

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	1134.50	0.0050	P	6.5
2	☐	50.000	50.751	4788.59	0.0217	P	3.7
3	☐	2500.000	2788.135	209440.49	0.9236	P	0.5
4	☐	6250.000	6951.231	501787.80	2.2951	P	1.2
5	☐	12500.000	13833.242	978841.81	4.5625	P	0.8
6	☐	25000.000	26207.280	1833352.25	8.6393	A	0.8
7	☐	50000.000	51628.853	3544228.35	17.0147	A	1.2
8	☐	250000.00	249466.42	15876773.37	82.1948	A	0.1

$$y = 3.2946E-004 * x + 0.0050$$

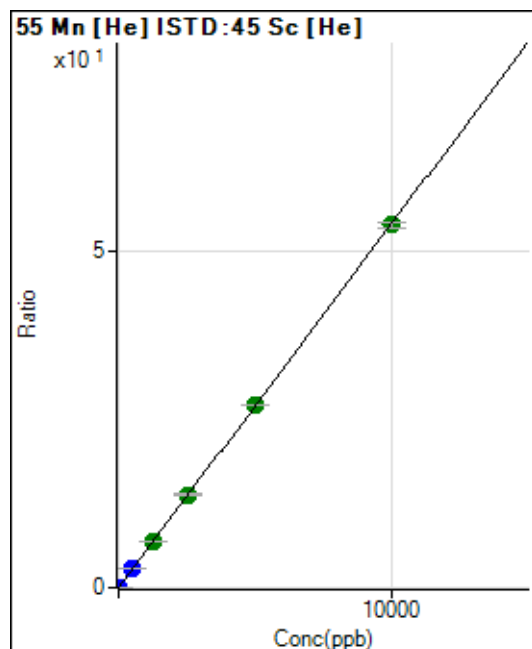
$$R = 1.0000$$

$$DL = 2.942$$

$$BEC = 15.08$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	127.78	0.0006	P	8.4
2	☐	1.000	0.883	1175.61	0.0053	P	3.6
3	☐	500.000	509.945	623961.28	2.7515	P	0.8
4	☐	1250.000	1266.378	1493726.80	6.8322	A	1.2
5	☐	2500.000	2561.456	2964650.27	13.8188	A	1.1
6	☐	5000.000	5026.132	5754152.55	27.1149	A	0.7
7	☐	10000.000	9969.026	11202293.58	53.7801	A	1.3
8	☐			5067.56	0.0262	P	5.1

$$y = 0.0054 * x + 5.5963E-004$$

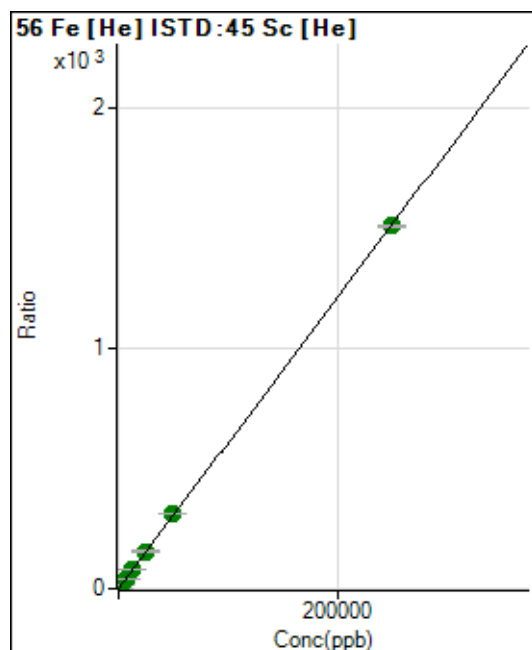
$$R = 1.0000$$

$$DL = 0.02626$$

$$BEC = 0.1037$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	7665.35	0.0336	P	3.4
2	☐	50.000	50.377	74484.29	0.3377	P	6.4
3	☐	2500.000	2653.041	3640373.31	16.0530	A	0.4
4	☐	6250.000	6615.540	8740390.15	39.9790	A	1.2
5	☐	12500.000	13256.060	17179201.27	80.0753	A	1.2
6	☐	25000.000	25753.473	33006776.73	155.5363	A	0.4
7	☐	50000.000	51392.698	64644202.37	310.3491	A	0.7
8	☐	250000.00	249597.64	291114262.3	1,507.135	A	0.9

$$y = 0.0060 * x + 0.0336$$

$$R = 1.0000$$

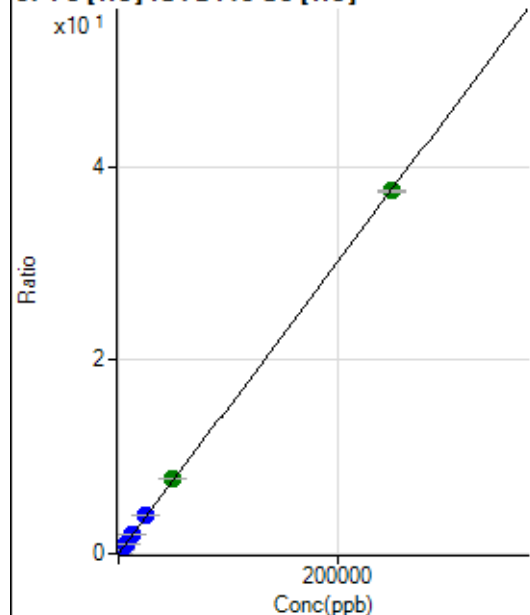
$$DL = 0.568$$

$$BEC = 5.559$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	414.46	0.0018	P	10.7
2	☐	50.000	48.980	2017.94	0.0092	P	13.6
3	☐	2500.000	2736.911	93680.50	0.4131	P	0.3
4	☐	6250.000	6904.910	227246.80	1.0394	P	0.8
5	☐	12500.000	13648.926	440423.00	2.0529	P	1.2
6	☐	25000.000	26880.879	857613.98	4.0413	P	0.8
7	☐	50000.000	51726.835	1619495.58	7.7750	A	0.9
8	☐	250000.00	249390.35	7239533.92	37.4788	A	0.7

$$y = 1.5027E-004 * x + 0.0018$$

$$R = 1.0000$$

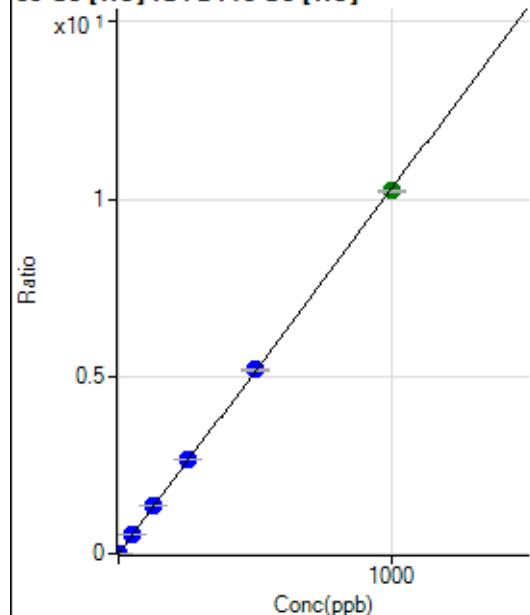
$$DL = 3.89$$

$$BEC = 12.07$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	46.67	0.0002	P	58.7
2	☐	1.000	0.992	2295.75	0.0104	P	7.3
3	☐	50.000	52.292	122030.98	0.5381	P	0.5
4	☐	125.000	130.306	293079.41	1.3406	P	0.3
5	☐	250.000	258.214	569875.78	2.6563	P	0.9
6	☐	500.000	504.712	1101766.37	5.1918	P	0.7
7	☐	1000.000	994.813	2131529.19	10.2331	A	0.4
8	☐			5700.03	0.0295	P	3.3

$$y = 0.0103 * x + 2.0443E-004$$

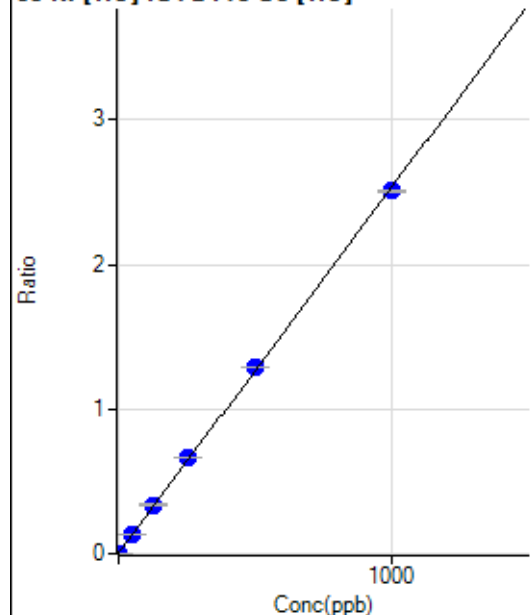
$$R = 0.9999$$

$$DL = 0.03502$$

$$BEC = 0.01987$$

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	566.68	0.0025	P	5.2
2	☐	1.000	0.768	974.49	0.0044	P	9.1
3	☐	50.000	53.391	31174.60	0.1375	P	0.6
4	☐	125.000	132.725	73905.32	0.3380	P	0.8
5	☐	250.000	262.941	143156.78	0.6673	P	0.4
6	☐	500.000	509.436	273855.03	1.2905	P	0.3
7	☐	1000.000	990.912	522367.76	2.5078	P	0.5
8	☐			1851.24	0.0096	P	2.8

$$y = 0.0025 * x + 0.0025$$

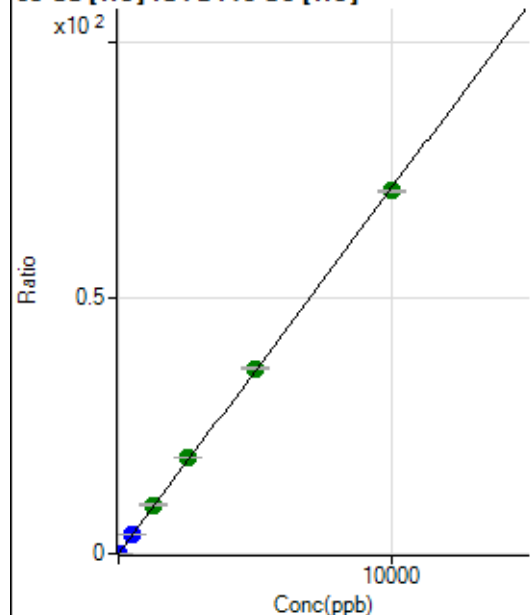
$$R = 0.9998$$

$$DL = 0.1521$$

$$BEC = 0.9815$$

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	1344.52	0.0059	P	1.5
2	☐	2.000	1.795	4135.05	0.0187	P	2.7
3	☐	500.000	519.072	842873.59	3.7168	P	0.4
4	☐	1250.000	1332.918	2084566.32	9.5351	A	1.7
5	☐	2500.000	2625.233	4027801.50	18.7741	A	0.7
6	☐	5000.000	5063.525	7683298.56	36.2058	A	0.9
7	☐	10000.000	9925.611	14781783.67	70.9656	A	0.5
8	☐			4734.13	0.0245	P	5.5

$$y = 0.0071 * x + 0.0059$$

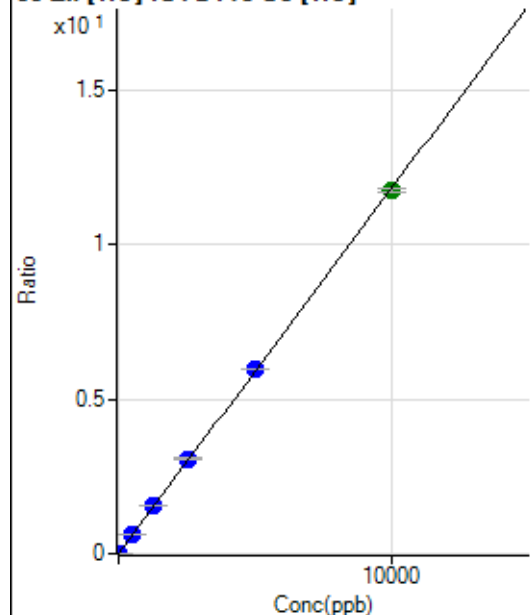
$$R = 0.9999$$

$$DL = 0.03589$$

$$BEC = 0.8235$$

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	185.56	0.0008	P	22.8
2	☐	2.000	1.944	684.47	0.0031	P	11.7
3	☐	500.000	527.862	141481.28	0.6239	P	0.4
4	☐	1250.000	1322.362	341422.00	1.5617	P	0.6
5	☐	2500.000	2600.594	658753.17	3.0705	P	0.5
6	☐	5000.000	5061.785	1268106.43	5.9756	P	0.4
7	☐	10000.000	9933.521	2442497.72	11.7261	A	1.1
8	☐			2400.22	0.0124	P	2.1

