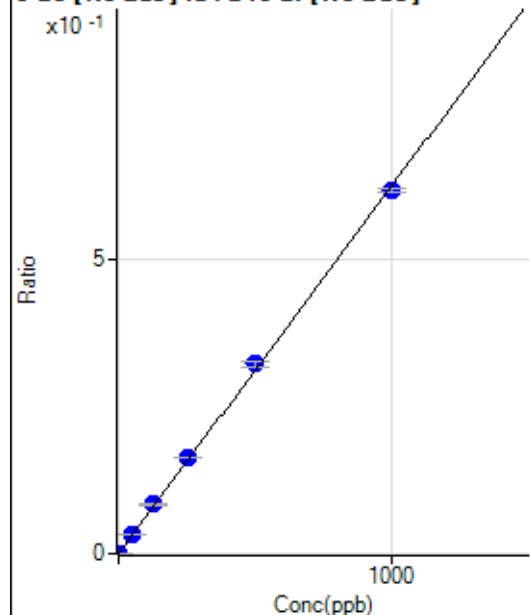


Batch Folder: D:\Agilent\ICPMH\1\DATA\P7051723 MS.b\
Analysis File: P7051723 MS.batch.bin
DA Date-Time: 2023-05-17 17:26:39
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.d	S00	2023-05-17 11:23:36
2	005CALS.d	S02	2023-05-17 11:26:51
3	006CALS.d	S03	2023-05-17 11:30:06
4	007CALS.d	S04	2023-05-17 11:33:13
5	008CALS.d	S05	2023-05-17 11:36:12
6	009CALS.d	S06	2023-05-17 11:39:04
7	010CALS.d	S07	2023-05-17 11:41:53
8	011CALS.d	S08	2023-05-17 11:44:38

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	44.44	0.0000	P	29.9
2	☐	1.000	1.107	936.70	0.0007	P	6.1
3	☐	50.000	53.601	43702.30	0.0336	P	1.1
4	☐	125.000	133.763	106606.27	0.0837	P	0.6
5	☐	250.000	261.352	204068.08	0.1635	P	0.6
6	☐	500.000	516.317	402491.92	0.3229	P	2.4
7	☐	1000.000	987.728	761703.44	0.6177	P	0.9
8	☐			556.68	0.0005	P	23.3

$$y = 6.2533\text{E-}004 * x + 3.4233\text{E-}005$$

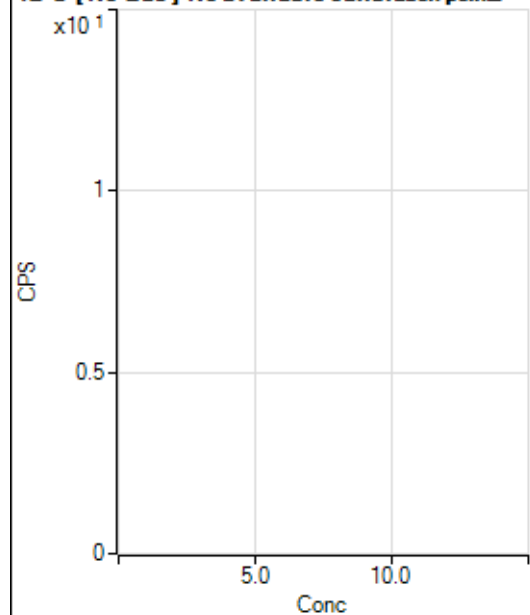
$$R = 0.9997$$

$$DL = 0.04904$$

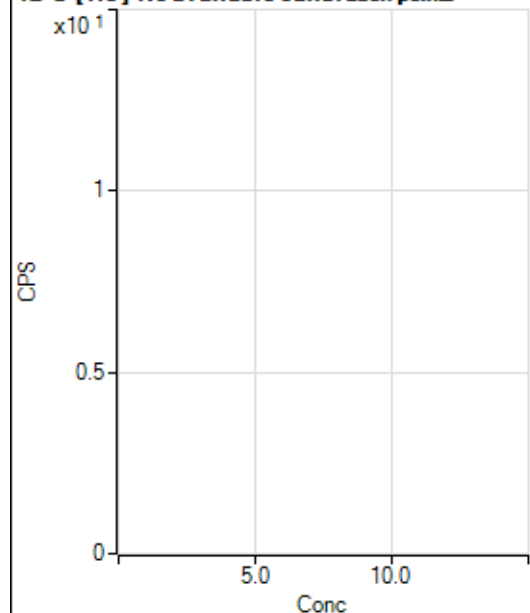
$$BEC = 0.05474$$

Weight: <None>

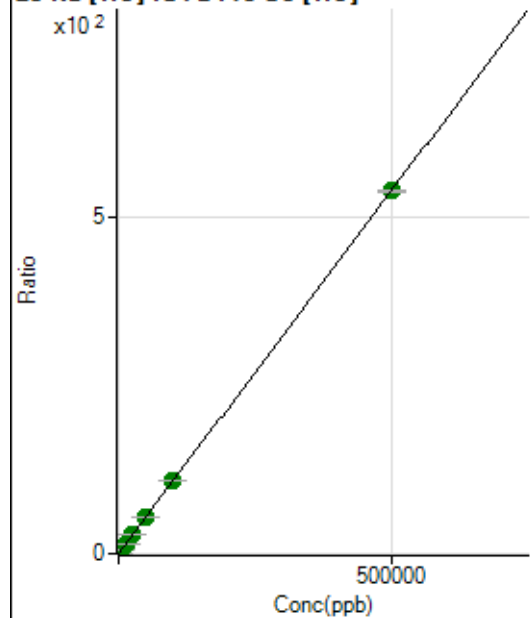
Min Conc: 0

12 C [No Gas] No available calibration points

	R _j 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	5014.19	0.0183	P	2.0
2	☐	500.000	472.531	144244.53	0.5269	P	1.1
3	☐	5000.000	5202.977	1539135.08	5.6184	A	1.8
4	☐	12500.000	12938.697	3710154.98	13.9445	A	0.3
5	☐	25000.000	25382.927	7173444.13	27.3385	A	0.6
6	☐	50000.000	51085.503	14247967.01	55.0028	A	1.5
7	☐	100000.00	100652.46	27996230.14	108.3528	A	0.9
8	☐	500000.00	499728.84	122649555.9	537.8876	A	0.7

$$y = 0.0011 * x + 0.0183$$

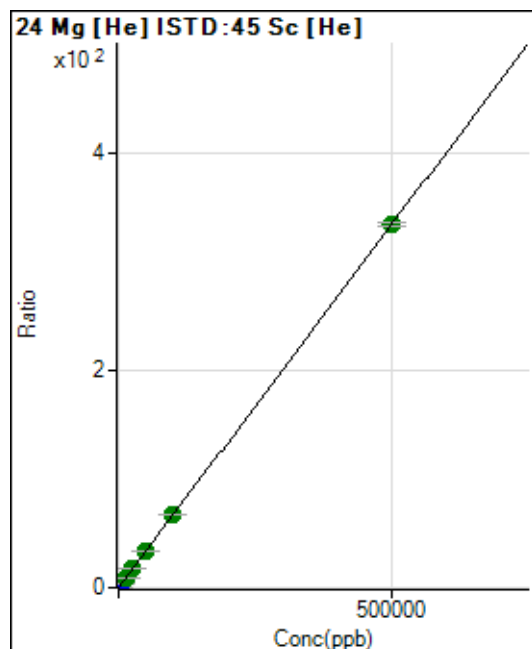
$$R = 1.0000$$

$$DL = 1.009$$

$$BEC = 17.04$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	414.46	0.0015	P	13.0
2	☐	500.000	471.707	86517.95	0.3160	P	0.7
3	☐	5000.000	5232.353	956162.79	3.4904	P	0.2
4	☐	12500.000	13128.616	2329613.25	8.7556	A	1.2
5	☐	25000.000	25647.845	4487906.01	17.1034	A	0.8
6	☐	50000.000	50776.088	8770991.75	33.8589	A	1.3
7	☐	100000.00	100097.40	17246076.55	66.7462	A	1.0
8	☐	500000.00	499852.50	76000170.54	333.3016	A	0.9

$$y = 6.6680\text{E-}004 * x + 0.0015$$

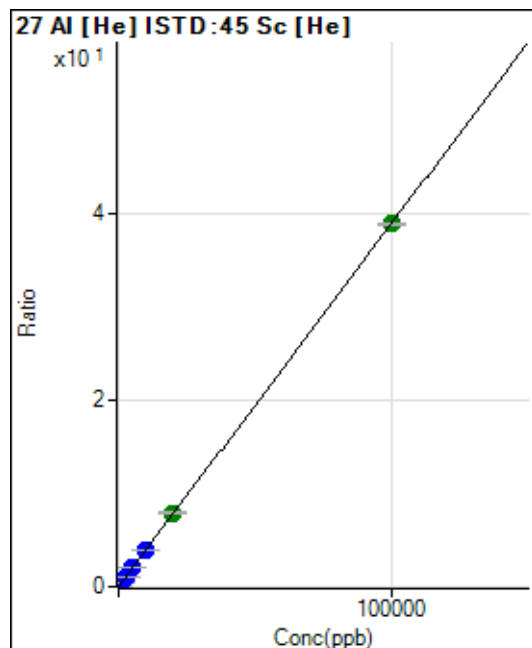
$$R = 1.0000$$

$$DL = 0.8893$$

$$BEC = 2.274$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	47.78	0.0002	P	7.9
2	☐	20.000	20.236	2201.30	0.0080	P	7.1
3	☐	1000.000	1051.077	111970.97	0.4087	P	0.6
4	☐	2500.000	2624.960	271529.94	1.0205	P	0.2
5	☐	5000.000	5156.853	526029.06	2.0047	P	0.3
6	☐	10000.000	10295.955	1036807.04	4.0024	P	0.4
7	☐	20000.000	20261.495	2034987.65	7.8761	A	1.4
8	☐	100000.00	99906.628	8855372.23	38.8354	A	0.6

$$y = 3.8871\text{E-}004 * x + 1.7474\text{E-}004$$

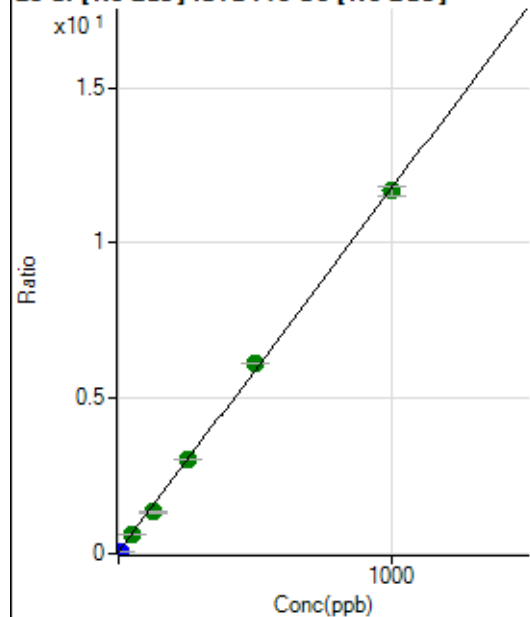
$$R = 1.0000$$

$$DL = 0.106$$

$$BEC = 0.4495$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	206468.01	0.0679	P	0.8
2	☐	10.000	0.096	210383.91	0.0690	P	0.4
3	☐	50.000	46.925	1858800.72	0.6163	A	1.5
4	☐	125.000	108.219	3966789.84	1.3327	A	1.2
5	☐	250.000	252.331	8825419.38	3.0170	A	0.6
6	☐	500.000	517.439	18162170.01	6.1155	A	0.5
7	☐	1000.000	993.048	33988517.83	11.6743	A	2.8
8	☐			319385.51	0.1207	P	3.2

$$y = 0.0117 * x + 0.0679$$

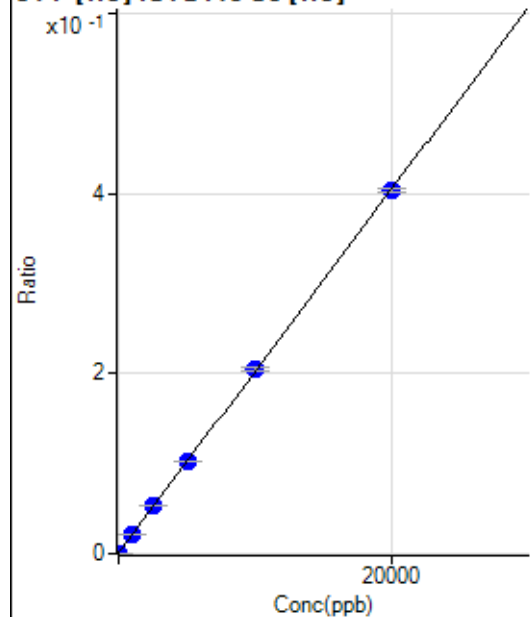
$$R = 0.9996$$

$$DL = 0.139$$

$$BEC = 5.808$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	-8.739	177.78	0.0007	P	10.7
2	☐	0.000	8.739	274.45	0.0010	P	7.5
3	☐	1000.000	988.042	5686.65	0.0208	P	4.1
4	☐	2500.000	2576.007	14046.52	0.0528	P	0.5
5	☐	5000.000	5045.078	26922.65	0.1026	P	0.4
6	☐	10000.000	10131.406	53159.62	0.2052	P	1.4
7	☐	20000.000	19914.124	104014.64	0.4026	P	0.9
8	☐			178.89	0.0008	P	2.4

$$y = 2.0174E-005 * x + 8.2647E-004$$

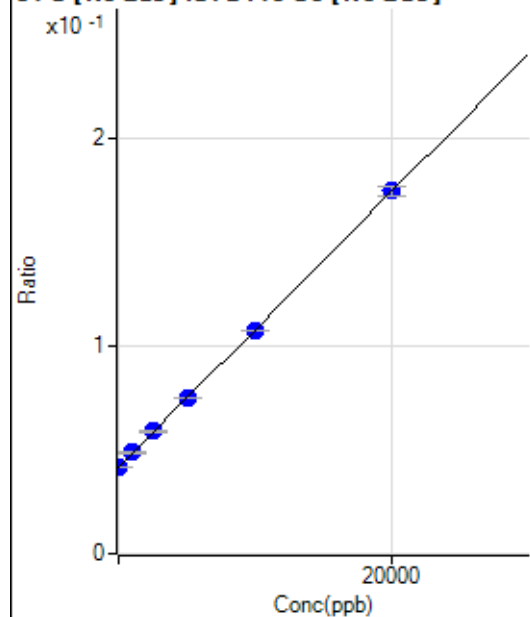
$$R = 1.0000$$

$$DL = 10.77$$

$$BEC = 40.97$$

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	16.075	127253.20	0.0418	P	0.6
2	☐	0.000	-16.075	126883.46	0.0416	P	1.7
3	☐	1000.000	1066.134	147183.89	0.0488	P	2.6
4	☐	2500.000	2588.380	175368.81	0.0589	P	0.7
5	☐	5000.000	5062.551	220385.45	0.0753	P	0.2
6	☐	10000.000	9851.794	318179.76	0.1071	P	0.1
7	☐	20000.000	20044.111	508922.44	0.1748	P	2.7
8	☐			110049.05	0.0416	P	2.0

