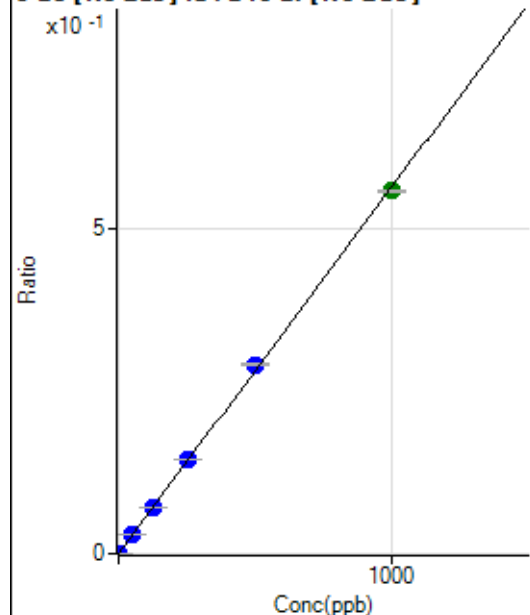


Calibration for 004CALB.d

Batch Folder: D:\Agilent\ICPMH\1\DATA\P8052623 MS.b\
 Analysis File: P8052623 MS.batch.bin
 DA Date-Time: 2023-05-26 19:31:25
 Calibration Title:
 Calibration Method: External Calibration
 VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.d	S00	2023-05-26 12:45:34
2	005CALS.d	S02	2023-05-26 12:48:36
3	006CALS.d	S03	2023-05-26 12:51:42
4	007CALS.d	S04	2023-05-26 12:54:42
5	008CALS.d	S05	2023-05-26 12:57:43
6	009CALS.d	S06	2023-05-26 13:00:42
7	010CALS.d	S07	2023-05-26 13:03:44
8	011CALS.d	S08	2023-05-26 13:06:42

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	18.33	0.0000	P	34.7
2	☐	1.000	1.138	1469.89	0.0006	P	3.7
3	☐	50.000	51.597	67036.11	0.0291	P	1.3
4	☐	125.000	126.313	164538.25	0.0712	P	2.7
5	☐	250.000	256.462	327057.12	0.1445	P	0.9
6	☐	500.000	515.756	641083.09	0.2907	P	1.0
7	☐	1000.000	990.262	1266411.49	0.5581	A	0.7
8	☐			692.85	0.0003	P	7.1

$$y = 5.6359E-004 * x + 8.2226E-006$$

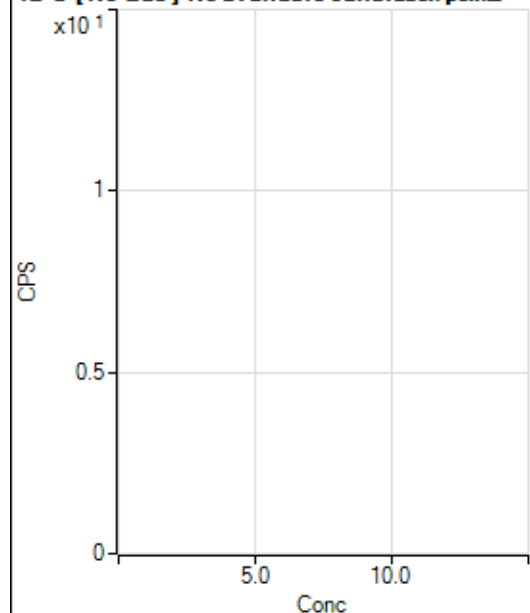
$$R = 0.9998$$

$$DL = 0.01519$$

$$BEC = 0.01459$$

Weight: <None>

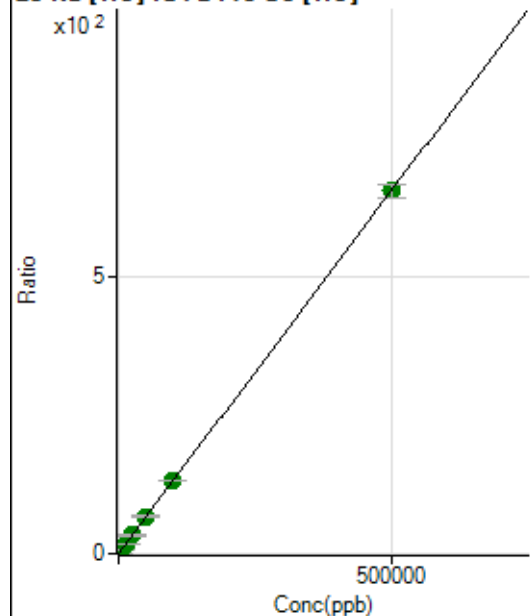
Min Conc: 0

12 C [No Gas] No available calibration points

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐			2761319.18		A	0.1
2	☐			2780586.54		A	1.0
3	☐			2903807.31		A	0.4
4	☐			3253372.49		A	2.8
5	☐			3706508.77		A	2.4
6	☐			3370657.95		A	1.5
7	☐			3732448.91		A	4.1
8	☐			3555682.94		A	4.5

12 C [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			36507.03		P	0.6
2	☐			37133.64		P	1.4
3	☐			38178.11		P	2.1
4	☐			45370.93		P	3.8
5	☐			53916.02		P	1.0
6	☐			45473.99		P	1.9
7	☐			53960.63		P	1.1
8	☐			56112.95		P	1.5

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	25525.64	0.1595	P	8.6
2	☐	500.000	511.841	126543.54	0.8308	P	0.6
3	☐	5000.000	5217.917	1073829.71	7.0035	A	2.5
4	☐	12500.000	12161.941	2520780.50	16.1116	A	4.9
5	☐	25000.000	25684.231	5008450.63	33.8481	A	6.7
6	☐	50000.000	51331.274	10067379.13	67.4879	A	1.2
7	☐	100000.00	100980.52	19671027.00	132.6101	A	0.3
8	☐	500000.00	499642.81	93237493.75	655.5136	A	3.7

$$y = 0.0013 * x + 0.1595$$

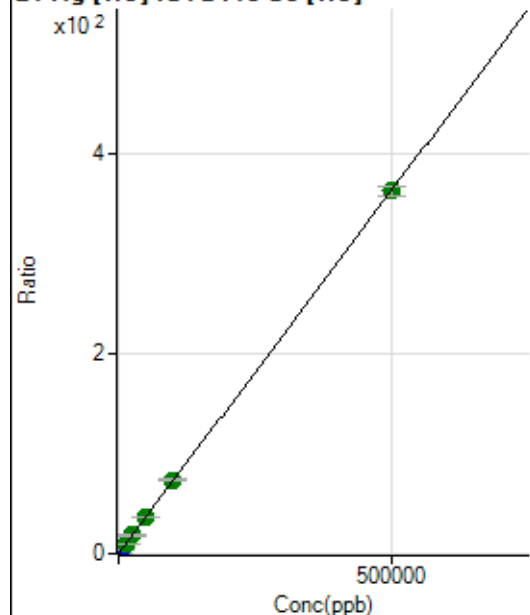
$$R = 1.0000$$

$$DL = 31.21$$

$$BEC = 121.6$$

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	436.13	0.0027	P	17.4
2	☐	500.000	504.562	56156.23	0.3687	P	1.9
3	☐	5000.000	5122.939	570293.44	3.7191	P	1.3
4	☐	12500.000	12688.290	1440327.31	9.2073	A	5.3
5	☐	25000.000	26214.958	2813610.26	19.0201	A	8.1
6	☐	50000.000	50839.960	5501485.45	36.8842	A	2.1
7	☐	100000.00	101610.78	10934193.91	73.7155	A	1.1
8	☐	500000.00	499527.15	51552751.85	362.3809	A	2.8

$$y = 7.2544\text{E-}004 * x + 0.0027$$

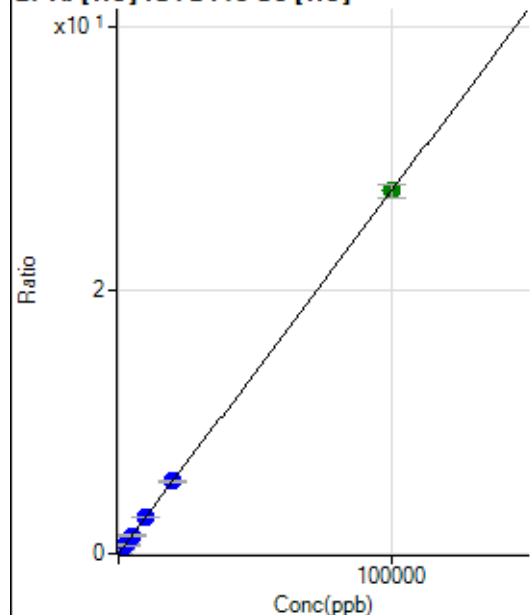
$$R = 1.0000$$

$$DL = 1.935$$

$$BEC = 3.715$$

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	44.58	0.0003	P	19.9
2	☐	20.000	20.248	892.84	0.0059	P	2.3
3	☐	1000.000	1021.605	43252.55	0.2821	P	1.6
4	☐	2500.000	2388.715	103085.31	0.6592	P	6.3
5	☐	5000.000	5022.528	205037.57	1.3857	P	6.8
6	☐	10000.000	9983.785	410833.15	2.7542	P	0.7
7	☐	20000.000	19946.331	816178.96	5.5024	P	0.8
8	☐	100000.00	100013.79	3924056.58	27.5885	A	3.7

$$y = 2.7584\text{E-}004 * x + 2.7681\text{E-}004$$

$$R = 1.0000$$

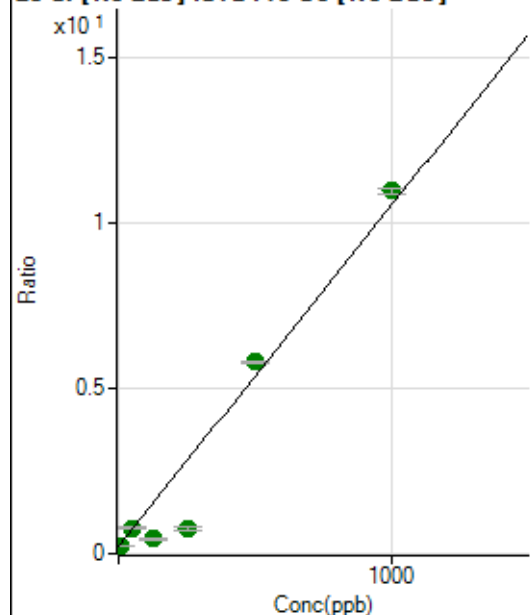
$$DL = 0.5983$$

$$BEC = 1.004$$

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	992765.00	0.2201	A	1.7
2	☐	10.000	0.531	1011730.76	0.2256	A	1.6
3	☐	50.000	54.673	3546510.41	0.7838	A	1.0
4	☐	125.000	21.505	2036915.72	0.4419	A	12.2
5	☐	250.000	52.754	3459801.83	0.7641	A	11.4
6	☐	500.000	540.062	25950522.80	5.7884	A	0.6
7	☐	1000.000	1042.078	49684328.89	10.9644	A	1.3
8	☐			3238022.62	0.7561	A	12.1

$$y = 0.0103 * x + 0.2201$$

$$R = 0.9784$$

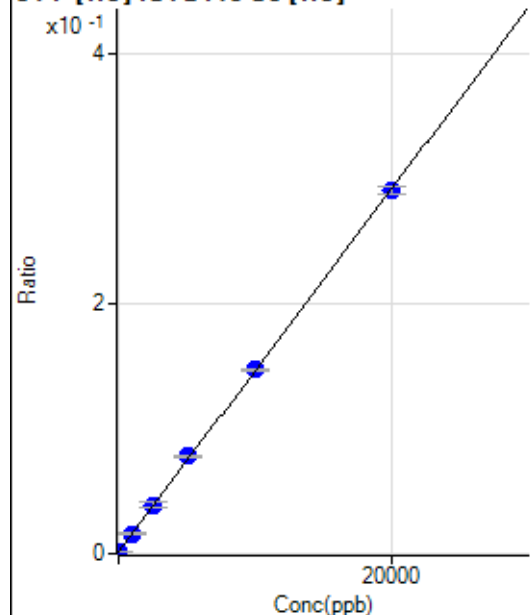
$$DL = 1.083$$

$$BEC = 21.35$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	-14.755	191.67	0.0012	P	16.8
2	☐	0.000	14.755	247.23	0.0016	P	14.9
3	☐	1000.000	1004.553	2455.84	0.0160	P	6.7
4	☐	2500.000	2568.808	6051.42	0.0388	P	10.9
5	☐	5000.000	5257.190	11532.63	0.0778	P	3.8
6	☐	10000.000	10052.844	22014.40	0.1476	P	1.5
7	☐	20000.000	19900.452	43125.91	0.2908	P	2.0
8	☐			188.89	0.0013	P	1.3

$$y = 1.4540E-005 * x + 0.0014$$

$$R = 0.9999$$

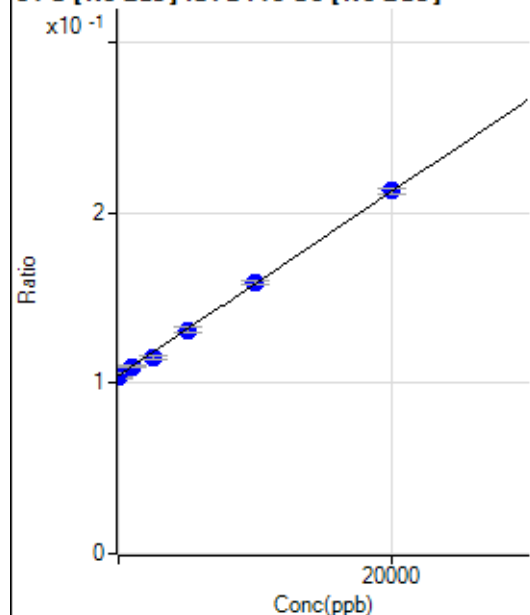
$$DL = 45.57$$

$$BEC = 96.82$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	-197.548	466758.11	0.1035	P	0.8
2	☐	0.000	197.548	473690.01	0.1056	P	0.1
3	☐	1000.000	950.026	496282.51	0.1097	P	1.2
4	☐	2500.000	1939.862	531370.78	0.1150	P	2.6
5	☐	5000.000	4958.120	594185.52	0.1313	P	2.6
6	☐	10000.000	10046.818	711619.18	0.1587	P	1.0
7	☐	20000.000	20059.577	963912.00	0.2127	P	1.3
8	☐			431235.31	0.1008	P	0.6

$$y = 5.3915\text{E-}006 * x + 0.1046$$

$$R = 0.9995$$

$$DL = 262.4$$

$$BEC = 1.939\text{E}+04$$

Weight: <None>

Min Conc: 0

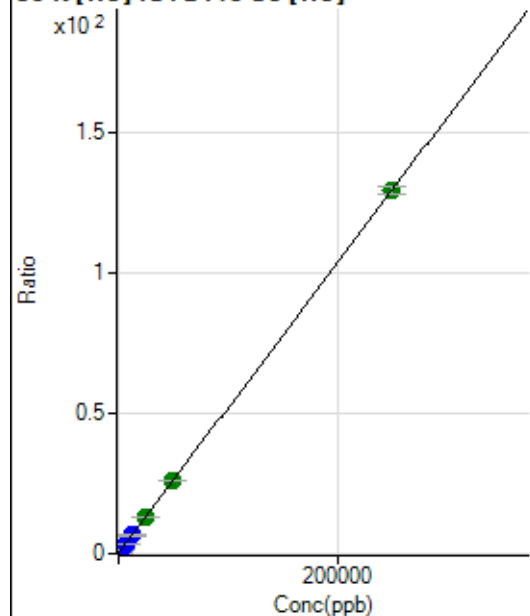
35 Cl [No Gas] No available calibration points