$$y = 0.0012 * x + 8.1286E-004$$

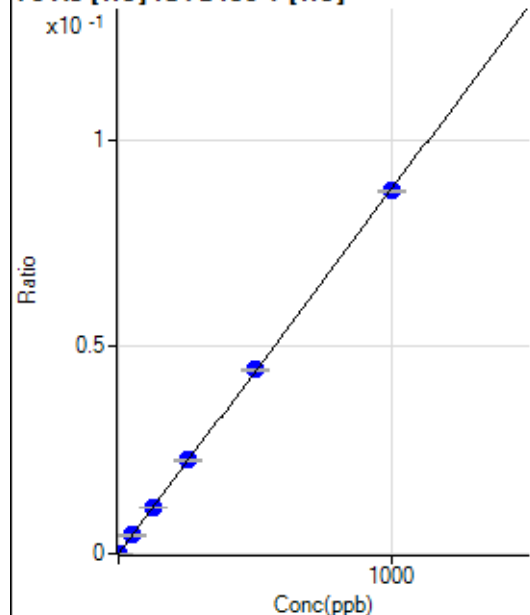
$$R = 0.9999$$

$$DL = 0.4709$$

$$BEC = 0.6886$$

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	2.22	0.0000	P	173.
2	☐	1.000	0.842	155.56	0.0001	P	1.4
3	☐	50.000	50.603	9435.30	0.0045	P	2.0
4	☐	125.000	127.240	23519.80	0.0112	P	2.3
5	☐	250.000	257.261	46037.86	0.0227	P	1.1
6	☐	500.000	505.008	89557.99	0.0445	P	0.9
7	☐	1000.000	995.371	174363.99	0.0877	P	0.4
8	☐			77.78	0.0000	P	38.0

$$y = 8.8125E-005 * x + 1.0548E-006$$

$$R = 1.0000$$

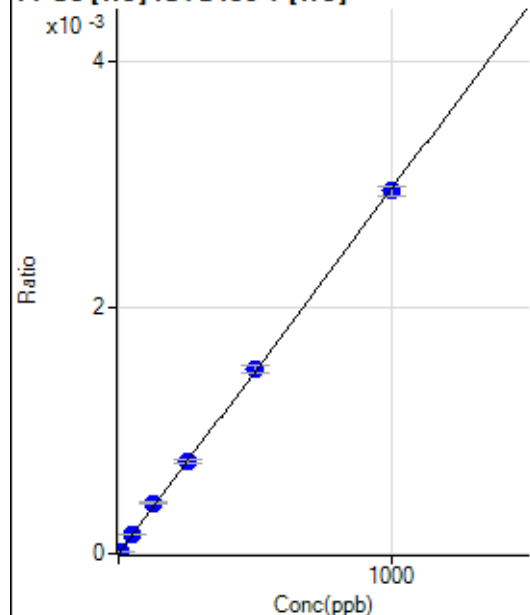
$$DL = 0.0622$$

$$BEC = 0.01197$$

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	0.00	0.0000	P	
2	☐	5.000	4.406	26.66	0.0000	P	28.5
3	☐	50.000	52.689	330.01	0.0002	P	8.6
4	☐	125.000	138.197	858.92	0.0004	P	2.4
5	☐	250.000	252.677	1520.09	0.0007	P	3.2
6	☐	500.000	505.595	3013.67	0.0015	P	4.8
7	☐	1000.000	994.752	5856.76	0.0029	P	2.5
8	☐			34.44	0.0000	P	22.0

$$y = 2.9619\text{E-}006 * x + 0.0000\text{E+}000$$

$$R = 0.9999$$

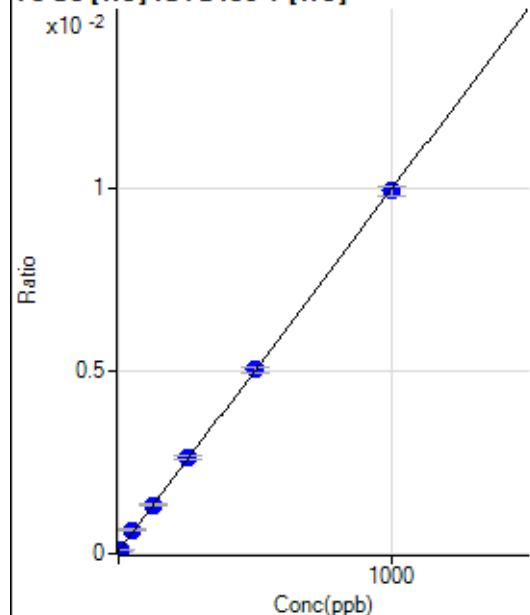
$$DL = 0$$

$$BEC = 0$$

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	147.78	0.0001	P	21.8
2	☐	5.000	4.364	231.12	0.0001	P	10.4
3	☐	50.000	58.436	1366.75	0.0006	P	6.2
4	☐	125.000	128.437	2804.74	0.0013	P	6.6
5	☐	250.000	258.308	5322.12	0.0026	P	3.5
6	☐	500.000	502.405	10126.88	0.0050	P	2.9
7	☐	1000.000	995.872	19692.03	0.0099	P	2.5
8	☐			244.45	0.0001	P	13.4

$$y = 9.8780\text{E-}006 * x + 6.9048\text{E-}005$$

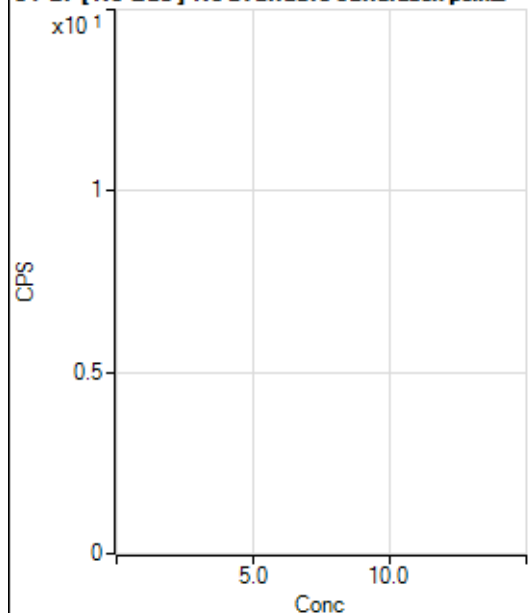
$$R = 0.9999$$

$$DL = 4.569$$

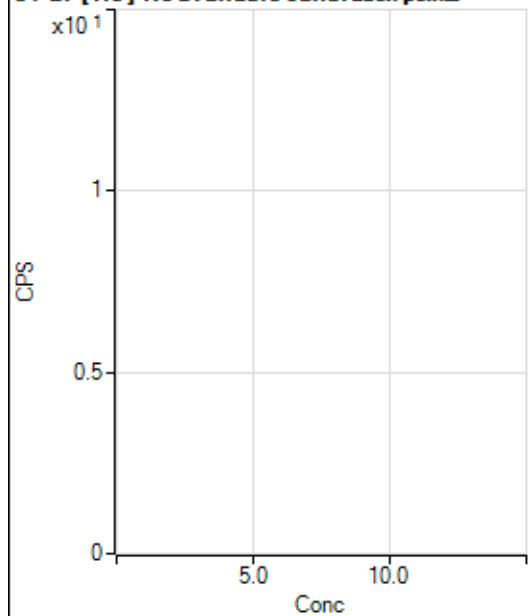
$$BEC = 6.99$$

Weight: <None>

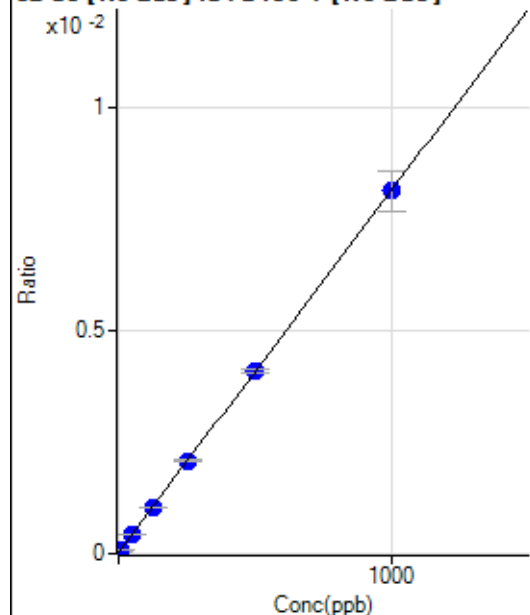
Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			24625.10		P	1.6
2	☐			24620.63		P	0.7
3	☐			24913.33		P	1.1
4	☐			23505.49		P	0.5
5	☐			22926.80		P	2.2
6	☐			22211.26		P	0.2
7	☐			22380.40		P	1.0
8	☐			22827.74		P	4.2

81 Br [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			68.89		P	43.4
2	☐			81.11		P	22.6
3	☐			75.56		P	16.7
4	☐			68.89		P	22.9
5	☐			55.56		P	9.2
6	☐			75.56		P	13.5
7	☐			64.44		P	31.2
8	☐			166.67		P	10.4

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	258.77	0.0000	P	9.7
2	☐	5.000	5.138	658.91	0.0001	P	7.9
3	☐	50.000	51.431	4120.69	0.0004	P	1.1
4	☐	125.000	125.604	9565.67	0.0010	P	0.6
5	☐	250.000	253.903	18765.46	0.0021	P	1.2
6	☐	500.000	501.077	35718.49	0.0041	P	1.4
7	☐	1000.000	998.338	68105.98	0.0081	P	11.2
8	☐			688.46	0.0001	P	0.9

$$y = 8.1008\text{E-}006 * x + 2.9521\text{E-}005$$

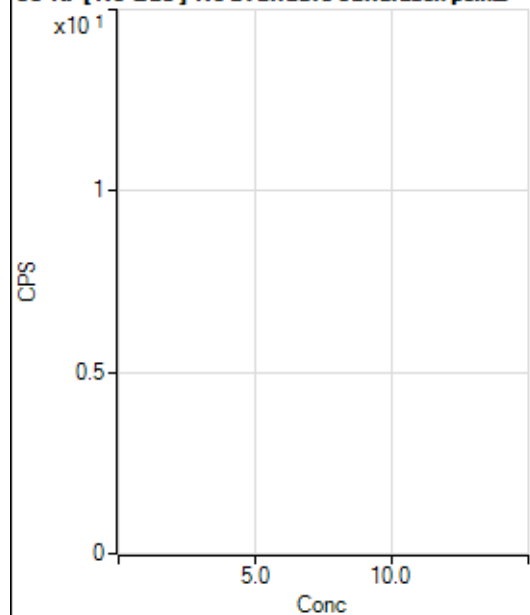
$$R = 1.0000$$

$$DL = 1.064$$

$$BEC = 3.644$$

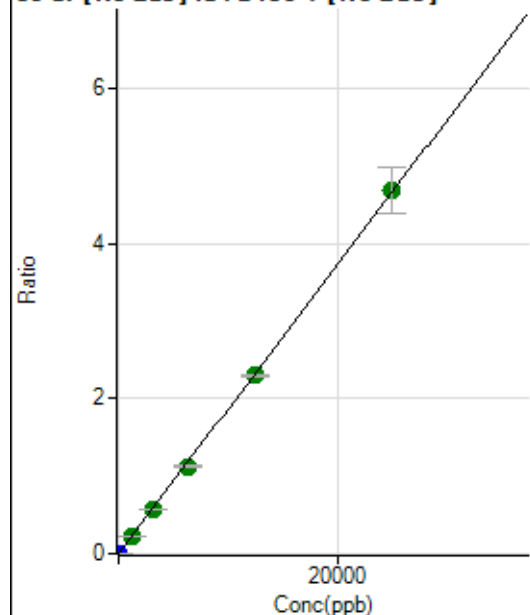
Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			95.56		P	17.6
2	☐			74.44		P	24.7
3	☐			117.78		P	11.8
4	☐			92.22		P	36.9
5	☐			77.78		P	6.5
6	☐			90.00		P	24.3
7	☐			110.00		P	3.0
8	☐			103.33		P	9.7

