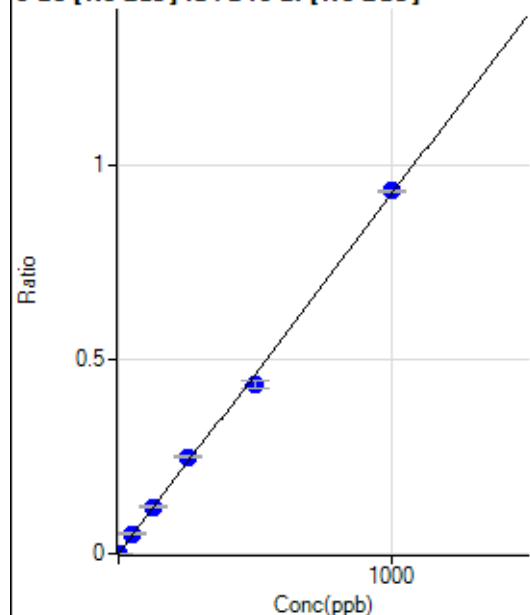


Batch Folder: D:\Agilent\ICPMH\1\DATA\P8072320 MS.b\
Analysis File: P8072320 MS.batch.bin
DA Date-Time: 2020-07-23 17:49:27
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	005CALB.d	S00	2020-07-23 11:37:41
2	007CAL.S.d	S02	2020-07-23 11:44:10
3	008CAL.S.d	S03	2020-07-23 11:47:26
4	009CAL.S.d	S04	2020-07-23 11:50:38
5	010CAL.S.d	S05	2020-07-23 11:53:46
6	011CAL.S.d	S06	2020-07-23 11:56:44
7	012CAL.S.d	S07	2020-07-23 11:59:45
8	013CAL.S.d	S08	2020-07-23 12:02:43

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	35.32	0.0000	P	26.6
2	☐	1.000	0.971	777.87	0.0009	P	9.2
3	☐	50.000	54.568	40683.04	0.0506	P	6.9
4	☐	125.000	130.678	101541.81	0.1211	P	0.6
5	☐	250.000	268.751	207565.05	0.2491	P	1.1
6	☐	500.000	470.552	410442.83	0.4360	P	3.8
7	☐	1000.000	1009.098	818873.45	0.9350	P	0.9
8	☐			179.30	0.0002	P	8.2

$$y = 9.2657E-004 * x + 4.2130E-005$$

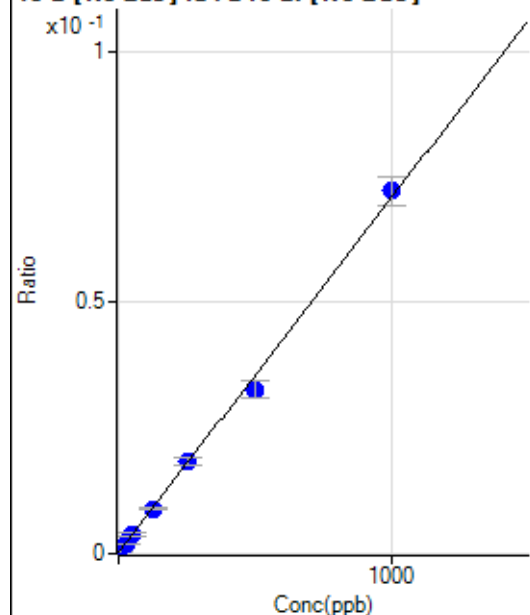
$$R = 0.9992$$

$$DL = 0.03629$$

$$BEC = 0.04547$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	197.96	0.0002	P	8.7
2	☐	25.000	22.873	1531.12	0.0019	P	8.3
3	☐	50.000	51.033	3079.73	0.0038	P	16.6
4	☐	125.000	123.750	7525.79	0.0090	P	7.1
5	☐	250.000	255.130	15209.54	0.0183	P	8.2
6	☐	500.000	459.743	30737.25	0.0327	P	10.6
7	☐	1000.000	1019.004	63207.80	0.0722	P	8.2
8	☐			10106.82	0.0119	P	8.7

$$y = 7.0602E-005 * x + 2.3824E-004$$

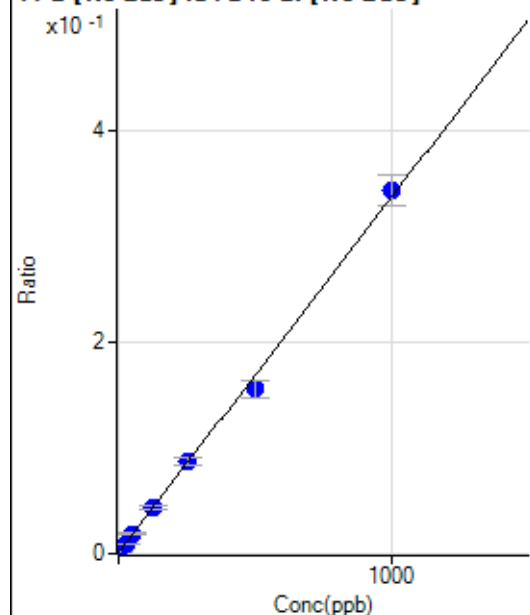
$$R = 0.9988$$

$$DL = 0.8825$$

$$BEC = 3.374$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	913.19	0.0011	P	10.0
2	☐	25.000	22.945	7268.37	0.0088	P	9.3
3	☐	50.000	51.583	14779.18	0.0184	P	12.4
4	☐	125.000	125.672	36300.16	0.0433	P	7.3
5	☐	250.000	255.357	72355.62	0.0868	P	9.3
6	☐	500.000	461.091	146576.38	0.1559	P	10.1
7	☐	1000.000	1018.004	300246.43	0.3429	P	8.4
8	☐			47588.58	0.0558	P	8.7

$$y = 3.3574\text{E-}004 * x + 0.0011$$

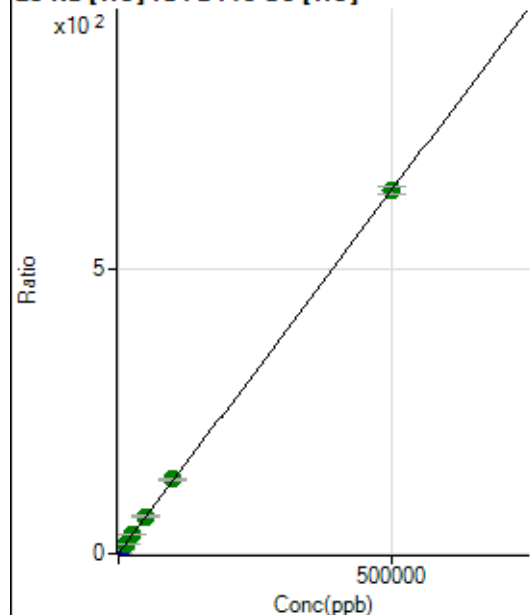
R = 0.9989

DL = 0.9819

BEC = 3.268

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	39788.19	0.3684	P	2.2
2	☐	500.000	472.896	105739.76	0.9708	P	1.1
3	☐	5000.000	4970.693	775305.45	6.6999	P	6.7
4	☐	12500.000	12887.466	1856367.60	16.7840	A	2.8
5	☐	25000.000	25912.021	3626293.75	33.3743	A	1.0
6	☐	50000.000	51066.057	7246484.45	65.4147	A	1.6
7	☐	100000.00	102675.46	14251463.86	131.1530	A	2.0
8	☐	500000.00	499303.33	67977633.46	636.3642	A	2.0

$$y = 0.0013 * x + 0.3684$$

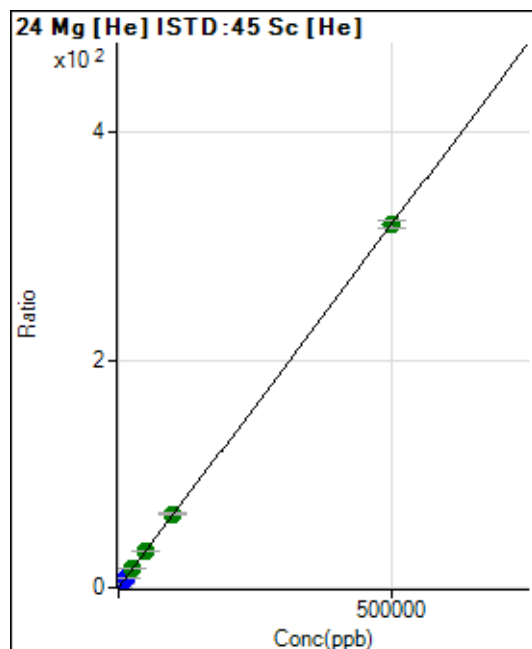
R = 1.0000

DL = 19.33

BEC = 289.2

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	1736.26	0.0161	P	2.8
2	☐	500.000	462.874	33895.61	0.3112	P	1.0
3	☐	5000.000	4919.576	364840.02	3.1526	P	6.6
4	☐	12500.000	12967.182	916265.31	8.2834	P	2.0
5	☐	25000.000	26008.731	1803491.82	16.5982	A	0.7
6	☐	50000.000	50955.857	3600900.95	32.5035	A	0.6
7	☐	100000.00	101775.19	7052691.83	64.9038	A	1.8
8	☐	500000.00	499488.10	34019145.55	318.4696	A	2.1

$$y = 6.3756\text{E-}004 * x + 0.0161$$

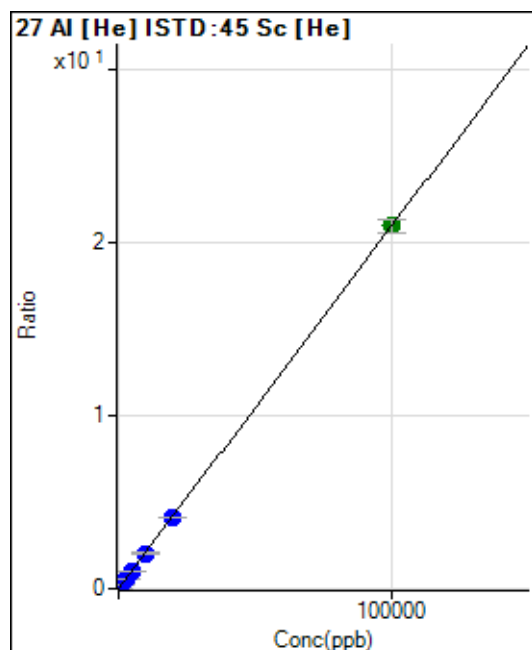
$$R = 1.0000$$

$$DL = 2.144$$

$$BEC = 25.22$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	969.84	0.0090	P	7.4
2	☐	20.000	21.087	1459.12	0.0134	P	3.2
3	☐	1000.000	930.418	23593.05	0.2039	P	6.6
4	☐	2500.000	2434.679	57403.47	0.5190	P	2.0
5	☐	5000.000	4985.248	114436.55	1.0532	P	0.4
6	☐	10000.000	9764.457	227571.26	2.0543	P	1.3
7	☐	20000.000	19557.383	446123.37	4.1055	P	0.7
8	☐	100000.00	100115.14	2240503.24	20.9792	A	3.6

$$y = 2.0946\text{E-}004 * x + 0.0090$$

$$R = 1.0000$$

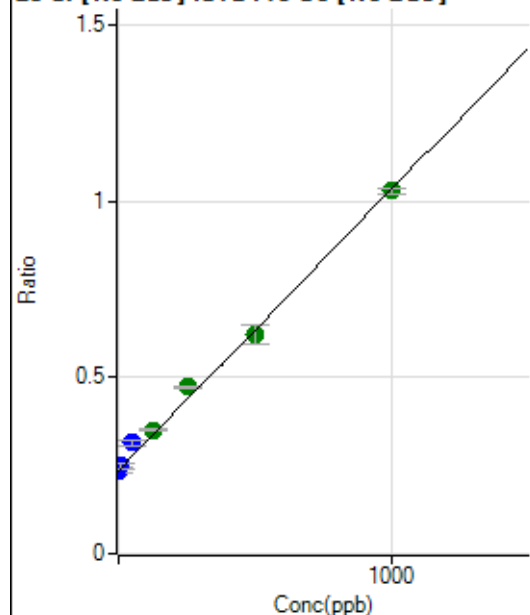
$$DL = 9.479$$

$$BEC = 42.87$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	708618.65	0.2363	P	6.1
2	☐	10.000	15.461	734482.44	0.2486	P	4.9
3	☐	50.000	98.414	896634.07	0.3149	P	4.8
4	☐	125.000	142.482	1039801.15	0.3500	A	2.1
5	☐	250.000	295.654	1379775.97	0.4723	A	1.2
6	☐	500.000	482.236	2047068.88	0.6213	A	8.8
7	☐	1000.000	992.808	3185201.01	1.0289	A	1.9
8	☐			960553.68	0.3248	P	1.1

$$y = 7.9831\text{E-}004 * x + 0.2363$$

R = 0.9979

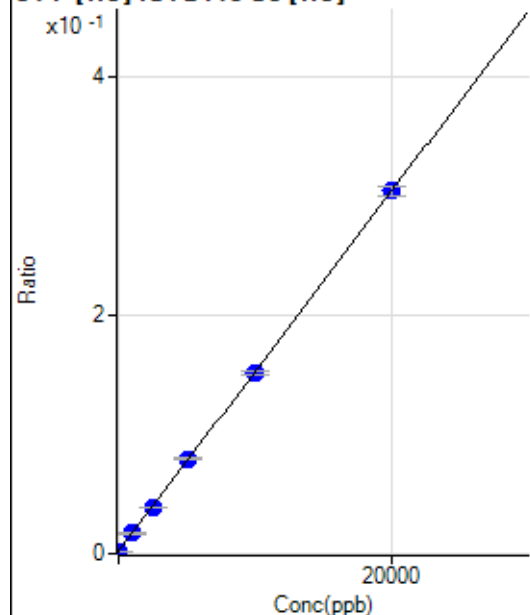
DL = 54.13

BEC = 296

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	13.165	230.56	0.0021	P	15.4
2	☐	0.000	-13.165	188.90	0.0017	P	13.6
3	☐	1000.000	1029.227	2025.20	0.0175	P	7.2
4	☐	2500.000	2421.197	4264.63	0.0385	P	0.9
5	☐	5000.000	5136.622	8650.01	0.0796	P	2.3
6	☐	10000.000	9910.569	16815.62	0.1518	P	2.2
7	☐	20000.000	20018.949	33104.93	0.3047	P	2.4
8	☐			216.67	0.0020	P	23.0

