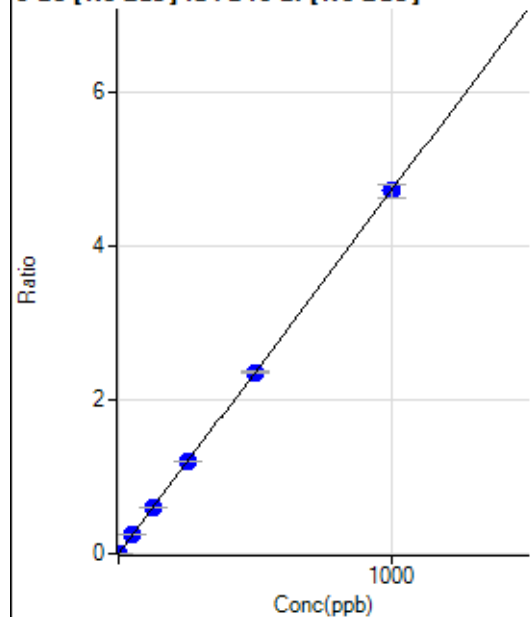


Batch Folder: D:\Agilent\ICPMH\1\DATA\P8091620M.b\
Analysis File: P8091620M.batch.bin
DA Date-Time: 2020-09-16 15:17:15
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	003CALB.d	S00	2020-09-16 11:12:51
2	004CALS.d	S02	2020-09-16 11:16:15
3	005CALS.d	S03	2020-09-16 11:19:36
4	006CALS.d	S04	2020-09-16 11:22:59
5	007CALS.d	S05	2020-09-16 11:26:15
6	008CALS.d	S06	2020-09-16 11:29:28
7	010CALS.d	S07	2020-09-16 11:35:33
8	011CALS.d	S08	2020-09-16 11:38:31

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	57.99	0.0004	P	14.0
2	☐	1.000	0.958	734.54	0.0049	P	0.9
3	☐	50.000	53.037	36933.30	0.2505	P	4.1
4	☐	125.000	128.269	92423.12	0.6052	P	1.2
5	☐	250.000	254.681	185130.25	1.2012	P	0.6
6	☐	500.000	499.093	369245.72	2.3536	P	1.1
7	☐	1000.000	998.723	751172.71	4.7093	P	3.8
8	☐			257.29	0.0016	P	20.2

$$y = 0.0047 * x + 4.0005E-004$$

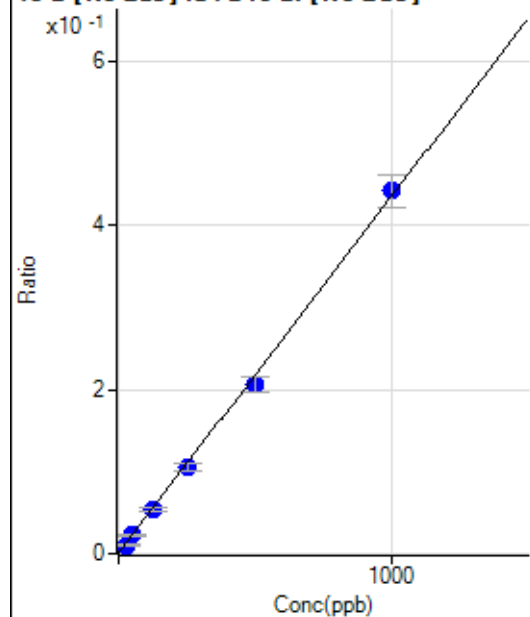
$$R = 1.0000$$

$$DL = 0.03568$$

$$BEC = 0.08485$$

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	133.31	0.0009	P	17.2
2	☐	25.000	21.345	1521.79	0.0102	P	8.6
3	☐	50.000	50.488	3365.73	0.0228	P	10.6
4	☐	125.000	121.057	8167.34	0.0535	P	8.6
5	☐	250.000	241.920	16332.54	0.1059	P	9.4
6	☐	500.000	473.988	32434.64	0.2067	P	9.0
7	☐	1000.000	1015.586	70423.03	0.4418	P	9.1
8	☐			10743.85	0.0655	P	13.9

$$y = 4.3409E-004 * x + 9.2047E-004$$

$$R = 0.9995$$

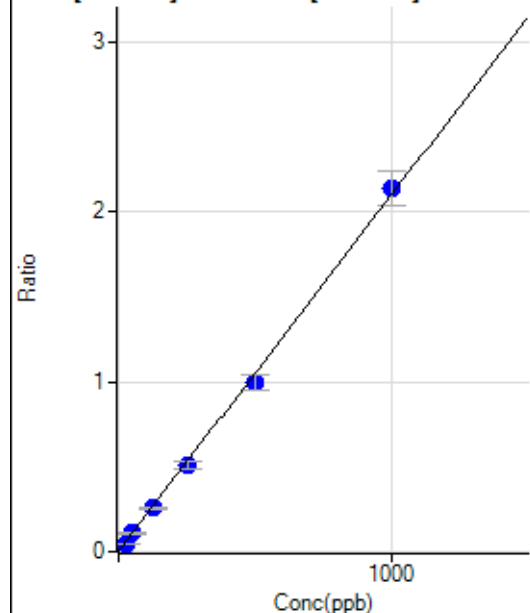
$$DL = 1.095$$

$$BEC = 2.12$$

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	509.24	0.0035	P	12.9
2	☐	25.000	21.239	7179.68	0.0481	P	9.4
3	☐	50.000	50.197	16038.28	0.1088	P	10.1
4	☐	125.000	120.213	39048.59	0.2556	P	7.3
5	☐	250.000	241.814	78737.96	0.5107	P	9.5
6	☐	500.000	472.491	156080.10	0.9945	P	8.3
7	☐	1000.000	1016.483	340385.71	2.1356	P	9.5
8	☐			51465.45	0.3135	P	13.2

$$y = 0.0021 * x + 0.0035$$

$$R = 0.9994$$

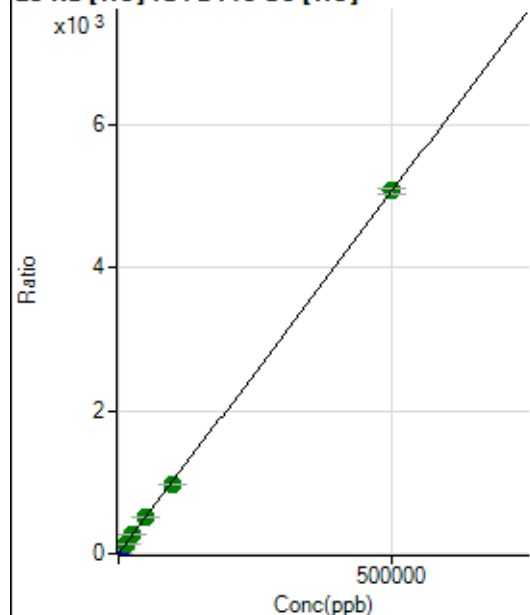
$$DL = 0.6462$$

$$BEC = 1.671$$

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	44666.17	3.5581	P	1.0
2	☐	500.000	504.878	110732.64	8.6692	P	3.7
3	☐	5000.000	5454.584	757354.56	58.7776	P	3.0
4	☐	12500.000	12930.573	1788578.64	134.4607	A	2.4
5	☐	25000.000	26697.008	3540861.58	273.8252	A	5.4
6	☐	50000.000	50060.630	6938784.53	510.3469	A	1.6
7	☐	100000.00	94439.053	13841308.12	959.6118	A	0.4
8	☐	500000.00	501005.96	66843406.35	5,075.4917	A	1.4

$$y = 0.0101 * x + 3.5581$$

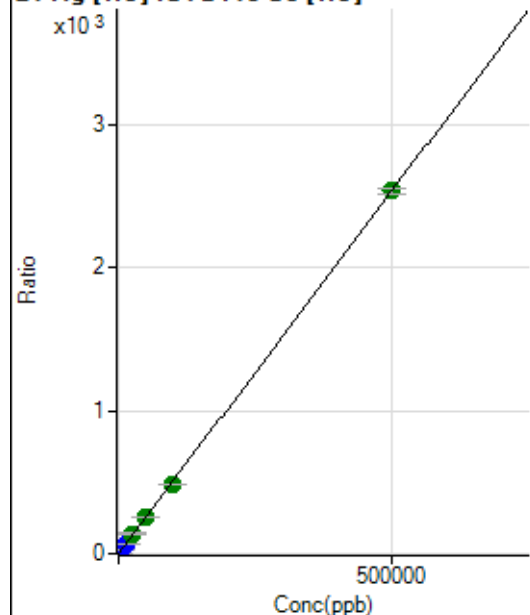
$$R = 0.9999$$

$$DL = 10.75$$

$$BEC = 351.5$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	488.91	0.0390	P	14.8
2	☐	500.000	507.605	33327.61	2.6085	P	2.1
3	☐	5000.000	5557.200	362998.27	28.1692	P	2.4
4	☐	12500.000	13325.805	897857.44	67.4934	P	2.1
5	☐	25000.000	27503.573	1801201.89	139.2603	A	4.7
6	☐	50000.000	50014.676	3442582.37	253.2100	A	2.0
7	☐	100000.00	95607.410	6980984.71	483.9975	A	0.7
8	☐	500000.00	500725.64	33382400.05	2,534.6799	A	1.3

$$y = 0.0051 * x + 0.0390$$

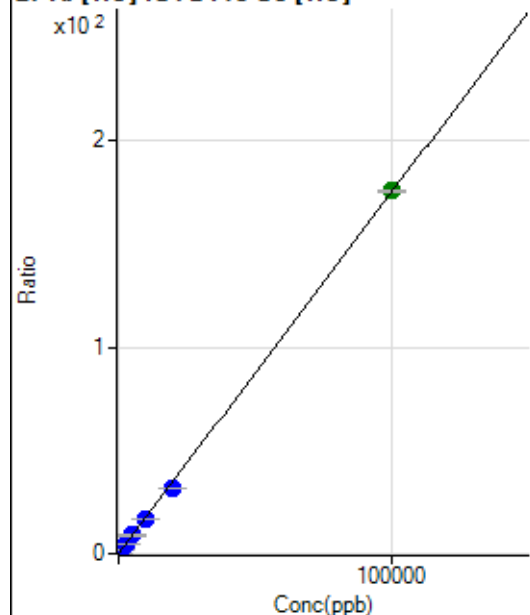
$$R = 0.9999$$

$$DL = 3.431$$

$$BEC = 7.703$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	753.26	0.0600	P	1.6
2	☐	20.000	20.401	1222.82	0.0957	P	8.1
3	☐	1000.000	1023.970	23880.68	1.8531	P	2.1
4	☐	2500.000	2454.106	57960.85	4.3574	P	2.5
5	☐	5000.000	5050.163	115175.36	8.9034	P	3.8
6	☐	10000.000	9536.126	227855.26	16.7587	P	1.5
7	☐	20000.000	18131.200	458813.56	31.8096	P	0.6
8	☐	100000.00	100418.54	2316852.53	175.9030	A	0.7

$$y = 0.0018 * x + 0.0600$$

$$R = 0.9998$$

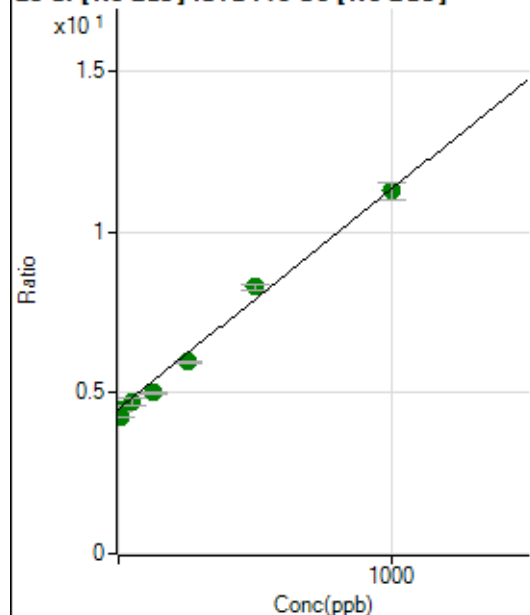
$$DL = 1.625$$

$$BEC = 34.27$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	1127756.28	4.5044	A	2.9
2	☐	10.000	-41.124	1109222.26	4.2238	A	0.6
3	☐	50.000	32.270	1208986.68	4.7246	A	5.8
4	☐	125.000	72.438	1345702.66	4.9986	A	1.2
5	☐	250.000	212.046	1597881.28	5.9511	A	0.9
6	☐	500.000	552.708	2225992.06	8.2754	A	1.7
7	☐	1000.000	991.102	2999897.12	11.2665	A	4.8
8	☐			1247259.52	4.7898	A	0.9

$$y = 0.0068 * x + 4.5044$$

$$R = 0.9961$$

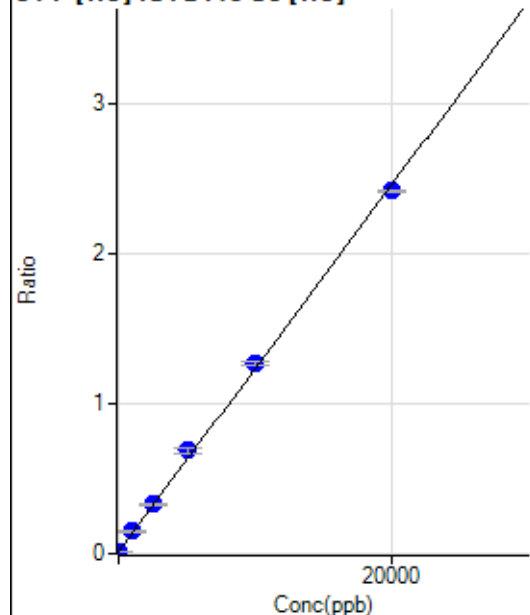
$$DL = 56.57$$

$$BEC = 660.2$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	-2.732	155.56	0.0124	P	16.7
2	☐	0.000	2.732	166.67	0.0131	P	6.6
3	☐	1000.000	1102.903	1902.95	0.1476	P	4.5
4	☐	2500.000	2580.716	4367.44	0.3284	P	5.0
5	☐	5000.000	5536.527	8928.00	0.6900	P	4.7
6	☐	10000.000	10324.407	17344.12	1.2757	P	1.9
7	☐	20000.000	19688.430	34923.16	2.4211	P	0.8
8	☐			194.45	0.0148	P	21.9

