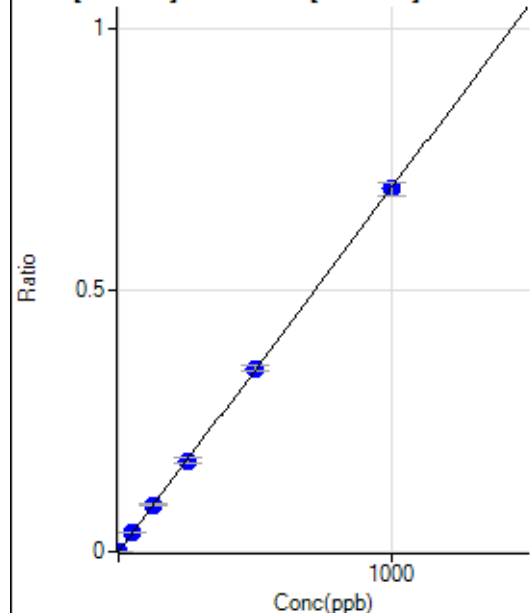


Batch Folder: D:\Agilent\ICPMH\1\DATA\P8082420M.b\
Analysis File: P8082420M.batch.bin
DA Date-Time: 2020-08-25 10:53:38
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	003CALB.d	S00	2020-08-24 15:24:28
2	004CAL.S.d	S02	2020-08-24 15:27:34
3	005CAL.S.d	S03	2020-08-24 15:30:38
4	006CAL.S.d	S04	2020-08-24 15:33:43
5	007CAL.S.d	S05	2020-08-24 15:36:42
6	008CAL.S.d	S06	2020-08-24 15:39:43
7	009CAL.S.d	S07	2020-08-24 15:42:41
8	011CAL.S.d	S08	2020-08-24 15:58:54

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	36.66	0.0000	P	16.2
2	☐	1.000	0.912	727.21	0.0007	P	2.9
3	☐	50.000	51.138	39173.91	0.0356	P	1.8
4	☐	125.000	129.128	101233.66	0.0897	P	3.4
5	☐	250.000	250.321	203096.31	0.1739	P	5.2
6	☐	500.000	504.229	394886.91	0.3503	P	3.3
7	☐	1000.000	997.232	785030.14	0.6927	P	3.4
8	☐			91.31	0.0001	P	4.7

$$y = 6.9456E-004 * x + 3.4079E-005$$

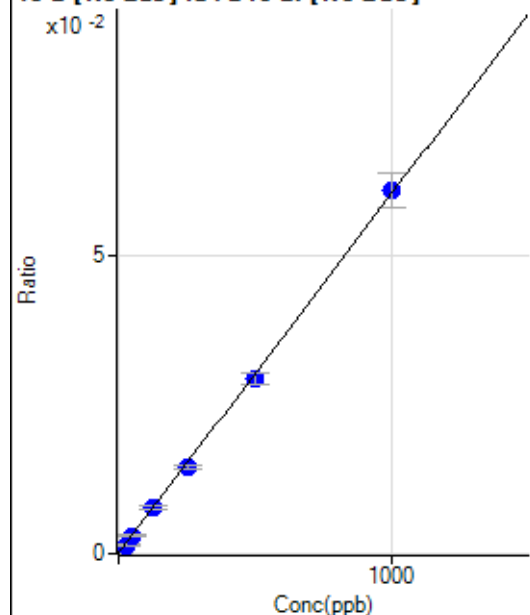
$$R = 1.0000$$

$$DL = 0.02381$$

$$BEC = 0.04907$$

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	97.32	0.0001	P	25.6
2	☐	25.000	22.153	1555.11	0.0014	P	6.2
3	☐	50.000	49.284	3372.39	0.0031	P	8.3
4	☐	125.000	127.997	8798.25	0.0078	P	8.9
5	☐	250.000	240.693	17089.24	0.0146	P	3.9
6	☐	500.000	487.370	33234.87	0.0295	P	6.8
7	☐	1000.000	1008.374	68926.23	0.0609	P	9.4
8	☐			1215.15	0.0010	P	5.3

$$y = 6.0266E-005 * x + 9.0443E-005$$

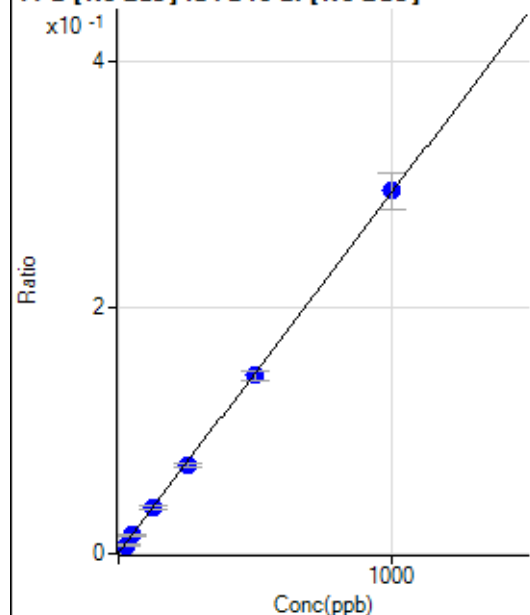
$$R = 0.9998$$

$$DL = 1.152$$

$$BEC = 1.501$$

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	482.58	0.0004	P	6.3
2	☐	25.000	21.915	7491.12	0.0069	P	7.8
3	☐	50.000	50.758	16872.35	0.0153	P	7.6
4	☐	125.000	125.481	41910.65	0.0372	P	10.9
5	☐	250.000	243.022	83815.28	0.0716	P	4.5
6	☐	500.000	492.870	163289.83	0.1447	P	6.1
7	☐	1000.000	1005.289	333798.09	0.2948	P	10.4
8	☐			5898.70	0.0051	P	5.0

$$y = 2.9277\text{E-}004 * x + 4.4904\text{E-}004$$

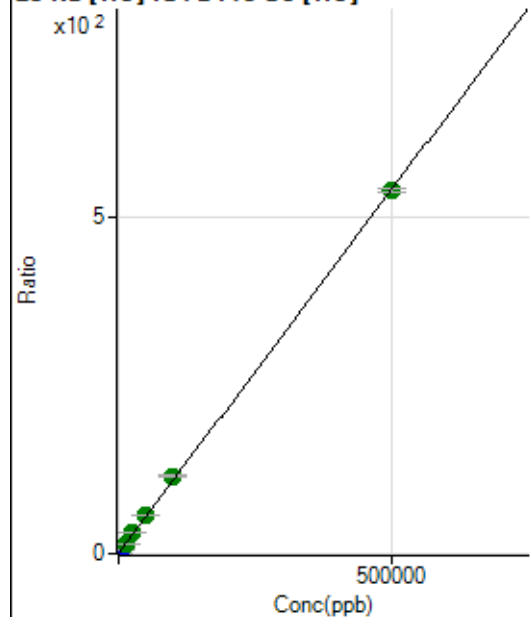
R = 0.9999

DL = 0.2907

BEC = 1.534

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	45190.10	0.4089	P	1.3
2	☐	500.000	508.173	108431.79	0.9597	P	2.2
3	☐	5000.000	5556.556	739715.15	6.4311	P	1.6
4	☐	12500.000	13663.360	1798304.36	15.2172	A	2.8
5	☐	25000.000	28290.933	3565426.29	31.0704	A	1.0
6	☐	50000.000	52230.084	6761633.05	57.0155	A	2.9
7	☐	100000.00	105899.54	13585714.89	115.1822	A	1.8
8	☐	500000.00	498397.87	66482664.68	540.5695	A	1.0

$$y = 0.0011 * x + 0.4089$$

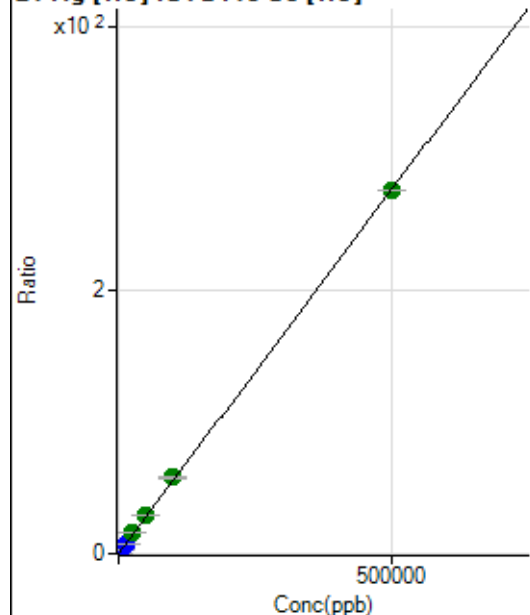
R = 0.9999

DL = 14.99

BEC = 377.3

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	375.01	0.0034	P	10.5
2	☐	500.000	511.291	32306.07	0.2859	P	3.6
3	☐	5000.000	5514.064	350860.43	3.0502	P	1.6
4	☐	12500.000	13773.887	899870.37	7.6143	P	2.5
5	☐	25000.000	28482.407	1806410.41	15.7416	A	1.5
6	☐	50000.000	52188.624	3420900.42	28.8407	A	2.1
7	☐	100000.00	104936.60	6839423.42	57.9870	A	2.1
8	☐	500000.00	498582.69	33884026.10	275.4996	A	0.0

$$y = 5.5256\text{E-}004 * x + 0.0034$$

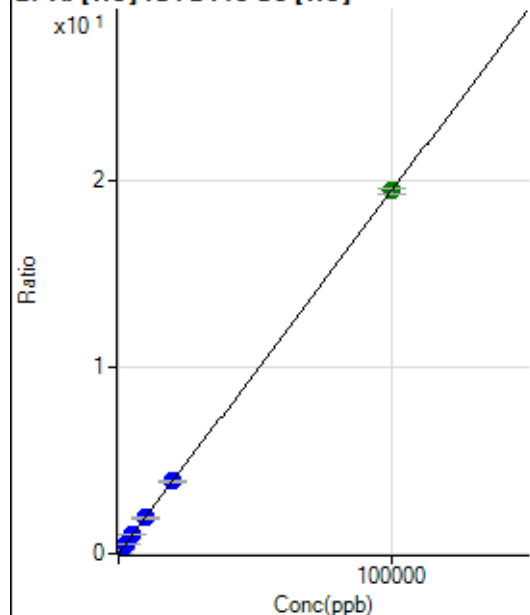
$$R = 0.9999$$

$$DL = 1.927$$

$$BEC = 6.137$$

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	619.89	0.0056	P	1.5
2	☐	20.000	18.972	1049.83	0.0093	P	2.3
3	☐	1000.000	1018.072	23373.41	0.2032	P	0.3
4	☐	2500.000	2551.358	59154.78	0.5008	P	4.2
5	☐	5000.000	5286.573	118374.09	1.0316	P	1.1
6	☐	10000.000	9898.823	228509.12	1.9267	P	2.6
7	☐	20000.000	19893.248	456069.52	3.8664	P	1.2
8	☐	100000.00	100015.67	2387922.90	19.4160	A	1.6

$$y = 1.9407\text{E-}004 * x + 0.0056$$

$$R = 1.0000$$

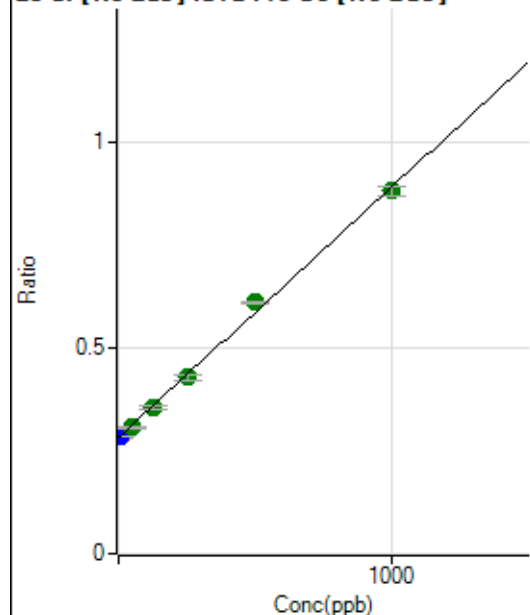
$$DL = 1.318$$

$$BEC = 28.9$$

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	771557.83	0.2831	P	3.2
2	☐	10.000	3.427	788291.10	0.2852	P	1.4
3	☐	50.000	39.381	855274.34	0.3070	A	1.3
4	☐	125.000	119.722	1021827.45	0.3559	A	2.0
5	☐	250.000	240.451	1264007.21	0.4293	A	3.1
6	☐	500.000	538.003	1756270.31	0.6102	A	1.4
7	☐	1000.000	984.642	2563310.80	0.8818	A	2.7
8	☐			886523.93	0.3025	A	2.4

$$y = 6.0808\text{E-}004 * x + 0.2831$$

R = 0.9988

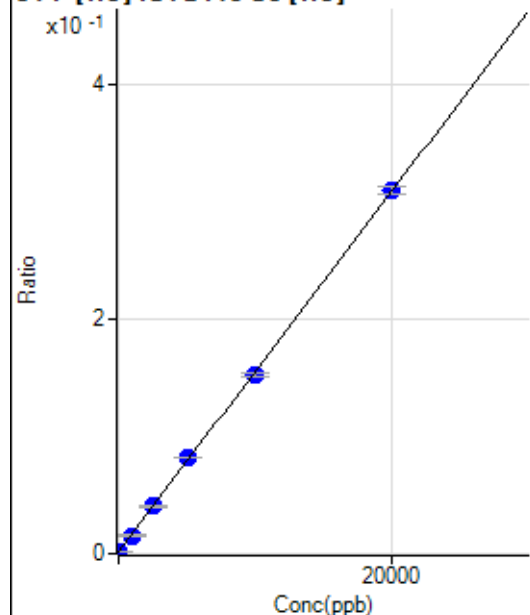
DL = 44.26

BEC = 465.5

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	-7.475	180.56	0.0016	P	14.8
2	☐	0.000	7.475	211.12	0.0019	P	31.1
3	☐	1000.000	898.502	1786.27	0.0155	P	4.3
4	☐	2500.000	2503.736	4739.80	0.0401	P	7.0
5	☐	5000.000	5248.065	9436.63	0.0822	P	1.0
6	☐	10000.000	9808.453	18047.69	0.1522	P	2.9
7	☐	20000.000	20038.365	36454.71	0.3091	P	2.2
8	☐			213.90	0.0017	P	16.3