$$y = 6.6389E-006 * x + 0.0417$$

R = 0.9999

DL = 221.8

BEC = 6286

Weight: <None>

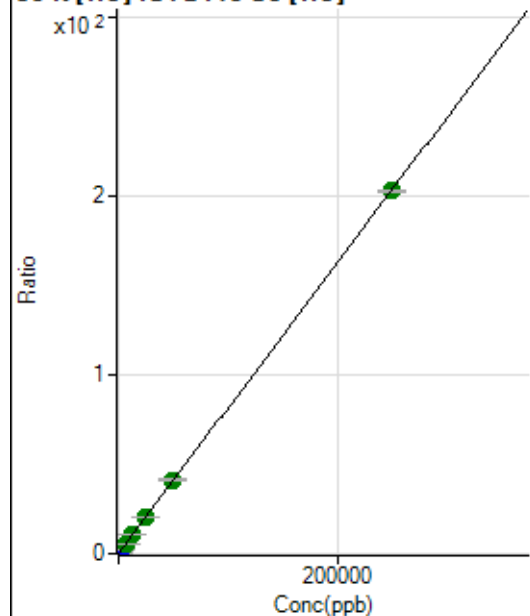
Min Conc: 0

35 Cl [No Gas] No available calibration points

	Rj 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	38347.11	0.1403	P	0.7
2	☐	500.000	490.486	147494.05	0.5388	P	0.8
3	☐	2500.000	2732.069	646517.35	2.3601	P	0.1
4	☐	6250.000	6497.796	1441987.04	5.4198	A	1.2
5	☐	12500.000	12820.826	2770164.72	10.5573	A	0.5
6	☐	25000.000	25466.352	5396284.99	20.8319	A	1.0
7	☐	50000.000	50586.950	10656677.62	41.2426	A	1.2
8	☐	250000.00	249811.43	46315034.86	203.1141	A	0.9

$$y = 8.1251E-004 * x + 0.1403$$

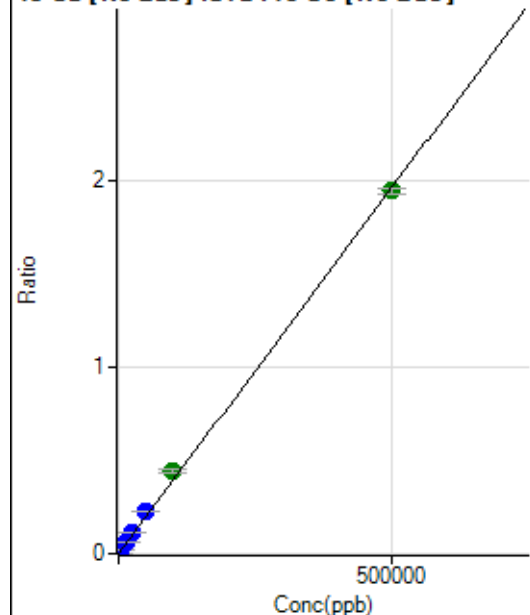
$$R = 1.0000$$

$$DL = 3.538$$

$$BEC = 172.6$$

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	77.78	0.0000	P	16.4
2	☐	500.000	511.247	6187.99	0.0020	P	2.4
3	☐	5000.000	6178.779	73153.81	0.0243	P	0.4
4	☐	12500.000	15137.578	176745.59	0.0594	P	0.5
5	☐	25000.000	29844.708	342365.12	0.1170	P	0.9
6	☐	50000.000	58653.338	683055.35	0.2300	P	1.0
7	☐	100000.00	113455.31	1294834.55	0.4449	A	4.4
8	☐	500000.00	496123.62	5146511.90	1.9452	A	1.4

$$y = 3.9208\text{E-}006 * x + 2.5577\text{E-}005$$

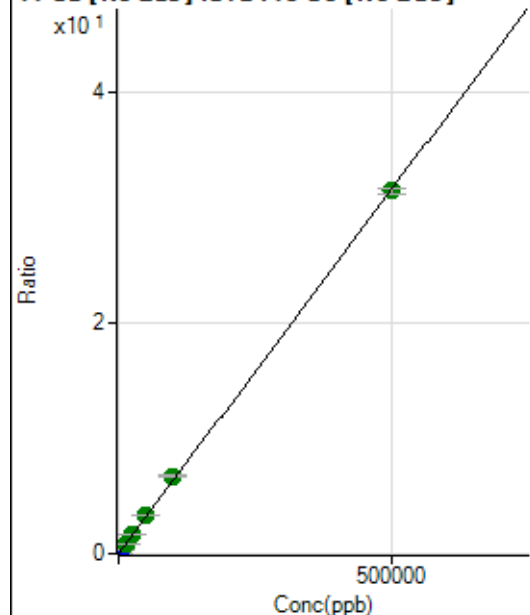
$$R = 0.9995$$

$$DL = 3.212$$

$$BEC = 6.523$$

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	6481.49	0.0021	P	1.4
2	☐	500.000	513.217	105209.12	0.0345	P	1.9
3	☐	5000.000	5899.758	1129287.16	0.3744	P	1.0
4	☐	12500.000	13873.426	2612276.05	0.8775	A	0.5
5	☐	25000.000	27091.168	5006704.16	1.7116	A	0.7
6	☐	50000.000	53186.823	9973437.98	3.3582	A	0.7
7	☐	100000.00	106481.87	19566873.60	6.7211	A	3.1
8	☐	500000.00	498237.03	83179676.54	31.4409	A	1.5

$$y = 6.3100\text{E-}005 * x + 0.0021$$

$$R = 0.9999$$

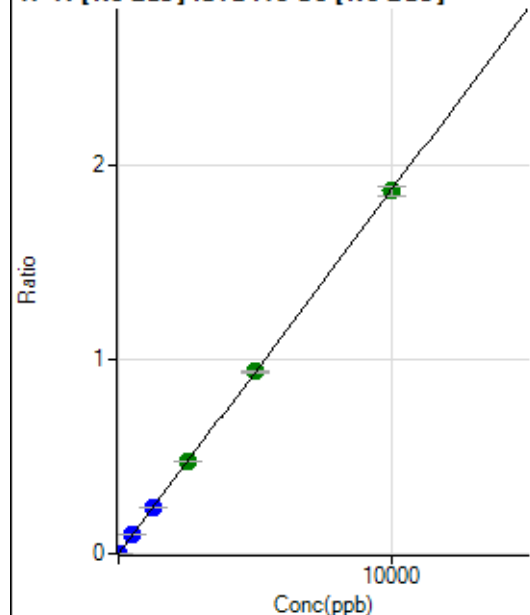
$$DL = 1.457$$

$$BEC = 33.77$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	50.00	0.0000	P	6.5
2	☐	5.000	4.754	2768.06	0.0009	P	4.1
3	☐	500.000	521.977	295391.04	0.0979	P	1.4
4	☐	1250.000	1290.235	720518.03	0.2421	P	0.4
5	☐	2500.000	2530.869	1388845.48	0.4748	A	1.3
6	☐	5000.000	5014.996	2794047.67	0.9408	A	1.1
7	☐	10000.000	9978.657	5449980.82	1.8719	A	2.9
8	☐			1929.04	0.0007	P	21.5

$$y = 1.8759\text{E-}004 * x + 1.6438\text{E-}005$$

$$R = 1.0000$$

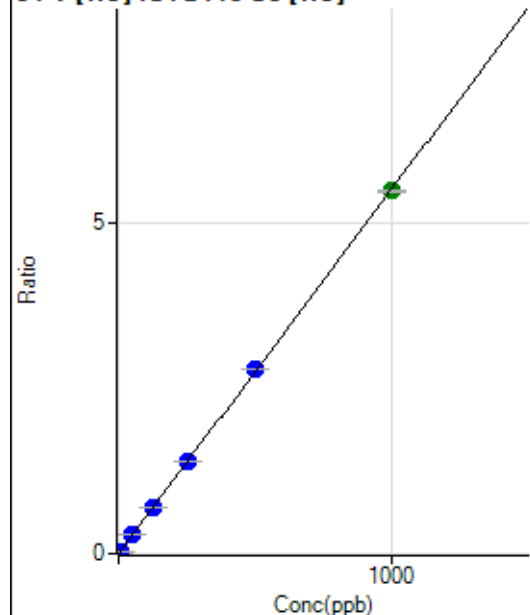
$$DL = 0.01708$$

$$BEC = 0.08762$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	7.78	0.0000	P	49.6
2	☐	5.000	4.719	7108.39	0.0260	P	4.0
3	☐	50.000	51.046	76892.25	0.2807	P	1.1
4	☐	125.000	127.966	187203.82	0.7036	P	0.5
5	☐	250.000	251.443	362761.32	1.3825	P	0.5
6	☐	500.000	506.555	721493.11	2.7852	P	0.3
7	☐	1000.000	995.940	1414960.79	5.4759	A	0.5
8	☐			535.57	0.0023	P	11.7

$$y = 0.0055 * x + 2.8468\text{E-}005$$

$$R = 1.0000$$

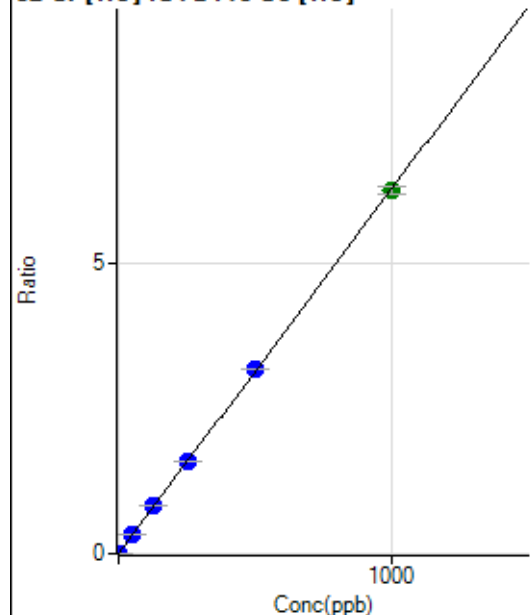
$$DL = 0.007712$$

$$BEC = 0.005178$$

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	701.13	0.0026	P	7.6
2	☐	2.000	1.911	3975.00	0.0145	P	1.8
3	☐	50.000	51.966	89765.92	0.3277	P	0.6
4	☐	125.000	129.544	216326.34	0.8131	P	0.5
5	☐	250.000	254.069	417773.57	1.5922	P	0.8
6	☐	500.000	506.625	821768.09	3.1723	P	0.5
7	☐	1000.000	995.004	1608982.16	6.2278	A	2.0
8	☐			11287.65	0.0495	P	1.6

$$y = 0.0063 * x + 0.0026$$

$$R = 1.0000$$

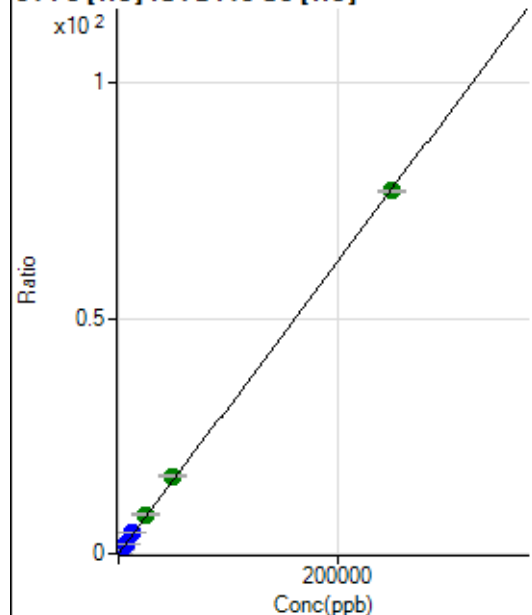
$$DL = 0.09337$$

$$BEC = 0.4099$$

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	1350.07	0.0049	P	4.9
2	☐	50.000	52.213	5771.16	0.0211	P	2.5
3	☐	2500.000	2867.163	244187.34	0.8914	P	0.5
4	☐	6250.000	7205.206	594022.36	2.2326	P	0.4
5	☐	12500.000	14066.228	1142433.00	4.3539	P	0.2
6	☐	25000.000	27000.387	2163810.87	8.3528	A	0.5
7	☐	50000.000	53074.830	4240922.89	16.4143	A	1.6
8	☐	250000.00	249079.13	17560811.96	77.0139	A	0.5

$$y = 3.0917E-004 * x + 0.0049$$

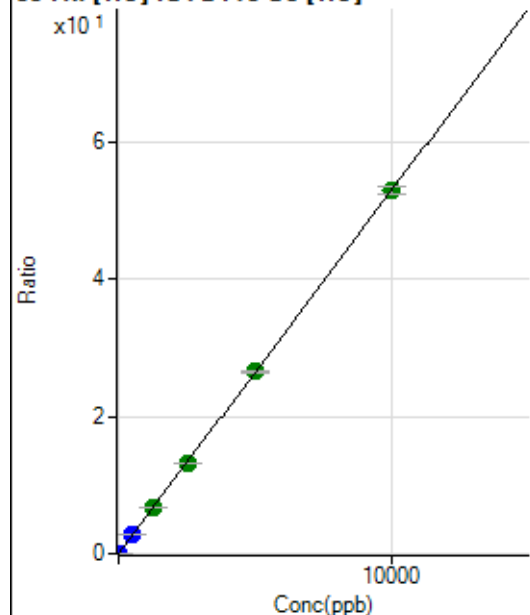
$$R = 0.9999$$

$$DL = 2.35$$

$$BEC = 15.97$$

Weight: <None>

Min Conc: 0

55 Mn [He] ISTD:45 Sc [He]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	143.33	0.0005	P	21.4
2	☐	1.000	1.014	1611.21	0.0059	P	2.5
3	☐	500.000	514.352	745302.73	2.7207	P	0.7
4	☐	1250.000	1280.996	1802609.77	6.7751	A	0.4
5	☐	2500.000	2503.397	3474049.95	13.2398	A	0.1
6	☐	5000.000	5009.047	6862599.62	26.4909	A	0.8
7	☐	10000.000	9990.035	13649326.05	52.8330	A	2.2
8	☐			7222.91	0.0317	P	2.3

$$y = 0.0053 * x + 5.2434E-004$$

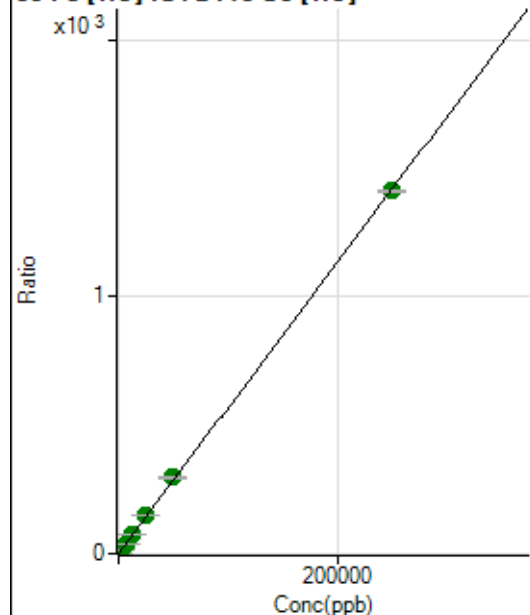
$$R = 1.0000$$

$$DL = 0.06365$$

$$BEC = 0.09915$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	10639.40	0.0389	P	0.8
2	☐	50.000	51.114	89809.05	0.3281	P	1.1
3	☐	2500.000	2708.486	4207915.32	15.3609	A	0.1
4	☐	6250.000	6800.507	10245907.63	38.5095	A	0.7
5	☐	12500.000	13268.696	19705994.01	75.1001	A	0.6
6	☐	25000.000	26423.138	38733158.03	149.5149	A	1.1
7	☐	50000.000	52208.359	76315024.97	295.3821	A	1.8
8	☐	250000.00	249361.73	321667977.4	1,410.680	A	0.8

$$y = 0.0057 * x + 0.0389$$

$$R = 1.0000$$

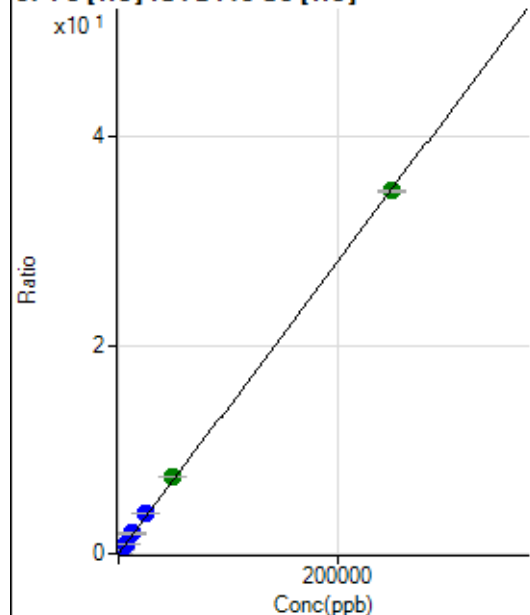
$$DL = 0.1587$$

$$BEC = 6.879$$

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	351.12	0.0013	P	15.2
2	☐	50.000	53.043	2380.21	0.0087	P	0.8
3	☐	2500.000	2832.969	108770.02	0.3971	P	0.1
4	☐	6250.000	7154.332	266269.16	1.0008	P	0.4
5	☐	12500.000	13892.737	509606.34	1.9422	P	0.8
6	☐	25000.000	27732.392	1003975.57	3.8756	P	0.2
7	☐	50000.000	52677.852	1901755.18	7.3606	A	1.3
8	☐	250000.00	249095.61	7935385.85	34.8009	A	0.6