$$y = 1.2233E-004 * x + 0.0127$$

$$R = 0.9994$$

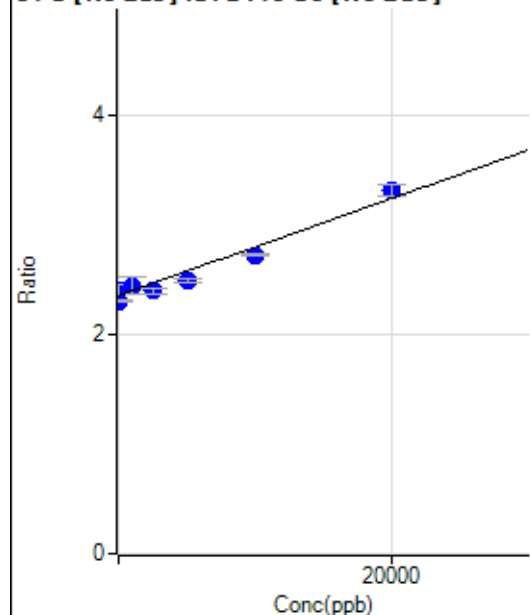
$$DL = 35.87$$

$$BEC = 104$$

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	1203.932	604418.14	2.4145	P	3.5
2	☐	0.000	-1203.932	606049.31	2.3078	P	0.9
3	☐	1000.000	1963.659	626368.54	2.4481	P	6.1
4	☐	2500.000	926.358	646639.81	2.4022	P	2.1
5	☐	5000.000	3041.751	670038.75	2.4959	P	2.0
6	☐	10000.000	8199.982	732839.77	2.7244	P	0.7
7	☐	20000.000	21538.094	883098.54	3.3152	P	3.3
8	☐			580898.03	2.2309	P	1.3

$$y = 4.4297E-005 * x + 2.3612$$

$$R = 0.9809$$

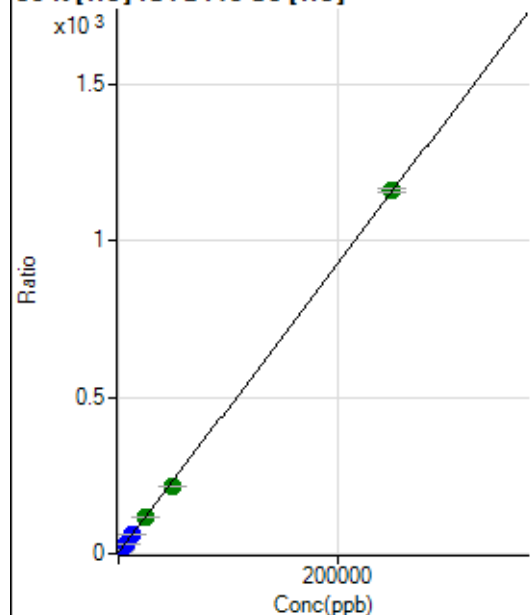
$$DL = 3604$$

$$BEC = 5.33E+04$$

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	38970.05	3.1046	P	0.1
2	☐	500.000	443.268	65741.85	5.1458	P	2.2
3	☐	2500.000	2654.020	197465.88	15.3264	P	3.4
4	☐	6250.000	6329.820	429041.49	32.2536	P	2.2
5	☐	12500.000	13030.481	816412.28	63.1103	P	3.8
6	☐	25000.000	24389.006	1569418.82	115.4166	A	0.3
7	☐	50000.000	45753.745	3083931.15	213.8018	A	0.5
8	☐	250000.00	250880.40	15256877.08	1,158.4157	A	1.0

$$y = 0.0046 * x + 3.1046$$

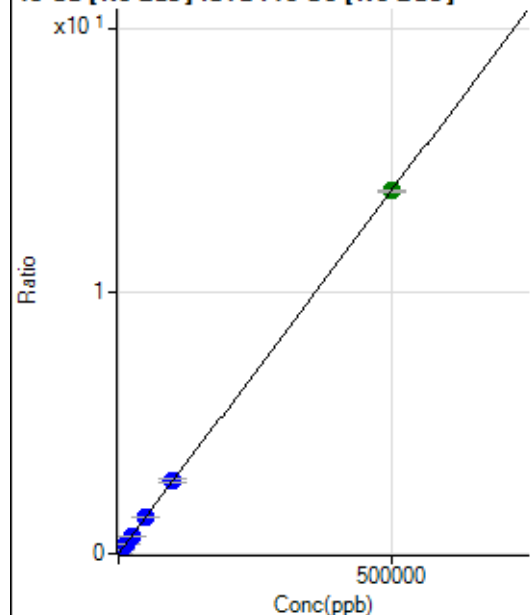
$$R = 0.9998$$

$$DL = 2.992$$

$$BEC = 674.2$$

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	411.62	0.0016	P	5.1
2	☐	500.000	453.919	3727.11	0.0142	P	2.8
3	☐	5000.000	5166.457	36955.18	0.1445	P	7.3
4	☐	12500.000	12295.666	91971.97	0.3416	P	1.2
5	☐	25000.000	24710.783	183850.02	0.6849	P	2.8
6	☐	50000.000	49056.332	365323.28	1.3581	P	0.3
7	☐	100000.00	101220.31	745702.79	2.8005	P	4.8
8	☐	500000.00	499868.25	3599645.73	13.8237	A	0.5

$$y = 2.7651\text{E-}005 * x + 0.0016$$

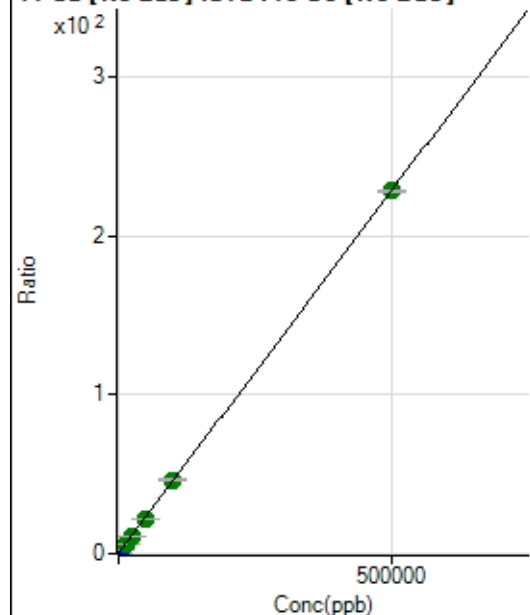
$$R = 1.0000$$

$$DL = 9.062$$

$$BEC = 59.43$$

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	48584.10	0.1941	P	3.1
2	☐	500.000	448.874	104798.92	0.3991	P	2.1
3	☐	5000.000	5249.733	663206.56	2.5923	P	6.2
4	☐	12500.000	12379.515	1574644.64	5.8493	A	1.9
5	☐	25000.000	24487.639	3055440.60	11.3806	A	1.3
6	☐	50000.000	48460.457	6007102.14	22.3319	A	0.6
7	☐	100000.00	101425.43	12389636.73	46.5275	A	4.6
8	☐	500000.00	499895.05	59513096.37	228.5572	A	0.8

$$y = 4.5682\text{E-}004 * x + 0.1941$$

$$R = 1.0000$$

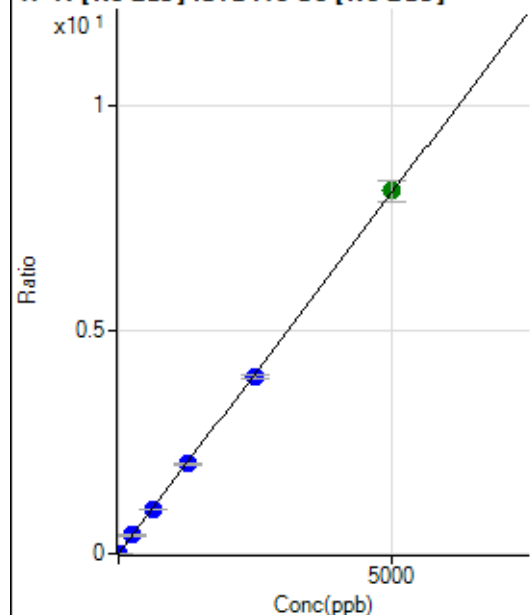
$$DL = 39.77$$

$$BEC = 424.8$$

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	686.15	0.0027	P	3.4
2	☐	5.000	4.597	2666.98	0.0102	P	1.5
3	☐	250.000	256.706	106624.36	0.4169	P	6.9
4	☐	625.000	611.823	266449.45	0.9898	P	1.7
5	☐	1250.000	1238.171	536978.20	2.0002	P	1.9
6	☐	2500.000	2455.215	1066137.33	3.9637	P	1.7
7	☐	5000.000	5026.662	2159555.62	8.1121	A	5.6
8	☐			850.05	0.0033	P	8.5

$$y = 0.0016 * x + 0.0027$$

$$R = 0.9999$$

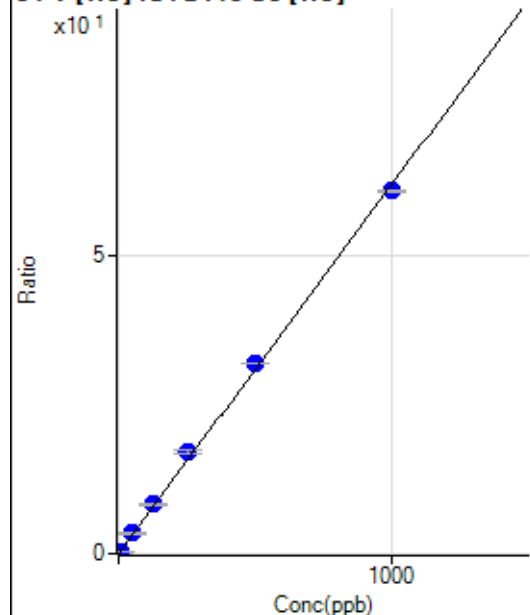
$$DL = 0.1754$$

$$BEC = 1.697$$

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	14.44	0.0012	P	14.0
2	☐	5.000	5.119	4071.73	0.3187	P	4.9
3	☐	50.000	55.123	44073.15	3.4207	P	3.3
4	☐	125.000	133.806	110427.29	8.3017	P	2.4
5	☐	250.000	274.368	220198.71	17.0214	P	3.7
6	☐	500.000	517.556	436577.48	32.1075	P	0.5
7	☐	1000.000	983.772	880282.29	61.0289	P	0.3
8	☐			176.67	0.0134	P	9.3

$$y = 0.0620 * x + 0.0012$$

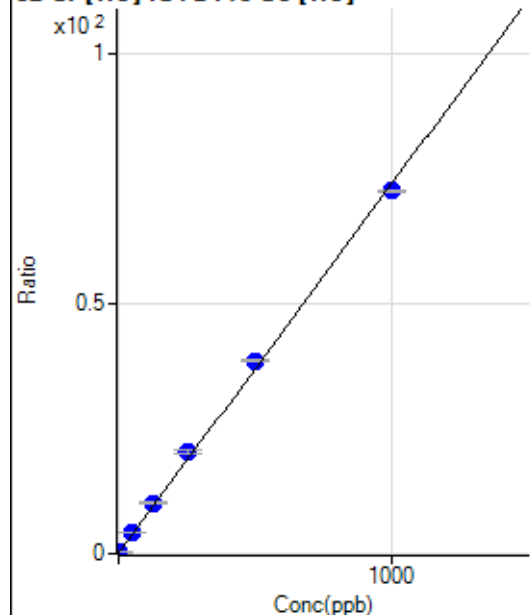
$$R = 0.9994$$

$$DL = 0.007804$$

$$BEC = 0.01856$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	988.93	0.0788	P	4.8
2	☐	2.000	2.177	3059.25	0.2395	P	2.6
3	☐	50.000	56.120	54398.41	4.2210	P	1.8
4	☐	125.000	135.662	134241.20	10.0919	P	2.4
5	☐	250.000	276.346	264840.37	20.4757	P	4.3
6	☐	500.000	520.301	523248.78	38.4819	P	0.8
7	☐	1000.000	981.624	1046165.71	72.5319	P	0.8
8	☐			2185.75	0.1660	P	2.2

$$y = 0.0738 * x + 0.0788$$

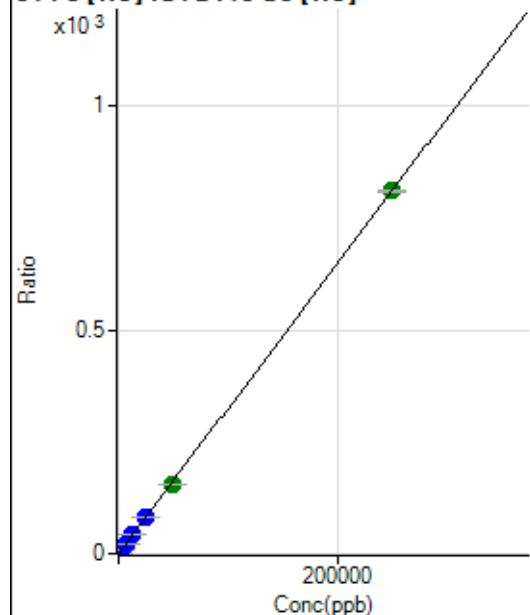
$$R = 0.9993$$

$$DL = 0.1552$$

$$BEC = 1.068$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	451.87	0.0360	P	6.1
2	☐	50.000	51.644	2596.58	0.2033	P	2.8
3	☐	2500.000	2661.480	111509.34	8.6554	P	3.8
4	☐	6250.000	6411.120	276657.50	20.7988	P	2.5
5	☐	12500.000	13259.103	555771.90	42.9765	P	5.0
6	☐	25000.000	24955.896	1099397.00	80.8573	P	1.0
7	☐	50000.000	47383.957	2213895.56	153.4921	A	0.8
8	☐	250000.00	250484.02	10684658.57	811.2449	A	0.8

$$y = 0.0032 * x + 0.0360$$

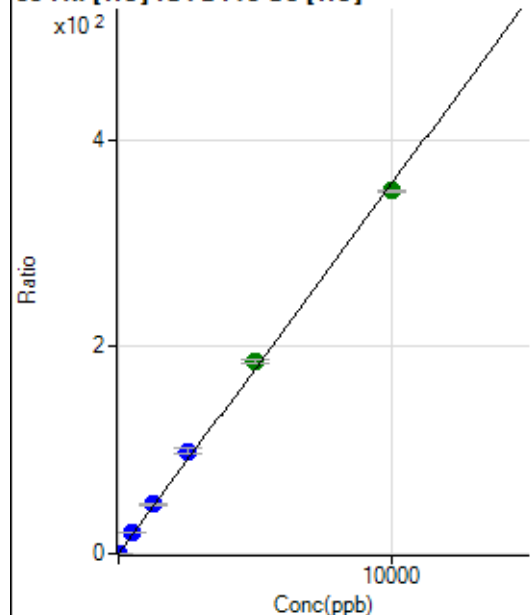
$$R = 0.9999$$

$$DL = 2.026$$

$$BEC = 11.12$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	123.33	0.0098	P	5.4
2	☐	1.000	1.062	610.02	0.0477	P	1.4
3	☐	500.000	557.997	256785.99	19.9290	P	3.1
4	☐	1250.000	1340.498	636678.92	47.8625	P	2.2
5	☐	2500.000	2772.820	1280326.34	98.9930	P	4.6
6	☐	5000.000	5207.023	2527420.22	185.8884	A	2.4
7	☐	10000.000	9814.072	5053272.70	350.3494	A	0.8
8	☐			3364.88	0.2555	P	0.9