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			131832.56		P	0.8
2	☐			134806.21		P	0.3
3	☐			157261.02		P	2.2
4	☐			147865.87		P	1.0
5	☐			141301.70		P	1.3
6	☐			151373.70		P	1.1
7	☐			148533.96		P	1.3
8	☐			139664.16		P	1.4

35 Cl [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			808.38		P	11.9
2	☐			805.59		P	5.7
3	☐			1050.06		P	10.1
4	☐			1022.28		P	8.7
5	☐			847.27		P	9.3
6	☐			1072.29		P	8.3
7	☐			938.95		P	12.9
8	☐			922.27		P	6.0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	31810.70	0.1985	P	5.6
2	☐	500.000	526.491	71535.63	0.4697	P	1.9
3	☐	2500.000	2510.675	228772.56	1.4919	P	0.8
4	☐	6250.000	6047.156	518264.14	3.3138	P	6.1
5	☐	12500.000	12652.663	993793.11	6.7168	P	6.9
6	☐	25000.000	25107.099	1958976.47	13.1331	A	0.9
7	☐	50000.000	49877.413	3841224.74	25.8942	A	0.6
8	☐	250000.00	250011.08	18354534.96	128.9987	A	2.1

$$y = 5.1518\text{E-}004 * x + 0.1985$$

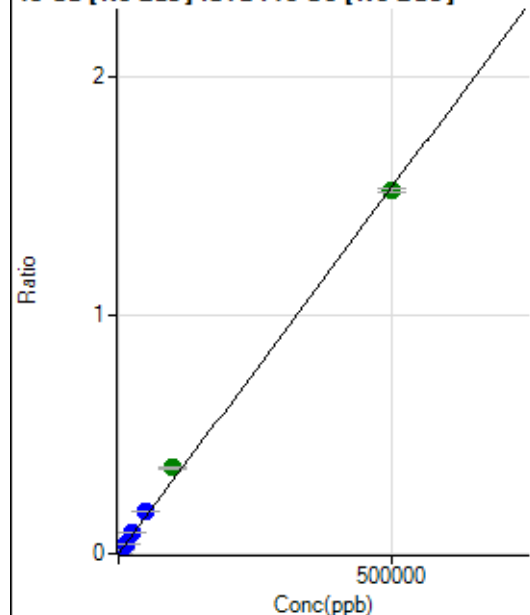
$$R = 1.0000$$

$$DL = 64.87$$

$$BEC = 385.2$$

Weight: <None>

Min Conc: 0

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

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	127.49	0.0000	P	15.3
2	☐	500.000	524.145	7330.13	0.0016	P	1.3
3	☐	5000.000	5851.054	81254.84	0.0180	P	2.0
4	☐	12500.000	14121.972	200005.01	0.0433	P	3.9
5	☐	25000.000	28658.804	397675.81	0.0879	P	1.0
6	☐	50000.000	57155.096	785374.51	0.1752	P	1.4
7	☐	100000.00	117471.54	1631403.16	0.3600	A	2.2
8	☐	500000.00	495558.15	6499607.19	1.5187	A	1.0

$$y = 3.0647\text{E-}006 * x + 2.8245\text{E-}005$$

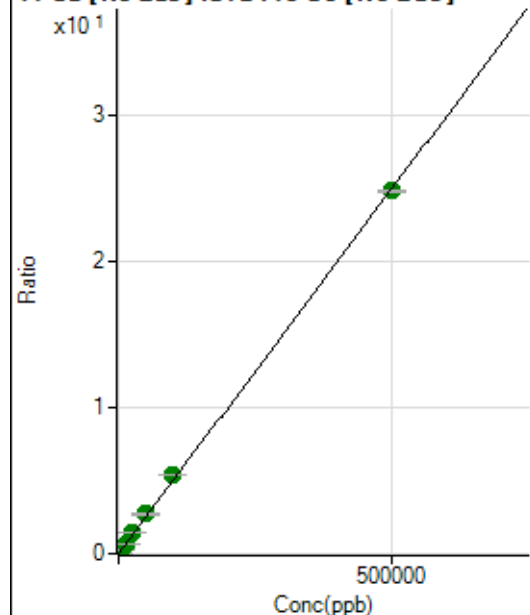
$$R = 0.9993$$

$$DL = 4.225$$

$$BEC = 9.216$$

Weight: <None>

Min Conc: 0

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

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	10555.91	0.0023	P	2.0
2	☐	500.000	527.391	128406.38	0.0286	P	0.7
3	☐	5000.000	5675.149	1290634.79	0.2853	A	2.2
4	☐	12500.000	13575.818	3135691.92	0.6792	A	5.2
5	☐	25000.000	27749.016	6273113.68	1.3858	A	0.5
6	☐	50000.000	54552.158	12202107.99	2.7221	A	2.6
7	☐	100000.00	108235.44	24465132.94	5.3985	A	0.3
8	☐	500000.00	497726.57	106204294.6	24.8168	A	0.4

$$y = 4.9856\text{E-}005 * x + 0.0023$$

$$R = 0.9998$$

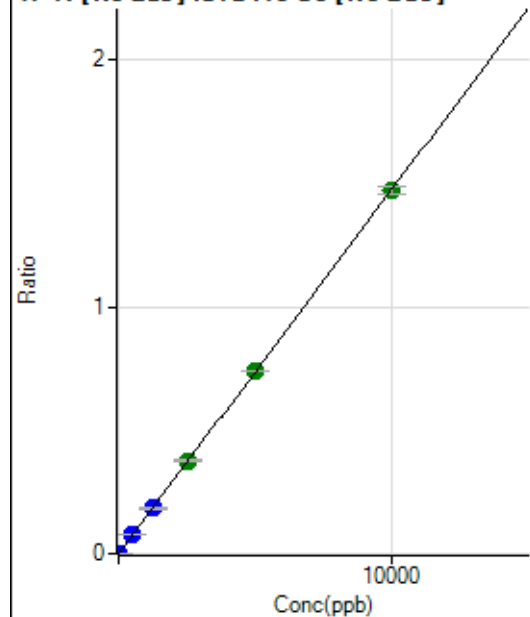
$$DL = 2.808$$

$$BEC = 46.95$$

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	152.78	0.0000	P	15.3
2	☐	5.000	4.952	3425.49	0.0008	P	6.8
3	☐	500.000	512.997	342269.60	0.0757	P	2.4
4	☐	1250.000	1257.644	856234.09	0.1854	P	4.5
5	☐	2500.000	2542.328	1696282.20	0.3748	A	1.8
6	☐	5000.000	5027.504	3322682.02	0.7411	A	0.8
7	☐	10000.000	9974.061	6663507.53	1.4703	A	2.1
8	☐			1166.75	0.0003	P	15.2

$$y = 1.4741\text{E-}004 * x + 3.3860\text{E-}005$$

$$R = 1.0000$$

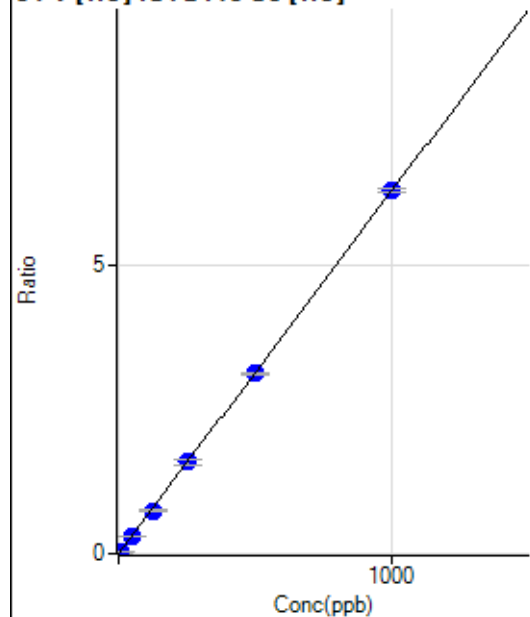
$$DL = 0.1055$$

$$BEC = 0.2297$$

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	3.33	0.0000	P	98.4
2	☐	5.000	5.001	4786.41	0.0314	P	2.0
3	☐	50.000	49.638	47806.25	0.3118	P	1.1
4	☐	125.000	119.306	117225.76	0.7493	P	5.1
5	☐	250.000	252.170	234454.73	1.5838	P	5.7
6	☐	500.000	498.418	466954.85	3.1303	P	1.0
7	☐	1000.000	1000.978	932501.76	6.2867	P	1.2
8	☐			284.45	0.0020	P	15.0

$$y = 0.0063 * x + 2.1431\text{E-}005$$

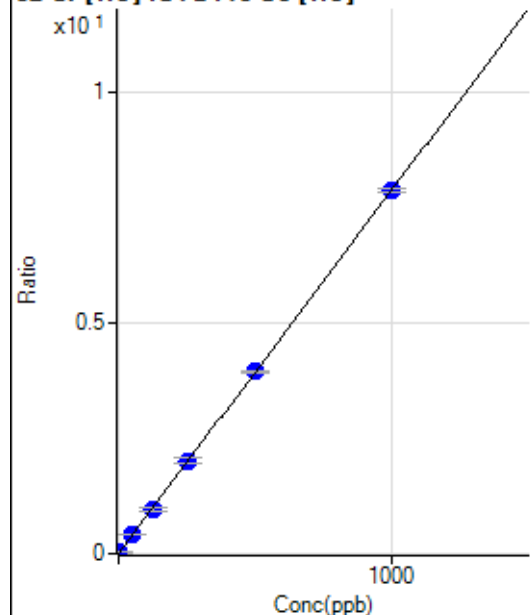
$$R = 1.0000$$

$$DL = 0.01007$$

$$BEC = 0.003412$$

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	643.35	0.0040	P	10.2
2	☐	2.000	2.290	3354.87	0.0220	P	1.5
3	☐	50.000	50.834	61898.88	0.4037	P	2.0
4	☐	125.000	120.909	149259.26	0.9547	P	6.9
5	☐	250.000	255.708	298116.24	2.0145	P	6.4
6	☐	500.000	500.307	587341.49	3.9376	P	1.1
7	☐	1000.000	998.888	1165612.15	7.8576	P	1.1
8	☐			9126.32	0.0641	P	2.5

$$y = 0.0079 * x + 0.0040$$

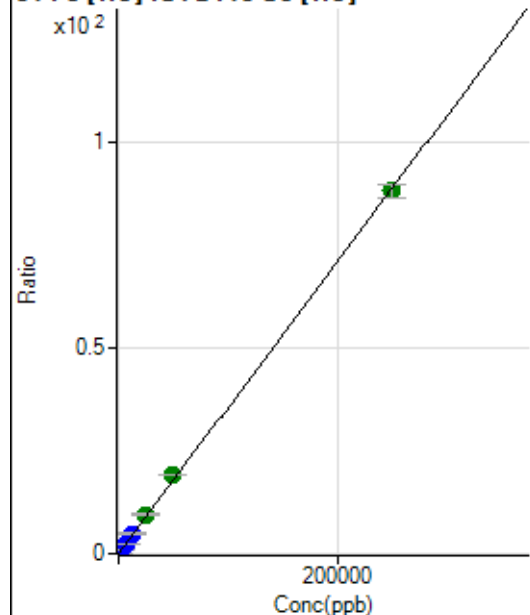
$$R = 1.0000$$

$$DL = 0.1565$$

$$BEC = 0.5117$$

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	546.32	0.0034	P	6.5
2	☐	50.000	55.136	3498.64	0.0230	P	4.8
3	☐	2500.000	2638.040	144092.17	0.9396	P	0.9
4	☐	6250.000	6378.932	354579.31	2.2672	P	6.1
5	☐	12500.000	13516.049	710316.10	4.8002	P	6.6
6	☐	25000.000	26901.210	1424699.86	9.5504	A	2.3
7	☐	50000.000	54297.927	2859131.20	19.2733	A	1.3
8	☐	250000.00	248894.88	12563957.57	88.3344	A	3.8

$$y = 3.5489E-004 * x + 0.0034$$

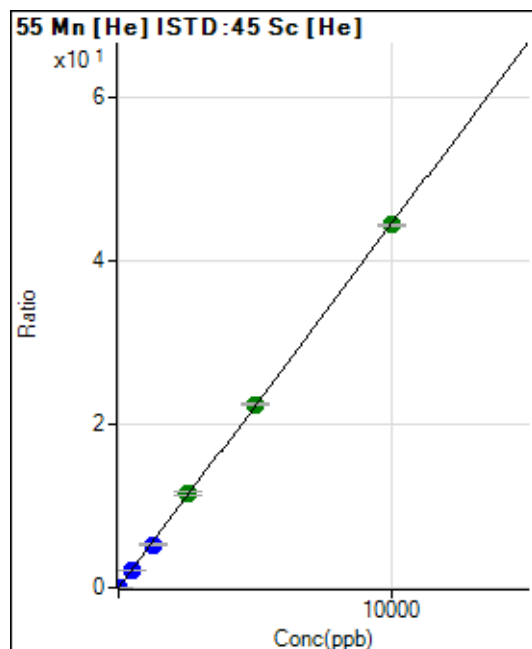
$$R = 0.9998$$

$$DL = 1.858$$

$$BEC = 9.59$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	74.44	0.0005	P	21.8
2	☐	1.000	1.020	763.36	0.0050	P	4.8
3	☐	500.000	491.097	335662.73	2.1892	P	2.0
4	☐	1250.000	1185.466	826497.30	5.2838	P	5.5
5	☐	2500.000	2589.766	1708721.15	11.5423	A	5.6
6	☐	5000.000	5030.708	3344565.68	22.4209	A	0.9
7	☐	10000.000	9970.717	6591905.80	44.4372	A	0.5
8	☐			3623.83	0.0255	P	1.3

$$y = 0.0045 * x + 4.6639E-004$$

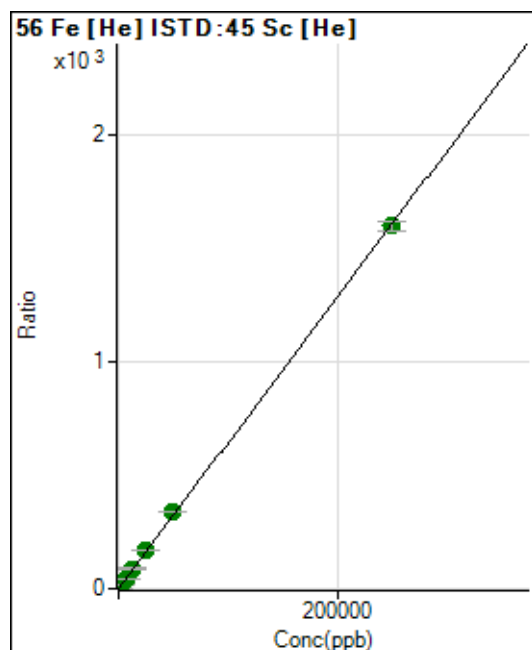
$$R = 0.9999$$

$$DL = 0.0686$$

$$BEC = 0.1046$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	3054.09	0.0191	P	6.5
2	☐	50.000	54.554	56128.79	0.3685	P	0.3
3	☐	2500.000	2687.504	2642739.03	17.2346	A	0.9
4	☐	6250.000	6424.690	6436675.78	41.1741	A	7.2
5	☐	12500.000	13700.542	12987639.99	87.7815	A	6.9
6	☐	25000.000	26623.295	25442263.07	170.5616	A	0.3
7	☐	50000.000	52857.523	50230699.27	338.6119	A	1.4
8	☐	250000.00	249199.89	227107232.8	1,596.335	A	2.7