$$y = 1.5337\text{E-}005 * x + 0.0017$$

R = 0.9998

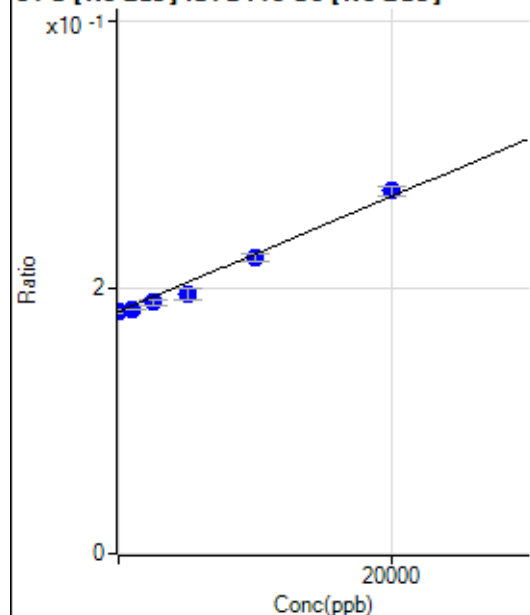
DL = 80.19

BEC = 114

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	52.547	496829.21	0.1823	P	4.0
2	☐	0.000	-52.547	502695.41	0.1819	P	1.8
3	☐	1000.000	320.590	511088.30	0.1835	P	0.4
4	☐	2500.000	1529.183	541792.47	0.1887	P	2.0
5	☐	5000.000	2977.400	573812.37	0.1950	P	4.6
6	☐	10000.000	9441.273	641459.22	0.2229	P	2.6
7	☐	20000.000	20940.336	792572.40	0.2727	P	2.9
8	☐			514192.06	0.1755	P	3.2

$$y = 4.3262\text{E-}006 * x + 0.1821$$

$$R = 0.9943$$

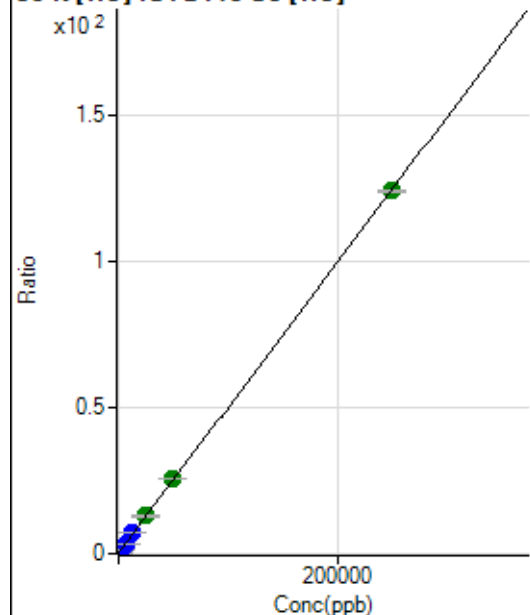
$$DL = 3697$$

$$BEC = 4.209\text{E}+04$$

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	31473.79	0.2848	P	3.4
2	☐	500.000	471.801	58619.44	0.5188	P	2.4
3	☐	2500.000	2625.791	182548.05	1.5869	P	0.0
4	☐	6250.000	6568.347	418472.83	3.5420	P	3.7
5	☐	12500.000	13680.147	811127.19	7.0686	P	0.7
6	☐	25000.000	25755.085	1548125.13	13.0564	A	3.7
7	☐	50000.000	51423.763	3041862.94	25.7850	A	0.2
8	☐	250000.00	249571.57	15256261.80	124.0433	A	0.4

$$y = 4.9588\text{E-}004 * x + 0.2848$$

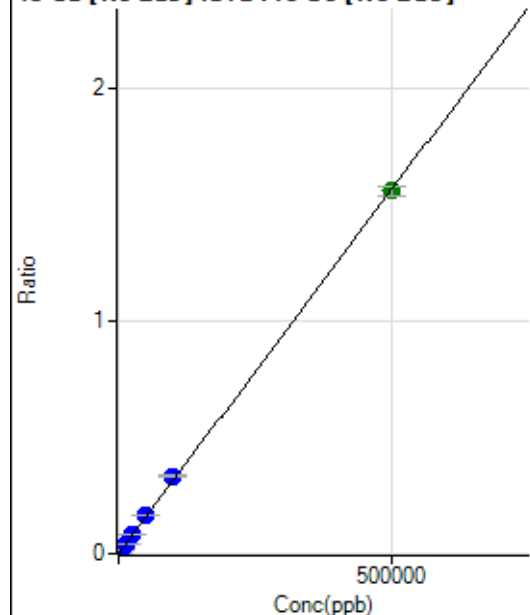
$$R = 1.0000$$

$$DL = 59.3$$

$$BEC = 574.4$$

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	350.01	0.0001	P	27.9
2	☐	500.000	503.962	4720.36	0.0017	P	2.4
3	☐	5000.000	5304.603	46654.30	0.0167	P	2.7
4	☐	12500.000	13299.755	120007.27	0.0418	P	2.9
5	☐	25000.000	26310.432	242969.45	0.0826	P	5.3
6	☐	50000.000	52708.425	475595.52	0.1653	P	2.8
7	☐	100000.00	106214.03	967773.22	0.3329	P	2.4
8	☐	500000.00	498397.78	4575671.80	1.5617	A	2.9

$$y = 3.1332\text{E-}006 * x + 1.2860\text{E-}004$$

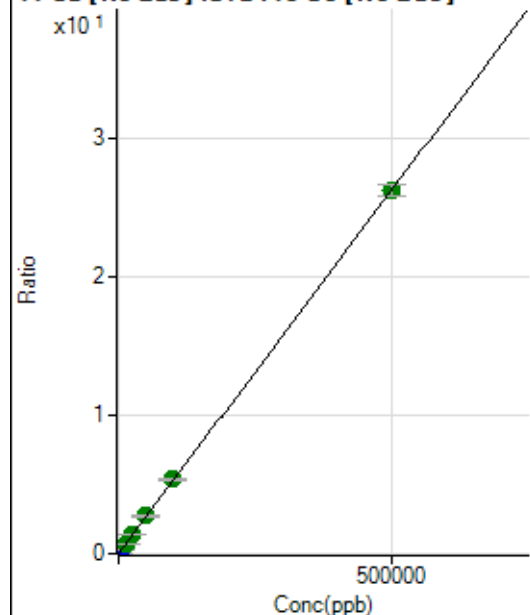
$$R = 0.9999$$

$$DL = 34.38$$

$$BEC = 41.04$$

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	31123.37	0.0114	P	2.9
2	☐	500.000	504.278	104797.41	0.0379	P	1.8
3	☐	5000.000	5367.802	817429.34	0.2934	P	1.4
4	☐	12500.000	13089.812	2007346.44	0.6991	A	2.4
5	☐	25000.000	25768.003	4016499.79	1.3652	A	6.2
6	☐	50000.000	51535.614	7824334.98	2.7190	A	2.4
7	☐	100000.00	102442.02	15679973.62	5.3936	A	1.7
8	☐	500000.00	499301.20	76885447.55	26.2442	A	3.3

$$y = 5.2539\text{E-}005 * x + 0.0114$$

$$R = 1.0000$$

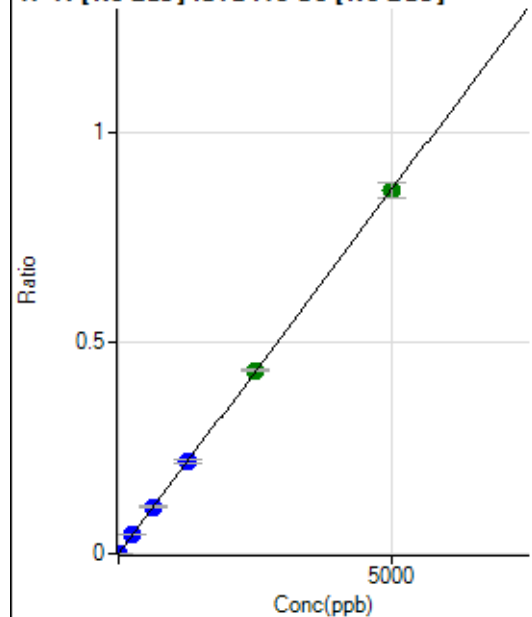
$$DL = 18.72$$

$$BEC = 217.3$$

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	436.13	0.0002	P	21.8
2	☐	5.000	4.907	2783.68	0.0010	P	6.1
3	☐	250.000	259.474	125176.81	0.0449	P	2.3
4	☐	625.000	642.724	318941.43	0.1111	P	1.7
5	☐	1250.000	1264.554	642820.06	0.2184	P	4.3
6	☐	2500.000	2518.809	1251740.16	0.4348	A	0.9
7	☐	5000.000	4984.268	2500188.95	0.8603	A	4.3
8	☐			569.47	0.0002	P	8.6

$$y = 1.7257E-004 * x + 1.6055E-004$$

$$R = 1.0000$$

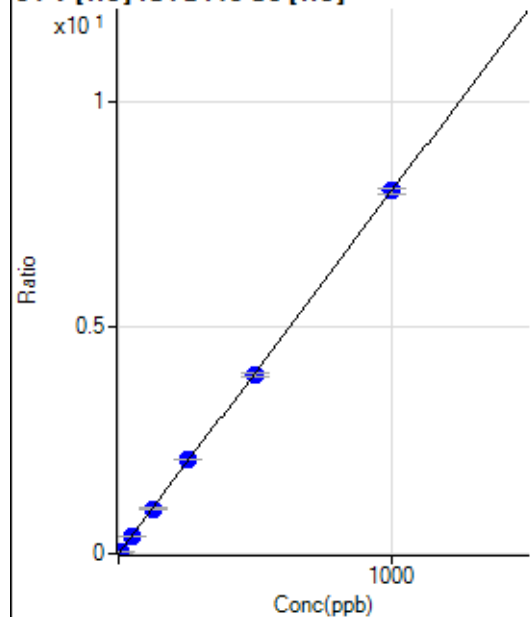
$$DL = 0.6092$$

$$BEC = 0.9304$$

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	0.0001	P	57.1
2	☐	5.000	4.793	4354.03	0.0385	P	4.5
3	☐	50.000	50.003	46107.36	0.4008	P	0.3
4	☐	125.000	123.910	117301.33	0.9931	P	4.6
5	☐	250.000	259.893	238994.09	2.0827	P	0.6
6	☐	500.000	493.804	469288.32	3.9571	P	2.9
7	☐	1000.000	1000.762	945926.86	8.0196	P	1.6
8	☐			400.01	0.0033	P	2.6

$$y = 0.0080 * x + 1.3026E-004$$

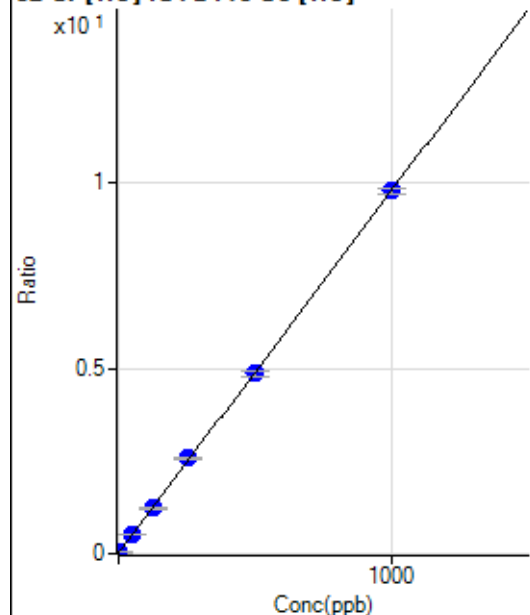
$$R = 0.9999$$

$$DL = 0.02785$$

$$BEC = 0.01626$$

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	1327.85	0.0120	P	4.3
2	☐	2.000	1.846	3397.10	0.0301	P	1.4
3	☐	50.000	50.368	58040.57	0.5046	P	1.6
4	☐	125.000	125.789	146751.96	1.2421	P	3.8
5	☐	250.000	261.672	295020.63	2.5710	P	0.3
6	☐	500.000	494.775	575228.83	4.8506	P	3.1
7	☐	1000.000	999.578	1154451.14	9.7872	P	1.4
8	☐			5923.50	0.0482	P	0.9

$$y = 0.0098 * x + 0.0120$$

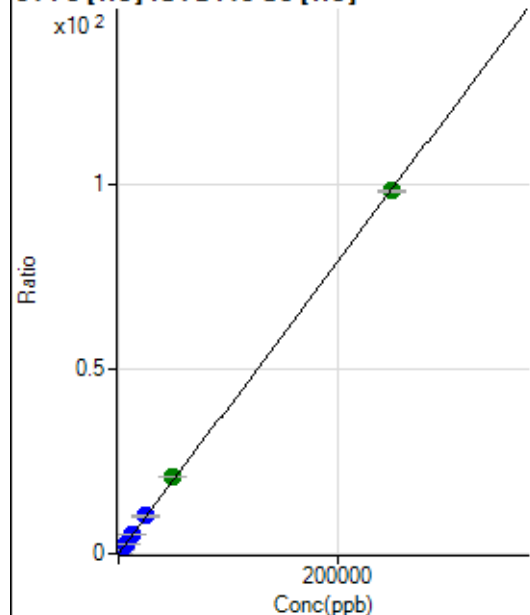
$$R = 0.9999$$

$$DL = 0.1574$$

$$BEC = 1.229$$

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	418.53	0.0038	P	6.4
2	☐	50.000	50.953	2696.59	0.0239	P	2.8
3	☐	2500.000	2634.524	119848.29	1.0420	P	1.7
4	☐	6250.000	6584.904	306988.02	2.5987	P	4.1
5	☐	12500.000	13805.228	624671.53	5.4439	P	0.4
6	☐	25000.000	25956.134	1213455.97	10.2322	P	2.9
7	☐	50000.000	52974.140	2462882.49	20.8790	A	1.0
8	☐	250000.00	249234.57	12079692.75	98.2181	A	0.6

$$y = 3.9406E-004 * x + 0.0038$$

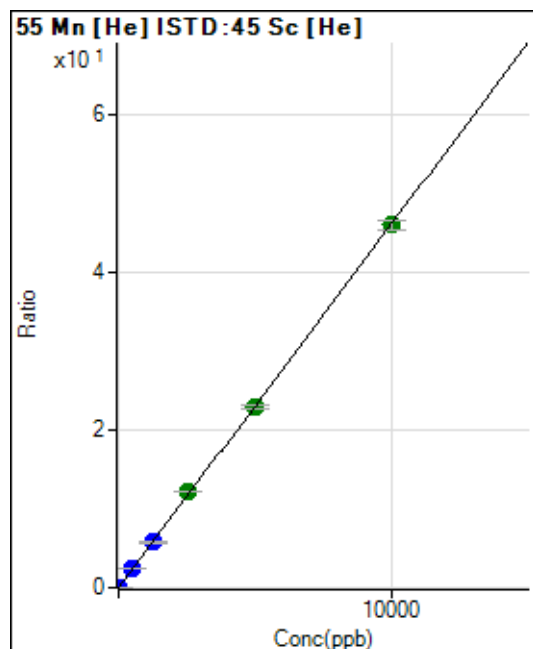
$$R = 0.9999$$

$$DL = 1.849$$

$$BEC = 9.614$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	76.67	0.0007	P	7.7
2	☐	1.000	0.906	550.01	0.0049	P	4.1
3	☐	500.000	509.750	270119.55	2.3483	P	0.9
4	☐	1250.000	1258.423	684685.32	5.7962	P	4.4
5	☐	2500.000	2628.376	1389048.47	12.1054	A	0.4
6	☐	5000.000	4983.144	2722165.31	22.9501	A	2.1
7	☐	10000.000	9974.793	5418231.31	45.9387	A	2.4
8	☐			3781.65	0.0307	P	1.3