$$y = 1.3970\text{E-}004 * x + 0.0013$$

R = 0.9999

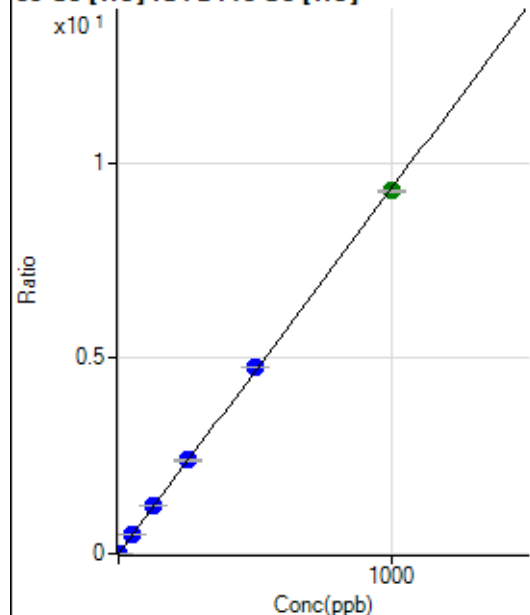
DL = 4.19

BEC = 9.193

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	37.78	0.0001	P	13.6
2	☐	1.000	1.006	2614.70	0.0096	P	2.5
3	☐	50.000	52.253	133927.57	0.4889	P	0.8
4	☐	125.000	131.108	326318.03	1.2265	P	0.2
5	☐	250.000	255.843	627954.38	2.3932	P	0.4
6	☐	500.000	508.703	1232649.02	4.7583	P	0.2
7	☐	1000.000	993.312	2400732.88	9.2911	A	0.8
8	☐			2596.92	0.0114	P	8.5

$$y = 0.0094 * x + 1.3819\text{E-}004$$

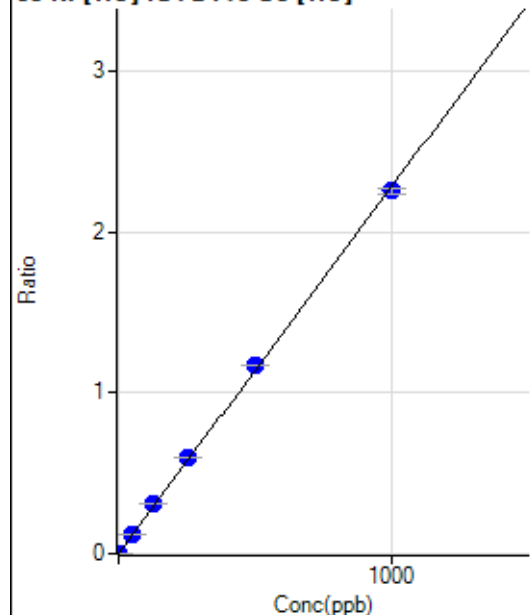
R = 0.9999

DL = 0.006016

BEC = 0.01477

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	118.89	0.0004	P	11.9
2	☐	1.000	1.000	743.36	0.0027	P	3.6
3	☐	50.000	53.813	33732.33	0.1231	P	1.5
4	☐	125.000	135.483	82310.68	0.3094	P	0.7
5	☐	250.000	261.484	156563.73	0.5967	P	0.3
6	☐	500.000	513.632	303506.92	1.1716	P	0.2
7	☐	1000.000	988.812	582662.27	2.2551	P	1.3
8	☐			1869.02	0.0082	P	1.3

$$y = 0.0023 * x + 4.3497E-004$$

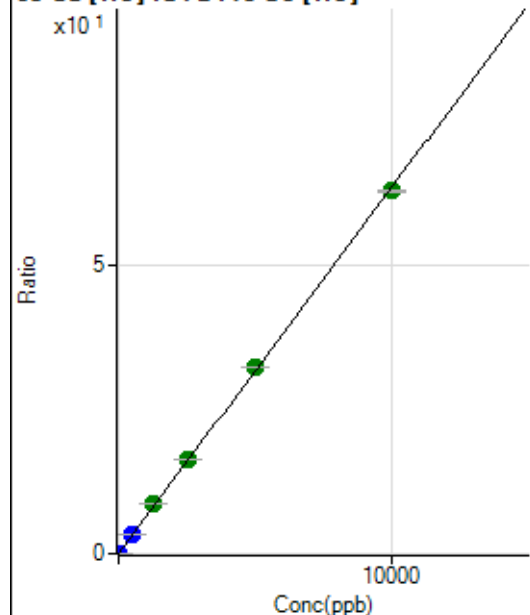
R = 0.9998

DL = 0.06821

BEC = 0.1908

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	540.01	0.0020	P	4.6
2	☐	2.000	2.010	4026.14	0.0147	P	3.7
3	☐	500.000	531.096	922305.86	3.3669	P	0.2
4	☐	1250.000	1358.154	2289964.12	8.6069	A	0.7
5	☐	2500.000	2580.800	4290990.98	16.3532	A	0.6
6	☐	5000.000	5100.206	8371105.22	32.3155	A	0.8
7	☐	10000.000	9914.623	16232169.20	62.8183	A	0.4
8	☐			3637.15	0.0160	P	5.7

$$y = 0.0063 * x + 0.0020$$

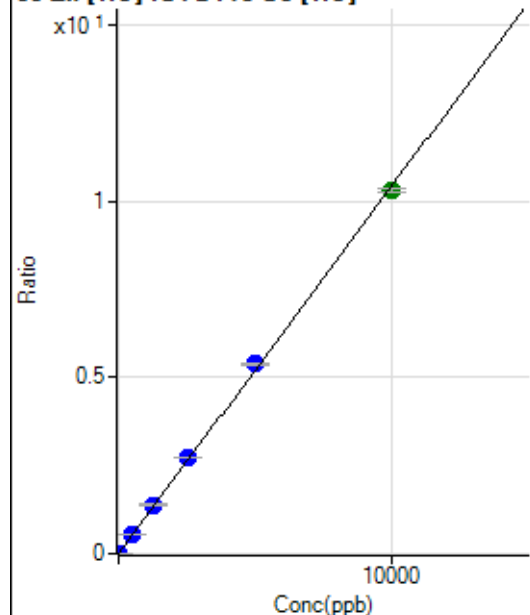
R = 0.9999

DL = 0.04328

BEC = 0.3118

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	92.23	0.0003	P	24.3
2	☐	2.000	2.128	700.02	0.0026	P	2.1
3	☐	500.000	530.189	151580.89	0.5533	P	0.5
4	☐	1250.000	1334.281	370368.28	1.3920	P	0.9
5	☐	2500.000	2603.904	712739.42	2.7163	P	0.7
6	☐	5000.000	5166.084	1395945.81	5.3887	P	0.4
7	☐	10000.000	9878.937	2662754.77	10.3044	A	1.1
8	☐			7573.10	0.0332	P	3.2

$$y = 0.0010 * x + 3.3748E-004$$

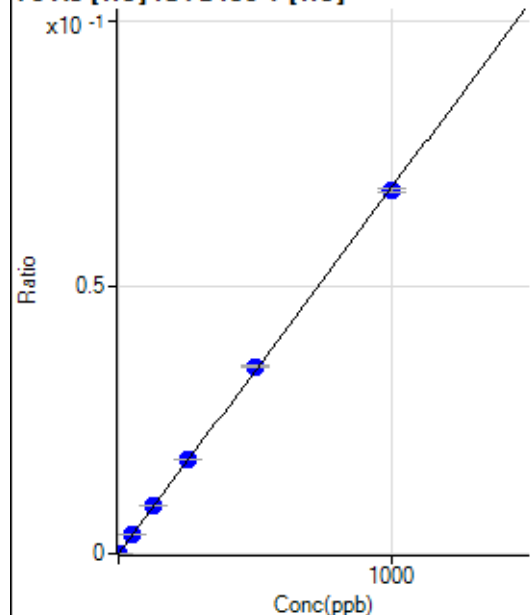
$$R = 0.9997$$

$$DL = 0.2356$$

$$BEC = 0.3236$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	6.67	0.0000	P	49.3
2	☐	1.000	1.131	225.56	0.0001	P	22.0
3	☐	50.000	52.949	10209.15	0.0036	P	3.3
4	☐	125.000	131.588	24750.68	0.0090	P	1.7
5	☐	250.000	258.105	47806.71	0.0177	P	0.9
6	☐	500.000	511.365	95037.18	0.0351	P	0.8
7	☐	1000.000	991.320	184906.96	0.0681	P	1.1
8	☐			53.33	0.0000	P	17.4

$$y = 6.8647E-005 * x + 2.3656E-006$$

$$R = 0.9999$$

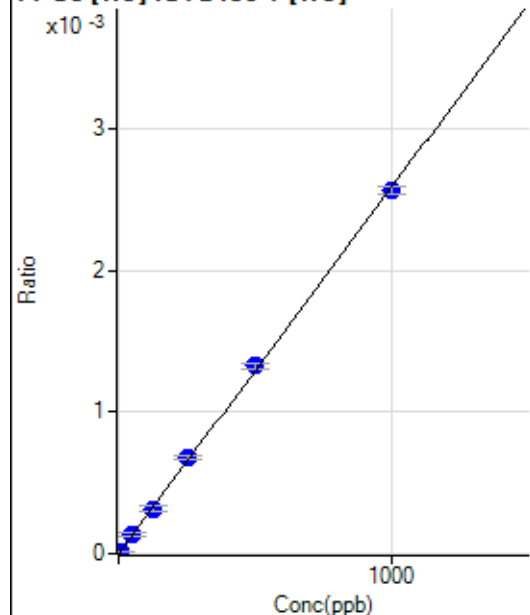
$$DL = 0.05099$$

$$BEC = 0.03446$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	0.00	0.0000	P	
2	☐	5.000	4.873	35.55	0.0000	P	10.2
3	☐	50.000	53.178	385.56	0.0001	P	13.9
4	☐	125.000	121.606	861.15	0.0003	P	11.6
5	☐	250.000	262.895	1832.36	0.0007	P	3.8
6	☐	500.000	513.432	3591.58	0.0013	P	3.4
7	☐	1000.000	990.326	6955.04	0.0026	P	2.1
8	☐			2.22	0.0000	P	86.6

$$y = 2.5843\text{E-}006 * x + 0.0000\text{E+}000$$

$$R = 0.9997$$

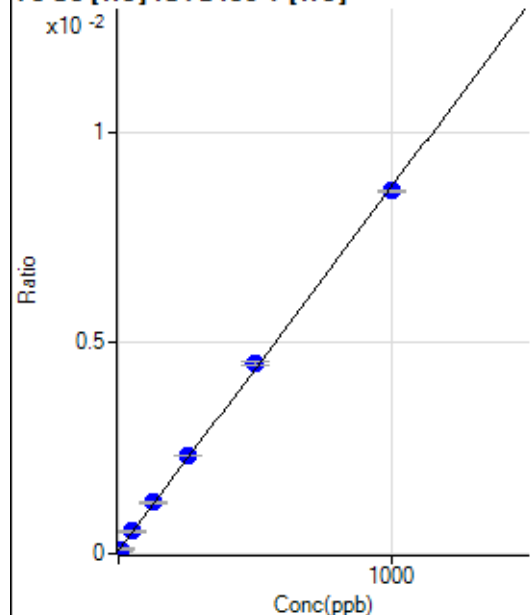
$$DL = 0$$

$$BEC = 0$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	194.45	0.0001	P	16.5
2	☐	5.000	4.533	305.56	0.0001	P	16.0
3	☐	50.000	53.637	1492.31	0.0005	P	4.1
4	☐	125.000	132.268	3314.85	0.0012	P	6.7
5	☐	250.000	260.792	6254.70	0.0023	P	0.9
6	☐	500.000	514.349	12195.09	0.0045	P	2.7
7	☐	1000.000	989.039	23367.39	0.0086	P	0.7
8	☐			175.56	0.0001	P	8.3

$$y = 8.6247\text{E-}006 * x + 6.9098\text{E-}005$$

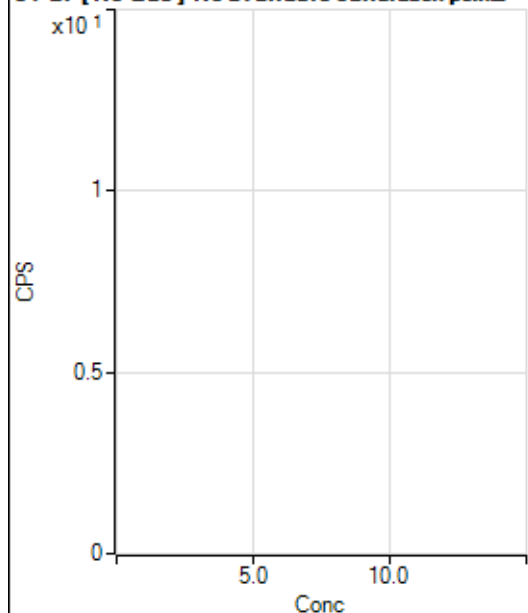
$$R = 0.9998$$

$$DL = 3.958$$

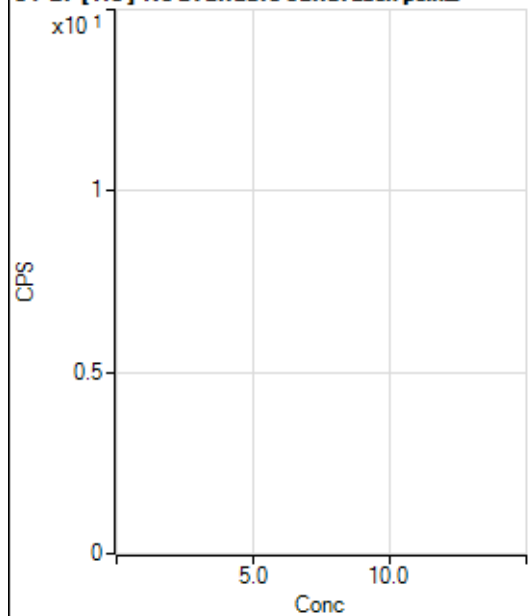
$$BEC = 8.012$$

Weight: <None>

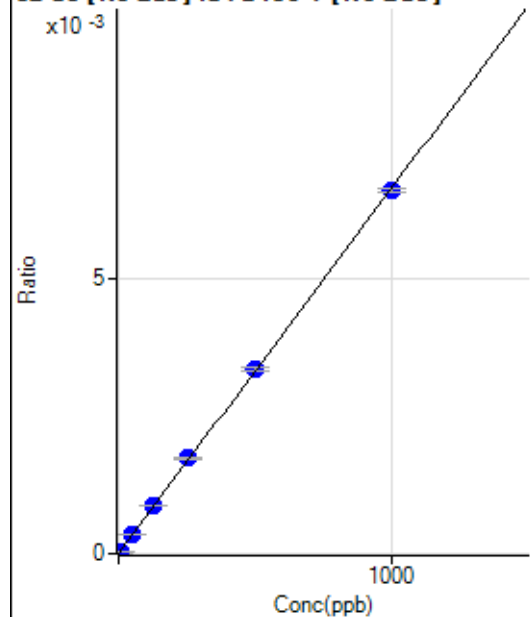
Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			35948.17		P	0.2
2	☐			35825.68		P	1.4
3	☐			35830.15		P	1.7
4	☐			34422.39		P	0.6
5	☐			34149.55		P	2.4
6	☐			33606.08		P	1.4
7	☐			32850.02		P	1.2
8	☐			30970.26		P	1.5