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	176.67	0.0000	P	17.4
2	☐	1.000	0.796	1557.88	0.0002	P	1.4
3	☐	1250.000	1218.458	2091891.74	0.2265	A	0.8
4	☐	3125.000	3067.647	5209576.80	0.5702	A	0.2
5	☐	6250.000	6056.911	10125714.22	1.1258	A	1.3
6	☐	12500.000	12330.310	20020056.37	2.2918	A	1.9
7	☐	25000.000	25141.864	39166710.53	4.6730	A	12.7
8	☐			6610.46	0.0008	P	13.9

$$y = 1.8587E-004 * x + 2.0217E-005$$

$$R = 0.9999$$

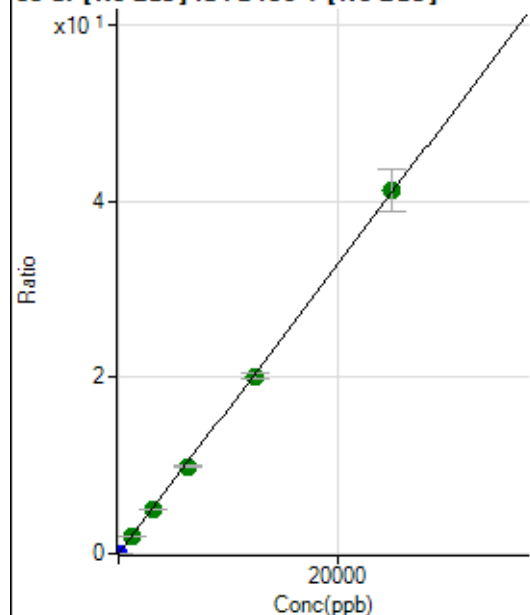
$$DL = 0.05676$$

$$BEC = 0.1088$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	234.45	0.0000	P	6.6
2	☐	1.000	0.829	12831.25	0.0014	P	3.7
3	☐	1250.000	1209.631	18316940.98	1.9832	A	1.2
4	☐	3125.000	3038.739	45512761.54	4.9820	A	1.5
5	☐	6250.000	6041.984	89091088.67	9.9058	A	2.0
6	☐	12500.000	12323.525	176474726.2	20.2044	A	3.2
7	☐	25000.000	25153.043	345900337.0	41.2383	A	11.6
8	☐			58044.81	0.0071	P	13.9

$$y = 0.0016 * x + 2.6713E-005$$

$$R = 0.9999$$

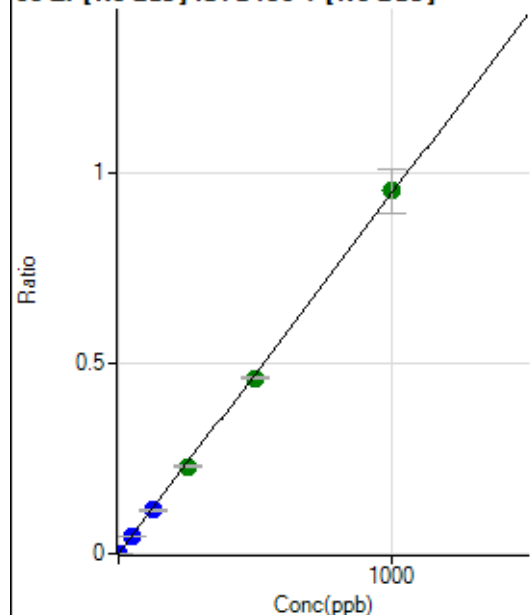
$$DL = 0.003244$$

$$BEC = 0.01629$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	324.45	0.0000	P	6.7
2	☐	1.000	0.823	7555.33	0.0008	P	1.9
3	☐	50.000	47.625	416376.15	0.0451	P	0.1
4	☐	125.000	120.236	1039221.88	0.1138	P	1.6
5	☐	250.000	241.746	2056696.92	0.2287	A	2.1
6	☐	500.000	488.748	4038508.31	0.4623	A	1.8
7	☐	1000.000	1008.404	7995263.56	0.9538	A	12.5
8	☐			3942.79	0.0005	P	4.6

$$y = 9.4582\text{E-}004 * x + 3.6973\text{E-}005$$

$$R = 0.9999$$

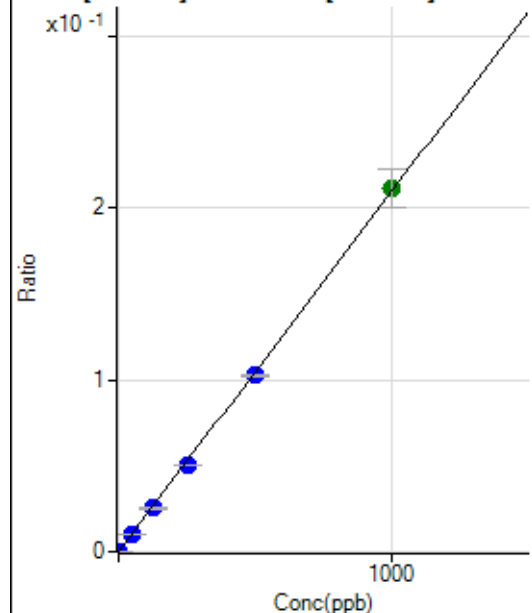
$$DL = 0.007884$$

$$BEC = 0.03909$$

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	44.44	0.0000	P	38.4
2	☐	1.000	0.858	1713.45	0.0002	P	4.6
3	☐	50.000	48.009	92985.22	0.0101	P	0.9
4	☐	125.000	120.718	231203.27	0.0253	P	1.0
5	☐	250.000	241.383	455097.86	0.0506	P	1.4
6	☐	500.000	489.264	895890.93	0.1026	P	1.5
7	☐	1000.000	1008.157	1773693.57	0.2113	A	10.7
8	☐			816.70	0.0001	P	0.7

$$y = 2.0960\text{E-}004 * x + 5.1201\text{E-}006$$

$$R = 0.9999$$

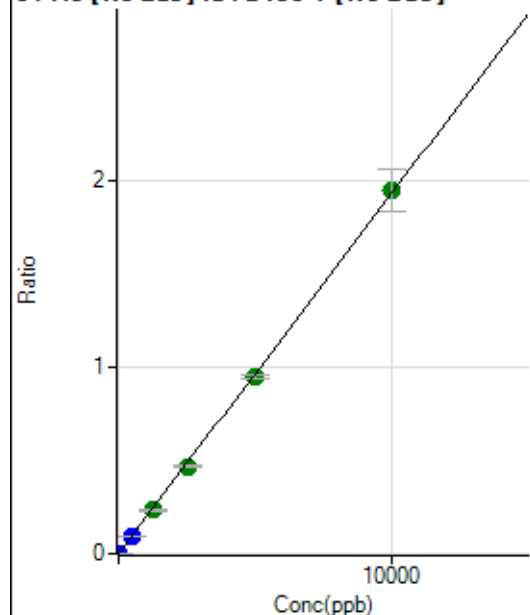
$$DL = 0.0281$$

$$BEC = 0.02443$$

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	171.12	0.0000	P	10.9
2	☐	5.000	4.808	8771.58	0.0009	P	3.1
3	☐	500.000	478.267	852184.07	0.0923	P	0.5
4	☐	1250.000	1206.464	2126138.61	0.2327	A	1.2
5	☐	2500.000	2419.539	4197732.86	0.4667	A	0.9
6	☐	5000.000	4897.799	8252298.84	0.9447	A	2.2
7	☐	10000.000	10077.745	16304585.18	1.9438	A	11.6
8	☐			4657.46	0.0006	P	10.8

$$y = 1.9288\text{E-}004 * x + 1.9421\text{E-}005$$

$$R = 0.9999$$

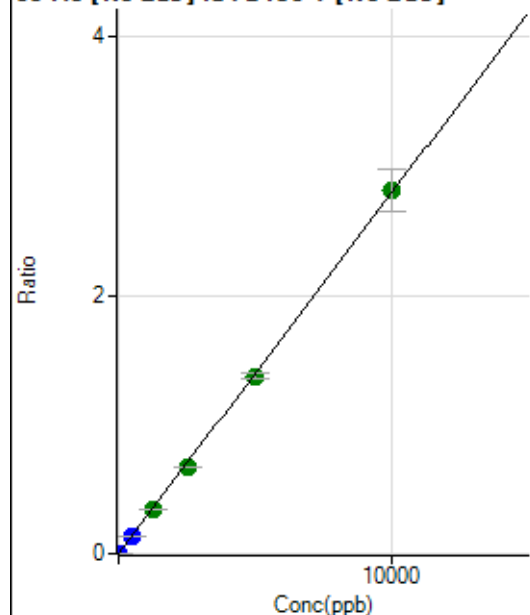
$$DL = 0.03281$$

$$BEC = 0.1007$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	378.90	0.0000	P	22.5
2	☐	5.000	4.015	10790.71	0.0012	P	0.4
3	☐	500.000	477.591	1232328.42	0.1334	P	0.2
4	☐	1250.000	1212.218	3093481.34	0.3386	A	0.4
5	☐	2500.000	2419.144	6077848.94	0.6757	A	0.3
6	☐	5000.000	4929.654	12026244.12	1.3768	A	2.7
7	☐	10000.000	10061.231	23571758.54	2.8100	A	11.5
8	☐			5437.74	0.0007	P	10.3

$$y = 2.7928\text{E-}004 * x + 4.3440\text{E-}005$$

$$R = 0.9999$$

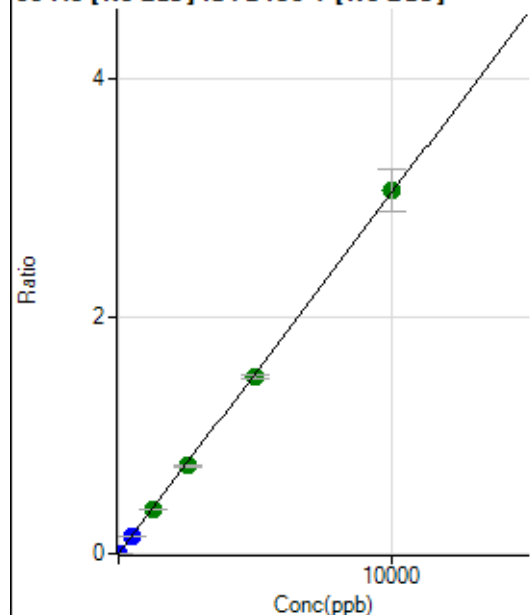
$$DL = 0.1051$$

$$BEC = 0.1555$$

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	78.89	0.0000	P	11.0
2	☐	5.000	4.069	11536.85	0.0012	P	3.0
3	☐	500.000	478.923	1344207.62	0.1455	P	0.1
4	☐	1250.000	1217.553	3380111.55	0.3700	A	1.0
5	☐	2500.000	2444.437	6680903.86	0.7428	A	1.6
6	☐	5000.000	4911.762	13037922.45	1.4925	A	2.1
7	☐	10000.000	10063.120	25645658.79	3.0579	A	11.8
8	☐			12538.88	0.0015	P	6.7

$$y = 3.0387E-004 * x + 9.0046E-006$$

$$R = 0.9999$$

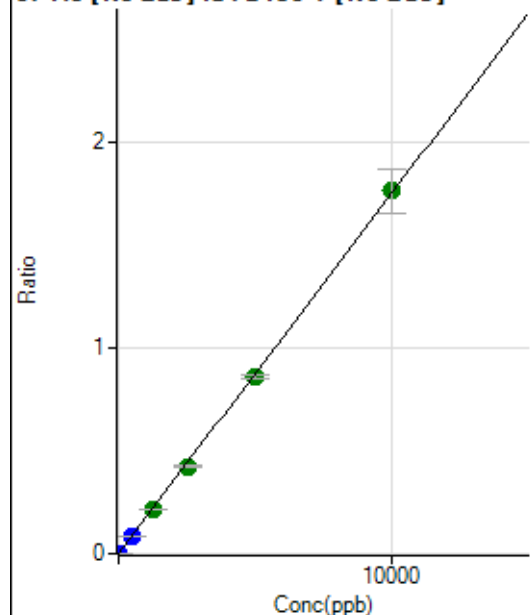
$$DL = 0.009736$$

$$BEC = 0.02963$$

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	74.45	0.0000	P	9.1
2	☐	5.000	3.966	6503.73	0.0007	P	1.7
3	☐	500.000	479.889	775221.73	0.0839	P	0.6
4	☐	1250.000	1210.778	1934535.96	0.2118	A	1.2
5	☐	2500.000	2415.809	3800198.56	0.4225	A	1.4
6	☐	5000.000	4904.907	7493664.33	0.8578	A	1.7
7	☐	10000.000	10074.503	14768917.84	1.7619	A	12.5
8	☐			3441.56	0.0004	P	14.0