$$y = 1.5122\text{E-}005 * x + 0.0019$$

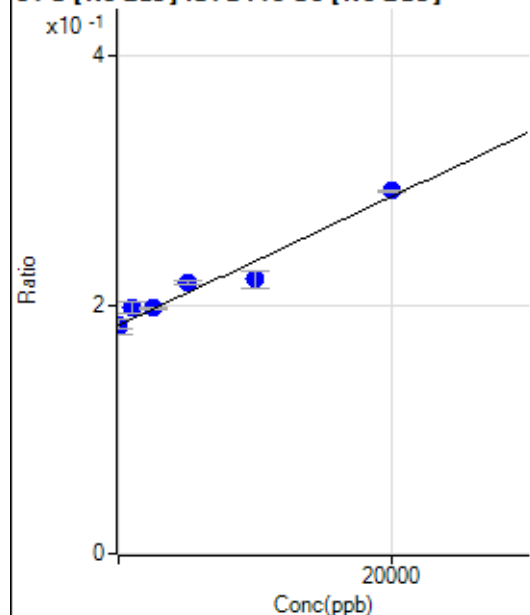
R = 0.9999

DL = 55.97

BEC = 127.9

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	-200.079	546935.00	0.1824	P	6.5
2	☐	0.000	200.079	545064.51	0.1845	P	4.3
3	☐	1000.000	2769.860	563297.46	0.1978	P	4.1
4	☐	2500.000	2651.391	585681.57	0.1972	P	0.5
5	☐	5000.000	6712.782	637180.63	0.2182	P	1.7
6	☐	10000.000	7170.837	727320.64	0.2205	P	6.4
7	☐	20000.000	20878.969	902142.84	0.2914	P	0.8
8	☐			543721.57	0.1838	P	0.6

$$y = 5.1714\text{E-}006 * x + 0.1834$$

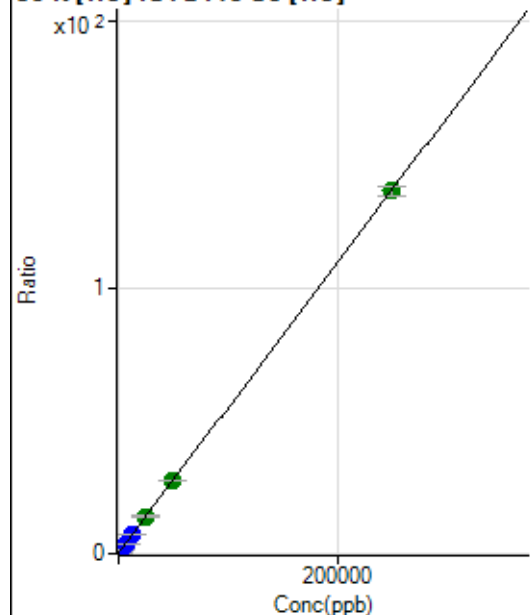
$$R = 0.9772$$

$$DL = 5781$$

$$BEC = 3.547\text{E}+04$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	32829.65	0.3040	P	2.0
2	☐	500.000	466.445	60755.98	0.5578	P	3.1
3	☐	2500.000	2408.109	186880.40	1.6143	P	5.8
4	☐	6250.000	6397.661	418724.26	3.7852	P	1.5
5	☐	12500.000	13125.274	809056.50	7.4460	P	0.7
6	☐	25000.000	25251.768	1555852.48	14.0446	A	2.3
7	☐	50000.000	50341.305	3009691.65	27.6968	A	0.6
8	☐	250000.00	249872.59	14554926.71	136.2703	A	2.7

$$y = 5.4414\text{E-}004 * x + 0.3040$$

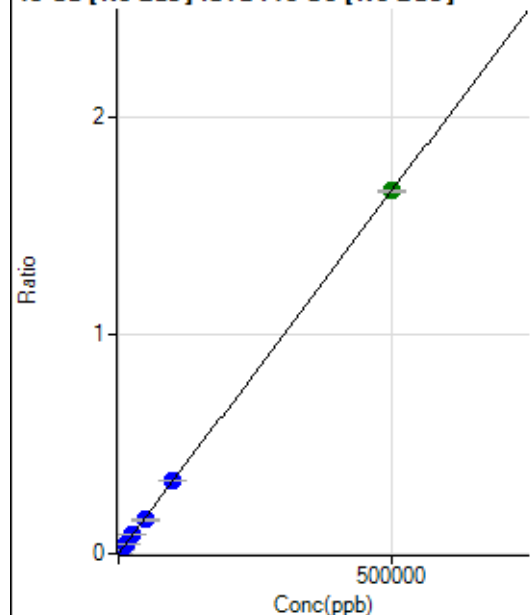
$$R = 1.0000$$

$$DL = 33.67$$

$$BEC = 558.7$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	847.27	0.0003	P	12.4
2	☐	500.000	430.089	5051.04	0.0017	P	9.2
3	☐	5000.000	5464.661	52507.71	0.0184	P	4.6
4	☐	12500.000	12670.925	125887.59	0.0424	P	0.8
5	☐	25000.000	26370.038	256725.24	0.0879	P	0.6
6	☐	50000.000	46701.216	512693.04	0.1554	P	6.3
7	☐	100000.00	99921.521	1028496.17	0.3322	P	0.5
8	☐	500000.00	500268.22	4916213.65	1.6622	A	0.7

$$y = 3.3221\text{E-}006 * x + 2.8326\text{E-}004$$

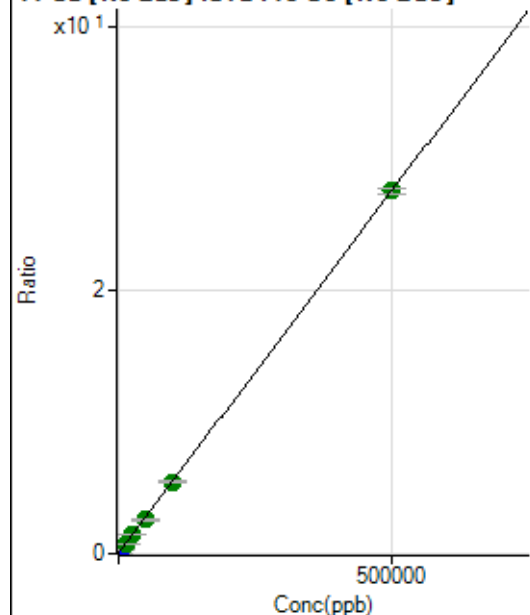
$$R = 1.0000$$

$$DL = 31.71$$

$$BEC = 85.27$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	132674.47	0.0442	P	6.3
2	☐	500.000	443.407	202583.06	0.0686	P	5.9
3	☐	5000.000	5727.762	1022018.35	0.3588	P	4.2
4	☐	12500.000	12729.815	2208395.43	0.7434	A	0.9
5	☐	25000.000	25930.425	4289429.48	1.4684	A	1.5
6	☐	50000.000	46086.468	8493002.10	2.5754	A	6.8
7	☐	100000.00	98703.932	16919358.36	5.4653	A	0.6
8	☐	500000.00	500591.07	81441321.26	27.5381	A	1.4

$$y = 5.4923\text{E-}005 * x + 0.0442$$

$$R = 1.0000$$

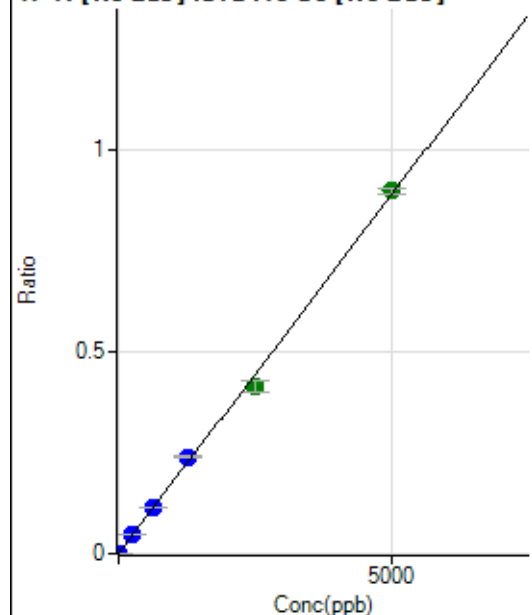
$$DL = 152.8$$

$$BEC = 805.6$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	850.05	0.0003	P	10.4
2	☐	5.000	4.518	3211.56	0.0011	P	7.0
3	☐	250.000	270.319	137765.40	0.0484	P	3.5
4	☐	625.000	649.338	343893.29	0.1158	P	1.5
5	☐	1250.000	1349.347	701713.49	0.2403	P	2.1
6	☐	2500.000	2333.029	1369485.82	0.4152	A	6.5
7	☐	5000.000	5054.591	2783560.91	0.8992	A	1.5
8	☐			1036.18	0.0004	P	5.6

$$y = 1.7784\text{E-}004 * x + 2.8380\text{E-}004$$

R = 0.9990

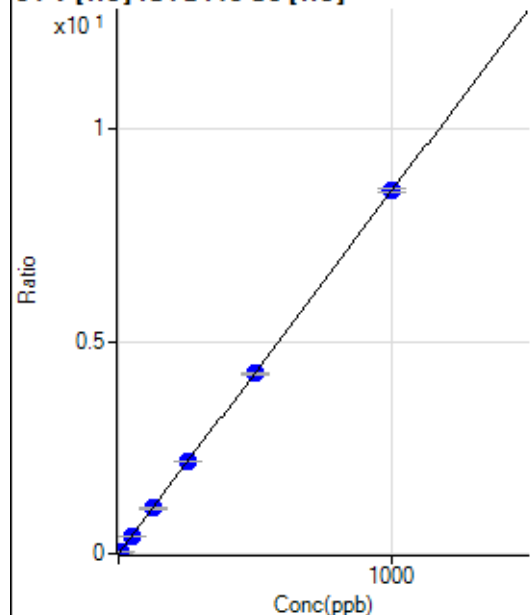
DL = 0.4999

BEC = 1.596

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	13.33	0.0001	P	24.3
2	☐	5.000	4.609	4301.81	0.0395	P	1.7
3	☐	50.000	47.571	47041.45	0.4065	P	6.7
4	☐	125.000	124.833	117972.21	1.0665	P	2.2
5	☐	250.000	254.882	236600.69	2.1775	P	0.4
6	☐	500.000	496.339	469745.55	4.2402	P	1.0
7	☐	1000.000	1000.754	929013.08	8.5494	P	1.0
8	☐			161.12	0.0015	P	11.9

$$y = 0.0085 * x + 1.2328\text{E-}004$$

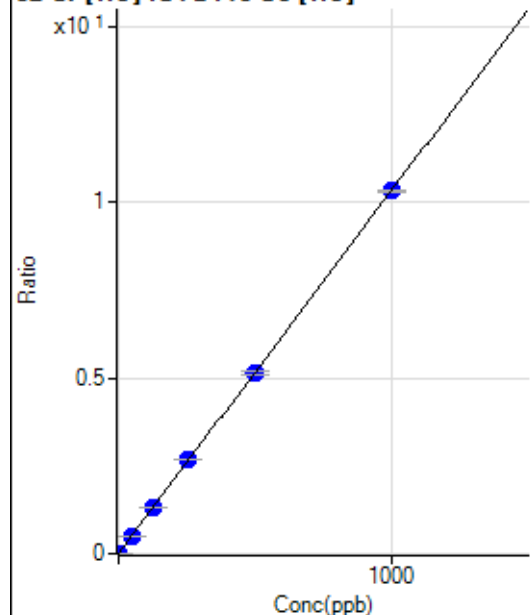
R = 1.0000

DL = 0.01051

BEC = 0.01443

Weight: <None>

Min Conc: 0

52 Cr [He] ISTD:45 Sc [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	683.36	0.0063	P	1.1
2	☐	2.000	1.816	2729.18	0.0251	P	2.8
3	☐	50.000	47.254	57121.21	0.4937	P	6.9
4	☐	125.000	126.453	144950.66	1.3104	P	2.3
5	☐	250.000	257.094	288782.64	2.6578	P	0.4
6	☐	500.000	498.018	569684.97	5.1424	P	1.3
7	☐	1000.000	999.173	1120432.62	10.3109	P	0.7
8	☐			4945.34	0.0463	P	0.9

$$y = 0.0103 * x + 0.0063$$

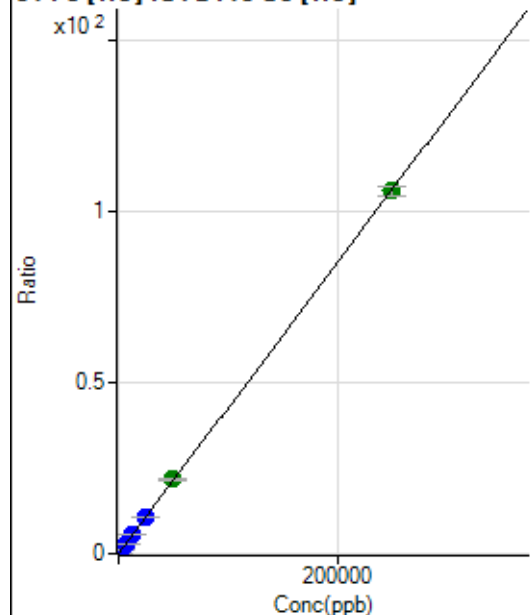
$$R = 1.0000$$

$$DL = 0.02018$$

$$BEC = 0.6134$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	431.49	0.0040	P	7.6
2	☐	50.000	47.414	2629.92	0.0241	P	5.3
3	☐	2500.000	2393.191	118143.37	1.0210	P	6.9
4	☐	6250.000	6313.626	297209.83	2.6871	P	2.6
5	☐	12500.000	13045.117	602804.72	5.5478	P	0.5
6	☐	25000.000	25161.480	1185034.10	10.6969	P	1.0
7	☐	50000.000	51136.970	2361965.51	21.7358	A	0.8
8	☐	250000.00	249728.68	11335969.93	106.1318	A	2.7

$$y = 4.2497E-004 * x + 0.0040$$

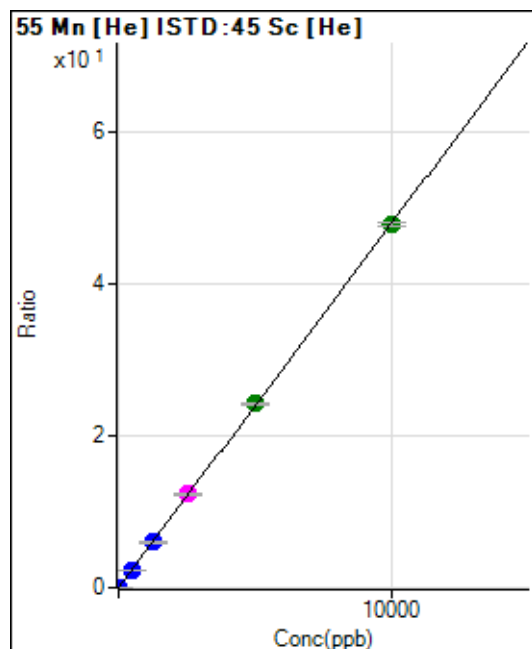
$$R = 1.0000$$

$$DL = 2.142$$

$$BEC = 9.4$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	44.44	0.0004	P	51.1
2	☐	1.000	0.981	557.79	0.0051	P	7.9
3	☐	500.000	477.717	265284.63	2.2928	P	7.0
4	☐	1250.000	1245.212	660921.37	5.9757	P	2.8
5	☐	2500.000	2568.700	1339364.39	12.3266	M	1.0
6	☐	5000.000	5046.281	2682587.32	24.2155	A	1.3
7	☐	10000.000	9961.397	5194307.70	47.8011	A	1.0
8	☐			3261.53	0.0305	P	7.1