$$y = 0.0064 * x + 0.0191$$

$$R = 0.9999$$

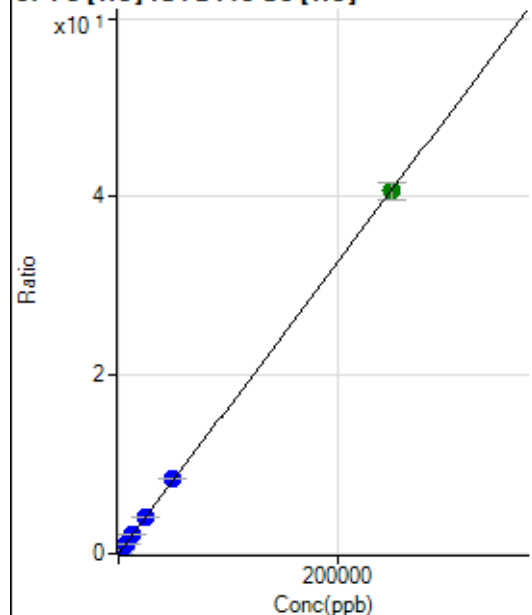
$$DL = 0.584$$

$$BEC = 2.975$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	142.60	0.0009	P	7.5
2	☐	50.000	58.639	1589.01	0.0104	P	1.1
3	☐	2500.000	2575.525	64441.38	0.4203	P	0.9
4	☐	6250.000	6203.448	158072.29	1.0110	P	6.8
5	☐	12500.000	13329.203	321336.29	2.1713	P	6.3
6	☐	25000.000	25504.371	619603.02	4.1537	P	1.2
7	☐	50000.000	51308.341	1239395.32	8.3554	P	0.5
8	☐	250000.00	249646.84	5780835.20	40.6506	A	4.7

$$y = 1.6283\text{E-}004 * x + 8.8428\text{E-}004$$

$$R = 1.0000$$

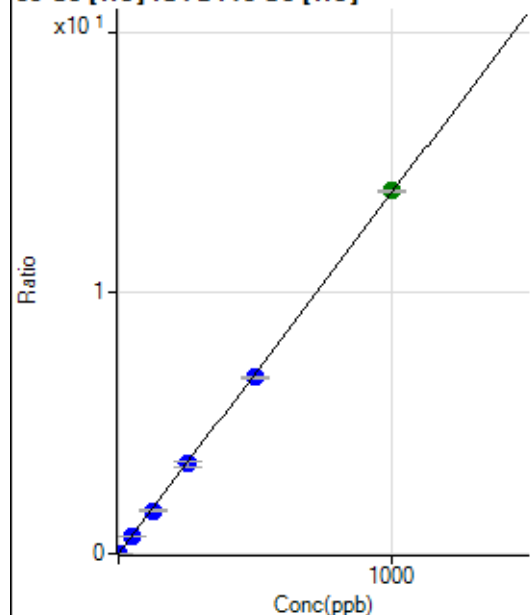
$$DL = 1.22$$

$$BEC = 5.431$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	44.44	0.0003	P	15.7
2	☐	1.000	1.026	2204.64	0.0145	P	2.4
3	☐	50.000	49.653	105363.16	0.6871	P	0.8
4	☐	125.000	118.782	257003.61	1.6434	P	6.1
5	☐	250.000	249.383	510538.00	3.4499	P	6.4
6	☐	500.000	489.013	1009044.83	6.7646	P	1.2
7	☐	1000.000	1006.442	2065163.65	13.9221	A	0.2
8	☐			1716.78	0.0121	P	2.7

$$y = 0.0138 * x + 2.7820\text{E-}004$$

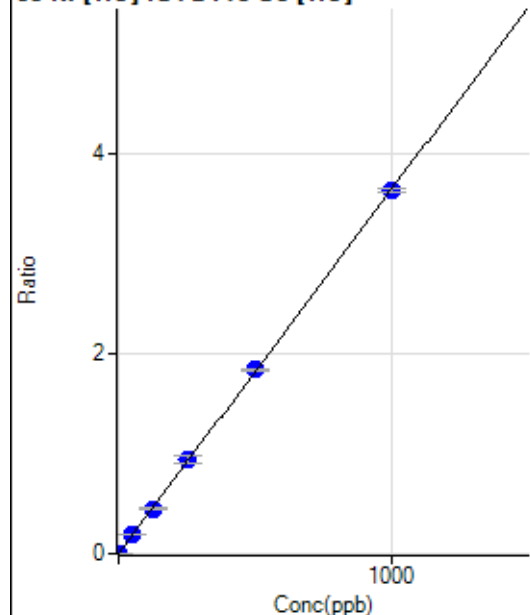
$$R = 0.9999$$

$$DL = 0.00945$$

$$BEC = 0.02011$$

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	144.45	0.0009	P	21.4
2	☐	1.000	1.115	755.58	0.0050	P	10.5
3	☐	50.000	51.241	28700.13	0.1872	P	0.4
4	☐	125.000	123.308	70213.29	0.4491	P	7.1
5	☐	250.000	258.075	138872.35	0.9390	P	7.9
6	☐	500.000	504.201	273508.80	1.8336	P	1.0
7	☐	1000.000	996.030	537167.73	3.6214	P	1.1
8	☐			1695.67	0.0119	P	5.9

$$y = 0.0036 * x + 9.0614E-004$$

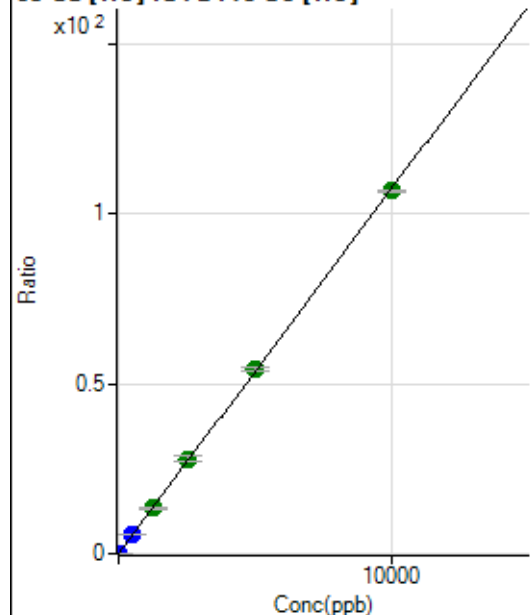
$$R = 0.9999$$

$$DL = 0.1602$$

$$BEC = 0.2493$$

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	624.46	0.0039	P	11.2
2	☐	2.000	2.115	4058.39	0.0266	P	0.2
3	☐	500.000	505.633	834047.29	5.4394	P	1.3
4	☐	1250.000	1251.992	2106161.83	13.4626	A	5.5
5	☐	2500.000	2607.301	4149413.97	28.0319	A	5.8
6	☐	5000.000	5059.316	8113737.52	54.3907	A	1.1
7	☐	10000.000	9942.986	15855353.93	106.8893	A	0.8
8	☐			3124.81	0.0220	P	3.4

$$y = 0.0107 * x + 0.0039$$

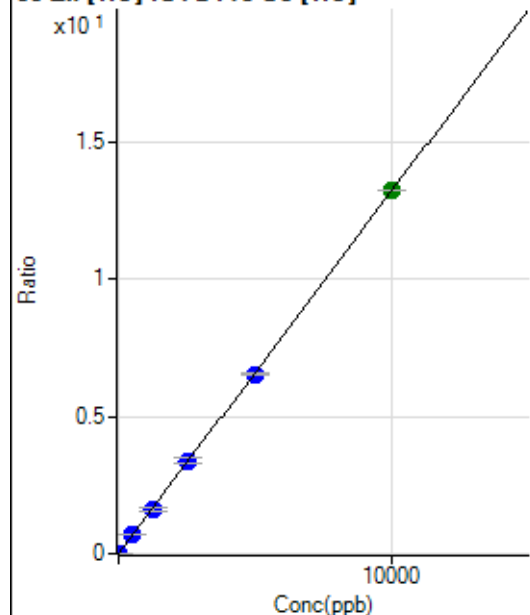
$$R = 0.9999$$

$$DL = 0.1224$$

$$BEC = 0.3634$$

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	72.22	0.0005	P	7.0
2	☐	2.000	2.454	562.24	0.0037	P	2.3
3	☐	500.000	509.725	103295.58	0.6736	P	1.1
4	☐	1250.000	1225.116	253091.21	1.6185	P	6.3
5	☐	2500.000	2568.434	501999.61	3.3926	P	6.7
6	☐	5000.000	4951.977	975621.56	6.5406	P	0.6
7	☐	10000.000	10009.527	1961081.67	13.2202	A	0.1
8	☐			9946.92	0.0699	P	3.9

$$y = 0.0013 * x + 4.5014E-004$$

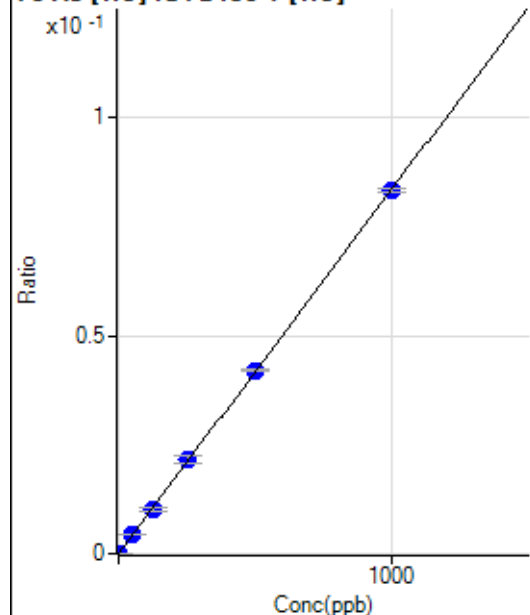
$$R = 1.0000$$

$$DL = 0.07164$$

$$BEC = 0.3408$$

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	1.33	0.0000	P	87.1
2	☐	1.000	1.117	126.68	0.0001	P	8.1
3	☐	50.000	50.879	5696.07	0.0043	P	1.0
4	☐	125.000	121.146	14132.81	0.0101	P	8.9
5	☐	250.000	259.107	28234.24	0.0217	P	6.5
6	☐	500.000	503.162	55314.75	0.0421	P	1.1
7	☐	1000.000	996.580	109667.07	0.0833	P	1.0
8	☐			21.33	0.0000	P	18.2

$$y = 8.3581E-005 * x + 9.3156E-007$$

$$R = 0.9999$$

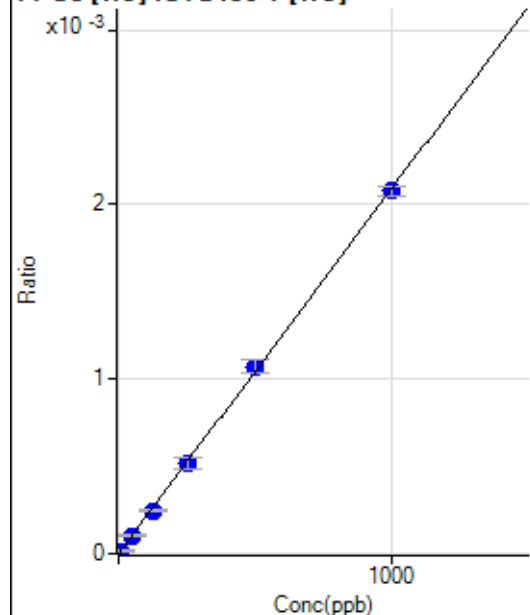
$$DL = 0.02911$$

$$BEC = 0.01115$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	0.00	0.0000	P	
2	☐	5.000	7.157	20.00	0.0000	P	51.2
3	☐	50.000	49.629	138.89	0.0001	P	18.1
4	☐	125.000	117.394	344.45	0.0002	P	4.2
5	☐	250.000	247.867	674.47	0.0005	P	12.6
6	☐	500.000	513.716	1412.31	0.0011	P	7.0
7	☐	1000.000	994.634	2736.96	0.0021	P	2.7
8	☐			3.33	0.0000	P	99.2

$$y = 2.0901\text{E-}006 * x + 0.0000\text{E+}000$$

$$R = 0.9998$$

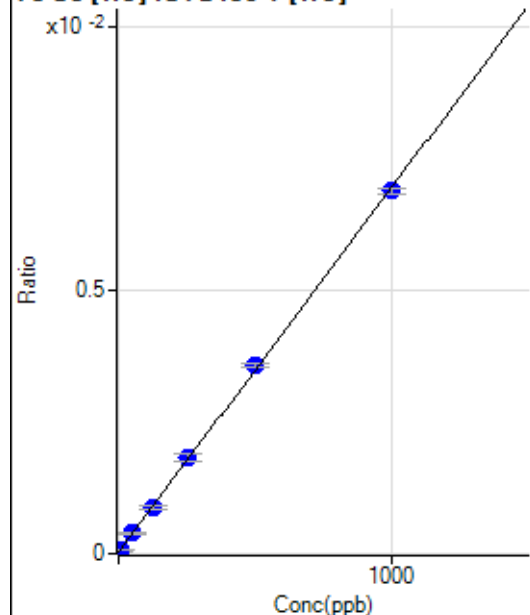
$$DL = 0$$

$$BEC = 0$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	41.34	0.0000	P	8.3
2	☐	5.000	5.598	91.01	0.0001	P	6.6
3	☐	50.000	51.903	520.06	0.0004	P	5.2
4	☐	125.000	124.280	1242.18	0.0009	P	8.7
5	☐	250.000	259.071	2374.44	0.0018	P	8.9
6	☐	500.000	512.731	4708.60	0.0036	P	1.9
7	☐	1000.000	991.358	9078.51	0.0069	P	1.4
8	☐			50.34	0.0000	P	22.1

$$y = 6.9264\text{E-}006 * x + 2.8864\text{E-}005$$

$$R = 0.9998$$

$$DL = 1.037$$

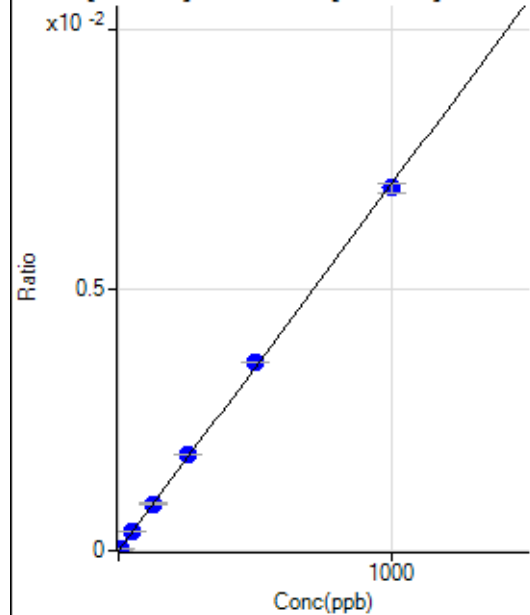
$$BEC = 4.167$$

Weight: <None>

Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			39718.31		P	1.0
2	☐			41108.79		P	2.1
3	☐			39495.93		P	1.8
4	☐			39061.19		P	1.5
5	☐			39821.51		P	2.5
6	☐			38735.60		P	1.1
7	☐			38826.90		P	0.5
8	☐			37771.29		P	2.2