$$y = 0.0357 * x + 0.0098$$

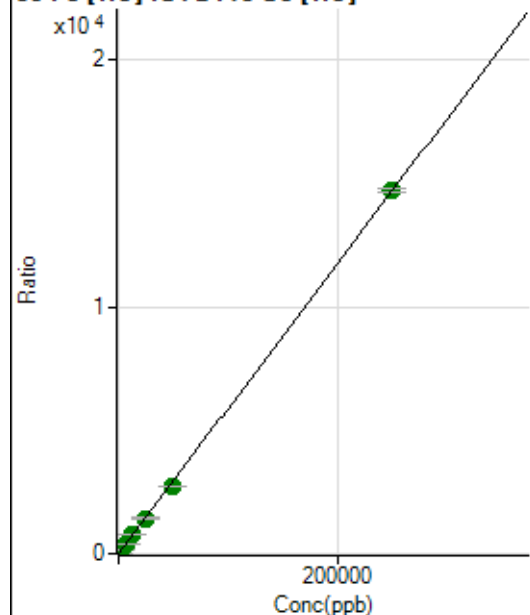
$$R = 0.9992$$

$$DL = 0.04497$$

$$BEC = 0.2753$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	3365.27	0.2682	P	3.2
2	☐	50.000	51.376	41893.10	3.2793	P	2.9
3	☐	2500.000	2659.947	2012100.55	156.1651	A	3.3
4	☐	6250.000	6368.413	4968060.53	373.5148	A	2.8
5	☐	12500.000	13008.168	9863221.87	762.6646	A	4.9
6	☐	25000.000	24570.415	19583619.19	1,440.3169	A	1.6
7	☐	50000.000	46397.912	39227311.06	2,719.6059	A	0.6
8	☐	250000.00	250733.40	193549387.6	14,695.516	A	1.1

$$y = 0.0586 * x + 0.2682$$

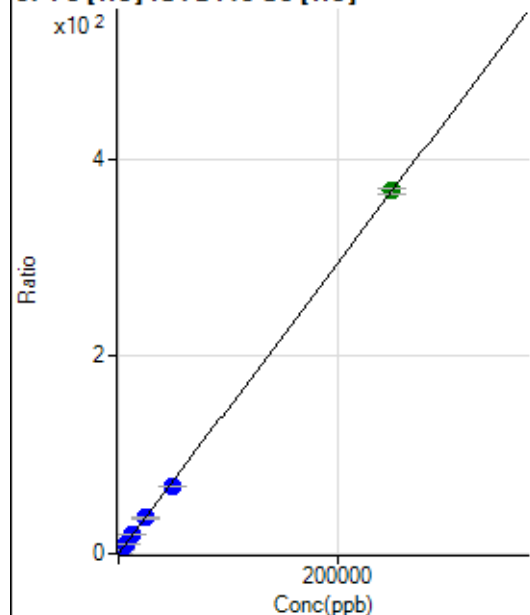
$$R = 0.9999$$

$$DL = 0.436$$

$$BEC = 4.575$$

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	187.04	0.0149	P	9.3
2	☐	50.000	53.721	1198.22	0.0936	P	11.2
3	☐	2500.000	2645.762	50149.34	3.8920	P	2.9
4	☐	6250.000	6340.778	123778.96	9.3067	P	3.2
5	☐	12500.000	13049.887	247530.44	19.1382	P	4.6
6	☐	25000.000	24611.957	490597.17	36.0813	P	1.4
7	☐	50000.000	46499.708	983055.33	68.1557	P	0.5
8	☐	250000.00	250707.64	4838458.44	367.4027	A	1.7

$$y = 0.0015 * x + 0.0149$$

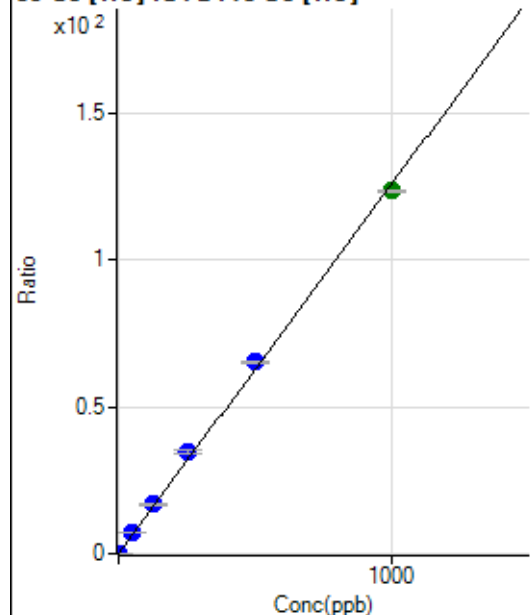
$$R = 0.9999$$

$$DL = 2.847$$

$$BEC = 10.16$$

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	32.22	0.0026	P	26.4
2	☐	1.000	1.046	1715.68	0.1343	P	5.3
3	☐	50.000	55.847	90629.55	7.0330	P	2.4
4	☐	125.000	133.823	224115.52	16.8493	P	2.7
5	☐	250.000	275.784	449077.94	34.7205	P	4.4
6	☐	500.000	519.346	888999.30	65.3820	P	0.7
7	☐	1000.000	982.486	1784004.14	123.6857	A	0.5
8	☐			2978.12	0.2261	P	4.6

$$y = 0.1259 * x + 0.0026$$

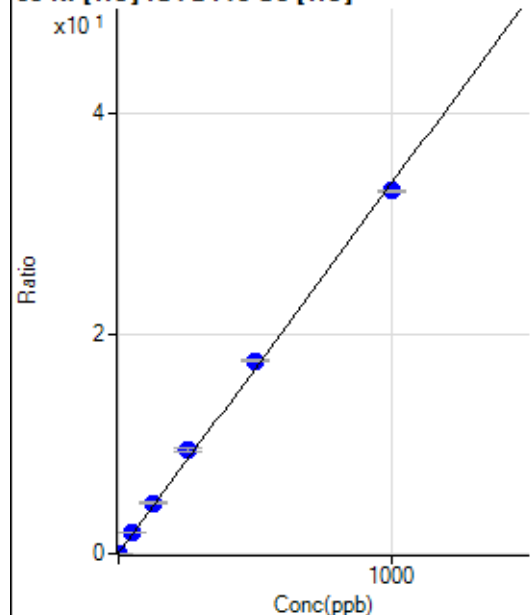
$$R = 0.9993$$

$$DL = 0.01613$$

$$BEC = 0.0204$$

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	313.34	0.0249	P	7.1
2	☐	1.000	1.022	757.81	0.0593	P	7.0
3	☐	50.000	56.365	24743.86	1.9201	P	2.8
4	☐	125.000	134.948	60677.62	4.5623	P	3.3
5	☐	250.000	280.719	122419.42	9.4636	P	3.9
6	☐	500.000	521.144	238582.06	17.5475	P	1.4
7	☐	1000.000	980.186	475718.36	32.9820	P	0.7
8	☐			821.14	0.0624	P	5.0

$$y = 0.0336 * x + 0.0249$$

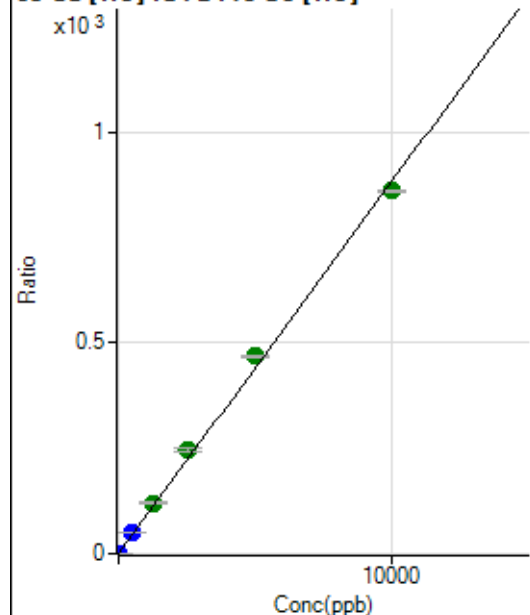
$$R = 0.9991$$

$$DL = 0.1576$$

$$BEC = 0.7419$$

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	656.05	0.0523	P	2.2
2	☐	2.000	2.135	3074.94	0.2406	P	0.8
3	☐	500.000	571.083	649684.12	50.4198	P	2.9
4	☐	1250.000	1355.396	1590880.41	119.5936	A	2.4
5	☐	2500.000	2799.806	3194294.92	246.9856	A	4.8
6	☐	5000.000	5301.236	6357949.22	467.6032	A	1.4
7	☐	10000.000	9757.702	12413710.70	860.6482	A	0.7
8	☐			5654.96	0.4294	P	0.8

$$y = 0.0882 * x + 0.0523$$

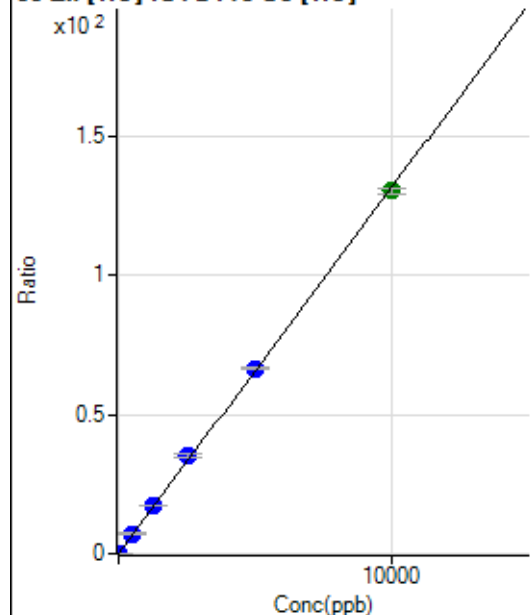
$$R = 0.9988$$

$$DL = 0.03906$$

$$BEC = 0.5927$$

Weight: <None>

Min Conc: 0

66 Zn [He] ISTD:45 Sc [He]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	230.00	0.0183	P	11.6
2	☐	2.000	2.504	654.47	0.0513	P	7.2
3	☐	500.000	548.543	93283.20	7.2400	P	3.4
4	☐	1250.000	1319.145	231257.72	17.3850	P	2.3
5	☐	2500.000	2697.083	459499.49	35.5258	P	4.4
6	☐	5000.000	5054.297	904990.96	66.5589	P	0.8
7	☐	10000.000	9912.510	1882528.55	130.5179	A	1.3
8	☐			3481.57	0.2644	P	4.1

$$y = 0.0132 * x + 0.0183$$

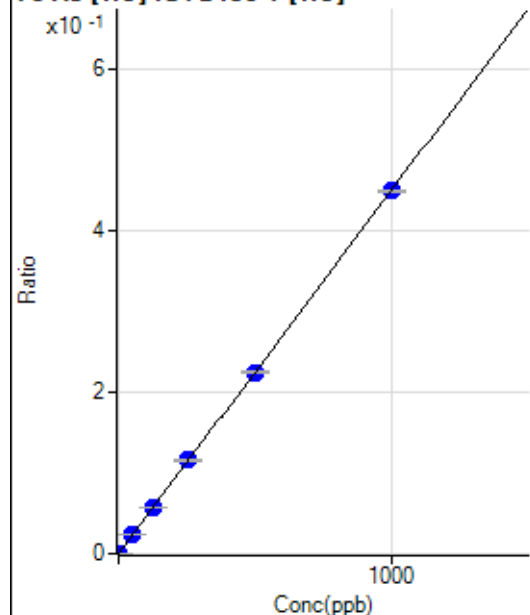
$$R = 0.9998$$

$$DL = 0.4837$$

$$BEC = 1.39$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	13.67	0.0000	P	12.0
2	☐	1.000	0.882	131.68	0.0004	P	11.3
3	☐	50.000	52.029	6902.39	0.0234	P	2.1
4	☐	125.000	125.813	16923.15	0.0566	P	0.6
5	☐	250.000	258.001	34137.84	0.1160	P	2.1
6	☐	500.000	499.148	67818.12	0.2244	P	1.5
7	☐	1000.000	998.223	136431.06	0.4488	P	0.3
8	☐			55.01	0.0002	P	21.1

$$y = 4.4956E-004 * x + 4.6681E-005$$

$$R = 1.0000$$

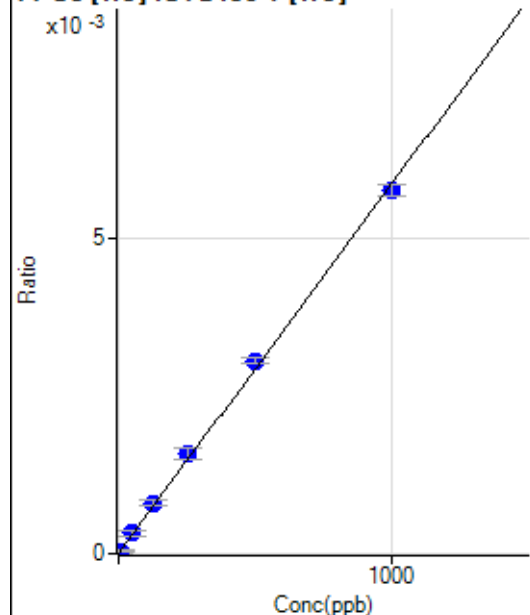
$$DL = 0.03725$$

$$BEC = 0.1038$$

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	7.031	13.33	0.0000	P	24.9
3	☐	50.000	54.952	95.56	0.0003	P	28.7
4	☐	125.000	136.759	240.00	0.0008	P	9.4
5	☐	250.000	271.238	466.68	0.0016	P	10.8
6	☐	500.000	521.988	922.26	0.0031	P	3.4
7	☐	1000.000	981.969	1744.57	0.0057	P	3.1
8	☐			4.45	0.0000	P	86.6

$$y = 5.8402\text{E-}006 * x + 3.7724\text{E-}006$$

$$R = 0.9994$$

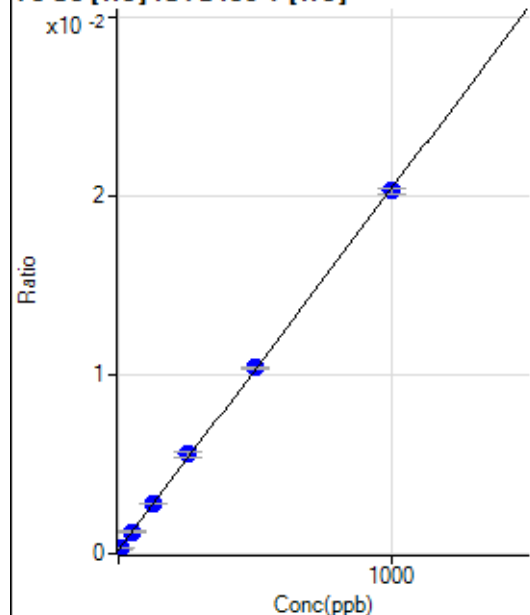
$$DL = 3.356$$

$$BEC = 0.6459$$

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	57.68	0.0002	P	4.5
2	☐	5.000	5.627	92.34	0.0003	P	12.0
3	☐	50.000	50.015	355.71	0.0012	P	6.7
4	☐	125.000	127.726	831.11	0.0028	P	1.5
5	☐	250.000	265.193	1635.60	0.0056	P	4.7
6	☐	500.000	504.744	3144.01	0.0104	P	1.5
7	☐	1000.000	993.485	6167.64	0.0203	P	1.7
8	☐			51.34	0.0002	P	24.3

$$y = 2.0225\text{E-}005 * x + 1.9691\text{E-}004$$

$$R = 0.9999$$

$$DL = 1.304$$

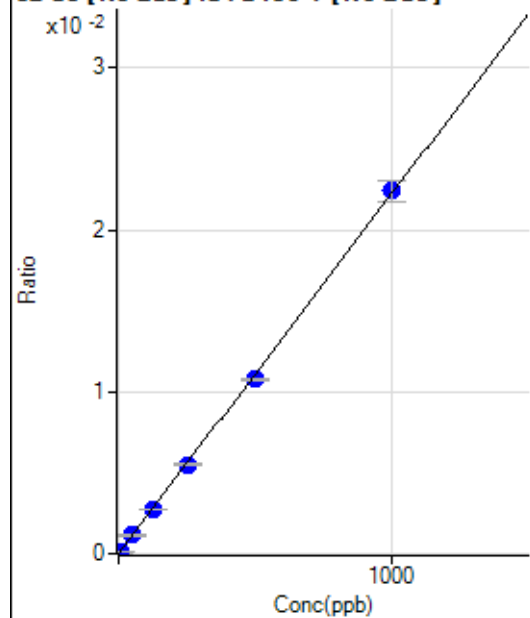
$$BEC = 9.736$$

Weight: <None>

Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			2903.31		P	6.4
2	☐			2756.45		P	9.8
3	☐			2816.53		P	12.1
4	☐			2913.33		P	11.4
5	☐			2826.55		P	7.3
6	☐			2916.65		P	7.3
7	☐			2639.64		P	4.4
8	☐			3010.10		P	12.5

