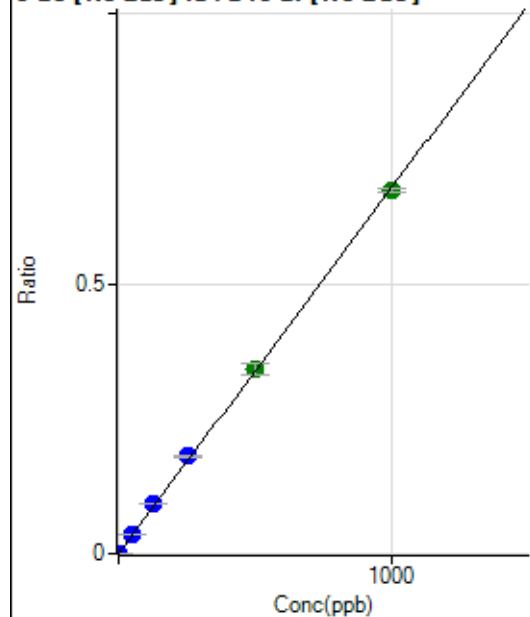


Calibration for 007CALS.d

Batch Folder: D:\Agilent\ICPMH\1\DATA\P7112322MS.b\
 Analysis File: P7112322MS.batch.bin
 DA Date-Time: 2022-11-23 12:27:08
 Calibration Title:
 Calibration Method: External Calibration
 VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.d	S00	2022-11-23 11:08:25
2	005CALS.d	S02	2022-11-23 11:11:17
3	006CALS.d	S03	2022-11-23 11:14:10
4	007CALS.d	S04	2022-11-23 11:16:54
5	008CALS.d	S05	2022-11-23 11:19:40
6	009CALS.d	S06	2022-11-23 11:22:23
7	010CALS.d	S07	2022-11-23 11:25:10
8	011CALS.d	S08	2022-11-23 11:27:54

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	82.22	0.0000	P	16.5
2	☐	1.000	1.124	2548.01	0.0008	P	3.8
3	☐	50.000	52.707	118713.97	0.0357	P	3.4
4	☐	125.000	135.943	294056.54	0.0921	P	1.7
5	☐	250.000	265.941	571462.29	0.1802	P	0.5
6	☐	500.000	504.826	1079671.02	0.3421	A	5.3
7	☐	1000.000	992.099	2099167.12	0.6723	A	1.1
8	☐			894.48	0.0003	P	26.1

$$y = 6.7762\text{E-}004 * x + 2.4936\text{E-}005$$

$$R = 0.9998$$

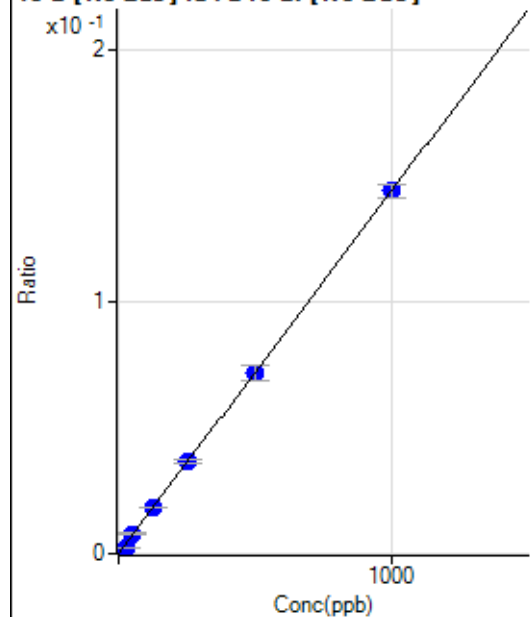
$$DL = 0.01827$$

$$BEC = 0.0368$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	202.79	0.0001	P	22.8
2	☐	25.000	14.137	6807.21	0.0021	P	4.5
3	☐	50.000	54.492	26314.52	0.0079	P	4.1
4	☐	125.000	127.431	58870.88	0.0184	P	3.1
5	☐	250.000	251.791	115336.58	0.0364	P	4.3
6	☐	500.000	498.426	226924.47	0.0719	P	8.2
7	☐	1000.000	1000.083	450508.56	0.1443	P	3.5
8	☐			17321.25	0.0061	P	17.5

$$y = 1.4420\text{E-}004 * x + 6.1496\text{E-}005$$

$$R = 0.9999$$

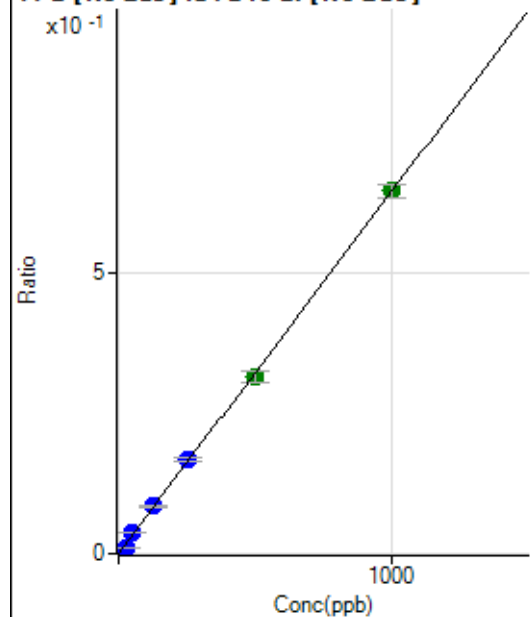
$$DL = 0.2912$$

$$BEC = 0.4265$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	897.27	0.0003	P	12.2
2	☐	25.000	15.242	32676.85	0.0101	P	7.6
3	☐	50.000	56.856	122533.03	0.0369	P	3.5
4	☐	125.000	130.717	269577.47	0.0844	P	3.9
5	☐	250.000	259.787	531138.47	0.1675	P	2.6
6	☐	500.000	489.291	994684.22	0.3152	A	6.6
7	☐	1000.000	1002.094	2015133.83	0.6453	A	3.4
8	☐			78408.57	0.0278	P	17.7

$$y = 6.4373E-004 * x + 2.7208E-004$$

$$R = 0.9998$$

$$DL = 0.1549$$

$$BEC = 0.4227$$

Weight: <None>

Min Conc: 0

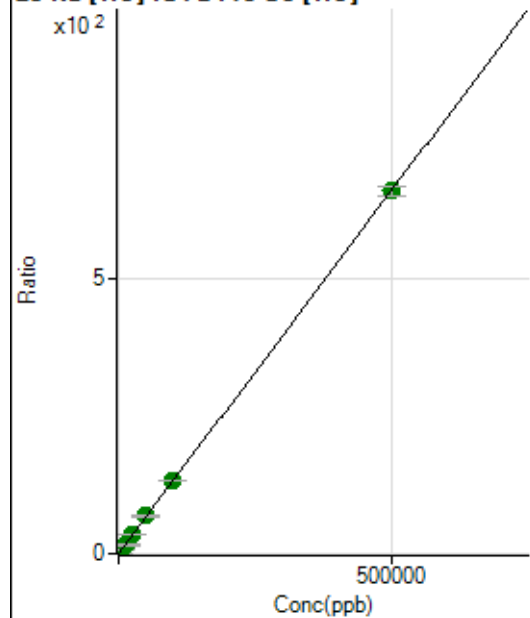
12 C [No Gas] No available calibration points



	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	25458.27	0.0448	P	2.1
2	☐	500.000	520.049	408911.95	0.7304	P	0.1
3	☐	5000.000	5207.743	3804586.78	6.9104	A	2.4
4	☐	12500.000	12223.673	9350459.58	16.1599	A	6.7
5	☐	25000.000	25988.640	18433947.40	34.3070	A	0.7
6	☐	50000.000	51815.990	36184496.64	68.3566	A	1.9
7	☐	100000.00	101187.12	71624100.67	133.4452	A	0.3
8	☐	500000.00	499536.35	359417904.3	658.6103	A	2.5

$$y = 0.0013 * x + 0.0448$$

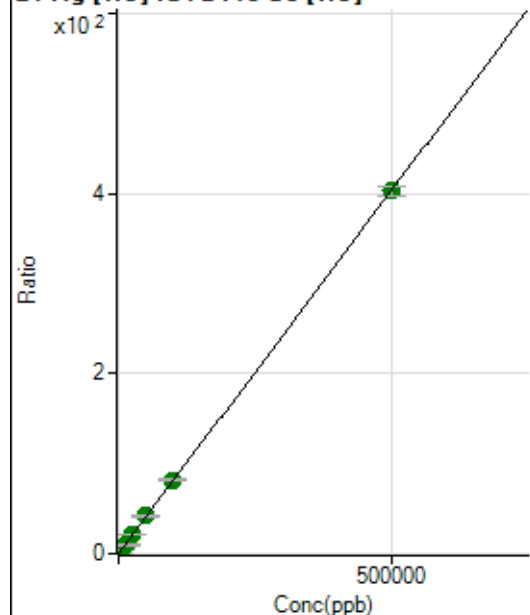
$$R = 1.0000$$

$$DL = 2.15$$

$$BEC = 33.95$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	1414.90	0.0025	P	6.1
2	☐	500.000	519.437	236312.18	0.4221	P	0.5
3	☐	5000.000	5199.524	2313409.08	4.2026	A	3.7
4	☐	12500.000	12191.160	5699707.30	9.8504	A	6.8
5	☐	25000.000	26110.848	11334410.78	21.0947	A	0.2
6	☐	50000.000	51781.599	22144691.24	41.8313	A	1.5
7	☐	100000.00	101456.78	43988235.70	81.9586	A	1.2
8	☐	500000.00	499480.64	220173484.5	403.4798	A	2.7

$$y = 8.0779\text{E-}004 * x + 0.0025$$

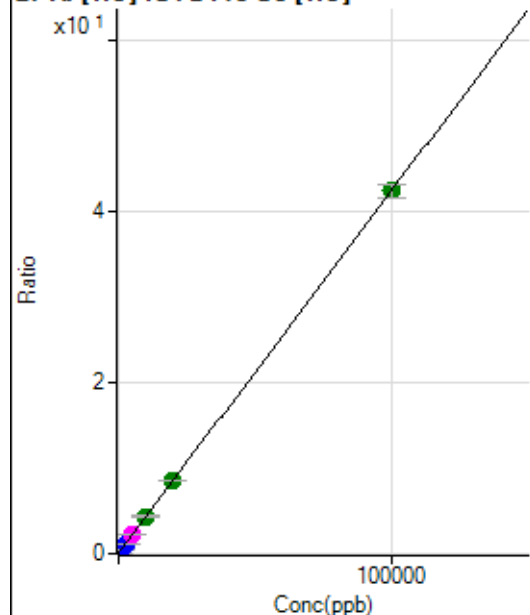
$$R = 1.0000$$

$$DL = 0.5646$$

$$BEC = 3.08$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	36439.95	0.0641	P	8.3
2	☐	20.000	-129.927	5067.58	0.0091	P	2.6
3	☐	1000.000	926.902	251335.96	0.4566	P	3.3
4	☐	2500.000	2402.076	625731.75	1.0812	P	6.3
5	☐	5000.000	5126.537	1200768.06	2.2349	M	1.5
6	☐	10000.000	10194.852	2319471.00	4.3811	A	0.8
7	☐	20000.000	20061.966	4594034.65	8.5593	A	0.4
8	☐	100000.00	99965.004	23129361.63	42.3944	A	3.7

$$y = 4.2345\text{E-}004 * x + 0.0641$$

$$R = 1.0000$$

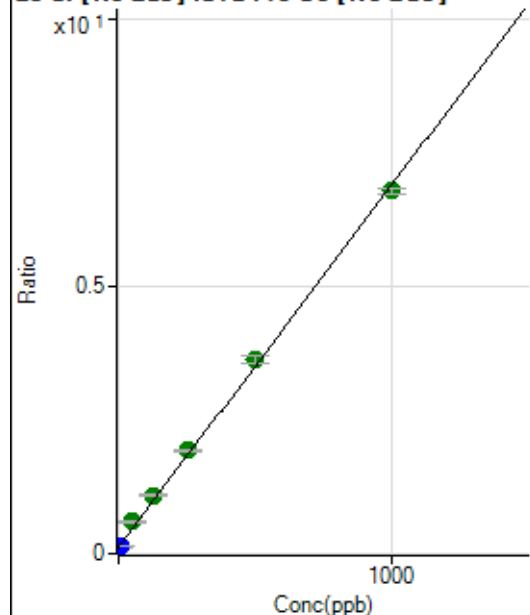
$$DL = 37.61$$

$$BEC = 151.3$$

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	858533.66	0.1234	P	1.5
2	☐	10.000	1.829	935171.13	0.1358	P	2.7
3	☐	50.000	71.220	4266252.18	0.6063	A	5.4
4	☐	125.000	143.028	7335311.01	1.0932	A	2.7
5	☐	250.000	267.676	13153034.75	1.9384	A	1.8
6	☐	500.000	516.442	24370234.57	3.6252	A	4.2
7	☐	1000.000	984.127	45944168.39	6.7965	A	1.9
8	☐			1264364.14	0.1992	A	8.9

$$y = 0.0068 * x + 0.1234$$

$$R = 0.9993$$

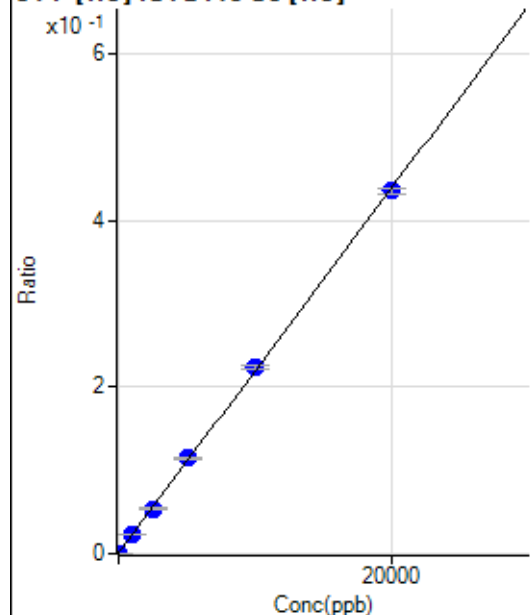
$$DL = 0.8072$$

$$BEC = 18.19$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	-11.062	313.90	0.0006	P	6.7
2	☐	0.000	11.062	580.58	0.0010	P	14.7
3	☐	1000.000	1030.759	12883.50	0.0234	P	1.0
4	☐	2500.000	2429.033	31282.42	0.0541	P	6.2
5	☐	5000.000	5205.499	61744.64	0.1149	P	1.6
6	☐	10000.000	10199.451	118795.00	0.2244	P	2.0
7	☐	20000.000	19856.232	234080.68	0.4361	P	1.4
8	☐			527.80	0.0010	P	4.4