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	-3.33	0.0000	P	-561.
2	☐	5.000	5.435	450.38	0.0000	P	2.0
3	☐	50.000	52.756	4343.98	0.0004	P	0.2
4	☐	125.000	127.058	10784.66	0.0009	P	2.4
5	☐	250.000	261.741	21319.70	0.0018	P	1.3
6	☐	500.000	514.279	42273.69	0.0036	P	0.8
7	☐	1000.000	989.528	81821.60	0.0070	P	2.4
8	☐			80.00	0.0000	P	18.3

$$y = 7.0240E-006 * x - 2.9348E-007$$

$$R = 0.9998$$

$$DL = 0.7032$$

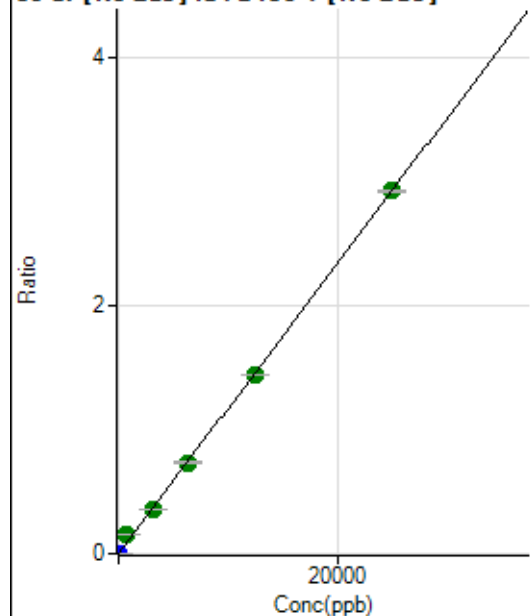
$$BEC = -0.04178$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			243.72		P	7.1
2	☐			229.97		P	4.8
3	☐			255.39		P	1.2
4	☐			243.72		P	8.1
5	☐			247.47		P	4.8
6	☐			235.39		P	10.4
7	☐			252.89		P	2.2
8	☐			234.97		P	3.0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	394.46	0.0000	P	8.6
2	☐	1.000	1.005	1800.17	0.0002	P	4.9
3	☐	625.000	1275.301	1748714.17	0.1491	A	0.4
4	☐	3125.000	3067.905	4334191.41	0.3585	A	2.0
5	☐	6250.000	6293.642	8530233.87	0.7355	A	0.5
6	☐	12500.000	12378.250	16929482.84	1.4465	A	0.3
7	☐	25000.000	25040.844	34460078.55	2.9261	A	0.2
8	☐			8961.43	0.0008	P	5.1

$$y = 1.1685E-004 * x + 3.3986E-005$$

$$R = 0.9996$$

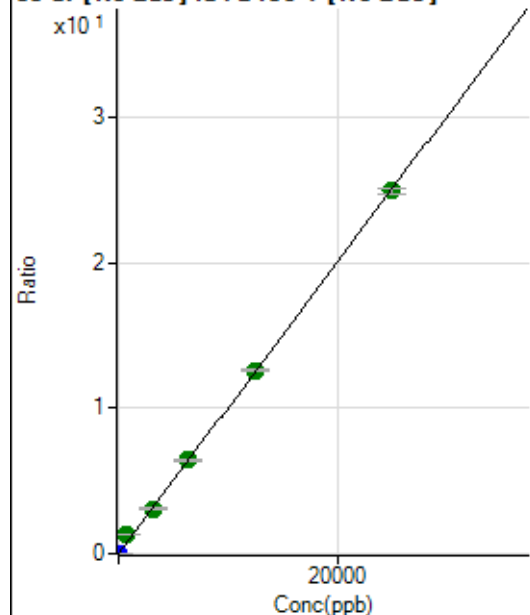
$$DL = 0.07484$$

$$BEC = 0.2908$$

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	191.67	0.0000	P	27.4
2	☐	1.000	1.001	12097.23	0.0010	P	3.9
3	☐	625.000	1270.229	14902951.55	1.2703	A	0.7
4	☐	3125.000	3098.347	37461520.98	3.0986	A	1.8
5	☐	6250.000	6409.527	74341044.72	6.4101	A	1.4
6	☐	12500.000	12560.581	147012581.0	12.5616	A	1.2
7	☐	25000.000	24917.029	293400484.3	24.9190	A	1.7
8	☐			75040.81	0.0068	P	4.4

$$y = 0.0010 * x + 1.6508E-005$$

$$R = 0.9997$$

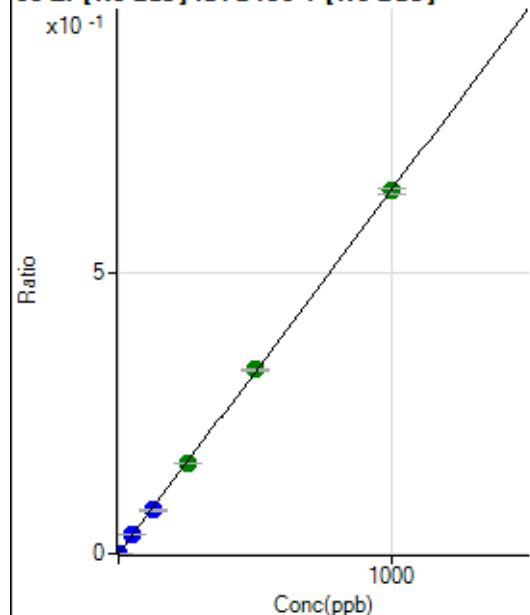
$$DL = 0.01357$$

$$BEC = 0.01651$$

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	377.79	0.0000	P	6.3
2	☐	1.000	0.950	7705.11	0.0006	P	4.7
3	☐	50.000	50.403	383652.83	0.0327	P	0.6
4	☐	125.000	119.416	936093.02	0.0774	P	2.2
5	☐	250.000	248.507	1868675.28	0.1611	A	0.9
6	☐	500.000	505.855	3837603.43	0.3279	A	1.5
7	☐	1000.000	998.124	7617605.90	0.6470	A	1.6
8	☐			1614.03	0.0001	P	2.6

$$y = 6.4816E-004 * x + 3.2528E-005$$

$$R = 1.0000$$

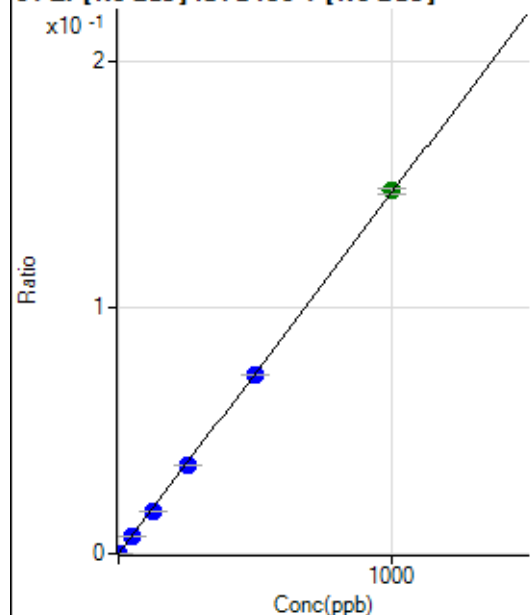
$$DL = 0.0095$$

$$BEC = 0.05019$$

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	75.00	0.0000	P	58.4
2	☐	1.000	0.974	1772.39	0.0001	P	2.8
3	☐	50.000	49.828	85702.52	0.0073	P	2.3
4	☐	125.000	118.320	209609.80	0.0173	P	2.1
5	☐	250.000	243.145	413203.65	0.0356	P	0.1
6	☐	500.000	494.181	847376.53	0.0724	P	0.2
7	☐	1000.000	1005.467	1734350.93	0.1473	A	1.5
8	☐			308.35	0.0000	P	18.4

$$y = 1.4649\text{E-}004 * x + 6.4481\text{E-}006$$

$$R = 0.9999$$

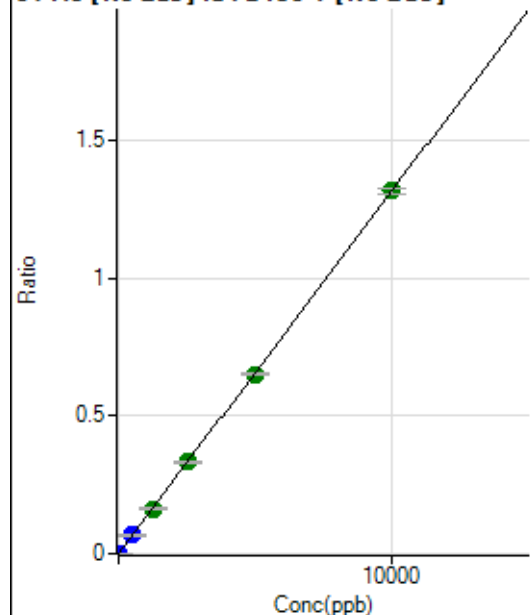
$$DL = 0.07714$$

$$BEC = 0.04402$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	100.01	0.0000	P	15.4
2	☐	5.000	5.717	9044.84	0.0008	P	3.4
3	☐	500.000	504.608	779030.61	0.0664	P	1.6
4	☐	1250.000	1224.511	1947568.27	0.1611	A	4.0
5	☐	2500.000	2525.571	3854744.96	0.3323	A	0.4
6	☐	5000.000	4960.806	7640378.64	0.6528	A	0.8
7	☐	10000.000	10016.160	15519223.96	1.3180	A	1.3
8	☐			2905.97	0.0003	P	6.8

$$y = 1.3159\text{E-}004 * x + 8.6206\text{E-}006$$

$$R = 1.0000$$

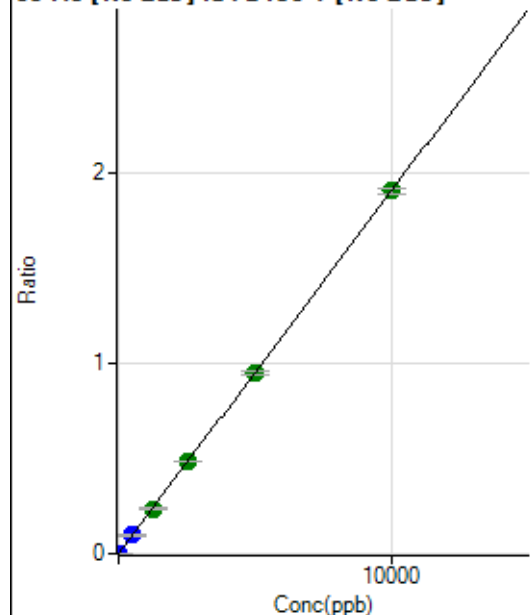
$$DL = 0.03035$$

$$BEC = 0.06551$$

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	25.00	0.0000	P	67.4
2	☐	5.000	4.732	10762.81	0.0009	P	4.3
3	☐	500.000	505.102	1131134.00	0.0964	P	1.9
4	☐	1250.000	1235.775	2851517.88	0.2359	A	3.6
5	☐	2500.000	2545.089	5635296.05	0.4859	A	0.6
6	☐	5000.000	4981.568	11129855.11	0.9510	A	1.4
7	☐	10000.000	9999.467	22477139.05	1.9089	A	1.4
8	☐			4320.24	0.0004	P	5.0

$$y = 1.9090\text{E-}004 * x + 2.1640\text{E-}006$$

$$R = 1.0000$$

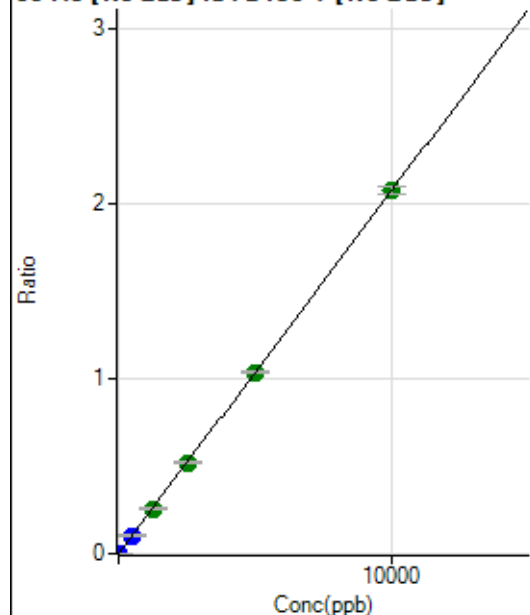
$$DL = 0.02293$$

$$BEC = 0.01134$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	125.00	0.0000	P	17.8
2	☐	5.000	4.946	12339.12	0.0010	P	3.2
3	☐	500.000	502.501	1224302.58	0.1044	P	2.3
4	☐	1250.000	1231.121	3090796.92	0.2557	A	2.6
5	☐	2500.000	2512.784	6053239.11	0.5219	A	1.6
6	☐	5000.000	5002.343	12158945.58	1.0389	A	0.8
7	☐	10000.000	9997.867	24447871.38	2.0764	A	2.1
8	☐			7199.30	0.0007	P	8.6

$$y = 2.0768\text{E-}004 * x + 1.0764\text{E-}005$$

$$R = 1.0000$$

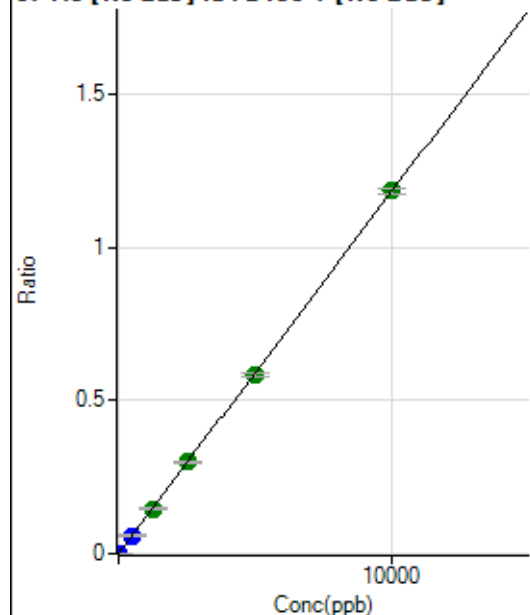
$$DL = 0.02766$$

$$BEC = 0.05183$$

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	25.00	0.0000	P	57.9
2	☐	5.000	4.789	6760.16	0.0006	P	2.3
3	☐	500.000	501.736	696275.18	0.0594	P	2.1
4	☐	1250.000	1240.310	1773384.50	0.1467	A	3.8
5	☐	2500.000	2524.690	3463888.84	0.2987	A	1.3
6	☐	5000.000	4938.468	6837019.68	0.5842	A	1.4
7	☐	10000.000	10025.718	13965199.62	1.1860	A	1.5
8	☐			2503.07	0.0002	P	14.5