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	4.61	0.0000	P	1408.
2	☐	5.000	4.078	220.05	0.0001	P	24.5
3	☐	50.000	50.934	2609.17	0.0011	P	5.3
4	☐	125.000	122.359	6575.83	0.0027	P	2.2
5	☐	250.000	247.143	13143.04	0.0055	P	1.3
6	☐	500.000	484.864	26076.25	0.0108	P	1.3
7	☐	1000.000	1008.570	52979.01	0.0224	P	5.8
8	☐			81.98	0.0000	P	90.5

$$y = 2.2224E-005 * x + 1.6648E-006$$

$$R = 0.9998$$

$$DL = 3.165$$

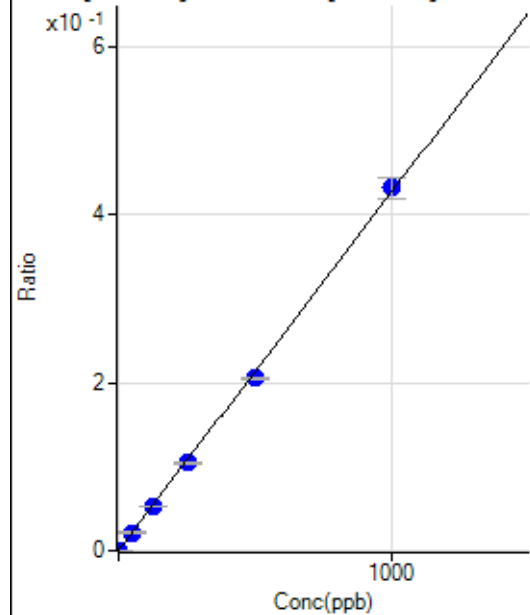
$$BEC = 0.07491$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			671.13		P	13.4
2	☐			687.80		P	5.2
3	☐			642.24		P	2.5
4	☐			628.91		P	3.0
5	☐			637.80		P	3.6
6	☐			636.69		P	4.0
7	☐			660.02		P	2.3
8	☐			593.35		P	4.5

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	1019.51	0.0005	P	3.9
2	☐	1.000	0.724	1822.39	0.0008	P	7.1
3	☐	50.000	49.626	49739.08	0.0216	P	4.6
4	☐	125.000	121.826	126589.66	0.0524	P	1.1
5	☐	250.000	245.232	251089.58	0.1050	P	1.8
6	☐	500.000	479.483	495548.76	0.2048	P	1.2
7	☐	1000.000	1011.866	1020370.08	0.4317	P	5.6
8	☐			6746.21	0.0029	P	3.0

$$y = 4.2619E-004 * x + 4.5468E-004$$

$$R = 0.9997$$

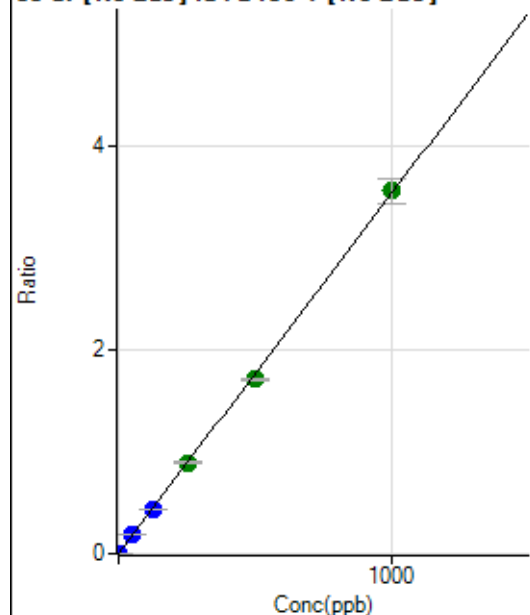
$$DL = 0.1239$$

$$BEC = 1.067$$

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	86.11	0.0000	P	71.2
2	☐	1.000	0.926	7896.87	0.0033	P	5.6
3	☐	50.000	52.337	425191.90	0.1847	P	5.3
4	☐	125.000	124.304	1060309.21	0.4387	P	1.2
5	☐	250.000	252.006	2126984.03	0.8894	A	2.8
6	☐	500.000	484.612	4138322.96	1.7102	A	0.9
7	☐	1000.000	1007.163	8397854.53	3.5542	A	6.7
8	☐			46249.48	0.0199	P	0.8

$$y = 0.0035 * x + 3.9067E-005$$

$$R = 0.9998$$

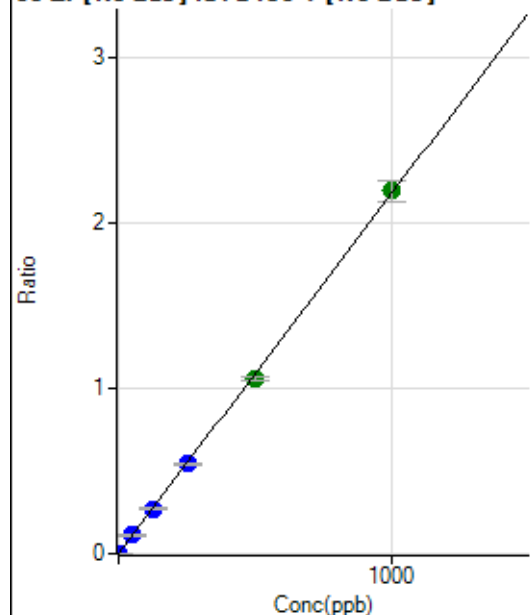
$$DL = 0.02366$$

$$BEC = 0.01107$$

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	72.23	0.0000	P	51.9
2	☐	1.000	0.861	4553.66	0.0019	P	6.7
3	☐	50.000	51.248	256755.05	0.1116	P	6.2
4	☐	125.000	124.511	655140.28	0.2711	P	1.5
5	☐	250.000	248.983	1296413.66	0.5420	P	2.2
6	☐	500.000	486.014	2560166.23	1.0580	A	1.6
7	☐	1000.000	1007.246	5182395.43	2.1926	A	5.7
8	☐			1450.12	0.0006	P	8.8

$$y = 0.0022 * x + 3.1862E-005$$

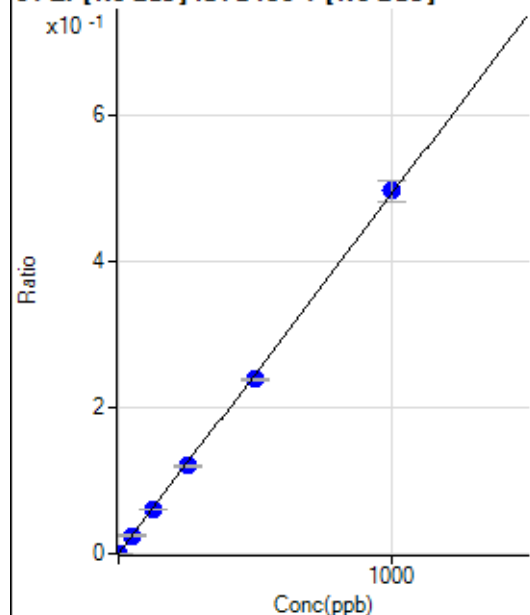
$$R = 0.9999$$

$$DL = 0.0228$$

$$BEC = 0.01464$$

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	25.00	0.0000	P	55.7
2	☐	1.000	0.910	1097.30	0.0005	P	16.0
3	☐	50.000	50.557	57352.05	0.0249	P	5.5
4	☐	125.000	121.829	145074.42	0.0600	P	1.7
5	☐	250.000	245.375	289121.19	0.1209	P	2.6
6	☐	500.000	484.991	578132.35	0.2389	P	0.9
7	☐	1000.000	1009.029	1174744.96	0.4971	P	6.0
8	☐			283.34	0.0001	P	22.1

$$y = 4.9261\text{E-}004 * x + 1.0957\text{E-}005$$

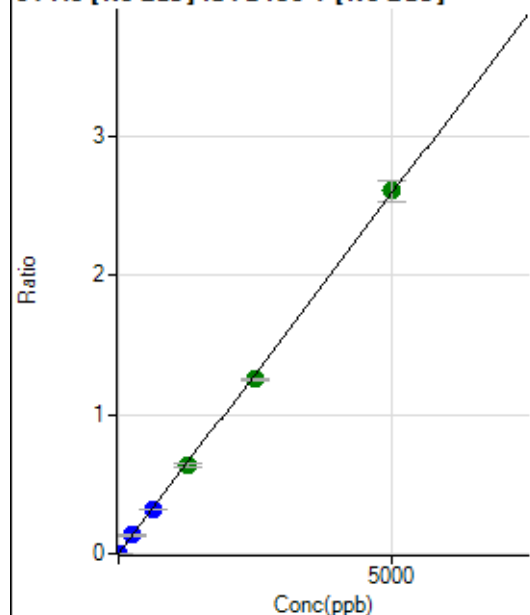
$$R = 0.9998$$

$$DL = 0.03717$$

$$BEC = 0.02224$$

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	122.23	0.0001	P	14.2
2	☐	5.000	4.670	5901.43	0.0025	P	5.6
3	☐	250.000	256.095	305119.05	0.1326	P	5.9
4	☐	625.000	610.512	763799.58	0.3160	P	1.2
5	☐	1250.000	1236.184	1530096.85	0.6398	A	3.3
6	☐	2500.000	2425.023	3036735.96	1.2551	A	1.5
7	☐	5000.000	5042.449	6168595.15	2.6097	A	5.5
8	☐			3072.64	0.0013	P	6.7

$$y = 5.1754\text{E-}004 * x + 5.4657\text{E-}005$$

$$R = 0.9998$$

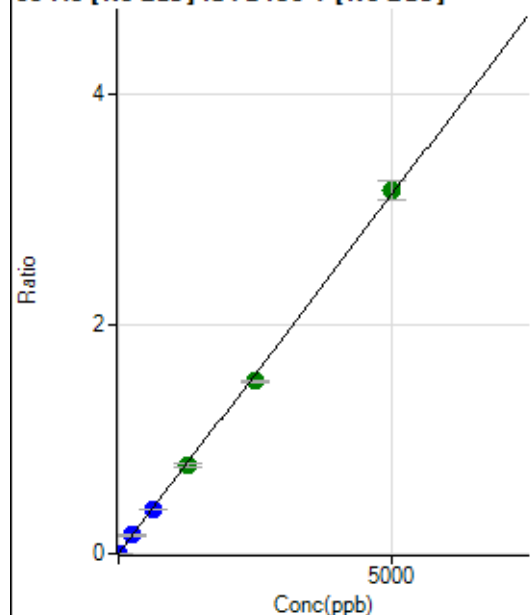
$$DL = 0.04506$$

$$BEC = 0.1056$$

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	38.89	0.0000	P	22.6
2	☐	5.000	4.669	7015.85	0.0029	P	1.9
3	☐	250.000	258.923	372516.73	0.1619	P	6.6
4	☐	625.000	616.127	931162.05	0.3853	P	1.8
5	☐	1250.000	1234.572	1846290.95	0.7720	A	2.9
6	☐	2500.000	2402.472	3635052.38	1.5023	A	0.9
7	☐	5000.000	5053.284	7469697.30	3.1599	A	5.3
8	☐			4134.07	0.0018	P	10.1

$$y = 6.2531E-004 * x + 1.7284E-005$$

$$R = 0.9997$$

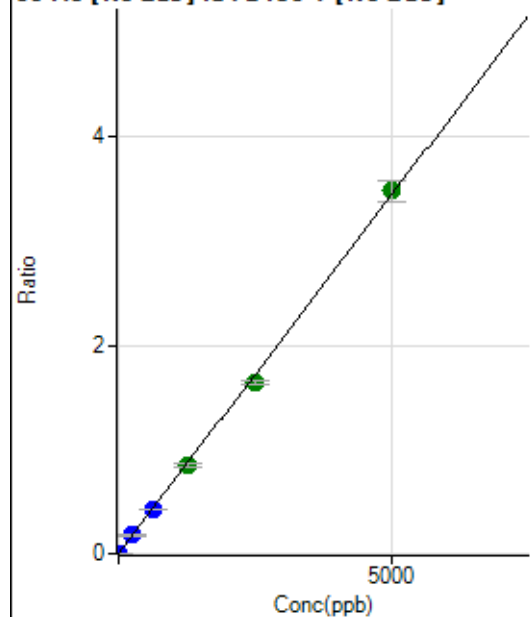
$$DL = 0.0187$$

$$BEC = 0.02764$$

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	47.22	0.0000	P	30.5
2	☐	5.000	4.559	7543.92	0.0032	P	2.2
3	☐	250.000	257.324	407573.26	0.1771	P	5.7
4	☐	625.000	611.177	1016543.23	0.4206	P	1.8
5	☐	1250.000	1235.338	2032799.50	0.8501	A	4.0
6	☐	2500.000	2395.833	3989033.99	1.6488	A	2.4
7	☐	5000.000	5057.111	8225370.49	3.4802	A	5.8
8	☐			4753.73	0.0020	P	17.8