$$y = 1.7489E-004 * x + 8.4379E-006$$

$$R = 0.9999$$

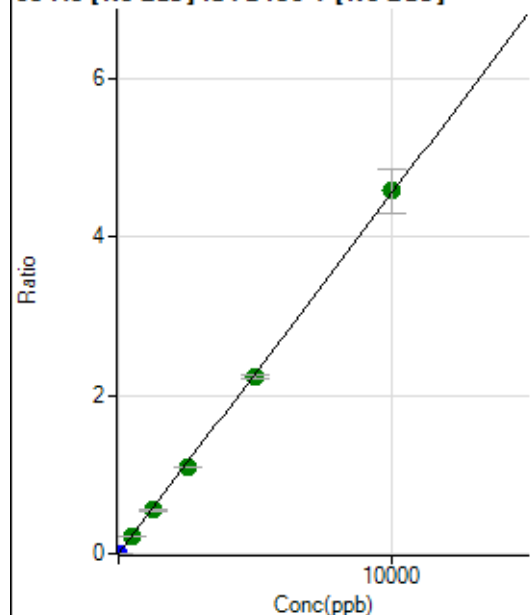
$$DL = 0.01324$$

$$BEC = 0.04825$$

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	48.89	0.0000	P	23.2
2	☐	5.000	4.029	17006.65	0.0018	P	1.4
3	☐	500.000	475.605	1995380.37	0.2160	A	0.9
4	☐	1250.000	1208.068	5012841.04	0.5488	A	2.1
5	☐	2500.000	2409.027	9842234.78	1.0943	A	1.2
6	☐	5000.000	4910.376	19485042.76	2.2305	A	1.6
7	☐	10000.000	10074.017	38360925.82	4.5760	A	12.4
8	☐			7665.45	0.0009	P	13.6

$$y = 4.5424\text{E-}004 * x + 5.5116\text{E-}006$$

$$R = 0.9999$$

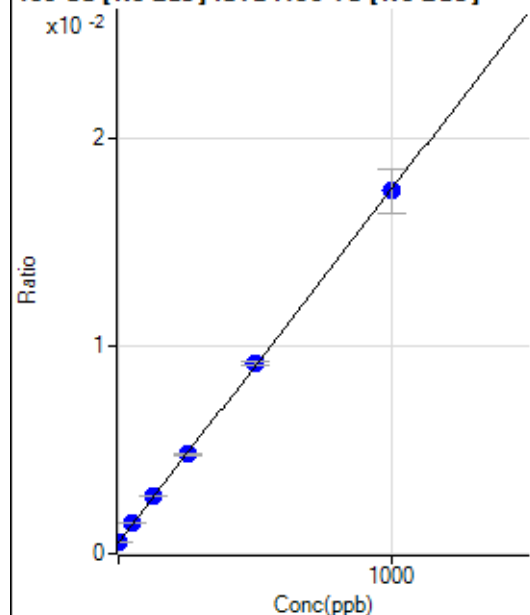
$$DL = 0.008432$$

$$BEC = 0.01213$$

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	4001.71	0.0005	P	4.1
2	☐	1.000	-0.315	4249.56	0.0005	P	1.1
3	☐	50.000	53.850	11479.06	0.0015	P	1.7
4	☐	125.000	131.336	21855.37	0.0028	P	0.6
5	☐	250.000	249.163	37875.93	0.0048	P	0.9
6	☐	500.000	507.577	70123.72	0.0092	P	1.9
7	☐	1000.000	995.438	131253.37	0.0174	P	12.4
8	☐			3691.62	0.0005	P	1.5

$$y = 1.6983\text{E-}005 * x + 5.3596\text{E-}004$$

$$R = 0.9999$$

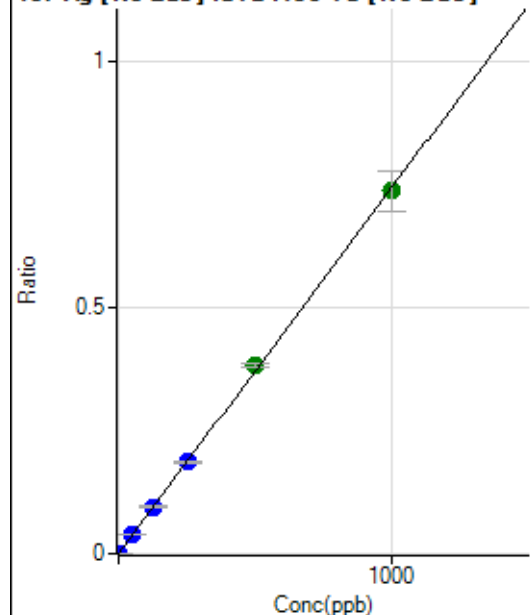
$$DL = 3.87$$

$$BEC = 31.56$$

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	52.22	0.0000	P	33.2
2	☐	1.000	0.885	5311.01	0.0007	P	1.6
3	☐	50.000	52.405	307671.98	0.0389	P	0.2
4	☐	125.000	128.818	754851.58	0.0956	P	0.6
5	☐	250.000	250.353	1475203.52	0.1857	P	1.3
6	☐	500.000	513.999	2919717.60	0.3812	A	2.1
7	☐	1000.000	992.315	5543001.44	0.7360	A	11.4
8	☐			1320.07	0.0002	P	16.5

$$y = 7.4170\text{E-}004 * x + 6.9055\text{E-}006$$

$$R = 0.9999$$

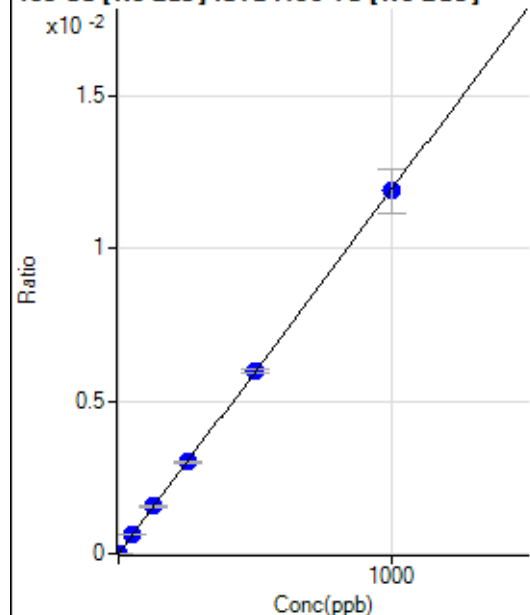
$$DL = 0.009261$$

$$BEC = 0.00931$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	11.11	0.0000	P	91.9
2	☐	1.000	0.788	86.67	0.0000	P	10.6
3	☐	50.000	53.407	5047.59	0.0006	P	2.6
4	☐	125.000	131.283	12368.70	0.0016	P	3.3
5	☐	250.000	251.314	23799.60	0.0030	P	2.3
6	☐	500.000	504.074	46010.48	0.0060	P	2.0
7	☐	1000.000	996.679	89404.15	0.0119	P	12.0
8	☐			78.89	0.0000	P	33.1

$$y = 1.1915\text{E-}005 * x + 1.4365\text{E-}006$$

$$R = 1.0000$$

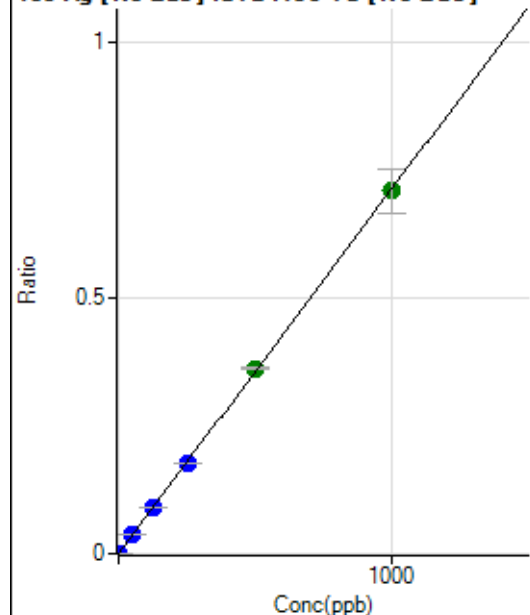
$$DL = 0.3324$$

$$BEC = 0.1206$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	26.67	0.0000	P	32.4
2	☐	1.000	0.898	5140.96	0.0006	P	6.4
3	☐	50.000	51.802	291578.57	0.0368	P	0.5
4	☐	125.000	127.961	718920.88	0.0910	P	0.9
5	☐	250.000	247.343	1397455.52	0.1759	P	0.6
6	☐	500.000	509.091	2772899.34	0.3620	A	1.7
7	☐	1000.000	995.659	5330420.44	0.7081	A	12.0
8	☐			1140.06	0.0002	P	8.4

$$y = 7.1115\text{E-}004 * x + 3.5688\text{E-}006$$

$$R = 0.9999$$

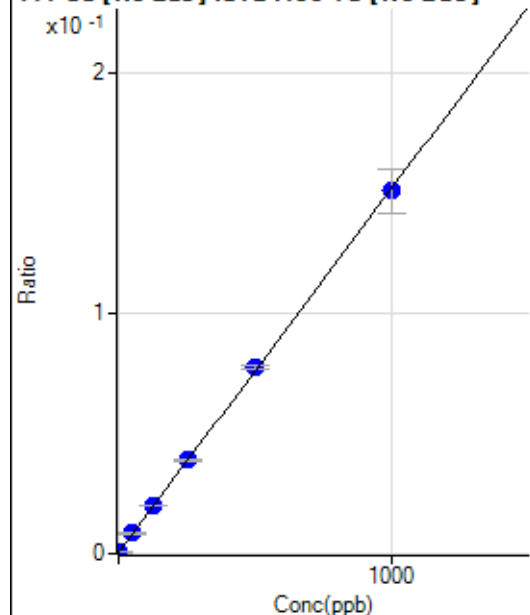
$$DL = 0.00488$$

$$BEC = 0.005018$$

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	2803.42	0.0004	P	4.0
2	☐	1.000	0.833	4018.52	0.0005	P	0.9
3	☐	50.000	52.974	66535.31	0.0084	P	1.1
4	☐	125.000	130.217	158939.12	0.0201	P	0.2
5	☐	250.000	253.964	308886.25	0.0389	P	0.8
6	☐	500.000	508.926	593841.14	0.0775	P	1.7
7	☐	1000.000	993.745	1137113.00	0.1510	P	11.9
8	☐			3158.93	0.0004	P	3.9

$$y = 1.5162\text{E-}004 * x + 3.7545\text{E-}004$$

$$R = 0.9999$$

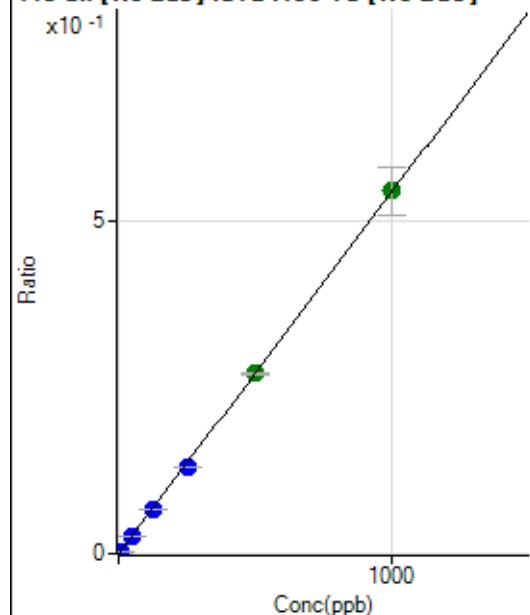
$$DL = 0.2973$$

$$BEC = 2.476$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	264.45	0.0000	P	4.2
2	☐	5.000	4.275	18880.25	0.0024	P	3.5
3	☐	50.000	48.945	210771.14	0.0266	P	0.5
4	☐	125.000	121.931	523701.43	0.0663	P	0.8
5	☐	250.000	237.959	1027548.28	0.1293	P	0.7
6	☐	500.000	498.599	2075326.25	0.2710	A	1.6
7	☐	1000.000	1004.151	4103648.90	0.5457	A	13.3
8	☐			2253.54	0.0003	P	3.2

$$y = 5.4339\text{E-}004 * x + 3.5447\text{E-}005$$

$$R = 0.9999$$

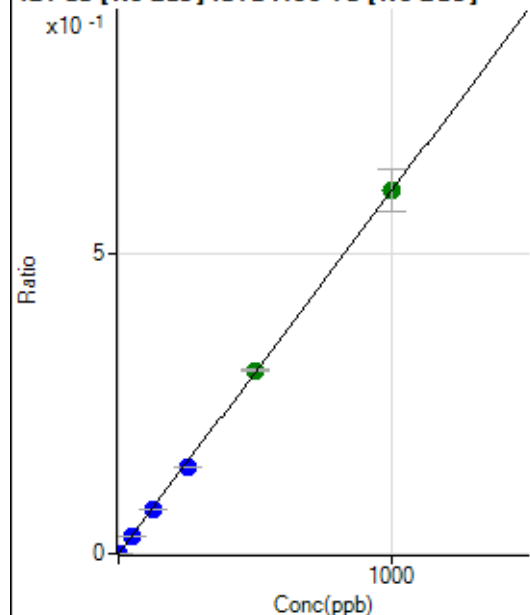
$$DL = 0.008217$$

$$BEC = 0.06523$$

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	26.67	0.0000	P	64.7
2	☐	2.000	1.659	8052.33	0.0010	P	3.3
3	☐	50.000	48.808	233444.49	0.0295	P	0.7
4	☐	125.000	122.195	583352.45	0.0738	P	0.8
5	☐	250.000	239.029	1147517.50	0.1444	P	0.8
6	☐	500.000	506.195	2342688.70	0.3059	A	1.8
7	☐	1000.000	1000.056	4550022.78	0.6043	A	11.7
8	☐			3123.70	0.0004	P	3.7