$$y = 1.1829E-004 * x + 2.1545E-006$$

$$R = 1.0000$$

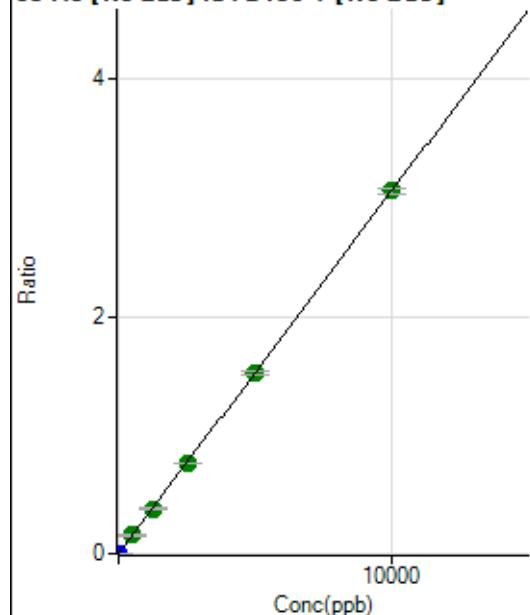
$$DL = 0.03166$$

$$BEC = 0.01821$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	22.22	0.0000	P	43.5
2	☐	5.000	4.694	17091.55	0.0014	P	3.6
3	☐	500.000	503.971	1808334.44	0.1542	A	1.9
4	☐	1250.000	1233.734	4561814.34	0.3774	A	2.6
5	☐	2500.000	2488.023	8827060.27	0.7610	A	0.6
6	☐	5000.000	4994.966	17880974.53	1.5279	A	1.5
7	☐	10000.000	10007.346	36040926.15	3.0611	A	1.9
8	☐			6460.05	0.0006	P	18.5

$$y = 3.0588E-004 * x + 1.9146E-006$$

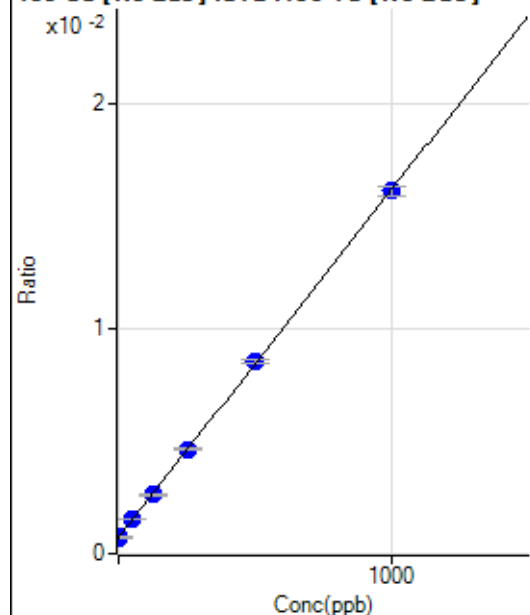
$$R = 1.0000$$

$$DL = 0.008168$$

$$BEC = 0.006259$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	5834.73	0.0007	P	2.9
2	☐	1.000	1.499	6009.80	0.0007	P	7.6
3	☐	50.000	52.778	12280.84	0.0015	P	2.2
4	☐	125.000	122.788	21848.47	0.0026	P	1.7
5	☐	250.000	253.916	37295.74	0.0046	P	1.2
6	☐	500.000	505.415	69085.65	0.0085	P	1.9
7	☐	1000.000	996.450	131922.53	0.0161	P	2.4
8	☐			5856.98	0.0007	P	3.0

$$y = 1.5437\text{E-}005 * x + 7.2386\text{E-}004$$

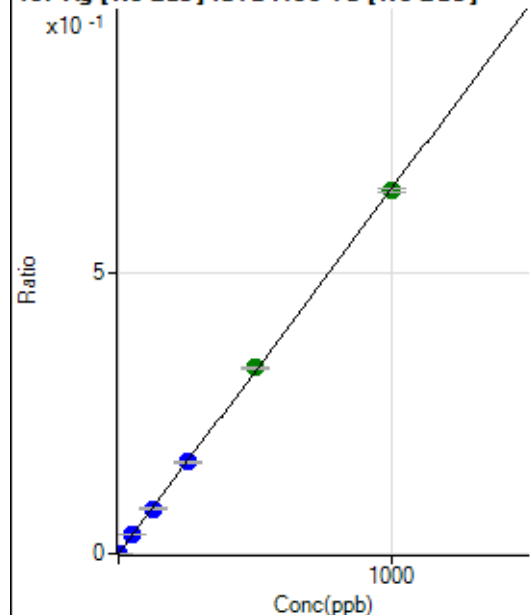
$$R = 1.0000$$

$$DL = 4.085$$

$$BEC = 46.89$$

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	83.34	0.0000	P	38.0
2	☐	1.000	1.076	5712.44	0.0007	P	3.6
3	☐	50.000	51.683	268483.80	0.0336	P	0.8
4	☐	125.000	123.099	668113.23	0.0801	P	2.6
5	☐	250.000	251.399	1313705.86	0.1636	P	1.2
6	☐	500.000	510.274	2689856.81	0.3320	A	1.4
7	☐	1000.000	994.666	5301205.06	0.6471	A	1.0
8	☐			1950.19	0.0002	P	7.0

$$y = 6.5059\text{E-}004 * x + 1.0278\text{E-}005$$

$$R = 0.9999$$

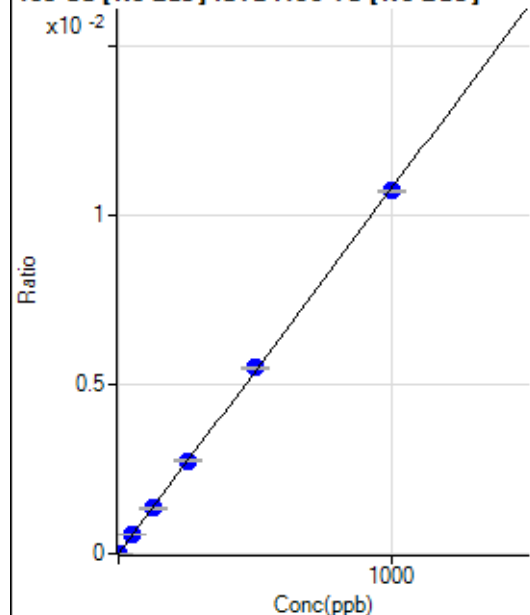
$$DL = 0.018$$

$$BEC = 0.0158$$

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	9.72	0.0000	P	67.8
2	☐	1.000	1.119	106.94	0.0000	P	20.2
3	☐	50.000	53.692	4634.17	0.0006	P	4.4
4	☐	125.000	124.756	11239.41	0.0013	P	2.3
5	☐	250.000	254.344	22051.10	0.0027	P	2.0
6	☐	500.000	509.991	44598.39	0.0055	P	0.9
7	☐	1000.000	993.765	87858.39	0.0107	P	0.6
8	☐			75.00	0.0000	P	20.1

$$y = 1.0791\text{E-}005 * x + 1.2202\text{E-}006$$

$$R = 0.9999$$

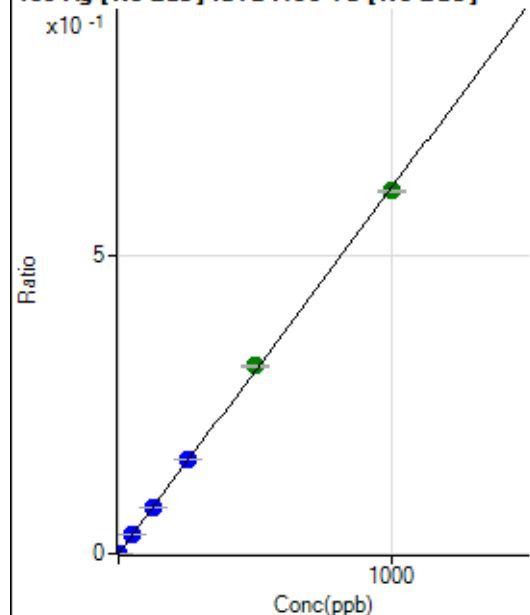
$$DL = 0.2301$$

$$BEC = 0.1131$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	22.22	0.0000	P	42.5
2	☐	1.000	1.057	5240.02	0.0007	P	1.4
3	☐	50.000	53.207	260570.62	0.0326	P	0.9
4	☐	125.000	124.519	637219.06	0.0764	P	1.5
5	☐	250.000	256.063	1261656.92	0.1571	P	0.7
6	☐	500.000	513.007	2549998.04	0.3147	A	0.6
7	☐	1000.000	991.881	4985027.80	0.6085	A	0.3
8	☐			1730.71	0.0002	P	5.6

$$y = 6.1348\text{E-}004 * x + 2.7529\text{E-}006$$

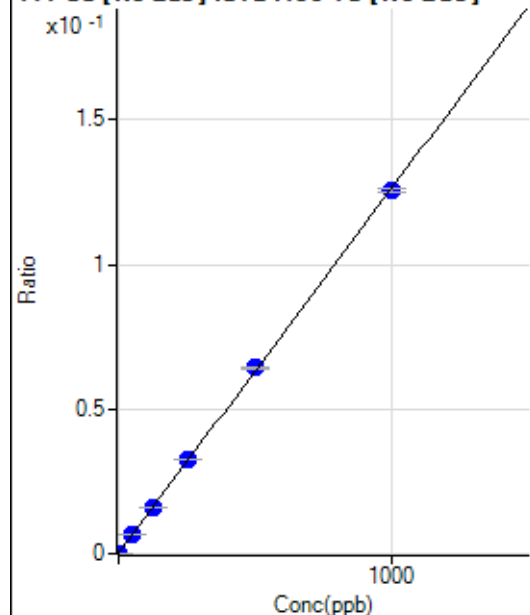
$$R = 0.9999$$

$$DL = 0.005725$$

$$BEC = 0.004487$$

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	1168.49	0.0001	P	2.6
2	☐	1.000	1.106	2288.10	0.0003	P	2.6
3	☐	50.000	52.530	54012.29	0.0068	P	1.4
4	☐	125.000	125.740	133420.62	0.0160	P	1.5
5	☐	250.000	258.331	262704.33	0.0327	P	0.6
6	☐	500.000	508.220	520246.59	0.0642	P	0.3
7	☐	1000.000	993.588	1027185.41	0.1254	P	1.0
8	☐			1461.13	0.0002	P	3.8

$$y = 1.2606\text{E-}004 * x + 1.4494\text{E-}004$$

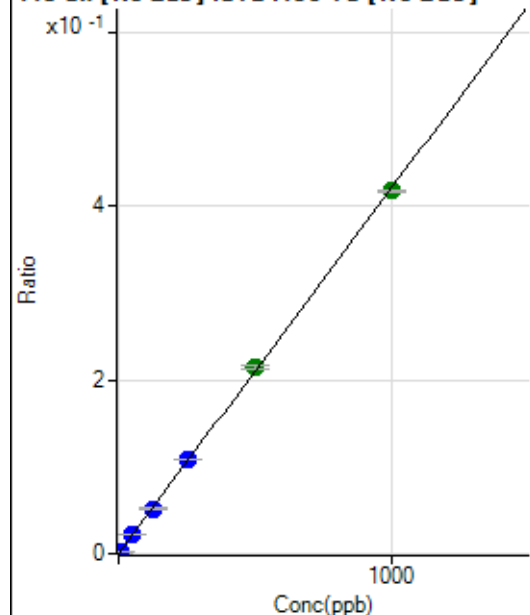
$$R = 0.9999$$

$$DL = 0.08986$$

$$BEC = 1.15$$

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	1211.20	0.0002	P	7.0
2	☐	5.000	5.087	18426.68	0.0023	P	1.8
3	☐	50.000	50.987	172412.91	0.0216	P	0.9
4	☐	125.000	123.026	432936.95	0.0519	P	2.6
5	☐	250.000	258.264	873806.00	0.1088	P	1.2
6	☐	500.000	511.096	1743252.60	0.2152	A	1.8
7	☐	1000.000	992.583	3421898.51	0.4177	A	0.8
8	☐			1947.41	0.0002	P	4.3

$$y = 4.2069\text{E-}004 * x + 1.5021\text{E-}004$$

$$R = 0.9999$$

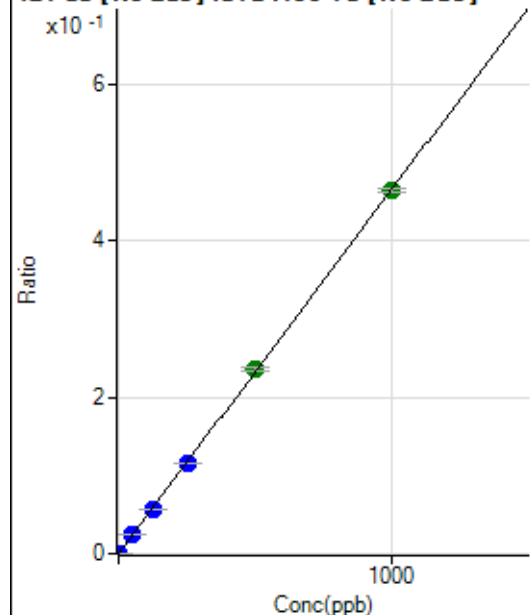
$$DL = 0.07457$$

$$BEC = 0.3571$$

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	19.44	0.0000	P	64.8
2	☐	2.000	1.955	7335.51	0.0009	P	4.0
3	☐	50.000	51.114	189795.45	0.0238	P	0.7
4	☐	125.000	121.381	470940.84	0.0565	P	2.3
5	☐	250.000	249.553	932292.17	0.1161	P	0.5
6	☐	500.000	506.897	1910295.14	0.2358	A	1.9
7	☐	1000.000	997.060	3799020.01	0.4638	A	1.1
8	☐			1777.95	0.0002	P	2.2

$$y = 4.6513\text{E-}004 * x + 2.4148\text{E-}006$$

$$R = 1.0000$$

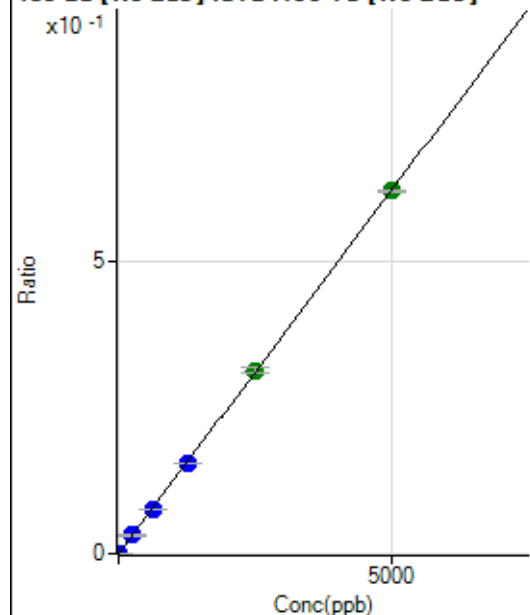
$$DL = 0.01009$$

$$BEC = 0.005192$$

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	8.33	0.0000	P	100.4
2	☐	10.000	9.958	9995.62	0.0012	P	2.9
3	☐	250.000	252.943	251721.78	0.0315	P	1.3
4	☐	625.000	606.512	630711.13	0.0756	P	1.9
5	☐	1250.000	1244.215	1245782.73	0.1551	P	0.8
6	☐	2500.000	2522.051	2547343.01	0.3144	A	3.1
7	☐	5000.000	4992.585	5098911.49	0.6224	A	0.6
8	☐			2925.40	0.0004	P	8.9