$$y = 6.8817E-004 * x + 2.1197E-005$$

$$R = 0.9997$$

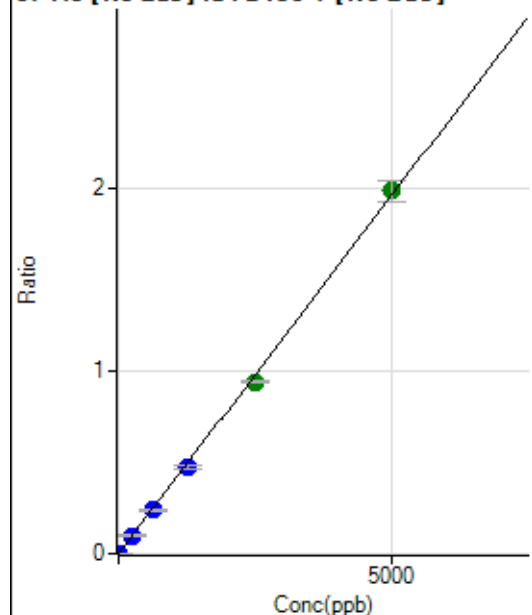
$$DL = 0.02821$$

$$BEC = 0.0308$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	11.11	0.0000	P	86.8
2	☐	5.000	4.750	4470.27	0.0019	P	6.0
3	☐	250.000	252.888	228675.24	0.0994	P	6.0
4	☐	625.000	606.432	575933.43	0.2383	P	1.6
5	☐	1250.000	1214.965	1141605.43	0.4774	P	3.8
6	☐	2500.000	2392.425	2274710.34	0.9401	A	1.0
7	☐	5000.000	5064.723	4703725.19	1.9902	A	5.8
8	☐			2611.43	0.0011	P	10.4

$$y = 3.9294\text{E-}004 * x + 5.0236\text{E-}006$$

$$R = 0.9996$$

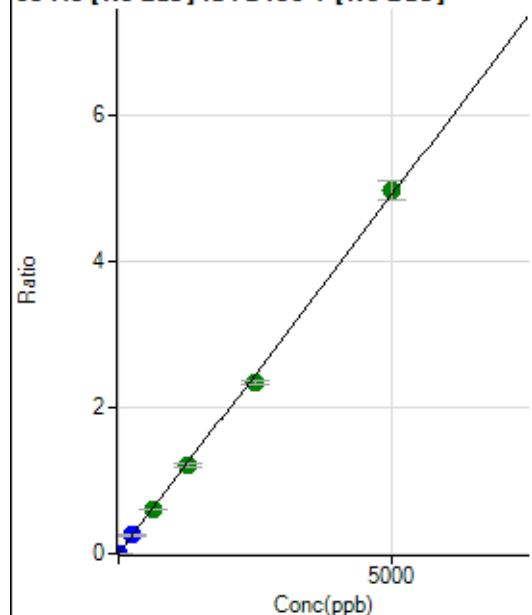
$$DL = 0.03329$$

$$BEC = 0.01278$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	8.33	0.0000	P	4.5
2	☐	5.000	4.649	10901.83	0.0046	P	4.9
3	☐	250.000	255.580	576490.04	0.2506	P	6.6
4	☐	625.000	612.055	1450335.37	0.6001	A	1.3
5	☐	1250.000	1232.529	2889926.58	1.2084	A	3.0
6	☐	2500.000	2391.277	5672472.74	2.3445	A	2.2
7	☐	5000.000	5060.068	11727306.86	4.9610	A	5.4
8	☐			6376.65	0.0027	P	7.2

$$y = 9.8042\text{E-}004 * x + 3.7161\text{E-}006$$

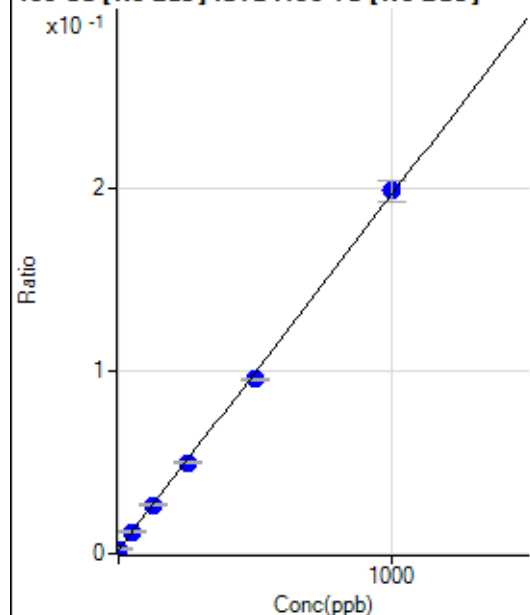
$$R = 0.9996$$

$$DL = 0.0005136$$

$$BEC = 0.00379$$

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	802.83	0.0022	P	20.9
2	☐	1.000	1.938	997.29	0.0026	P	11.5
3	☐	50.000	50.254	4456.39	0.0120	P	6.3
4	☐	125.000	125.662	10398.63	0.0267	P	3.3
5	☐	250.000	244.665	19322.32	0.0498	P	1.8
6	☐	500.000	480.862	37518.41	0.0957	P	1.3
7	☐	1000.000	1010.807	76624.17	0.1986	P	5.6
8	☐			827.83	0.0022	P	9.5

$$y = 1.9428\text{E-}004 * x + 0.0022$$

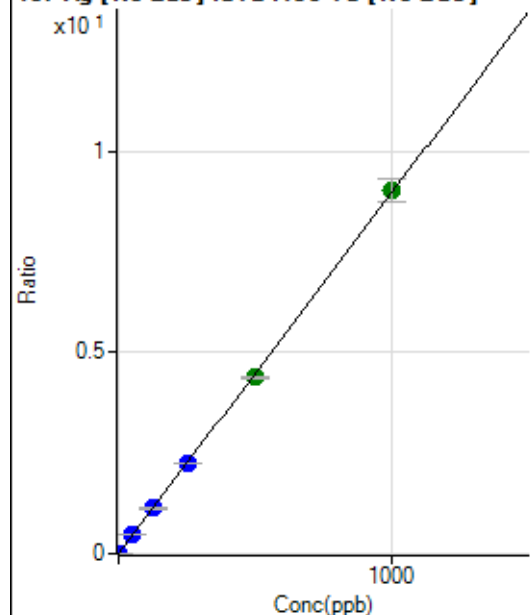
$$R = 0.9997$$

$$DL = 7.237$$

$$BEC = 11.57$$

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	55.56	0.0002	P	41.7
2	☐	1.000	0.993	3442.19	0.0091	P	5.4
3	☐	50.000	52.378	174323.43	0.4699	P	6.7
4	☐	125.000	125.289	438360.52	1.1239	P	1.7
5	☐	250.000	251.689	876052.14	2.2576	P	1.0
6	☐	500.000	488.331	1717668.14	4.3801	A	0.4
7	☐	1000.000	1005.257	3476947.13	9.0164	A	6.5
8	☐			1827.95	0.0048	P	10.5

$$y = 0.0090 * x + 1.5661\text{E-}004$$

$$R = 0.9999$$

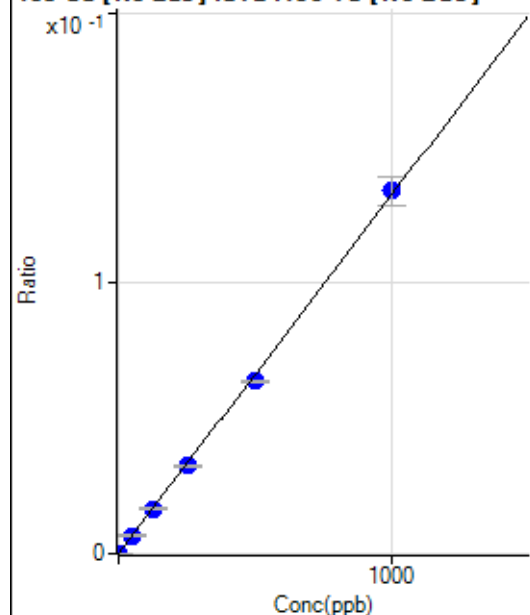
$$DL = 0.02183$$

$$BEC = 0.01746$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	15.28	0.0000	P	18.8
2	☐	1.000	0.616	47.22	0.0001	P	14.7
3	☐	50.000	49.887	2471.08	0.0067	P	4.7
4	☐	125.000	123.991	6426.57	0.0165	P	5.3
5	☐	250.000	244.186	12576.67	0.0324	P	2.2
6	☐	500.000	479.852	24960.14	0.0637	P	1.6
7	☐	1000.000	1011.660	51707.57	0.1342	P	7.7
8	☐			41.67	0.0001	P	29.6

$$y = 1.3256\text{E-}004 * x + 4.2763\text{E-}005$$

$$R = 0.9997$$

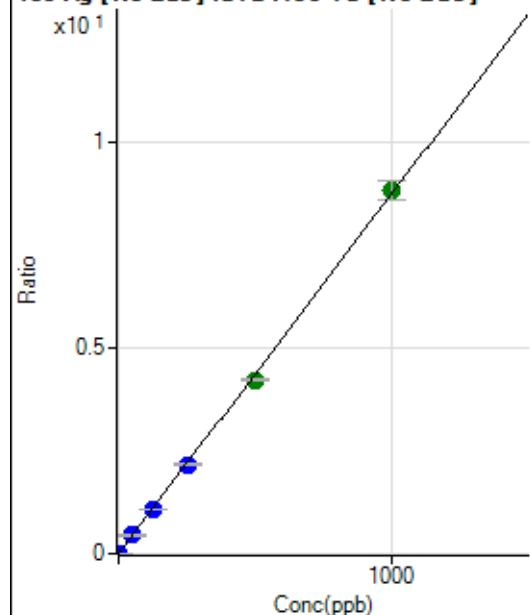
$$DL = 0.1824$$

$$BEC = 0.3226$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	47.23	0.0001	P	59.0
2	☐	1.000	0.902	3042.09	0.0080	P	3.1
3	☐	50.000	52.023	168679.37	0.4546	P	5.9
4	☐	125.000	124.430	424045.87	1.0871	P	0.9
5	☐	250.000	248.139	841141.59	2.1677	P	1.6
6	☐	500.000	483.344	1655772.05	4.2223	A	0.6
7	☐	1000.000	1008.764	3399500.60	8.8120	A	5.4
8	☐			1808.50	0.0047	P	3.6

$$y = 0.0087 * x + 1.3352\text{E-}004$$

$$R = 0.9998$$

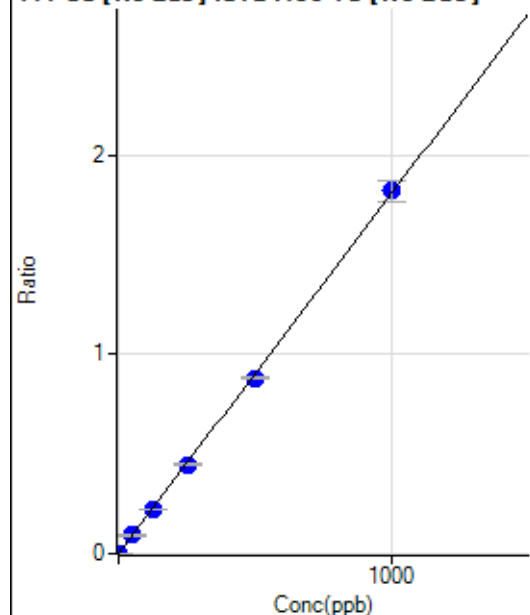
$$DL = 0.02707$$

$$BEC = 0.01528$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	565.17	0.0016	P	20.1
2	☐	1.000	1.048	1320.62	0.0035	P	6.0
3	☐	50.000	51.615	35168.65	0.0948	P	7.7
4	☐	125.000	123.158	87408.13	0.2241	P	2.3
5	☐	250.000	247.206	173960.25	0.4483	P	0.7
6	☐	500.000	486.778	345543.57	0.8811	P	1.0
7	☐	1000.000	1007.459	702774.65	1.8219	P	5.7
8	☐			812.81	0.0021	P	9.6

$$y = 0.0018 * x + 0.0016$$

$$R = 0.9999$$

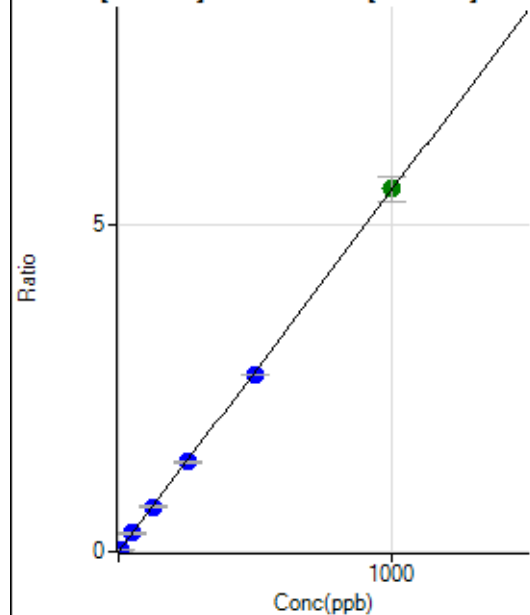
$$DL = 0.5275$$

$$BEC = 0.8757$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	152.78	0.0004	P	8.9
2	☐	5.000	4.574	9753.73	0.0257	P	4.5
3	☐	50.000	51.403	105468.94	0.2842	P	6.0
4	☐	125.000	123.977	267150.48	0.6850	P	1.9
5	☐	250.000	249.557	534832.41	1.3784	P	1.9
6	☐	500.000	491.317	1064003.15	2.7132	P	0.4
7	☐	1000.000	1004.512	2138743.95	5.5468	A	6.9
8	☐			600.03	0.0016	P	13.0

$$y = 0.0055 * x + 4.2648E-004$$

$$R = 0.9999$$

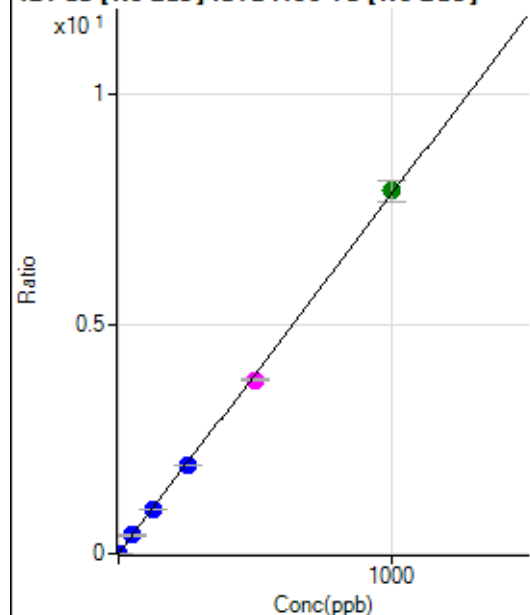
$$DL = 0.02067$$

$$BEC = 0.07724$$

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	19.44	0.0001	P	69.8
2	☐	2.000	1.936	5776.41	0.0152	P	1.6
3	☐	50.000	51.280	148908.50	0.4015	P	7.4
4	☐	125.000	122.655	374579.31	0.9603	P	1.0
5	☐	250.000	245.753	746584.52	1.9240	P	1.8
6	☐	500.000	483.858	1485467.40	3.7881	M	1.6
7	☐	1000.000	1009.362	3047717.21	7.9022	A	6.1
8	☐			1869.63	0.0049	P	9.2

