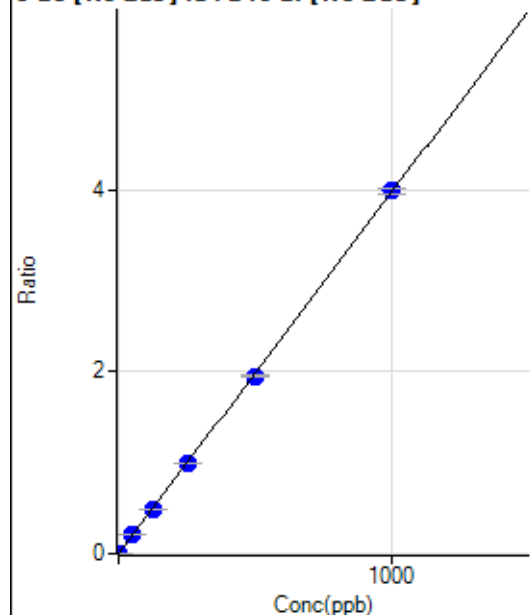


Calibration for 006CALS.d

Batch Folder: D:\Agilent\ICPMH\1\DATA\P8092220MS.b\
 Analysis File: P8092220MS.batch.bin
 DA Date-Time: 2020-09-22 15:09:46
 Calibration Title:
 Calibration Method: External Calibration
 VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	003CALB.d	S00	2020-09-22 10:53:03
2	004CALS.d	S02	2020-09-22 10:56:27
3	005CALS.d	S03	2020-09-22 10:59:49
4	006CALS.d	S04	2020-09-22 11:03:12
5	007CALS.d	S05	2020-09-22 11:06:29
6	008CALS.d	S06	2020-09-22 11:09:42
7	009CALS.d	S07	2020-09-22 11:12:47
8	010CALS.d	S08	2020-09-22 11:15:48

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	49.99	0.0002	P	28.3
2	☐	1.000	0.917	829.86	0.0039	P	11.4
3	☐	50.000	51.850	45923.20	0.2059	P	0.7
4	☐	125.000	124.030	111534.24	0.4923	P	0.7
5	☐	250.000	250.119	226154.66	0.9926	P	0.3
6	☐	500.000	492.084	453096.69	1.9526	P	0.6
7	☐	1000.000	1003.957	924698.13	3.9835	P	1.3
8	☐			234.62	0.0010	P	9.9

$$y = 0.0040 * x + 2.2556E-004$$

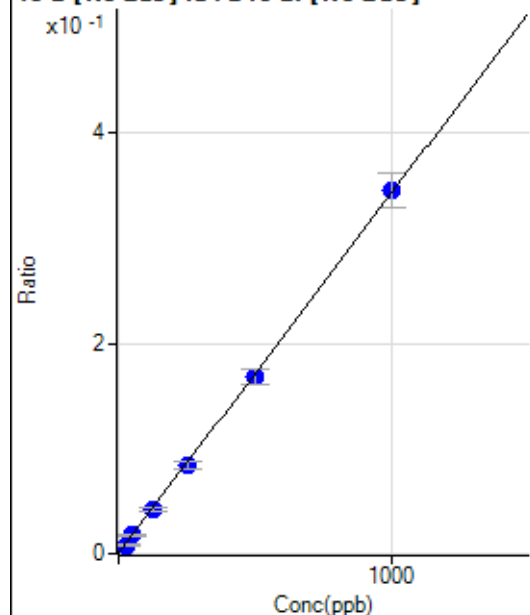
$$R = 0.9999$$

$$DL = 0.04833$$

$$BEC = 0.05685$$

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	95.98	0.0004	P	19.3
2	☐	25.000	21.971	1702.43	0.0079	P	18.0
3	☐	50.000	49.765	3893.76	0.0175	P	6.2
4	☐	125.000	121.636	9526.55	0.0420	P	7.3
5	☐	250.000	245.084	19196.05	0.0843	P	7.8
6	☐	500.000	491.097	39071.32	0.1684	P	8.9
7	☐	1000.000	1006.189	79984.62	0.3446	P	9.4
8	☐			10204.90	0.0443	P	13.6