$$y = 1.2467\text{E-}004 * x + 1.0218\text{E-}006$$

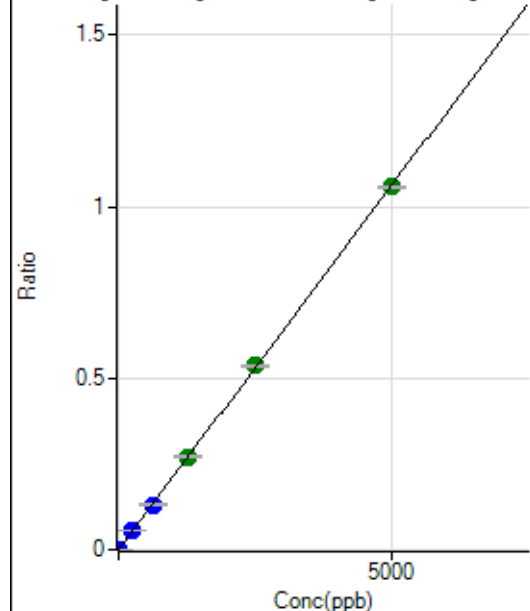
$$R = 1.0000$$

$$DL = 0.02469$$

$$BEC = 0.008197$$

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	13.89	0.0000	P	71.9
2	☐	10.000	10.247	17517.31	0.0022	P	4.7
3	☐	250.000	255.711	433424.24	0.0543	P	1.1
4	☐	625.000	615.678	1090472.49	0.1307	P	2.2
5	☐	1250.000	1274.887	2174335.66	0.2707	A	1.1
6	☐	2500.000	2525.498	4344985.08	0.5363	A	0.6
7	☐	5000.000	4981.908	8666062.35	1.0579	A	0.5
8	☐			5020.52	0.0006	P	5.0

$$y = 2.1234\text{E-}004 * x + 1.7432\text{E-}006$$

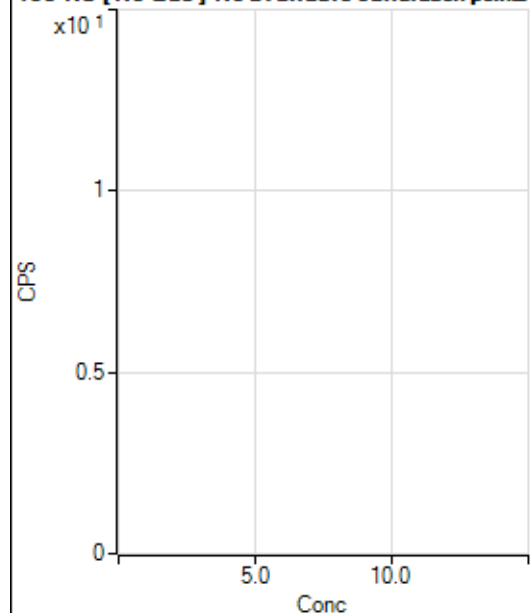
$$R = 1.0000$$

$$DL = 0.01771$$

$$BEC = 0.00821$$

Weight: <None>

Min Conc: 0

150 Nd [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2.22		P	173.2
2	☐			20.00		P	57.7
3	☐			60.00		P	67.6
4	☐			104.45		P	35.2
5	☐			253.34		P	27.3
6	☐			464.46		P	7.1
7	☐			1026.73		P	19.9
8	☐			35.56		P	71.0

150 Nd [He] No available calibration points

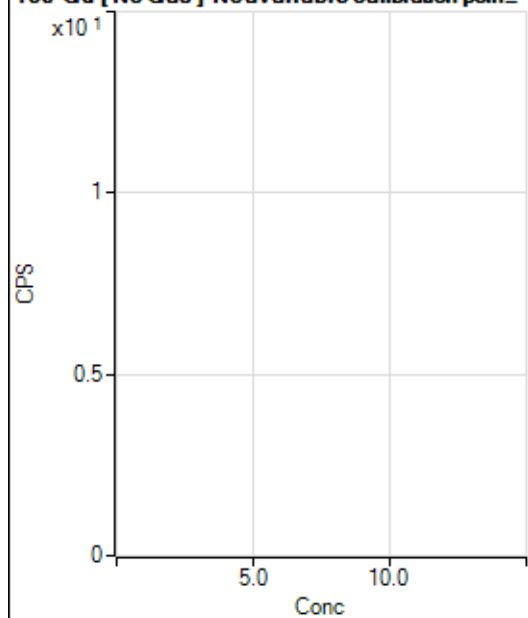
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			3.33		P	0.0
2	☐			2.22		P	173.2
3	☐			6.67		P	50.0
4	☐			5.55		P	69.3
5	☐			13.33		P	NaN
6	☐			37.78		P	22.2
7	☐			67.78		P	34.9
8	☐			11.11		P	62.5

156 Dy [No Gas] No available calibration points

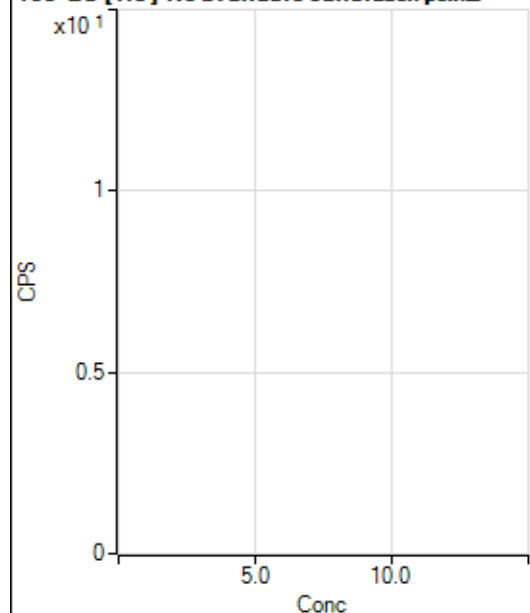
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			5.55		P	86.6
2	☐			11.11		P	86.6
3	☐			25.00		P	66.7
4	☐			44.45		P	54.1
5	☐			69.45		P	27.7
6	☐			183.34		P	25.3
7	☐			366.68		P	17.8
8	☐			808.38		P	5.2

156 Dy [He] No available calibration points

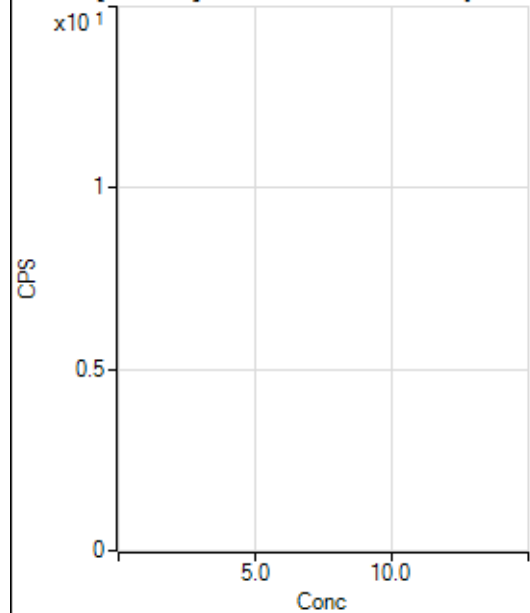
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			5.56		P	34.7
2	☐			4.44		P	114.6
3	☐			12.22		P	15.7
4	☐			23.33		P	37.8
5	☐			36.66		P	15.7
6	☐			76.67		P	8.7
7	☐			146.67		P	9.1
8	☐			365.56		P	9.1

160 Gd [No Gas] Noavailable calibration poin_

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			58.33		P	51.5
2	☐			50.00		P	16.7
3	☐			100.00		P	8.3
4	☐			83.33		P	34.6
5	☐			116.67		P	24.7
6	☐			150.00		P	49.4
7	☐			338.90		P	24.1
8	☐			905.62		P	7.0

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			124.45		P	13.2
2	☐			95.56		P	26.6
3	☐			108.89		P	24.7
4	☐			133.34		P	5.0
5	☐			144.45		P	11.6
6	☐			176.67		P	5.0
7	☐			220.00		P	19.9
8	☐			568.91		P	10.6

164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			61.11		P	31.5
2	☐			47.22		P	27.0
3	☐			47.23		P	56.7
4	☐			94.45		P	31.0
5	☐			66.67		P	43.3
6	☐			116.67		P	18.9
7	☐			119.45		P	17.6
8	☐			80.56		P	21.5

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			20.00		P	50.0
2	☐			24.45		P	43.8
3	☐			24.45		P	15.8
4	☐			30.00		P	29.4
5	☐			32.22		P	23.9
6	☐			34.45		P	39.1
7	☐			48.89		P	21.9
8	☐			51.11		P	43.4

172 Yb [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			50.00		P	16.7
2	☐			55.56		P	31.2
3	☐			41.67		P	34.6
4	☐			61.11		P	43.8
5	☐			58.33		P	28.6
6	☐			111.11		P	48.8
7	☐			175.01		P	20.8
8	☐			361.13		P	4.8

172 Yb [He] No available calibration points

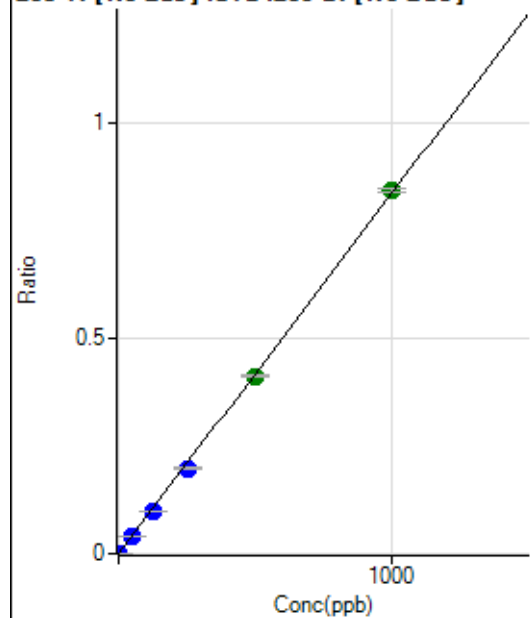
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			35.19		P	18.2
2	☐			18.52		P	45.8
3	☐			24.07		P	35.2
4	☐			22.22		P	25.0
5	☐			29.63		P	28.6
6	☐			72.22		P	7.7
7	☐			81.48		P	41.7
8	☐			224.08		P	10.3

176 Yb [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1483.46		P	4.4
2	☐			1752.94		P	7.7
3	☐			2653.12		P	1.6
4	☐			3592.26		P	3.0
5	☐			5840.32		P	4.8
6	☐			9895.59		P	2.9
7	☐			19342.48		P	2.0
8	☐			1877.96		P	2.8

176 Yb [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			8547.38		P	7.6
2	☐			7924.75		P	2.2
3	☐			8061.85		P	1.2
4	☐			8917.96		P	5.2
5	☐			9588.83		P	3.5
6	☐			11816.58		P	1.6
7	☐			16453.07		P	2.2
8	☐			8221.21		P	0.9

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	25.00	0.0000	P	34.1
2	☐	1.000	0.946	4072.98	0.0008	P	5.4
3	☐	50.000	47.013	203358.02	0.0393	P	2.0
4	☐	125.000	117.370	509142.06	0.0982	P	1.9
5	☐	250.000	237.277	1016798.24	0.1984	P	1.7
6	☐	500.000	492.274	2099879.54	0.4117	A	1.1
7	☐	1000.000	1008.147	4279546.97	0.8431	A	1.2
8	☐			802.83	0.0002	P	4.0

$$y = 8.3632E-004 * x + 4.9930E-006$$

$$R = 0.9999$$

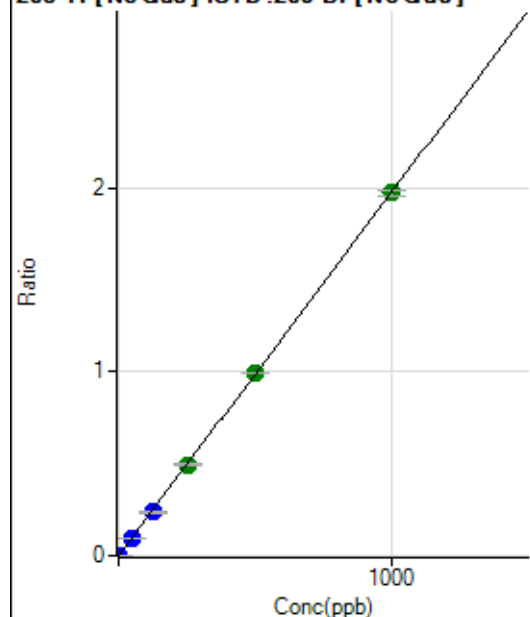
$$DL = 0.006108$$

$$BEC = 0.00597$$

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	83.34	0.0000	P	35.3
2	☐	1.000	0.975	9920.71	0.0019	P	0.7
3	☐	50.000	47.898	488951.03	0.0945	P	1.6
4	☐	125.000	119.673	1224950.16	0.2362	P	2.9
5	☐	250.000	250.051	2528442.68	0.4935	A	1.6
6	☐	500.000	504.337	5076319.12	0.9953	A	0.3
7	☐	1000.000	998.590	10002583.90	1.9708	A	1.3
8	☐			2008.55	0.0004	P	12.8

$$y = 0.0020 * x + 1.6578E-005$$

$$R = 1.0000$$

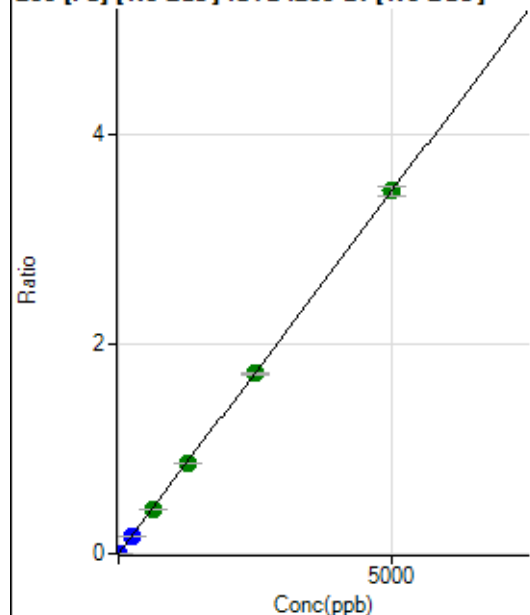
$$DL = 0.008908$$

$$BEC = 0.0084$$

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	364.83	0.0001	P	13.9
2	☐	1.000	0.943	3711.71	0.0007	P	2.1
3	☐	250.000	233.245	835949.54	0.1616	P	0.2
4	☐	625.000	614.640	2208464.79	0.4258	A	2.4
5	☐	1250.000	1256.041	4458527.27	0.8701	A	0.4
6	☐	2500.000	2485.981	8782273.11	1.7221	A	1.3
7	☐	5000.000	5007.632	17604871.69	3.4688	A	2.4
8	☐			3365.33	0.0007	P	8.1

$$y = 6.9270E-004 * x + 7.2777E-005$$

$$R = 1.0000$$

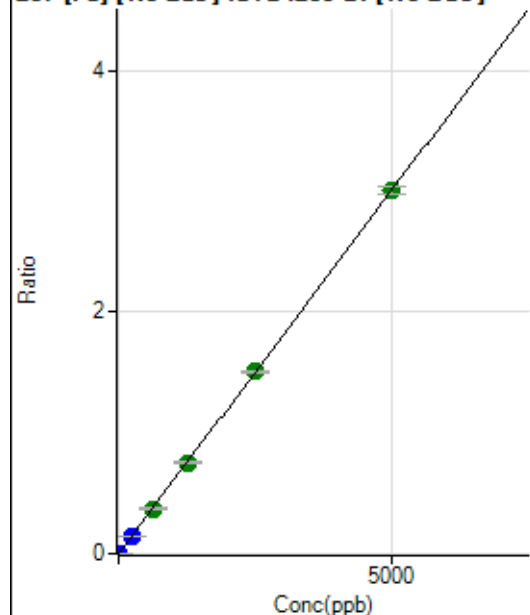
$$DL = 0.04371$$

$$BEC = 0.1051$$

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	337.05	0.0001	P	18.3
2	☐	1.000	0.942	3241.20	0.0006	P	3.6
3	☐	250.000	233.592	727146.63	0.1406	P	0.7
4	☐	625.000	617.317	1926415.96	0.3715	A	2.7
5	☐	1250.000	1251.525	3858670.66	0.7530	A	1.8
6	☐	2500.000	2508.555	7697961.63	1.5093	A	0.8
7	☐	5000.000	4997.122	15260128.58	3.0065	A	2.0
8	☐			2859.63	0.0006	P	6.1