$$y = 0.0048 * x + 4.1292E-004$$

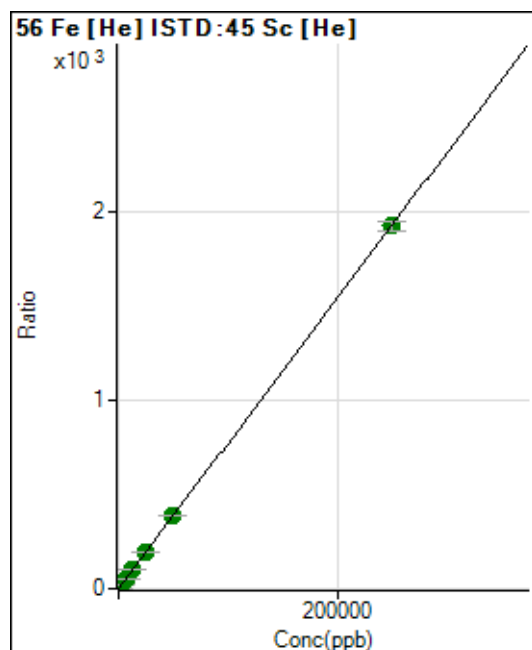
$$R = 0.9999$$

$$DL = 0.1319$$

$$BEC = 0.08605$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	2724.38	0.0252	P	1.4
2	☐	50.000	46.687	41813.07	0.3839	P	0.4
3	☐	2500.000	2426.282	2159325.77	18.6641	A	7.2
4	☐	6250.000	6278.594	5338329.98	48.2579	A	1.5
5	☐	12500.000	12746.600	10642510.42	97.9457	A	1.4
6	☐	25000.000	24953.487	21239491.91	191.7201	A	0.8
7	☐	50000.000	49909.340	41665792.13	383.4331	A	0.5
8	☐	250000.00	250010.47	205143860.1	1,920.627	A	2.8

$$y = 0.0077 * x + 0.0252$$

$$R = 1.0000$$

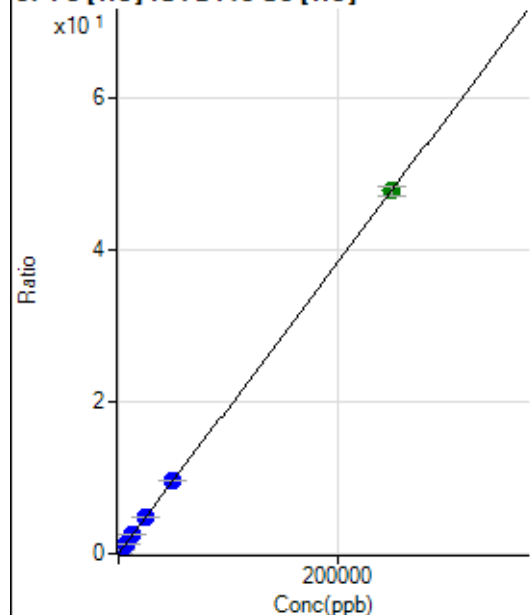
$$DL = 0.1364$$

$$BEC = 3.284$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	174.08	0.0016	P	25.3
2	☐	50.000	49.368	1201.92	0.0110	P	4.0
3	☐	2500.000	2413.517	53461.10	0.4621	P	7.7
4	☐	6250.000	6322.207	133625.64	1.2079	P	1.4
5	☐	12500.000	12758.532	264687.81	2.4360	P	1.0
6	☐	25000.000	24988.563	528372.53	4.7696	P	1.4
7	☐	50000.000	49952.020	1035870.81	9.5327	P	0.6
8	☐	250000.00	249996.87	5095002.54	47.7022	A	2.7

$$y = 1.9080\text{E-}004 * x + 0.0016$$

$$R = 1.0000$$

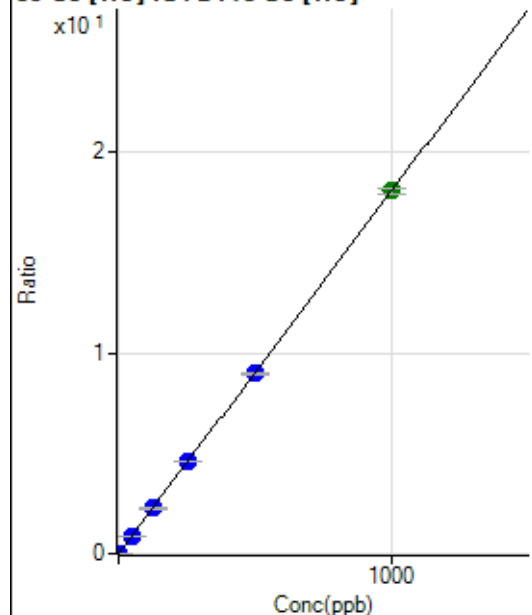
$$DL = 6.424$$

$$BEC = 8.462$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	35.56	0.0003	P	5.9
2	☐	1.000	0.936	1880.15	0.0173	P	1.1
3	☐	50.000	47.960	100381.68	0.8676	P	7.0
4	☐	125.000	125.880	251789.88	2.2765	P	2.8
5	☐	250.000	255.515	502062.77	4.6206	P	0.6
6	☐	500.000	497.158	995927.34	8.9901	P	1.3
7	☐	1000.000	1000.034	1964996.83	18.0833	A	1.7
8	☐			3301.53	0.0309	P	6.0

$$y = 0.0181 * x + 3.2928\text{E-}004$$

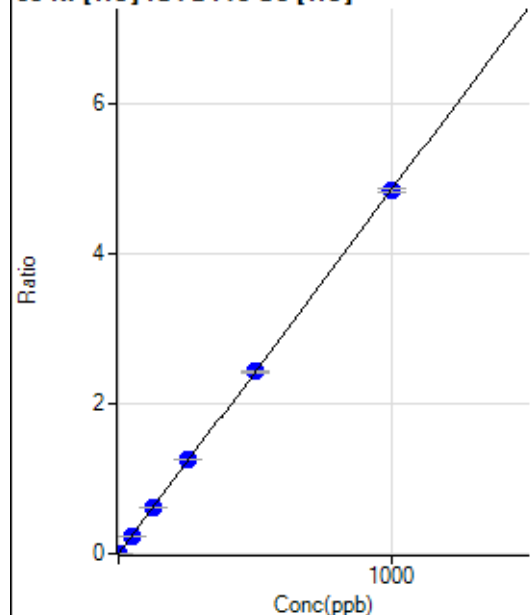
$$R = 1.0000$$

$$DL = 0.003241$$

$$BEC = 0.01821$$

Weight: <None>

Min Conc: 0

60 Ni [He] ISTD:45 Sc [He]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	73.33	0.0007	P	22.0
2	☐	1.000	0.968	585.57	0.0054	P	6.5
3	☐	50.000	48.160	27115.94	0.2344	P	7.2
4	☐	125.000	126.183	67799.48	0.6130	P	2.5
5	☐	250.000	260.017	137169.61	1.2624	P	0.3
6	☐	500.000	500.378	269061.72	2.4288	P	1.2
7	☐	1000.000	997.251	525922.46	4.8399	P	1.0
8	☐			1730.12	0.0162	P	3.0

$$y = 0.0049 * x + 6.7812E-004$$

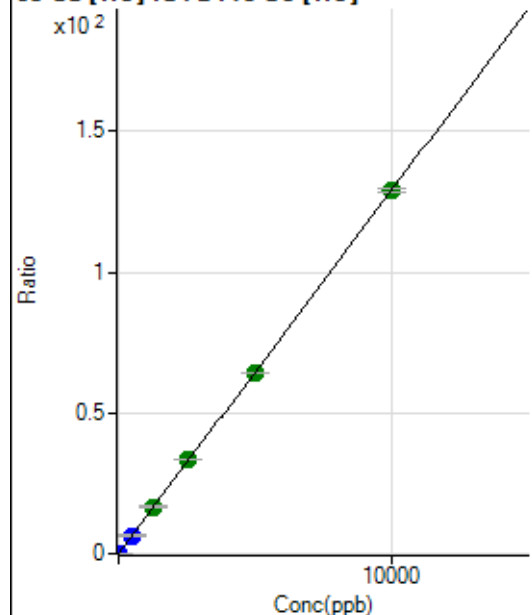
$$R = 0.9999$$

$$DL = 0.09215$$

$$BEC = 0.1397$$

Weight: <None>

Min Conc: 0

63 Cu [He] ISTD:45 Sc [He]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	430.01	0.0040	P	13.9
2	☐	2.000	1.994	3238.18	0.0297	P	5.7
3	☐	500.000	487.150	728246.60	6.2935	P	6.8
4	☐	1250.000	1283.557	1833554.23	16.5757	A	2.2
5	☐	2500.000	2601.921	3650523.28	33.5968	A	0.7
6	☐	5000.000	4971.545	7111496.14	64.1906	A	0.5
7	☐	10000.000	9985.195	14009087.29	128.9207	A	1.2
8	☐			4190.65	0.0392	P	2.4

$$y = 0.0129 * x + 0.0040$$

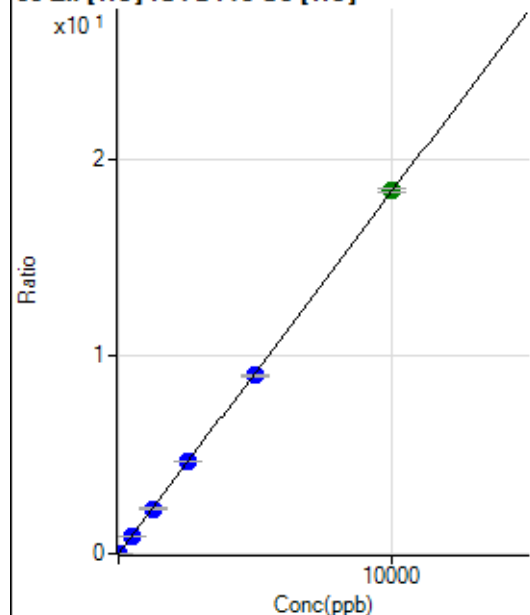
$$R = 0.9999$$

$$DL = 0.1284$$

$$BEC = 0.3087$$

Weight: <None>

Min Conc: 0

⁶⁶Zn [He] ISTD: ⁴⁵Sc [He]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	114.45	0.0011	P	21.7
2	☐	2.000	2.087	532.24	0.0049	P	13.2
3	☐	500.000	471.720	100179.55	0.8660	P	7.5
4	☐	1250.000	1244.286	252468.16	2.2825	P	2.4
5	☐	2500.000	2535.003	505163.36	4.6492	P	0.5
6	☐	5000.000	4923.585	1000193.18	9.0288	P	1.6
7	☐	10000.000	10031.585	1998847.99	18.3947	A	1.1
8	☐			1681.23	0.0157	P	0.9

$$y = 0.0018 * x + 0.0011$$

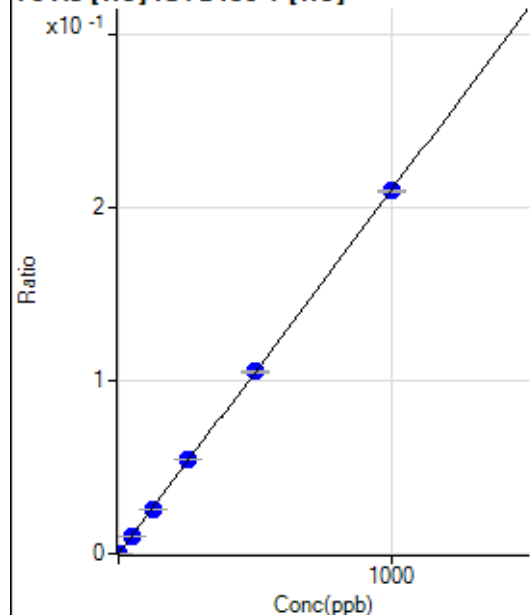
$$R = 0.9999$$

$$DL = 0.3758$$

$$BEC = 0.5777$$

Weight: <None>

Min Conc: 0

⁷⁵As [He] ISTD: ⁸⁹Y [He]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	5.33	0.0000	P	39.1
2	☐	1.000	0.973	151.02	0.0002	P	8.9
3	☐	50.000	48.099	7693.21	0.0101	P	5.9
4	☐	125.000	123.922	19162.53	0.0260	P	0.3
5	☐	250.000	257.566	38896.41	0.0540	P	0.2
6	☐	500.000	500.506	76901.38	0.1050	P	0.7
7	☐	1000.000	998.085	152185.19	0.2094	P	0.4
8	☐			63.01	0.0001	P	3.2

$$y = 2.0979E-004 * x + 7.5890E-006$$

$$R = 1.0000$$

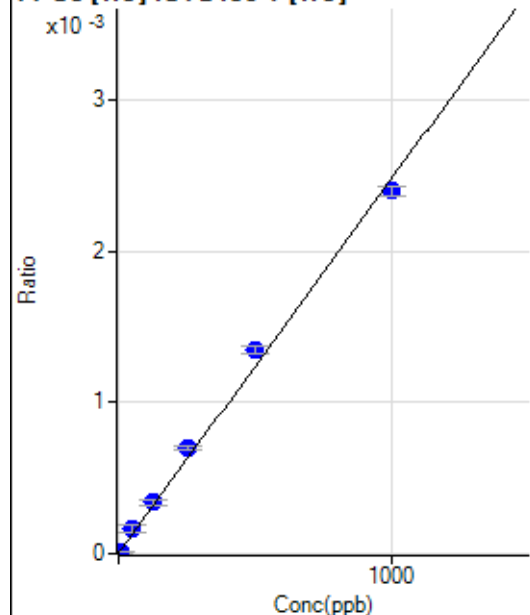
$$DL = 0.04247$$

$$BEC = 0.03617$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	1.11	0.0000	P	173.2
2	☐	5.000	3.765	7.78	0.0000	P	24.3
3	☐	50.000	67.546	128.89	0.0002	P	31.0
4	☐	125.000	136.157	250.01	0.0003	P	13.7
5	☐	250.000	282.025	504.46	0.0007	P	2.4
6	☐	500.000	543.345	987.82	0.0013	P	4.0
7	☐	1000.000	968.055	1745.68	0.0024	P	2.8
8	☐			0.00	0.0000	P	

$$y = 2.4796E-006 * x + 1.5593E-006$$

$$R = 0.9979$$

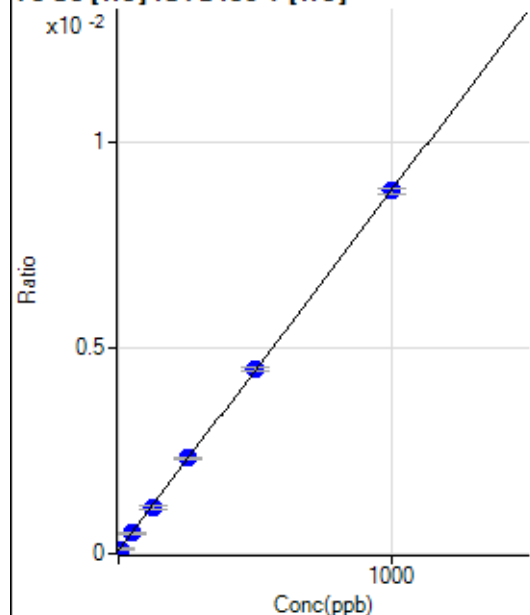
$$DL = 3.268$$

$$BEC = 0.6289$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	57.01	0.0001	P	17.2
2	☐	5.000	3.655	80.68	0.0001	P	12.8
3	☐	50.000	47.459	377.04	0.0005	P	10.7
4	☐	125.000	118.904	825.11	0.0011	P	4.6
5	☐	250.000	255.301	1663.60	0.0023	P	2.5
6	☐	500.000	501.697	3269.05	0.0045	P	2.3
7	☐	1000.000	998.722	6399.77	0.0088	P	1.9
8	☐			48.34	0.0001	P	2.9

$$y = 8.7358E-006 * x + 8.1182E-005$$

$$R = 1.0000$$

$$DL = 4.795$$

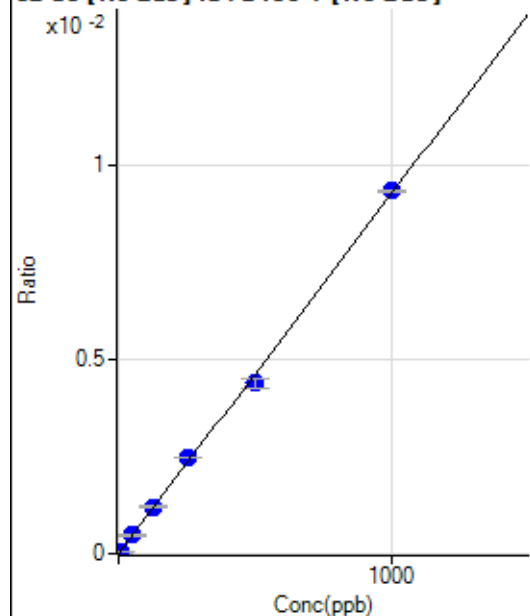
$$BEC = 9.293$$

Weight: <None>

Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			3590.84		P	1.1
2	☐			3447.33		P	0.7
3	☐			3400.59		P	5.3
4	☐			3594.17		P	3.9
5	☐			3260.43		P	4.2
6	☐			3347.19		P	5.8
7	☐			3474.01		P	5.8
8	☐			3821.12		P	0.8