$$y = 3.4207E-004 * x + 4.3319E-004$$

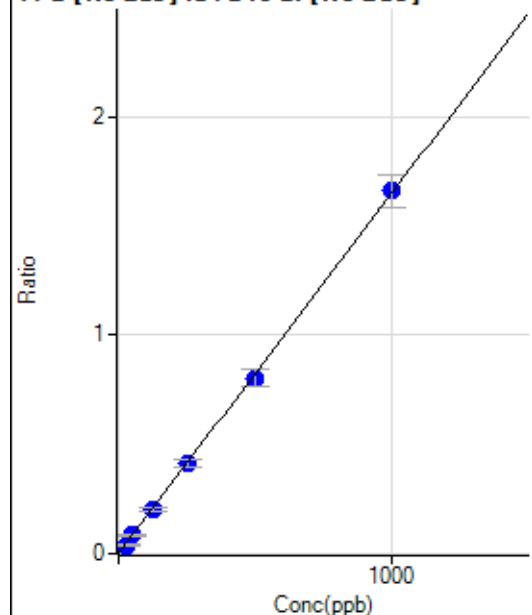
$$R = 0.9999$$

$$DL = 0.7334$$

$$BEC = 1.266$$

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	367.26	0.0017	P	1.2
2	☐	25.000	21.719	8019.30	0.0374	P	16.1
3	☐	50.000	51.048	19116.67	0.0857	P	9.0
4	☐	125.000	121.882	45844.16	0.2023	P	8.3
5	☐	250.000	247.891	93336.61	0.4097	P	8.5
6	☐	500.000	487.425	186529.02	0.8041	P	9.7
7	☐	1000.000	1007.234	385240.49	1.6598	P	9.2
8	☐			48252.37	0.2096	P	14.1

$$y = 0.0016 * x + 0.0017$$

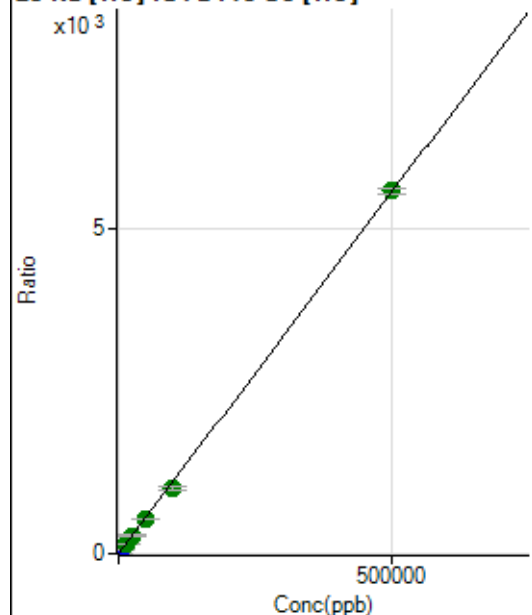
$$R = 0.9999$$

$$DL = 0.03483$$

$$BEC = 1.006$$

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	25828.89	2.2510	P	2.7
2	☐	500.000	462.212	84485.91	7.3950	P	0.8
3	☐	5000.000	5163.969	687862.29	59.7204	P	1.9
4	☐	12500.000	12241.254	1628617.62	138.4828	A	2.6
5	☐	25000.000	24877.179	3231593.84	279.1068	A	5.3
6	☐	50000.000	46849.164	6280159.95	523.6308	A	1.7
7	☐	100000.00	89906.120	12610250.19	1,002.8075	A	4.0
8	☐	500000.00	502344.86	61682512.49	5,592.7984	A	1.7