$$y = 0.0046 * x + 6.9336E-004$$

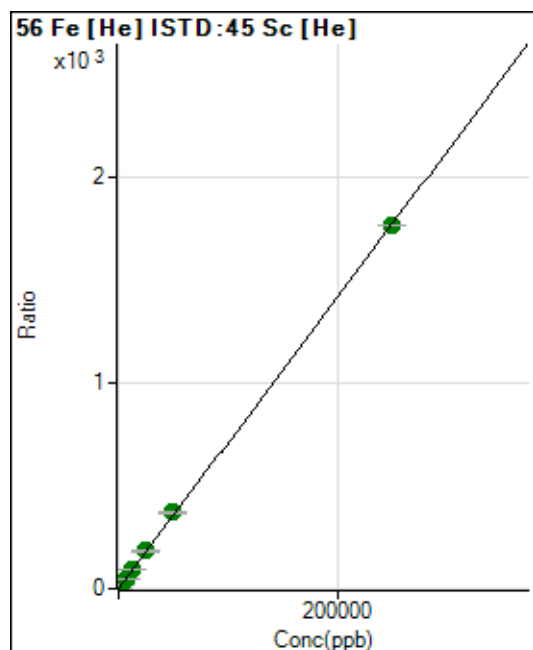
$$R = 0.9999$$

$$DL = 0.0348$$

$$BEC = 0.1506$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	2611.40	0.0236	P	8.3
2	☐	50.000	50.957	43417.99	0.3843	P	2.5
3	☐	2500.000	2689.326	2192085.90	19.0576	A	2.2
4	☐	6250.000	6546.791	5476496.07	46.3593	A	4.4
5	☐	12500.000	13769.916	11185620.16	97.4818	A	0.4
6	☐	25000.000	25776.950	21639978.03	182.4630	A	2.6
7	☐	50000.000	52425.472	43769447.27	371.0711	A	1.4
8	☐	250000.00	249364.40	217071686.3	1,764.929	A	0.1

$$y = 0.0071 * x + 0.0236$$

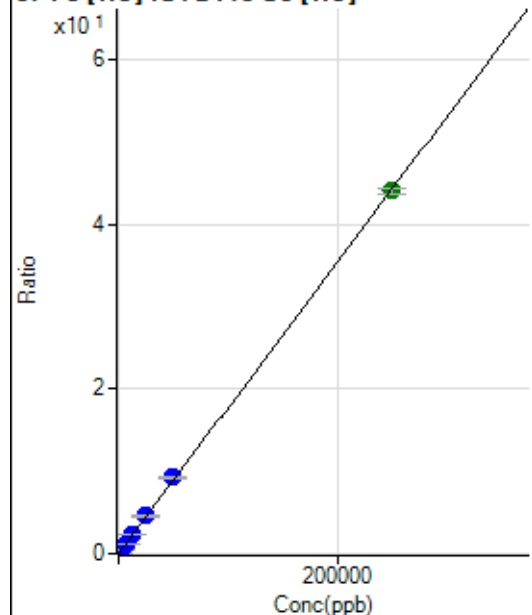
$$R = 0.9999$$

$$DL = 0.8309$$

$$BEC = 3.338$$

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	150.00	0.0014	P	17.6
2	☐	50.000	50.015	1150.07	0.0102	P	10.1
3	☐	2500.000	2683.479	54632.28	0.4750	P	2.1
4	☐	6250.000	6491.580	135500.69	1.1471	P	4.4
5	☐	12500.000	13608.716	275767.40	2.4032	P	0.3
6	☐	25000.000	25862.533	541537.14	4.5660	P	2.6
7	☐	50000.000	52393.869	1090844.35	9.2487	P	2.1
8	☐	250000.00	249371.66	5413281.25	44.0145	A	1.8

$$y = 1.7650\text{E-}004 * x + 0.0014$$

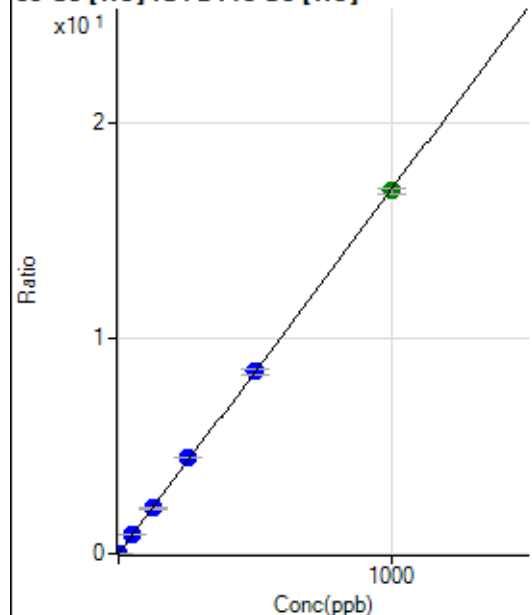
R = 0.9999

DL = 4.059

BEC = 7.696

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	48.89	0.0004	P	24.8
2	☐	1.000	0.986	1932.38	0.0171	P	4.0
3	☐	50.000	51.288	99681.30	0.8666	P	0.8
4	☐	125.000	124.929	249343.43	2.1102	P	3.2
5	☐	250.000	263.057	509786.63	4.4428	P	0.8
6	☐	500.000	500.996	1003369.56	8.4610	P	3.1
7	☐	1000.000	996.182	1984334.17	16.8235	A	1.9
8	☐			3349.32	0.0272	P	1.9

$$y = 0.0169 * x + 4.4312\text{E-}004$$

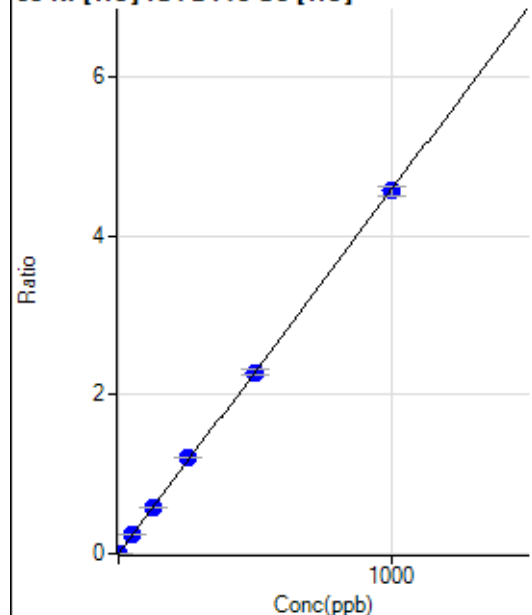
R = 0.9999

DL = 0.01956

BEC = 0.02624

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	97.78	0.0009	P	15.3
2	☐	1.000	0.930	581.13	0.0051	P	5.3
3	☐	50.000	51.622	27321.85	0.2375	P	0.8
4	☐	125.000	126.923	68852.32	0.5827	P	3.1
5	☐	250.000	264.437	139193.25	1.2130	P	0.4
6	☐	500.000	498.635	271171.91	2.2866	P	2.9
7	☐	1000.000	996.752	538983.71	4.5699	P	2.4
8	☐			1900.15	0.0155	P	2.1

$$y = 0.0046 * x + 8.8398E-004$$

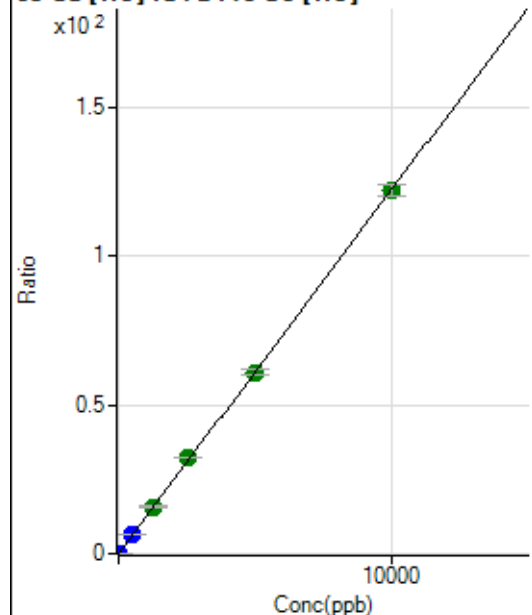
$$R = 0.9999$$

$$DL = 0.0887$$

$$BEC = 0.1928$$

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	554.46	0.0050	P	12.7
2	☐	2.000	2.052	3399.34	0.0301	P	4.2
3	☐	500.000	519.438	730429.10	6.3500	P	0.7
4	☐	1250.000	1276.978	1843367.44	15.6034	A	3.9
5	☐	2500.000	2654.479	3721283.10	32.4297	A	0.3
6	☐	5000.000	4975.678	7207886.14	60.7833	A	3.3
7	☐	10000.000	9969.197	14362672.43	121.7796	A	3.1
8	☐			3009.24	0.0245	P	2.6

$$y = 0.0122 * x + 0.0050$$

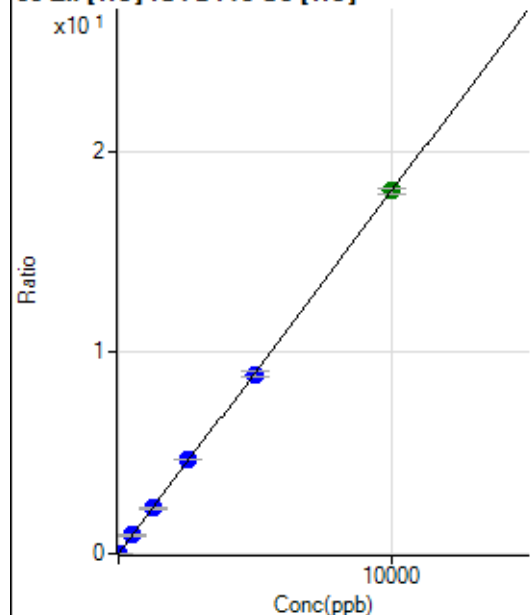
$$R = 0.9999$$

$$DL = 0.1568$$

$$BEC = 0.4111$$

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	141.64	0.0013	P	3.2
2	☐	2.000	1.932	537.94	0.0048	P	5.5
3	☐	500.000	504.933	104716.83	0.9104	P	1.0
4	☐	1250.000	1252.828	266628.09	2.2569	P	4.0
5	☐	2500.000	2606.412	538603.57	4.6939	P	0.6
6	☐	5000.000	4937.059	1054164.88	8.8900	P	3.4
7	☐	10000.000	10004.267	2124703.56	18.0131	A	1.7
8	☐			6819.31	0.0554	P	1.4

$$y = 0.0018 * x + 0.0013$$

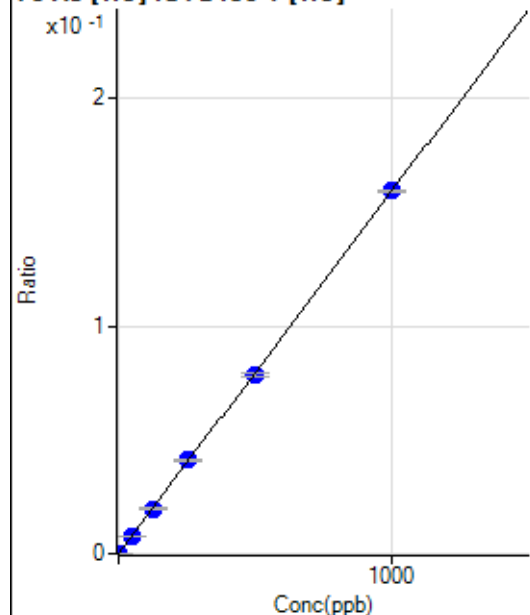
$$R = 0.9999$$

$$DL = 0.06781$$

$$BEC = 0.7119$$

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	10.00	0.0000	P	36.2
2	☐	1.000	0.973	167.35	0.0002	P	2.2
3	☐	50.000	49.685	8274.27	0.0079	P	0.9
4	☐	125.000	122.824	21176.27	0.0196	P	3.1
5	☐	250.000	258.276	42953.18	0.0411	P	1.0
6	☐	500.000	493.586	84784.02	0.0786	P	2.5
7	☐	1000.000	1001.426	170487.75	0.1594	P	0.4
8	☐			54.34	0.0000	P	17.5

$$y = 1.5914E-004 * x + 1.0072E-005$$

$$R = 0.9999$$

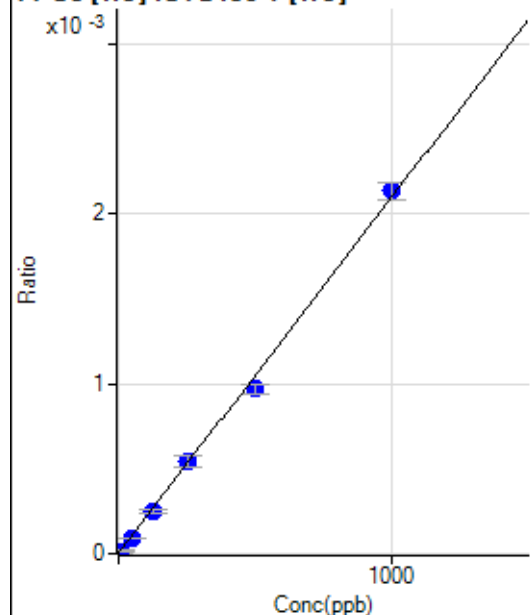
$$DL = 0.06864$$

$$BEC = 0.06329$$

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	3.33	0.0000	P	173.2
2	☐	5.000	5.749	15.55	0.0000	P	45.9
3	☐	50.000	43.124	97.78	0.0001	P	1.6
4	☐	125.000	117.089	268.89	0.0002	P	5.3
5	☐	250.000	258.972	570.02	0.0005	P	12.2
6	☐	500.000	461.182	1045.60	0.0010	P	5.5
7	☐	1000.000	1018.495	2282.43	0.0021	P	4.6
8	☐			0.00	0.0000	P	