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	-2.14	0.0000	P	-1660.
2	☐	5.000	4.547	261.24	0.0000	P	14.2
3	☐	50.000	52.625	2939.28	0.0005	P	7.5
4	☐	125.000	129.647	7546.09	0.0012	P	2.2
5	☐	250.000	267.088	15502.77	0.0025	P	0.5
6	☐	500.000	473.740	31126.24	0.0044	P	5.6
7	☐	1000.000	1008.148	61711.07	0.0094	P	0.5
8	☐			65.14	0.0000	P	24.5

$$y = 9.2793E-006 * x - 4.2374E-007$$

$$R = 0.9993$$

$$DL = 2.275$$

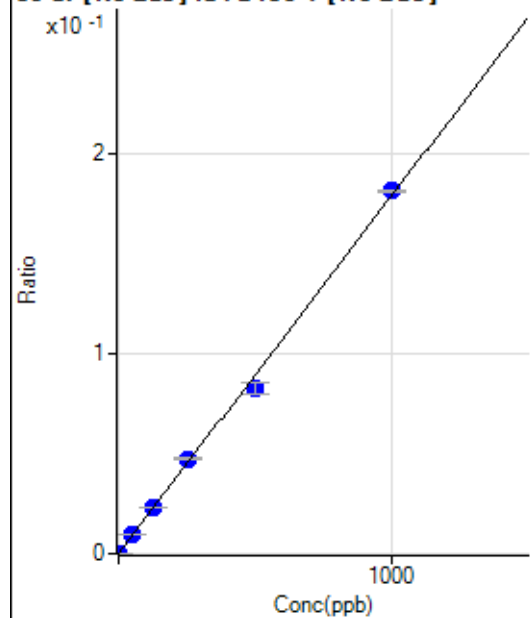
$$BEC = -0.04566$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			362.23		P	8.2
2	☐			384.46		P	15.2
3	☐			383.34		P	13.6
4	☐			346.68		P	15.4
5	☐			377.79		P	16.4
6	☐			350.01		P	15.3
7	☐			364.45		P	10.0
8	☐			334.45		P	5.7

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	586.14	0.0001	P	11.2
2	☐	1.000	0.921	1611.25	0.0003	P	5.7
3	☐	50.000	53.882	58584.45	0.0097	P	6.8
4	☐	125.000	127.991	144113.77	0.0230	P	2.4
5	☐	250.000	263.980	295723.60	0.0473	P	1.3
6	☐	500.000	463.717	587290.20	0.0830	P	6.7
7	☐	1000.000	1014.078	1196224.97	0.1813	P	0.7
8	☐			7010.30	0.0011	P	3.5

$$y = 1.7872E-004 * x + 9.2185E-005$$

$$R = 0.9989$$

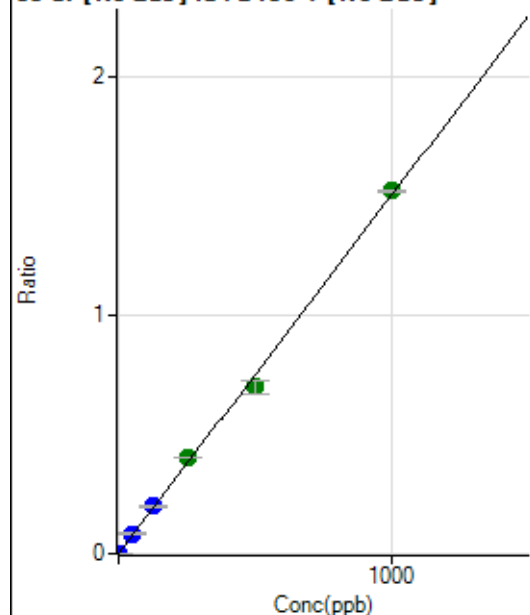
$$DL = 0.1737$$

$$BEC = 0.5158$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	58.33	0.0000	P	28.5
2	☐	1.000	0.930	8808.55	0.0014	P	8.9
3	☐	50.000	54.857	496833.71	0.0824	P	6.6
4	☐	125.000	131.652	1241349.02	0.1978	P	0.9
5	☐	250.000	267.813	2517717.83	0.4025	A	1.5
6	☐	500.000	464.341	4937477.84	0.6978	A	7.8
7	☐	1000.000	1012.302	10035359.16	1.5212	A	0.7
8	☐			55248.83	0.0086	P	1.3

$$y = 0.0015 * x + 9.2386E-006$$

$$R = 0.9989$$

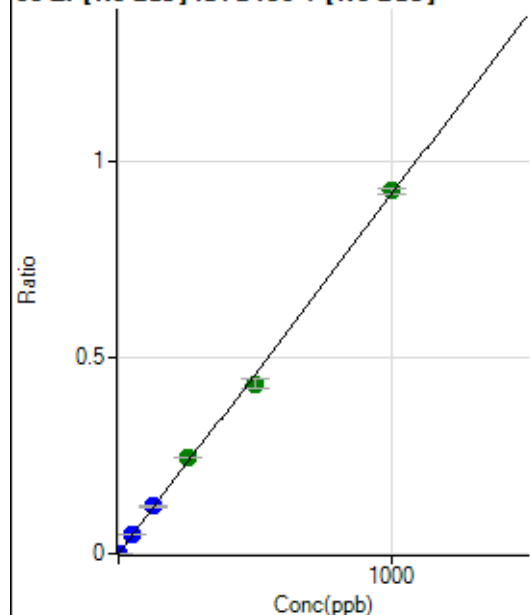
$$DL = 0.005251$$

$$BEC = 0.006148$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	308.35	0.0000	P	20.3
2	☐	1.000	0.926	5645.76	0.0009	P	4.2
3	☐	50.000	54.063	299674.54	0.0497	P	6.2
4	☐	125.000	131.808	760076.77	0.1211	P	2.0
5	☐	250.000	265.532	1526520.96	0.2440	A	0.3
6	☐	500.000	472.305	3073369.38	0.4340	A	5.4
7	☐	1000.000	1008.910	6115051.14	0.9270	A	1.5
8	☐			1636.25	0.0003	P	6.5

$$y = 9.1875E-004 * x + 4.8848E-005$$

$$R = 0.9993$$

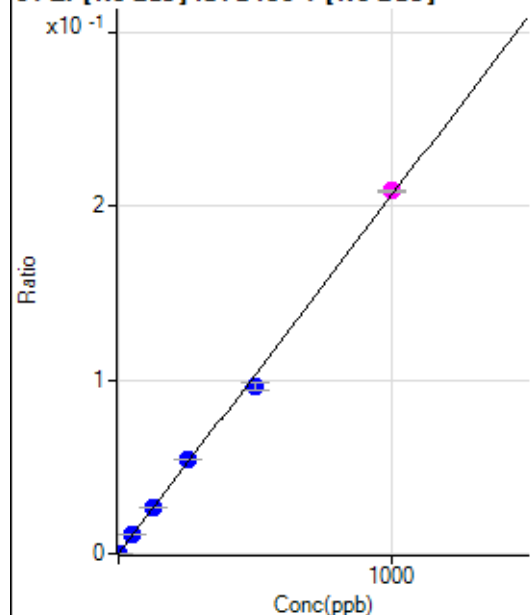
$$DL = 0.03236$$

$$BEC = 0.05317$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	66.67	0.0000	P	41.4
2	☐	1.000	0.840	1152.86	0.0002	P	2.6
3	☐	50.000	53.356	66392.00	0.0110	P	6.1
4	☐	125.000	128.691	166579.27	0.0266	P	1.8
5	☐	250.000	262.164	338315.53	0.0541	P	0.8
6	☐	500.000	466.844	681962.64	0.0963	P	5.2
7	☐	1000.000	1012.908	1378140.71	0.2089	M	0.8
8	☐			377.80	0.0001	P	26.8

$$y = 2.0623\text{E-}004 * x + 1.0363\text{E-}005$$

$$R = 0.9991$$

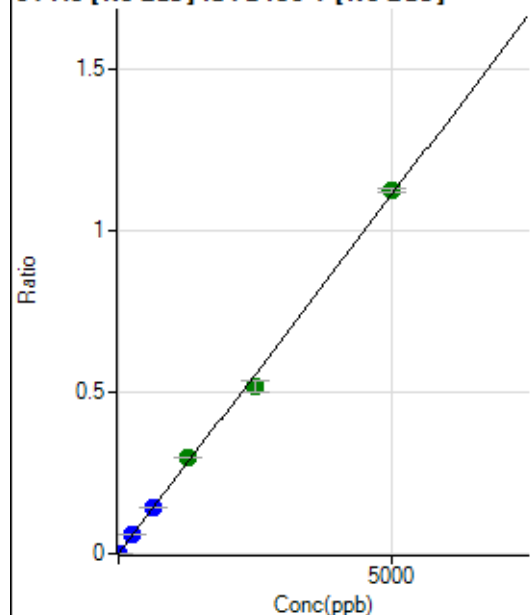
$$DL = 0.06248$$

$$BEC = 0.05025$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	116.67	0.0000	P	38.3
2	☐	5.000	4.716	6662.89	0.0011	P	9.7
3	☐	250.000	269.226	360091.20	0.0597	P	5.6
4	☐	625.000	653.193	908988.16	0.1449	P	0.8
5	☐	1250.000	1336.126	1853823.63	0.2963	A	1.2
6	☐	2500.000	2334.842	3666071.22	0.5178	A	6.1
7	☐	5000.000	5056.562	7398111.97	1.1214	A	1.0
8	☐			2058.55	0.0003	P	8.9

$$y = 2.2177\text{E-}004 * x + 1.8316\text{E-}005$$

$$R = 0.9990$$

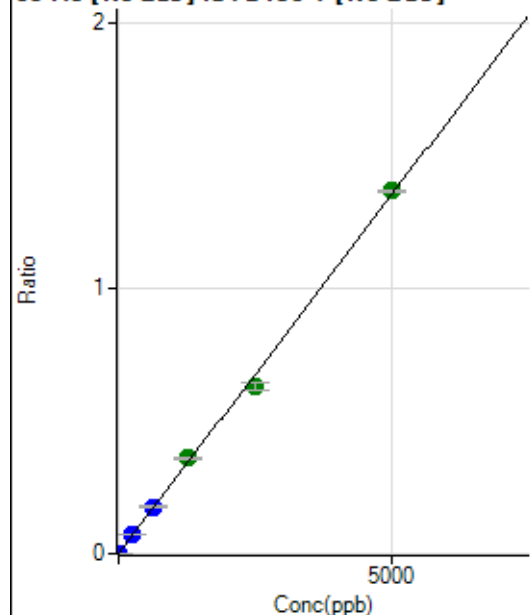
$$DL = 0.09491$$

$$BEC = 0.08259$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	30.56	0.0000	P	35.1
2	☐	5.000	4.734	8077.56	0.0013	P	3.2
3	☐	250.000	269.750	440215.48	0.0731	P	6.8
4	☐	625.000	654.114	1111389.29	0.1771	P	1.8
5	☐	1250.000	1337.405	2265740.91	0.3622	A	1.7
6	☐	2500.000	2332.606	4473403.66	0.6317	A	5.3
7	☐	5000.000	5057.220	9034288.48	1.3695	A	0.8
8	☐			2653.10	0.0004	P	4.2

$$y = 2.7080E-004 * x + 4.8457E-006$$

$$R = 0.9990$$

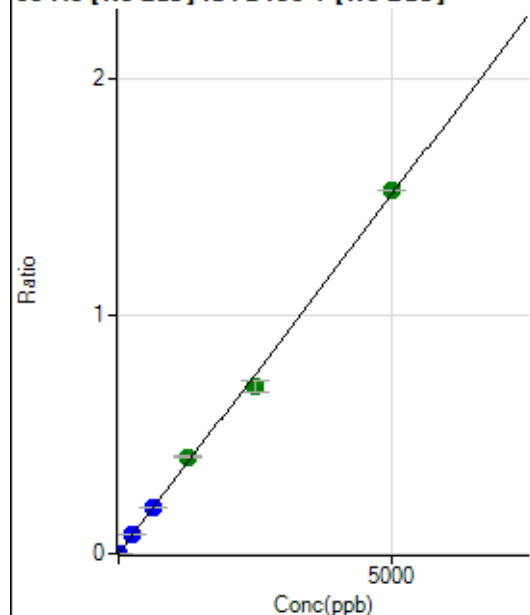
$$DL = 0.01885$$

$$BEC = 0.01789$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	41.67	0.0000	P	62.9
2	☐	5.000	4.530	8616.78	0.0014	P	5.8
3	☐	250.000	264.878	481697.41	0.0800	P	7.4
4	☐	625.000	646.088	1223562.84	0.1950	P	2.0
5	☐	1250.000	1345.201	2539956.76	0.4060	A	1.7
6	☐	2500.000	2333.183	4984505.75	0.7042	A	6.8
7	☐	5000.000	5056.229	10067723.32	1.5261	A	0.1
8	☐			3600.57	0.0006	P	5.3