$$y = 2.1925E-005 * x + 7.9445E-004$$

$$R = 0.9998$$

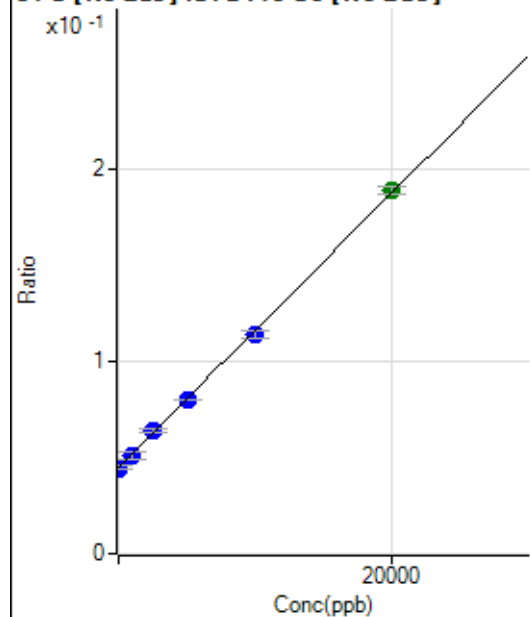
$$DL = 12.98$$

$$BEC = 36.24$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	-57.227	308772.62	0.0444	P	0.3
2	☐	0.000	57.227	311196.23	0.0452	P	3.4
3	☐	1000.000	870.898	358634.28	0.0510	P	6.4
4	☐	2500.000	2708.688	429924.79	0.0641	P	4.1
5	☐	5000.000	4927.845	542489.57	0.0799	P	0.6
6	☐	10000.000	9700.412	766508.23	0.1140	P	3.3
7	☐	20000.000	20148.202	1274800.33	0.1886	A	2.2
8	☐			271044.78	0.0426	P	6.5

$$y = 7.1377\text{E-}006 * x + 0.0448$$

$$R = 0.9997$$

$$DL = 347.6$$

$$BEC = 6273$$

Weight: <None>

Min Conc: 0

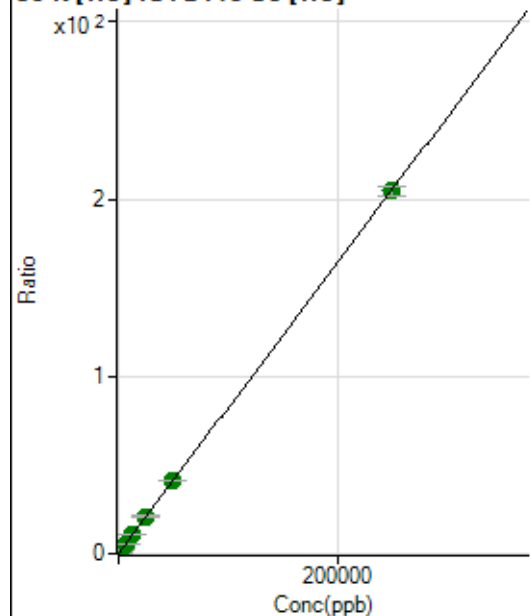
35 Cl [No Gas] No available calibration points



	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	70993.41	0.1248	P	1.0
2	☐	500.000	552.522	323136.12	0.5772	P	1.0
3	☐	2500.000	2600.102	1240672.89	2.2535	A	2.3
4	☐	6250.000	6070.145	2948050.61	5.0943	A	6.4
5	☐	12500.000	12814.616	5703820.79	10.6158	A	1.5
6	☐	25000.000	25566.393	11145668.39	21.0554	A	1.9
7	☐	50000.000	50545.629	22277552.23	41.5053	A	0.7
8	☐	250000.00	249821.89	111669992.7	204.6478	A	2.9

$$y = 8.1868E-004 * x + 0.1248$$

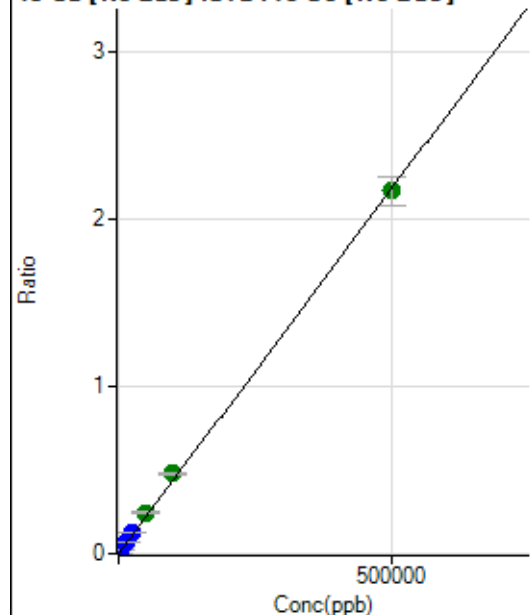
$$R = 1.0000$$

$$DL = 4.724$$

$$BEC = 152.5$$

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	241.67	0.0000	P	20.4
2	☐	500.000	527.077	16056.04	0.0023	P	2.6
3	☐	5000.000	5883.526	180551.35	0.0257	P	6.0
4	☐	12500.000	15320.511	447935.97	0.0668	P	3.7
5	☐	25000.000	29452.623	870824.88	0.1283	P	2.4
6	☐	50000.000	55818.757	1634563.54	0.2432	A	5.9
7	☐	100000.00	109614.53	3228014.05	0.4775	A	2.5
8	☐	500000.00	497193.21	13757961.76	2.1660	A	7.9

$$y = 4.3563\text{E-}006 * x + 3.4696\text{E-}005$$

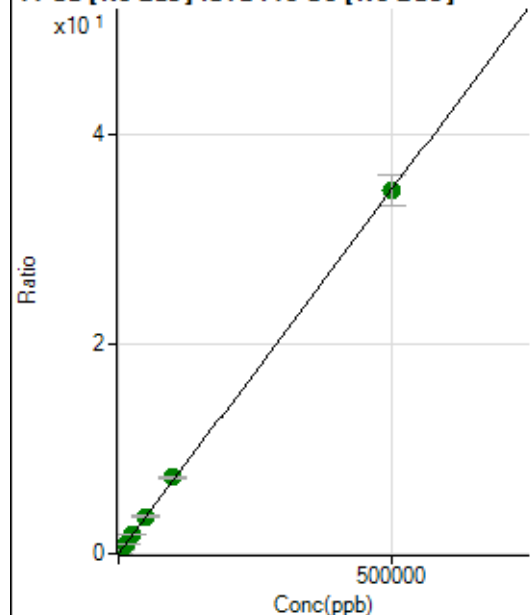
$$R = 0.9998$$

$$DL = 4.864$$

$$BEC = 7.965$$

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	11532.95	0.0017	P	1.8
2	☐	500.000	527.844	263186.68	0.0382	P	2.6
3	☐	5000.000	5215.021	2552133.72	0.3628	A	5.7
4	☐	12500.000	13571.229	6315673.41	0.9413	A	2.8
5	☐	25000.000	26468.097	12447179.88	1.8343	A	1.4
6	☐	50000.000	51502.889	23985032.48	3.5678	A	3.8
7	☐	100000.00	104650.18	48993468.11	7.2478	A	2.5
8	☐	500000.00	498817.31	219310717.4	34.5405	A	8.5

$$y = 6.9241\text{E-}005 * x + 0.0017$$

$$R = 1.0000$$

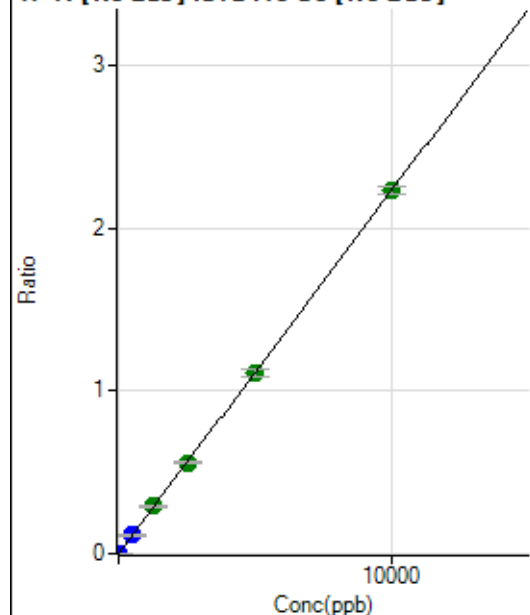
$$DL = 1.278$$

$$BEC = 23.93$$

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	130.56	0.0000	P	39.9
2	☐	5.000	4.810	7521.51	0.0011	P	1.4
3	☐	500.000	511.990	803374.54	0.1142	P	6.0
4	☐	1250.000	1301.503	1946824.93	0.2903	A	4.0
5	☐	2500.000	2510.978	3799967.23	0.5600	A	1.5
6	☐	5000.000	4990.781	7481921.87	1.1130	A	4.4
7	☐	10000.000	9994.828	15067902.59	2.2290	A	2.2
8	☐			3094.84	0.0005	P	3.4

$$y = 2.2301\text{E-}004 * x + 1.8730\text{E-}005$$

$$R = 1.0000$$

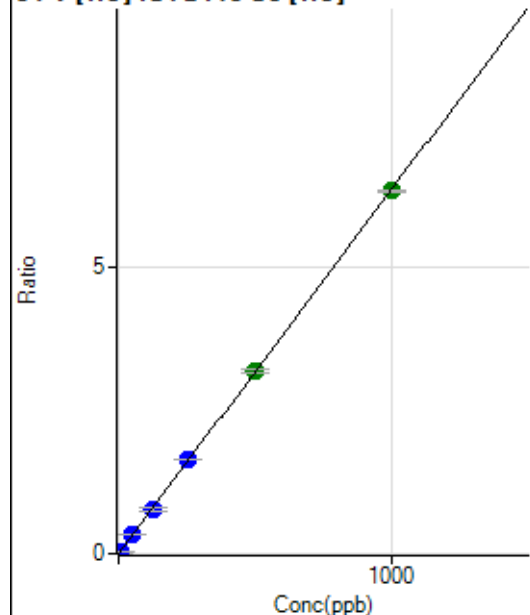
$$DL = 0.1006$$

$$BEC = 0.08399$$

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	23.33	0.0000	P	37.7
2	☐	5.000	5.102	18203.29	0.0325	P	1.3
3	☐	50.000	51.998	182203.18	0.3310	P	2.7
4	☐	125.000	121.927	449137.35	0.7760	P	6.0
5	☐	250.000	257.570	880772.08	1.6392	P	0.2
6	☐	500.000	503.875	1697483.74	3.2067	A	1.9
7	☐	1000.000	996.454	3403713.25	6.3416	A	0.3
8	☐			1078.94	0.0020	P	4.2

$$y = 0.0064 * x + 4.1014\text{E-}005$$

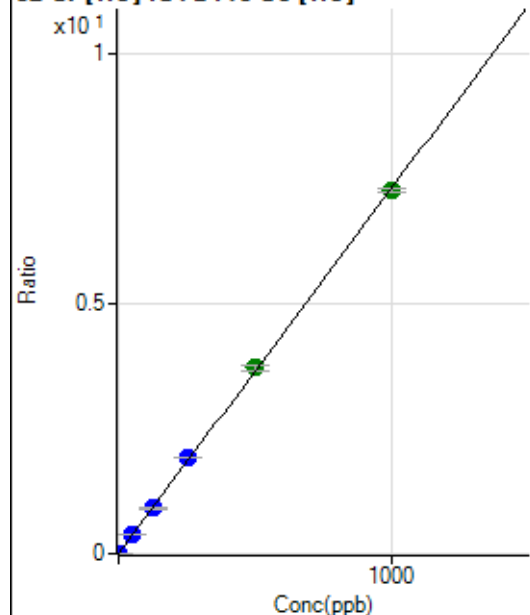
$$R = 0.9999$$

$$DL = 0.00728$$

$$BEC = 0.006445$$

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	1450.08	0.0025	P	4.7
2	☐	2.000	2.035	9742.10	0.0174	P	2.7
3	☐	50.000	53.068	214657.75	0.3899	P	2.5
4	☐	125.000	124.065	525531.05	0.9081	P	6.3
5	☐	250.000	261.630	1027431.95	1.9122	P	0.4
6	☐	500.000	507.926	1963699.21	3.7100	A	2.9
7	☐	1000.000	993.093	3891904.53	7.2512	A	0.9
8	☐			31846.96	0.0584	P	2.9

$$y = 0.0073 * x + 0.0025$$

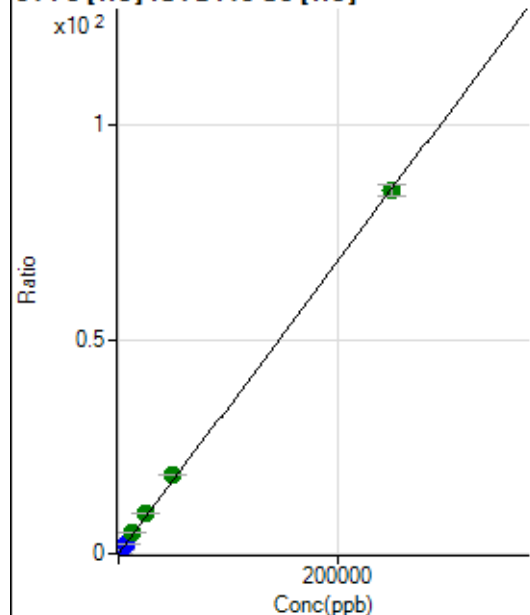
$$R = 0.9999$$

$$DL = 0.04874$$

$$BEC = 0.3493$$

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	2088.97	0.0037	P	5.3
2	☐	50.000	57.353	12975.56	0.0232	P	2.0
3	☐	2500.000	2987.218	561312.64	1.0195	P	2.0
4	☐	6250.000	6986.798	1377008.21	2.3796	P	6.5
5	☐	12500.000	14029.588	2565382.76	4.7745	A	0.7
6	☐	25000.000	27774.410	5001361.18	9.4485	A	2.3
7	☐	50000.000	53692.868	9801729.93	18.2622	A	0.7
8	☐	250000.00	248884.21	46181758.05	84.6380	A	3.1

$$y = 3.4006E-004 * x + 0.0037$$

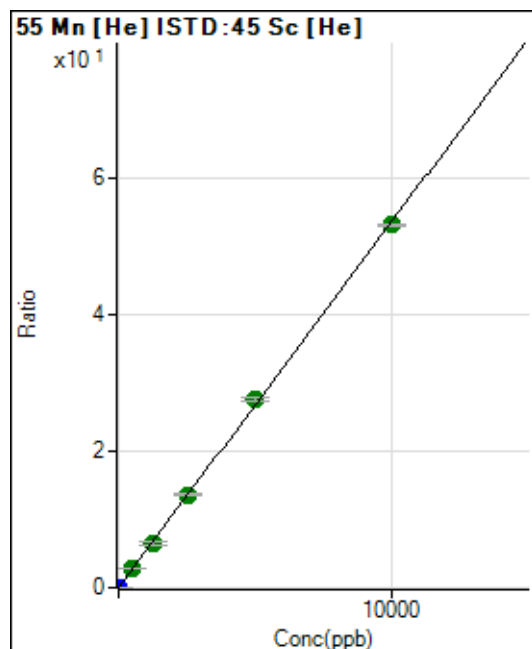
$$R = 0.9998$$

$$DL = 1.706$$

$$BEC = 10.8$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	421.12	0.0007	P	11.8
2	☐	1.000	1.005	3435.98	0.0061	P	2.7
3	☐	500.000	515.180	1523183.93	2.7666	A	2.1
4	☐	1250.000	1209.592	3758666.79	6.4946	A	6.2
5	☐	2500.000	2546.066	7344568.92	13.6697	A	1.2
6	☐	5000.000	5145.593	14623546.31	27.6257	A	1.9
7	☐	10000.000	9919.979	28584966.24	53.2577	A	0.4
8	☐			35139.88	0.0644	P	3.9