$$y = 6.0427\text{E-}004 * x + 3.4781\text{E-}006$$

$$R = 0.9999$$

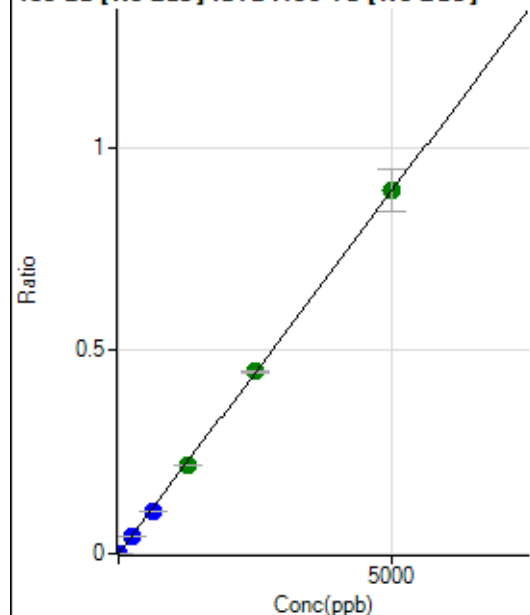
$$DL = 0.01118$$

$$BEC = 0.005756$$

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	26.67	0.0000	P	11.0
2	☐	10.000	8.375	12002.94	0.0015	P	2.5
3	☐	250.000	234.996	332161.12	0.0420	P	0.9
4	☐	625.000	590.864	833632.07	0.1055	P	1.0
5	☐	1250.000	1212.465	1720278.95	0.2165	A	0.7
6	☐	2500.000	2516.888	3442809.43	0.4495	A	0.8
7	☐	5000.000	5005.960	6731328.02	0.8940	A	11.7
8	☐			3773.86	0.0005	P	3.2

$$y = 1.7859\text{E-}004 * x + 3.5678\text{E-}006$$

$$R = 0.9999$$

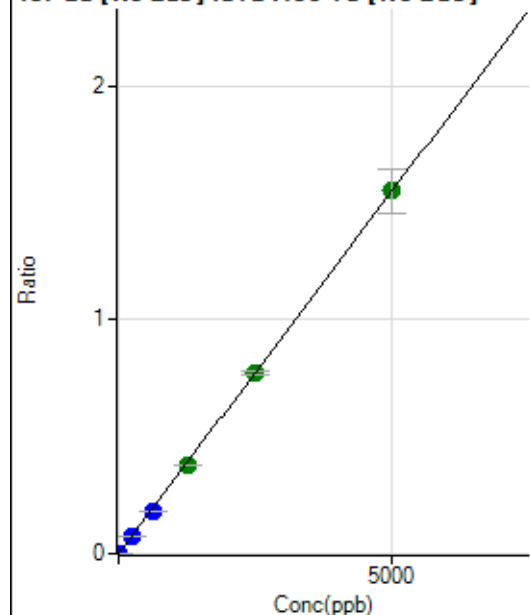
$$DL = 0.006585$$

$$BEC = 0.01998$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	27.78	0.0000	P	24.2
2	☐	10.000	8.284	20547.15	0.0026	P	1.9
3	☐	250.000	234.188	573393.28	0.0724	P	0.5
4	☐	625.000	590.272	1442544.08	0.1826	P	1.0
5	☐	1250.000	1221.700	3002666.97	0.3779	A	1.1
6	☐	2500.000	2496.050	5913896.72	0.7722	A	1.5
7	☐	5000.000	5014.185	11674049.13	1.5511	A	12.3
8	☐			6419.29	0.0009	P	3.4

$$y = 3.0935\text{E-}004 * x + 3.7176\text{E-}006$$

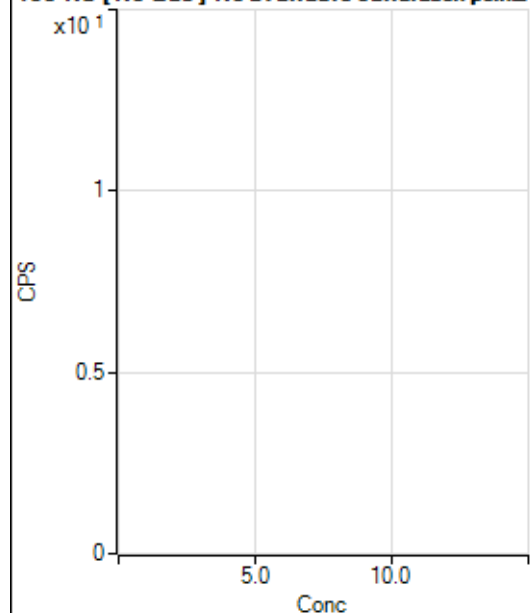
$$R = 1.0000$$

$$DL = 0.008721$$

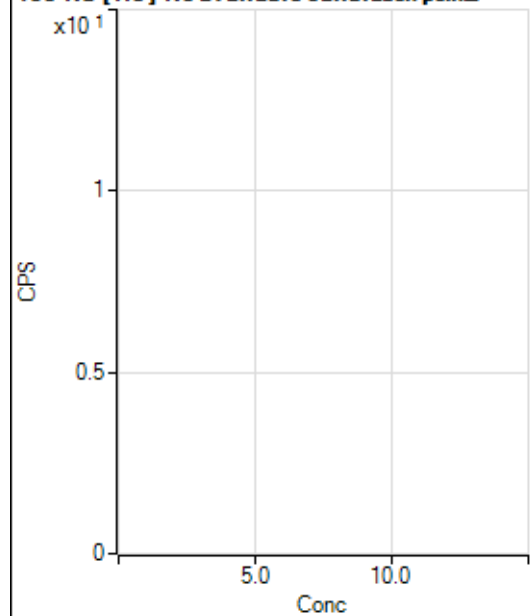
$$BEC = 0.01202$$

Weight: <None>

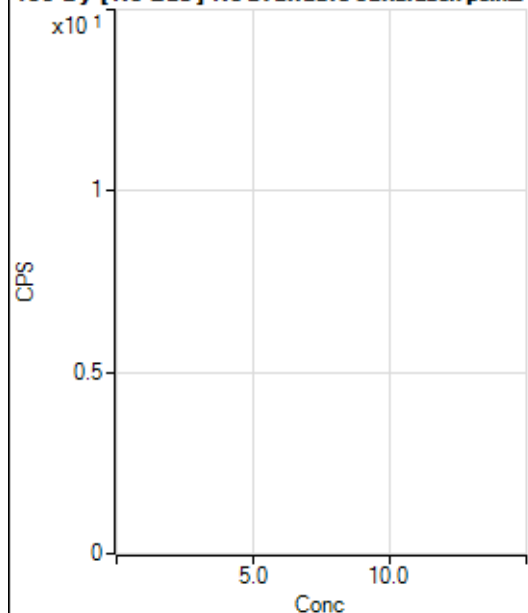
Min Conc: 0

150 Nd [No Gas] No available calibration points

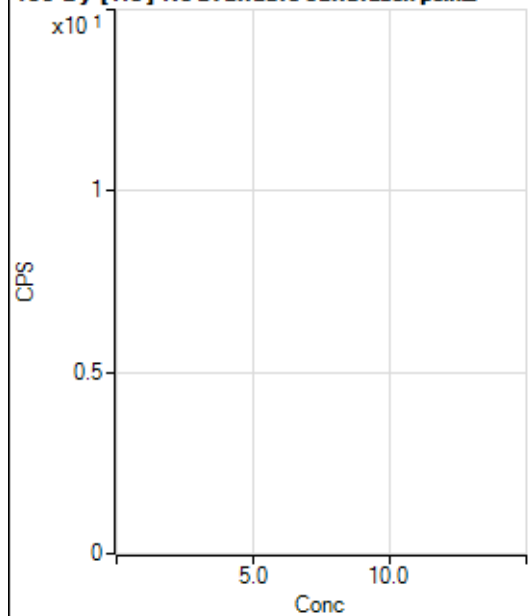
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			8.89		P	57.3
2	☐			10.00		P	57.8
3	☐			54.44		P	35.4
4	☐			123.34		P	23.6
5	☐			264.45		P	20.5
6	☐			474.46		P	2.1
7	☐			1076.72		P	3.2
8	☐			208.89		P	13.9

150 Nd [He] No available calibration points

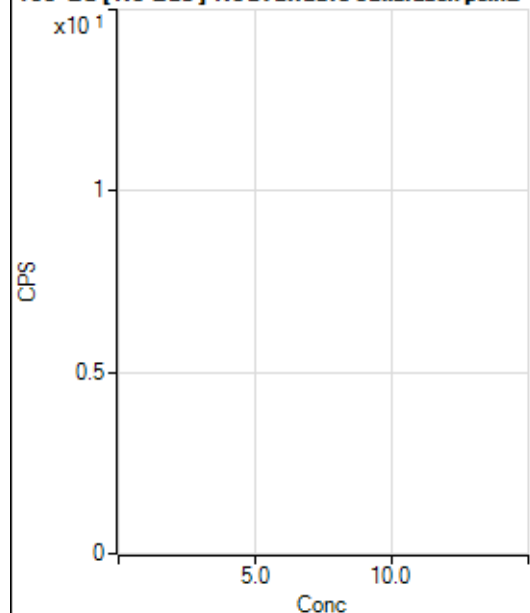
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			4.45		P	86.6
2	☐			3.33		P	100.
3	☐			17.78		P	43.3
4	☐			26.67		P	25.0
5	☐			72.22		P	19.2
6	☐			106.67		P	18.7
7	☐			187.78		P	8.0
8	☐			93.33		P	10.7

156 Dy [No Gas] No available calibration points

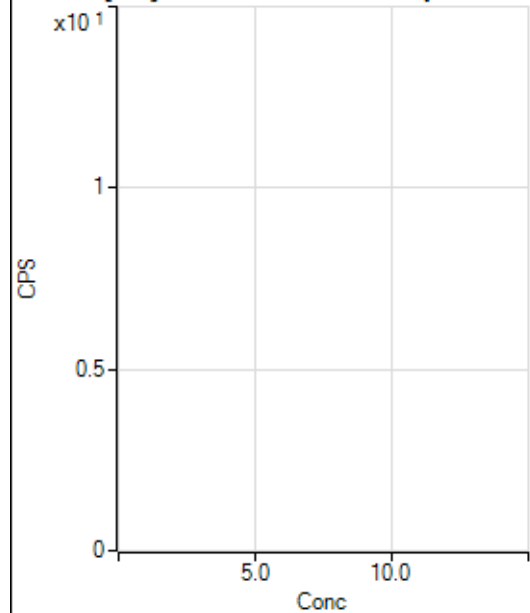
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			5.56		P	91.6
2	☐			6.67		P	86.6
3	☐			28.89		P	17.6
4	☐			65.56		P	21.2
5	☐			103.33		P	6.5
6	☐			230.00		P	15.1
7	☐			403.34		P	7.2
8	☐			1085.61		P	2.6

156 Dy [He] No available calibration points

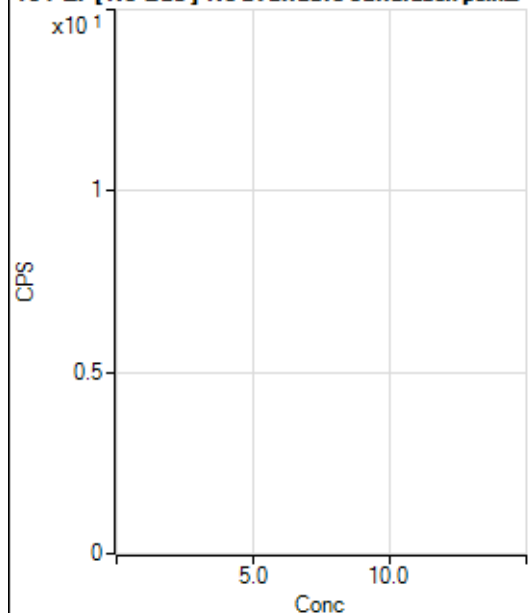
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2.22		P	86.6
2	☐			2.22		P	173.
3	☐			27.78		P	25.0
4	☐			40.00		P	54.6
5	☐			77.78		P	26.2
6	☐			177.78		P	7.6
7	☐			392.23		P	4.7
8	☐			666.69		P	8.8