$$y = 3.0182E-004 * x + 6.7196E-006$$

$$R = 0.9990$$

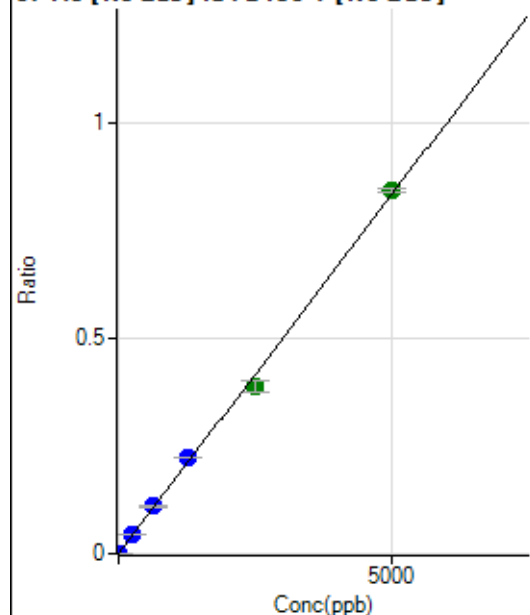
$$DL = 0.04201$$

$$BEC = 0.02226$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	55.56	0.0000	P	22.9
2	☐	5.000	4.556	4800.96	0.0008	P	7.5
3	☐	250.000	271.198	271846.06	0.0451	P	5.8
4	☐	625.000	657.281	685654.53	0.1093	P	1.5
5	☐	1250.000	1342.120	1395945.96	0.2231	P	1.5
6	☐	2500.000	2331.637	2744941.94	0.3876	A	5.8
7	☐	5000.000	5056.057	5545207.24	0.8406	A	1.1
8	☐			1775.16	0.0003	P	4.2

$$y = 1.6625E-004 * x + 8.7293E-006$$

$$R = 0.9990$$

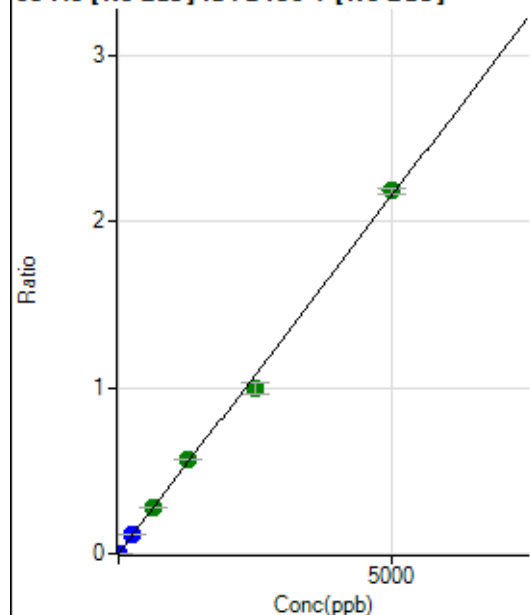
$$DL = 0.03614$$

$$BEC = 0.05251$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	25.00	0.0000	P	115.9
2	☐	5.000	4.515	12202.91	0.0019	P	8.1
3	☐	250.000	269.302	699041.47	0.1160	P	5.9
4	☐	625.000	653.552	1765691.44	0.2814	A	0.7
5	☐	1250.000	1324.295	3567409.80	0.5702	A	0.8
6	☐	2500.000	2312.837	7049089.13	0.9959	A	6.9
7	☐	5000.000	5070.474	14403140.25	2.1833	A	1.3
8	☐			4081.30	0.0006	P	12.3

$$y = 4.3060E-004 * x + 3.7196E-006$$

$$R = 0.9988$$

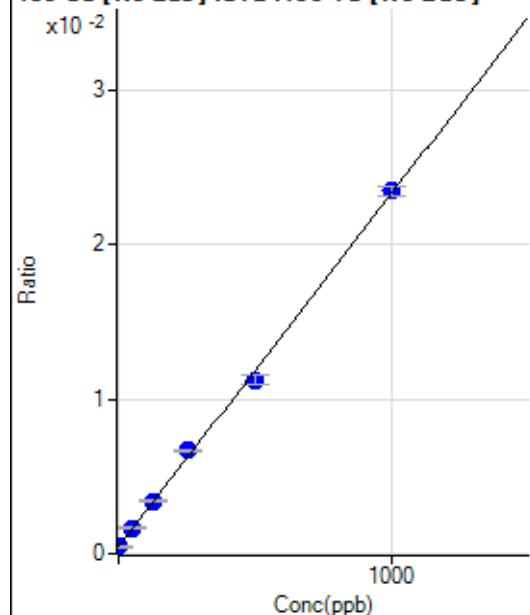
$$DL = 0.03003$$

$$BEC = 0.008638$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	1627.92	0.0004	P	1.2
2	☐	1.000	0.705	1675.15	0.0005	P	10.8
3	☐	50.000	53.874	5826.41	0.0017	P	7.6
4	☐	125.000	129.815	12480.93	0.0034	P	3.0
5	☐	250.000	272.187	23851.76	0.0067	P	2.0
6	☐	500.000	472.101	46470.73	0.0112	P	6.1
7	☐	1000.000	1007.607	91559.11	0.0235	P	2.4
8	☐			1761.27	0.0005	P	6.2

$$y = 2.2856E-005 * x + 4.4399E-004$$

$$R = 0.9992$$

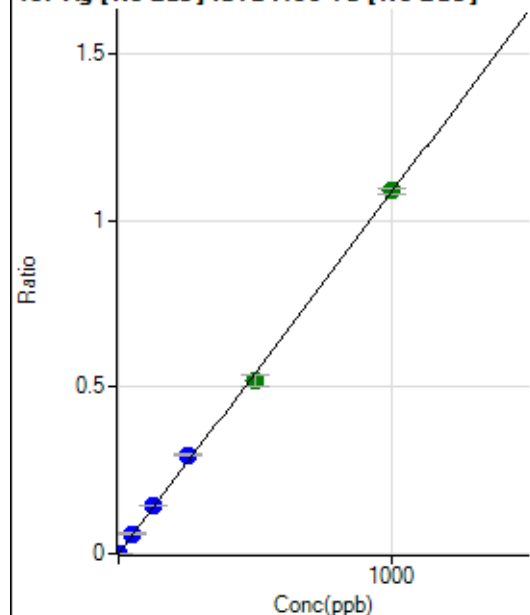
$$DL = 0.6799$$

$$BEC = 19.43$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	22.22	0.0000	P	115.6
2	☐	1.000	0.985	3883.99	0.0011	P	11.0
3	☐	50.000	55.045	207841.41	0.0598	P	7.6
4	☐	125.000	132.235	525354.53	0.1436	P	1.1
5	☐	250.000	273.255	1061587.51	0.2967	P	2.0
6	☐	500.000	478.505	2148374.14	0.5195	A	6.5
7	☐	1000.000	1003.777	4251215.15	1.0898	A	1.3
8	☐			2055.76	0.0005	P	1.3

$$y = 0.0011 * x + 6.3336E-006$$

$$R = 0.9994$$

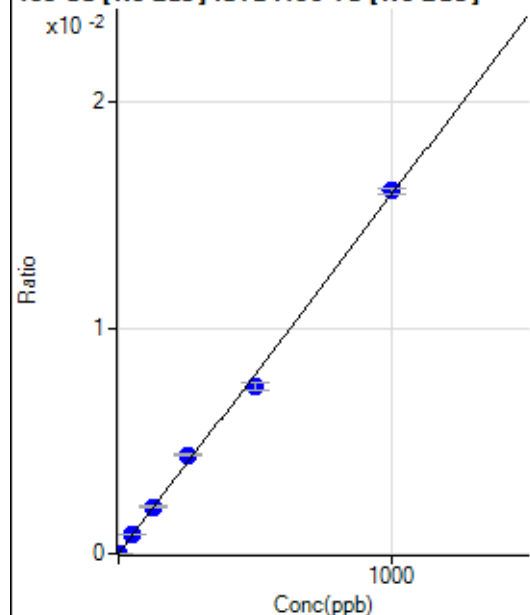
$$DL = 0.02023$$

$$BEC = 0.005834$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	4.17	0.0000	P	96.1
2	☐	1.000	1.261	76.39	0.0000	P	16.5
3	☐	50.000	53.276	2951.74	0.0008	P	6.0
4	☐	125.000	129.627	7543.81	0.0021	P	4.2
5	☐	250.000	275.593	15678.49	0.0044	P	3.6
6	☐	500.000	465.064	30596.47	0.0074	P	5.1
7	☐	1000.000	1010.328	62659.27	0.0161	P	1.8
8	☐			81.95	0.0000	P	29.4

$$y = 1.5898\text{E-}005 * x + 1.1046\text{E-}006$$

$$R = 0.9987$$

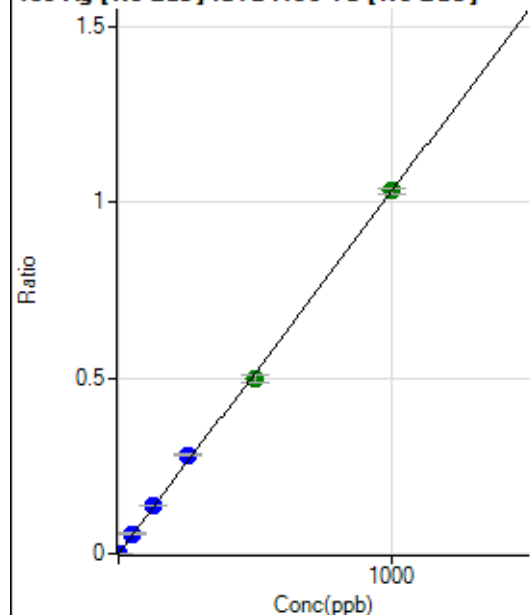
$$DL = 0.2003$$

$$BEC = 0.06948$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	13.89	0.0000	P	92.3
2	☐	1.000	0.960	3595.03	0.0010	P	3.5
3	☐	50.000	55.033	197161.08	0.0567	P	6.2
4	☐	125.000	131.234	494429.37	0.1351	P	0.6
5	☐	250.000	272.492	1003940.18	0.2805	P	1.8
6	☐	500.000	483.174	2058362.72	0.4975	A	4.8
7	☐	1000.000	1001.759	4023467.23	1.0314	A	1.3
8	☐			1991.87	0.0005	P	4.6

$$y = 0.0010 * x + 3.9417\text{E-}006$$

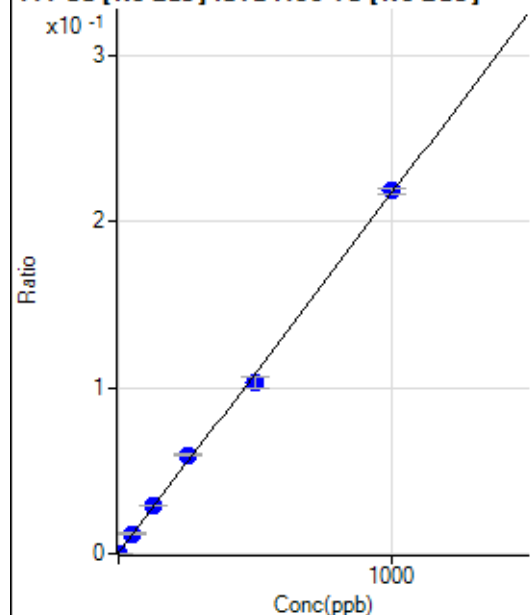
$$R = 0.9995$$

$$DL = 0.01061$$

$$BEC = 0.003829$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	1146.35	0.0003	P	1.6
2	☐	1.000	1.011	1930.28	0.0005	P	4.0
3	☐	50.000	54.088	41854.64	0.0120	P	6.9
4	☐	125.000	129.975	104184.68	0.0285	P	0.6
5	☐	250.000	272.680	212524.67	0.0594	P	2.1
6	☐	500.000	473.488	425475.66	0.1029	P	7.0
7	☐	1000.000	1006.760	852151.60	0.2184	P	1.4
8	☐			1499.15	0.0004	P	5.8

$$y = 2.1667\text{E-}004 * x + 3.1268\text{E-}004$$

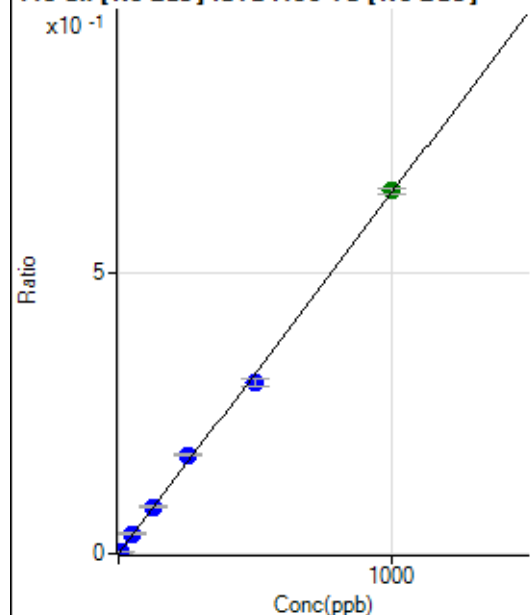
$$R = 0.9992$$

$$DL = 0.06943$$

$$BEC = 1.443$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	277.79	0.0001	P	3.6
2	☐	5.000	4.796	11416.16	0.0032	P	8.3
3	☐	50.000	54.829	122794.99	0.0353	P	6.1
4	☐	125.000	130.231	306356.03	0.0837	P	1.2
5	☐	250.000	273.618	629039.94	0.1758	P	2.7
6	☐	500.000	474.493	1260957.89	0.3048	P	5.6
7	☐	1000.000	1005.955	2520614.47	0.6462	A	1.3
8	☐			488.91	0.0001	P	13.0

$$y = 6.4225\text{E-}004 * x + 7.5813\text{E-}005$$

$$R = 0.9992$$

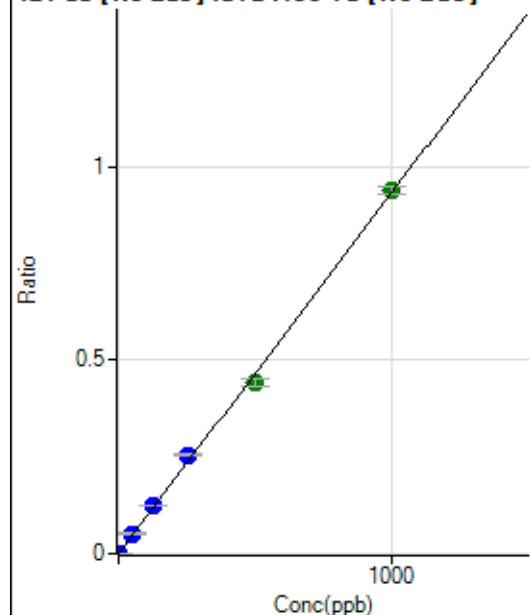
$$DL = 0.01264$$

$$BEC = 0.118$$

Weight: <None>

Min Conc: 0

121 Sb [No Gas] ISTD :159 Tb [No Gas]



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	25.00	0.0000	P	36.4
2	☐	2.000	1.889	6398.88	0.0018	P	7.4
3	☐	50.000	54.393	176492.47	0.0507	P	6.8
4	☐	125.000	131.745	449617.25	0.1229	P	0.5
5	☐	250.000	273.884	914022.99	0.2554	P	2.2
6	☐	500.000	473.568	1827452.67	0.4417	A	4.9
7	☐	1000.000	1006.183	3660581.98	0.9384	A	1.9
8	☐			2325.26	0.0006	P	6.5