$$y = 0.0111 * x + 2.2510$$

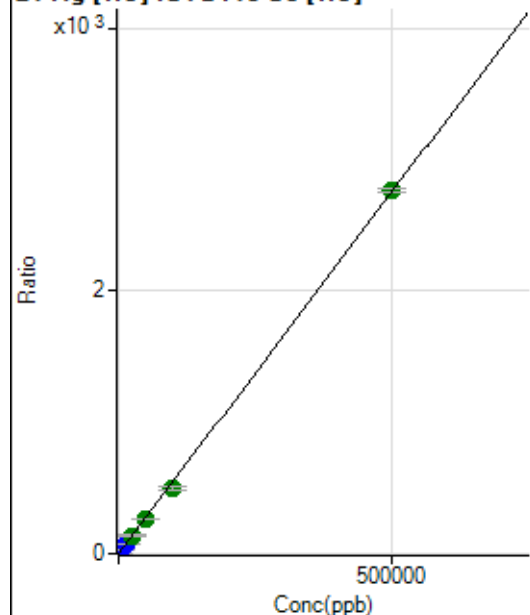
$$R = 0.9998$$

$$DL = 16.36$$

$$BEC = 202.3$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	538.91	0.0470	P	7.0
2	☐	500.000	454.786	29135.31	2.5503	P	3.5
3	☐	5000.000	5223.967	331760.42	28.8021	P	1.5
4	☐	12500.000	12354.603	800372.00	68.0524	P	1.3
5	☐	25000.000	24881.823	1586508.72	137.0080	A	5.0
6	☐	50000.000	47132.485	3112147.49	259.4860	A	1.3
7	☐	100000.00	90675.746	6276847.19	499.1683	A	4.2
8	☐	500000.00	502158.95	30488037.14	2,764.1624	A	1.0

$$y = 0.0055 * x + 0.0470$$

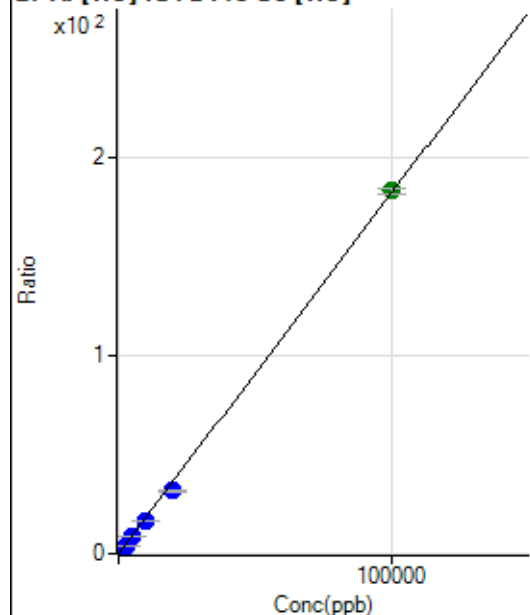
$$R = 0.9998$$

$$DL = 1.797$$

$$BEC = 8.53$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	577.44	0.0503	P	2.7
2	☐	20.000	16.912	927.42	0.0811	P	5.6
3	☐	1000.000	981.040	21176.03	1.8383	P	0.6
4	☐	2500.000	2296.658	49819.57	4.2360	P	1.3
5	☐	5000.000	4723.360	100268.42	8.6587	P	4.9
6	☐	10000.000	9057.409	198585.63	16.5575	P	1.2
7	☐	20000.000	17402.719	399470.34	31.7668	P	4.0
8	☐	100000.00	100632.82	2023296.21	183.4537	A	1.7