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

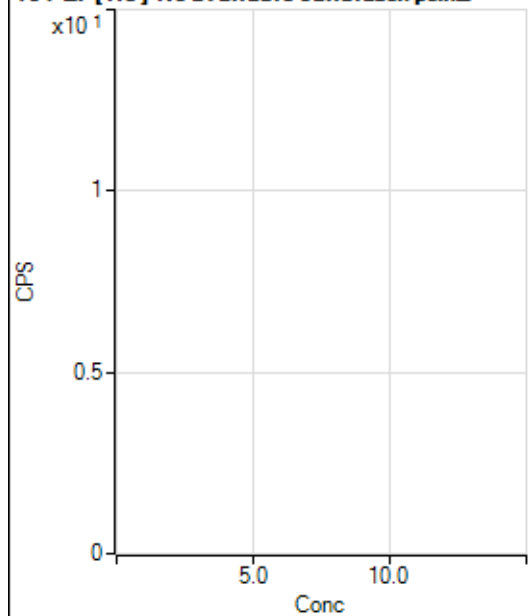
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			25.56		P	32.8
2	☐			38.89		P	9.9
3	☐			44.45		P	24.1
4	☐			78.89		P	20.8
5	☐			96.67		P	13.8
6	☐			165.56		P	18.6
7	☐			305.56		P	2.5
8	☐			1202.29		P	2.7

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			190.00		P	1.8
2	☐			157.78		P	22.8
3	☐			183.33		P	8.3
4	☐			205.56		P	7.5
5	☐			221.11		P	0.9
6	☐			288.90		P	11.1
7	☐			358.90		P	7.1
8	☐			890.04		P	1.7

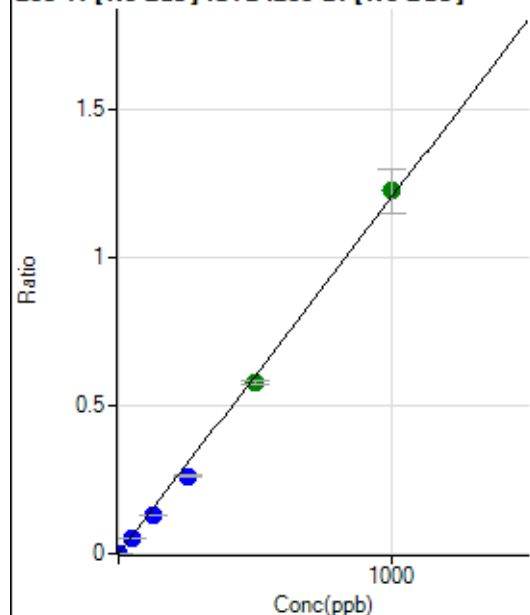
164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			56.67		P	35.3
2	☐			63.33		P	34.5
3	☐			57.78		P	24.0
4	☐			87.78		P	28.5
5	☐			75.56		P	50.2
6	☐			91.11		P	12.8
7	☐			140.00		P	22.7
8	☐			172.23		P	1.1

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			35.56		P	42.3
2	☐			36.67		P	18.2
3	☐			40.00		P	36.3
4	☐			36.67		P	45.5
5	☐			57.78		P	18.5
6	☐			56.67		P	23.5
7	☐			78.89		P	24.8
8	☐			100.00		P	18.6

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	96.67	0.0000	P	32.0
2	☐	1.000	0.755	4214.02	0.0009	P	3.9
3	☐	50.000	43.053	233963.29	0.0518	P	1.6
4	☐	125.000	108.840	590721.52	0.1309	P	1.9
5	☐	250.000	218.430	1168669.87	0.2627	P	1.0
6	☐	500.000	483.143	2520632.30	0.5810	A	2.2
7	☐	1000.000	1018.688	5005960.17	1.2251	A	12.0
8	☐			930.04	0.0003	P	10.4

$$y = 0.0012 * x + 2.2662E-005$$

$$R = 0.9992$$

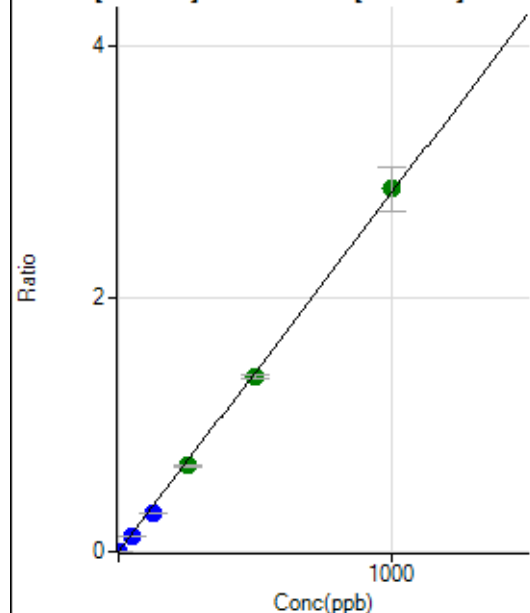
$$DL = 0.01809$$

$$BEC = 0.01884$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	172.23	0.0000	P	24.2
2	☐	1.000	0.758	9917.03	0.0022	P	1.7
3	☐	50.000	43.344	555110.11	0.1229	P	1.2
4	☐	125.000	108.802	1391749.32	0.3084	P	1.8
5	☐	250.000	238.702	3010032.04	0.6766	A	0.9
6	☐	500.000	487.920	5999199.98	1.3830	A	2.7
7	☐	1000.000	1011.222	11711707.33	2.8662	A	12.1
8	☐			2193.54	0.0006	P	12.3

$$y = 0.0028 * x + 4.0213E-005$$

$$R = 0.9997$$

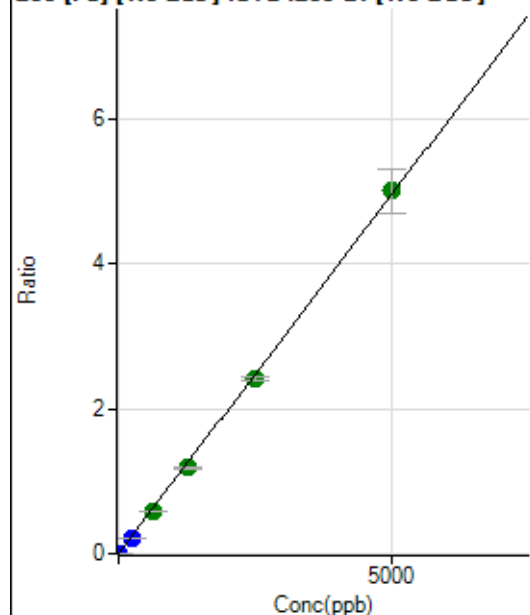
$$DL = 0.01032$$

$$BEC = 0.01419$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	188.89	0.0000	P	18.9
2	☐	1.000	0.723	3440.47	0.0008	P	2.0
3	☐	250.000	215.961	965362.18	0.2137	P	1.2
4	☐	625.000	584.173	2608395.07	0.5780	A	1.6
5	☐	1250.000	1194.448	5257176.35	1.1819	A	2.0
6	☐	2500.000	2433.450	10445321.37	2.4077	A	2.0
7	☐	5000.000	5053.969	20429455.53	5.0005	A	12.2
8	☐			8757.35	0.0024	P	4.6

$$y = 9.8942\text{E-}004 * x + 4.3898\text{E-}005$$

$$R = 0.9998$$

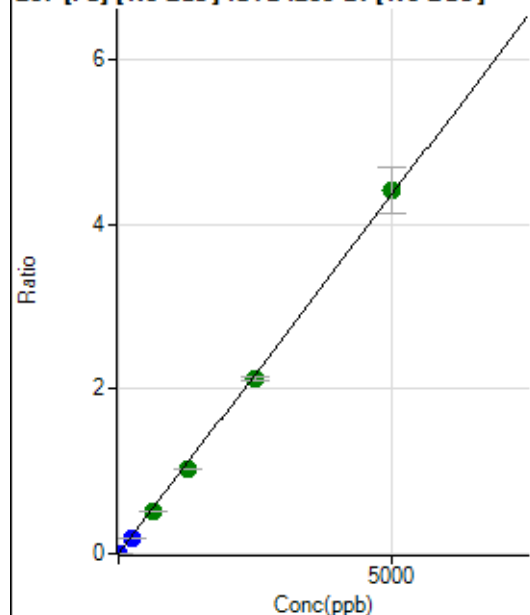
$$DL = 0.02512$$

$$BEC = 0.04437$$

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	154.45	0.0000	P	14.2
2	☐	1.000	0.725	3025.92	0.0007	P	1.1
3	☐	250.000	213.792	842006.51	0.1864	P	0.7
4	☐	625.000	594.708	2339459.39	0.5185	A	2.1
5	☐	1250.000	1184.505	4593643.51	1.0326	A	1.1
6	☐	2500.000	2433.324	9202580.28	2.1212	A	2.1
7	☐	5000.000	5055.309	17995593.62	4.4069	A	12.9
8	☐			7557.73	0.0021	P	3.9

$$y = 8.7173\text{E-}004 * x + 3.5557\text{E-}005$$

$$R = 0.9998$$

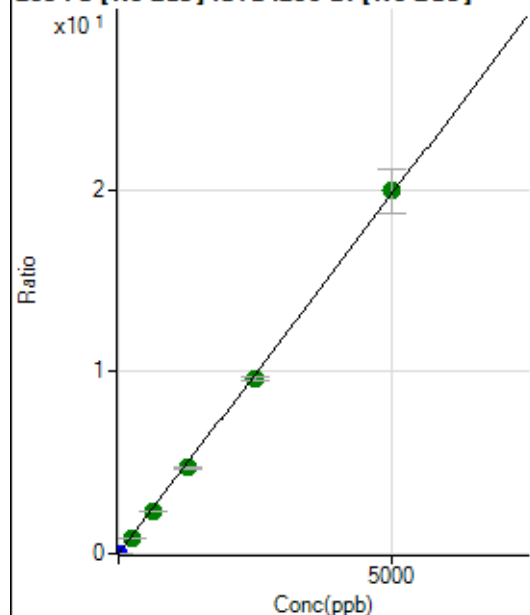
$$DL = 0.01736$$

$$BEC = 0.04079$$

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	768.91	0.0002	P	6.4
2	☐	1.000	0.716	13628.35	0.0030	P	1.9
3	☐	250.000	226.322	4039831.16	0.8943	A	0.7
4	☐	625.000	593.269	10577586.11	2.3441	A	1.8
5	☐	1250.000	1192.977	20967736.63	4.7135	A	1.4
6	☐	2500.000	2438.328	41790993.26	9.6337	A	2.4
7	☐	5000.000	5050.242	81521380.18	19.9530	A	12.2
8	☐			34778.84	0.0096	P	3.2

$$y = 0.0040 * x + 1.7836E-004$$

$$R = 0.9998$$

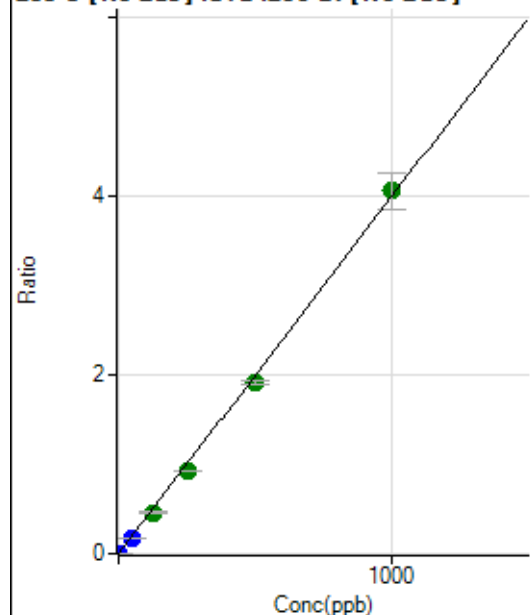
$$DL = 0.008647$$

$$BEC = 0.04514$$

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	12.22	0.0000	P	101.
2	☐	1.000	0.699	12661.67	0.0028	P	1.6
3	☐	50.000	40.959	738629.86	0.1635	P	1.2
4	☐	125.000	115.017	2071953.82	0.4592	A	2.6
5	☐	250.000	231.784	4116377.79	0.9254	A	1.6
6	☐	500.000	479.692	8307809.53	1.9151	A	2.3
7	☐	1000.000	1016.408	16600364.34	4.0578	A	10.4
8	☐			2911.46	0.0008	P	13.3