$$y = 6.0163\text{E-}004 * x + 6.7190\text{E-}005$$

$$R = 1.0000$$

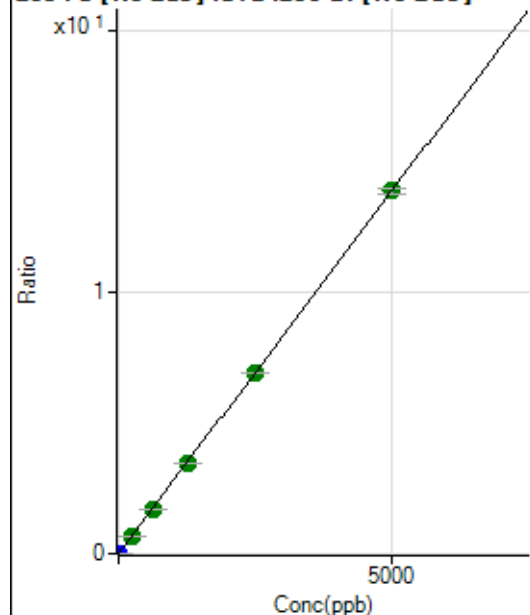
$$DL = 0.0614$$

$$BEC = 0.1117$$

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	1544.51	0.0003	P	7.7
2	☐	1.000	0.939	14872.14	0.0029	P	1.0
3	☐	250.000	239.823	3434348.02	0.6641	A	0.5
4	☐	625.000	613.572	8808187.85	1.6985	A	2.9
5	☐	1250.000	1243.348	17635113.30	3.4415	A	1.3
6	☐	2500.000	2492.774	35190030.77	6.8996	A	0.7
7	☐	5000.000	5007.214	70340412.22	13.8588	A	1.7
8	☐			13421.52	0.0030	P	5.7

$$y = 0.0028 * x + 3.0793\text{E-}004$$

$$R = 1.0000$$

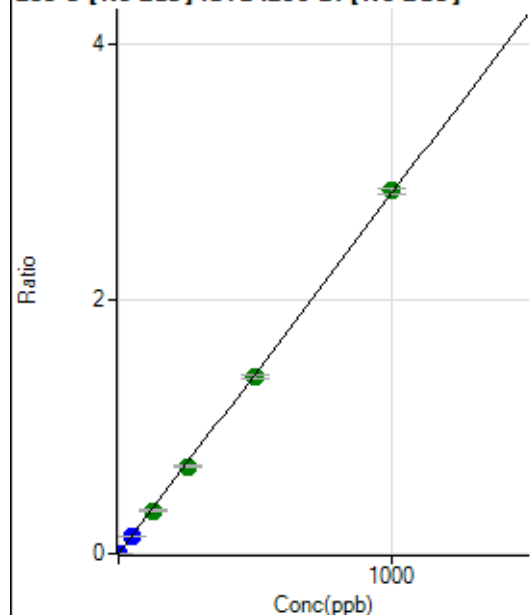
$$DL = 0.02572$$

$$BEC = 0.1113$$

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	16.67	0.0000	P	100.6
2	☐	1.000	0.902	13068.16	0.0026	P	0.4
3	☐	50.000	46.554	681006.03	0.1317	P	1.5
4	☐	125.000	118.353	1735744.84	0.3348	A	3.9
5	☐	250.000	240.915	3491701.90	0.6814	A	1.9
6	☐	500.000	490.294	7073353.76	1.3868	A	1.8
7	☐	1000.000	1008.128	14474168.90	2.8514	A	1.2
8	☐			716.71	0.0002	P	13.1

$$y = 0.0028 * x + 3.3250E-006$$

$$R = 0.9999$$

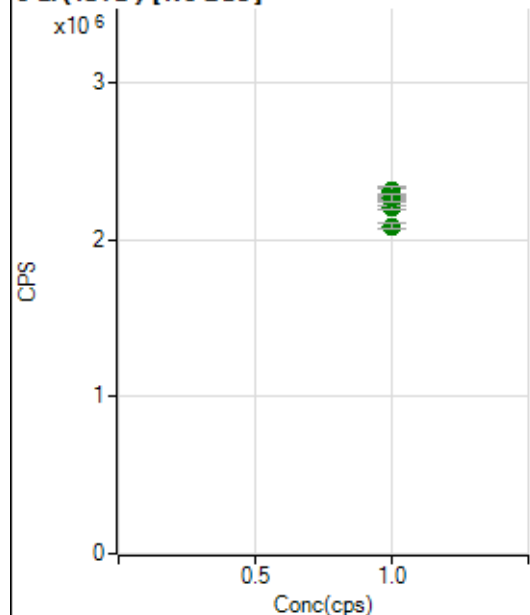
$$DL = 0.003548$$

$$BEC = 0.001176$$

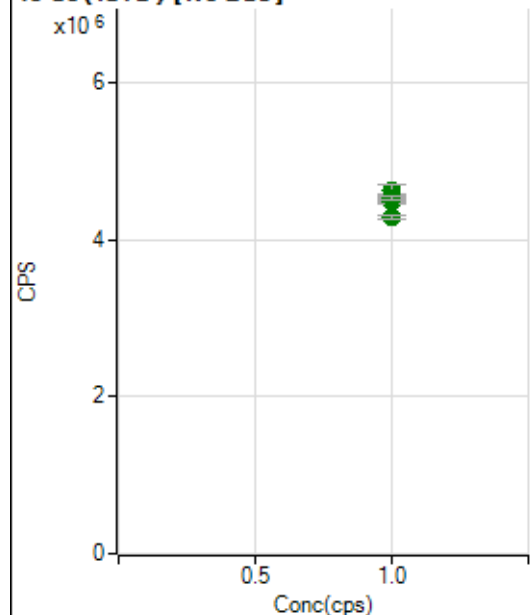
Weight: <None>

Min Conc: 0

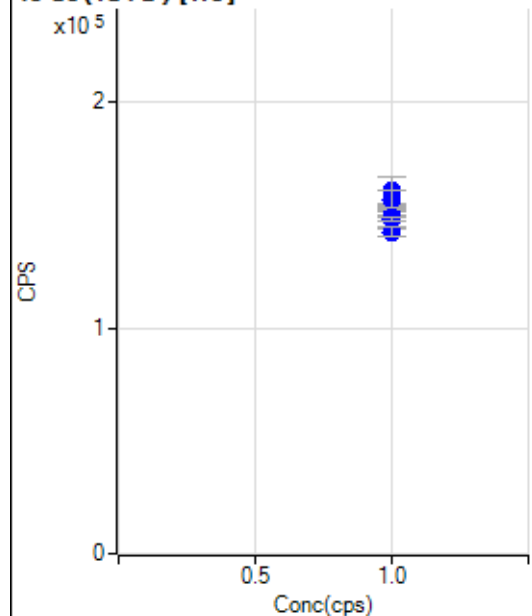
6 Li (ISTD) [No Gas]



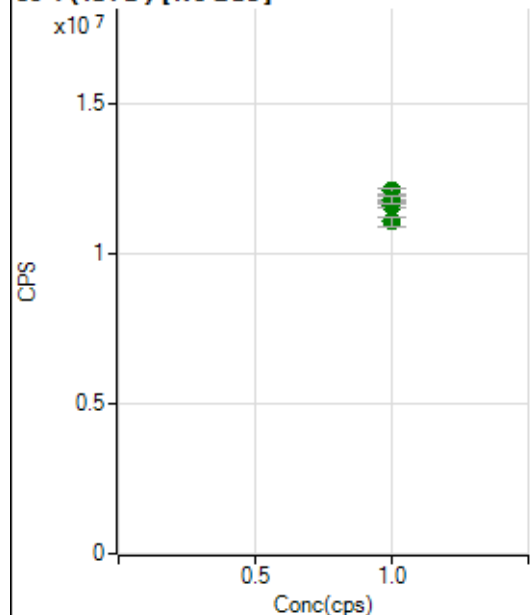
	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		2237346.56		A	1.5
2	☐	1.000		2264692.62		A	2.2
3	☐	1.000		2305007.53		A	1.9
4	☐	1.000		2312077.89		A	2.5
5	☐	1.000		2262741.59		A	0.8
6	☐	1.000		2205524.52		A	0.6
7	☐	1.000		2269286.84		A	2.0
8	☐	1.000		2088989.76		A	1.6

45 Sc (ISTD) [No Gas]

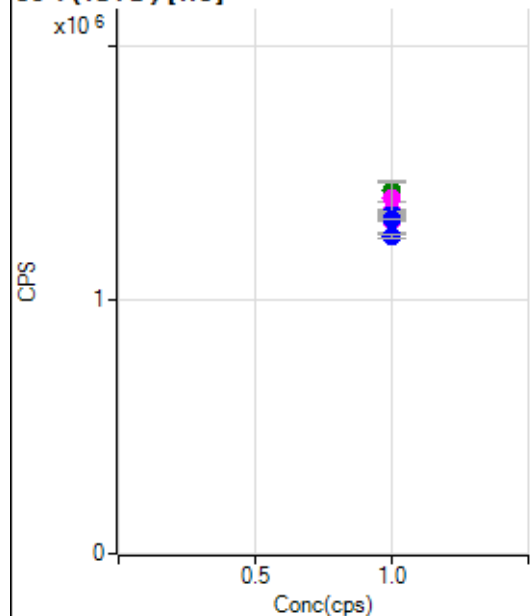
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4509881.25		A	0.8
2	☐	1.000		4484380.18		A	0.1
3	☐	1.000		4524940.45		A	1.3
4	☐	1.000		4622271.15		A	3.3
5	☐	1.000		4527012.92		A	2.1
6	☐	1.000		4483350.94		A	0.9
7	☐	1.000		4531766.01		A	0.9
8	☐	1.000		4279623.10		A	1.0

45 Sc (ISTD) [He]

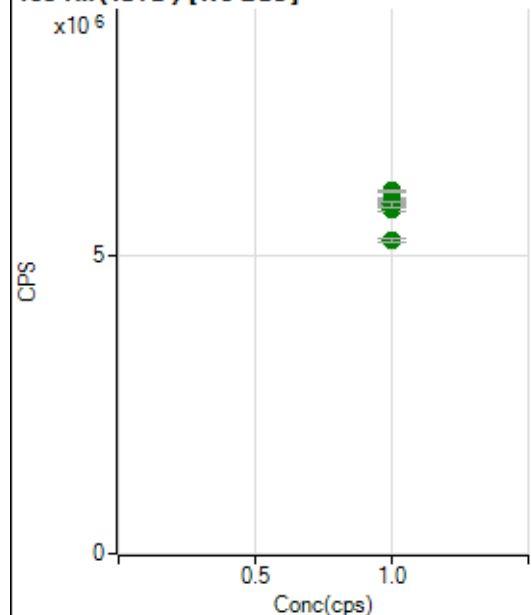
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		160715.36		P	7.3
2	☐	1.000		152311.86		P	0.8
3	☐	1.000		153345.96		P	0.8
4	☐	1.000		156717.55		P	5.2
5	☐	1.000		148375.22		P	6.1
6	☐	1.000		149167.65		P	0.7
7	☐	1.000		148339.12		P	0.9
8	☐	1.000		142342.21		P	3.1

89 Y (ISTD) [No Gas]

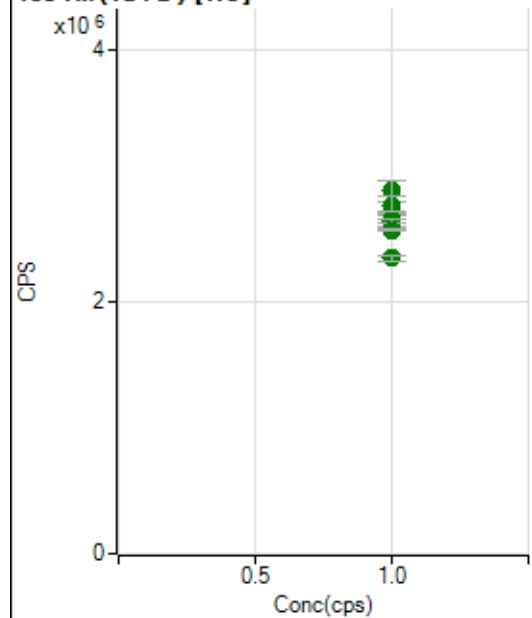
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		11614438.71		A	1.2
2	☐	1.000		11890732.04		A	1.5
3	☐	1.000		11732062.18		A	1.2
4	☐	1.000		12091550.37		A	1.7
5	☐	1.000		11598824.96		A	1.2
6	☐	1.000		11704118.71		A	0.8
7	☐	1.000		11776957.32		A	2.3
8	☐	1.000		11063277.13		A	2.6

89 Y (ISTD) [He]

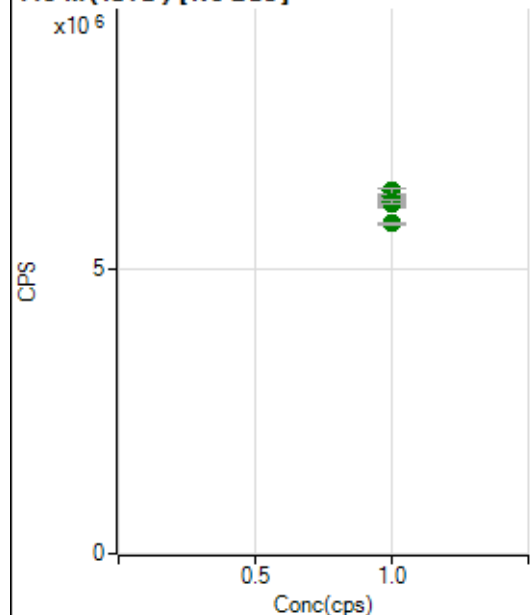
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1428190.60		A	6.1
2	☐	1.000		1344939.54		M	1.9
3	☐	1.000		1339176.16		P	0.3
4	☐	1.000		1402791.02		M	8.6
5	☐	1.000		1307397.14		M	6.6
6	☐	1.000		1315388.77		P	1.4
7	☐	1.000		1316623.71		P	0.4
8	☐	1.000		1249416.69		P	1.7