$$y = 2.0918\text{E-}006 * x + 3.3468\text{E-}006$$

$$R = 0.9988$$

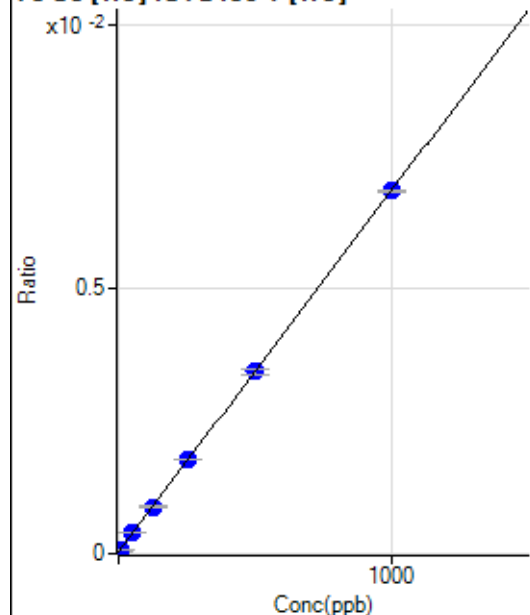
$$DL = 8.314$$

$$BEC = 1.6$$

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	39.33	0.0000	P	13.7
2	☐	5.000	6.002	81.68	0.0001	P	9.5
3	☐	50.000	53.831	425.05	0.0004	P	2.7
4	☐	125.000	124.578	962.46	0.0009	P	6.9
5	☐	250.000	257.063	1872.98	0.0018	P	0.3
6	☐	500.000	497.896	3707.20	0.0034	P	2.4
7	☐	1000.000	999.143	7330.98	0.0069	P	0.4
8	☐			56.67	0.0001	P	17.0

$$y = 6.8195\text{E-}006 * x + 3.9598\text{E-}005$$

$$R = 1.0000$$

$$DL = 2.389$$

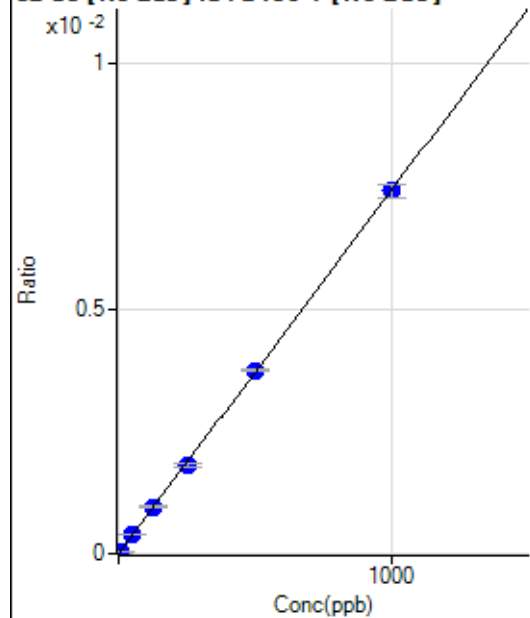
$$BEC = 5.807$$

Weight: <None>

Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			2239.16		P	4.9
2	☐			2312.59		P	8.1
3	☐			2062.28		P	0.5
4	☐			2072.29		P	9.8
5	☐			2182.44		P	7.3
6	☐			2269.20		P	8.2
7	☐			2189.10		P	9.4
8	☐			2459.42		P	1.6

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	-9.88	0.0000	P	-1217.
2	☐	5.000	4.562	254.29	0.0000	P	9.2
3	☐	50.000	51.815	3012.92	0.0004	P	1.9
4	☐	125.000	129.221	7673.30	0.0010	P	1.8
5	☐	250.000	244.763	15129.59	0.0018	P	3.8
6	☐	500.000	504.936	30006.54	0.0037	P	1.4
7	☐	1000.000	998.225	60540.92	0.0074	P	3.6
8	☐			37.48	0.0000	P	209.5

$$y = 7.4187E-006 * x - 1.1431E-006$$

$$R = 1.0000$$

$$DL = 5.629$$

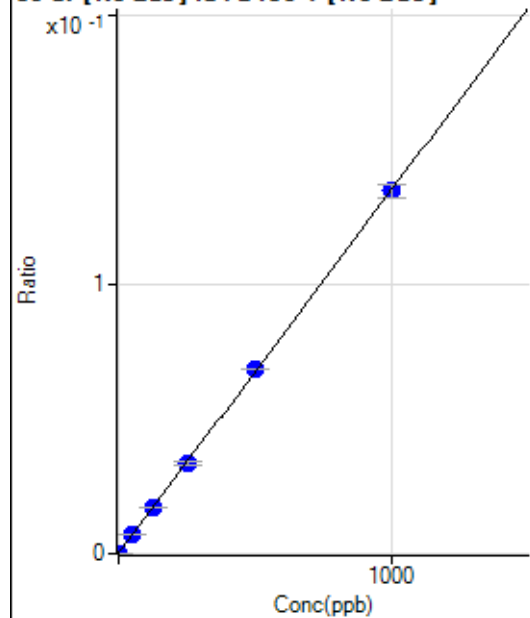
$$BEC = -0.1541$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			622.24		P	10.1
2	☐			636.69		P	6.0
3	☐			556.68		P	3.2
4	☐			545.57		P	2.8
5	☐			591.13		P	6.7
6	☐			583.35		P	17.7
7	☐			585.57		P	9.2
8	☐			563.35		P	9.5

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	925.06	0.0001	P	4.4
2	☐	1.000	0.886	1864.06	0.0002	P	12.3
3	☐	50.000	50.716	54702.00	0.0070	P	0.4
4	☐	125.000	125.834	136918.44	0.0171	P	1.8
5	☐	250.000	246.295	277888.17	0.0333	P	3.4
6	☐	500.000	506.980	548727.83	0.0685	P	1.0
7	☐	1000.000	997.296	1100262.52	0.1346	P	4.1
8	☐			6829.64	0.0008	P	2.5

$$y = 1.3482E-004 * x + 1.2036E-004$$

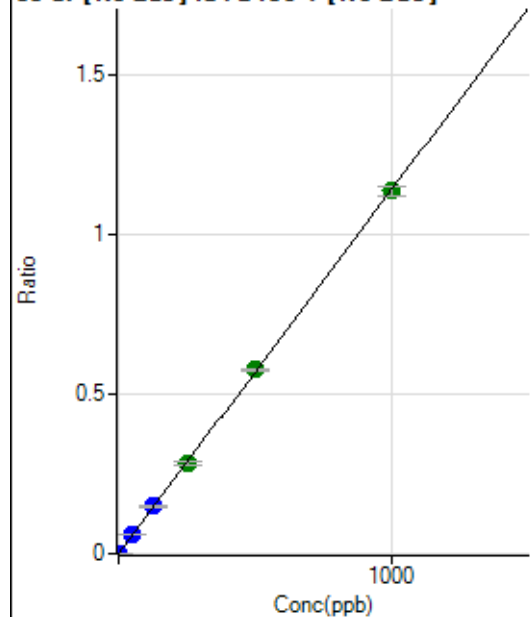
$$R = 1.0000$$

$$DL = 0.1171$$

$$BEC = 0.8927$$

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	63.89	0.0000	P	43.0
2	☐	1.000	0.927	8274.90	0.0011	P	1.3
3	☐	50.000	51.916	464727.66	0.0591	P	0.1
4	☐	125.000	130.315	1188975.35	0.1484	P	1.6
5	☐	250.000	247.780	2352011.51	0.2821	A	3.7
6	☐	500.000	505.017	4606568.07	0.5749	A	1.9
7	☐	1000.000	997.287	9284777.81	1.1354	A	2.6
8	☐			51548.59	0.0063	P	1.6

$$y = 0.0011 * x + 8.3508E-006$$

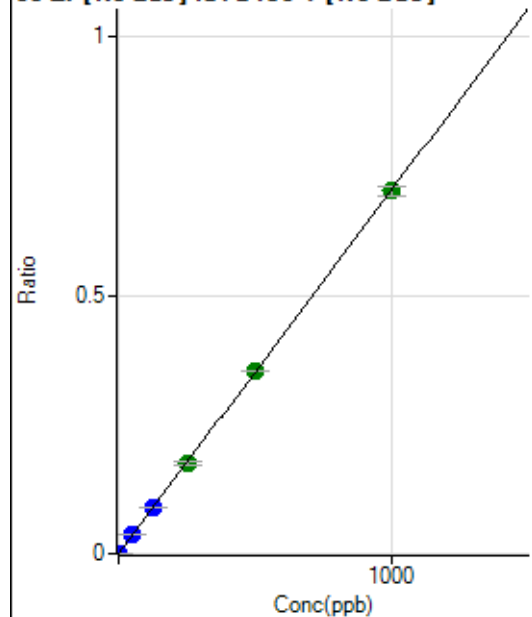
$$R = 1.0000$$

$$DL = 0.009457$$

$$BEC = 0.007335$$

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	322.24	0.0000	P	31.6
2	☐	1.000	0.962	5592.95	0.0007	P	4.4
3	☐	50.000	51.445	285065.25	0.0363	P	0.7
4	☐	125.000	127.914	721942.93	0.0901	P	2.1
5	☐	250.000	248.748	1460281.22	0.1752	A	4.1
6	☐	500.000	503.712	2842331.64	0.3547	A	0.4
7	☐	1000.000	998.020	5746030.25	0.7026	A	2.6
8	☐			1544.57	0.0002	P	11.3

$$y = 7.0399E-004 * x + 4.1940E-005$$

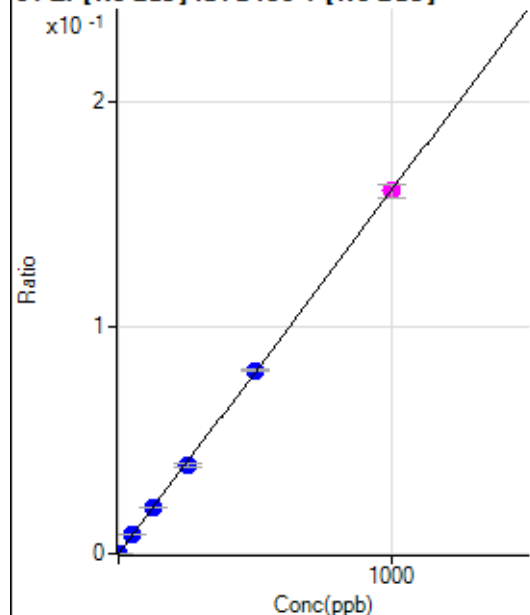
$$R = 1.0000$$

$$DL = 0.05639$$

$$BEC = 0.05957$$

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	50.00	0.0000	P	44.1
2	☐	1.000	0.985	1280.65	0.0002	P	7.0
3	☐	50.000	50.718	64106.41	0.0082	P	1.6
4	☐	125.000	125.679	161838.10	0.0202	P	1.9
5	☐	250.000	245.719	329129.21	0.0395	P	4.1
6	☐	500.000	503.825	648648.02	0.0809	P	0.7
7	☐	1000.000	999.037	1312256.55	0.1605	M	3.4
8	☐			397.24	0.0000	P	18.3

$$y = 1.6064\text{E-}004 * x + 6.5009\text{E-}006$$

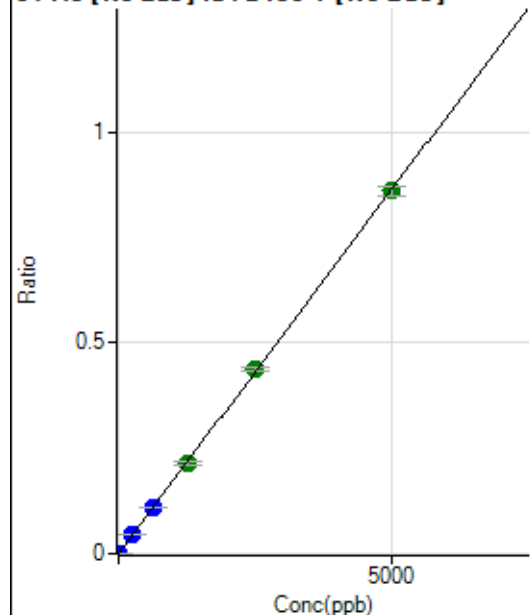
$$R = 1.0000$$

$$DL = 0.0536$$

$$BEC = 0.04047$$

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	119.45	0.0000	P	23.6
2	☐	5.000	4.627	6337.73	0.0008	P	4.7
3	☐	250.000	258.586	351355.13	0.0447	P	0.6
4	☐	625.000	640.719	887302.68	0.1107	P	0.9
5	☐	1250.000	1230.916	1773183.39	0.2127	A	4.0
6	☐	2500.000	2533.963	3507985.23	0.4378	A	1.6
7	☐	5000.000	4985.395	7043888.53	0.8614	A	2.7
8	☐			1664.04	0.0002	P	6.6

$$y = 1.7277\text{E-}004 * x + 1.5571\text{E-}005$$

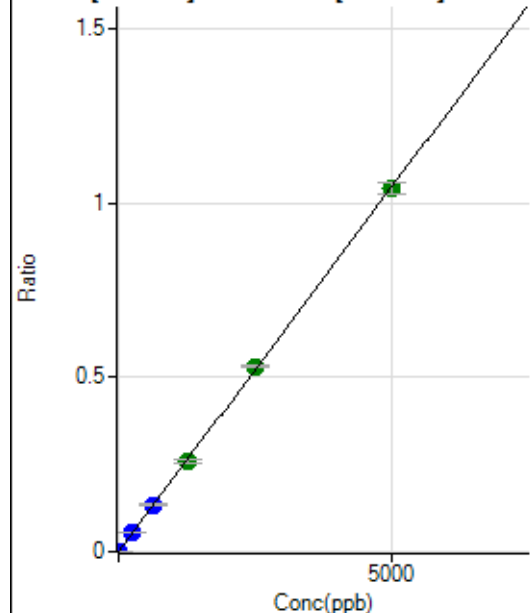
$$R = 1.0000$$

$$DL = 0.06387$$

$$BEC = 0.09013$$

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	69.44	0.0000	P	15.3
2	☐	5.000	4.732	7769.04	0.0010	P	0.6
3	☐	250.000	257.236	423207.11	0.0538	P	0.6
4	☐	625.000	642.373	1077206.29	0.1344	P	1.3
5	☐	1250.000	1247.626	2176563.85	0.2611	A	3.7
6	☐	2500.000	2539.253	4257890.33	0.5313	A	0.6
7	☐	5000.000	4978.434	8517606.36	1.0417	A	3.2
8	☐			1844.62	0.0002	P	4.5