$$y = 0.0018 * x + 0.0503$$

$$R = 0.9996$$

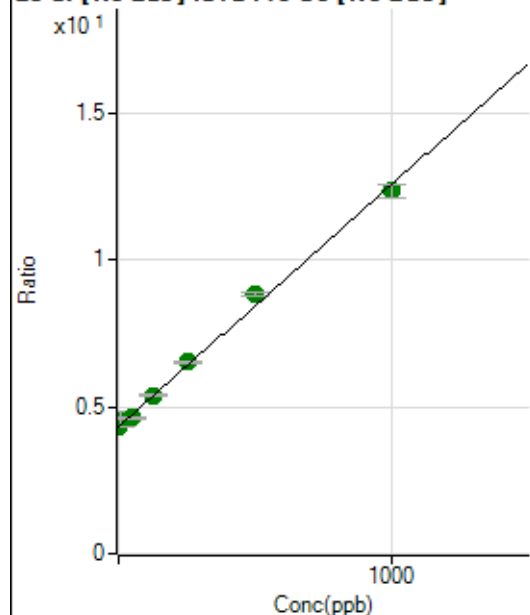
$$DL = 2.198$$

$$BEC = 27.61$$

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	1184022.73	4.3270	A	1.6
2	☐	10.000	29.833	1206014.44	4.5728	A	11.5
3	☐	50.000	35.486	1293867.39	4.6194	A	0.7
4	☐	125.000	129.072	1531955.03	5.3907	A	1.5
5	☐	250.000	266.098	1834539.19	6.5199	A	0.9
6	☐	500.000	545.172	2544267.63	8.8198	A	1.8
7	☐	1000.000	973.408	3539506.55	12.3490	A	3.5
8	☐			1250845.58	4.5720	A	4.6

$$y = 0.0082 * x + 4.3270$$

$$R = 0.9980$$

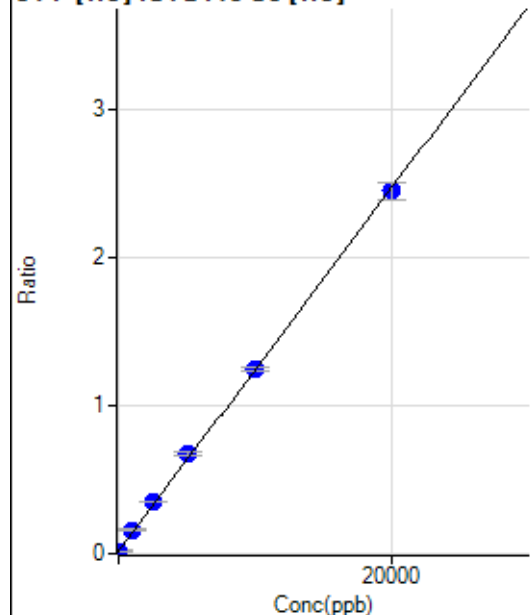
$$DL = 25.06$$

$$BEC = 525$$

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	1.899	188.89	0.0165	P	46.2
2	☐	0.000	-1.899	183.34	0.0160	P	23.5
3	☐	1000.000	1184.259	1855.72	0.1612	P	9.8
4	☐	2500.000	2721.342	4109.03	0.3494	P	1.9
5	☐	5000.000	5421.445	7880.11	0.6800	P	3.7
6	☐	10000.000	10031.330	14921.99	1.2443	P	2.8
7	☐	20000.000	19842.093	30741.47	2.4454	P	5.1
8	☐			241.68	0.0219	P	22.1