81 Br [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			78.89		P	19.1
2	☐			75.56		P	12.7
3	☐			54.45		P	12.7
4	☐			58.89		P	8.6
5	☐			48.89		P	25.8
6	☐			48.89		P	3.9
7	☐			67.78		P	12.4
8	☐			56.67		P	25.6

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	41.16	0.0000	P	25.1
2	☐	5.000	4.712	387.83	0.0000	P	5.9
3	☐	50.000	53.149	3894.82	0.0004	P	0.8
4	☐	125.000	132.453	9506.95	0.0009	P	0.9
5	☐	250.000	261.246	18687.48	0.0017	P	1.4
6	☐	500.000	506.189	36876.39	0.0034	P	1.5
7	☐	1000.000	993.006	71387.07	0.0066	P	1.0
8	☐			168.89	0.0000	P	15.1

$$y = 6.6229\text{E-}006 * x + 3.6967\text{E-}006$$

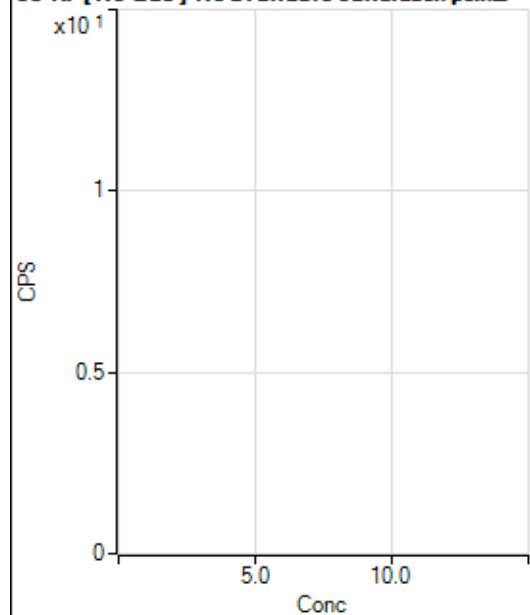
$$R = 0.9999$$

$$DL = 0.4196$$

$$BEC = 0.5582$$

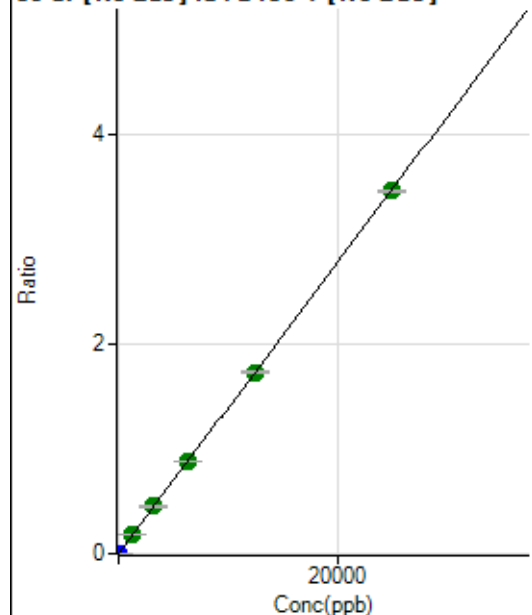
Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐			55.55		P	24.2
2	☐			53.33		P	33.1
3	☐			63.33		P	27.9
4	☐			78.89		P	16.0
5	☐			62.22		P	17.2
6	☐			82.22		P	13.0
7	☐			110.00		P	10.9
8	☐			86.67		P	16.8

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	128.89	0.0000	P	10.1
2	☐	1.000	0.923	1548.98	0.0001	P	0.6
3	☐	1250.000	1305.441	1980735.73	0.1809	A	0.8
4	☐	3125.000	3253.214	4863564.51	0.4507	A	1.1
5	☐	6250.000	6371.189	9512934.51	0.8827	A	0.6
6	☐	12500.000	12485.556	19006024.44	1.7298	A	1.7
7	☐	25000.000	24958.126	37511489.44	3.4577	A	0.6
8	☐			16653.06	0.0017	P	17.6

$$y = 1.3854\text{E-}004 * x + 1.1572\text{E-}005$$

$$R = 1.0000$$

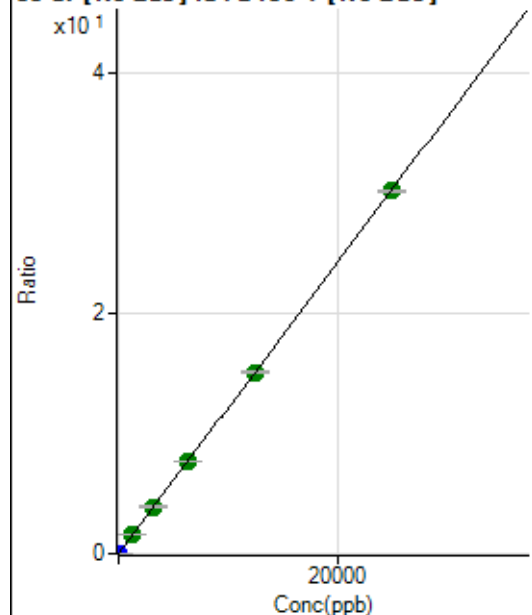
$$DL = 0.02543$$

$$BEC = 0.08352$$

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	147.78	0.0000	P	34.9
2	☐	1.000	0.920	12487.62	0.0011	P	2.9
3	☐	1250.000	1293.285	17102587.52	1.5618	A	0.5
4	☐	3125.000	3240.727	42231594.09	3.9137	A	1.1
5	☐	6250.000	6365.693	82851202.10	7.6875	A	0.6
6	☐	12500.000	12496.684	165829213.0	15.0916	A	0.7
7	☐	25000.000	24956.105	326955166.2	30.1382	A	0.8
8	☐			142906.01	0.0150	P	16.3

$$y = 0.0012 * x + 1.3259\text{E-}005$$

$$R = 1.0000$$

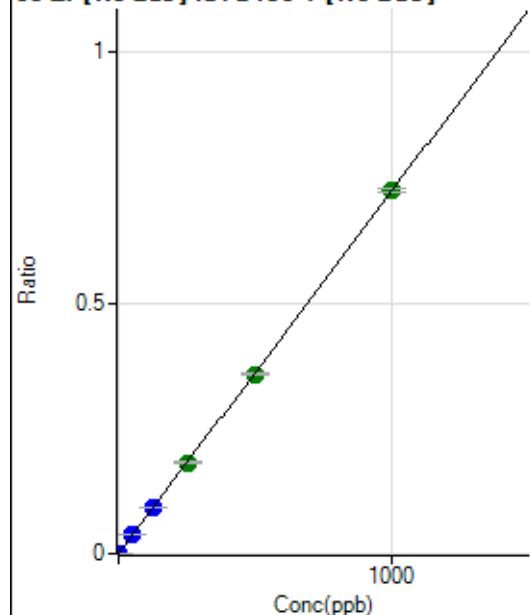
$$DL = 0.01149$$

$$BEC = 0.01098$$

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	336.67	0.0000	P	5.0
2	☐	1.000	0.879	7384.13	0.0007	P	4.2
3	☐	50.000	50.709	401177.42	0.0366	P	0.6
4	☐	125.000	127.845	996266.17	0.0923	P	0.6
5	☐	250.000	251.091	1953845.40	0.1813	A	1.0
6	☐	500.000	495.479	3930527.23	0.3577	A	0.8
7	☐	1000.000	1001.597	7844233.42	0.7231	A	0.9
8	☐			3128.15	0.0003	P	17.5

$$y = 7.2188\text{E-}004 * x + 3.0222\text{E-}005$$

$$R = 1.0000$$

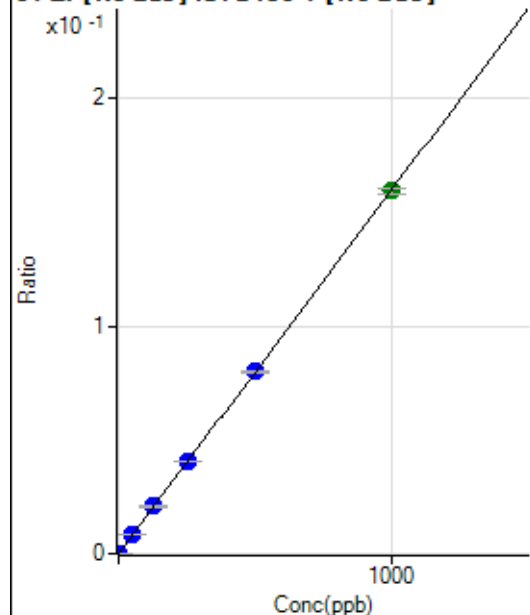
$$DL = 0.006332$$

$$BEC = 0.04187$$

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	60.00	0.0000	P	22.2
2	☐	1.000	0.857	1581.21	0.0001	P	1.3
3	☐	50.000	51.469	90063.06	0.0082	P	1.3
4	☐	125.000	129.767	223676.11	0.0207	P	0.7
5	☐	250.000	253.575	436465.63	0.0405	P	0.6
6	☐	500.000	500.647	878524.78	0.0800	P	1.3
7	☐	1000.000	998.114	1729183.72	0.1594	A	1.5
8	☐			712.25	0.0001	P	23.1

$$y = 1.5969\text{E-}004 * x + 5.3869\text{E-}006$$

$$R = 1.0000$$

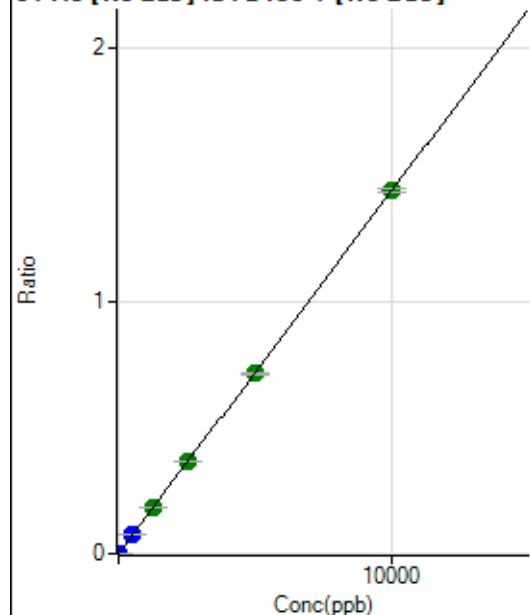
$$DL = 0.0225$$

$$BEC = 0.03373$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	111.11	0.0000	P	12.6
2	☐	5.000	5.347	8641.51	0.0008	P	1.1
3	☐	500.000	516.386	811812.71	0.0741	P	0.8
4	☐	1250.000	1286.650	1993370.44	0.1847	A	0.5
5	☐	2500.000	2524.378	3905620.32	0.3624	A	0.4
6	☐	5000.000	4969.101	7838169.74	0.7133	A	0.7
7	☐	10000.000	10003.954	15579560.18	1.4361	A	0.9
8	☐			6420.38	0.0007	P	13.5

$$y = 1.4355\text{E-}004 * x + 9.9806\text{E-}006$$

$$R = 1.0000$$

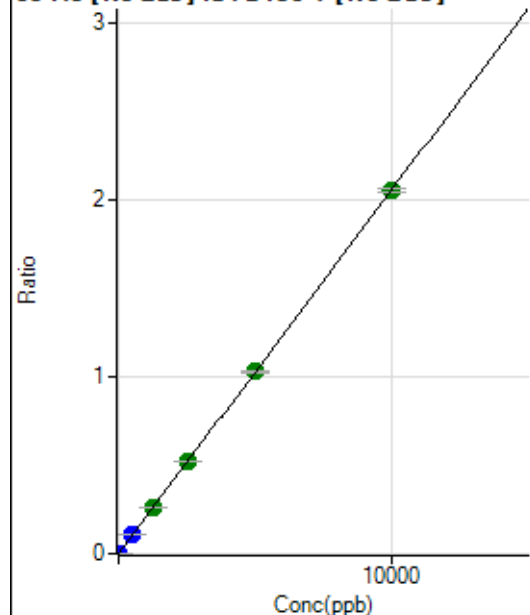
$$DL = 0.02618$$

$$BEC = 0.06953$$

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	91.11	0.0000	P	10.0
2	☐	5.000	4.542	10466.04	0.0009	P	1.1
3	☐	500.000	517.469	1164962.53	0.1064	P	0.8
4	☐	1250.000	1285.762	2852695.83	0.2643	A	0.7
5	☐	2500.000	2524.826	5593939.64	0.5191	A	0.9
6	☐	5000.000	5014.618	11327953.86	1.0309	A	0.9
7	☐	10000.000	9981.141	22260619.11	2.0519	A	1.2
8	☐			8601.56	0.0009	P	18.7

$$y = 2.0558\text{E-}004 * x + 8.1785\text{E-}006$$

$$R = 1.0000$$

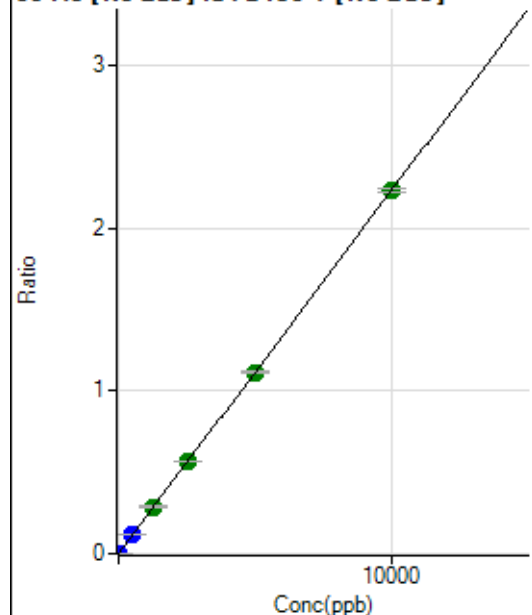
$$DL = 0.01198$$

$$BEC = 0.03978$$

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	62.22	0.0000	P	14.3
2	☐	5.000	4.611	11494.59	0.0010	P	1.5
3	☐	500.000	520.804	1272531.18	0.1162	P	1.1
4	☐	1250.000	1293.794	3115003.01	0.2887	A	1.7
5	☐	2500.000	2535.254	6096581.99	0.5657	A	0.2
6	☐	5000.000	4989.877	12233707.04	1.1134	A	1.3
7	☐	10000.000	9989.734	24181336.31	2.2290	A	0.9
8	☐			19244.00	0.0020	P	10.5

$$y = 2.2313\text{E-}004 * x + 5.5915\text{E-}006$$

$$R = 1.0000$$

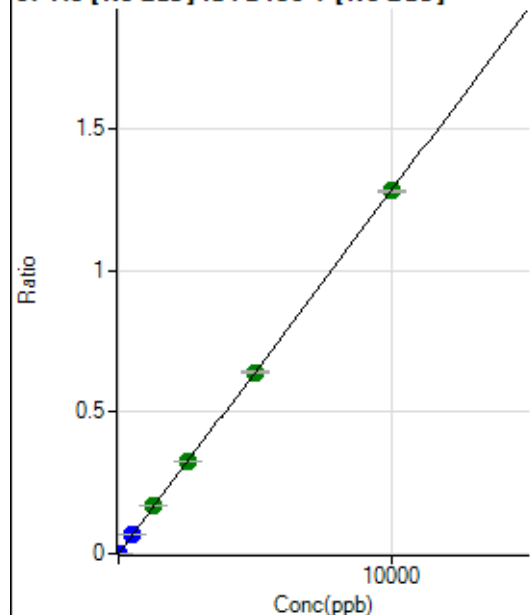
$$DL = 0.01072$$

$$BEC = 0.02506$$

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	25.56	0.0000	P	32.1
2	☐	5.000	4.560	6530.40	0.0006	P	4.0
3	☐	500.000	520.477	731849.64	0.0668	P	1.0
4	☐	1250.000	1305.312	1808705.34	0.1676	A	1.1
5	☐	2500.000	2554.552	3535133.80	0.3280	A	0.7
6	☐	5000.000	4987.782	7037432.67	0.6405	A	1.2
7	☐	10000.000	9984.534	13908890.63	1.2821	A	0.5
8	☐			5138.77	0.0005	P	21.4