$$y = 0.0054 * x + 7.4037E-004$$

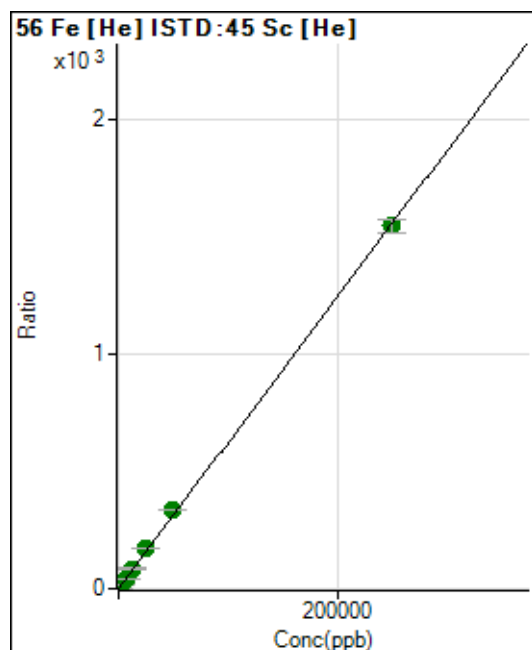
$$R = 0.9998$$

$$DL = 0.04879$$

$$BEC = 0.1379$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	13526.60	0.0238	P	1.6
2	☐	50.000	56.383	209330.66	0.3739	P	0.5
3	☐	2500.000	2802.333	9593218.96	17.4247	A	2.4
4	☐	6250.000	6555.702	23570557.70	40.7310	A	6.4
5	☐	12500.000	13837.516	46178625.57	85.9470	A	0.8
6	☐	25000.000	27532.915	90517620.54	170.9878	A	1.3
7	☐	50000.000	53675.657	178899918.8	333.3196	A	0.7
8	☐	250000.00	248934.03	843313604.0	1,545.765	A	3.9

$$y = 0.0062 * x + 0.0238$$

$$R = 0.9999$$

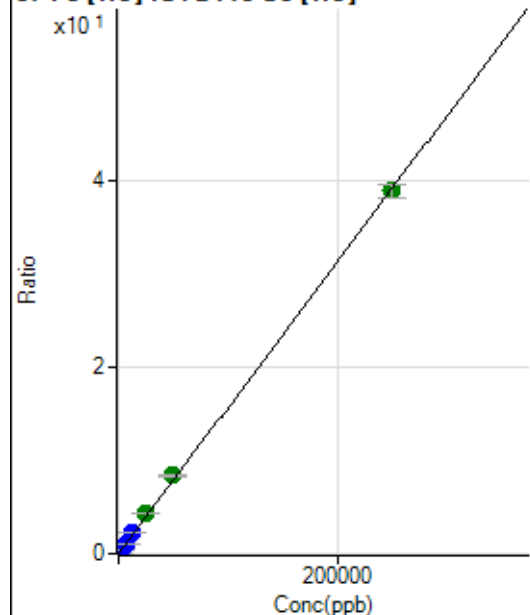
$$DL = 0.1878$$

$$BEC = 3.83$$

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	720.40	0.0013	P	18.0
2	☐	50.000	57.033	5691.91	0.0102	P	2.6
3	☐	2500.000	2895.004	249437.63	0.4530	P	1.8
4	☐	6250.000	6768.510	612026.99	1.0575	P	6.2
5	☐	12500.000	14290.764	1198920.20	2.2314	P	0.3
6	☐	25000.000	27423.158	2266079.25	4.2807	A	1.7
7	☐	50000.000	53448.726	4477342.23	8.3420	A	0.7
8	☐	250000.00	248961.48	21197040.52	38.8520	A	3.7

$$y = 1.5605E-004 * x + 0.0013$$

$$R = 0.9999$$

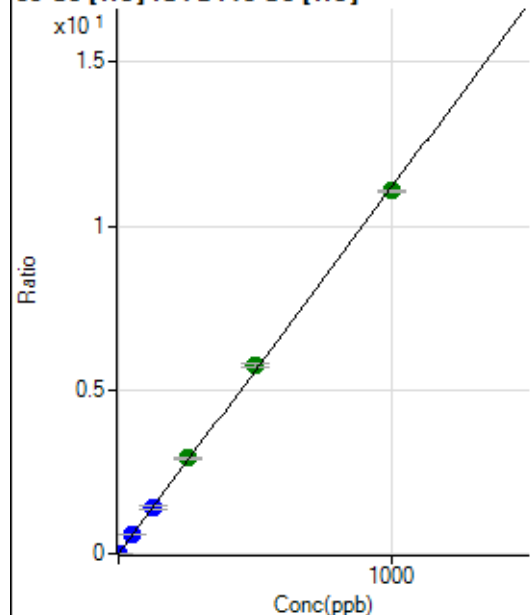
$$DL = 4.381$$

$$BEC = 8.116$$

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	72.22	0.0001	P	7.1
2	☐	1.000	1.072	6780.48	0.0121	P	2.2
3	☐	50.000	53.113	326890.67	0.5938	P	3.0
4	☐	125.000	125.105	809364.51	1.3985	P	6.2
5	☐	250.000	260.232	1562945.81	2.9088	A	0.7
6	☐	500.000	513.825	3040295.30	5.7433	A	1.7
7	☐	1000.000	990.361	5941394.84	11.0697	A	0.8
8	☐			6319.15	0.0116	P	2.8

$$y = 0.0112 * x + 1.2699E-004$$

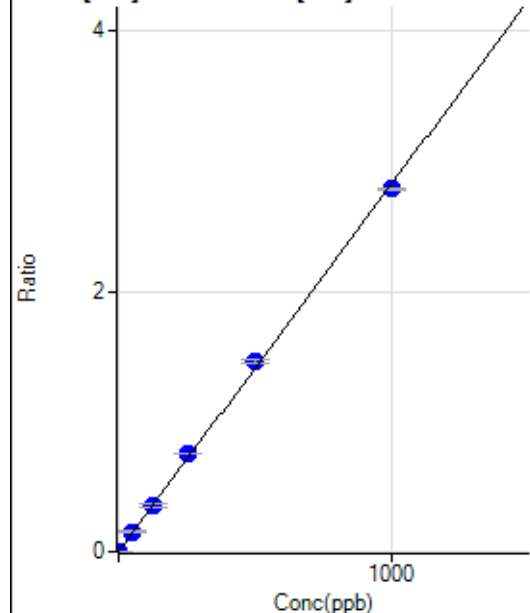
$$R = 0.9998$$

$$DL = 0.002405$$

$$BEC = 0.01136$$

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	205.56	0.0004	P	12.0
2	☐	1.000	1.040	1844.58	0.0033	P	2.8
3	☐	50.000	54.378	84658.20	0.1538	P	2.4
4	☐	125.000	126.483	206698.41	0.3572	P	6.4
5	☐	250.000	266.689	404433.81	0.7527	P	0.7
6	☐	500.000	516.731	771889.30	1.4581	P	1.5
7	☐	1000.000	987.058	1494769.25	2.7850	P	0.7
8	☐			9758.82	0.0179	P	5.1

$$y = 0.0028 * x + 3.6144E-004$$

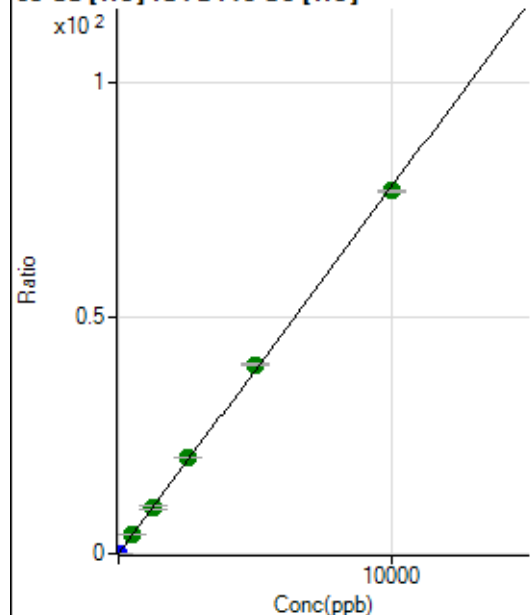
$$R = 0.9996$$

$$DL = 0.0462$$

$$BEC = 0.1281$$

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	1266.73	0.0022	P	2.4
2	☐	2.000	2.060	10225.80	0.0183	P	0.7
3	☐	500.000	537.455	2305038.18	4.1865	A	2.3
4	☐	1250.000	1247.179	5619147.00	9.7119	A	6.9
5	☐	2500.000	2629.131	10998597.76	20.4707	A	0.9
6	☐	5000.000	5156.497	21253004.68	40.1470	A	1.3
7	☐	10000.000	9887.949	41318402.16	76.9826	A	0.6
8	☐			17046.43	0.0313	P	4.8

$$y = 0.0078 * x + 0.0022$$

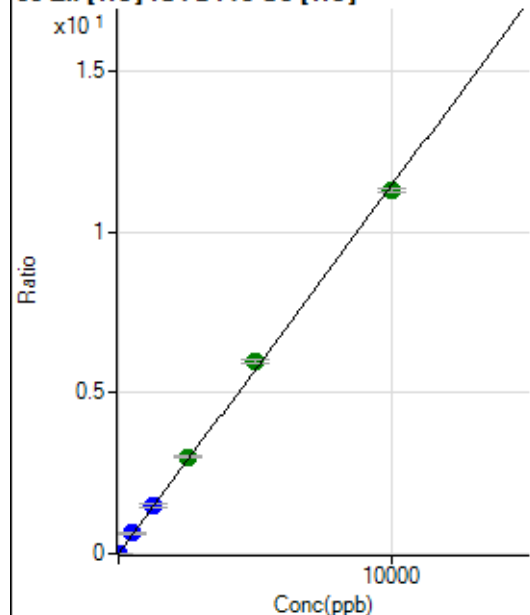
$$R = 0.9997$$

$$DL = 0.02035$$

$$BEC = 0.2861$$

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	1423.41	0.0025	P	1.3
2	☐	2.000	1.475	2345.77	0.0042	P	3.6
3	☐	500.000	547.819	346360.71	0.6291	P	2.3
4	☐	1250.000	1293.476	857872.17	1.4820	P	5.7
5	☐	2500.000	2628.612	1616794.91	3.0092	A	0.8
6	☐	5000.000	5204.038	3152220.09	5.9550	A	2.1
7	☐	10000.000	9858.002	6053244.56	11.2783	A	1.1
8	☐			12987.96	0.0238	P	3.4

$$y = 0.0011 * x + 0.0025$$

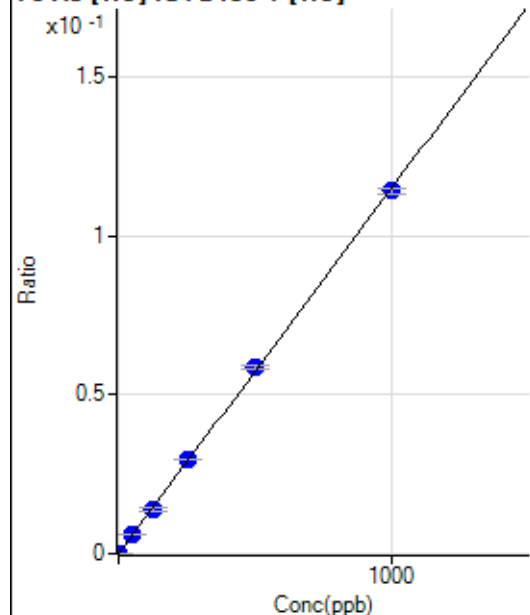
$$R = 0.9996$$

$$DL = 0.08637$$

$$BEC = 2.188$$

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	1.23	0.0000	P	86.6
2	☐	1.000	1.075	468.53	0.0001	P	5.4
3	☐	50.000	52.258	22812.52	0.0060	P	3.1
4	☐	125.000	122.109	55877.17	0.0140	P	6.1
5	☐	250.000	258.146	110265.11	0.0296	P	0.2
6	☐	500.000	509.993	216445.32	0.0586	P	2.5
7	☐	1000.000	993.215	426521.36	0.1141	P	1.3
8	☐			249.39	0.0001	P	15.3

$$y = 1.1485E-004 * x + 3.2139E-007$$

$$R = 0.9999$$

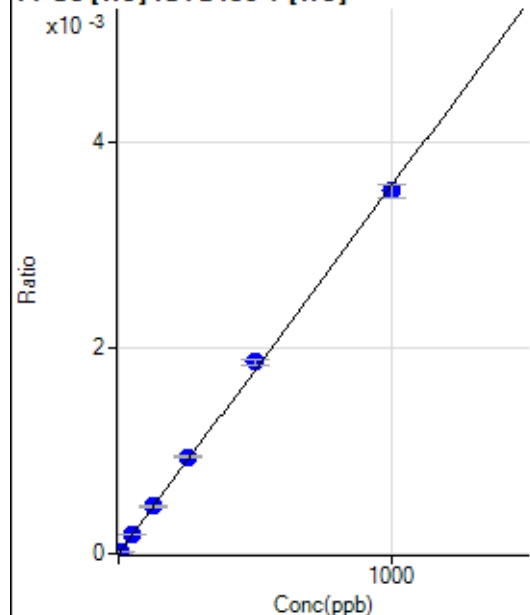
$$DL = 0.00727$$

$$BEC = 0.002798$$

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	1.11	0.0000	P	173.
2	☐	5.000	6.906	94.44	0.0000	P	23.0
3	☐	50.000	50.661	688.91	0.0002	P	3.6
4	☐	125.000	128.381	1827.91	0.0005	P	7.3
5	☐	250.000	261.707	3478.22	0.0009	P	1.9
6	☐	500.000	520.239	6868.32	0.0019	P	3.4
7	☐	1000.000	986.489	13177.06	0.0035	P	3.4
8	☐			8.89	0.0000	P	109.