$$y = 1.2243E-004 * x + 0.0162$$

$$R = 0.9997$$

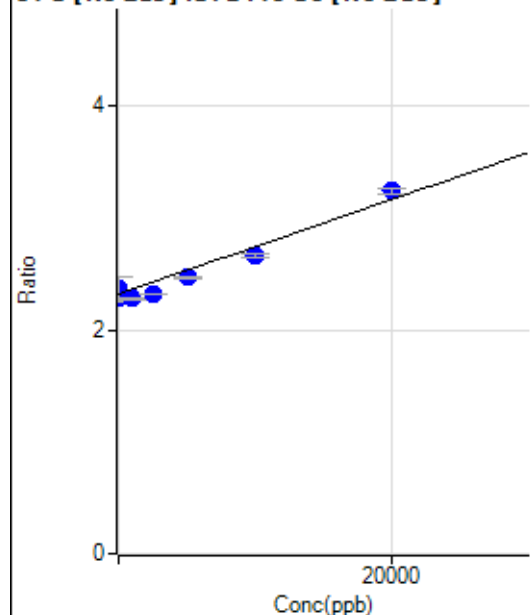
$$DL = 139.3$$

$$BEC = 132.6$$

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	-1030.240	624323.71	2.2815	P	0.4
2	☐	0.000	1030.240	625419.96	2.3685	P	9.5
3	☐	1000.000	-1069.721	638554.34	2.2798	P	0.7
4	☐	2500.000	0.861	660757.08	2.3250	P	0.1
5	☐	5000.000	3407.391	694673.82	2.4689	P	0.5
6	☐	10000.000	8006.882	768147.62	2.6630	P	1.1
7	☐	20000.000	21810.590	930473.14	3.2458	P	1.5
8	☐			607846.55	2.2209	P	3.1

$$y = 4.2220\text{E-}005 * x + 2.3250$$

$$R = 0.9840$$

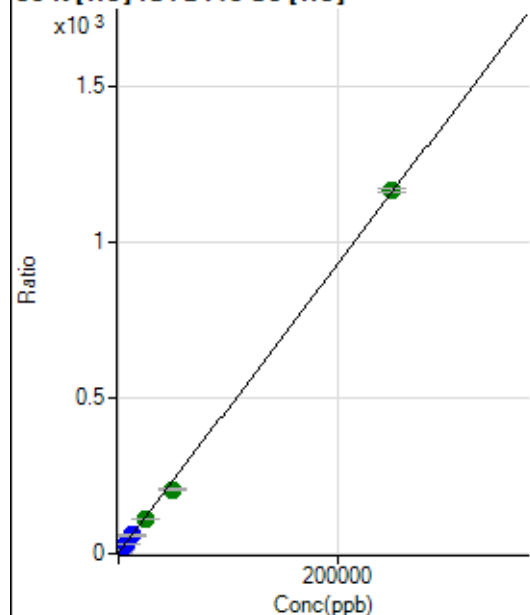
$$DL = 8371$$

$$BEC = 5.507\text{E}+04$$

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	28962.92	2.5242	P	1.6
2	☐	500.000	435.533	51807.33	4.5348	P	1.3
3	☐	2500.000	2543.456	164339.69	14.2659	P	0.4
4	☐	6250.000	5927.443	351468.51	29.8878	P	2.4
5	☐	12500.000	12189.824	681090.44	58.7976	P	3.9
6	☐	25000.000	23306.574	1320743.18	110.1172	A	0.9
7	☐	50000.000	44106.276	2593141.03	206.1374	A	2.8
8	☐	250000.00	251371.35	12827009.23	1,162.9603	A	1.2