$$y = 1.2841\text{E-}004 * x + 2.2915\text{E-}006$$

$$R = 1.0000$$

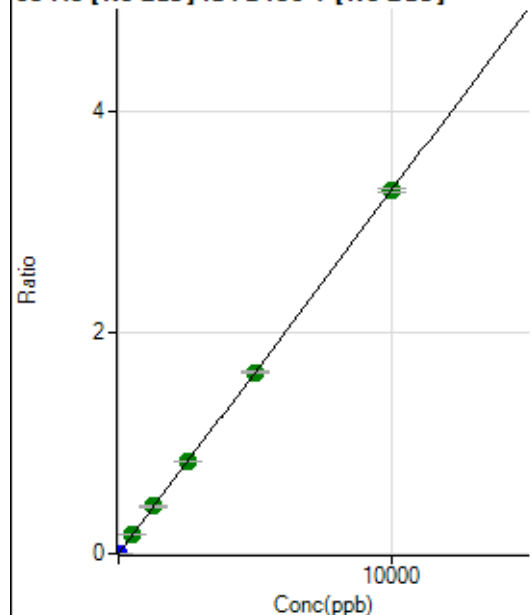
$$DL = 0.01718$$

$$BEC = 0.01785$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	24.45	0.0000	P	54.5
2	☐	5.000	4.613	16888.77	0.0015	P	0.4
3	☐	500.000	515.569	1857103.90	0.1696	A	1.2
4	☐	1250.000	1298.426	4609068.65	0.4271	A	1.1
5	☐	2500.000	2539.158	9001684.94	0.8353	A	0.4
6	☐	5000.000	4994.974	18054408.76	1.6431	A	1.1
7	☐	10000.000	9985.892	35636229.47	3.2849	A	1.1
8	☐			12299.91	0.0013	P	23.4

$$y = 3.2895\text{E-}004 * x + 2.1898\text{E-}006$$

$$R = 1.0000$$

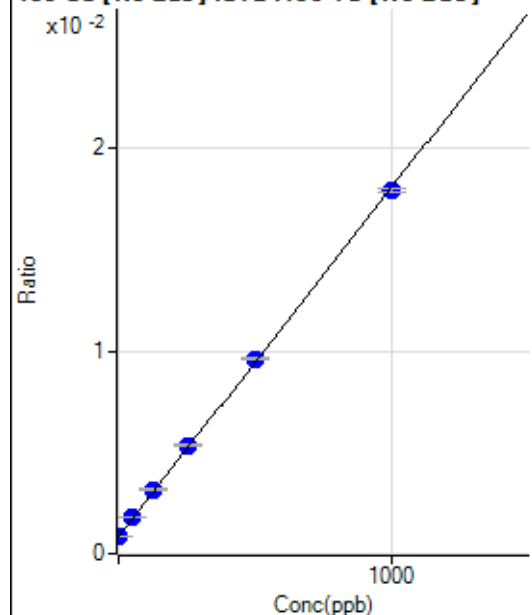
$$DL = 0.01088$$

$$BEC = 0.006657$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	5914.59	0.0008	P	5.1
2	☐	1.000	-0.016	5896.81	0.0008	P	2.5
3	☐	50.000	56.226	12465.45	0.0018	P	0.1
4	☐	125.000	134.253	21701.86	0.0032	P	2.1
5	☐	250.000	261.533	37354.67	0.0053	P	1.5
6	☐	500.000	510.083	67562.77	0.0096	P	1.4
7	☐	1000.000	990.608	125422.50	0.0179	P	1.0
8	☐			4977.56	0.0008	P	3.5

$$y = 1.7209\text{E-}005 * x + 8.4786\text{E-}004$$

$$R = 0.9998$$

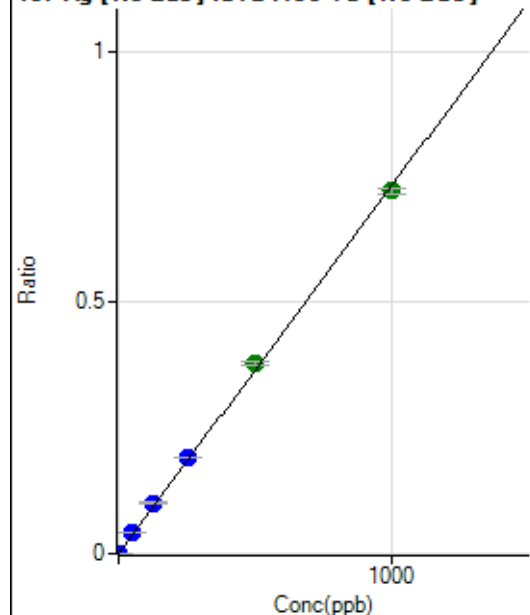
$$DL = 7.557$$

$$BEC = 49.27$$

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	58.89	0.0000	P	28.1
2	☐	1.000	0.955	4916.44	0.0007	P	1.6
3	☐	50.000	56.271	282681.71	0.0412	P	0.3
4	☐	125.000	138.109	694121.37	0.1010	P	1.2
5	☐	250.000	261.125	1334080.92	0.1910	P	1.4
6	☐	500.000	516.819	2653482.46	0.3781	A	1.4
7	☐	1000.000	986.857	5059308.40	0.7219	A	1.9
8	☐			2619.16	0.0004	P	11.5

$$y = 7.3150E-004 * x + 8.4340E-006$$

$$R = 0.9997$$

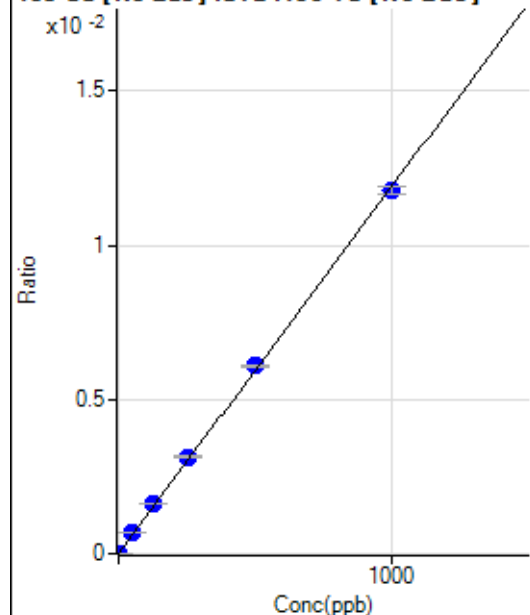
$$DL = 0.009716$$

$$BEC = 0.01153$$

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	10.00	0.0000	P	67.1
2	☐	1.000	1.142	104.44	0.0000	P	5.9
3	☐	50.000	55.811	4566.32	0.0007	P	2.6
4	☐	125.000	135.816	11109.90	0.0016	P	2.8
5	☐	250.000	263.193	21869.90	0.0031	P	1.6
6	☐	500.000	512.440	42786.22	0.0061	P	1.3
7	☐	1000.000	988.839	82429.01	0.0118	P	2.0
8	☐			62.22	0.0000	P	27.0

$$y = 1.1893E-005 * x + 1.4358E-006$$

$$R = 0.9998$$

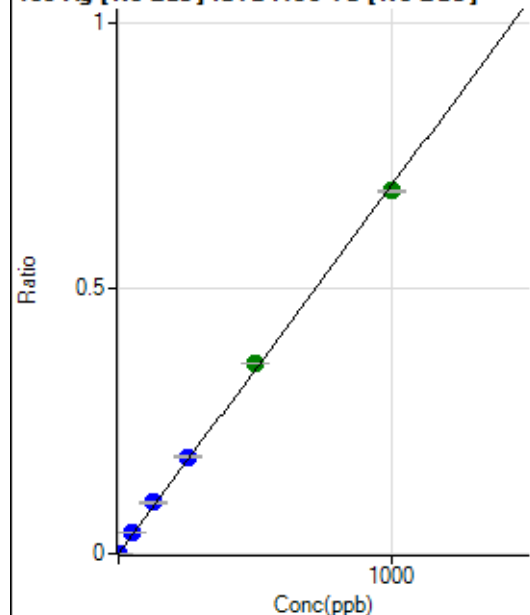
$$DL = 0.243$$

$$BEC = 0.1207$$

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	12.22	0.0000	P	87.8
2	☐	1.000	0.941	4547.43	0.0007	P	4.0
3	☐	50.000	56.064	266508.62	0.0388	P	1.2
4	☐	125.000	138.494	658818.90	0.0959	P	0.9
5	☐	250.000	262.555	1269646.97	0.1818	P	1.7
6	☐	500.000	518.102	2517862.98	0.3587	A	0.4
7	☐	1000.000	985.821	4783818.99	0.6826	A	0.8
8	☐			2573.59	0.0004	P	10.5

$$y = 6.9239\text{E-}004 * x + 1.7546\text{E-}006$$

$$R = 0.9996$$

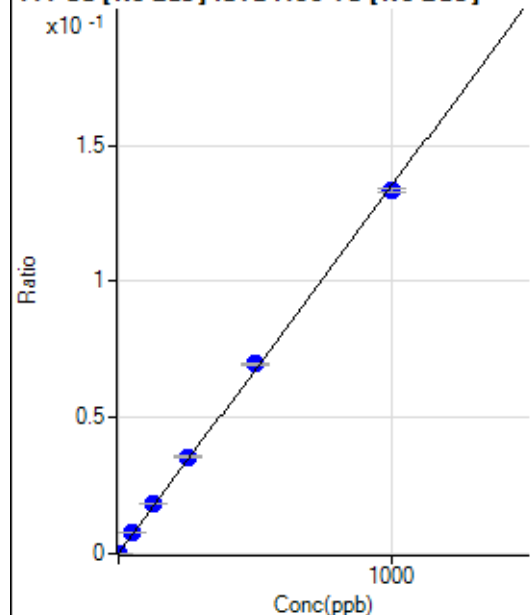
$$DL = 0.006673$$

$$BEC = 0.002534$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	588.91	0.0001	P	5.8
2	☐	1.000	1.006	1531.06	0.0002	P	5.8
3	☐	50.000	55.856	52328.10	0.0076	P	1.7
4	☐	125.000	137.133	127734.05	0.0186	P	0.8
5	☐	250.000	262.945	248436.62	0.0356	P	1.2
6	☐	500.000	515.915	489301.02	0.0697	P	1.2
7	☐	1000.000	986.997	934159.15	0.1333	P	1.2
8	☐			919.77	0.0001	P	4.0

$$y = 1.3496\text{E-}004 * x + 8.4419\text{E-}005$$

$$R = 0.9997$$

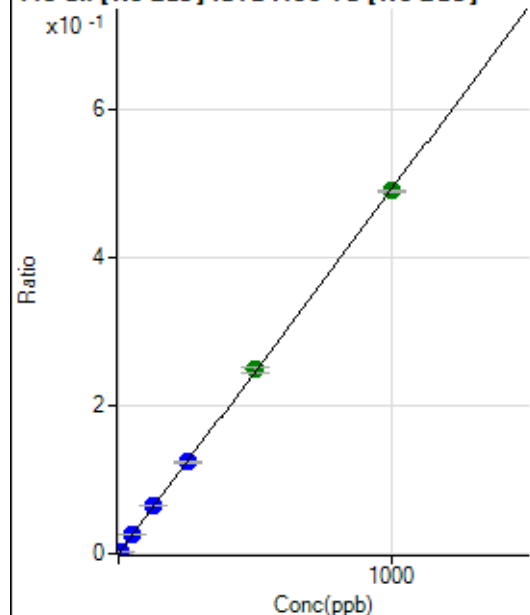
$$DL = 0.1082$$

$$BEC = 0.6255$$

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	548.90	0.0001	P	5.9
2	☐	5.000	4.759	16866.63	0.0024	P	1.9
3	☐	50.000	53.027	180016.83	0.0262	P	0.1
4	☐	125.000	130.626	442968.20	0.0645	P	0.8
5	☐	250.000	250.720	863703.15	0.1237	P	1.6
6	☐	500.000	505.896	1750922.77	0.2495	A	3.2
7	☐	1000.000	996.019	3441632.59	0.4911	A	0.6
8	☐			3038.13	0.0005	P	8.9

$$y = 4.9294\text{E-}004 * x + 7.8689\text{E-}005$$

$$R = 1.0000$$

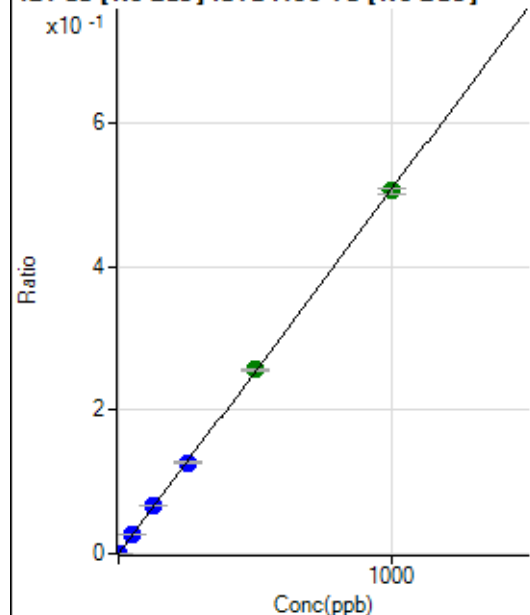
$$DL = 0.02825$$

$$BEC = 0.1596$$

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	18.89	0.0000	P	27.1
2	☐	2.000	1.859	6584.91	0.0009	P	3.5
3	☐	50.000	52.075	181516.78	0.0264	P	0.8
4	☐	125.000	129.623	452143.21	0.0658	P	0.4
5	☐	250.000	250.009	886385.09	0.1269	P	1.9
6	☐	500.000	506.561	1804960.69	0.2572	A	1.0
7	☐	1000.000	996.036	3543789.15	0.5056	A	1.6
8	☐			2399.12	0.0004	P	8.3

$$y = 5.0765\text{E-}004 * x + 2.7080\text{E-}006$$

$$R = 1.0000$$

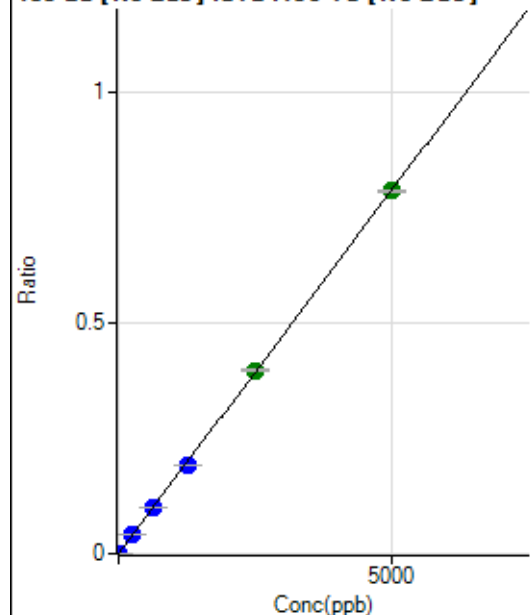
$$DL = 0.004329$$

$$BEC = 0.005334$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	18.89	0.0000	P	9.7
2	☐	10.000	9.017	9910.20	0.0014	P	1.9
3	☐	250.000	254.433	275481.90	0.0401	P	1.0
4	☐	625.000	633.473	686380.80	0.0999	P	0.5
5	☐	1250.000	1221.033	1344805.58	0.1926	P	1.4
6	☐	2500.000	2523.350	2792965.83	0.3979	A	0.8
7	☐	5000.000	4994.288	5519939.47	0.7876	A	0.7
8	☐			4032.84	0.0006	P	9.7