$$y = 0.0040 * x + 2.8284E-006$$

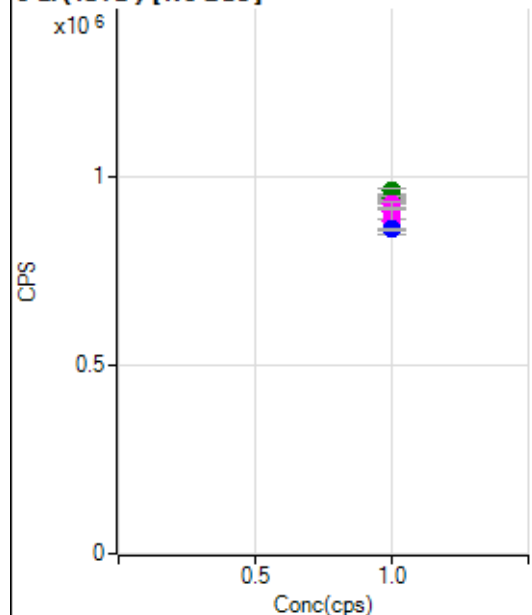
$$R = 0.9995$$

$$DL = 0.002153$$

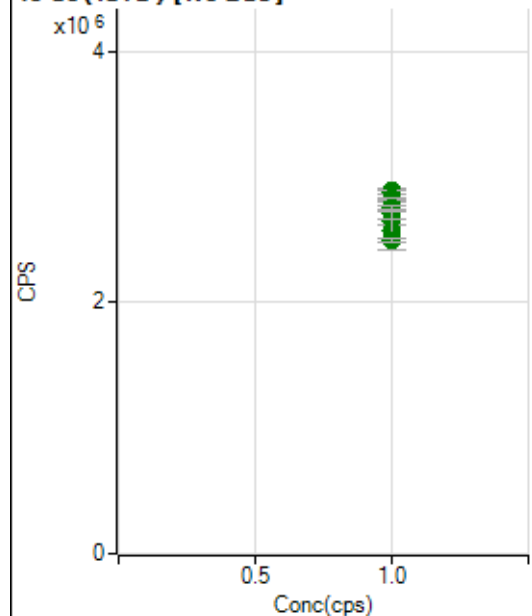
$$BEC = 0.0007085$$

Weight: <None>

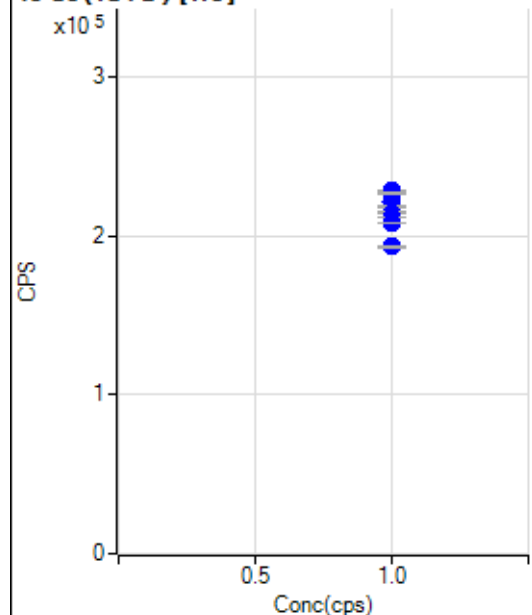
Min Conc: 0

6 Li (ISTD) [No Gas]

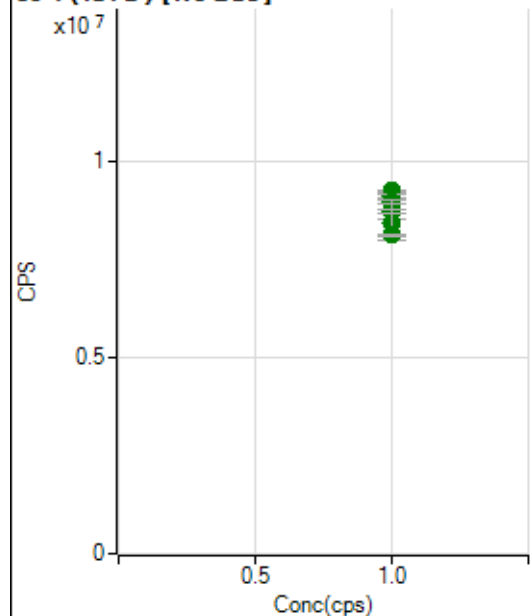
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		909363.34		M	4.3
2	☐	1.000		962109.72		A	1.8
3	☐	1.000		938070.63		A	1.1
4	☐	1.000		943104.28		A	0.9
5	☐	1.000		943827.30		A	0.7
6	☐	1.000		926251.10		M	1.5
7	☐	1.000		879950.31		M	7.5
8	☐	1.000		861159.54		P	0.6

45 Sc (ISTD) [No Gas]

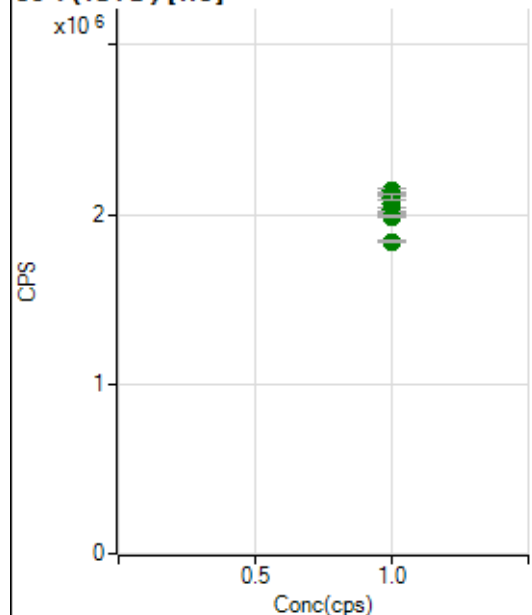
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2711213.78		A	6.6
2	☐	1.000		2887906.97		A	1.3
3	☐	1.000		2877905.65		A	1.5
4	☐	1.000		2825259.75		A	0.5
5	☐	1.000		2756586.45		A	1.0
6	☐	1.000		2645175.13		A	1.5
7	☐	1.000		2573021.71		A	11.6
8	☐	1.000		2497103.26		A	1.3

45 Sc (ISTD) [He]

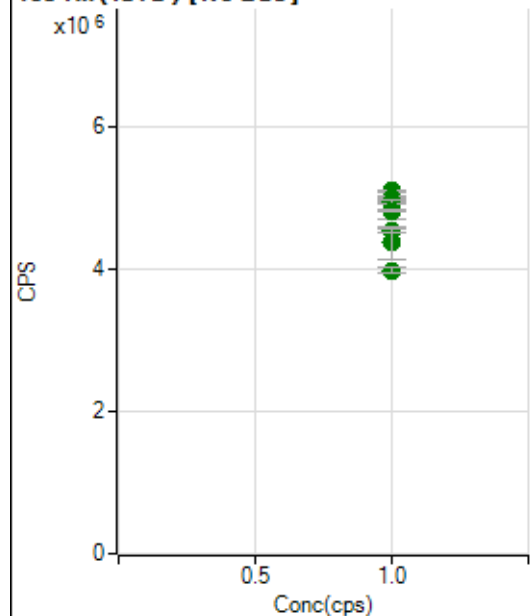
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		228394.45		P	0.5
2	☐	1.000		221075.37		P	5.8
3	☐	1.000		226776.76		P	0.8
4	☐	1.000		218624.90		P	0.4
5	☐	1.000		214546.01		P	0.5
6	☐	1.000		212213.65		P	0.2
7	☐	1.000		208297.85		P	0.4
8	☐	1.000		193159.83		P	0.4

89 Y (ISTD) [No Gas]

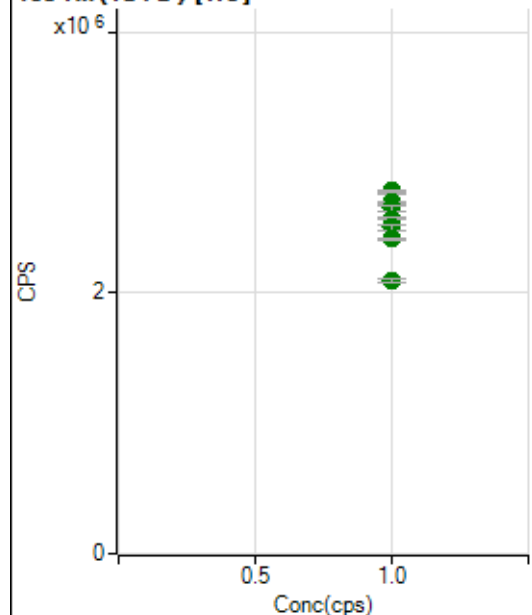
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		8799281.53		A	6.1
2	☐	1.000		9264508.05		A	0.5
3	☐	1.000		9236066.39		A	0.2
4	☐	1.000		9136553.47		A	1.3
5	☐	1.000		8995144.66		A	1.2
6	☐	1.000		8736926.40		A	1.3
7	☐	1.000		8461835.43		A	11.3
8	☐	1.000		8131877.66		A	0.8

89 Y(ISTD) [He]

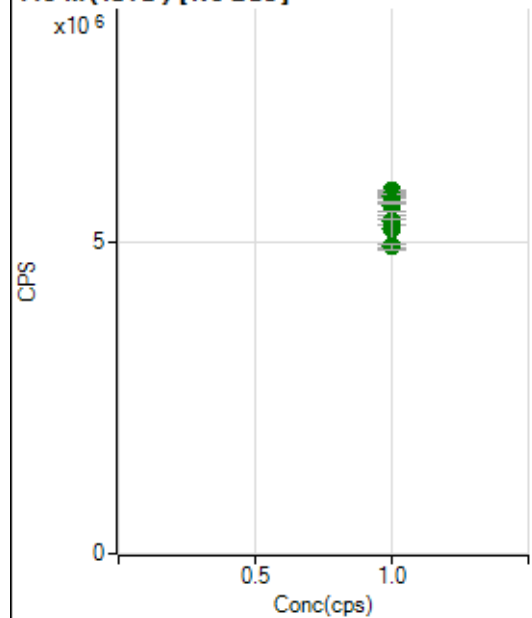
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2138003.48		A	1.4
2	☐	1.000		2067343.53		A	6.2
3	☐	1.000		2115313.58		A	0.6
4	☐	1.000		2097832.90		A	1.5
5	☐	1.000		2030706.69		A	0.9
6	☐	1.000		2012382.92		A	0.5
7	☐	1.000		1987779.90		A	0.2
8	☐	1.000		1839351.53		A	0.5

103 Rh(ISTD) [No Gas]

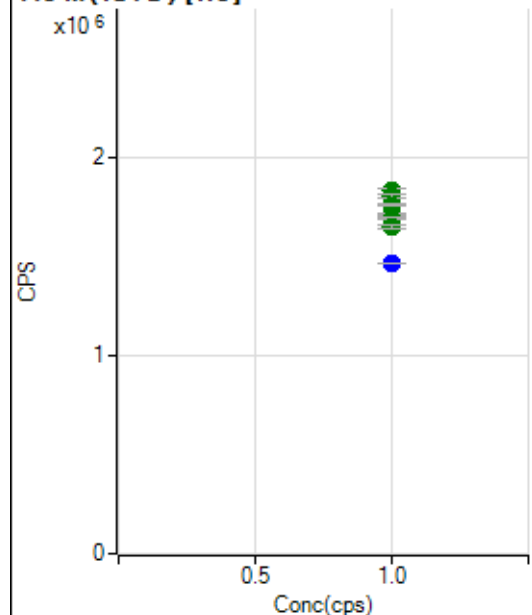
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4838565.86		A	5.0
2	☐	1.000		5102214.54		A	0.5
3	☐	1.000		5010214.44		A	0.4
4	☐	1.000		4940625.17		A	1.2
5	☐	1.000		4824986.07		A	0.4
6	☐	1.000		4542482.29		A	1.7
7	☐	1.000		4375500.70		A	10.7
8	☐	1.000		3987598.34		A	2.4

103 Rh (ISTD) [He]

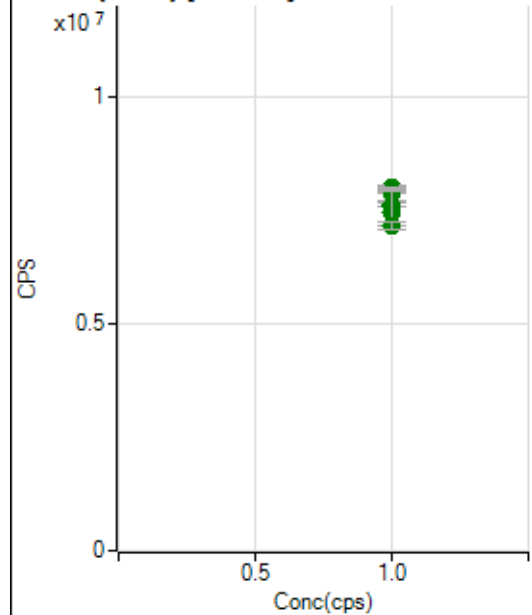
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2784169.23		A	0.2
2	☐	1.000		2667986.18		A	7.0
3	☐	1.000		2694584.44		A	0.5
4	☐	1.000		2650534.85		A	1.3
5	☐	1.000		2571190.48		A	0.5
6	☐	1.000		2501572.43		A	1.3
7	☐	1.000		2416116.42		A	0.5
8	☐	1.000		2098815.98		A	1.3