$$y = 0.0046 * x + 2.5242$$

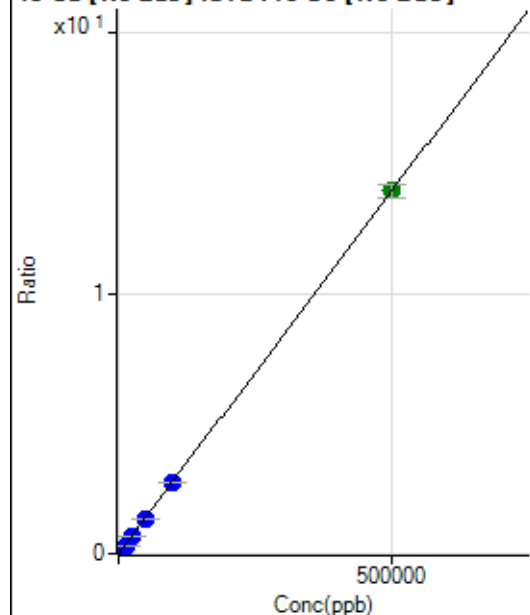
$$R = 0.9997$$

$$DL = 26.45$$

$$BEC = 546.8$$

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	356.21	0.0013	P	7.4
2	☐	500.000	463.569	3746.70	0.0142	P	10.4
3	☐	5000.000	4955.724	38976.40	0.1392	P	0.4
4	☐	12500.000	11876.052	94255.18	0.3317	P	0.1
5	☐	25000.000	24154.051	189421.14	0.6732	P	0.2
6	☐	50000.000	47907.076	384779.84	1.3339	P	0.5
7	☐	100000.00	97578.531	778486.89	2.7157	P	1.4
8	☐	500000.00	500751.96	3812461.34	13.9308	A	3.4

$$y = 2.7817\text{E-}005 * x + 0.0013$$

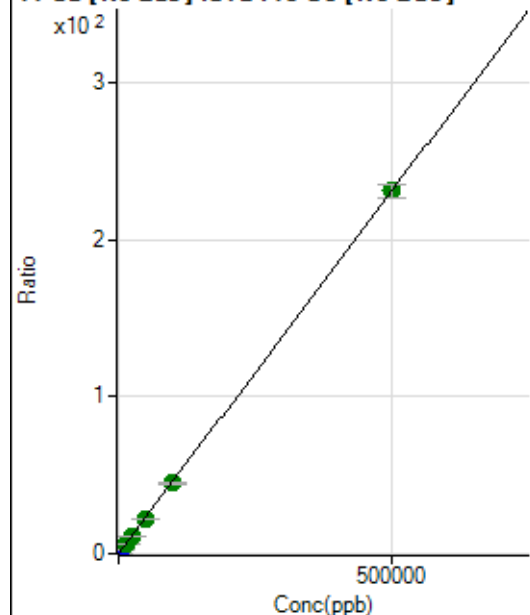
$$R = 1.0000$$

$$DL = 10.34$$

$$BEC = 46.78$$

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	28934.13	0.1057	P	1.2
2	☐	500.000	474.573	85724.75	0.3248	P	10.5
3	☐	5000.000	5036.312	680854.82	2.4309	P	0.8
4	☐	12500.000	11935.723	1596056.20	5.6161	A	0.8
5	☐	25000.000	24174.130	3170081.58	11.2663	A	0.4
6	☐	50000.000	47596.876	6369018.10	22.0799	A	0.5
7	☐	100000.00	97466.293	12929105.03	45.1033	A	1.9
8	☐	500000.00	500802.11	63298464.88	231.3127	A	3.7

$$y = 4.6167\text{E-}004 * x + 0.1057$$

$$R = 1.0000$$

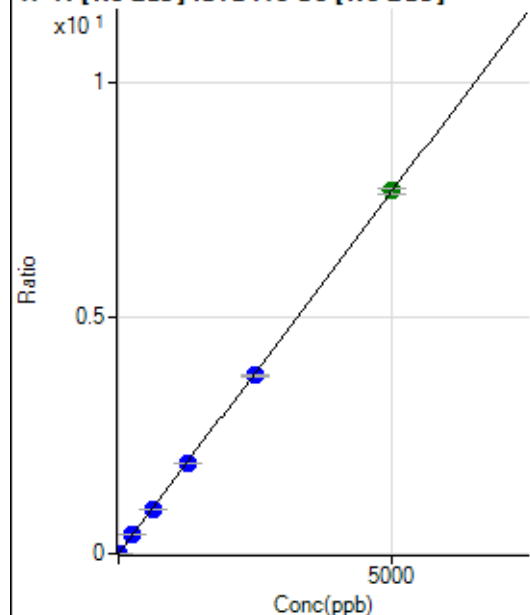
$$DL = 8.02$$

$$BEC = 229$$

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	500.02	0.0018	P	20.9
2	☐	5.000	4.873	2447.50	0.0093	P	13.9
3	☐	250.000	254.421	109670.91	0.3916	P	1.5
4	☐	625.000	612.575	267197.72	0.9402	P	0.8
5	☐	1250.000	1250.772	539621.37	1.9178	P	0.1
6	☐	2500.000	2469.722	1091786.44	3.7850	P	1.0
7	☐	5000.000	5016.278	2203249.72	7.6859	A	1.9
8	☐			616.70	0.0022	P	7.7