$$y = 3.5727\text{E-}006 * x + 2.8794\text{E-}007$$

$$R = 0.9996$$

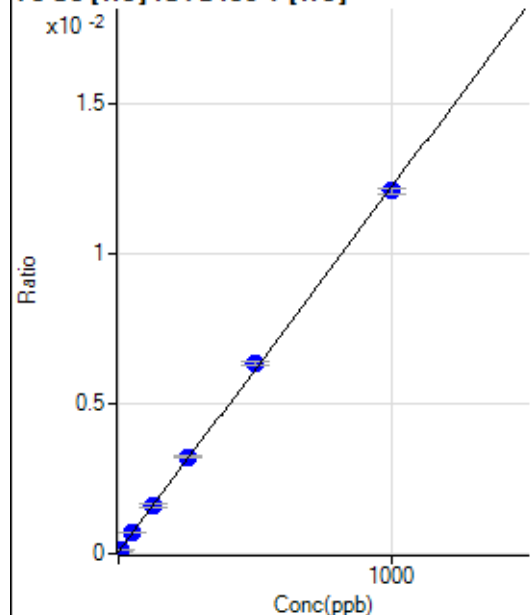
$$DL = 0.4188$$

$$BEC = 0.08059$$

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	255.56	0.0001	P	2.5
2	☐	5.000	5.403	500.63	0.0001	P	1.2
3	☐	50.000	52.490	2681.12	0.0007	P	6.2
4	☐	125.000	124.112	6282.84	0.0016	P	8.3
5	☐	250.000	259.868	12019.10	0.0032	P	1.0
6	☐	500.000	515.987	23472.26	0.0064	P	1.6
7	☐	1000.000	989.524	45311.99	0.0121	P	1.7
8	☐			257.41	0.0001	P	5.7

$$y = 1.2180\text{E-}005 * x + 6.6492\text{E-}005$$

$$R = 0.9997$$

$$DL = 0.4021$$

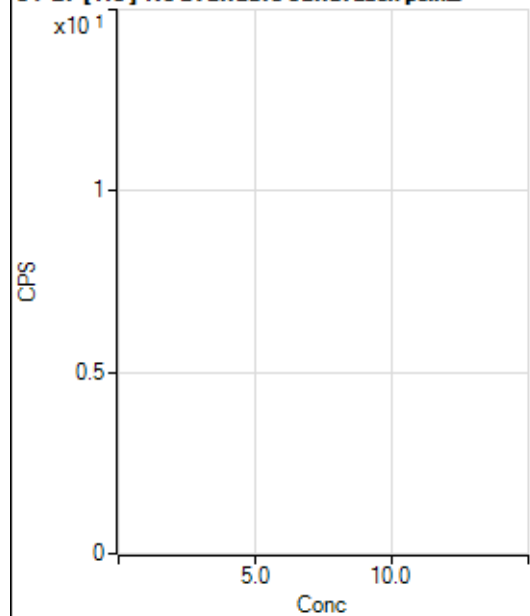
$$BEC = 5.459$$

Weight: <None>

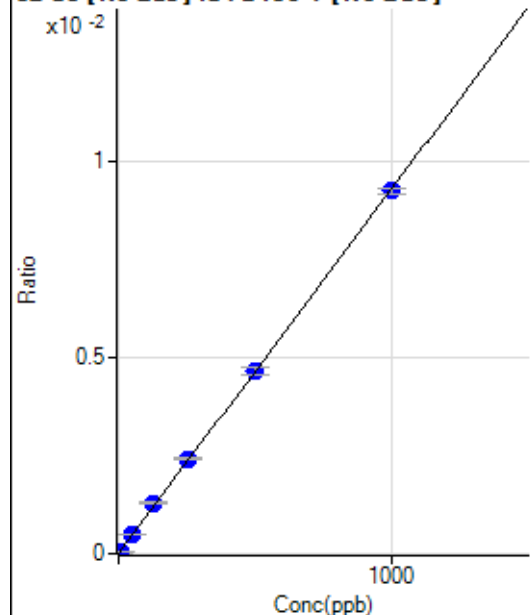
Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			23510.80		P	0.3
2	☐			23371.81		P	1.4
3	☐			23452.48		P	1.9
4	☐			22896.03		P	3.0
5	☐			22556.74		P	3.2
6	☐			23082.41		P	0.8
7	☐			22926.69		P	0.6
8	☐			24092.49		P	1.4

81 Br [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			46.71		P	24.7
2	☐			73.41		P	64.4
3	☐			53.39		P	39.0
4	☐			70.07		P	57.1
5	☐			56.72		P	10.2
6	☐			63.40		P	32.9
7	☐			46.71		P	53.9
8	☐			76.74		P	19.9

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	102.56	0.0000	P	47.0
2	☐	5.000	5.645	947.62	0.0001	P	4.5
3	☐	50.000	52.911	8122.78	0.0005	P	5.1
4	☐	125.000	138.163	20043.37	0.0013	P	3.5
5	☐	250.000	259.691	39224.49	0.0024	P	1.3
6	☐	500.000	500.951	75311.16	0.0047	P	4.1
7	☐	1000.000	995.308	149909.93	0.0093	P	1.9
8	☐			289.67	0.0000	P	12.0

$$y = 9.2954E-006 * x + 6.3022E-006$$

$$R = 0.9999$$

$$DL = 0.9565$$

$$BEC = 0.678$$

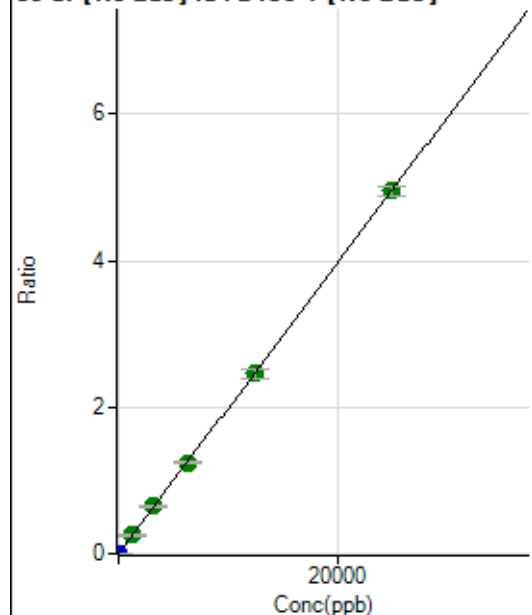
Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			226.67		P	24.1
2	☐			202.23		P	21.2
3	☐			224.45		P	13.8
4	☐			268.89		P	3.1
5	☐			213.33		P	14.3
6	☐			238.89		P	1.6
7	☐			272.23		P	9.0
8	☐			258.90		P	5.4

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	430.58	0.0000	P	18.3
2	☐	1.000	1.062	3817.27	0.0002	P	3.4
3	☐	1250.000	1260.969	4072804.00	0.2497	A	4.9
4	☐	3125.000	3275.801	10073936.33	0.6487	A	3.8
5	☐	6250.000	6281.115	20160075.80	1.2439	A	1.1
6	☐	12500.000	12419.284	39720941.16	2.4595	A	5.2
7	☐	25000.000	25013.181	80206741.38	4.9535	A	2.4
8	☐			21388.25	0.0014	P	8.9

$$y = 1.9803\text{E-}004 * x + 2.6416\text{E-}005$$

$$R = 1.0000$$

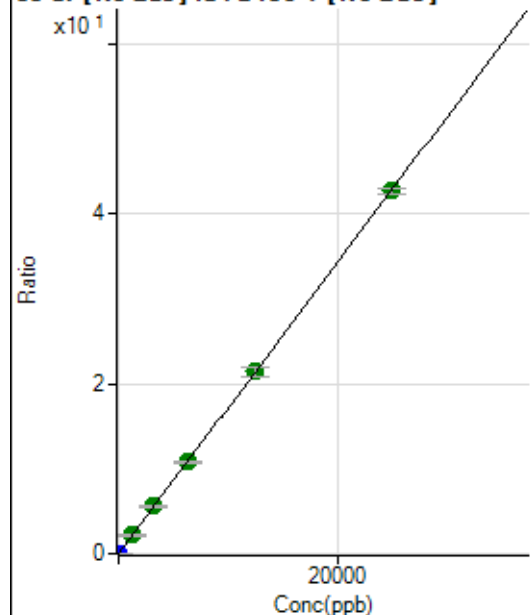
$$DL = 0.07318$$

$$BEC = 0.1334$$

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	236.12	0.0000	P	13.6
2	☐	1.000	1.045	29079.40	0.0018	P	3.2
3	☐	1250.000	1261.024	35195235.86	2.1595	A	6.5
4	☐	3125.000	3291.884	87540255.43	5.6374	A	3.8
5	☐	6250.000	6309.125	175107549.7	10.8044	A	1.6
6	☐	12500.000	12508.373	345959168.8	21.4207	A	4.6
7	☐	25000.000	24959.621	692132337.6	42.7435	A	1.7
8	☐			183861.71	0.0123	P	10.1

$$y = 0.0017 * x + 1.4496\text{E-}005$$

$$R = 1.0000$$

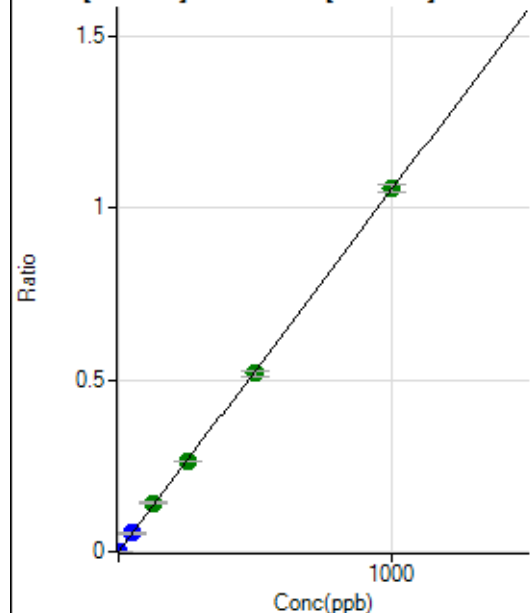
$$DL = 0.003458$$

$$BEC = 0.008465$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	641.70	0.0000	P	9.3
2	☐	1.000	0.978	17216.02	0.0011	P	3.4
3	☐	50.000	51.356	880859.62	0.0540	P	5.8
4	☐	125.000	133.135	2174160.40	0.1400	A	4.2
5	☐	250.000	249.768	4256510.73	0.2626	A	1.4
6	☐	500.000	491.936	8355105.31	0.5172	A	4.2
7	☐	1000.000	1003.005	17075361.49	1.0546	A	2.1
8	☐			7638.27	0.0005	P	9.4

$$y = 0.0011 * x + 3.9393E-005$$

$$R = 0.9999$$

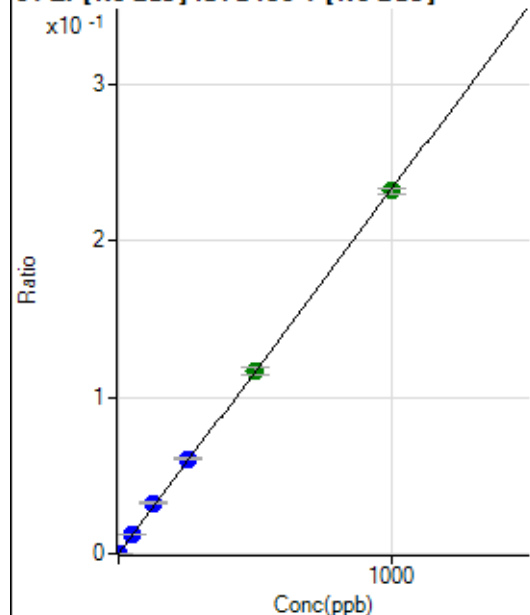
$$DL = 0.01049$$

$$BEC = 0.03747$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	125.00	0.0000	P	6.8
2	☐	1.000	1.007	3908.95	0.0002	P	7.2
3	☐	50.000	52.137	197964.18	0.0121	P	5.8
4	☐	125.000	137.861	498257.93	0.0321	P	4.8
5	☐	250.000	259.875	980393.23	0.0605	P	1.6
6	☐	500.000	500.448	1881542.43	0.1165	A	4.1
7	☐	1000.000	995.593	3752183.24	0.2317	A	1.7
8	☐			1680.70	0.0001	P	6.4

$$y = 2.3275E-004 * x + 7.6726E-006$$

$$R = 0.9999$$

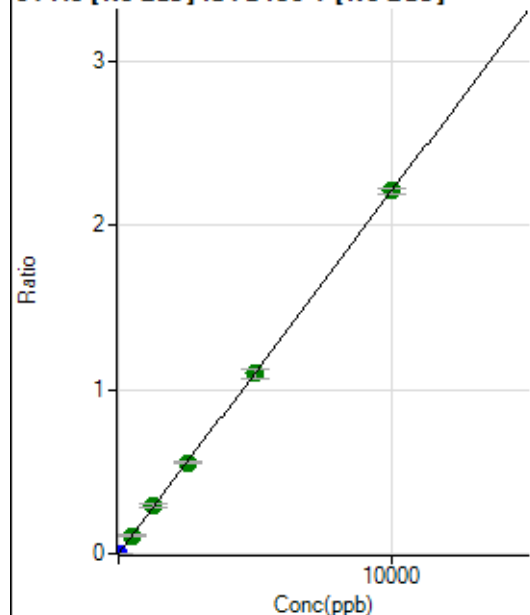
$$DL = 0.006688$$

$$BEC = 0.03297$$

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	188.89	0.0000	P	2.9
2	☐	5.000	5.604	20144.80	0.0012	P	0.5
3	☐	500.000	503.102	1811491.23	0.1111	A	5.5
4	☐	1250.000	1322.327	4532409.00	0.2920	A	5.2
5	☐	2500.000	2505.102	8965142.73	0.5532	A	1.9
6	☐	5000.000	4962.240	17697045.01	1.0957	A	4.6
7	☐	10000.000	10008.408	35784528.23	2.2100	A	1.9
8	☐			11982.98	0.0008	P	10.0

$$y = 2.2081E-004 * x + 1.1594E-005$$

$$R = 1.0000$$

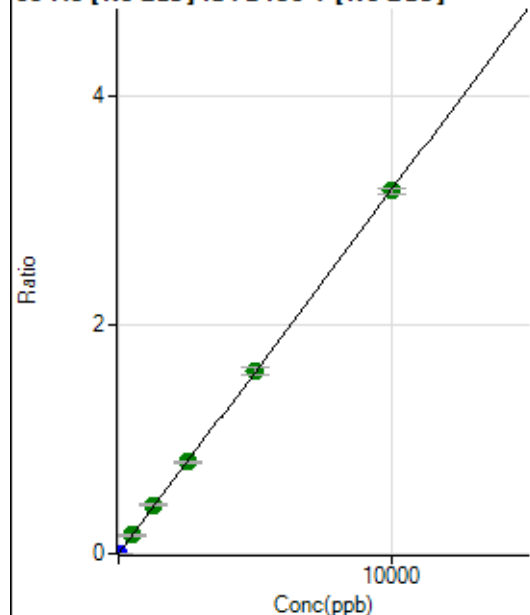
$$DL = 0.004584$$

$$BEC = 0.05251$$

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	13.89	0.0000	P	34.9
2	☐	5.000	4.780	24512.74	0.0015	P	1.7
3	☐	500.000	506.116	2621858.67	0.1609	A	6.2
4	☐	1250.000	1333.662	6580839.34	0.4239	A	4.7
5	☐	2500.000	2523.233	12996764.44	0.8019	A	1.1
6	☐	5000.000	5015.745	25745313.77	1.5941	A	4.6
7	☐	10000.000	9975.556	51336075.11	3.1704	A	1.3
8	☐			15767.21	0.0011	P	5.1

$$y = 3.1781E-004 * x + 8.5319E-007$$

$$R = 1.0000$$

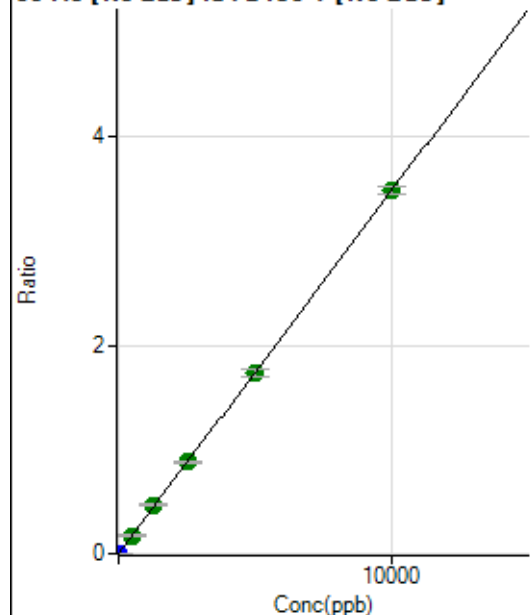
$$DL = 0.002812$$

$$BEC = 0.002685$$

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	80.56	0.0000	P	36.4
2	☐	5.000	4.950	27907.74	0.0017	P	3.3
3	☐	500.000	503.259	2860866.97	0.1755	A	5.5
4	☐	1250.000	1337.671	7241426.64	0.4664	A	5.0
5	☐	2500.000	2527.466	14282094.07	0.8812	A	0.9
6	☐	5000.000	4972.555	28003369.55	1.7337	A	4.3
7	☐	10000.000	9995.734	56432179.04	3.4851	A	2.0
8	☐			29032.20	0.0019	P	12.4