$$y = 0.0078 * x + 5.5320E-005$$

$$R = 0.9998$$

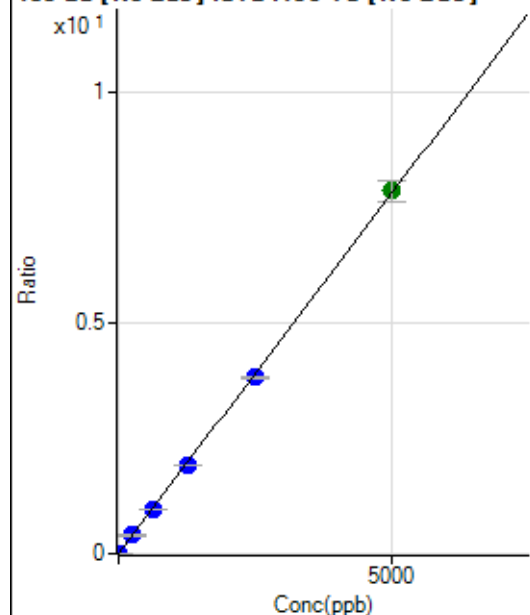
$$DL = 0.01479$$

$$BEC = 0.007066$$

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	19.44	0.0001	P	64.2
2	☐	10.000	9.400	5590.17	0.0147	P	3.9
3	☐	250.000	259.004	149853.61	0.4041	P	7.2
4	☐	625.000	608.288	370104.66	0.9489	P	1.3
5	☐	1250.000	1229.783	744340.08	1.9183	P	1.8
6	☐	2500.000	2442.283	1493898.08	3.8096	P	0.9
7	☐	5000.000	5035.553	3029575.28	7.8546	A	5.9
8	☐			5303.95	0.0139	P	4.3

$$y = 0.0016 * x + 5.4254E-005$$

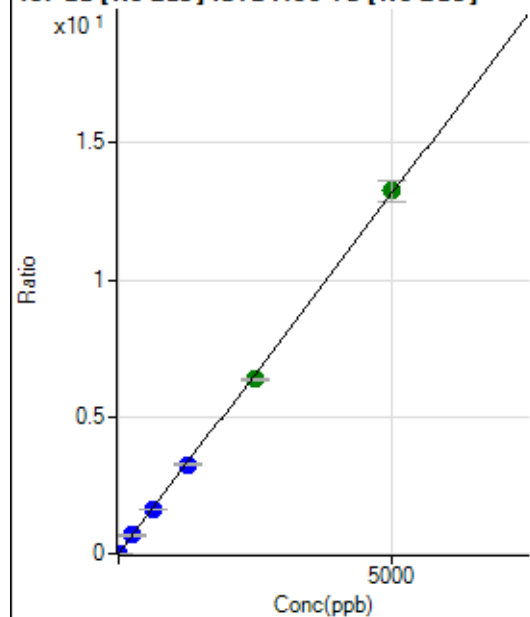
$$R = 0.9999$$

$$DL = 0.06695$$

$$BEC = 0.03478$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	16.67	0.0000	P	54.1
2	☐	10.000	9.435	9436.90	0.0248	P	1.6
3	☐	250.000	259.440	252944.12	0.6819	P	7.0
4	☐	625.000	615.462	630945.63	1.6177	P	1.8
5	☐	1250.000	1241.001	1265783.30	3.2618	P	0.8
6	☐	2500.000	2420.060	2494346.98	6.3608	A	1.0
7	☐	5000.000	5042.941	5112255.45	13.2547	A	6.0
8	☐			9036.57	0.0236	P	0.9

$$y = 0.0026 * x + 4.7171E-005$$

$$R = 0.9998$$

$$DL = 0.02911$$

$$BEC = 0.01795$$

Weight: <None>

Min Conc: 0

150 Nd [No Gas] No available calibration points

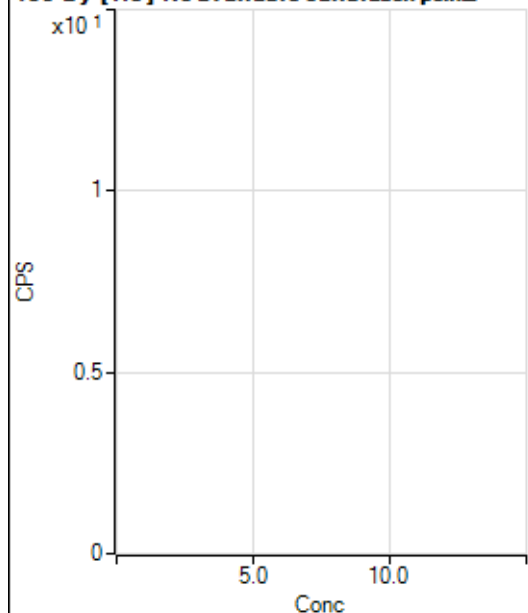
	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			8.89		P	43.3
2	☐			6.67		P	100.0
3	☐			11.11		P	69.3
4	☐			17.78		P	57.3
5	☐			40.00		P	44.1
6	☐			62.22		P	16.4
7	☐			124.45		P	21.6
8	☐			8.89		P	114.5

150 Nd [He] No available calibration points

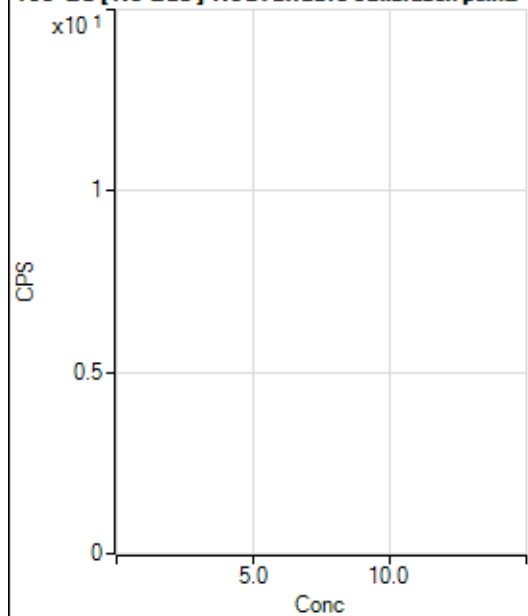
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t.	RSD
1	☐			2.22		P	86.6
2	☐			0.00		P	
3	☐			1.11		P	173.2
4	☐			2.22		P	86.6
5	☐			2.22		P	173.2
6	☐			10.00		P	57.7
7	☐			14.44		P	35.3
8	☐			4.44		P	114.6

156 Dy [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t.	RSD
1	☐			2.78		P	173.2
2	☐			16.67		P	50.0
3	☐			5.55		P	86.6
4	☐			5.56		P	173.2
5	☐			16.67		P	100.0
6	☐			25.00		P	100.0
7	☐			69.45		P	45.4
8	☐			155.56		P	29.5

156 Dy [He] No available calibration points

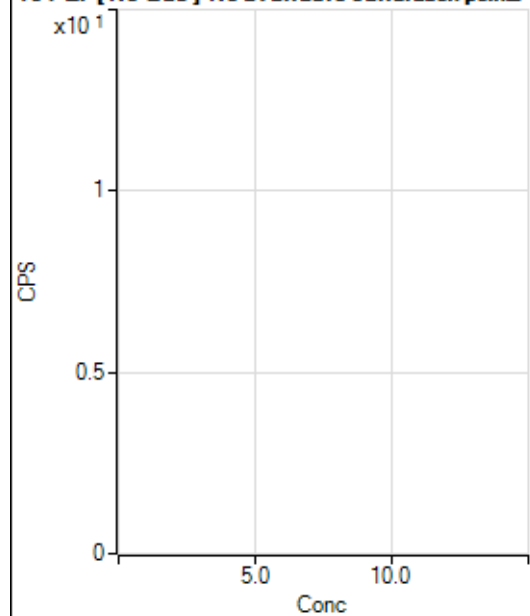
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t.	RSD
1	☐			0.00		P	
2	☐			1.11		P	173.2
3	☐			2.22		P	173.2
4	☐			5.55		P	69.3
5	☐			14.44		P	58.1
6	☐			17.78		P	28.6
7	☐			30.00		P	29.4
8	☐			97.78		P	5.2

160 Gd [No Gas] Noavailable calibration poin_

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t.	RSD
1	☐			25.00		P	33.3
2	☐			5.55		P	86.6
3	☐			33.33		P	0.0
4	☐			8.33		P	100.0
5	☐			22.22		P	57.3
6	☐			44.44		P	28.6
7	☐			41.67		P	20.0
8	☐			163.90		P	5.9

160 Gd [He] No available calibration points

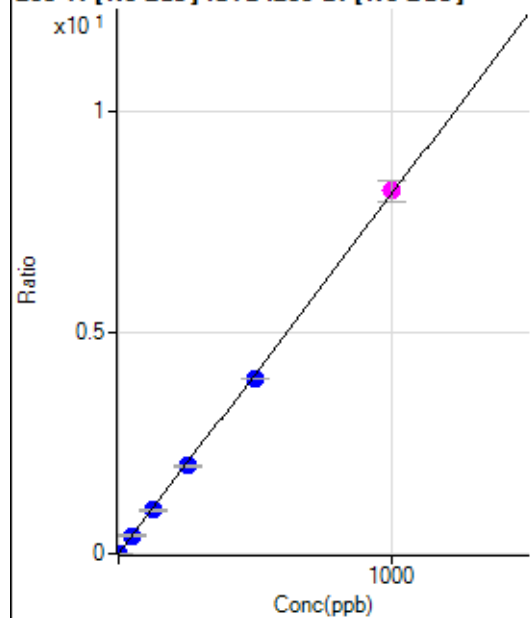
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t.	RSD
1	☐			0.00		P	
2	☐			2.22		P	86.6
3	☐			4.45		P	86.6
4	☐			10.00		P	120.2
5	☐			13.34		P	43.3
6	☐			17.78		P	21.7
7	☐			32.22		P	58.8
8	☐			122.23		P	15.0

164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t.	RSD
1	☐			11.11		P	114.6
2	☐			16.67		P	132.3
3	☐			5.56		P	173.2
4	☐			8.33		P	100.0
5	☐			13.89		P	69.3
6	☐			2.78		P	173.2
7	☐			5.55		P	86.6
8	☐			25.00		P	57.7

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			2.22		P	86.6
2	☐			0.00		P	
3	☐			3.33		P	100.1
4	☐			2.22		P	86.6
5	☐			3.33		P	173.2
6	☐			4.44		P	173.2
7	☐			6.67		P	173.2
8	☐			7.78		P	99.0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	25.00	0.0001	P	64.7
2	☐	1.000	0.949	1564.03	0.0078	P	5.6
3	☐	50.000	50.180	79087.94	0.4080	P	5.7
4	☐	125.000	120.806	200398.85	0.9821	P	3.0
5	☐	250.000	244.843	401058.62	1.9904	P	2.1
6	☐	500.000	485.963	806088.41	3.9504	P	0.2
7	☐	1000.000	1008.823	1642185.29	8.2006	M	5.9
8	☐			1113.97	0.0058	P	7.9

$$y = 0.0081 * x + 1.3057E-004$$

$$R = 0.9998$$

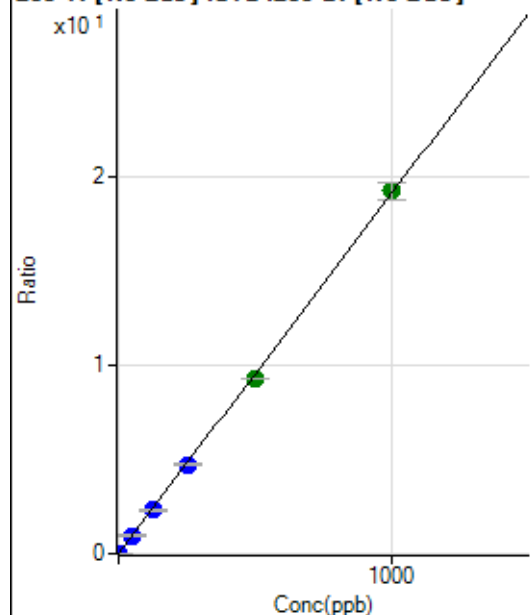
$$DL = 0.03118$$

$$BEC = 0.01606$$

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	27.78	0.0002	P	107.9
2	☐	1.000	0.845	3244.95	0.0163	P	4.4
3	☐	50.000	50.652	187381.16	0.9671	P	6.2
4	☐	125.000	120.611	469915.64	2.3027	P	1.7
5	☐	250.000	248.178	954805.62	4.7380	P	1.3
6	☐	500.000	486.292	1894386.93	9.2837	A	0.2
7	☐	1000.000	1007.826	3854324.70	19.2401	A	4.7
8	☐			2500.31	0.0131	P	13.4

$$y = 0.0191 * x + 1.5049E-004$$

$$R = 0.9999$$

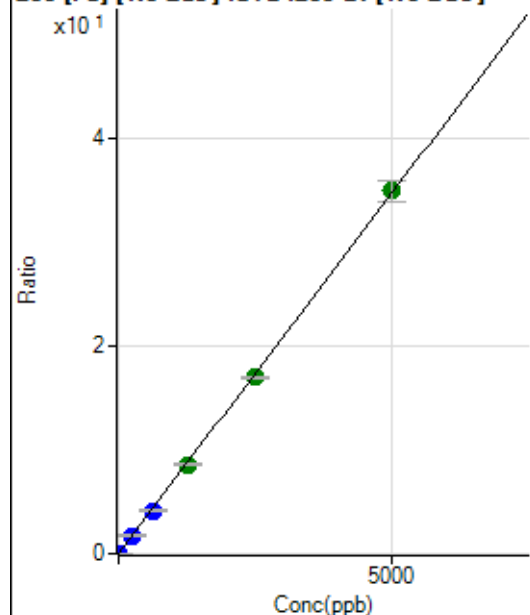
$$DL = 0.02551$$

$$BEC = 0.007883$$

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	401.87	0.0021	P	17.9
2	☐	1.000	0.844	1589.02	0.0080	P	9.8
3	☐	250.000	249.744	335709.25	1.7329	P	6.4
4	☐	625.000	595.676	842867.88	4.1302	P	1.8
5	☐	1250.000	1229.381	1717183.31	8.5218	A	2.2
6	☐	2500.000	2444.203	3456694.81	16.9406	A	1.0
7	☐	5000.000	5036.732	6990869.48	34.9070	A	5.6
8	☐			2022.42	0.0106	P	7.9