115 In (ISTD) [No Gas]

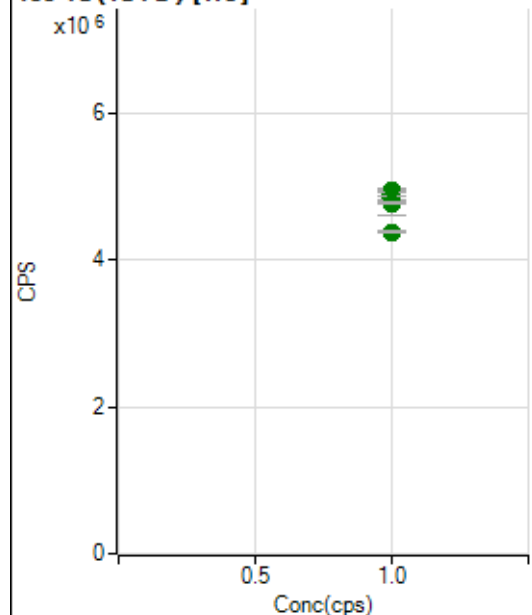
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5575533.52		A	5.6
2	☐	1.000		5805404.04		A	0.8
3	☐	1.000		5793286.25		A	0.6
4	☐	1.000		5732389.61		A	1.1
5	☐	1.000		5623238.57		A	0.7
6	☐	1.000		5317165.42		A	1.7
7	☐	1.000		5192406.60		A	11.1
8	☐	1.000		4908591.49		A	2.1

115 In (ISTD) [He]

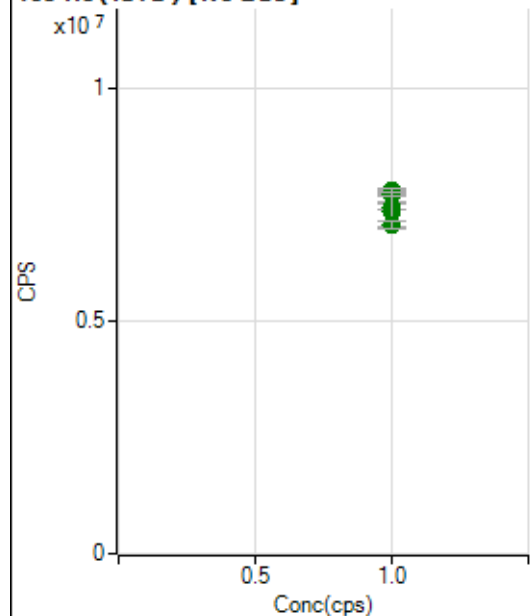
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1831002.72		A	1.6
2	☐	1.000		1761508.79		A	6.2
3	☐	1.000		1804490.79		A	1.2
4	☐	1.000		1758698.64		A	0.5
5	☐	1.000		1710887.18		A	0.7
6	☐	1.000		1691194.69		A	0.3
7	☐	1.000		1649649.66		A	1.0
8	☐	1.000		1467087.84		P	0.2

159 Tb (ISTD) [No Gas]

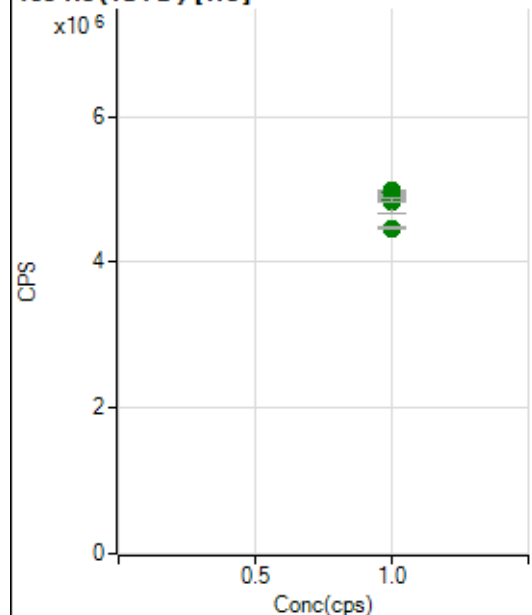
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7473051.83		A	6.1
2	☐	1.000		8007883.49		A	1.8
3	☐	1.000		7914317.59		A	0.6
4	☐	1.000		7900153.42		A	0.6
5	☐	1.000		7944673.70		A	0.6
6	☐	1.000		7659933.08		A	1.3
7	☐	1.000		7598313.22		A	11.6
8	☐	1.000		7160752.81		A	2.3

159 Tb (ISTD) [He]

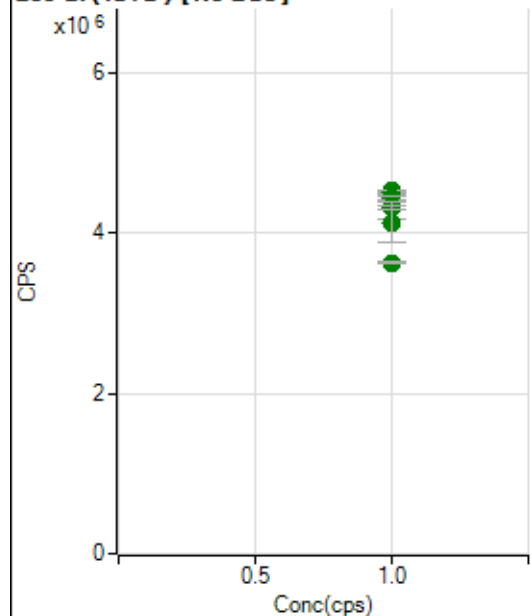
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4935628.29		A	1.0
2	☐	1.000		4762585.73		A	6.8
3	☐	1.000		4922277.84		A	0.6
4	☐	1.000		4886288.61		A	1.2
5	☐	1.000		4831929.17		A	1.4
6	☐	1.000		4827729.37		A	1.1
7	☐	1.000		4764275.66		A	0.5
8	☐	1.000		4379359.62		A	0.7

165 Ho (ISTD) [No Gas]

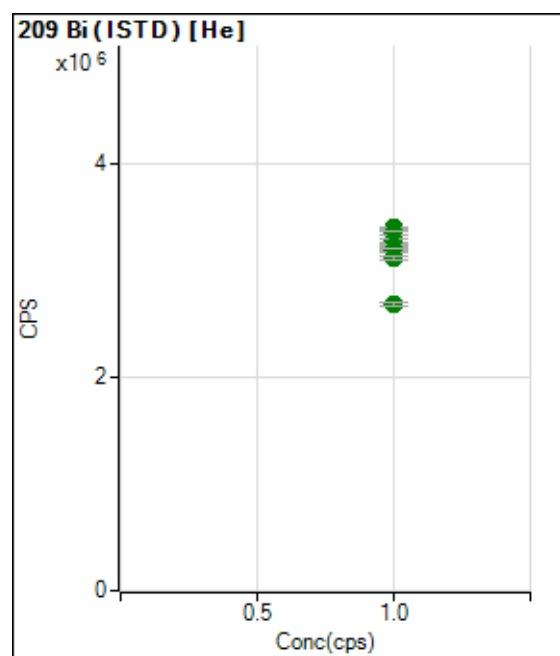
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7353393.36		A	6.0
2	☐	1.000		7740531.07		A	0.8
3	☐	1.000		7788836.62		A	0.3
4	☐	1.000		7717649.19		A	0.5
5	☐	1.000		7712483.01		A	0.8
6	☐	1.000		7450474.68		A	1.3
7	☐	1.000		7420412.39		A	11.0
8	☐	1.000		7059715.11		A	2.1

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4979198.40		A	0.6
2	☐	1.000		4821687.12		A	6.2
3	☐	1.000		4962289.44		A	0.6
4	☐	1.000		4924220.65		A	0.4
5	☐	1.000		4885116.07		A	0.8
6	☐	1.000		4903823.26		A	0.6
7	☐	1.000		4861083.95		A	1.0
8	☐	1.000		4472351.29		A	0.2

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4323880.25		A	7.0
2	☐	1.000		4530813.99		A	0.7
3	☐	1.000		4517244.55		A	0.8
4	☐	1.000		4513082.09		A	1.2
5	☐	1.000		4448988.09		A	1.3
6	☐	1.000		4339399.07		A	2.0
7	☐	1.000		4122288.24		A	11.0
8	☐	1.000		3633629.46		A	0.9



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3406313.87		A	0.8
2	☐	1.000		3294463.25		A	6.5
3	☐	1.000		3358321.37		A	0.6
4	☐	1.000		3281088.08		A	1.0
5	☐	1.000		3237653.42		A	0.8
6	☐	1.000		3199241.38		A	1.2
7	☐	1.000		3116374.95		A	1.2
8	☐	1.000		2687968.78		A	1.2

US EPA Tune Check Report

Operator Name Jaswal
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\IP7111723-MS1.b
Acq. Date-Time 2023-11-17 09:28:08
Report Comment ---
Instrument Name G8403A JP14410463

[No Gas]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
9		5489	54890.37			0.690	5.000
24		36156	361564.91			0.742	5.000
25		4686	46864.99			0.855	5.000
26		5458	54583.94			1.060	5.000
59		46161	461607.93			0.729	5.000
113		7703	77028.58			0.801	5.000
115		95839	958390.93			1.384	5.000
206		20945	209448.84			0.667	5.000
207		18694	186943.58			0.860	5.000
208		44653	446531.85			0.585	5.000
220		0	2.60			39.411	

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

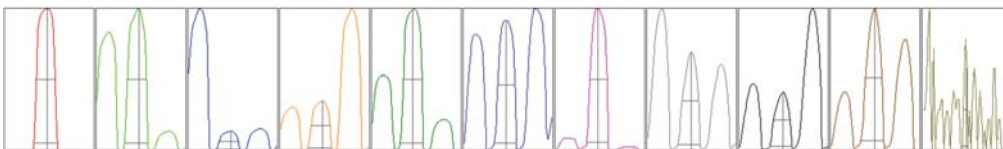
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	5431	5522	5470	5515	5507
24	35869	36466	35889	36218	36340
25	4627	4735	4672	4697	4701
26	5391	5550	5438	5455	5458
59	45705	46639	46177	46229	46054
113	7627	7800	7693	7692	7702
115	95859	98121	95004	95275	94936
206	20763	21126	21028	20935	20873
207	18463	18907	18707	18649	18746
208	44279	45006	44718	44673	44590

US EPA Tune Check Report

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
220	0	0	0	0	0

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	8828.37	8.95	8.90 - 9.10	
24	58522.52	23.95	23.90 - 24.10	
25	7624.33	24.95	24.90 - 25.10	
26	8715.73	25.95	25.90 - 26.10	
59	74545.05	58.90	58.90 - 59.10	
113	13659.08	112.95	112.90 - 113.10	
115	172899.56	114.95	114.90 - 115.10	
206	39874.00	206.00	205.90 - 206.10	
207	35053.50	207.00	206.90 - 207.10	
208	84340.89	208.00	207.90 - 208.10	
220	0.40	220.00	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.64	0.783	0.900	
24	0.65	0.783	0.900	
25	0.65	0.782	0.900	
26	0.64	0.785	0.900	
59	0.63	0.779	0.900	
113	0.57	0.757	0.900	
115	0.57	0.735	0.900	
206	0.55	0.750	0.900	
207	0.54	0.741	0.900	
208	0.54	0.774	0.900	
220	0.14	0.194		

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode --- Nebulizer Gas 0.82 L/min Dilution Gas 0.40 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	9.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	8.6 V	Deflect	14.8 V
Extract 2	-95.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-55 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	---	OctP RF	200 V		

QP Parameters

Mass Gain	132	Axis Gain	0.9973	QP Bias	-3.0 V
Mass Offset	130	Axis Offset	0.11		

Hardware Settings

Torch

Torch H	-1.0 mm	Torch V	0.8 mm
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EM

Discriminator	4.6 mV	Analog HV	2296 V	Pulse HV	1351 V
---------------	--------	-----------	--------	----------	--------

[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		13940	139401.80			0.416	
89		22096	220961.49			0.796	
205		21728	217281.29			0.984	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	14022	13965	13865	13918	13931
89	22247	21991	21951	21967	22325
205	22019	21629	21510	21598	21884

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.82 L/min	Dilution Gas	0.40 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	9.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	8.9 V	Deflect	2.0 V
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US EPA Tune Check Report

Extract 2	-100.0 V	Cell Entrance	-40 V	Plate Bias	-60 V
Omega Bias	-55 V	Cell Exit	-60 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	3.9 mL/min	OctP Bias	-18.0 V		
H2 Flow	---	OctP RF	200 V		

QP Parameters

Mass Gain	132	Axis Gain	0.9973	QP Bias	-13.0 V
Mass Offset	130	Axis Offset	0.11		

Hardware Settings

Torch

Torch H	-1.0 mm	Torch V	0.8 mm
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EM

Discriminator	4.6 mV	Analog HV	2296 V	Pulse HV	1351 V
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