$$y = 3.4866\text{E-}004 * x + 4.9462\text{E-}006$$

$$R = 1.0000$$

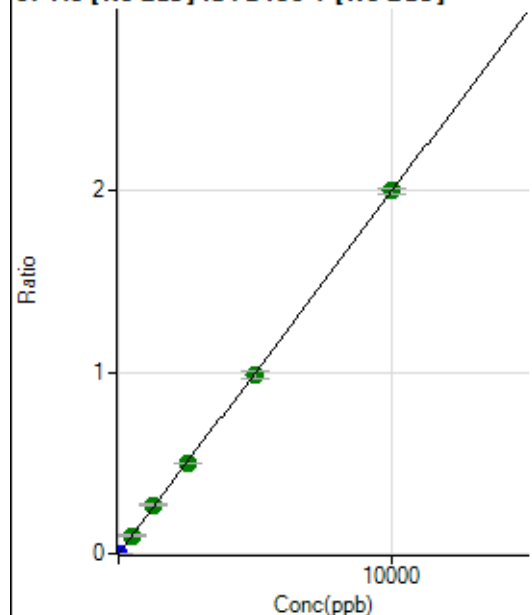
$$DL = 0.01547$$

$$BEC = 0.01419$$

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	16.67	0.0000	P	0.5
2	☐	5.000	4.819	15514.14	0.0010	P	4.5
3	☐	500.000	502.601	1633915.75	0.1002	A	6.5
4	☐	1250.000	1336.547	4139753.04	0.2666	A	4.5
5	☐	2500.000	2502.078	8088299.14	0.4991	A	1.5
6	☐	5000.000	4941.210	15917688.72	0.9856	A	4.7
7	☐	10000.000	10017.927	32355281.62	1.9982	A	1.8
8	☐			9892.49	0.0007	P	10.1

$$y = 1.9946\text{E-}004 * x + 1.0231\text{E-}006$$

$$R = 0.9999$$

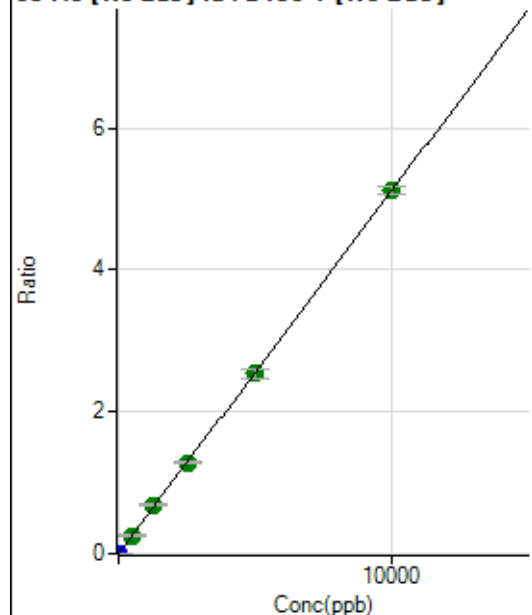
$$DL = 8.083\text{E-}05$$

$$BEC = 0.00513$$

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	38.89	0.0000	P	44.4
2	☐	5.000	4.845	39983.27	0.0025	P	3.0
3	☐	500.000	502.749	4190987.25	0.2570	A	5.4
4	☐	1250.000	1330.909	10564289.65	0.6804	A	4.7
5	☐	2500.000	2515.409	20842708.97	1.2860	A	1.8
6	☐	5000.000	4969.445	41033454.39	2.5407	A	4.9
7	☐	10000.000	10001.174	82793842.13	5.1132	A	2.1
8	☐			24785.56	0.0017	P	11.1

$$y = 5.1126\text{E-}004 * x + 2.3847\text{E-}006$$

$$R = 1.0000$$

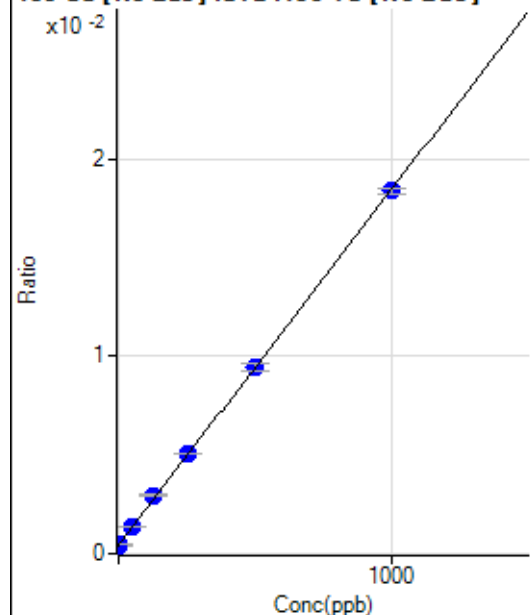
$$DL = 0.006209$$

$$BEC = 0.004664$$

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	5976.39	0.0004	P	1.1
2	☐	1.000	2.742	6604.45	0.0005	P	4.2
3	☐	50.000	52.694	19268.74	0.0014	P	3.4
4	☐	125.000	139.452	39145.08	0.0029	P	4.2
5	☐	250.000	256.803	70100.30	0.0051	P	0.8
6	☐	500.000	500.649	131283.70	0.0095	P	3.8
7	☐	1000.000	996.032	254286.24	0.0184	P	1.9
8	☐			5781.87	0.0005	P	3.0

$$y = 1.8017\text{E-}005 * x + 4.3423\text{E-}004$$

$$R = 0.9999$$

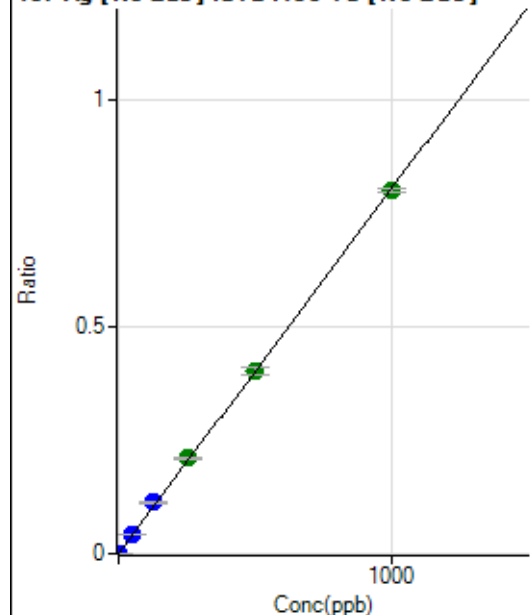
$$DL = 0.8174$$

$$BEC = 24.1$$

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	72.22	0.0000	P	7.0
2	☐	1.000	1.078	11924.61	0.0009	P	3.5
3	☐	50.000	53.847	603420.45	0.0434	P	5.0
4	☐	125.000	140.125	1498852.42	0.1128	P	4.0
5	☐	250.000	261.209	2912938.61	0.2103	A	1.1
6	☐	500.000	501.409	5605520.31	0.4037	A	3.7
7	☐	1000.000	994.410	11076434.88	0.8006	A	1.1
8	☐			4856.51	0.0004	P	15.8

$$y = 8.0506\text{E-}004 * x + 5.2487\text{E-}006$$

$$R = 0.9998$$

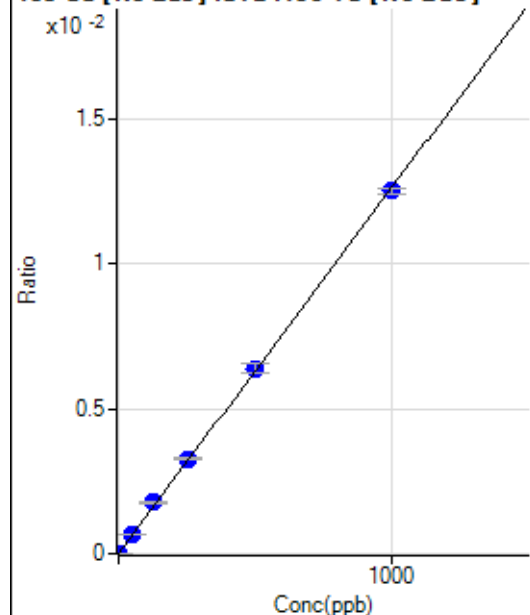
$$DL = 0.001376$$

$$BEC = 0.00652$$

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	78.5
2	☐	1.000	0.904	166.67	0.0000	P	18.0
3	☐	50.000	51.953	9123.80	0.0007	P	4.7
4	☐	125.000	139.379	23332.75	0.0018	P	6.7
5	☐	250.000	259.870	45369.28	0.0033	P	0.4
6	☐	500.000	507.066	88724.76	0.0064	P	5.1
7	☐	1000.000	992.105	172974.85	0.0125	P	1.8
8	☐			83.34	0.0000	P	4.4

$$y = 1.2601\text{E-}005 * x + 8.0922\text{E-}007$$

$$R = 0.9998$$

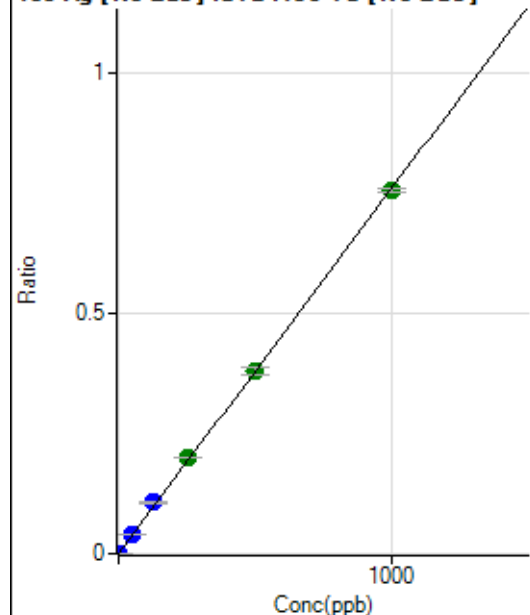
$$DL = 0.1511$$

$$BEC = 0.06422$$

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	2.78	0.0000	P	173.
2	☐	1.000	1.091	11304.68	0.0008	P	1.9
3	☐	50.000	53.694	567053.34	0.0407	P	5.3
4	☐	125.000	141.557	1427069.19	0.1074	P	4.3
5	☐	250.000	262.114	2754988.69	0.1989	A	0.2
6	☐	500.000	501.643	5285880.80	0.3807	A	3.9
7	☐	1000.000	993.895	10434909.52	0.7542	A	1.1
8	☐			4464.70	0.0004	P	13.4

$$y = 7.5882\text{E-}004 * x + 2.0276\text{E-}007$$

$$R = 0.9998$$

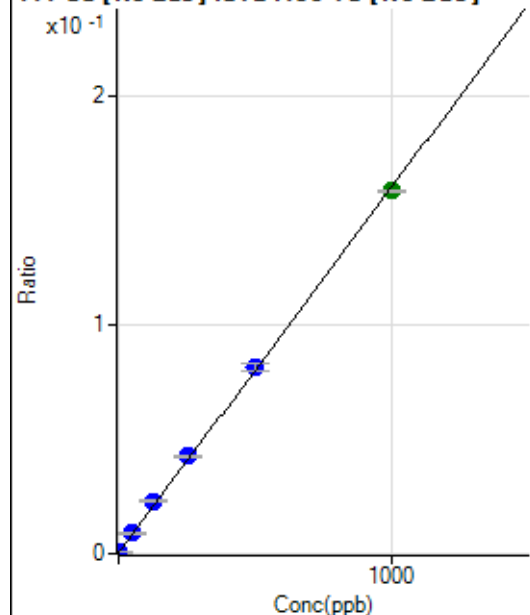
$$DL = 0.001388$$

$$BEC = 0.0002672$$

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	4175.69	0.0003	P	1.2
2	☐	1.000	1.255	6887.23	0.0005	P	2.4
3	☐	50.000	53.539	123496.47	0.0089	P	5.7
4	☐	125.000	141.078	304143.93	0.0229	P	4.3
5	☐	250.000	264.249	590243.07	0.0426	P	0.5
6	☐	500.000	507.706	1132920.39	0.0816	P	4.6
7	☐	1000.000	990.398	2198214.17	0.1589	A	0.8
8	☐			4930.69	0.0004	P	3.6

$$y = 1.6011\text{E-}004 * x + 3.0340\text{E-}004$$

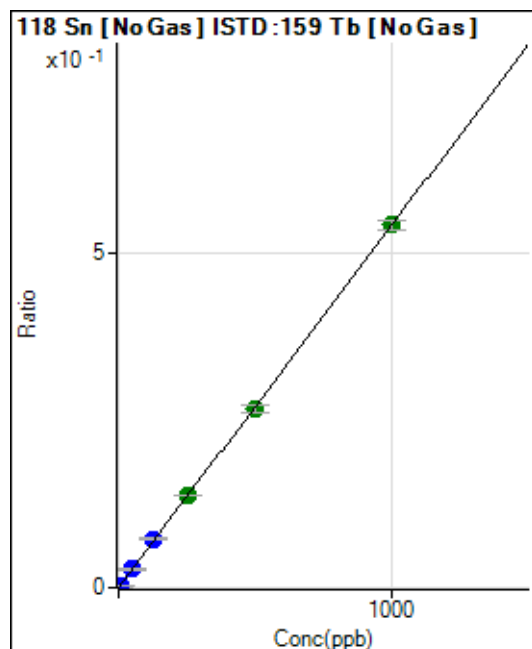
$$R = 0.9998$$

$$DL = 0.06993$$

$$BEC = 1.895$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1614.02	0.0001	P	2.3
2	☐	5.000	4.993	38471.42	0.0028	P	1.3
3	☐	50.000	51.067	385725.65	0.0277	P	6.3
4	☐	125.000	134.124	965039.75	0.0726	P	4.0
5	☐	250.000	252.685	1894019.46	0.1367	A	0.1
6	☐	500.000	492.904	3702013.10	0.2666	A	4.7
7	☐	1000.000	1001.683	7494500.43	0.5417	A	2.9
8	☐			14023.83	0.0011	P	9.7

$$y = 5.4068\text{E-}004 * x + 1.1728\text{E-}004$$

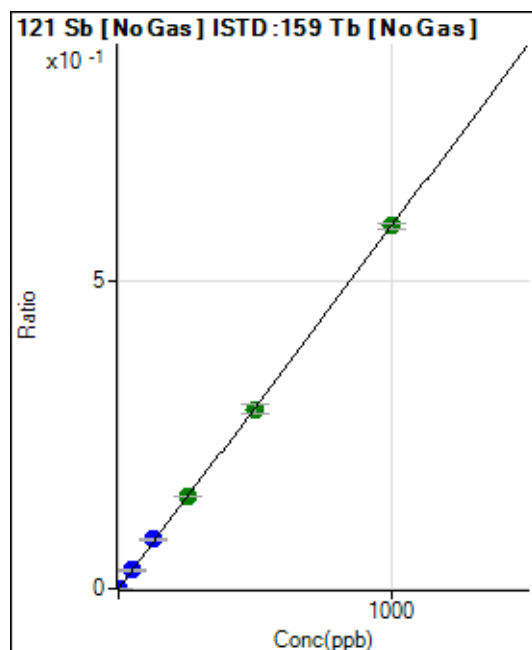
$$R = 0.9999$$

$$DL = 0.01485$$

$$BEC = 0.2169$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	61.11	0.0000	P	39.4
2	☐	2.000	2.041	16512.61	0.0012	P	2.7
3	☐	50.000	50.888	418150.59	0.0300	P	5.1
4	☐	125.000	135.231	1060644.56	0.0798	P	4.4
5	☐	250.000	253.625	2073825.85	0.1497	A	1.0
6	☐	500.000	495.388	4060563.63	0.2924	A	4.5
7	☐	1000.000	1000.077	8168040.37	0.5904	A	1.9
8	☐			7015.78	0.0006	P	4.9