$$y = 2.0923\text{E-}004 * x + 9.0500\text{E-}006$$

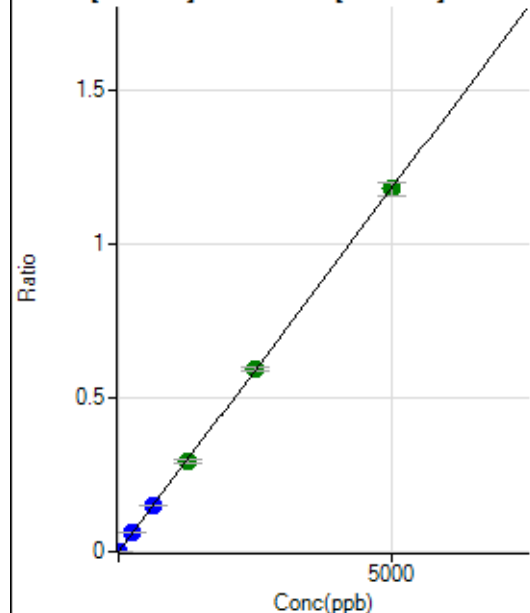
$$R = 0.9999$$

$$DL = 0.01981$$

$$BEC = 0.04325$$

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	113.89	0.0000	P	19.6
2	☐	5.000	4.651	8655.72	0.0011	P	5.3
3	☐	250.000	252.771	469527.97	0.0597	P	0.5
4	☐	625.000	630.400	1193365.72	0.1489	P	2.2
5	☐	1250.000	1244.908	2452217.35	0.2941	A	3.2
6	☐	2500.000	2514.569	4758921.20	0.5940	A	2.0
7	☐	5000.000	4993.175	9643163.41	1.1795	A	3.9
8	☐			2394.71	0.0003	P	3.7

$$y = 2.3621\text{E-}004 * x + 1.4846\text{E-}005$$

$$R = 1.0000$$

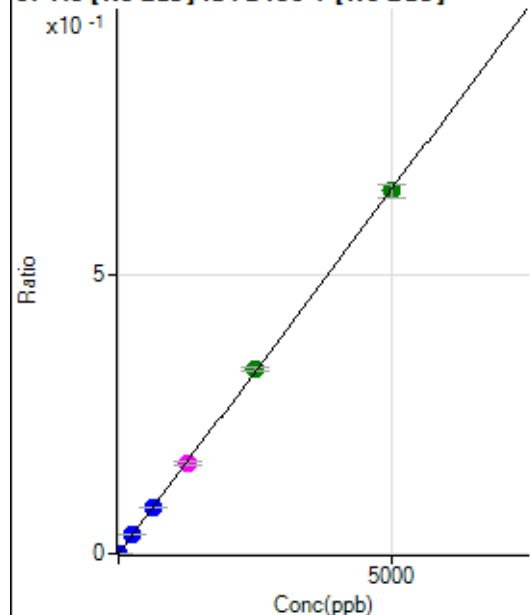
$$DL = 0.03697$$

$$BEC = 0.06285$$

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	36.11	0.0000	P	33.6
2	☐	5.000	4.757	4867.68	0.0006	P	4.0
3	☐	250.000	256.836	263785.49	0.0336	P	0.4
4	☐	625.000	634.672	664384.03	0.0829	P	1.9
5	☐	1250.000	1238.919	1349701.66	0.1618	M	2.5
6	☐	2500.000	2539.027	2657101.95	0.3317	A	2.3
7	☐	5000.000	4981.706	5320732.45	0.6507	A	3.4
8	☐			1061.18	0.0001	P	16.7

$$y = 1.3062\text{E-}004 * x + 4.6822\text{E-}006$$

$$R = 1.0000$$

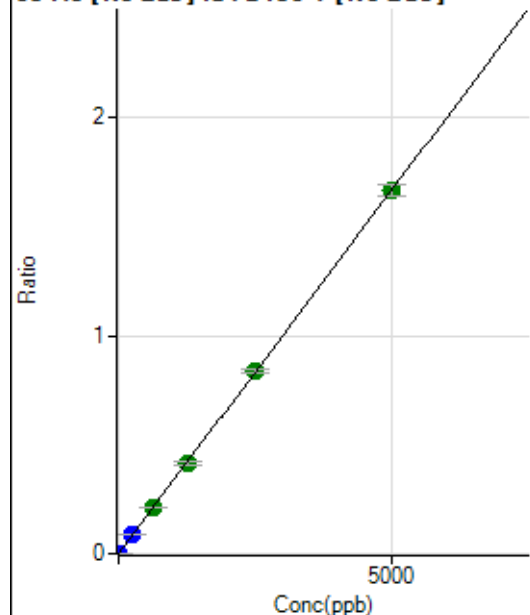
$$DL = 0.03615$$

$$BEC = 0.03584$$

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	52.78	0.0000	P	22.6
2	☐	5.000	4.616	11999.93	0.0015	P	5.4
3	☐	250.000	259.561	679405.56	0.0864	P	1.3
4	☐	625.000	632.558	1687819.89	0.2106	A	1.1
5	☐	1250.000	1248.062	3464686.45	0.4155	A	3.8
6	☐	2500.000	2510.091	6695993.73	0.8357	A	1.6
7	☐	5000.000	4994.016	13595017.32	1.6627	A	3.3
8	☐			2805.92	0.0003	P	7.1

$$y = 3.3293\text{E-}004 * x + 6.8531\text{E-}006$$

$$R = 1.0000$$

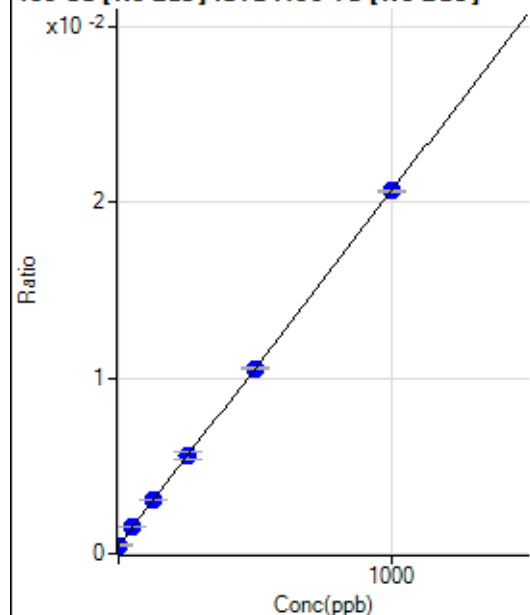
$$DL = 0.01395$$

$$BEC = 0.02058$$

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	1889.07	0.0005	P	8.6
2	☐	1.000	1.135	1983.53	0.0005	P	7.0
3	☐	50.000	52.447	6304.38	0.0015	P	1.8
4	☐	125.000	129.181	13037.01	0.0031	P	2.1
5	☐	250.000	253.588	24355.37	0.0056	P	6.1
6	☐	500.000	497.964	45375.25	0.0105	P	1.2
7	☐	1000.000	999.476	90004.42	0.0207	P	0.8
8	☐			2155.78	0.0005	P	11.5

$$y = 2.0222\text{E-}005 * x + 4.5960\text{E-}004$$

$$R = 1.0000$$

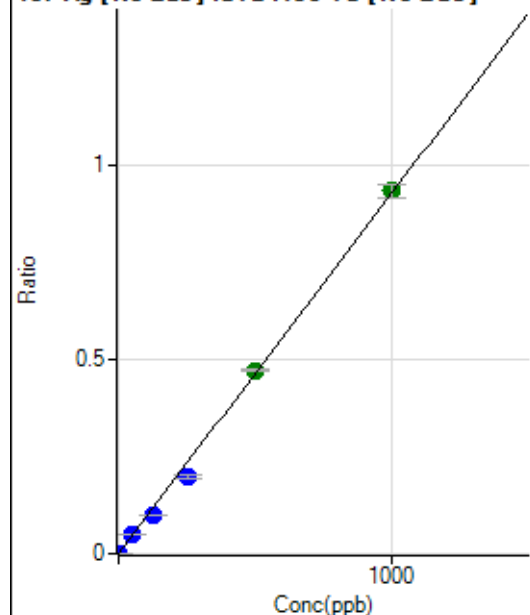
$$DL = 5.88$$

$$BEC = 22.73$$

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	86.12	0.0000	P	24.4
2	☐	1.000	0.932	3639.48	0.0009	P	5.2
3	☐	50.000	53.288	204908.30	0.0494	P	1.4
4	☐	125.000	105.509	415089.95	0.0978	P	1.8
5	☐	250.000	211.947	856396.32	0.1965	P	5.2
6	☐	500.000	509.110	2033867.86	0.4719	A	1.2
7	☐	1000.000	1007.230	4063972.36	0.9335	A	3.4
8	☐			1911.30	0.0004	P	3.7

$$y = 9.2682\text{E-}004 * x + 2.0928\text{E-}005$$

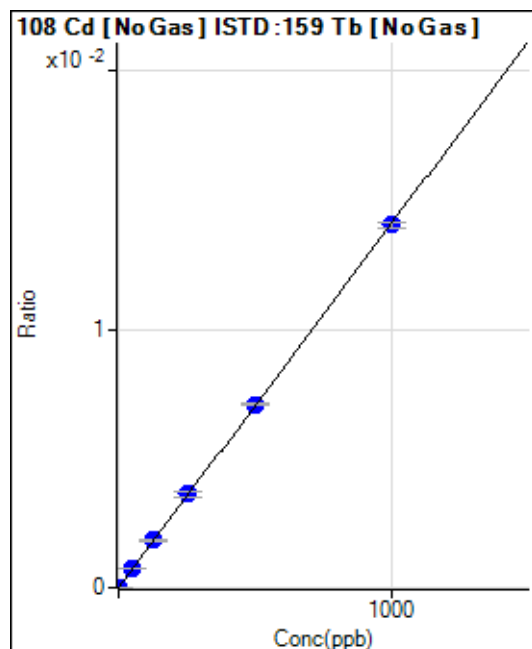
$$R = 0.9990$$

$$DL = 0.01652$$

$$BEC = 0.02258$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	9.72	0.0000	P	109.0
2	☐	1.000	1.027	69.44	0.0000	P	19.2
3	☐	50.000	51.645	3029.54	0.0007	P	4.8
4	☐	125.000	130.218	7802.30	0.0018	P	1.7
5	☐	250.000	256.196	15746.56	0.0036	P	7.1
6	☐	500.000	502.859	30571.44	0.0071	P	1.3
7	☐	1000.000	996.287	61168.03	0.0140	P	1.9
8	☐			41.67	0.0000	P	63.9

$$y = 1.4100\text{E-}005 * x + 2.3730\text{E-}006$$

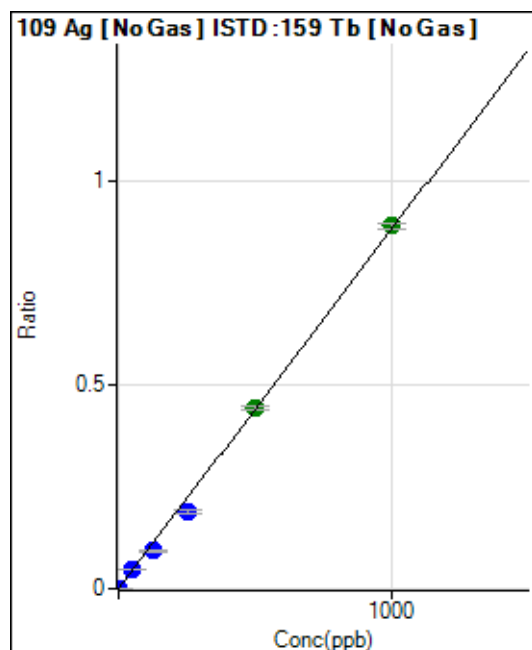
$$R = 1.0000$$

$$DL = 0.5504$$

$$BEC = 0.1683$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	25.00	0.0000	P	34.2
2	☐	1.000	1.011	3678.37	0.0009	P	7.7
3	☐	50.000	53.389	194800.22	0.0470	P	1.5
4	☐	125.000	104.634	390678.35	0.0920	P	0.9
5	☐	250.000	212.223	813857.19	0.1867	P	5.1
6	☐	500.000	503.841	1909974.72	0.4432	A	1.3
7	☐	1000.000	1009.900	3867579.04	0.8884	A	1.9
8	☐			1664.04	0.0004	P	9.0

$$y = 8.7965\text{E-}004 * x + 6.0934\text{E-}006$$

$$R = 0.9990$$

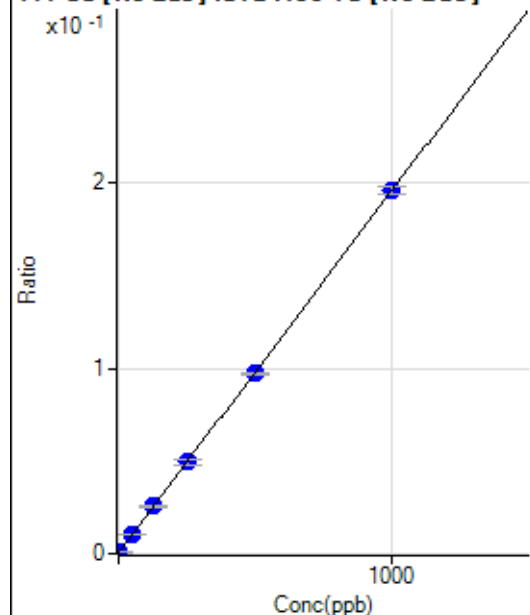
$$DL = 0.007102$$

$$BEC = 0.006927$$

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	1322.49	0.0003	P	8.7
2	☐	1.000	1.120	2221.84	0.0005	P	2.7
3	☐	50.000	52.059	43517.83	0.0105	P	1.5
4	☐	125.000	128.777	108165.61	0.0255	P	1.4
5	☐	250.000	251.878	215914.83	0.0495	P	5.4
6	☐	500.000	496.775	419681.72	0.0974	P	1.3
7	☐	1000.000	1000.568	852497.62	0.1958	P	2.0
8	☐			1807.67	0.0004	P	10.0

$$y = 1.9538\text{E-}004 * x + 3.2176\text{E-}004$$

$$R = 1.0000$$

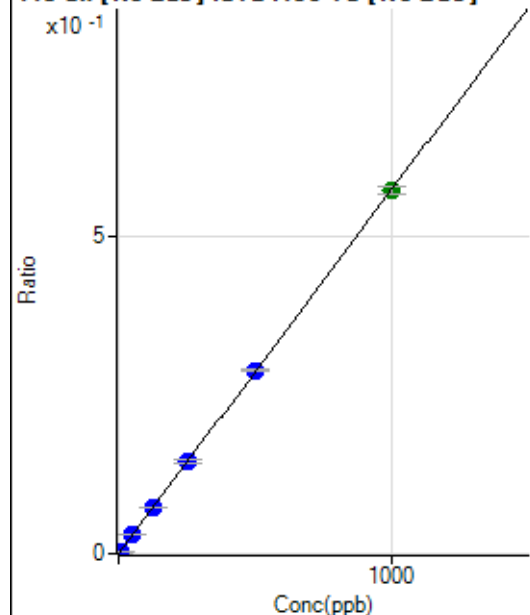
$$DL = 0.4318$$

$$BEC = 1.647$$

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	258.34	0.0001	P	20.6
2	☐	5.000	4.716	11385.57	0.0028	P	1.8
3	☐	50.000	51.987	124024.94	0.0299	P	0.8
4	☐	125.000	126.797	309177.09	0.0728	P	1.5
5	☐	250.000	253.171	633791.85	0.1454	P	5.4
6	☐	500.000	503.405	1245779.24	0.2890	P	0.6
7	☐	1000.000	997.182	2492350.93	0.5725	A	2.1
8	☐			697.26	0.0002	P	12.9