$$y = 0.0069 * x + 0.0021$$

$$R = 0.9999$$

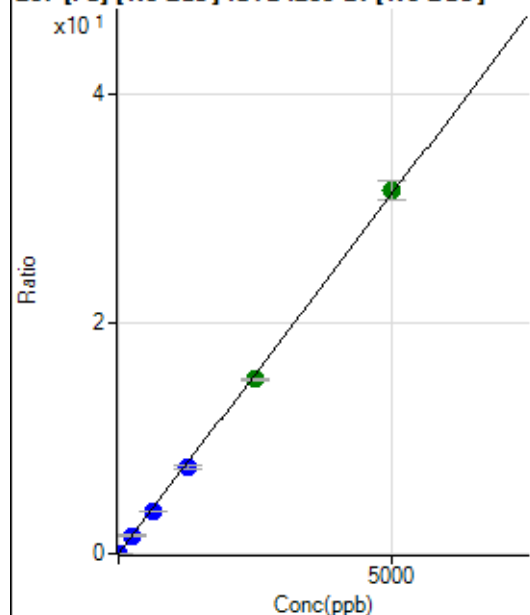
$$DL = 0.1653$$

$$BEC = 0.3081$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	368.53	0.0020	P	5.4
2	☐	1.000	0.800	1383.44	0.0069	P	12.3
3	☐	250.000	249.058	301519.33	1.5566	P	6.8
4	☐	625.000	595.517	759045.68	3.7193	P	1.4
5	☐	1250.000	1205.237	1516103.29	7.5254	P	3.3
6	☐	2500.000	2430.430	3096266.24	15.1734	A	1.2
7	☐	5000.000	5049.708	6313669.47	31.5236	A	5.4
8	☐			1763.12	0.0092	P	13.5

$$y = 0.0062 * x + 0.0020$$

$$R = 0.9998$$

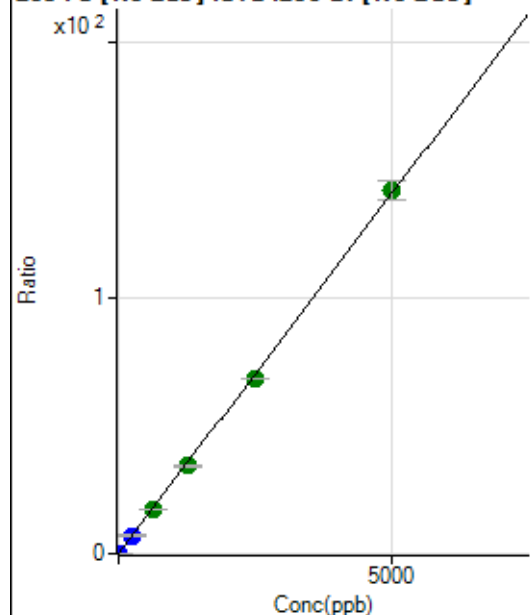
$$DL = 0.05047$$

$$BEC = 0.3132$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	1635.26	0.0087	P	10.5
2	☐	1.000	0.816	6297.02	0.0316	P	5.9
3	☐	250.000	247.537	1349350.20	6.9652	P	6.5
4	☐	625.000	606.411	3479970.05	17.0506	A	0.6
5	☐	1250.000	1221.888	6920366.80	34.3473	A	2.8
6	☐	2500.000	2433.288	13955419.55	68.3911	A	0.9
7	☐	5000.000	5042.830	28386646.70	141.7268	A	5.2
8	☐			7776.96	0.0407	P	7.0

$$y = 0.0281 * x + 0.0087$$

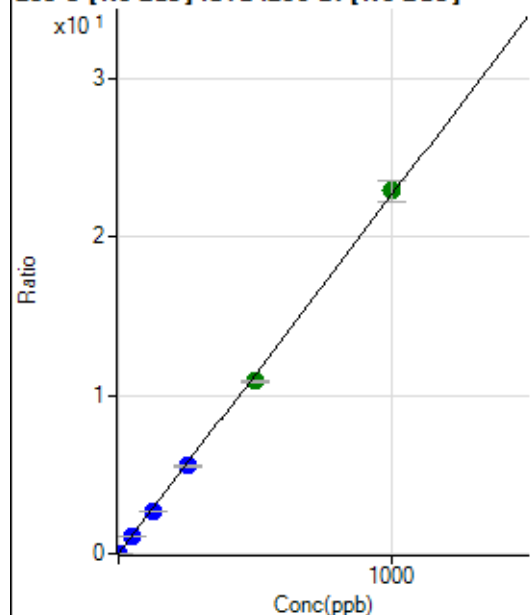
$$R = 0.9998$$

$$DL = 0.09705$$

$$BEC = 0.3092$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	33.33	0.0002	P	28.6
2	☐	1.000	0.842	3825.70	0.0192	P	8.8
3	☐	50.000	49.710	217961.56	1.1243	P	4.7
4	☐	125.000	119.047	549398.80	2.6922	P	2.1
5	☐	250.000	244.225	1112892.86	5.5229	P	2.1
6	☐	500.000	480.608	2217650.23	10.8683	A	0.8
7	☐	1000.000	1011.898	4582247.20	22.8825	A	5.9
8	☐			450.02	0.0024	P	17.5

$$y = 0.0226 * x + 1.7785E-004$$

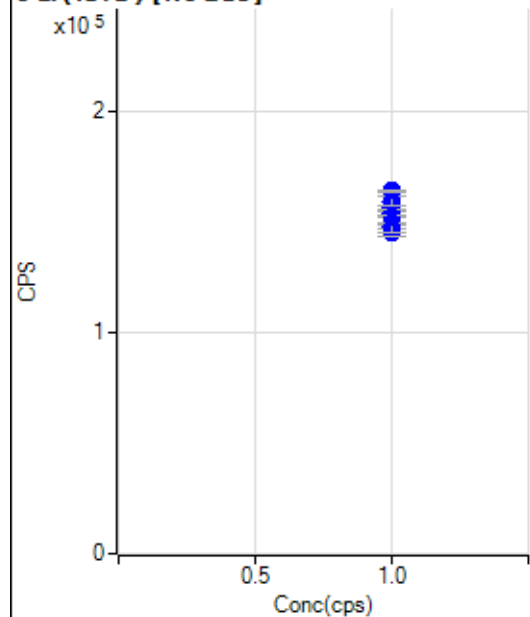
$$R = 0.9997$$

$$DL = 0.006736$$

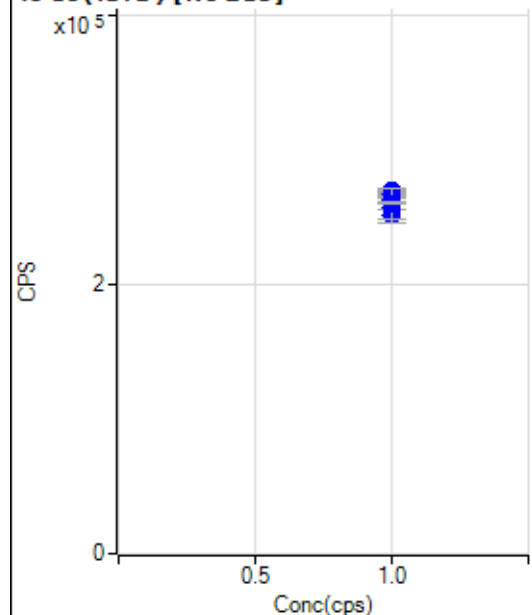
$$BEC = 0.007865$$

Weight: <None>

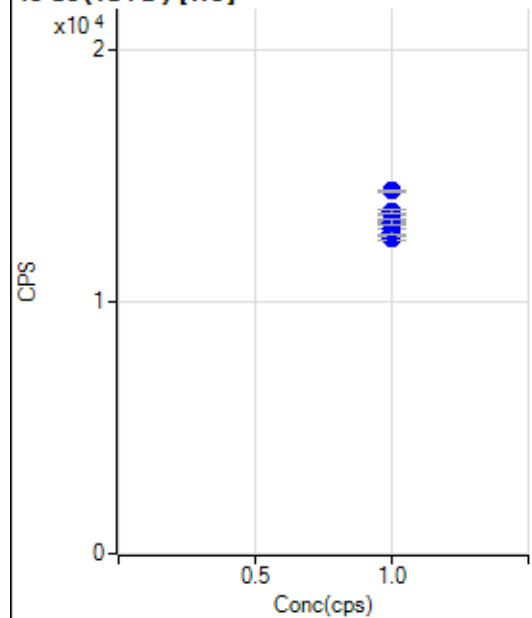
Min Conc: 0

6 Li (ISTD) [No Gas]

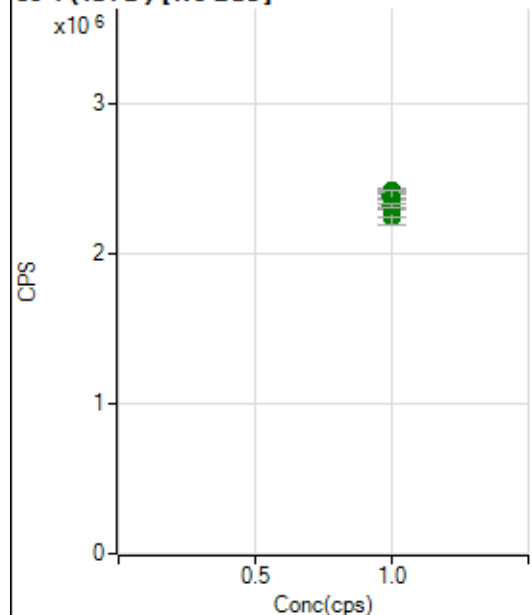
	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		145179.10		P	2.3
2	☐	1.000		149378.09		P	0.8
3	☐	1.000		147584.28		P	3.1
4	☐	1.000		152730.55		P	0.8
5	☐	1.000		154125.28		P	0.6
6	☐	1.000		156897.17		P	0.9
7	☐	1.000		159621.98		P	2.8
8	☐	1.000		164248.95		P	0.7

45 Sc (ISTD) [No Gas]

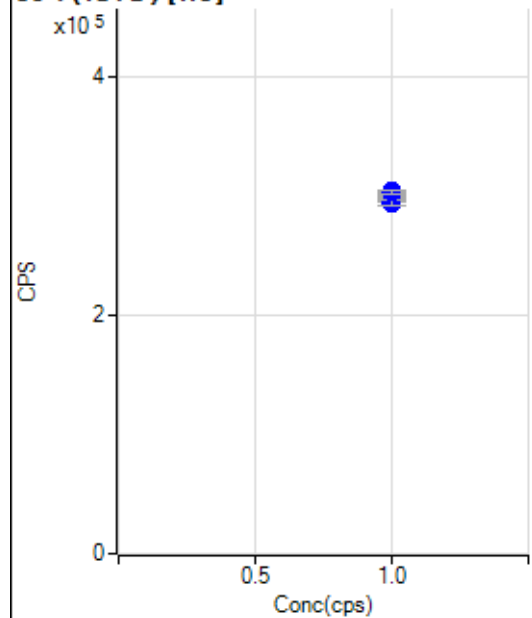
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		250535.92		P	3.5
2	☐	1.000		262625.65		P	1.3
3	☐	1.000		256470.71		P	5.9
4	☐	1.000		269240.65		P	1.4
5	☐	1.000		268531.12		P	2.2
6	☐	1.000		268995.14		P	0.6
7	☐	1.000		266604.49		P	3.9
8	☐	1.000		260394.00		P	0.6

45 Sc (ISTD) [He]

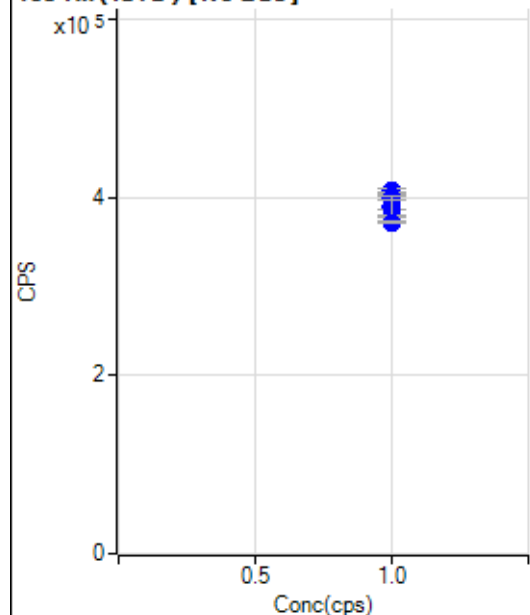
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		12552.24		P	1.6
2	☐	1.000		12780.24		P	2.6
3	☐	1.000		12891.40		P	2.5
4	☐	1.000		13307.38		P	2.6
5	☐	1.000		12949.28		P	4.0
6	☐	1.000		13597.63		P	1.1
7	☐	1.000		14423.97		P	0.6
8	☐	1.000		13171.66		P	1.5

89 Y (ISTD) [No Gas]

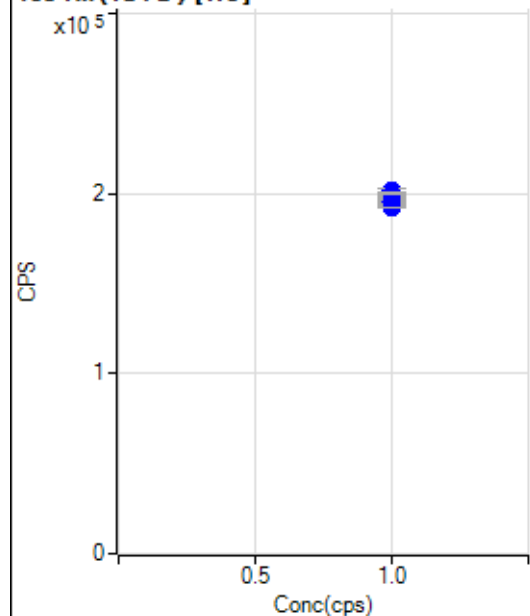
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		2244570.94		A	4.4
2	☐	1.000		2388714.13		A	1.3
3	☐	1.000		2305976.67		A	5.3
4	☐	1.000		2417166.70		A	1.2
5	☐	1.000		2392703.52		A	2.5
6	☐	1.000		2419718.20		A	0.9
7	☐	1.000		2368159.43		A	5.1
8	☐	1.000		2324758.00		A	1.0

89 Y (ISTD) [He]

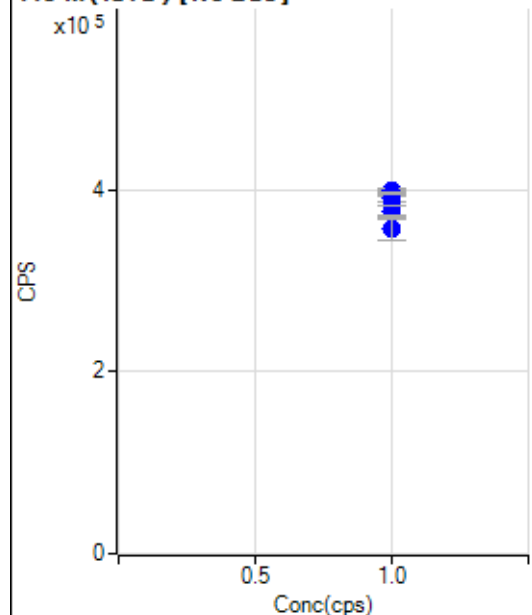
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		292953.36		P	0.9
2	☐	1.000		297405.60		P	0.9
3	☐	1.000		294584.62		P	1.8
4	☐	1.000		298964.75		P	0.7
5	☐	1.000		294278.12		P	1.9
6	☐	1.000		302192.27		P	1.1
7	☐	1.000		303986.21		P	0.4
8	☐	1.000		302735.12		P	0.8