$$y = 1.5770\text{E-}004 * x + 2.7067\text{E-}006$$

$$R = 1.0000$$

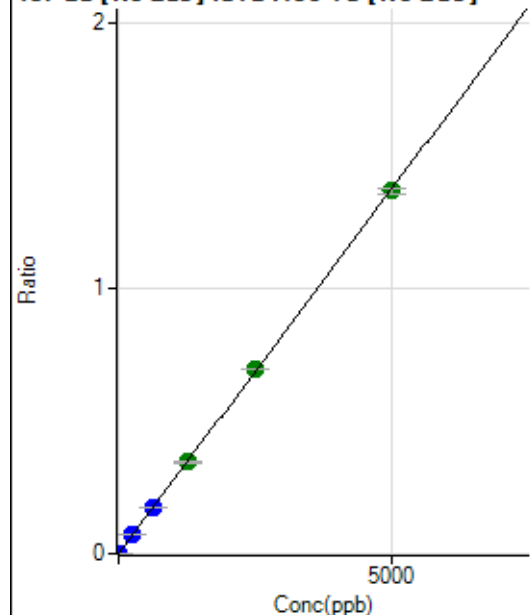
$$DL = 0.005006$$

$$BEC = 0.01716$$

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	23.33	0.0000	P	38.3
2	☐	10.000	9.042	17309.51	0.0025	P	1.5
3	☐	250.000	255.585	482262.90	0.0702	P	1.1
4	☐	625.000	633.220	1195728.06	0.1740	P	0.5
5	☐	1250.000	1261.868	2421996.91	0.3468	A	2.0
6	☐	2500.000	2535.354	4890774.89	0.6968	A	0.7
7	☐	5000.000	4978.051	9588781.32	1.3681	A	1.3
8	☐			6982.90	0.0011	P	9.2

$$y = 2.7483\text{E-}004 * x + 3.3487\text{E-}006$$

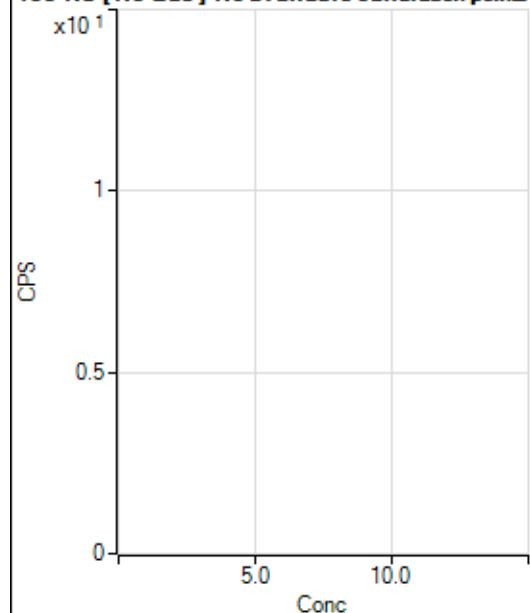
$$R = 1.0000$$

$$DL = 0.01401$$

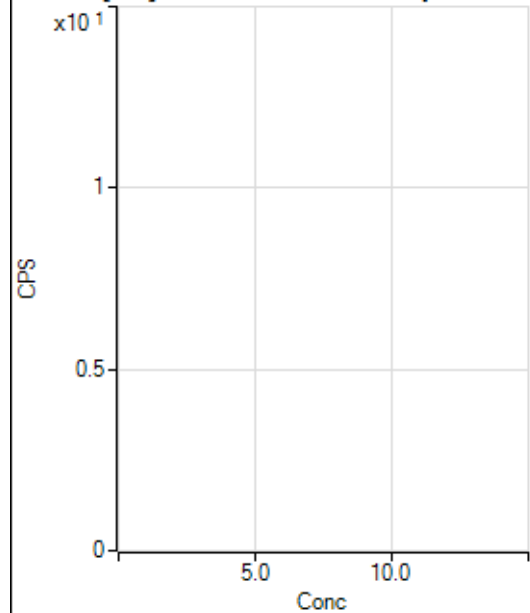
$$BEC = 0.01218$$

Weight: <None>

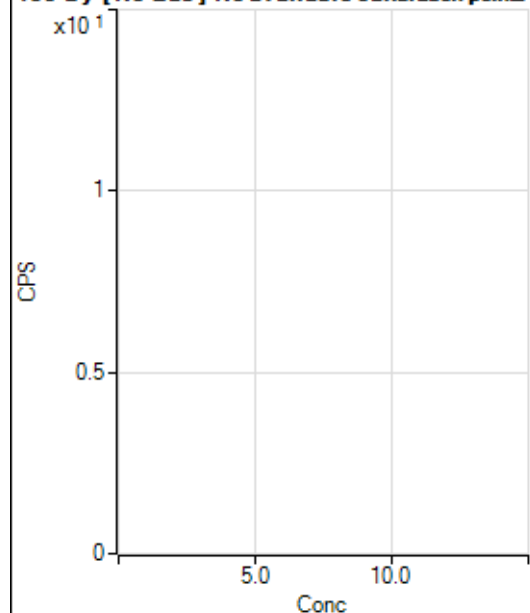
Min Conc: 0

150 Nd [No Gas] No available calibration points

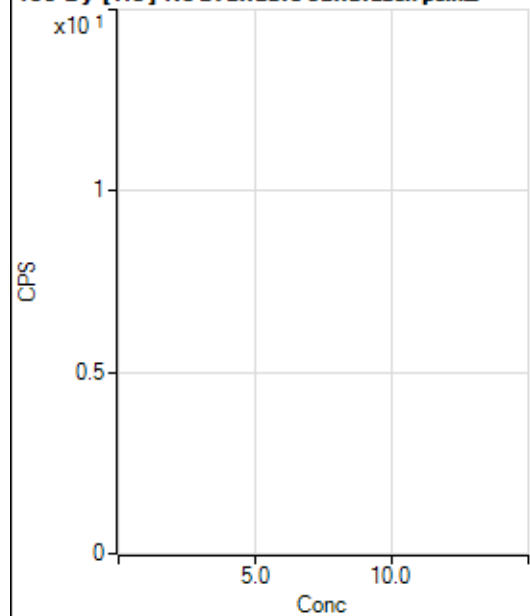
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			3.33		P	173.
2	☐			7.78		P	24.7
3	☐			73.33		P	4.5
4	☐			173.34		P	12.0
5	☐			298.90		P	25.4
6	☐			557.79		P	5.7
7	☐			1168.95		P	5.1
8	☐			32.22		P	39.2

150 Nd [He] No available calibration points

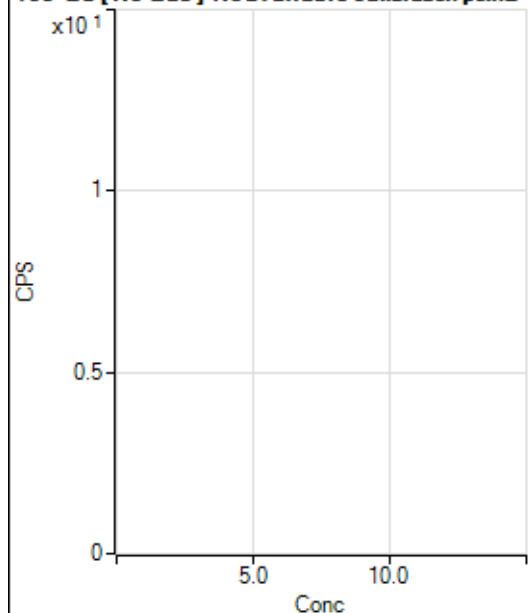
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			3.33		P	100.
2	☐			4.45		P	86.6
3	☐			16.67		P	52.9
4	☐			46.67		P	50.0
5	☐			88.89		P	17.7
6	☐			144.45		P	20.7
7	☐			266.67		P	21.8
8	☐			16.67		P	20.0

156 Dy [No Gas] No available calibration points

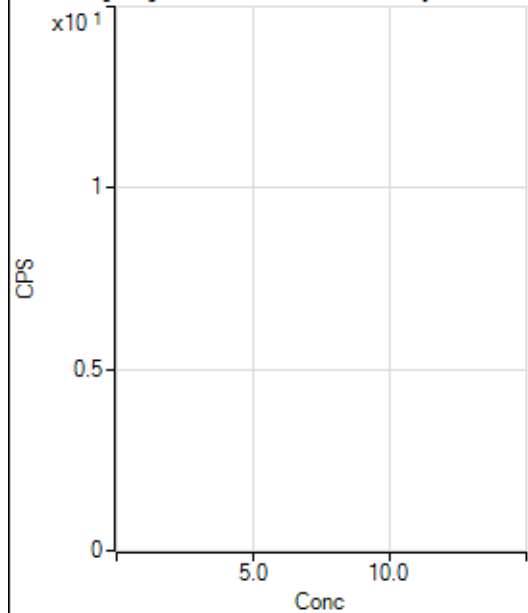
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			8.89		P	21.6
2	☐			7.78		P	49.5
3	☐			22.22		P	31.2
4	☐			64.45		P	31.6
5	☐			112.22		P	9.5
6	☐			223.34		P	7.9
7	☐			383.34		P	12.2
8	☐			957.82		P	11.0

156 Dy [He] No available calibration points

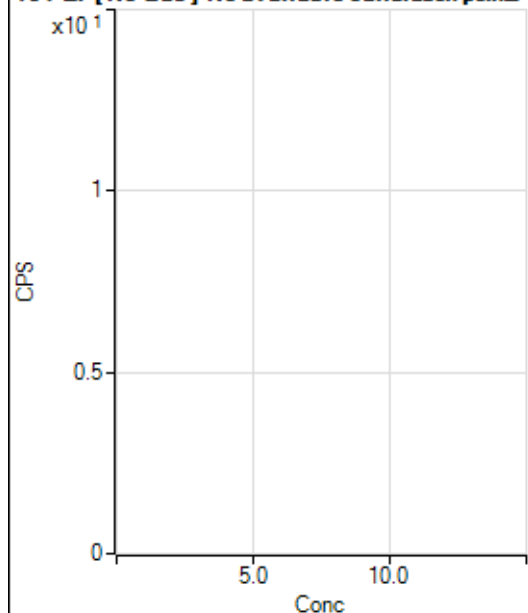
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			6.67		P	50.0
2	☐			3.33		P	173.
3	☐			17.78		P	60.3
4	☐			61.11		P	16.7
5	☐			98.89		P	11.8
6	☐			203.34		P	5.9
7	☐			374.45		P	7.6
8	☐			638.91		P	5.6

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

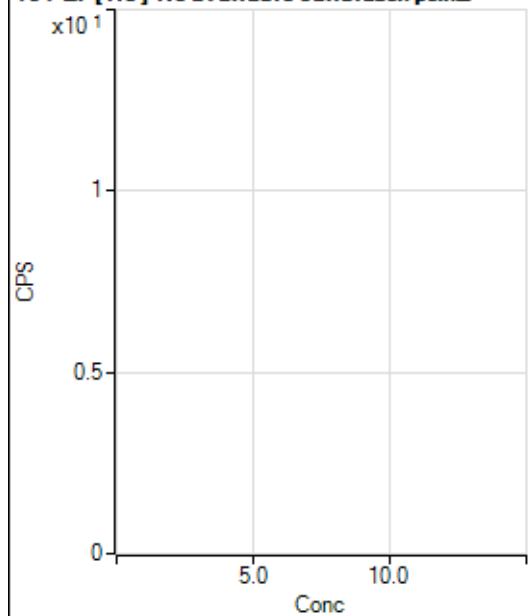
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			56.66		P	10.2
2	☐			45.56		P	21.1
3	☐			52.22		P	22.4
4	☐			71.11		P	25.8
5	☐			117.78		P	11.4
6	☐			207.78		P	5.6
7	☐			268.89		P	2.6
8	☐			973.38		P	7.4

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			222.22		P	14.6
2	☐			206.67		P	11.3
3	☐			211.12		P	14.3
4	☐			236.67		P	13.9
5	☐			241.12		P	11.8
6	☐			317.78		P	15.7
7	☐			391.12		P	11.1
8	☐			883.37		P	2.9

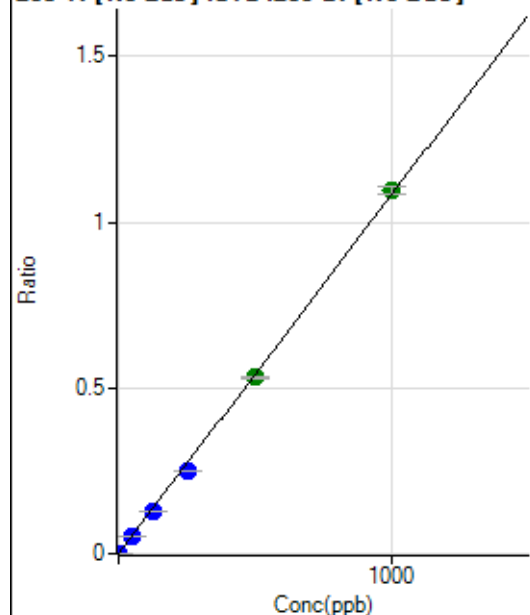
164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			56.67		P	41.2
2	☐			46.67		P	31.1
3	☐			55.56		P	22.7
4	☐			62.22		P	17.2
5	☐			74.44		P	15.7
6	☐			104.44		P	18.1
7	☐			113.34		P	22.2
8	☐			98.89		P	11.8

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			33.33		P	10.0
2	☐			44.44		P	11.5
3	☐			43.33		P	42.8
4	☐			40.00		P	30.0
5	☐			46.67		P	18.9
6	☐			46.66		P	32.7
7	☐			74.45		P	18.1
8	☐			53.33		P	33.1

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	86.67	0.0000	P	10.3
2	☐	1.000	0.862	4241.81	0.0010	P	2.9
3	☐	50.000	45.925	222438.54	0.0497	P	1.4
4	☐	125.000	116.389	553481.28	0.1260	P	0.6
5	☐	250.000	229.268	1095924.60	0.2482	P	0.7
6	☐	500.000	491.557	2365502.88	0.5321	A	0.9
7	☐	1000.000	1010.685	4626585.94	1.0940	A	2.1
8	☐			1298.97	0.0004	P	20.0

$$y = 0.0011 * x + 1.9469E-005$$

$$R = 0.9997$$

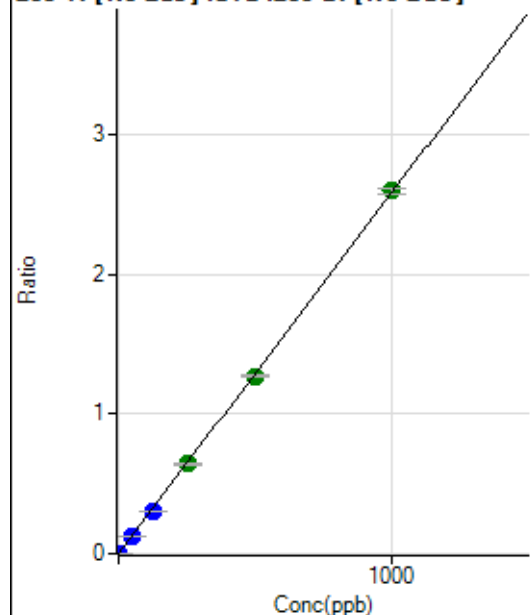
$$DL = 0.00554$$

$$BEC = 0.01799$$

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	170.01	0.0000	P	18.2
2	☐	1.000	0.837	9810.28	0.0022	P	0.8
3	☐	50.000	45.963	531816.36	0.1189	P	2.0
4	☐	125.000	116.760	1326574.21	0.3020	P	0.2
5	☐	250.000	248.523	2838655.69	0.6427	A	1.4
6	☐	500.000	492.022	5656969.85	1.2725	A	1.7
7	☐	1000.000	1005.591	10998832.20	2.6006	A	1.3
8	☐			2901.46	0.0008	P	25.0