$$y = 5.7404\text{E-}004 * x + 6.2661\text{E-}005$$

$$R = 1.0000$$

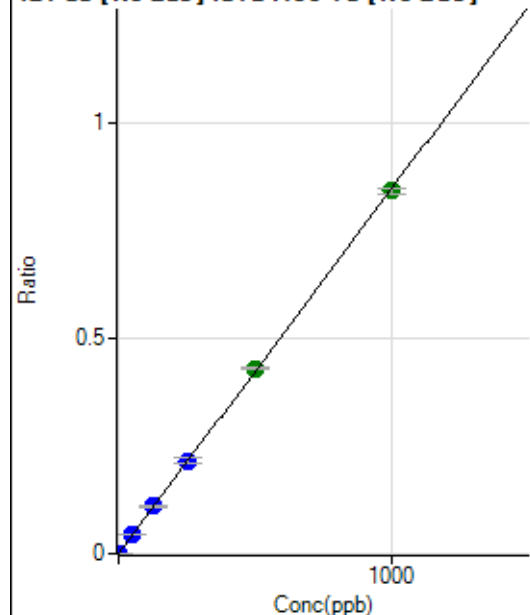
$$DL = 0.06757$$

$$BEC = 0.1092$$

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	33.33	0.0000	P	24.9
2	☐	2.000	1.847	6457.28	0.0016	P	5.7
3	☐	50.000	51.899	182287.79	0.0440	P	1.0
4	☐	125.000	129.464	465294.40	0.1096	P	1.4
5	☐	250.000	253.869	936984.70	0.2150	P	5.6
6	☐	500.000	507.499	1852009.07	0.4297	A	0.8
7	☐	1000.000	994.631	3666735.46	0.8422	A	1.9
8	☐			1964.08	0.0005	P	12.2

$$y = 8.4677\text{E-}004 * x + 8.0983\text{E-}006$$

$$R = 0.9999$$

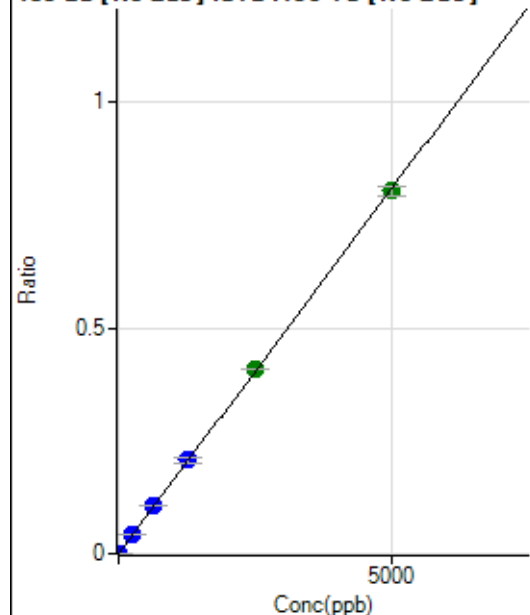
$$DL = 0.00714$$

$$BEC = 0.009564$$

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	16.67	0.0000	P	131.6
2	☐	10.000	9.665	6443.36	0.0016	P	1.2
3	☐	250.000	262.309	175981.24	0.0424	P	0.3
4	☐	625.000	649.529	445919.87	0.1051	P	1.1
5	☐	1250.000	1284.679	905787.15	0.2078	P	5.4
6	☐	2500.000	2528.852	1763002.91	0.4090	A	0.3
7	☐	5000.000	4973.223	3501858.89	0.8044	A	2.9
8	☐			6198.79	0.0014	P	3.0

$$y = 1.6175\text{E-}004 * x + 3.9943\text{E-}006$$

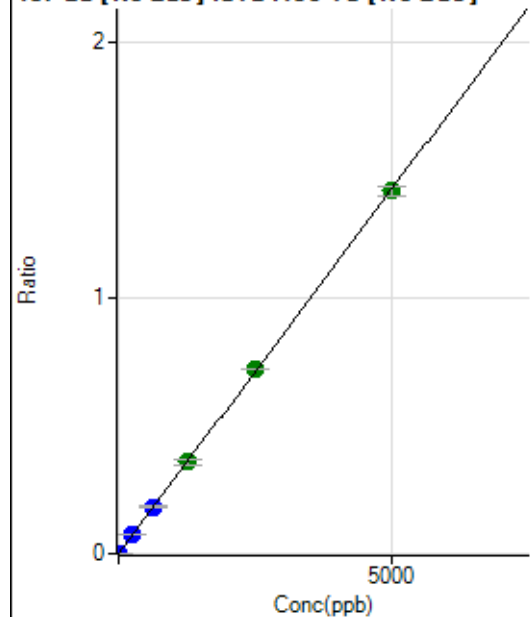
$$R = 0.9999$$

$$DL = 0.09747$$

$$BEC = 0.02469$$

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	100.8
2	☐	10.000	9.460	11077.08	0.0027	P	1.5
3	☐	250.000	257.866	304343.57	0.0734	P	0.8
4	☐	625.000	643.169	776831.61	0.1830	P	1.2
5	☐	1250.000	1257.322	1559290.67	0.3578	A	6.1
6	☐	2500.000	2530.764	3103992.17	0.7202	A	0.3
7	☐	5000.000	4980.124	6169687.42	1.4172	A	2.6
8	☐			10893.58	0.0025	P	4.8

$$y = 2.8458E-004 * x + 2.0204E-006$$

$$R = 1.0000$$

$$DL = 0.02147$$

$$BEC = 0.0071$$

Weight: <None>

Min Conc: 0

150 Nd [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			2.22		P	173.2
2	☐			4.44		P	173.2
3	☐			8.89		P	43.3
4	☐			33.33		P	34.6
5	☐			24.45		P	15.8
6	☐			55.56		P	18.3
7	☐			140.01		P	33.0
8	☐			28.89		P	26.6

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	☐			1.11		P	173.2
4	☐			4.44		P	114.6
5	☐			6.67		P	50.0
6	☐			2.22		P	173.2
7	☐			10.00		P	33.3
8	☐			14.45		P	93.2

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	☐			11.11		P	43.3
3	☐			19.45		P	24.7
4	☐			38.89		P	44.6
5	☐			16.67		P	86.6
6	☐			50.00		P	44.1
7	☐			100.00		P	16.7
8	☐			183.34		P	13.6

156 Dy [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			1.11		P	173.2
2	☐			5.56		P	91.6
3	☐			3.33		P	100.1
4	☐			8.89		P	57.3
5	☐			6.67		P	50.0
6	☐			30.00		P	40.1
7	☐			45.56		P	22.4
8	☐			113.33		P	10.6

160 Gd [No Gas] Noavailable calibration poin_

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			41.67		P	60.0
2	☐			30.56		P	110.2
3	☐			63.89		P	7.5
4	☐			44.45		P	57.3
5	☐			86.11		P	34.0
6	☐			75.00		P	19.3
7	☐			105.56		P	51.4
8	☐			191.67		P	24.2

160 Gd [He] No available calibration points

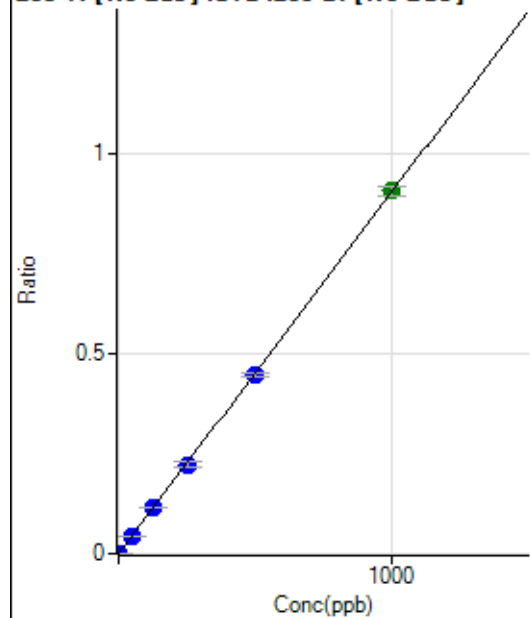
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			14.44		P	35.3
2	☐			14.44		P	66.6
3	☐			27.78		P	18.3
4	☐			24.44		P	20.8
5	☐			33.33		P	55.7
6	☐			37.78		P	31.0
7	☐			38.89		P	4.9
8	☐			155.56		P	18.2

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	☐			27.78		P	45.8
3	☐			36.11		P	74.2
4	☐			38.89		P	12.4
5	☐			25.00		P	33.3
6	☐			27.78		P	34.6
7	☐			50.00		P	33.3
8	☐			47.22		P	73.5

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			13.33		P	25.0
2	☐			16.67		P	80.0
3	☐			10.00		P	33.3
4	☐			4.44		P	43.4
5	☐			12.22		P	41.7
6	☐			18.89		P	53.9
7	☐			20.00		P	16.7
8	☐			16.67		P	52.9

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	77.78	0.0000	P	53.2
2	☐	1.000	0.961	1955.77	0.0009	P	8.8
3	☐	50.000	49.663	98903.18	0.0449	P	2.1
4	☐	125.000	126.087	255850.92	0.1139	P	1.6
5	☐	250.000	246.719	512223.67	0.2229	P	5.4
6	☐	500.000	493.647	1011826.41	0.4460	P	1.8
7	☐	1000.000	1003.878	2049790.06	0.9070	A	2.6
8	☐			238.90	0.0001	P	18.8

$$y = 9.0343E-004 * x + 3.5817E-005$$

$$R = 1.0000$$

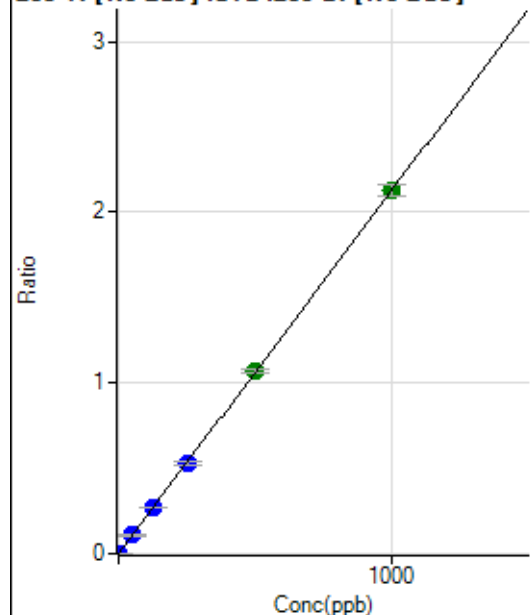
$$DL = 0.06332$$

$$BEC = 0.03965$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	175.01	0.0001	P	27.2
2	☐	1.000	0.909	4353.62	0.0020	P	2.8
3	☐	50.000	50.493	236533.22	0.1074	P	1.2
4	☐	125.000	125.484	599040.71	0.2668	P	0.3
5	☐	250.000	248.295	1212953.04	0.5278	P	4.6
6	☐	500.000	501.247	2416651.05	1.0654	A	2.2
7	☐	1000.000	999.718	4801512.04	2.1248	A	3.1
8	☐			469.47	0.0002	P	26.0

$$y = 0.0021 * x + 8.0234E-005$$

$$R = 1.0000$$

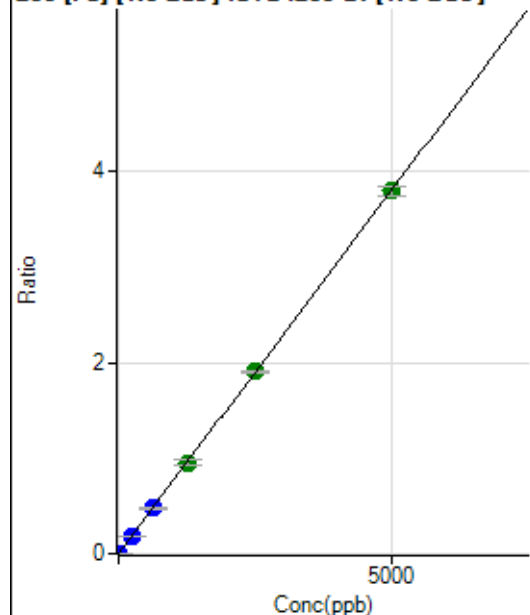
$$DL = 0.03076$$

$$BEC = 0.03775$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	407.42	0.0002	P	15.9
2	☐	1.000	0.870	1835.35	0.0008	P	4.6
3	☐	250.000	249.382	417982.94	0.1898	P	0.5
4	☐	625.000	622.953	1063797.64	0.4738	P	1.6
5	☐	1250.000	1253.872	2191058.66	0.9534	A	4.9
6	☐	2500.000	2512.199	4333677.30	1.9100	A	1.0
7	☐	5000.000	4993.220	8579073.98	3.7962	A	2.7
8	☐			2333.59	0.0011	P	6.7

$$y = 7.6023E-004 * x + 1.8747E-004$$

$$R = 1.0000$$

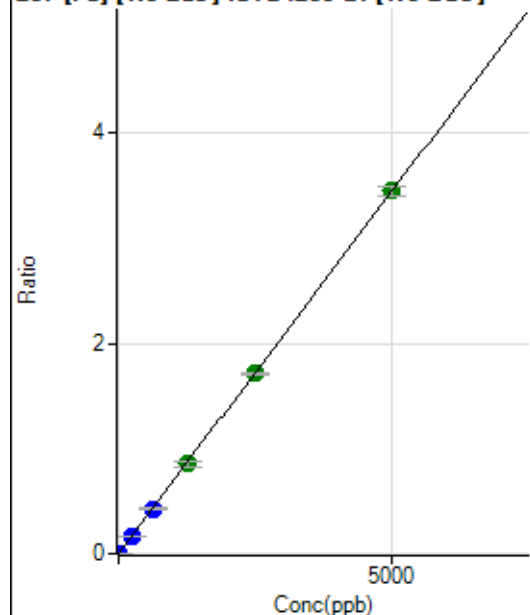
$$DL = 0.1177$$

$$BEC = 0.2466$$

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	316.68	0.0001	P	25.9
2	☐	1.000	0.888	1637.17	0.0008	P	2.1
3	☐	250.000	247.029	374904.36	0.1702	P	0.6
4	☐	625.000	619.450	957911.72	0.4266	P	1.5
5	☐	1250.000	1241.495	1964066.10	0.8549	A	5.6
6	☐	2500.000	2483.566	3879872.91	1.7100	A	0.8
7	☐	5000.000	5011.186	7797327.66	3.4502	A	2.5
8	☐			2027.98	0.0010	P	7.8