103 Rh (ISTD) [No Gas]

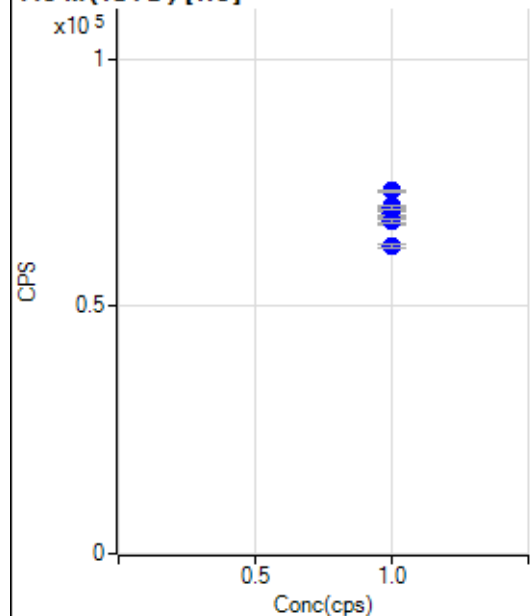
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		378260.17		P	4.3
2	☐	1.000		399708.21		P	1.7
3	☐	1.000		390141.65		P	5.8
4	☐	1.000		407034.20		P	1.5
5	☐	1.000		401536.30		P	1.8
6	☐	1.000		399156.33		P	1.0
7	☐	1.000		387435.69		P	5.3
8	☐	1.000		372058.38		P	1.0

103 Rh (ISTD) [He]

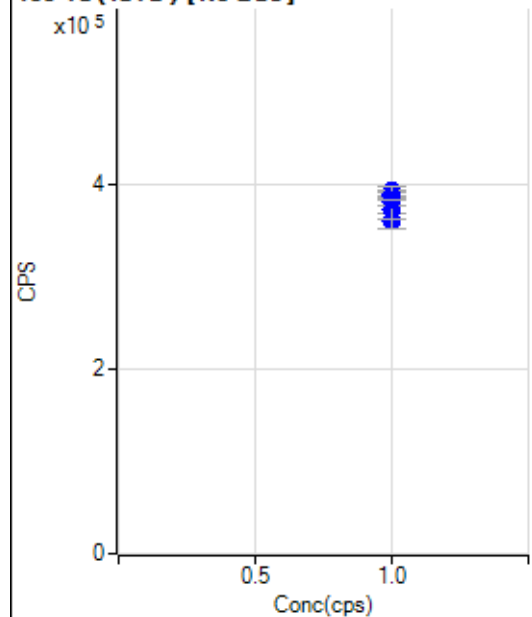
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		194451.20		P	1.0
2	☐	1.000		196495.62		P	1.5
3	☐	1.000		194379.21		P	2.2
4	☐	1.000		199832.71		P	0.9
5	☐	1.000		195697.43		P	2.0
6	☐	1.000		201248.42		P	1.0
7	☐	1.000		199911.96		P	0.2
8	☐	1.000		192152.84		P	0.2

115 In (ISTD) [No Gas]

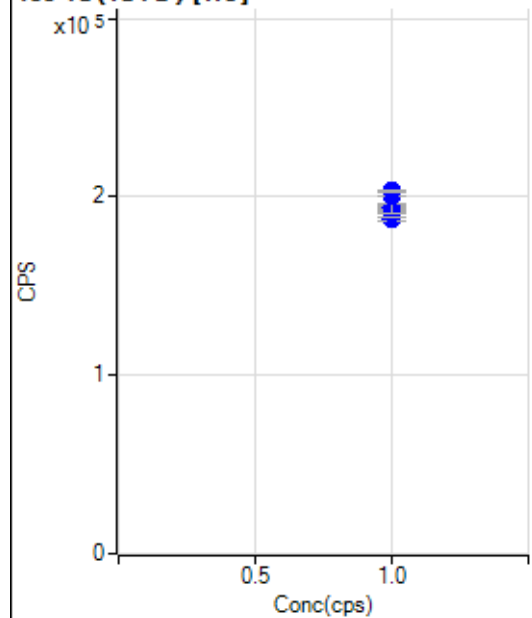
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		375920.06		P	3.0
2	☐	1.000		395952.29		P	1.5
3	☐	1.000		382281.83		P	6.0
4	☐	1.000		398350.70		P	1.7
5	☐	1.000		389821.67		P	1.9
6	☐	1.000		381758.50		P	0.3
7	☐	1.000		355912.78		P	6.2
8	☐	1.000		395715.09		P	0.4

115 In (ISTD) [He]

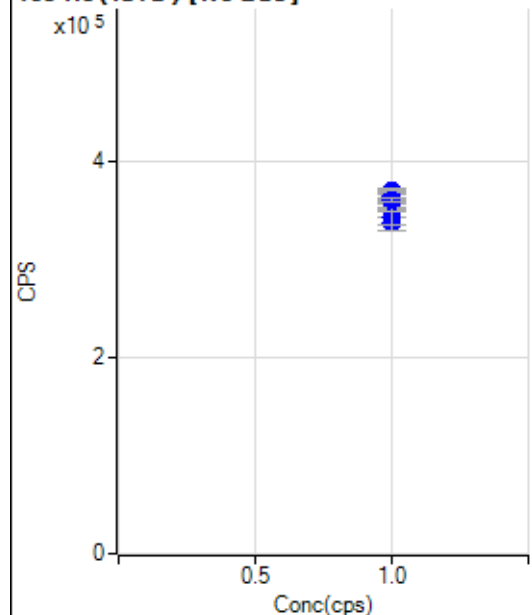
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		69846.70		P	0.8
2	☐	1.000		70412.93		P	0.5
3	☐	1.000		68798.82		P	1.4
4	☐	1.000		70019.09		P	0.7
5	☐	1.000		67216.86		P	2.4
6	☐	1.000		67382.34		P	0.9
7	☐	1.000		62197.46		P	1.3
8	☐	1.000		73402.12		P	0.6

159 Tb (ISTD) [No Gas]

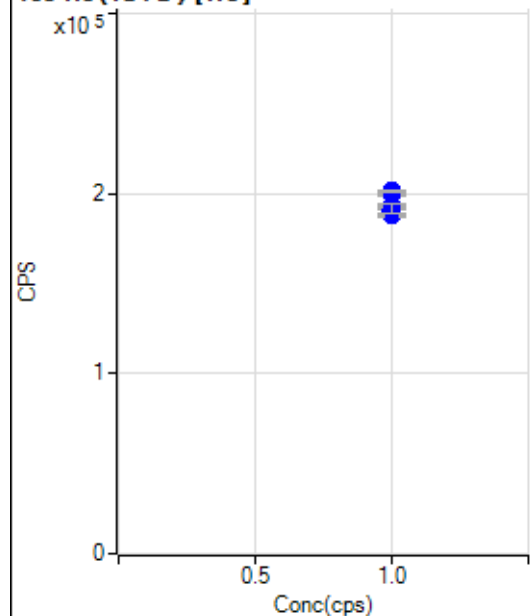
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		358959.62		P	4.5
2	☐	1.000		379881.16		P	2.0
3	☐	1.000		371928.78		P	5.9
4	☐	1.000		390091.89		P	1.4
5	☐	1.000		388081.07		P	1.3
6	☐	1.000		392161.27		P	0.8
7	☐	1.000		386560.88		P	5.7
8	☐	1.000		382463.68		P	0.4

159 Tb (ISTD) [He]

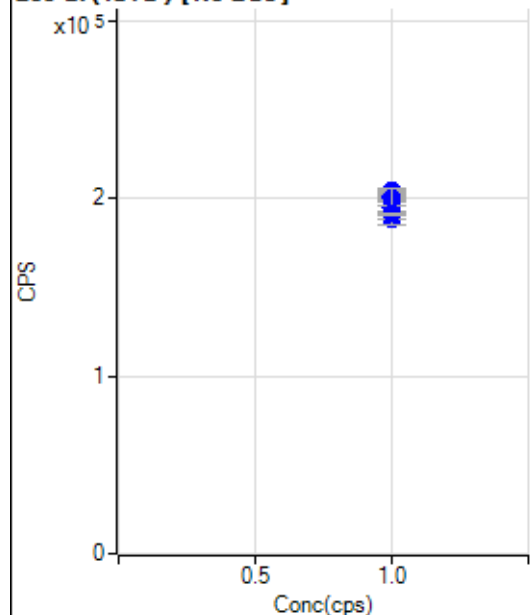
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		187480.87		P	1.2
2	☐	1.000		193617.05		P	0.4
3	☐	1.000		190504.99		P	2.0
4	☐	1.000		194359.51		P	0.4
5	☐	1.000		193546.71		P	2.8
6	☐	1.000		200737.18		P	0.2
7	☐	1.000		200532.80		P	0.5
8	☐	1.000		203403.67		P	0.5

165 Ho (ISTD) [No Gas]

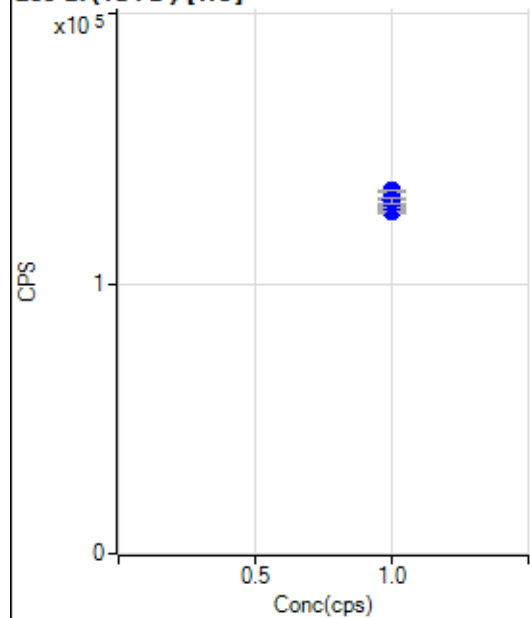
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		336224.02		P	3.7
2	☐	1.000		353625.31		P	1.6
3	☐	1.000		343643.01		P	5.4
4	☐	1.000		365307.50		P	2.3
5	☐	1.000		363106.70		P	1.6
6	☐	1.000		369731.90		P	0.3
7	☐	1.000		360308.23		P	6.4
8	☐	1.000		361113.07		P	1.0

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		187799.63		P	0.9
2	☐	1.000		190212.72		P	1.2
3	☐	1.000		189989.26		P	1.9
4	☐	1.000		193239.21		P	0.6
5	☐	1.000		191861.37		P	3.2
6	☐	1.000		199689.95		P	0.6
7	☐	1.000		201201.16		P	0.6
8	☐	1.000		201666.56		P	0.2

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		188680.85		P	3.6
2	☐	1.000		199207.67		P	1.6
3	☐	1.000		194225.88		P	6.0
4	☐	1.000		204109.69		P	1.6
5	☐	1.000		201555.51		P	2.1
6	☐	1.000		204053.03		P	0.5
7	☐	1.000		200627.06		P	4.8
8	☐	1.000		191003.25		P	0.4

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		126900.19		P	0.9
2	☐	1.000		128437.28		P	0.8
3	☐	1.000		127961.69		P	2.2
4	☐	1.000		131845.59		P	0.3
5	☐	1.000		129837.13		P	2.0
6	☐	1.000		134473.98		P	0.9
7	☐	1.000		134250.77		P	0.6
8	☐	1.000		130802.56		P	1.3

US EPA Tune Check Report

Operator Name Jaswal
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\P8091620M.b
Acq. Date-Time 2020-09-16 10:39:31
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		2662	26615.39			1.336	5.000
24		48316	483160.74			1.229	5.000
25		6299	62993.50			1.643	5.000
26		7501	75012.30			1.445	5.000
59		19229	192290.64			1.702	5.000
113		2697	26972.75			1.372	5.000
115		8144	81440.63			1.462	5.000
206		2485	24854.60			0.932	5.000
207		2055	20550.61			1.168	5.000
208		5072	50722.82			1.146	5.000
220		1	10.40			23.651	

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

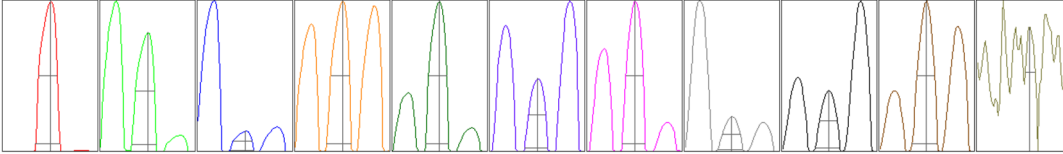
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	2692	2657	2680	2602	2677
24	48495	48295	48637	47315	48839
25	6335	6316	6366	6118	6362
26	7563	7525	7549	7309	7559
59	19323	19363	19255	18673	19531
113	2727	2721	2707	2634	2697
115	8227	8206	8214	7942	8131
206	2481	2495	2507	2447	2497
207	2060	2049	2055	2023	2090
208	5058	5078	5087	4988	5150

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	4854.89	9.05	8.90 - 9.10	
24	85026.73	24.05	23.90 - 24.10	
25	11338.22	25.05	24.90 - 25.10	
26	13397.33	26.05	25.90 - 26.10	
59	35837.16	59.00	58.90 - 59.10	
113	5200.81	113.05	112.90 - 113.10	
115	15875.68	115.05	114.90 - 115.10	
206	4651.63	206.00	205.90 - 206.10	
207	3836.74	207.00	206.90 - 207.10	
208	9531.65	208.00	207.90 - 208.10	
220	1.40	220.20	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.59	0.773	0.900	
24	0.60	0.782	0.900	
25	0.60	0.741	0.900	
26	0.59	0.780	0.900	
59	0.57	0.734	0.900	
113	0.54	0.727	0.900	
115	0.54	0.726	0.900	
206	0.55	0.787	0.900	
207	0.56	0.785	0.900	
208	0.56	0.805	0.900	
220	0.30			

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 0.46 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	9.8 V	Deflect	13.4 V
Extract 2	-250.0 V	Cell Entrance	-30 V	Plate Bias	-50 V
Omega Bias	-120 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	122	Axis Gain	0.9992	QP Bias	-4.0 V
Mass Offset	125	Axis Offset	0.01		

Hardware Settings

Torch

Torch H	0.7 mm	Torch V	-0.2 mm
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EM

Discriminator	3.9 mV	Analog HV	2183 V	Pulse HV	1296 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		4700	46997.40			2.001	
89		2765	27651.22			1.719	
205		7343	73429.66			1.720	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	4764	4619	4578	4784	4754
89	2826	2716	2718	2792	2774
205	7421	7150	7296	7474	7374

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	HMI	Nebulizer Gas	0.51 L/min	Dilution Gas	0.46 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	9.8 V	Deflect	4.4 V
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US EPA Tune Check Report

Extract 2	-250.0 V	Cell Entrance	-50 V	Plate Bias	-60 V
Omega Bias	-120 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	122	Axis Gain	0.9992	QP Bias	-13.0 V
Mass Offset	125	Axis Offset	0.01		
Hardware Settings					
Torch					
Torch H	0.7 mm	Torch V	-0.2 mm		
EM					
Discriminator	3.9 mV	Analog HV	2183 V	Pulse HV	1296 V