$$y = 0.0026 * x + 3.8202E-005$$

$$R = 0.9999$$

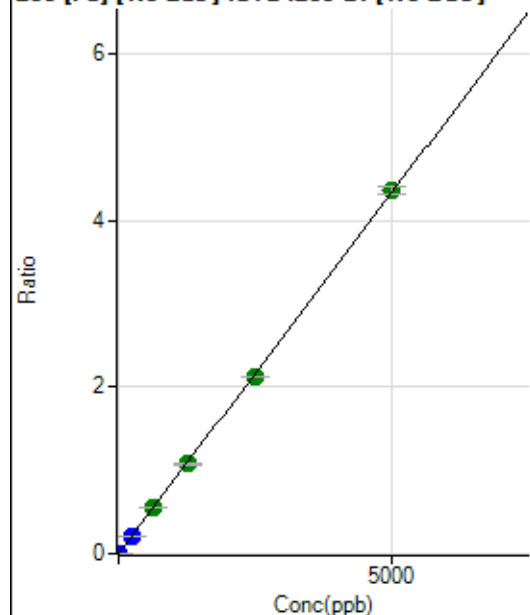
$$DL = 0.008085$$

$$BEC = 0.01477$$

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	211.11	0.0000	P	1.2
2	☐	1.000	0.862	3534.94	0.0008	P	0.5
3	☐	250.000	231.908	898399.86	0.2008	P	1.5
4	☐	625.000	631.889	2403515.31	0.5472	A	0.4
5	☐	1250.000	1245.487	4762517.85	1.0785	A	1.2
6	☐	2500.000	2449.710	9430352.85	2.1212	A	0.5
7	☐	5000.000	5026.317	18405938.33	4.3522	A	2.2
8	☐			6480.52	0.0019	P	17.4

$$y = 8.6587E-004 * x + 4.7423E-005$$

$$R = 0.9999$$

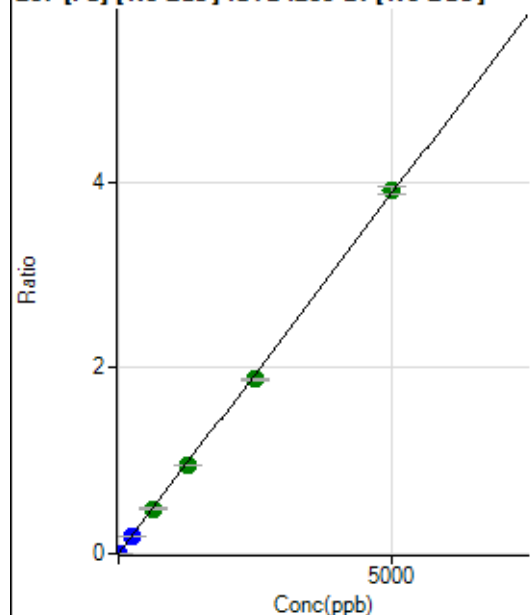
$$DL = 0.001907$$

$$BEC = 0.05477$$

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	183.34	0.0000	P	13.4
2	☐	1.000	0.858	3142.62	0.0007	P	1.0
3	☐	250.000	230.188	797384.25	0.1783	P	1.3
4	☐	625.000	625.285	2126603.96	0.4842	A	1.2
5	☐	1250.000	1228.504	4200797.13	0.9512	A	0.6
6	☐	2500.000	2427.906	8357162.65	1.8798	A	1.2
7	☐	5000.000	5042.376	16510664.89	3.9040	A	2.0
8	☐			5685.72	0.0016	P	16.9

$$y = 7.7423E-004 * x + 4.1190E-005$$

$$R = 0.9998$$

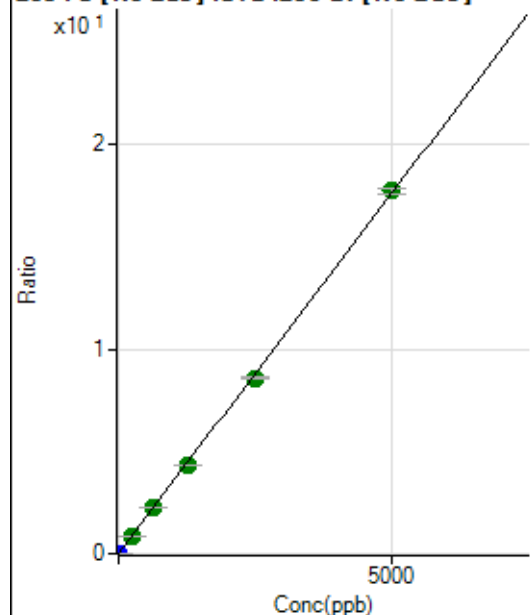
$$DL = 0.02133$$

$$BEC = 0.0532$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	872.24	0.0002	P	4.6
2	☐	1.000	0.844	14122.99	0.0032	P	1.4
3	☐	250.000	238.548	3759119.55	0.8404	A	1.1
4	☐	625.000	627.328	9706246.28	2.2096	A	0.0
5	☐	1250.000	1229.757	19128194.68	4.3314	A	0.5
6	☐	2500.000	2439.331	38195399.78	8.5914	A	1.0
7	☐	5000.000	5035.677	75007161.24	17.7357	A	1.9
8	☐			25949.00	0.0075	P	16.4

$$y = 0.0035 * x + 1.9593E-004$$

$$R = 0.9999$$

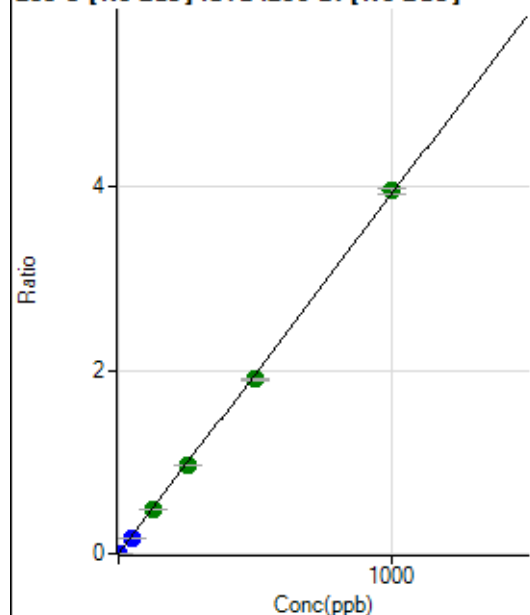
$$DL = 0.007644$$

$$BEC = 0.05563$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	8.89	0.0000	P	42.7
2	☐	1.000	0.794	13871.76	0.0031	P	0.8
3	☐	50.000	43.433	761577.22	0.1702	P	1.1
4	☐	125.000	121.423	2090579.71	0.4759	A	1.1
5	☐	250.000	245.968	4257323.41	0.9641	A	1.1
6	☐	500.000	485.589	8462002.02	1.9034	A	1.2
7	☐	1000.000	1008.989	16726308.78	3.9550	A	1.8
8	☐			3875.07	0.0011	P	25.7

$$y = 0.0039 * x + 1.9942E-006$$

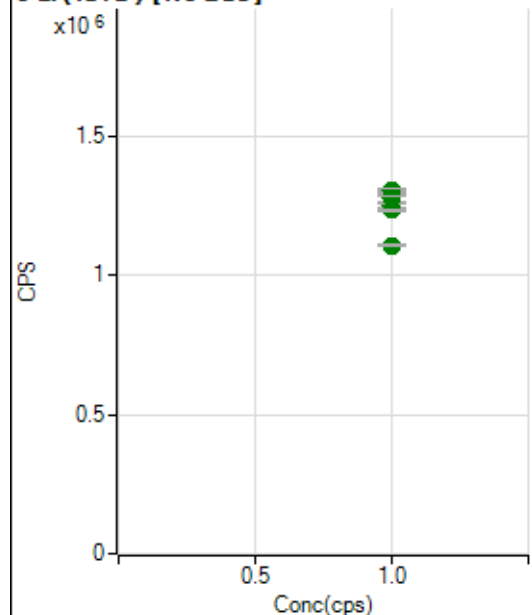
$$R = 0.9998$$

$$DL = 0.0006519$$

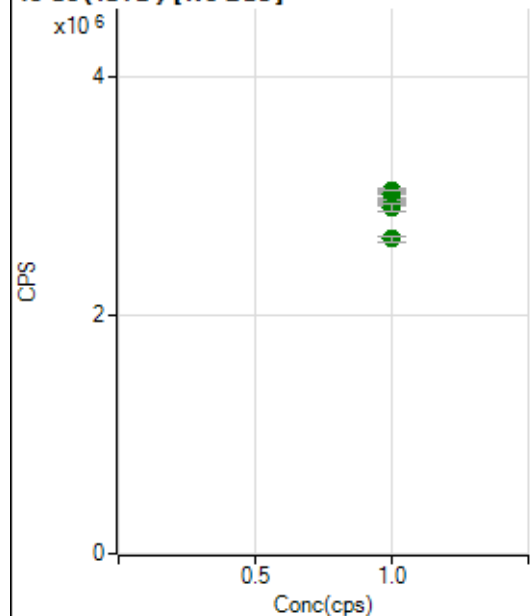
$$BEC = 0.0005088$$

Weight: <None>

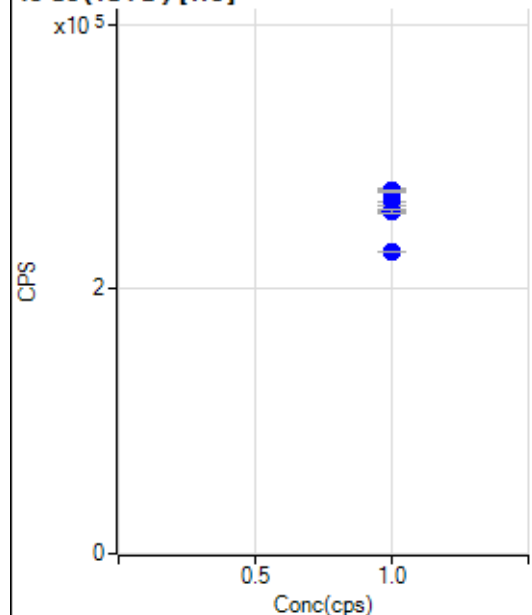
Min Conc: 0

6 Li (ISTD) [No Gas]

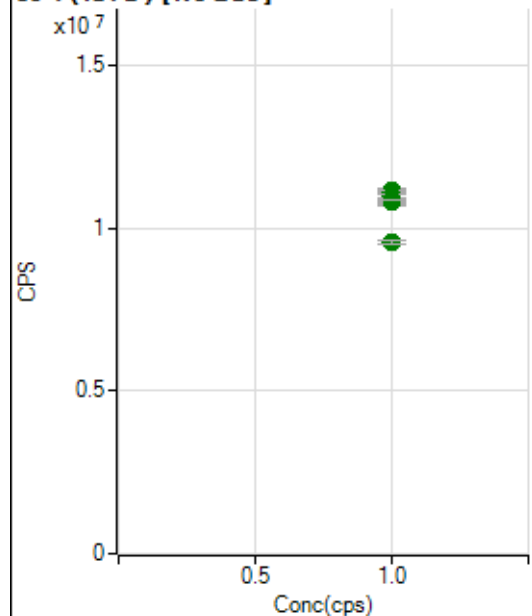
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1294872.50		A	1.4
2	☐	1.000		1289406.94		A	1.0
3	☐	1.000		1302688.96		A	1.9
4	☐	1.000		1274009.73		A	1.4
5	☐	1.000		1248439.64		A	1.1
6	☐	1.000		1246794.97		A	1.6
7	☐	1.000		1233171.96		A	0.5
8	☐	1.000		1106547.10		A	0.7

45 Sc (ISTD) [No Gas]

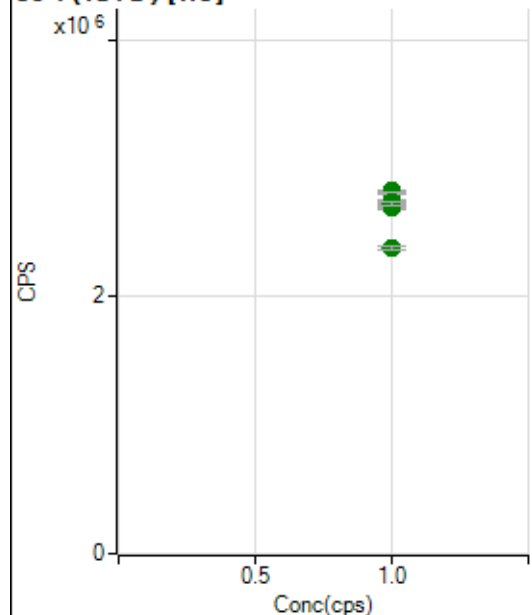
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3041556.41		A	0.3
2	☐	1.000		3048946.52		A	1.9
3	☐	1.000		3016564.85		A	2.0
4	☐	1.000		2976751.03		A	1.2
5	☐	1.000		2925179.57		A	0.1
6	☐	1.000		2969860.82		A	0.2
7	☐	1.000		2912693.12		A	2.4
8	☐	1.000		2646146.78		A	2.1

45 Sc (ISTD) [He]

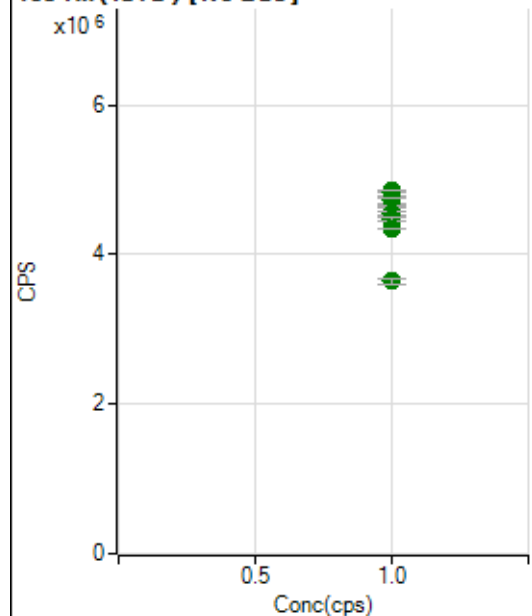
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		273387.12		P	0.3
2	☐	1.000		273763.59		P	1.1
3	☐	1.000		273937.62		P	0.3
4	☐	1.000		266065.49		P	0.3
5	☐	1.000		262394.99		P	0.2
6	☐	1.000		259052.39		P	0.7
7	☐	1.000		258401.51		P	1.4
8	☐	1.000		228020.89		P	0.3

89 Y (ISTD) [No Gas]

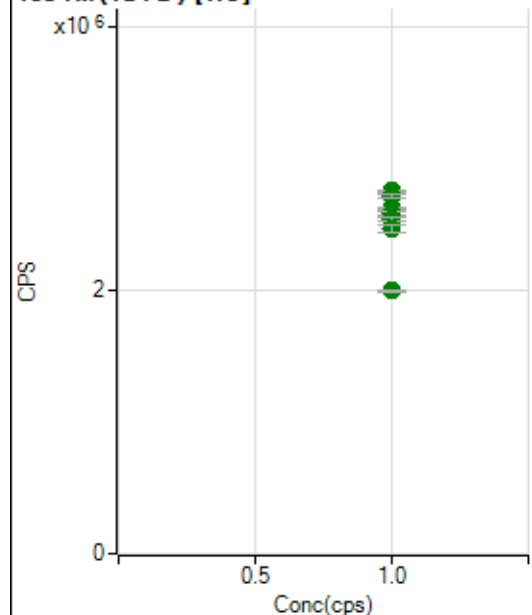
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		11136629.70		A	1.0
2	☐	1.000		11112904.83		A	1.1
3	☐	1.000		10950591.22		A	1.3
4	☐	1.000		10791972.83		A	1.5
5	☐	1.000		10777284.70		A	0.7
6	☐	1.000		10988504.28		A	0.8
7	☐	1.000		10848540.81		A	0.1
8	☐	1.000		9545853.40		A	1.0

89 Y (ISTD) [He]

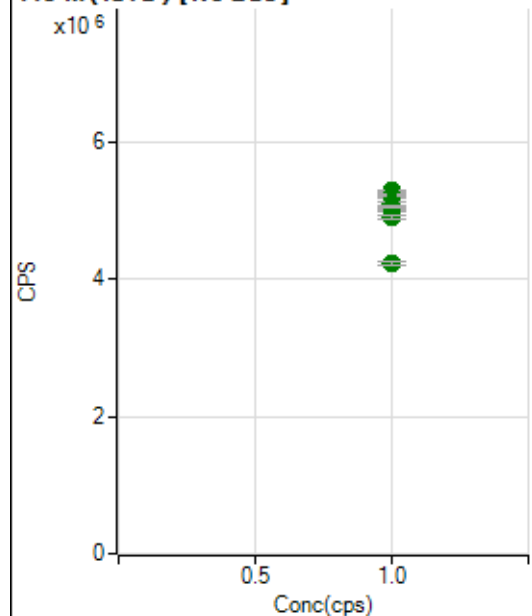
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2811633.05		A	0.8
2	☐	1.000		2822033.74		A	0.8
3	☐	1.000		2806769.64		A	0.5
4	☐	1.000		2739594.56		A	1.1
5	☐	1.000		2698040.72		A	1.4
6	☐	1.000		2707235.05		A	0.7
7	☐	1.000		2717304.30		A	1.3
8	☐	1.000		2382423.14		A	1.2