$$y = 6.8846E-004 * x + 1.4522E-004$$

$$R = 1.0000$$

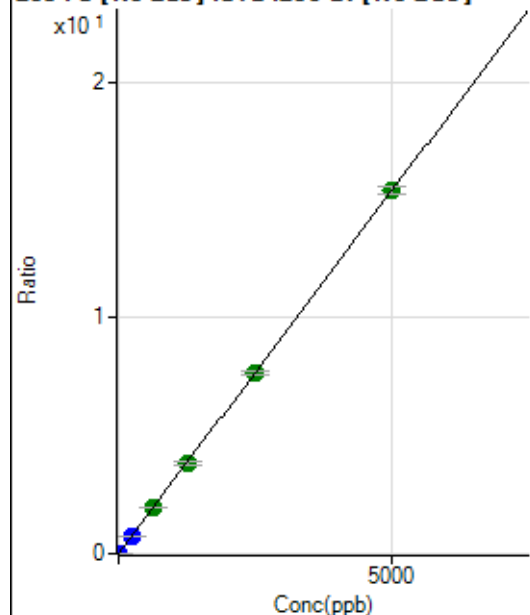
$$DL = 0.1637$$

$$BEC = 0.2109$$

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	1525.99	0.0007	P	3.6
2	☐	1.000	0.895	7467.66	0.0035	P	3.4
3	☐	250.000	248.669	1686072.96	0.7655	P	0.5
4	☐	625.000	628.572	4342459.90	1.9339	A	1.6
5	☐	1250.000	1245.865	8806452.06	3.8325	A	5.2
6	☐	2500.000	2493.269	17399962.80	7.6690	A	1.2
7	☐	5000.000	5004.019	34785574.97	15.3912	A	2.2
8	☐			9234.81	0.0043	P	3.6

$$y = 0.0031 * x + 7.0124E-004$$

$$R = 1.0000$$

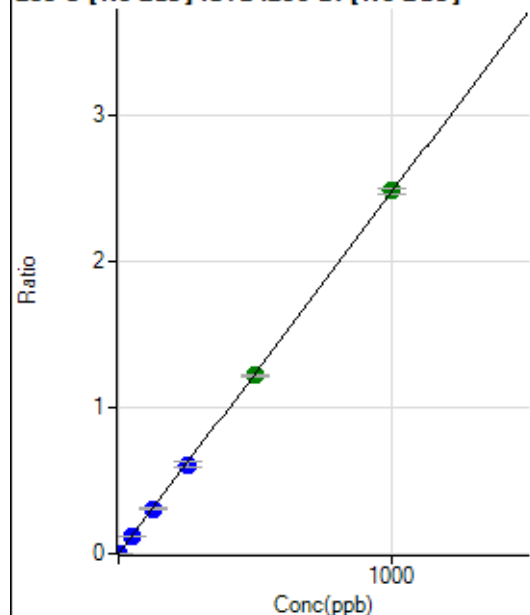
$$DL = 0.02446$$

$$BEC = 0.228$$

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	13.89	0.0000	P	67.8
2	☐	1.000	0.920	4937.19	0.0023	P	2.6
3	☐	50.000	50.035	272632.27	0.1238	P	1.2
4	☐	125.000	124.683	692572.20	0.3084	P	1.6
5	☐	250.000	246.852	1403166.46	0.6106	P	5.2
6	☐	500.000	493.316	2768492.77	1.2203	A	1.5
7	☐	1000.000	1004.167	5614325.91	2.4840	A	1.9
8	☐			469.47	0.0002	P	13.4

$$y = 0.0025 * x + 6.3426E-006$$

$$R = 1.0000$$

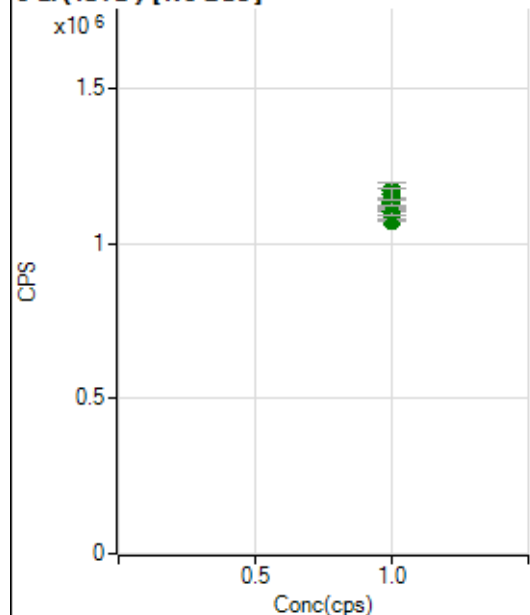
$$DL = 0.005213$$

$$BEC = 0.002564$$

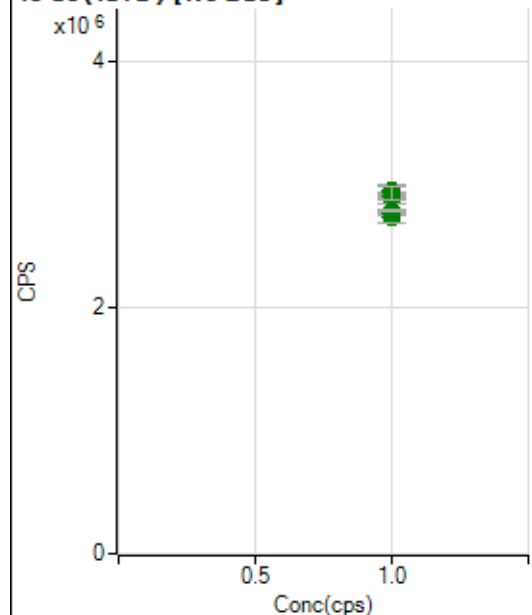
Weight: <None>

Min Conc: 0

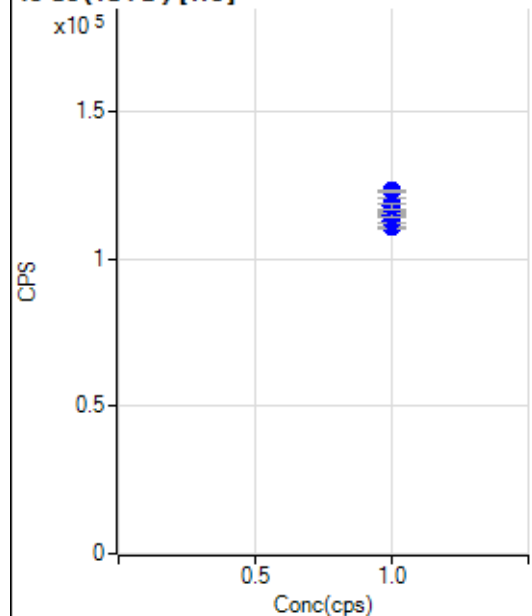
6 Li (ISTD) [No Gas]



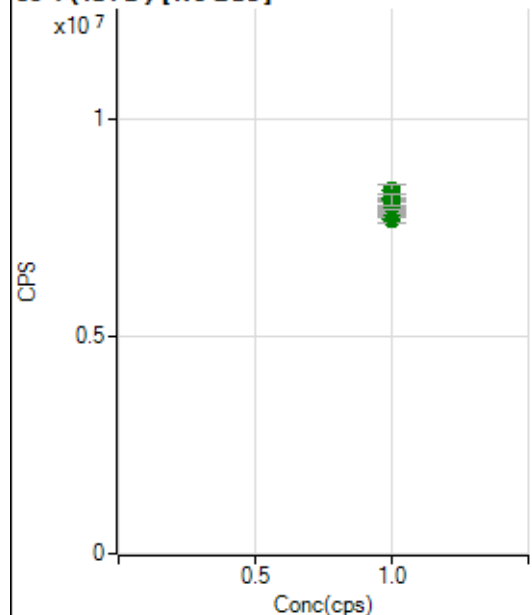
	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		1074995.49		A	0.7
2	☐	1.000		1089996.52		A	2.2
3	☐	1.000		1102030.52		A	1.9
4	☐	1.000		1128901.02		A	2.3
5	☐	1.000		1169886.19		A	4.9
6	☐	1.000		1128066.14		A	2.6
7	☐	1.000		1133951.57		A	2.4
8	☐	1.000		1160110.68		A	3.5

45 Sc (ISTD) [No Gas]

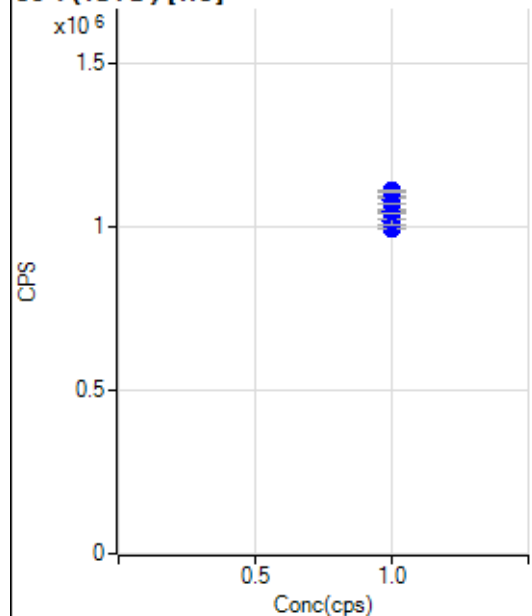
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		2727376.68		A	3.0
2	☐	1.000		2764765.48		A	1.4
3	☐	1.000		2785765.58		A	0.7
4	☐	1.000		2871993.74		A	1.9
5	☐	1.000		2946856.21		A	4.0
6	☐	1.000		2878694.09		A	2.4
7	☐	1.000		2907767.77		A	1.9
8	☐	1.000		2932042.07		A	3.9

45 Sc (ISTD) [He]

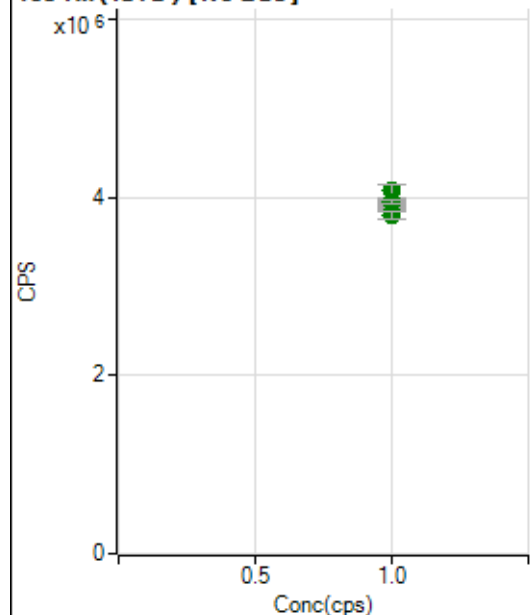
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		110517.75		P	1.0
2	☐	1.000		113015.49		P	1.6
3	☐	1.000		115032.91		P	0.8
4	☐	1.000		118258.57		P	3.9
5	☐	1.000		114747.68		P	0.7
6	☐	1.000		118665.27		P	3.2
7	☐	1.000		117972.60		P	1.6
8	☐	1.000		122991.29		P	0.6

89 Y (ISTD) [No Gas]

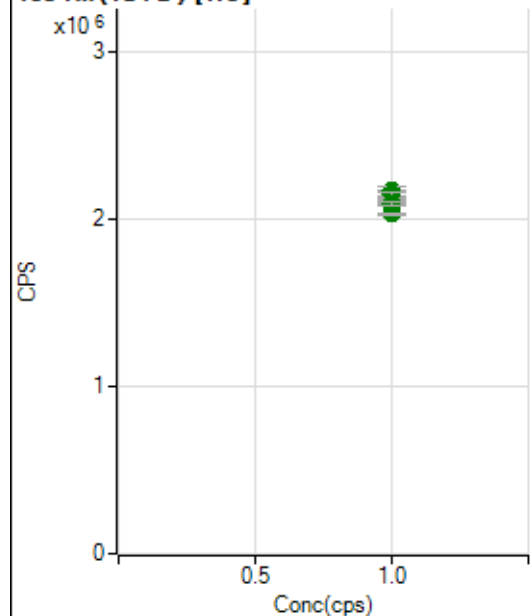
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		7685608.98		A	1.6
2	☐	1.000		7775186.07		A	0.6
3	☐	1.000		7861762.24		A	0.5
4	☐	1.000		8015017.73		A	1.5
5	☐	1.000		8344736.12		A	3.5
6	☐	1.000		8014661.06		A	2.6
7	☐	1.000		8181392.93		A	2.6
8	☐	1.000		8149147.17		A	3.0

89 Y (ISTD) [He]

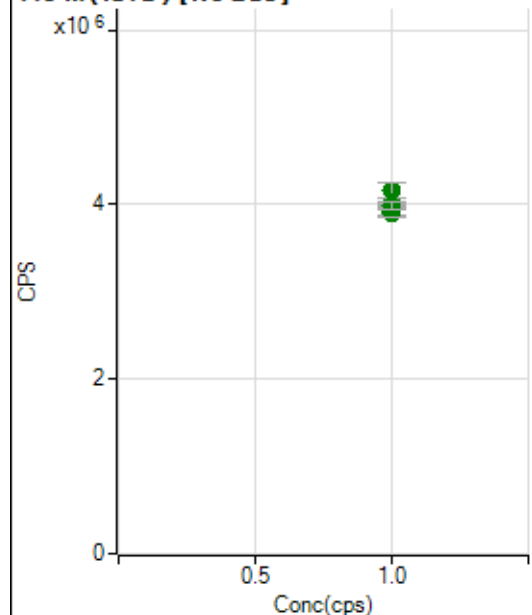
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		993050.05		P	0.3
2	☐	1.000		1015132.08		P	1.3
3	☐	1.000		1045124.25		P	0.6
4	☐	1.000		1083321.53		P	2.4
5	☐	1.000		1044835.50		P	1.1
6	☐	1.000		1079540.19		P	1.8
7	☐	1.000		1069704.73		P	0.3
8	☐	1.000		1109313.91		P	0.4