$$y = 5.9032\text{E-}004 * x + 4.4408\text{E-}006$$

$$R = 0.9999$$

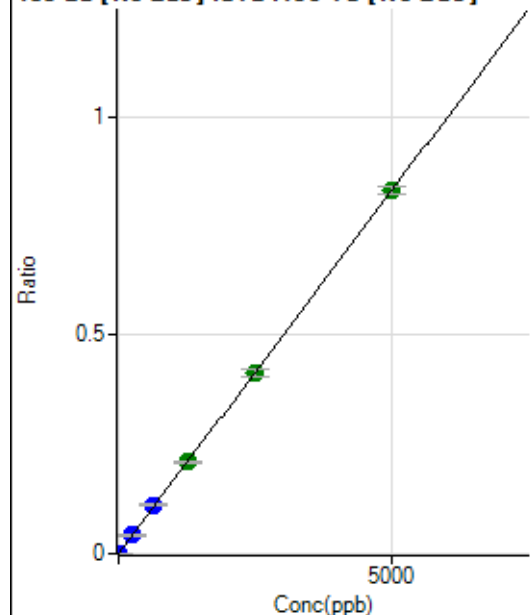
$$DL = 0.008893$$

$$BEC = 0.007523$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	36.11	0.0000	P	12.9
2	☐	10.000	9.781	22231.78	0.0016	P	3.7
3	☐	250.000	252.050	582905.38	0.0419	P	5.4
4	☐	625.000	668.381	1475592.03	0.1111	P	4.9
5	☐	1250.000	1266.655	2915460.89	0.2105	A	1.5
6	☐	2500.000	2481.557	5726298.87	0.4124	A	4.0
7	☐	5000.000	4999.533	11494460.41	0.8308	A	2.3
8	☐			5128.84	0.0004	P	5.9

$$y = 1.6618\text{E-}004 * x + 2.6229\text{E-}006$$

$$R = 0.9999$$

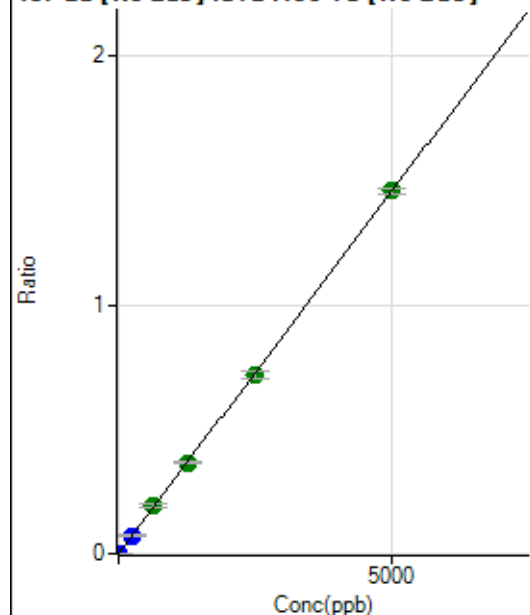
$$DL = 0.006121$$

$$BEC = 0.01578$$

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	50.00	0.0000	P	0.5
2	☐	10.000	10.063	40037.67	0.0029	P	2.6
3	☐	250.000	250.980	1016389.98	0.0730	P	5.3
4	☐	625.000	662.501	2560201.71	0.1928	A	5.7
5	☐	1250.000	1259.533	5076490.52	0.3665	A	1.6
6	☐	2500.000	2466.679	9966671.75	0.7178	A	4.0
7	☐	5000.000	5009.540	20167884.65	1.4577	A	1.6
8	☐			9586.79	0.0008	P	10.9

$$y = 2.9098\text{E-}004 * x + 3.6330\text{E-}006$$

$$R = 0.9999$$

$$DL = 0.0001778$$

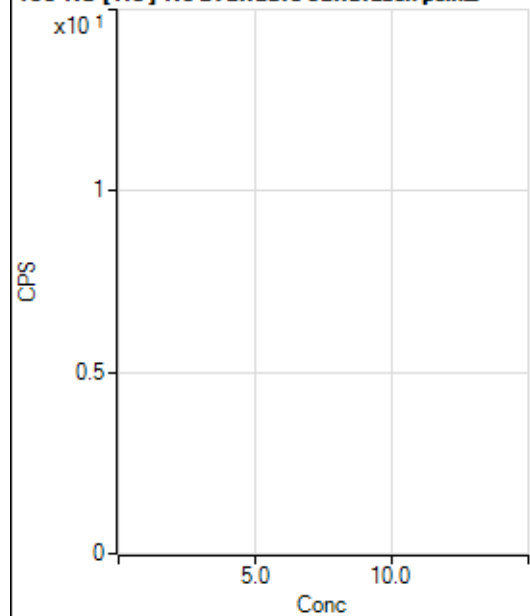
$$BEC = 0.01249$$

Weight: <None>

Min Conc: 0

150 Nd [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			11.11		P	124.
2	☐			6.67		P	100.
3	☐			91.11		P	29.6
4	☐			188.90		P	30.4
5	☐			333.34		P	17.8
6	☐			655.59		P	2.1
7	☐			1302.31		P	8.3
8	☐			122.23		P	22.0

150 Nd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			0.00		P	
2	☐			1.11		P	173.
3	☐			13.33		P	50.0
4	☐			50.00		P	35.3
5	☐			55.56		P	9.2
6	☐			130.00		P	27.7
7	☐			258.89		P	2.0
8	☐			58.89		P	13.1

156 Dy [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			5.55		P	86.6
2	☐			5.56		P	173.
3	☐			55.56		P	31.2
4	☐			97.22		P	30.1
5	☐			175.01		P	8.2
6	☐			277.79		P	12.5
7	☐			602.81		P	5.6
8	☐			1444.56		P	2.4

156 Dy [He] No available calibration points

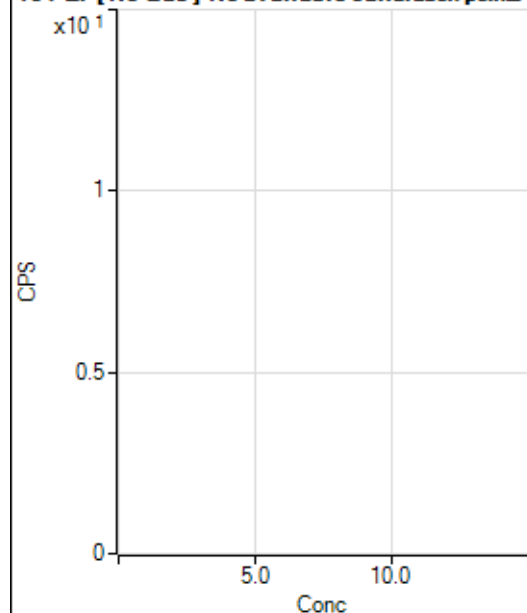
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2.22		P	173.
2	☐			3.33		P	0.0
3	☐			34.44		P	29.6
4	☐			76.67		P	15.7
5	☐			176.67		P	7.5
6	☐			310.01		P	11.6
7	☐			597.80		P	0.9
8	☐			1051.16		P	5.3

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

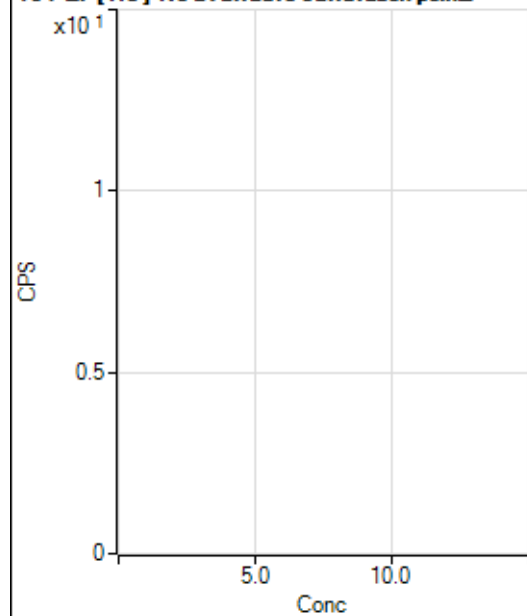
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			61.11		P	28.4
2	☐			80.56		P	23.9
3	☐			72.22		P	40.5
4	☐			97.23		P	24.7
5	☐			119.45		P	10.7
6	☐			263.90		P	16.2
7	☐			411.13		P	13.5
8	☐			1286.21		P	3.0

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			384.45		P	8.6
2	☐			371.12		P	13.0
3	☐			398.90		P	19.1
4	☐			432.23		P	2.9
5	☐			438.90		P	3.1
6	☐			460.01		P	6.9
7	☐			574.46		P	7.0
8	☐			1204.51		P	4.5

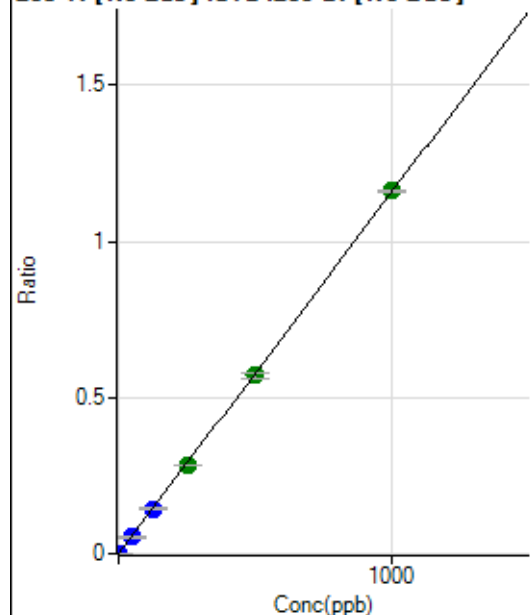
164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			66.67		P	54.5
2	☐			44.45		P	10.8
3	☐			77.78		P	6.2
4	☐			58.34		P	24.7
5	☐			100.00		P	16.7
6	☐			138.89		P	12.5
7	☐			141.67		P	21.2
8	☐			125.00		P	29.1

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			28.89		P	48.0
2	☐			50.00		P	13.3
3	☐			48.89		P	27.6
4	☐			53.33		P	12.5
5	☐			40.00		P	30.0
6	☐			78.89		P	8.8
7	☐			93.34		P	18.9
8	☐			90.00		P	14.8

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	102.78	0.0000	P	23.4
2	☐	1.000	0.948	9381.25	0.0011	P	2.7
3	☐	50.000	46.688	466209.93	0.0540	P	6.2
4	☐	125.000	124.799	1192394.68	0.1442	P	3.7
5	☐	250.000	245.222	2453055.68	0.2834	A	1.2
6	☐	500.000	493.203	4820329.01	0.5699	A	3.2
7	☐	1000.000	1004.784	9641731.21	1.1611	A	0.8
8	☐			2505.86	0.0004	P	18.5

$$y = 0.0012 * x + 1.2055E-005$$

$$R = 1.0000$$

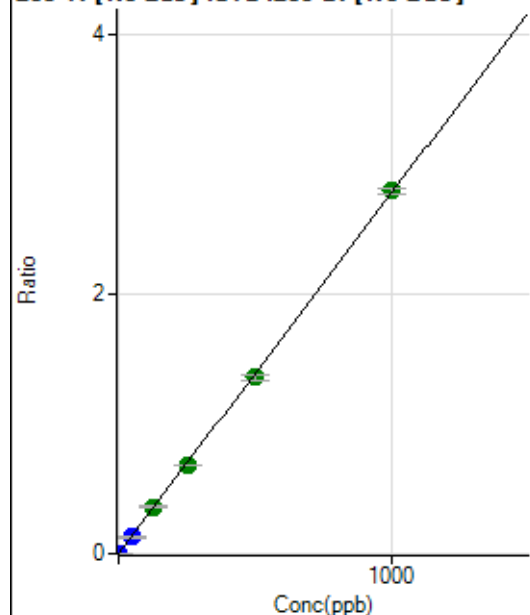
$$DL = 0.007337$$

$$BEC = 0.01043$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	250.01	0.0000	P	11.2
2	☐	1.000	0.942	22374.43	0.0026	P	1.4
3	☐	50.000	46.390	1111631.44	0.1287	P	6.8
4	☐	125.000	128.359	2943270.05	0.3560	A	4.3
5	☐	250.000	245.322	5890596.18	0.6805	A	1.2
6	☐	500.000	488.953	11470487.84	1.3562	A	3.2
7	☐	1000.000	1006.454	23180205.55	2.7915	A	1.5
8	☐			5984.84	0.0009	P	16.3

$$y = 0.0028 * x + 2.9312E-005$$

$$R = 0.9999$$

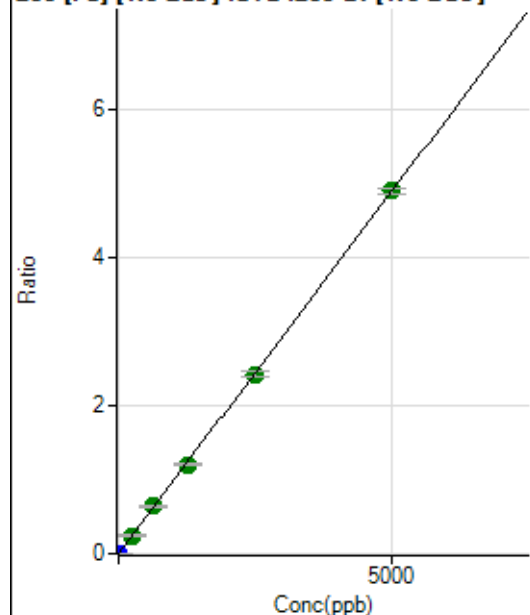
$$DL = 0.003542$$

$$BEC = 0.01057$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	462.98	0.0001	P	11.4
2	☐	1.000	0.906	7950.58	0.0009	P	2.0
3	☐	250.000	247.182	2084701.87	0.2414	A	6.8
4	☐	625.000	652.197	5264450.00	0.6368	A	4.4
5	☐	1250.000	1232.613	10417253.01	1.2034	A	1.6
6	☐	2500.000	2478.804	20468828.93	2.4200	A	2.7
7	☐	5000.000	5011.686	40628570.82	4.8928	A	1.7
8	☐			8361.96	0.0012	P	10.7