103 Rh (ISTD) [No Gas]

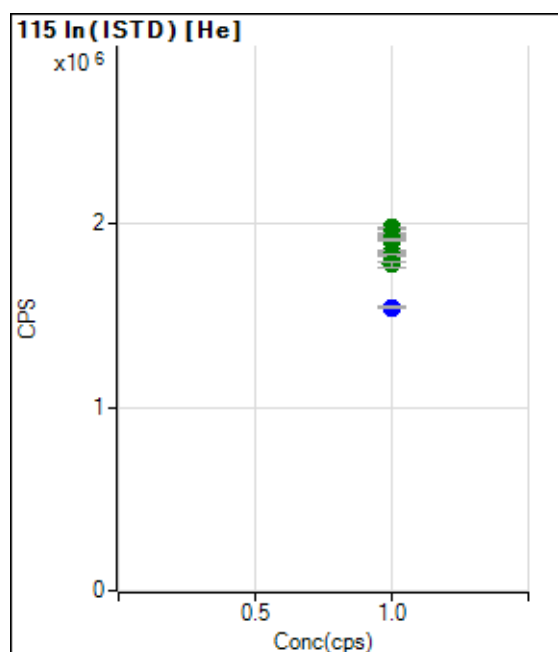
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4849613.36		A	0.6
2	☐	1.000		4824506.53		A	1.3
3	☐	1.000		4719417.81		A	1.5
4	☐	1.000		4638079.16		A	0.8
5	☐	1.000		4556594.31		A	1.1
6	☐	1.000		4480946.18		A	1.2
7	☐	1.000		4345943.16		A	0.2
8	☐	1.000		3640371.06		A	1.6

103 Rh (ISTD) [He]

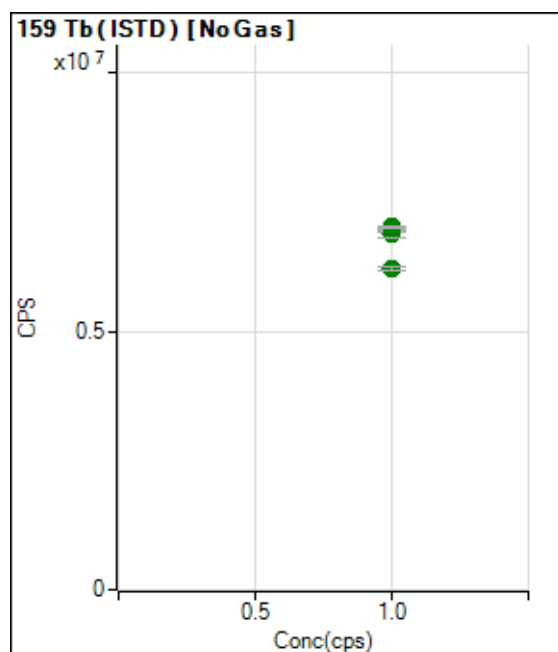
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2758641.31		A	0.3
2	☐	1.000		2757980.34		A	0.6
3	☐	1.000		2720299.58		A	0.7
4	☐	1.000		2624866.51		A	0.7
5	☐	1.000		2586583.26		A	0.7
6	☐	1.000		2542738.31		A	0.7
7	☐	1.000		2469002.55		A	2.1
8	☐	1.000		2000334.50		A	0.6

115 In (ISTD) [No Gas]

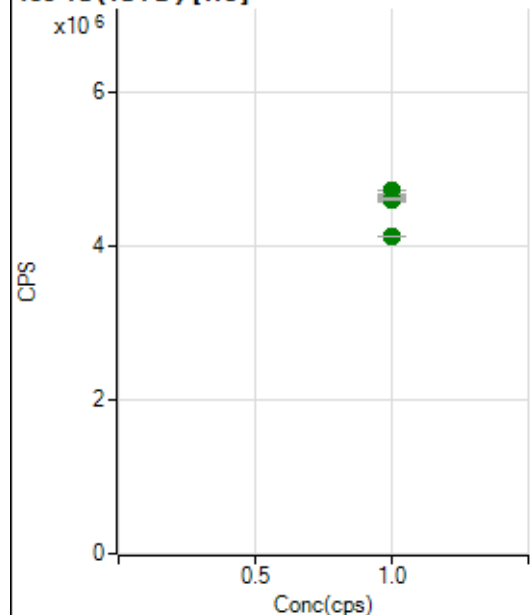
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5278797.46		A	0.8
2	☐	1.000		5204085.41		A	1.5
3	☐	1.000		5132072.21		A	2.5
4	☐	1.000		5082864.18		A	1.6
5	☐	1.000		4996833.91		A	0.5
6	☐	1.000		5045312.77		A	0.8
7	☐	1.000		4898635.57		A	0.9
8	☐	1.000		4226654.74		A	1.1



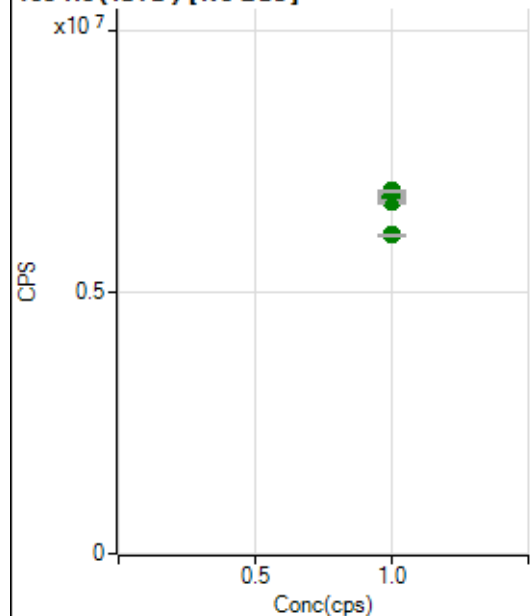
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1980554.70		A	0.3
2	☐	1.000		1948121.22		A	0.2
3	☐	1.000		1924252.64		A	0.7
4	☐	1.000		1912728.71		A	0.5
5	☐	1.000		1851774.87		A	0.8
6	☐	1.000		1831209.85		A	0.6
7	☐	1.000		1782135.24		A	2.0
8	☐	1.000		1547369.16		P	0.8



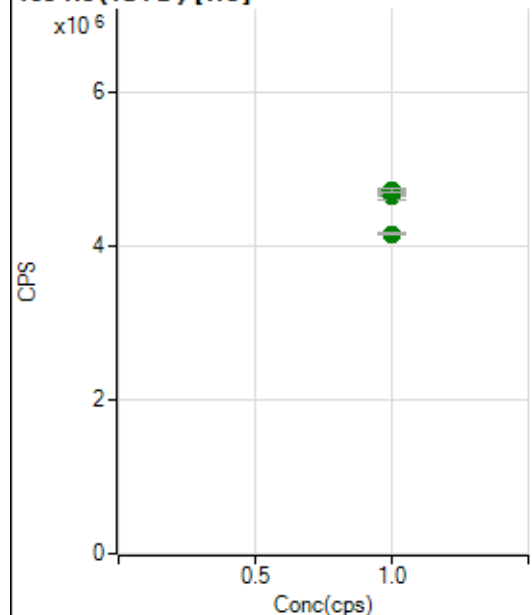
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6976744.48		A	0.5
2	☐	1.000		6956909.76		A	1.2
3	☐	1.000		6866141.70		A	1.8
4	☐	1.000		6871098.86		A	1.9
5	☐	1.000		6984637.12		A	1.2
6	☐	1.000		7018848.79		A	0.5
7	☐	1.000		7008659.06		A	0.3
8	☐	1.000		6208226.85		A	1.6

159 Tb (ISTD) [He]

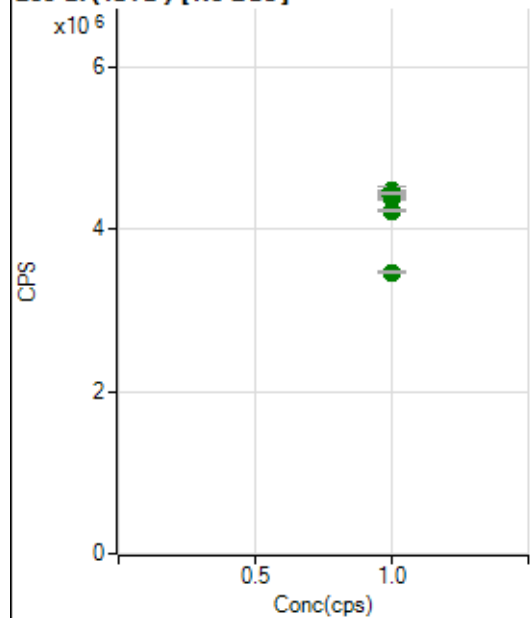
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4725106.80		A	0.2
2	☐	1.000		4675629.37		A	0.5
3	☐	1.000		4687365.00		A	1.6
4	☐	1.000		4647682.99		A	0.8
5	☐	1.000		4674333.82		A	0.8
6	☐	1.000		4640510.14		A	2.0
7	☐	1.000		4617614.76		A	0.6
8	☐	1.000		4133787.79		A	0.3

165 Ho (ISTD) [No Gas]

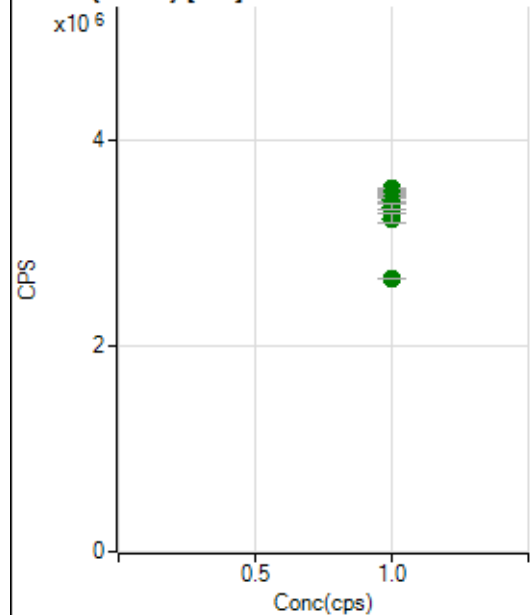
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6772575.52		A	1.1
2	☐	1.000		6741401.01		A	1.1
3	☐	1.000		6760413.23		A	1.7
4	☐	1.000		6784451.63		A	1.2
5	☐	1.000		6823511.84		A	1.5
6	☐	1.000		6928695.17		A	0.9
7	☐	1.000		6937540.18		A	0.3
8	☐	1.000		6092598.18		A	0.7

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4661564.27		A	0.6
2	☐	1.000		4676026.73		A	1.2
3	☐	1.000		4704684.79		A	0.8
4	☐	1.000		4669589.83		A	0.3
5	☐	1.000		4638237.53		A	1.5
6	☐	1.000		4695979.38		A	0.8
7	☐	1.000		4714546.73		A	1.2
8	☐	1.000		4151546.47		A	0.7

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4451860.14		A	0.5
2	☐	1.000		4455627.16		A	1.2
3	☐	1.000		4474122.08		A	2.6
4	☐	1.000		4392705.56		A	1.6
5	☐	1.000		4416237.02		A	1.7
6	☐	1.000		4445845.52		A	0.3
7	☐	1.000		4229615.77		A	0.8
8	☐	1.000		3472433.59		A	0.8

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3506371.02		A	0.8
2	☐	1.000		3527869.78		A	0.5
3	☐	1.000		3469186.89		A	0.4
4	☐	1.000		3424982.24		A	1.1
5	☐	1.000		3392307.38		A	0.1
6	☐	1.000		3356129.19		A	1.5
7	☐	1.000		3239158.80		A	2.9
8	☐	1.000		2655117.51		A	0.5

US EPA Tune Check Report

Operator Name Jaswal

Acq/Data Batch D:\Agilent\ICPMH\1\DATA\IP7051723 MS.b

Acq. Date-Time 2023-05-17 10:44:55

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		5242	52422.45			0.386	5.000
24		59291	592907.64			0.638	5.000
25		8083	80825.82			0.345	5.000
26		9603	96032.33			0.555	5.000
59		44247	442466.60			0.577	5.000
113		5878	58775.30			0.496	5.000
115		73331	733311.01			0.850	5.000
206		17953	179532.17			0.675	5.000
207		16380	163796.93			0.517	5.000
208		38444	384442.21			0.716	5.000
220		0	0.60			69.722	

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

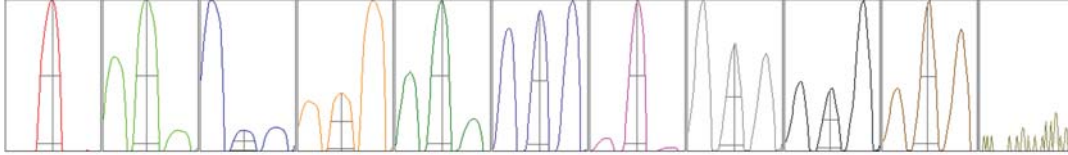
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	5245	5217	5234	5272	5243
24	59016	58908	59146	59634	59750
25	8120	8044	8073	8092	8085
26	9593	9612	9518	9643	9651
59	43945	44066	44210	44529	44484
113	5833	5866	5888	5910	5891
115	72370	73444	73151	74015	73675
206	17747	17982	17956	18038	18042
207	16275	16325	16373	16442	16483
208	38073	38249	38522	38699	38679

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	9022.85	9.00	8.90 - 9.10	
24	93438.25	23.90	23.90 - 24.10	
25	12483.21	24.90	24.90 - 25.10	
26	14515.17	25.90	25.90 - 26.10	
59	81234.41	59.00	58.90 - 59.10	
113	12149.69	113.00	112.90 - 113.10	
115	151653.61	115.00	114.90 - 115.10	
206	37307.93	206.00	205.90 - 206.10	
207	33035.68	206.95	206.90 - 207.10	
208	79641.80	207.95	207.90 - 208.10	
220	0.00	219.80	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.62	0.786	0.900	
24	0.67	0.830	0.900	
25	0.67	0.830	0.900	
26	0.68	0.834	0.900	
59	0.57	0.783	0.900	
113	0.50	0.711	0.900	
115	0.50	0.707	0.900	
206	0.48	0.775	0.900	
207	0.50	0.771	0.900	
208	0.48	0.798	0.900	
220	0.18	0.175		

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	8.7 V	Deflect	15.6 V
Extract 2	-90.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-60 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	190 V		

QP Parameters

Mass Gain	123	Axis Gain	1.0002	QP Bias	-3.0 V
Mass Offset	125	Axis Offset	-0.01		

Hardware Settings

Torch

Torch H	-1.0 mm	Torch V	1.0 mm
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EM

Discriminator	3.2 mV	Analog HV	2290 V	Pulse HV	1601 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		14955	149549.78			0.322	
89		24028	240284.22			0.506	
205		18471	184705.79			0.412	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	15015	14937	14996	14903	14924
89	24197	24017	24094	23891	23943
205	18595	18396	18463	18425	18475

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	9.1 V	Deflect	2.4 V
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US EPA Tune Check Report

Extract 2	-80.0 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	180 V		

QP Parameters

Mass Gain	123	Axis Gain	1.0002	QP Bias	-13.0 V
Mass Offset	125	Axis Offset	-0.01		

Hardware Settings

Torch

Torch H	-1.0 mm	Torch V	1.0 mm
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EM

Discriminator	3.2 mV	Analog HV	2290 V	Pulse HV	1601 V
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