103 Rh (ISTD) [No Gas]

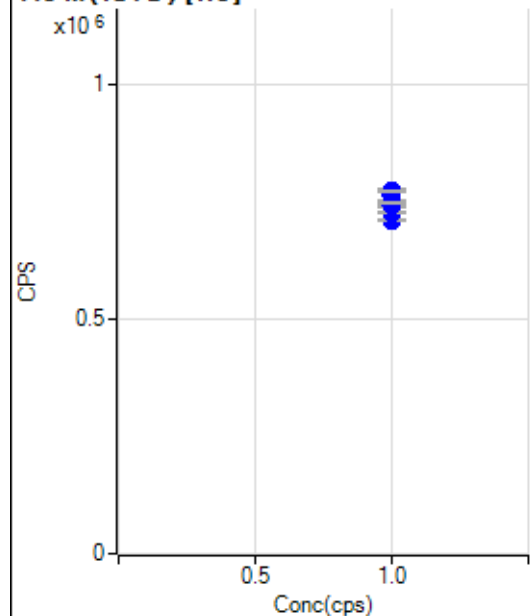
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		3877167.36		A	2.0
2	☐	1.000		3893057.29		A	1.4
3	☐	1.000		3905924.87		A	1.0
4	☐	1.000		3936738.46		A	1.2
5	☐	1.000		4072538.24		A	3.9
6	☐	1.000		3923623.83		A	2.2
7	☐	1.000		3957830.12		A	1.1
8	☐	1.000		3799639.54		A	2.6

103 Rh (ISTD) [He]

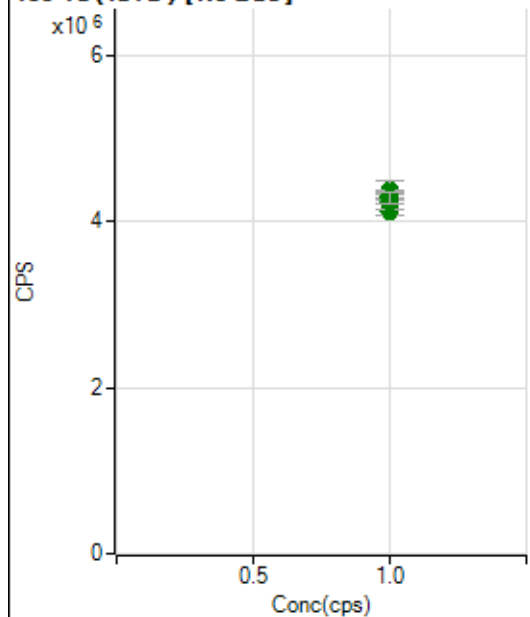
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		2028088.63		A	1.0
2	☐	1.000		2101445.72		A	1.4
3	☐	1.000		2123478.62		A	1.1
4	☐	1.000		2149068.98		A	2.4
5	☐	1.000		2121438.56		A	0.7
6	☐	1.000		2166441.10		A	2.8
7	☐	1.000		2142391.58		A	1.3
8	☐	1.000		2089592.66		A	1.1

115 In (ISTD) [No Gas]

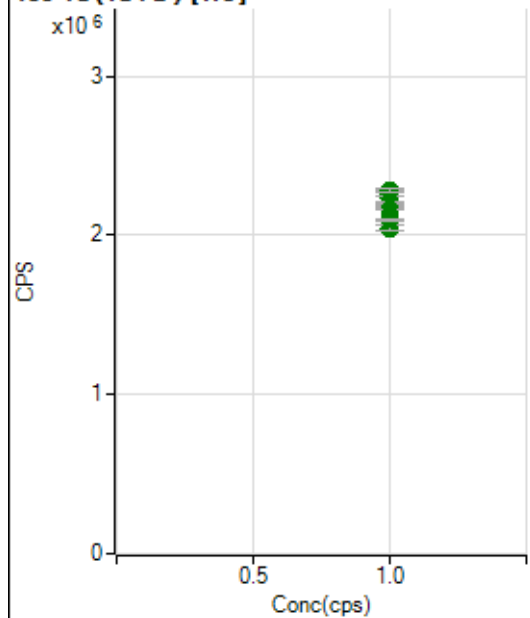
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		3915771.05		A	1.5
2	☐	1.000		3899937.52		A	2.1
3	☐	1.000		3953939.72		A	0.8
4	☐	1.000		3977912.87		A	1.8
5	☐	1.000		4155616.62		A	4.4
6	☐	1.000		4023383.99		A	2.8
7	☐	1.000		4032559.53		A	2.3
8	☐	1.000		3979804.21		A	2.3

115 In (ISTD) [He]

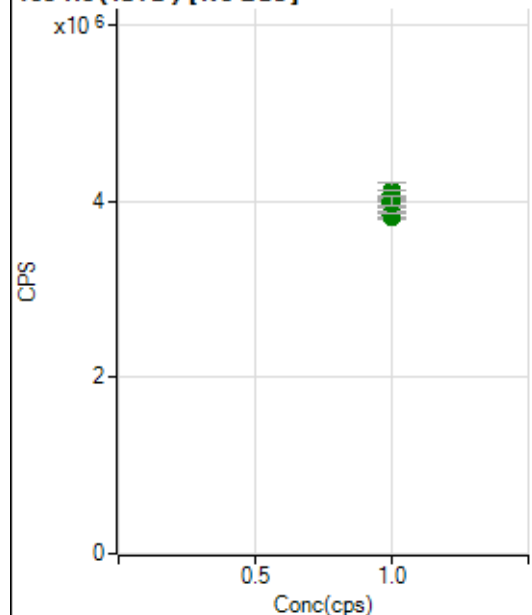
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		710128.39		P	0.8
2	☐	1.000		726014.78		P	0.7
3	☐	1.000		744831.61		P	0.6
4	☐	1.000		764160.41		P	3.2
5	☐	1.000		741023.70		P	1.2
6	☐	1.000		762102.46		P	2.5
7	☐	1.000		746571.29		P	0.6
8	☐	1.000		772211.31		P	0.4

159 Tb (ISTD) [No Gas]

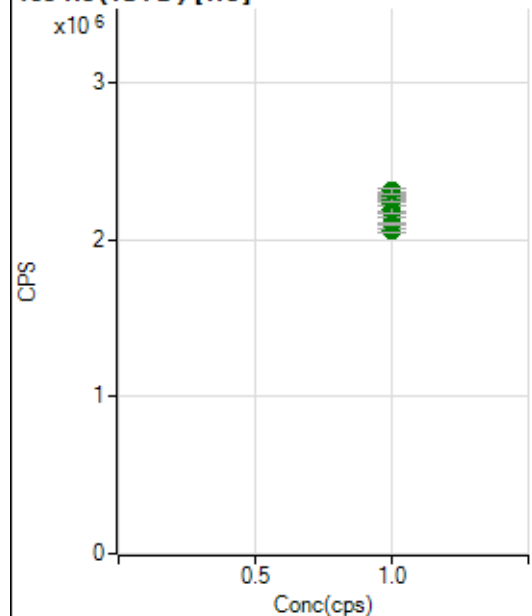
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		4114009.38		A	1.6
2	☐	1.000		4110839.21		A	2.1
3	☐	1.000		4147262.58		A	0.3
4	☐	1.000		4244550.18		A	1.2
5	☐	1.000		4367474.38		A	5.5
6	☐	1.000		4309969.35		A	1.7
7	☐	1.000		4354347.05		A	1.4
8	☐	1.000		4280664.62		A	2.8

159 Tb (ISTD) [He]

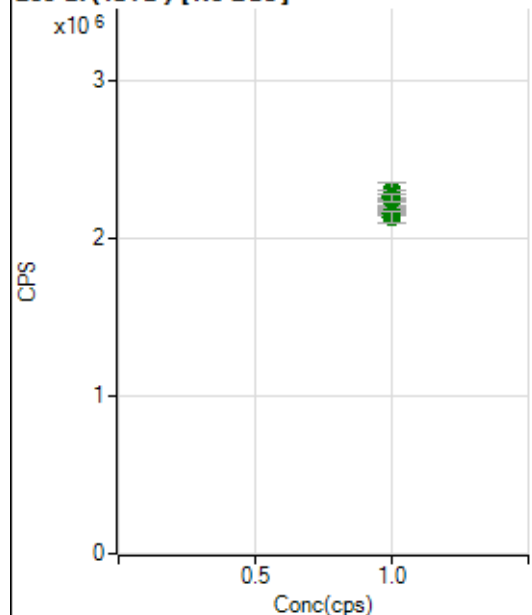
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		2047118.80		A	1.2
2	☐	1.000		2097588.96		A	0.8
3	☐	1.000		2167751.39		A	0.7
4	☐	1.000		2215301.63		A	2.4
5	☐	1.000		2200422.49		A	0.5
6	☐	1.000		2239513.89		A	2.4
7	☐	1.000		2264040.59		A	1.3
8	☐	1.000		2279185.26		A	0.9

165 Ho (ISTD) [No Gas]

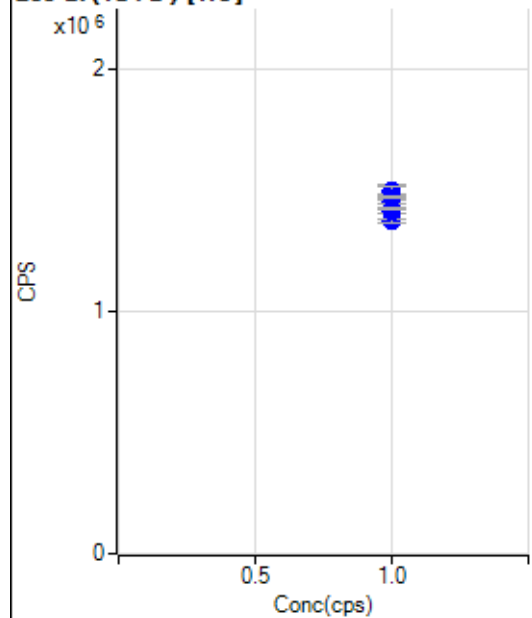
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		3830433.25		A	1.7
2	☐	1.000		3845983.98		A	0.9
3	☐	1.000		3873563.76		A	0.9
4	☐	1.000		3970771.23		A	1.5
5	☐	1.000		4121423.18		A	4.4
6	☐	1.000		4002425.43		A	2.9
7	☐	1.000		4077175.87		A	2.1
8	☐	1.000		4015286.46		A	2.7

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		2057234.88		A	0.9
2	☐	1.000		2101635.06		A	1.1
3	☐	1.000		2165200.40		A	1.5
4	☐	1.000		2228728.56		A	4.4
5	☐	1.000		2192584.64		A	1.9
6	☐	1.000		2281707.80		A	1.9
7	☐	1.000		2256248.27		A	1.2
8	☐	1.000		2311859.39		A	1.2

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		2175505.73		A	1.5
2	☐	1.000		2163367.50		A	1.3
3	☐	1.000		2202516.74		A	0.3
4	☐	1.000		2245585.35		A	1.0
5	☐	1.000		2301444.34		A	4.6
6	☐	1.000		2269290.57		A	2.9
7	☐	1.000		2260751.81		A	2.1
8	☐	1.000		2134737.45		A	3.3

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		1372746.56		P	1.1
2	☐	1.000		1411344.04		P	1.6
3	☐	1.000		1448539.44		P	1.1
4	☐	1.000		1491785.46		P	3.5
5	☐	1.000		1453221.30		P	1.5
6	☐	1.000		1495255.69		P	2.3
7	☐	1.000		1468794.34		P	0.5
8	☐	1.000		1421330.59		P	0.9

US EPA Tune Check Report

Operator Name Jaswal
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\P8082420M.b
Acq. Date-Time 2020-08-24 14:46:29
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		2480	24804.90			0.688	5.000
24		39091	390911.49			0.486	5.000
25		5271	52712.68			0.554	5.000
26		6173	61730.34			0.611	5.000
59		17607	176073.56			0.815	5.000
113		2645	26450.64			0.980	5.000
115		7940	79395.56			0.778	5.000
206		2635	26346.18			1.223	5.000
207		2157	21568.08			2.086	5.000
208		5429	54288.08			1.333	5.000
220		1	7.60			40.395	

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

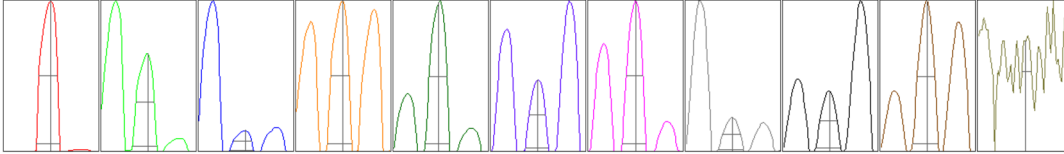
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	2497	2474	2500	2469	2462
24	39077	38990	39362	39169	38858
25	5283	5262	5284	5302	5226
26	6140	6146	6233	6161	6184
59	17508	17631	17531	17848	17518
113	2620	2614	2662	2670	2659
115	7960	7918	7937	8026	7856
206	2608	2608	2618	2674	2665
207	2109	2132	2145	2173	2226
208	5353	5366	5417	5504	5503

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	0	1

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	4472.03	9.00	8.90 - 9.10	
24	71112.92	24.00	23.90 - 24.10	
25	9643.07	25.00	24.90 - 25.10	
26	11185.17	26.00	25.90 - 26.10	
59	32334.63	58.95	58.90 - 59.10	
113	5297.52	113.00	112.90 - 113.10	
115	15696.50	115.05	114.90 - 115.10	
206	4955.35	206.00	205.90 - 206.10	
207	4091.31	207.00	206.90 - 207.10	
208	10213.43	208.00	207.90 - 208.10	
220	0.95	220.05	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.59	0.736	0.900	
24	0.58	0.777	0.900	
25	0.59	0.742	0.900	
26	0.59	0.779	0.900	
59	0.57	0.770	0.900	
113	0.52	0.725	0.900	
115	0.52	0.755	0.900	
206	0.55	0.791	0.900	
207	0.55	0.793	0.900	
208	0.55	0.816	0.900	
220	0.31			

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode HMI Nebulizer Gas 0.50 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	10.2 V	Deflect	14.2 V
Extract 2	-235.0 V	Cell Entrance	-30 V	Plate Bias	-50 V
Omega Bias	-100 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	160 V		

QP Parameters

Mass Gain	122	Axis Gain	0.9994	QP Bias	-4.0 V
Mass Offset	125	Axis Offset	-0.03		

Hardware Settings

Torch

Torch H	0.7 mm	Torch V	-0.1 mm
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EM

Discriminator	4.0 mV	Analog HV	2184 V	Pulse HV	1276 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		4557	45574.56			1.089	
89		2787	27872.14			1.115	
205		7896	78958.83			1.105	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	4545	4524	4637	4512	4569
89	2778	2749	2831	2776	2803
205	7796	7909	7957	7819	7999

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	HMI	Nebulizer Gas	0.50 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	10.2 V	Deflect	4.0 V
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US EPA Tune Check Report

Extract 2	-235.0 V	Cell Entrance	-50 V	Plate Bias	-60 V
Omega Bias	-100 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	0.9994	QP Bias	-13.0 V
Mass Offset	125	Axis Offset	-0.03		
Hardware Settings					
Torch					
Torch H	0.7 mm	Torch V	-0.1 mm		
EM					
Discriminator	4.0 mV	Analog HV	2184 V	Pulse HV	1276 V