$$y = 9.7626\text{E-}004 * x + 5.4300\text{E-}005$$

$$R = 1.0000$$

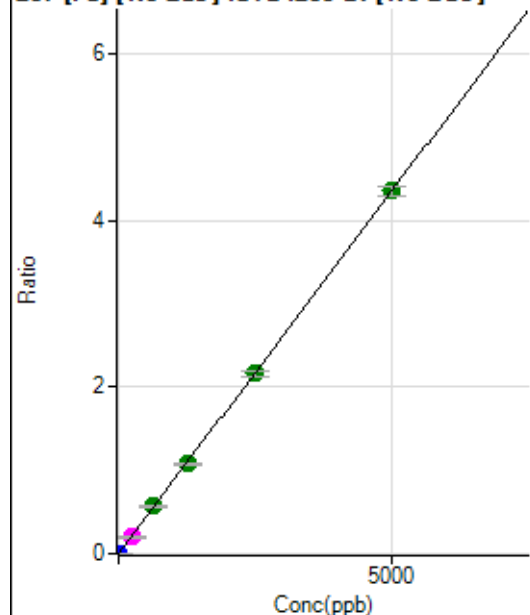
$$DL = 0.01901$$

$$BEC = 0.05562$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	351.87	0.0000	P	9.8
2	☐	1.000	0.855	6649.90	0.0008	P	1.7
3	☐	250.000	232.086	1743563.04	0.2019	M	7.8
4	☐	625.000	653.236	4695503.29	0.5681	A	4.9
5	☐	1250.000	1234.876	9294786.78	1.0739	A	3.1
6	☐	2500.000	2487.834	18297063.26	2.1634	A	3.5
7	☐	5000.000	5007.230	36154007.75	4.3542	A	2.4
8	☐			7000.07	0.0010	P	11.2

$$y = 8.6958\text{E-}004 * x + 4.1272\text{E-}005$$

$$R = 1.0000$$

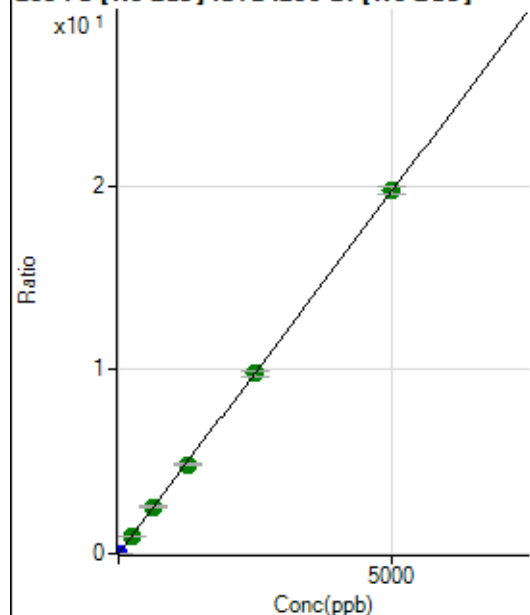
$$DL = 0.0139$$

$$BEC = 0.04746$$

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	1837.12	0.0002	P	5.1
2	☐	1.000	0.893	31615.05	0.0037	P	1.2
3	☐	250.000	242.678	8260052.72	0.9561	A	6.4
4	☐	625.000	650.337	21177972.52	2.5619	A	4.3
5	☐	1250.000	1233.006	42041543.99	4.8570	A	2.4
6	☐	2500.000	2483.150	82724809.84	9.7812	A	3.5
7	☐	5000.000	5009.873	163857708.2	19.7339	A	2.1
8	☐			33233.28	0.0048	P	9.6

$$y = 0.0039 * x + 2.1543E-004$$

$$R = 1.0000$$

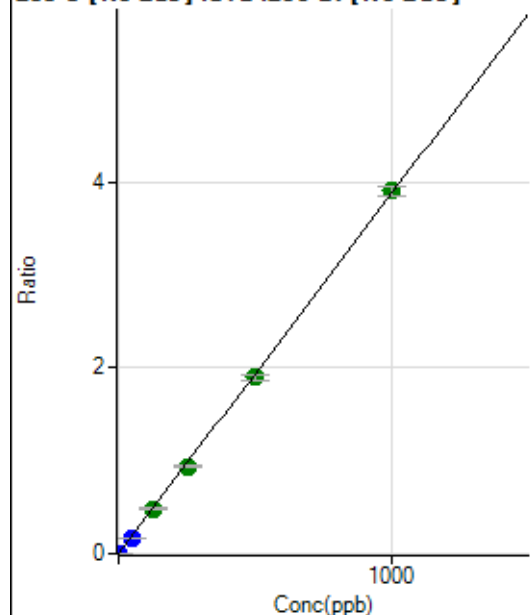
$$DL = 0.008388$$

$$BEC = 0.05469$$

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	36.11	0.0000	P	26.7
2	☐	1.000	0.865	28456.71	0.0034	P	2.7
3	☐	50.000	43.030	1441461.69	0.1669	P	6.8
4	☐	125.000	124.506	3992219.88	0.4829	A	3.9
5	☐	250.000	240.900	8087040.72	0.9343	A	2.4
6	☐	500.000	489.682	16062740.46	1.8991	A	3.1
7	☐	1000.000	1007.844	32456095.87	3.9087	A	2.5
8	☐			2619.79	0.0004	P	13.6

$$y = 0.0039 * x + 4.2356E-006$$

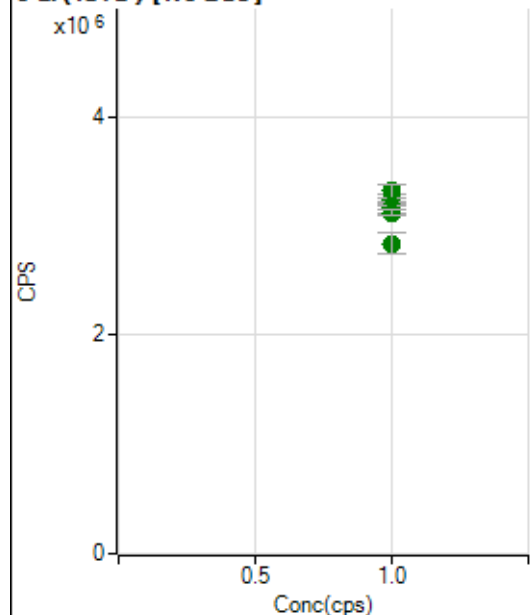
$$R = 0.9999$$

$$DL = 0.0008743$$

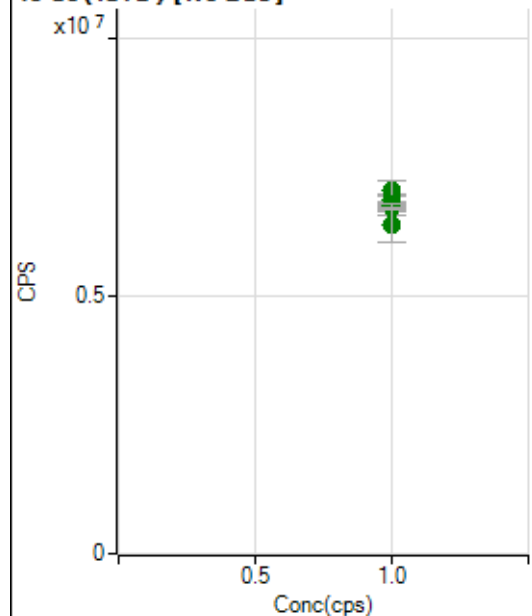
$$BEC = 0.001092$$

Weight: <None>

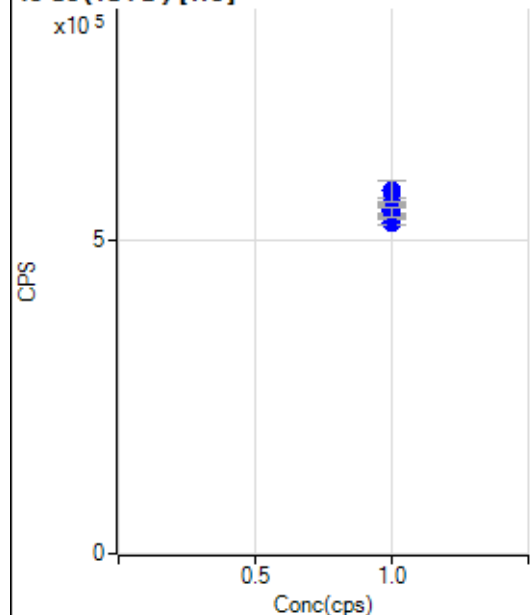
Min Conc: 0

6 Li (ISTD) [No Gas]

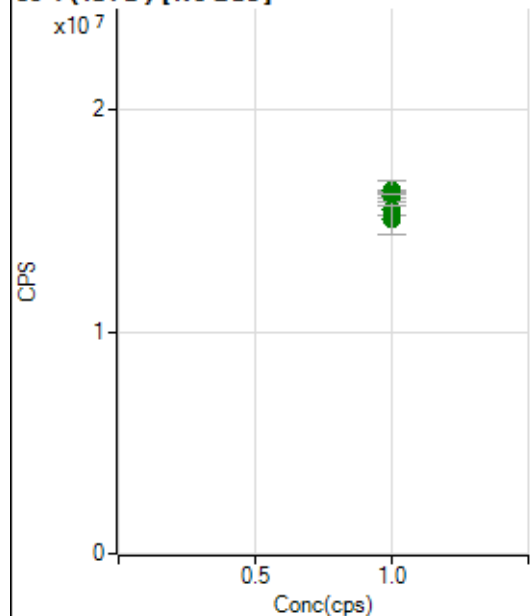
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3298079.85		A	0.2
2	☐	1.000		3239902.83		A	1.7
3	☐	1.000		3324136.30		A	3.5
4	☐	1.000		3192089.85		A	2.3
5	☐	1.000		3170704.71		A	1.3
6	☐	1.000		3158379.99		A	2.2
7	☐	1.000		3122384.53		A	1.7
8	☐	1.000		2843731.31		A	7.1

45 Sc (ISTD) [No Gas]

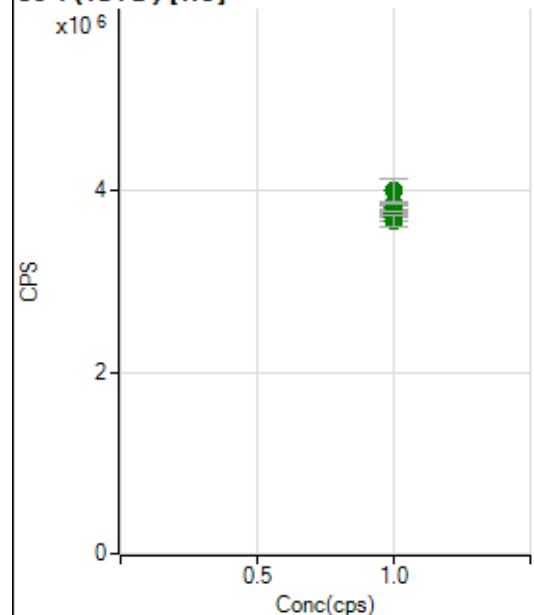
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6960081.01		A	0.6
2	☐	1.000		6891631.98		A	2.5
3	☐	1.000		7050760.87		A	5.7
4	☐	1.000		6713939.07		A	4.1
5	☐	1.000		6785835.59		A	0.6
6	☐	1.000		6725762.26		A	1.8
7	☐	1.000		6760689.83		A	1.1
8	☐	1.000		6384825.04		A	9.8

45 Sc (ISTD) [He]

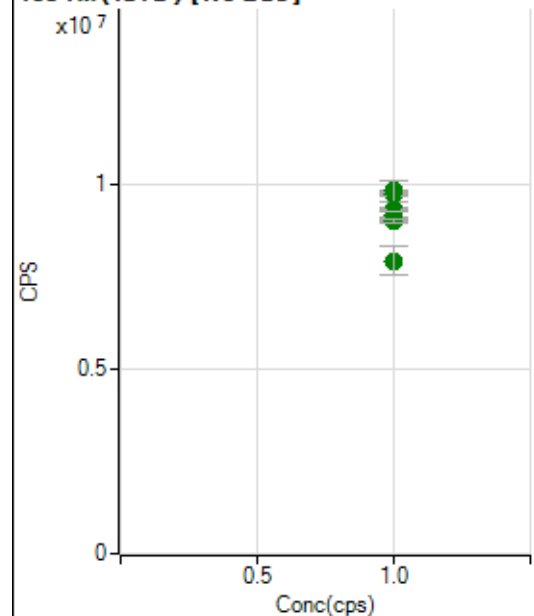
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		568747.14		P	0.1
2	☐	1.000		559868.39		P	0.1
3	☐	1.000		550712.81		P	1.8
4	☐	1.000		580150.41		P	5.9
5	☐	1.000		537313.09		P	0.9
6	☐	1.000		529458.02		P	1.7
7	☐	1.000		536736.23		P	0.6
8	☐	1.000		546013.60		P	3.3

89 Y (ISTD) [No Gas]

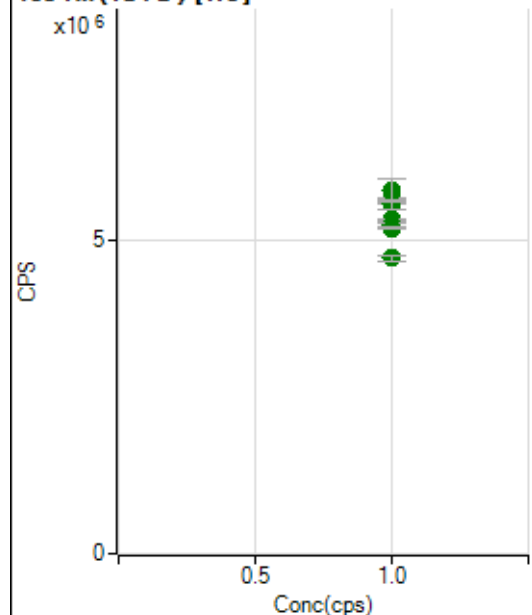
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		16293137.12		A	0.5
2	☐	1.000		16129524.76		A	1.7
3	☐	1.000		16338597.81		A	5.8
4	☐	1.000		15544630.74		A	4.3
5	☐	1.000		16207236.15		A	0.3
6	☐	1.000		16159248.79		A	1.8
7	☐	1.000		16193058.93		A	0.5
8	☐	1.000		15028482.14		A	8.5

89 Y (ISTD) [He]

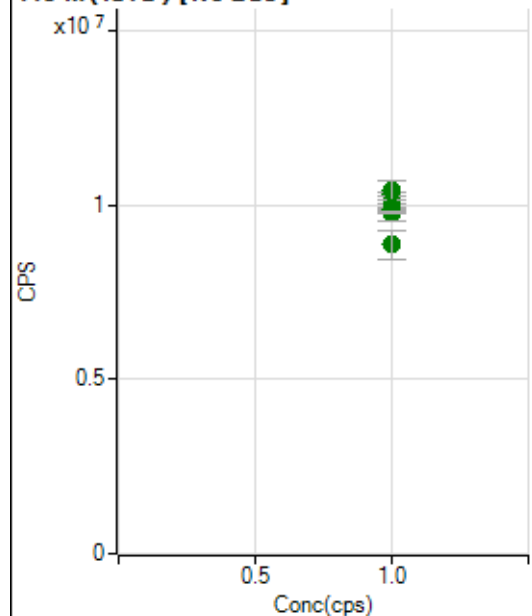
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3843364.91		A	0.4
2	☐	1.000		3784041.92		A	0.1
3	☐	1.000		3802577.27		A	2.6
4	☐	1.000		3994218.14		A	6.2
5	☐	1.000		3718953.45		A	0.5
6	☐	1.000		3696456.72		A	2.1
7	☐	1.000		3739282.06		A	1.0
8	☐	1.000		3670145.29		A	3.5