$$y = 9.3260\text{E-}004 * x + 6.8564\text{E-}006$$

$$R = 0.9992$$

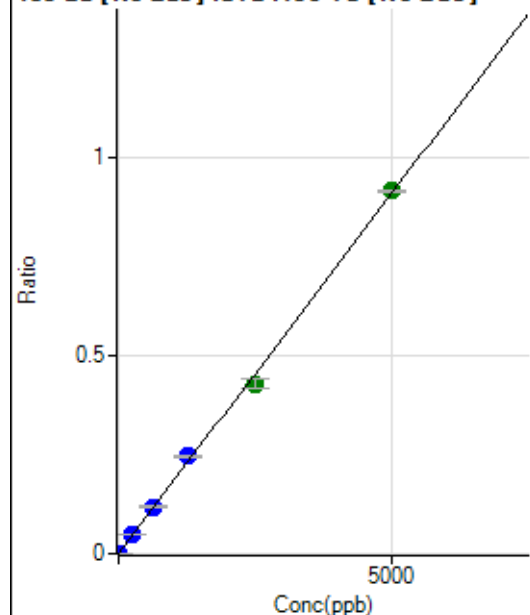
$$DL = 0.008032$$

$$BEC = 0.007352$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	2.78	0.0000	P	173.2
2	☐	10.000	9.257	6082.07	0.0017	P	7.6
3	☐	250.000	268.594	169661.47	0.0488	P	5.8
4	☐	625.000	653.698	434127.71	0.1187	P	1.2
5	☐	1250.000	1350.590	877251.07	0.2451	P	1.7
6	☐	2500.000	2363.027	1773754.73	0.4289	A	6.5
7	☐	5000.000	5038.823	3567937.27	0.9146	A	0.8
8	☐			6143.22	0.0016	P	2.7

$$y = 1.8151\text{E-}004 * x + 7.0562\text{E-}007$$

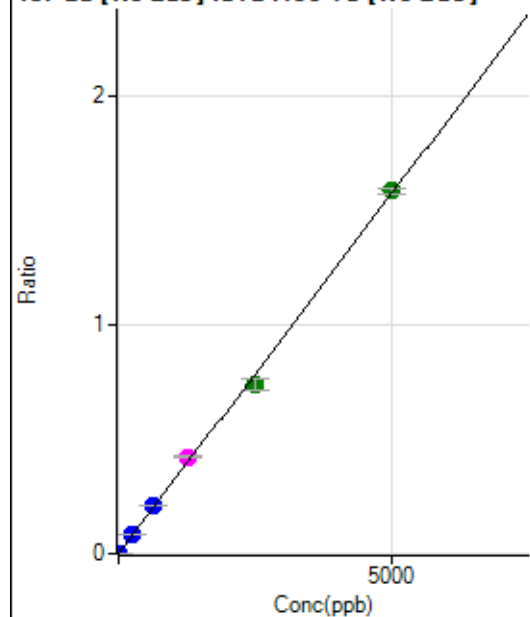
$$R = 0.9992$$

$$DL = 0.0202$$

$$BEC = 0.003887$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	8.33	0.0000	P	6.3
2	☐	10.000	9.553	10896.35	0.0030	P	5.2
3	☐	250.000	268.633	293996.91	0.0845	P	7.3
4	☐	625.000	660.862	760903.57	0.2080	P	0.7
5	☐	1250.000	1349.629	1519567.32	0.4247	M	2.6
6	☐	2500.000	2354.712	3064067.54	0.7410	A	6.7
7	☐	5000.000	5042.323	6189546.80	1.5867	A	1.4
8	☐			11102.04	0.0029	P	2.5

$$y = 3.1468E-004 * x + 2.2771E-006$$

$$R = 0.9991$$

$$DL = 0.001361$$

$$BEC = 0.007236$$

Weight: <None>

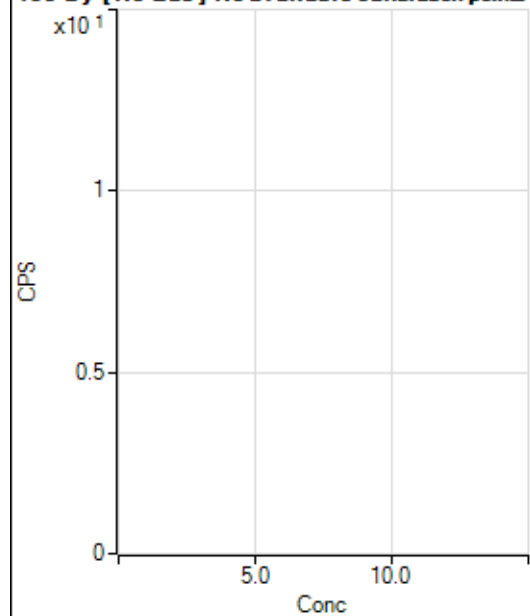
Min Conc: 0

150 Nd [No Gas] No available calibration points

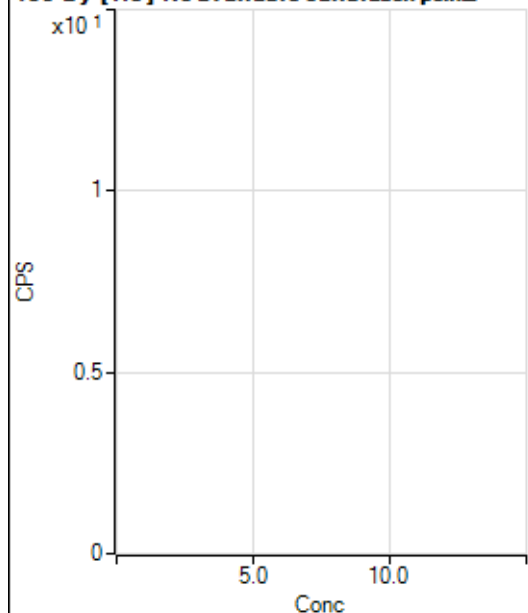
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			0.00		P	
2	☐			6.67		P	100.0
3	☐			20.00		P	88.2
4	☐			13.33		P	50.0
5	☐			35.56		P	60.3
6	☐			86.67		P	46.2
7	☐			128.89		P	23.3
8	☐			15.56		P	65.5

150 Nd [He] No available calibration points

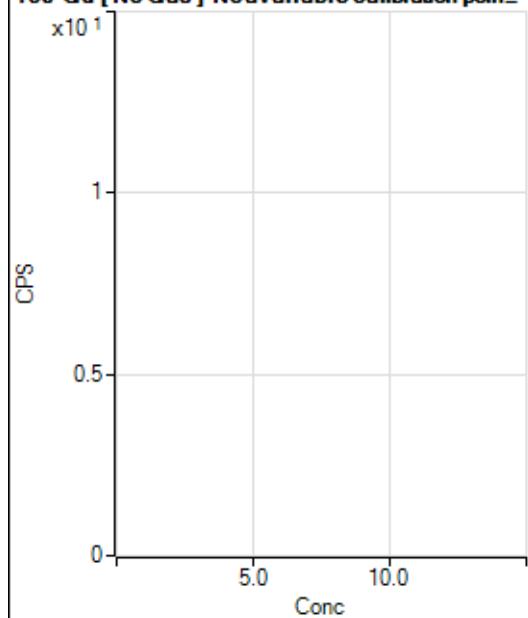
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			1.11		P	173.2
2	☐			0.00		P	
3	☐			5.56		P	91.6
4	☐			4.44		P	114.6
5	☐			4.44		P	43.4
6	☐			4.45		P	86.6
7	☐			15.55		P	24.8
8	☐			3.33		P	100.1

156 Dy [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			16.67		P	NaN
2	☐			13.89		P	34.7
3	☐			0.00		P	
4	☐			16.67		P	100.0
5	☐			27.78		P	45.8
6	☐			33.33		P	25.0
7	☐			94.45		P	28.4
8	☐			191.67		P	15.7

156 Dy [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			1.11		P	173.2
2	☐			2.22		P	173.2
3	☐			7.78		P	65.5
4	☐			4.44		P	43.4
5	☐			11.11		P	75.5
6	☐			14.44		P	70.5
7	☐			34.44		P	5.6
8	☐			92.22		P	21.8

160 Gd [No Gas] Noavailable calibration poin_

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			25.00		P	33.3
2	☐			30.56		P	31.5
3	☐			44.44		P	114.6
4	☐			44.44		P	28.6
5	☐			63.89		P	39.8
6	☐			75.00		P	29.4
7	☐			61.11		P	7.9
8	☐			230.56		P	15.0

160 Gd [He] No available calibration points

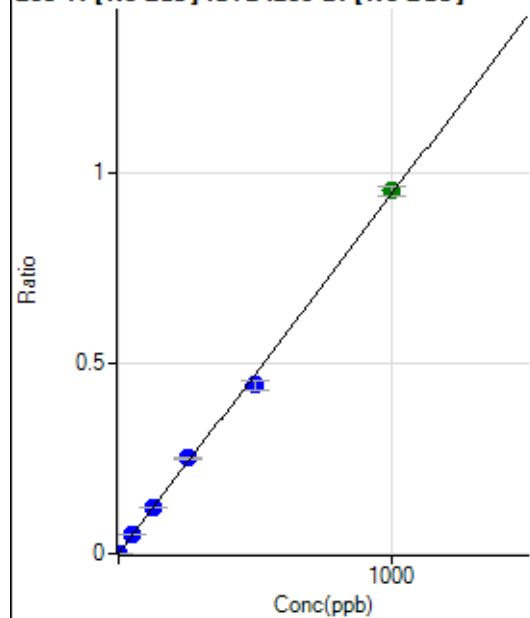
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			14.44		P	13.4
2	☐			11.11		P	45.8
3	☐			11.11		P	45.8
4	☐			24.45		P	28.4
5	☐			16.67		P	60.0
6	☐			23.33		P	14.3
7	☐			44.44		P	22.9
8	☐			134.45		P	10.3

164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			27.78		P	45.8
2	☐			25.00		P	33.3
3	☐			22.22		P	108.3
4	☐			13.89		P	124.9
5	☐			19.45		P	24.7
6	☐			27.78		P	45.8
7	☐			16.67		P	132.3
8	☐			44.44		P	21.7

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			10.00		P	100.0
2	☐			7.78		P	49.5
3	☐			5.56		P	34.7
4	☐			11.11		P	45.8
5	☐			11.11		P	34.6
6	☐			13.33		P	25.0
7	☐			12.22		P	15.7
8	☐			20.00		P	16.7

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	22.22	0.0000	P	47.7
2	☐	1.000	0.878	1441.79	0.0008	P	8.4
3	☐	50.000	53.821	82970.19	0.0507	P	6.3
4	☐	125.000	129.656	208815.52	0.1221	P	2.0
5	☐	250.000	265.743	428753.46	0.2503	P	1.3
6	☐	500.000	470.811	876895.76	0.4434	P	5.8
7	☐	1000.000	1009.886	1778125.24	0.9510	A	2.9
8	☐			797.27	0.0005	P	13.3

$$y = 9.4165E-004 * x + 1.3119E-005$$

$$R = 0.9992$$

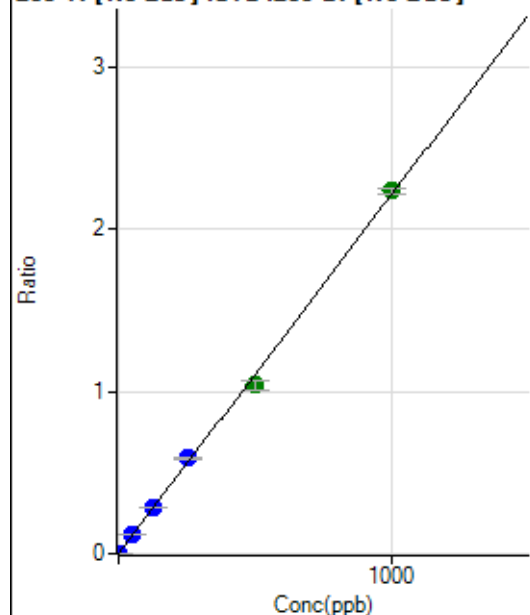
$$DL = 0.01995$$

$$BEC = 0.01393$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	44.44	0.0000	P	19.3
2	☐	1.000	0.887	3417.22	0.0020	P	6.7
3	☐	50.000	53.520	193997.18	0.1185	P	4.9
4	☐	125.000	129.285	489332.33	0.2861	P	1.2
5	☐	250.000	266.976	1012245.82	0.5908	P	1.5
6	☐	500.000	469.152	2053639.93	1.0382	A	5.4
7	☐	1000.000	1010.469	4181521.36	2.2361	A	1.3
8	☐			1747.38	0.0010	P	10.4

$$y = 0.0022 * x + 2.5804E-005$$

$$R = 0.9991$$

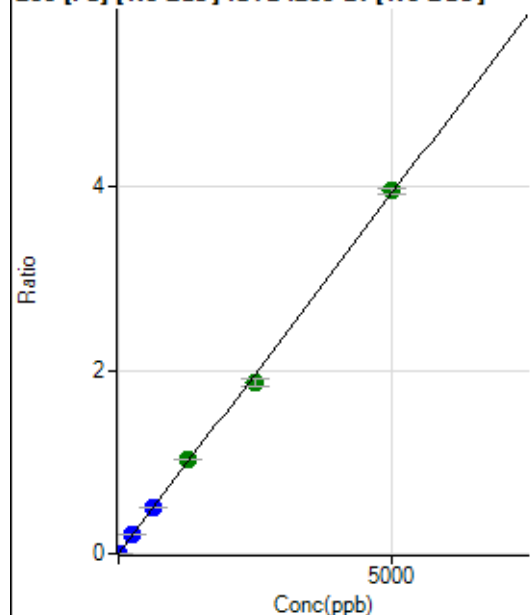
$$DL = 0.006769$$

$$BEC = 0.01166$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	146.30	0.0001	P	10.8
2	☐	1.000	0.864	1313.05	0.0008	P	2.7
3	☐	250.000	266.271	341810.31	0.2088	P	5.5
4	☐	625.000	643.028	862058.40	0.5040	P	0.4
5	☐	1250.000	1321.659	1775014.48	1.0359	A	0.1
6	☐	2500.000	2375.125	3682701.04	1.8615	A	5.0
7	☐	5000.000	5041.456	7388716.25	3.9512	A	1.5
8	☐			2548.44	0.0015	P	8.0

$$y = 7.8373E-004 * x + 8.5577E-005$$

$$R = 0.9994$$

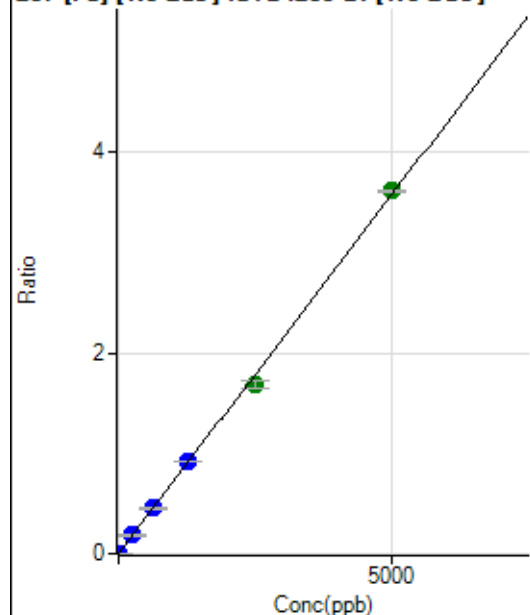
$$DL = 0.03523$$

$$BEC = 0.1092$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	125.93	0.0001	P	3.6
2	☐	1.000	0.836	1155.63	0.0007	P	3.9
3	☐	250.000	261.151	305892.31	0.1869	P	7.0
4	☐	625.000	630.026	771106.63	0.4509	P	1.4
5	☐	1250.000	1292.502	1584964.87	0.9250	P	0.7
6	☐	2500.000	2361.084	3342026.14	1.6896	A	5.5
7	☐	5000.000	5057.647	6767878.68	3.6192	A	0.7
8	☐			2172.44	0.0013	P	5.7