103 Rh (ISTD) [No Gas]

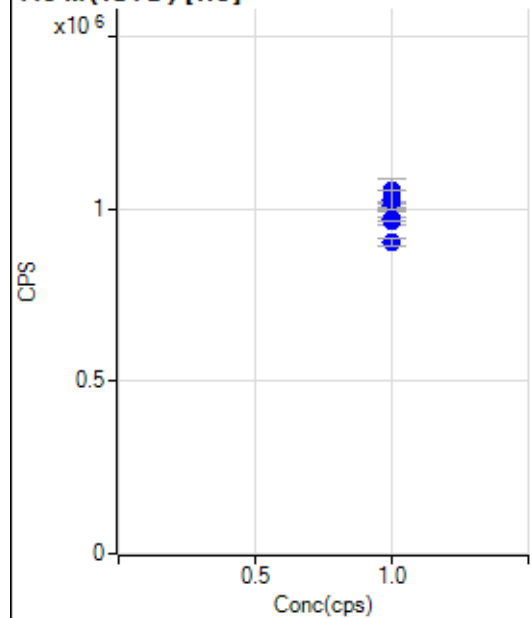
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5890016.54		A	0.8
2	☐	1.000		5968269.67		A	0.2
3	☐	1.000		5897342.06		A	1.1
4	☐	1.000		6081187.90		A	0.5
5	☐	1.000		5779055.16		A	1.0
6	☐	1.000		5825775.43		A	0.7
7	☐	1.000		5864040.50		A	1.6
8	☐	1.000		5262399.46		A	1.0

103 Rh (ISTD) [He]

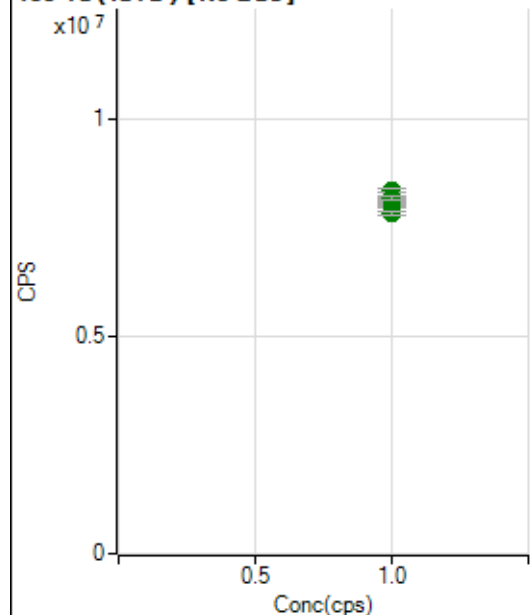
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2875360.75		A	6.2
2	☐	1.000		2695140.29		A	0.8
3	☐	1.000		2703296.56		A	0.5
4	☐	1.000		2764468.91		A	5.6
5	☐	1.000		2652264.20		A	4.5
6	☐	1.000		2640735.64		A	1.2
7	☐	1.000		2567924.06		A	0.3
8	☐	1.000		2342523.28		A	2.2

115 In (ISTD) [No Gas]

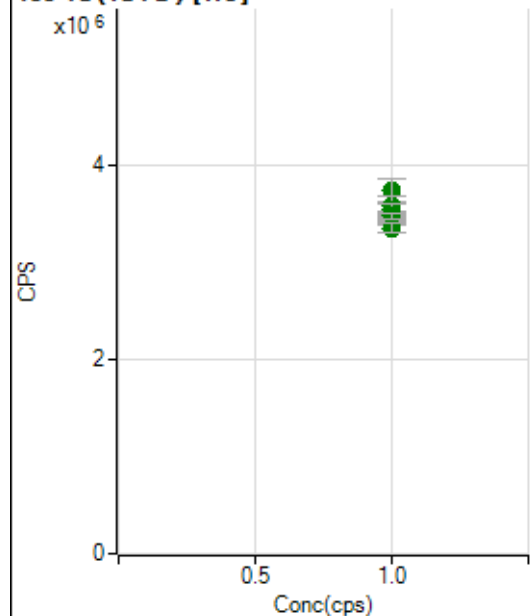
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6211840.20		A	2.0
2	☐	1.000		6236286.32		A	1.7
3	☐	1.000		6263546.96		A	0.8
4	☐	1.000		6357288.91		A	1.8
5	☐	1.000		6129821.40		A	1.8
6	☐	1.000		6123219.50		A	0.6
7	☐	1.000		6165153.78		A	1.3
8	☐	1.000		5783700.39		A	0.3

115 In (ISTD) [He]

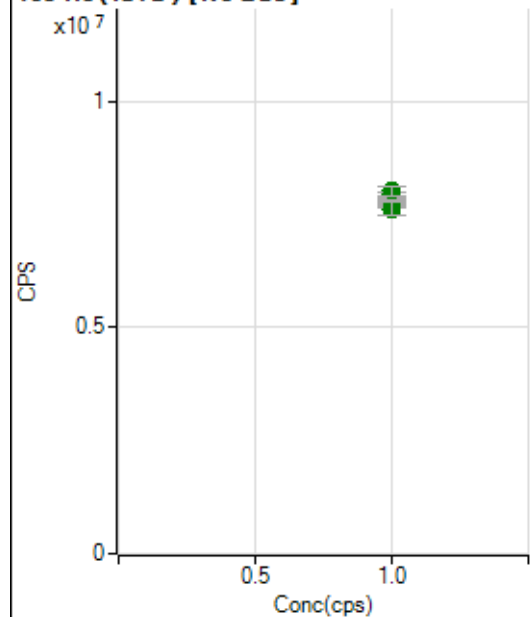
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1052778.17		P	6.3
2	☐	1.000		1008280.02		P	1.8
3	☐	1.000		1003833.99		P	0.4
4	☐	1.000		1028100.93		P	5.5
5	☐	1.000		972801.57		P	4.2
6	☐	1.000		970641.73		P	0.8
7	☐	1.000		963979.93		P	0.3
8	☐	1.000		903844.38		P	2.5

159 Tb (ISTD) [No Gas]

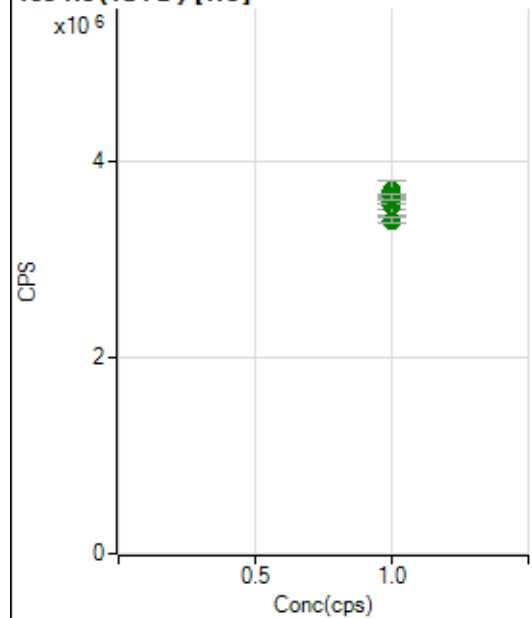
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		8059542.94		A	2.5
2	☐	1.000		8045423.77		A	0.5
3	☐	1.000		7982232.17		A	0.3
4	☐	1.000		8342101.19		A	0.9
5	☐	1.000		8031613.00		A	0.8
6	☐	1.000		8102504.88		A	0.7
7	☐	1.000		8192314.88		A	1.2
8	☐	1.000		7832089.33		A	1.1

159 Tb (ISTD) [He]

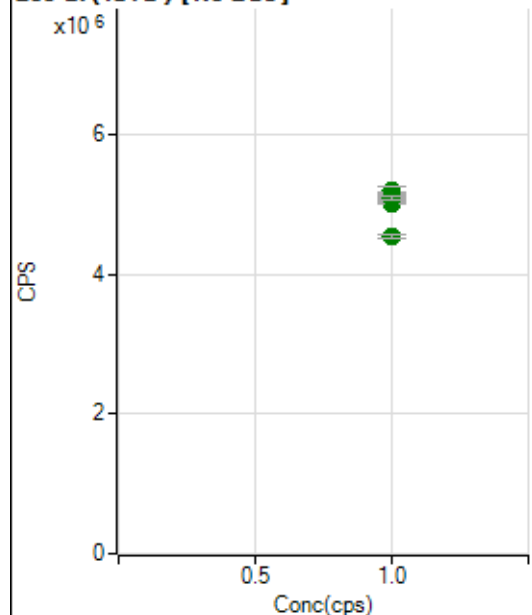
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3737828.76		A	6.3
2	☐	1.000		3493675.26		A	2.2
3	☐	1.000		3444410.19		A	0.8
4	☐	1.000		3591305.02		A	5.6
5	☐	1.000		3495262.86		A	5.9
6	☐	1.000		3548937.90		A	3.0
7	☐	1.000		3481710.19		A	1.8
8	☐	1.000		3358003.21		A	3.5

165 Ho (ISTD) [No Gas]

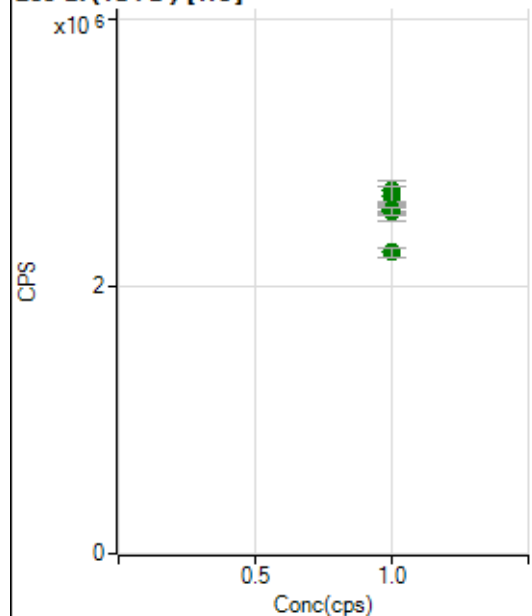
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7750802.26		A	0.3
2	☐	1.000		7694754.17		A	1.3
3	☐	1.000		7678788.54		A	0.5
4	☐	1.000		7958884.47		A	0.7
5	☐	1.000		7802304.34		A	0.6
6	☐	1.000		7842640.11		A	0.5
7	☐	1.000		8024440.63		A	2.4
8	☐	1.000		7625453.73		A	3.9

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3699216.71		A	5.2
2	☐	1.000		3596803.90		A	1.5
3	☐	1.000		3569041.16		A	2.9
4	☐	1.000		3684507.13		A	6.0
5	☐	1.000		3546197.90		A	5.5
6	☐	1.000		3609857.17		A	2.0
7	☐	1.000		3644048.21		A	1.5
8	☐	1.000		3396744.05		A	1.6

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5017603.15		A	1.0
2	☐	1.000		5114231.73		A	0.4
3	☐	1.000		5171647.18		A	0.4
4	☐	1.000		5187960.51		A	2.1
5	☐	1.000		5124003.99		A	0.9
6	☐	1.000		5100120.48		A	0.9
7	☐	1.000		5075859.16		A	1.0
8	☐	1.000		4544701.74		A	1.2

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2717457.88		A	5.9
2	☐	1.000		2578636.35		A	2.3
3	☐	1.000		2594071.94		A	2.1
4	☐	1.000		2678646.14		A	5.7
5	☐	1.000		2560055.28		A	5.8
6	☐	1.000		2575752.11		A	2.7
7	☐	1.000		2566797.76		A	2.2
8	☐	1.000		2257173.07		A	2.9

US EPA Tune Check Report

Operator Name Jaswal
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\IP8052623 MS.b
Acq. Date-Time 2023-05-26 09:19:13
Report Comment ---
Instrument Name G8403A SG19224459

[No Gas]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
9		8748	87480.48			0.983	5.000
24		77074	770744.22			1.521	5.000
25		10206	102056.57			1.061	5.000
26		12017	120171.81			1.118	5.000
59		58878	588784.63			0.952	5.000
113		6789	67893.26			1.308	5.000
115		86655	866554.03			2.038	5.000
206		20245	202451.93			1.259	5.000
207		18400	183996.33			1.096	5.000
208		44617	446170.61			0.856	5.000
220		0	4.10			31.566	

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

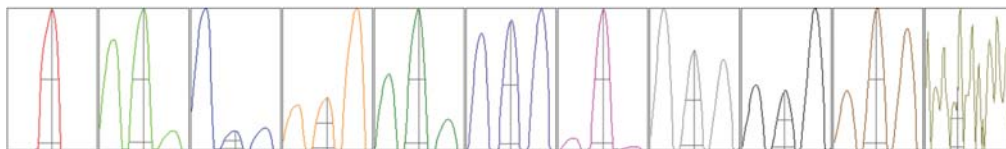
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	8832	8761	8791	8751	8605
24	76262	78260	76764	78334	75753
25	10188	10330	10194	10273	10043
26	12055	12141	12046	12057	11787
59	58658	59305	59018	59393	58018
113	6807	6854	6797	6851	6637
115	86587	87885	87084	88042	83679
206	19991	20233	20062	20644	20295
207	18278	18246	18314	18741	18419
208	44887	44209	44446	45137	44406

US EPA Tune Check Report

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

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	15921.14	9.00	8.90 - 9.10	
24	141305.84	24.00	23.90 - 24.10	
25	18747.83	25.00	24.90 - 25.10	
26	22010.46	26.00	25.90 - 26.10	
59	114656.24	59.00	58.90 - 59.10	
113	13696.41	113.00	112.90 - 113.10	
115	178457.85	115.05	114.90 - 115.10	
206	40691.16	206.00	205.90 - 206.10	
207	36702.63	206.95	206.90 - 207.10	
208	87408.67	207.95	207.90 - 208.10	
220	0.40	219.60	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.59	0.738	0.900	
24	0.57	0.778	0.900	
25	0.57	0.763	0.900	
26	0.58	0.740	0.900	
59	0.54	0.764	0.900	
113	0.51	0.687	0.900	
115	0.50	0.731	0.900	
206	0.50	0.767	0.900	
207	0.51	0.773	0.900	
208	0.52	0.778	0.900	
220	0.39	0.444		

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode --- Nebulizer Gas 0.84 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	1.40 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	10.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	-6.0 V	Omega Lens	9.0 V	Deflect	15.8 V
Extract 2	-170.0 V	Cell Entrance	-30 V	Plate Bias	-50 V
Omega Bias	-95 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	4.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	---	OctP RF	190 V		

QP Parameters

Mass Gain	123	Axis Gain	0.9992	QP Bias	-4.0 V
Mass Offset	126	Axis Offset	-0.01		

Hardware Settings

Torch

Torch H	1.4 mm	Torch V	-0.9 mm
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EM

Discriminator	4.4 mV	Analog HV	2323 V	Pulse HV	1708 V
---------------	--------	-----------	--------	----------	--------

[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		12541	125406.96			0.720	
89		10924	109238.61			1.340	
205		14348	143476.37			0.872	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	12436	12540	12514	12528	12685
89	10922	10704	10892	11097	11004
205	14389	14188	14247	14431	14483

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.84 L/min	Dilution Gas	0.40 L/min
RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.40 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	10.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	-6.0 V	Omega Lens	9.0 V	Deflect	4.2 V
-----------	--------	------------	-------	---------	-------

US EPA Tune Check Report

Extract 2	-170.0 V	Cell Entrance	-50 V	Plate Bias	-60 V
Omega Bias	-95 V	Cell Exit	-70 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	4.5 mL/min	OctP Bias	-18.0 V		
H2 Flow	---	OctP RF	190 V		

QP Parameters

Mass Gain	123	Axis Gain	0.9992	QP Bias	-13.0 V
Mass Offset	126	Axis Offset	-0.01		

Hardware Settings

Torch

Torch H	1.4 mm	Torch V	-0.9 mm
---------	--------	---------	---------

EM

Discriminator	4.4 mV	Analog HV	2323 V	Pulse HV	1708 V
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