103 Rh (ISTD) [No Gas]

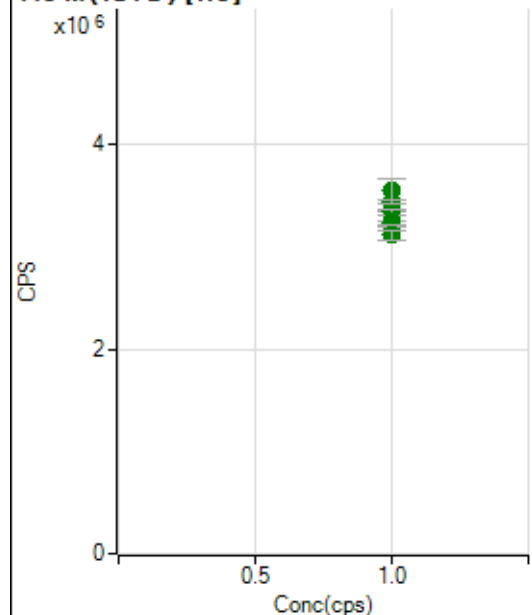
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		9792373.12		A	1.5
2	☐	1.000		9737778.88		A	0.8
3	☐	1.000		9824889.93		A	5.9
4	☐	1.000		9188398.26		A	3.5
5	☐	1.000		9325752.22		A	0.4
6	☐	1.000		9188918.75		A	1.5
7	☐	1.000		9018931.04		A	0.8
8	☐	1.000		7925877.59		A	9.7

103 Rh (ISTD) [He]

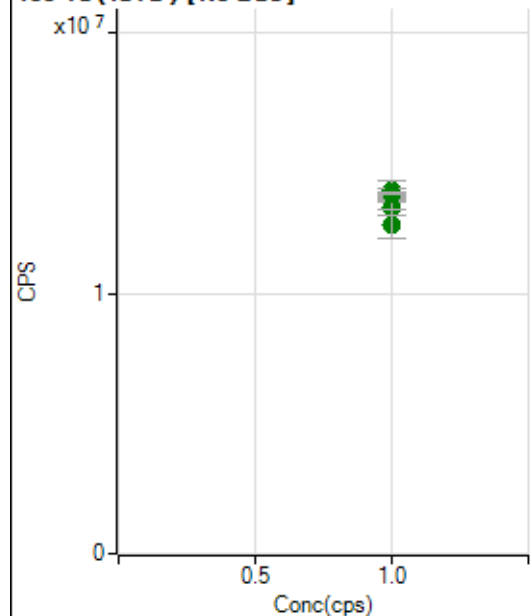
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5631605.75		A	1.3
2	☐	1.000		5563612.97		A	0.3
3	☐	1.000		5555735.23		A	2.5
4	☐	1.000		5771041.58		A	6.3
5	☐	1.000		5312128.85		A	0.6
6	☐	1.000		5224514.82		A	1.2
7	☐	1.000		5184641.00		A	0.7
8	☐	1.000		4698942.78		A	2.4

115 In (ISTD) [No Gas]

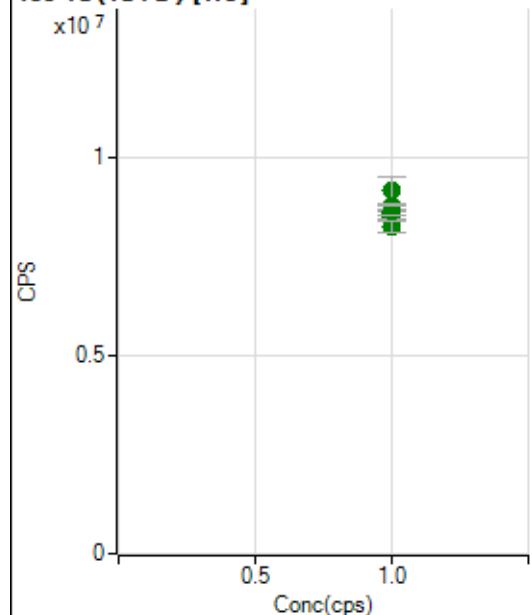
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		10291751.92		A	1.0
2	☐	1.000		10141859.92		A	1.8
3	☐	1.000		10398393.60		A	5.3
4	☐	1.000		9772793.37		A	4.9
5	☐	1.000		9900362.14		A	0.5
6	☐	1.000		9843749.89		A	1.1
7	☐	1.000		9789307.16		A	0.2
8	☐	1.000		8850075.04		A	9.9

115 In (ISTD) [He]

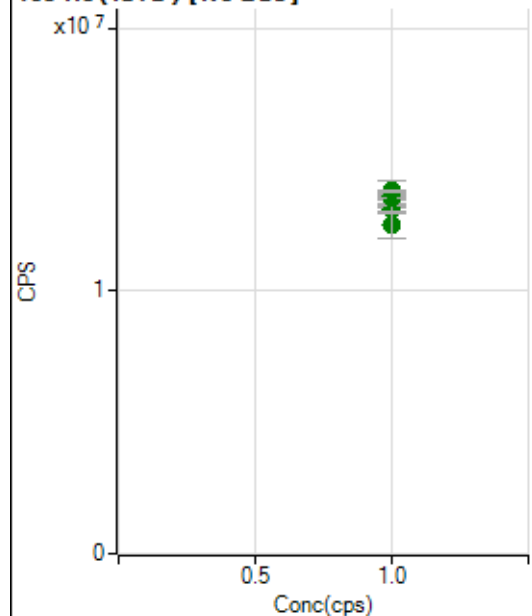
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3431797.33		A	1.2
2	☐	1.000		3351538.72		A	0.6
3	☐	1.000		3335860.41		A	2.1
4	☐	1.000		3543291.82		A	6.6
5	☐	1.000		3253099.91		A	0.1
6	☐	1.000		3228131.32		A	1.5
7	☐	1.000		3208795.45		A	0.7
8	☐	1.000		3115407.34		A	3.0

159 Tb (ISTD) [No Gas]

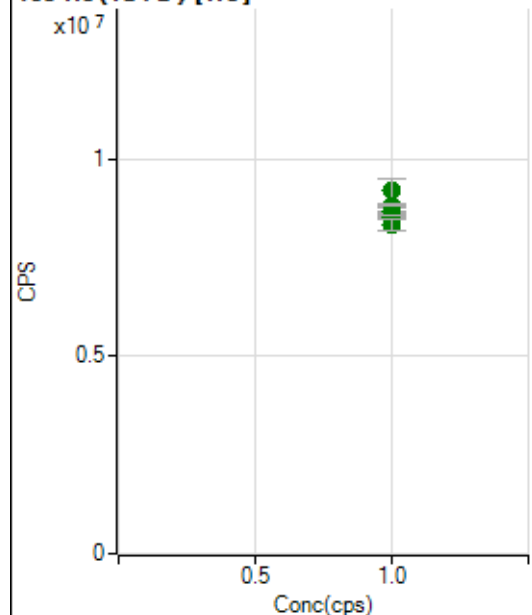
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		13762883.55		A	0.5
2	☐	1.000		13657087.85		A	0.3
3	☐	1.000		13944713.68		A	5.7
4	☐	1.000		13302183.69		A	4.8
5	☐	1.000		13851260.77		A	0.5
6	☐	1.000		13892444.79		A	1.8
7	☐	1.000		13836326.74		A	0.5
8	☐	1.000		12645677.31		A	8.7

159 Tb (ISTD) [He]

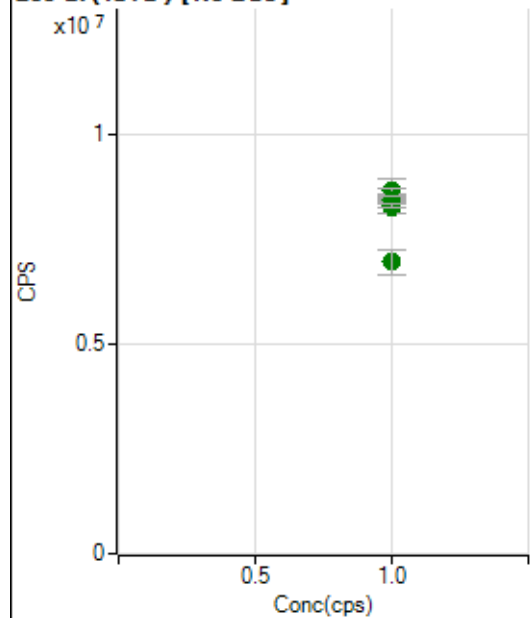
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		8593062.30		A	0.9
2	☐	1.000		8482296.96		A	1.2
3	☐	1.000		8557886.61		A	2.9
4	☐	1.000		9147221.81		A	7.4
5	☐	1.000		8650513.62		A	0.8
6	☐	1.000		8609798.90		A	2.1
7	☐	1.000		8792273.83		A	0.3
8	☐	1.000		8239810.50		A	3.0

165 Ho (ISTD) [No Gas]

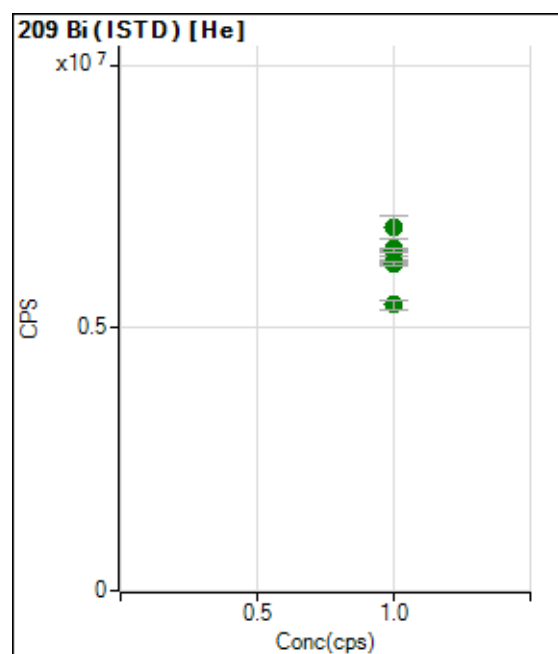
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		13480908.69		A	0.8
2	☐	1.000		13258246.33		A	1.2
3	☐	1.000		13724603.68		A	7.1
4	☐	1.000		13095226.05		A	2.6
5	☐	1.000		13537544.80		A	0.7
6	☐	1.000		13599969.80		A	1.2
7	☐	1.000		13796922.16		A	0.8
8	☐	1.000		12518411.48		A	8.3

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		8570152.79		A	1.5
2	☐	1.000		8526733.62		A	1.5
3	☐	1.000		8560939.04		A	1.9
4	☐	1.000		9183720.83		A	7.0
5	☐	1.000		8672794.32		A	0.2
6	☐	1.000		8671243.76		A	2.3
7	☐	1.000		8831309.52		A	0.6
8	☐	1.000		8318031.89		A	3.6

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		8526787.23		A	0.5
2	☐	1.000		8472356.96		A	0.4
3	☐	1.000		8664479.39		A	7.0
4	☐	1.000		8274289.19		A	3.5
5	☐	1.000		8657375.70		A	1.3
6	☐	1.000		8460369.18		A	1.4
7	☐	1.000		8304320.85		A	0.9
8	☐	1.000		6969161.63		A	8.3



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6496743.24		A	0.8
2	☐	1.000		6484720.67		A	1.0
3	☐	1.000		6432607.47		A	2.1
4	☐	1.000		6901675.25		A	6.3
5	☐	1.000		6484408.65		A	1.4
6	☐	1.000		6245646.43		A	1.0
7	☐	1.000		6226867.06		A	1.2
8	☐	1.000		5441047.56		A	3.5

US EPA Tune Check Report

Operator Name Jaswal
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\IP7112322MS.b
Acq. Date-Time 2022-11-23 10:23:56
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		11200	111996.07			0.423	5.000
24		309177	3091773.24			0.416	5.000
25		42679	426792.09			0.230	5.000
26		47813	478127.69			0.245	5.000
59		87298	872975.66			0.804	5.000
113		9890	98900.69			0.432	5.000
115		124164	1241640.61			0.642	5.000
206		31616	316163.21			0.575	5.000
207		29745	297449.39			0.362	5.000
208		67204	672036.48			0.234	5.000
220		0	3.00			40.825	

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

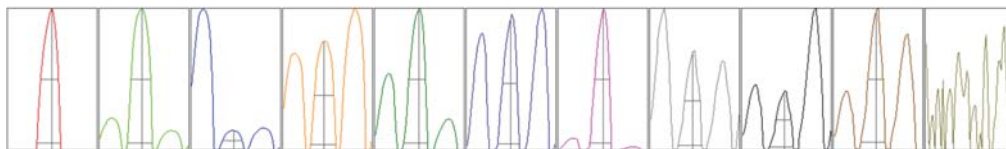
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	11247	11253	11182	11155	11160
24	311015	308311	309947	308739	307875
25	42733	42790	42716	42607	42550
26	47959	47860	47647	47758	47840
59	87794	86121	87206	87550	87817
113	9918	9947	9848	9885	9852
115	123782	123477	124192	123854	125515
206	31488	31916	31470	31560	31647
207	29693	29844	29750	29847	29591
208	67111	67431	67299	67128	67050

US EPA Tune Check Report

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

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	20116.18	9.00	8.90 - 9.10	
24	496694.95	23.95	23.90 - 24.10	
25	67396.85	24.95	24.90 - 25.10	
26	76131.44	25.90	25.90 - 26.10	
59	163171.45	59.00	58.90 - 59.10	
113	20550.89	113.00	112.90 - 113.10	
115	261007.70	115.05	114.90 - 115.10	
206	62665.83	205.95	205.90 - 206.10	
207	57268.09	206.95	206.90 - 207.10	
208	135711.01	207.95	207.90 - 208.10	
220			-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.59	0.786	0.900	
24	0.66	0.833	0.900	
25	0.66	0.835	0.900	
26	0.66	0.836	0.900	
59	0.55	0.802	0.900	
113	0.48	0.732	0.900	
115	0.49	0.723	0.900	
206	0.52	0.786	0.900	
207	0.51	0.797	0.900	
208	0.50	0.817	0.900	
220				

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode --- Nebulizer Gas 0.78 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	9.7 V	Deflect	15.2 V
Extract 2	-140.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-75 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	122	Axis Gain	1.0001	QP Bias	-3.0 V
Mass Offset	124	Axis Offset	-0.02		

Hardware Settings

Torch

Torch H	-0.3 mm	Torch V	0.7 mm
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EM

Discriminator	3.1 mV	Analog HV	2229 V	Pulse HV	1454 V
---------------	--------	-----------	--------	----------	--------

[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		29206	292058.00			0.208	
89		92519	925189.86			1.113	
205		30833	308333.28			0.234	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	29276	29254	29145	29209	29144
89	93770	92088	91034	92672	93030
205	30848	30827	30750	30798	30944

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.78 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	10.4 V	Deflect	3.4 V
-----------	-------	------------	--------	---------	-------

US EPA Tune Check Report

Extract 2	-145.0 V	Cell Entrance	-40 V	Plate Bias	-60 V
Omega Bias	-80 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	122	Axis Gain	1.0001	QP Bias	-13.0 V
Mass Offset	124	Axis Offset	-0.02		

Hardware Settings

Torch

Torch H	-0.3 mm	Torch V	0.7 mm
---------	---------	---------	--------

EM

Discriminator	3.1 mV	Analog HV	2229 V	Pulse HV	1454 V
---------------	--------	-----------	--------	----------	--------