$$y = 7.1557\text{E-}004 * x + 7.3245\text{E-}005$$

$$R = 0.9994$$

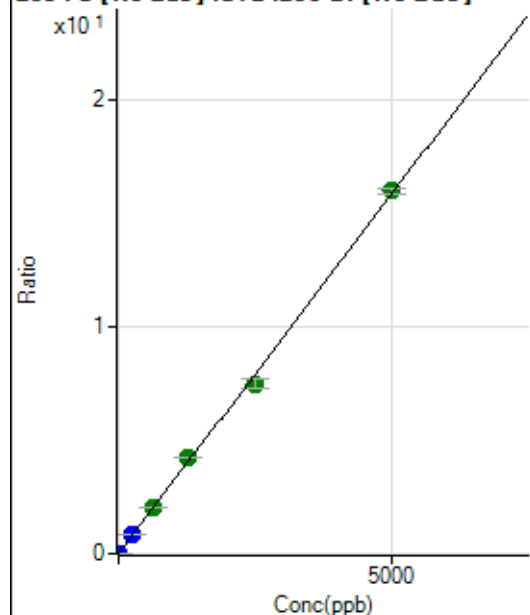
$$DL = 0.01099$$

$$BEC = 0.1024$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	531.49	0.0003	P	8.4
2	☐	1.000	0.844	5133.83	0.0030	P	5.8
3	☐	250.000	263.372	1367214.40	0.8355	P	6.7
4	☐	625.000	646.206	3505006.99	2.0495	A	0.8
5	☐	1250.000	1329.857	7226294.42	4.2174	A	0.3
6	☐	2500.000	2361.804	14814220.59	7.4897	A	5.6
7	☐	5000.000	5045.814	29923088.00	16.0009	A	1.3
8	☐			9658.95	0.0056	P	3.2

$$y = 0.0032 * x + 3.1033\text{E-}004$$

$$R = 0.9993$$

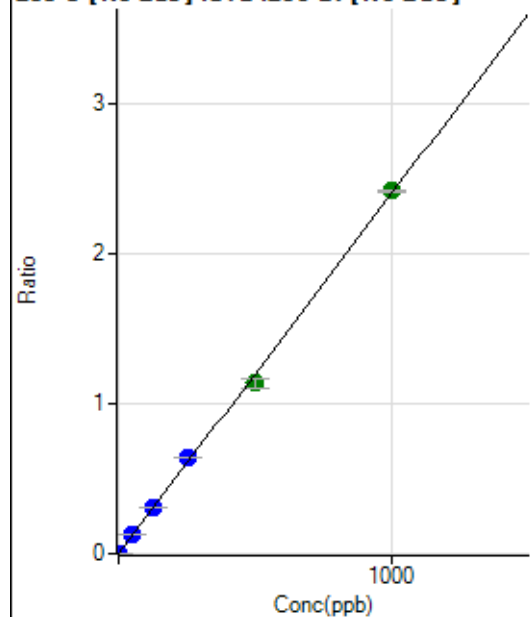
$$DL = 0.02457$$

$$BEC = 0.09786$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	11.11	0.0000	P	86.6
2	☐	1.000	0.862	3556.15	0.0021	P	8.6
3	☐	50.000	52.561	206083.70	0.1259	P	5.1
4	☐	125.000	128.342	525570.65	0.3073	P	0.9
5	☐	250.000	267.227	1096354.58	0.6399	P	1.2
6	☐	500.000	473.844	2243830.67	1.1346	A	6.1
7	☐	1000.000	1008.226	4514589.86	2.4141	A	0.7
8	☐			355.57	0.0002	P	7.5

$$y = 0.0024 * x + 6.7332E-006$$

$$R = 0.9993$$

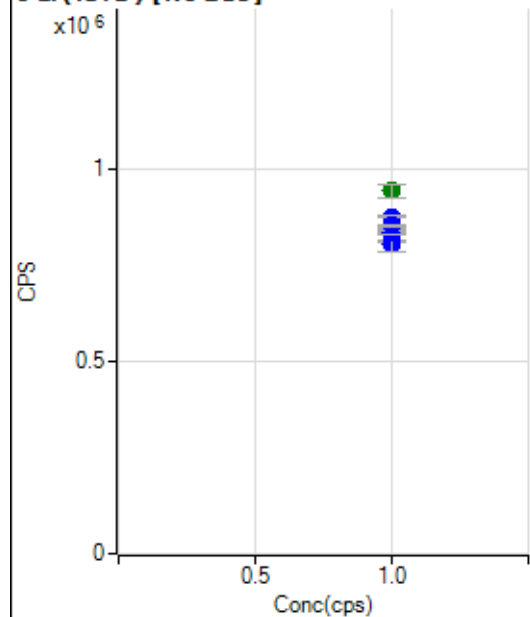
$$DL = 0.007306$$

$$BEC = 0.002812$$

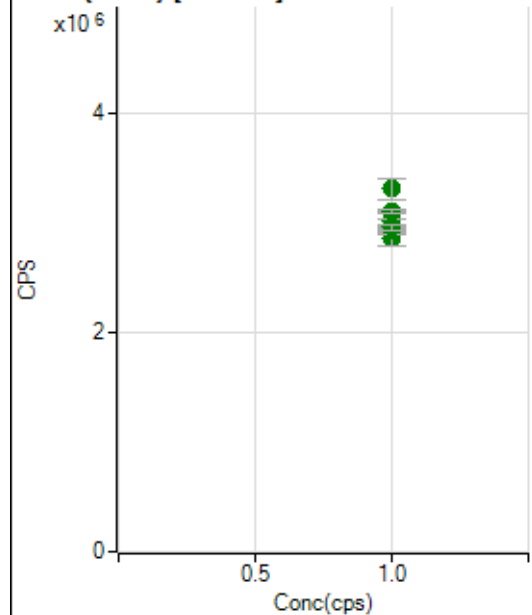
Weight: <None>

Min Conc: 0

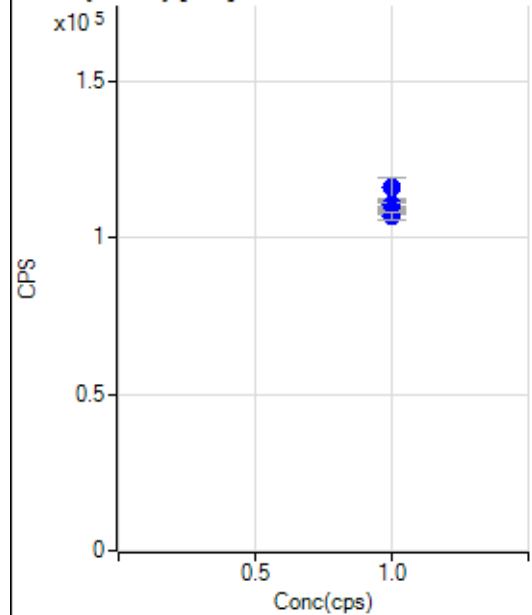
6 Li (ISTD) [No Gas]



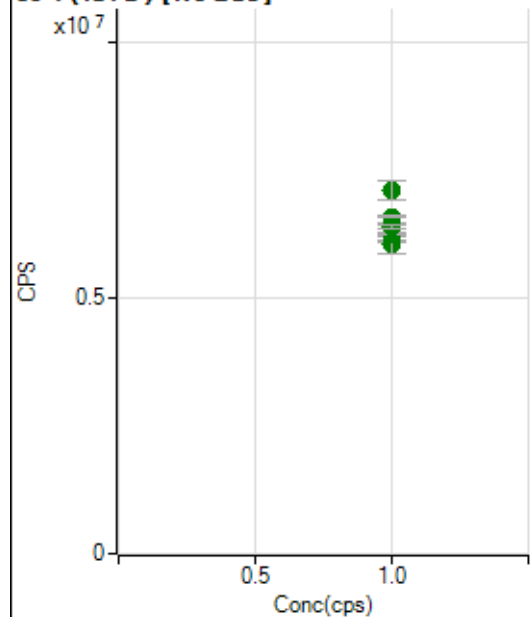
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		832252.42		P	4.2
2	☐	1.000		828033.16		P	4.2
3	☐	1.000		806044.71		P	5.6
4	☐	1.000		838338.50		P	0.8
5	☐	1.000		833434.38		P	1.0
6	☐	1.000		942259.60		A	4.0
7	☐	1.000		875775.63		P	0.3
8	☐	1.000		853027.48		P	0.6

45 Sc (ISTD) [No Gas]

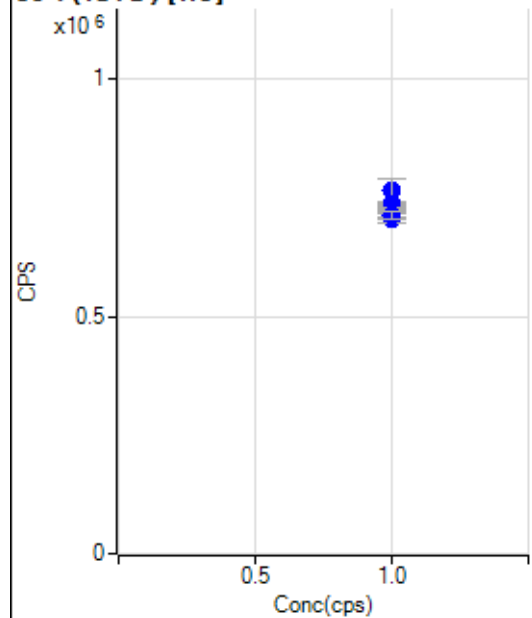
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		3006667.18		A	6.3
2	☐	1.000		2958613.12		A	4.6
3	☐	1.000		2851412.98		A	4.0
4	☐	1.000		2970706.97		A	0.3
5	☐	1.000		2921268.74		A	1.6
6	☐	1.000		3306638.04		A	6.1
7	☐	1.000		3095826.48		A	1.0
8	☐	1.000		2957811.48		A	1.5

45 Sc (ISTD) [He]

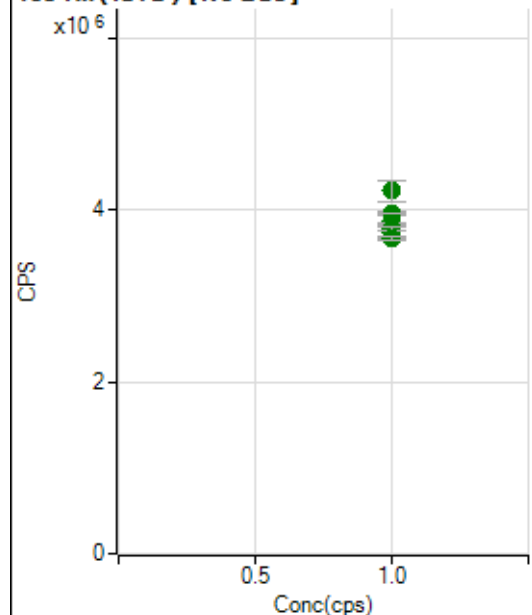
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		108009.11		P	1.0
2	☐	1.000		108922.34		P	0.2
3	☐	1.000		116035.32		P	6.1
4	☐	1.000		110641.88		P	1.9
5	☐	1.000		108656.15		P	0.1
6	☐	1.000		110789.55		P	1.0
7	☐	1.000		108665.93		P	0.2
8	☐	1.000		106856.11		P	2.4

89 Y (ISTD) [No Gas]

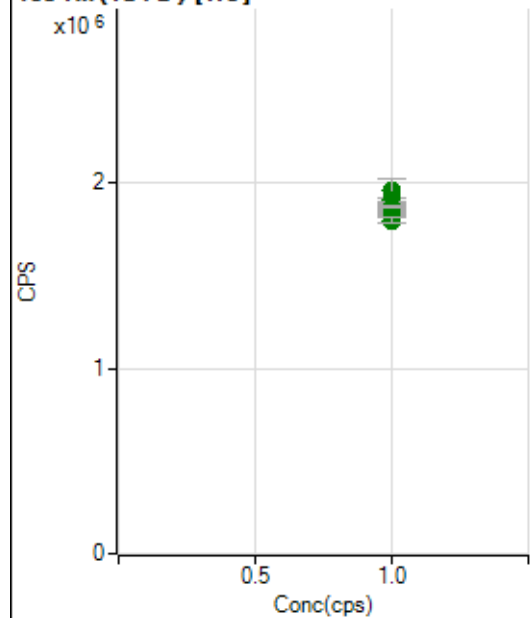
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		6366676.43		A	7.4
2	☐	1.000		6285301.16		A	6.3
3	☐	1.000		6041492.41		A	5.7
4	☐	1.000		6274359.98		A	0.6
5	☐	1.000		6256155.81		A	0.5
6	☐	1.000		7095561.49		A	5.4
7	☐	1.000		6597090.39		A	0.7
8	☐	1.000		6406134.42		A	1.2

89 Y (ISTD) [He]

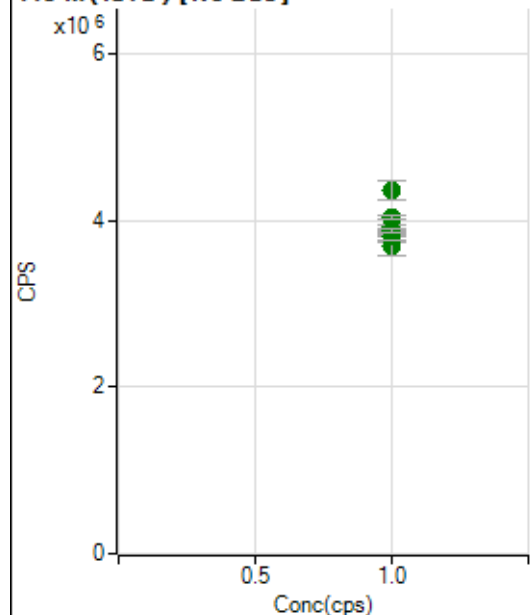
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		703750.61		P	1.9
2	☐	1.000		713749.61		P	1.0
3	☐	1.000		763855.54		P	6.7
4	☐	1.000		736878.87		P	0.5
5	☐	1.000		719744.56		P	0.5
6	☐	1.000		732337.36		P	0.1
7	☐	1.000		726786.25		P	0.3
8	☐	1.000		711934.45		P	2.4

103 Rh (ISTD) [No Gas]

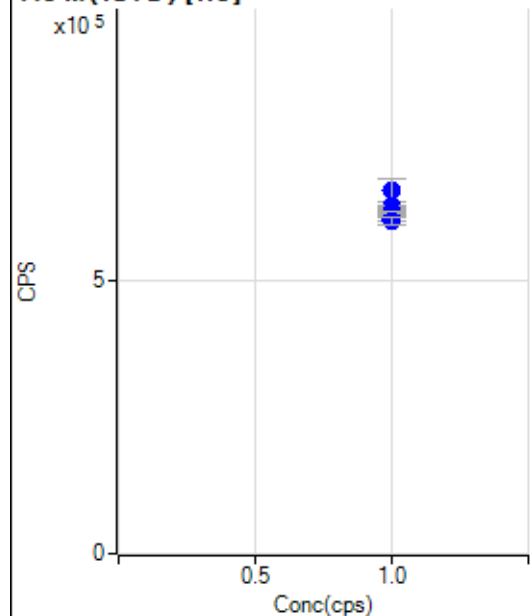
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		3873717.27		A	6.1
2	☐	1.000		3850789.28		A	4.2
3	☐	1.000		3744367.36		A	4.5
4	☐	1.000		3832272.09		A	0.5
5	☐	1.000		3775440.02		A	1.2
6	☐	1.000		4223288.59		A	5.8
7	☐	1.000		3956822.05		A	0.1
8	☐	1.000		3662210.15		A	1.3

103 Rh (ISTD) [He]

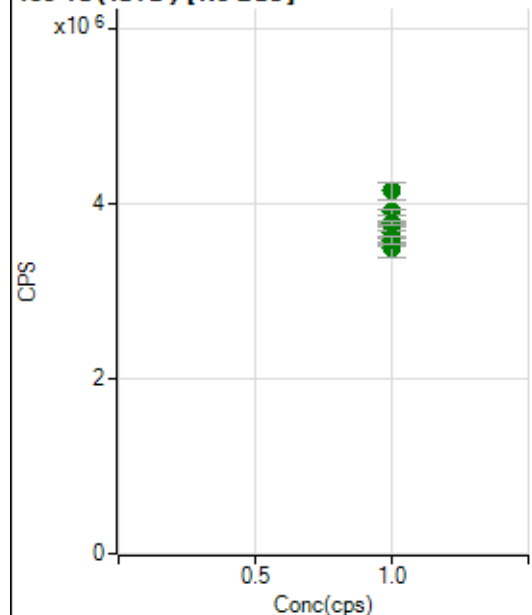
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		1846198.48		A	2.1
2	☐	1.000		1851707.25		A	1.1
3	☐	1.000		1958968.41		A	6.2
4	☐	1.000		1913369.03		A	1.2
5	☐	1.000		1856659.10		A	0.7
6	☐	1.000		1897845.37		A	0.5
7	☐	1.000		1871969.99		A	0.3
8	☐	1.000		1799350.96		A	1.4

115 In (ISTD) [No Gas]

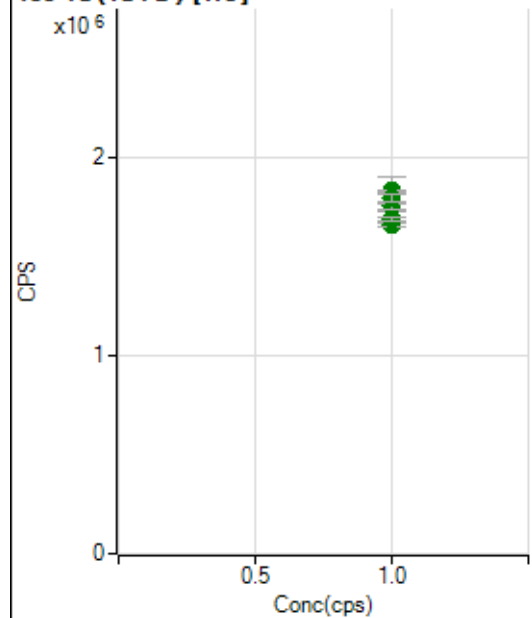
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		3927219.18		A	6.4
2	☐	1.000		3875496.80		A	6.6
3	☐	1.000		3688571.76		A	5.8
4	☐	1.000		3914651.42		A	1.9
5	☐	1.000		3802558.51		A	1.9
6	☐	1.000		4351021.93		A	5.2
7	☐	1.000		4032887.96		A	1.5
8	☐	1.000		3873326.17		A	0.8

115 In (ISTD) [He]

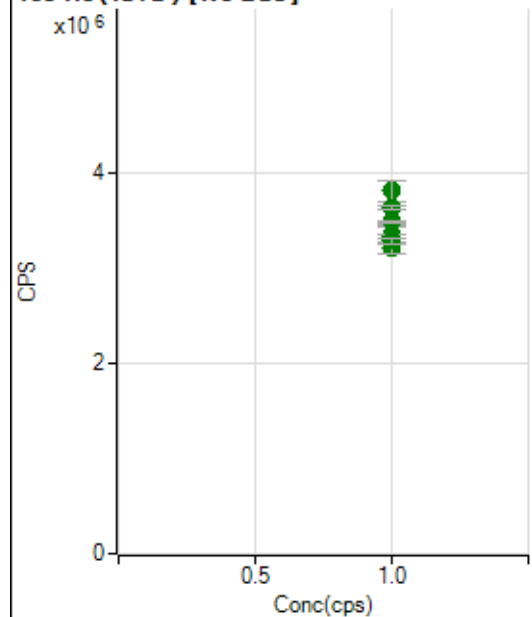
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		611792.19		P	1.2
2	☐	1.000		617221.02		P	0.5
3	☐	1.000		662538.94		P	6.3
4	☐	1.000		635336.54		P	0.3
5	☐	1.000		626925.54		P	0.6
6	☐	1.000		633640.20		P	0.9
7	☐	1.000		623704.16		P	0.3
8	☐	1.000		607793.07		P	2.0

159 Tb (ISTD) [No Gas]

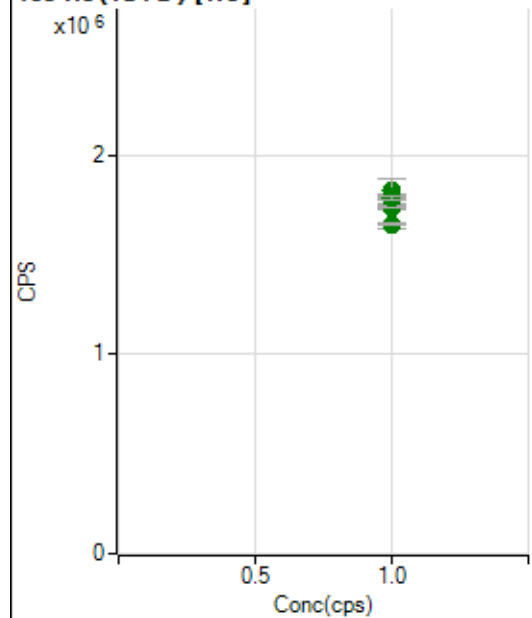
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		3668126.86		A	6.5
2	☐	1.000		3629302.38		A	6.4
3	☐	1.000		3488039.11		A	6.0
4	☐	1.000		3659084.63		A	1.4
5	☐	1.000		3579356.72		A	2.2
6	☐	1.000		4144589.80		A	5.1
7	☐	1.000		3901344.53		A	1.4
8	☐	1.000		3780148.48		A	1.4

159 Tb (ISTD) [He]

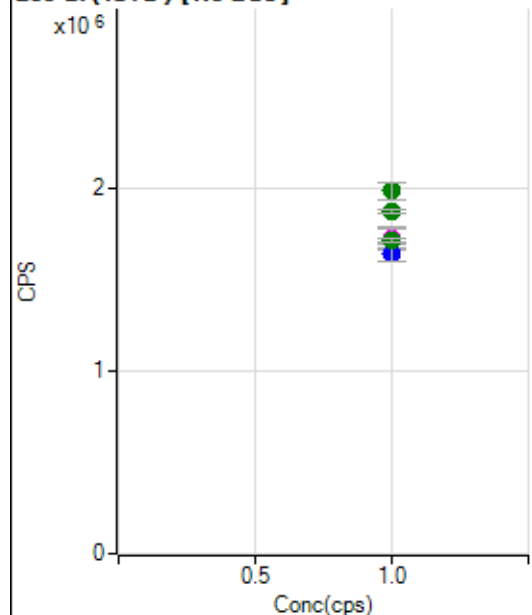
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		1659620.37		A	1.1
2	☐	1.000		1686272.75		A	1.2
3	☐	1.000		1813162.18		A	9.4
4	☐	1.000		1766636.71		A	0.8
5	☐	1.000		1750966.81		A	1.5
6	☐	1.000		1823202.20		A	0.4
7	☐	1.000		1828735.37		A	0.4
8	☐	1.000		1797676.57		A	2.2

165 Ho (ISTD) [No Gas]

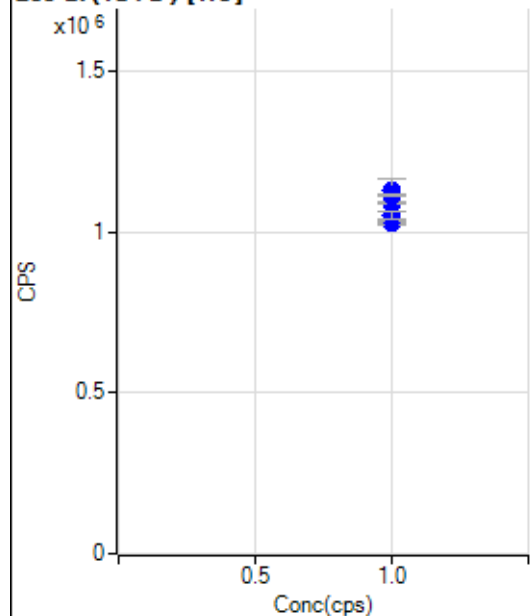
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		3352524.79		A	6.5
2	☐	1.000		3336931.85		A	5.5
3	☐	1.000		3216155.71		A	3.7
4	☐	1.000		3357690.44		A	0.4
5	☐	1.000		3289733.67		A	1.9
6	☐	1.000		3812491.84		A	5.7
7	☐	1.000		3633197.34		A	0.9
8	☐	1.000		3489427.29		A	0.8

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		1647093.81		A	1.9
2	☐	1.000		1653868.24		A	0.8
3	☐	1.000		1822047.49		A	7.2
4	☐	1.000		1738965.98		A	1.1
5	☐	1.000		1741540.51		A	0.3
6	☐	1.000		1797076.26		A	1.3
7	☐	1.000		1794551.76		A	1.5
8	☐	1.000		1784787.54		A	1.0

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		1717918.88		M	6.8
2	☐	1.000		1723603.90		M	6.6
3	☐	1.000		1640668.19		P	5.8
4	☐	1.000		1710289.45		A	1.0
5	☐	1.000		1713470.67		M	1.2
6	☐	1.000		1981487.16		A	4.8
7	☐	1.000		1870080.44		A	0.9
8	☐	1.000		1710359.78		A	1.1

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		1026862.99		P	1.0
2	☐	1.000		1039200.09		P	0.7
3	☐	1.000		1129540.50		P	7.1
4	☐	1.000		1090122.89		P	0.2
5	☐	1.000		1091155.40		P	0.6
6	☐	1.000		1117442.74		P	0.8
7	☐	1.000		1114611.88		P	0.6
8	☐	1.000		1051891.76		P	2.1

US EPA Tune Check Report

Operator Name Jaswal
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\P8072320 MS.b
Acq. Date-Time 2020-07-23 10:38:12
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		2159	21591.31			0.888	5.000
24		25936	259355.71			0.922	5.000
25		3482	34817.83			0.917	5.000
26		4103	41027.30			1.227	5.000
59		17100	171004.61			0.699	5.000
113		2310	23104.79			0.550	5.000
115		6913	69133.69			0.807	5.000
206		1695	16952.38			0.981	5.000
207		1418	14182.52			0.686	5.000
208		3497	34970.69			1.163	5.000
220		1	11.40			12.937	

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

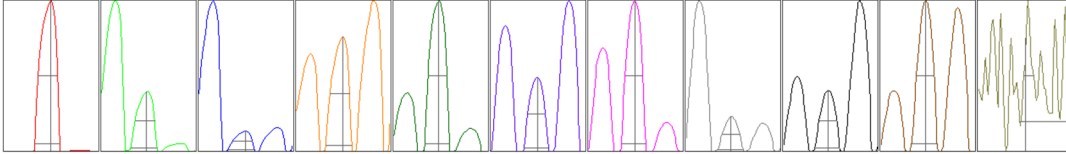
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	2172	2155	2168	2173	2127
24	26263	25728	26063	25937	25687
25	3531	3452	3487	3485	3455
26	4157	4105	4103	4127	4022
59	17208	16956	17190	17161	16987
113	2312	2318	2318	2316	2288
115	6902	6924	6948	6969	6824
206	1697	1721	1689	1695	1675
207	1419	1426	1421	1424	1402
208	3469	3555	3449	3512	3500

US EPA Tune Check Report

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

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	3696.29	9.00	8.90 - 9.10	
24	44646.87	23.95	23.90 - 24.10	
25	5896.54	25.00	24.90 - 25.10	
26	6961.60	26.00	25.90 - 26.10	
59	29833.47	58.95	58.90 - 59.10	
113	4374.05	113.00	112.90 - 113.10	
115	12964.21	115.00	114.90 - 115.10	
206	3183.41	205.95	205.90 - 206.10	
207	2610.38	206.95	206.90 - 207.10	
208	6474.34	207.95	207.90 - 208.10	
220	1.40	220.05	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.62	0.786	0.900	
24	0.63	0.828	0.900	
25	0.62	0.832	0.900	
26	0.62	0.827	0.900	
59	0.60	0.783	0.900	
113	0.55	0.773	0.900	
115	0.55	0.773	0.900	
206	0.55	0.803	0.900	
207	0.56	0.784	0.900	
208	0.56	0.799	0.900	
220	0.32	1.519		

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode HMI Nebulizer Gas 0.51 L/min Dilution Gas 0.45 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	8.8 V	Deflect	13.8 V
Extract 2	-215.0 V	Cell Entrance	-30 V	Plate Bias	-50 V
Omega Bias	-110 V	Cell Exit	-50 V		

Cell Parameters

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

QP Parameters

Mass Gain	123	Axis Gain	0.9992	QP Bias	-4.0 V
Mass Offset	123	Axis Offset	-0.03		

Hardware Settings

Torch

Torch H	0.3 mm	Torch V	-0.2 mm
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EM

Discriminator	4.0 mV	Analog HV	2167 V	Pulse HV	1258 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		4334	43343.22			3.483	
89		7525	75247.51			3.289	
205		4951	49511.16			2.338	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	4300	4430	4085	4449	4408
89	7480	7736	7114	7658	7635
205	4891	5070	4796	5059	4940

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	HMI	Nebulizer Gas	0.51 L/min	Dilution Gas	0.45 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	8.8 V	Deflect	4.4 V
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US EPA Tune Check Report

Extract 2	-215.0 V	Cell Entrance	-50 V	Plate Bias	-60 V
Omega Bias	-110 V	Cell Exit	-70 V		
Cell Parameters					
Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	4.5 mL/min	OctP Bias	-18.0 V		
H2 Flow	---	OctP RF	200 V		
QP Parameters					
Mass Gain	123	Axis Gain	0.9992	QP Bias	-13.0 V
Mass Offset	123	Axis Offset	-0.03		
Hardware Settings					
Torch					
Torch H	0.3 mm	Torch V	-0.2 mm		
EM					
Discriminator	4.0 mV	Analog HV	2167 V	Pulse HV	1258 V