$$y = 0.0015 * x + 0.0018$$

$$R = 1.0000$$

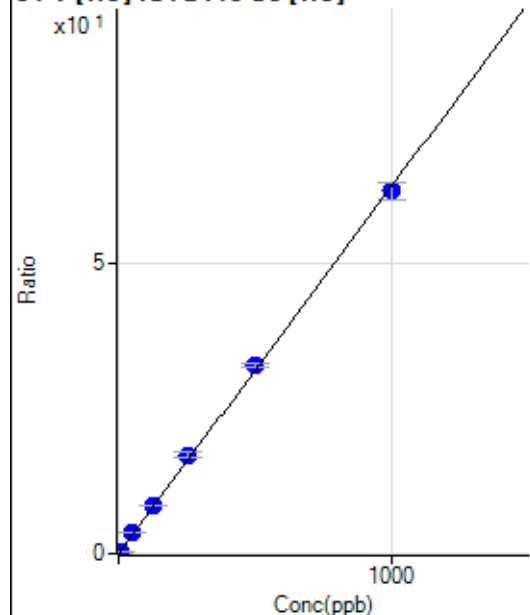
$$DL = 0.747$$

$$BEC = 1.194$$

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	12.22	0.0011	P	41.6
2	☐	5.000	4.856	3513.80	0.3075	P	3.5
3	☐	50.000	55.725	40527.27	3.5182	P	0.7
4	☐	125.000	129.776	96350.34	8.1919	P	0.9
5	☐	250.000	268.538	196282.14	16.9499	P	4.9
6	☐	500.000	512.760	388158.47	32.3641	P	1.5
7	☐	1000.000	988.103	784074.82	62.3655	P	4.7
8	☐			105.56	0.0096	P	23.5

$$y = 0.0631 * x + 0.0011$$

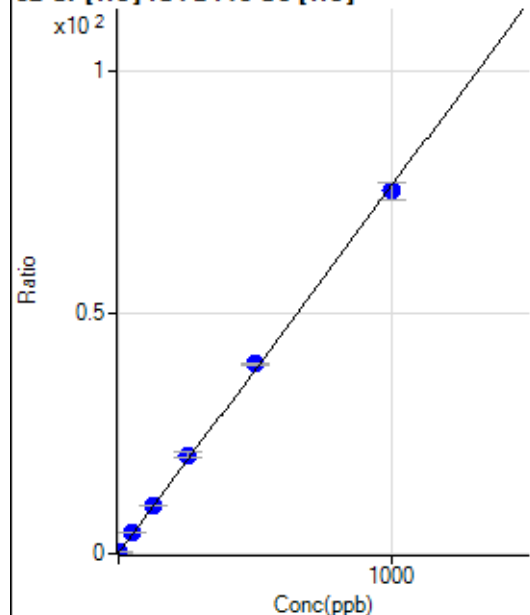
$$R = 0.9997$$

$$DL = 0.02106$$

$$BEC = 0.01688$$

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	871.15	0.0759	P	6.4
2	☐	2.000	1.970	2580.26	0.2259	P	4.5
3	☐	50.000	55.630	49673.63	4.3118	P	0.3
4	☐	125.000	130.789	118020.75	10.0346	P	1.1
5	☐	250.000	268.585	237716.72	20.5270	P	4.7
6	☐	500.000	515.339	471561.22	39.3157	P	0.8
7	☐	1000.000	986.679	945561.49	75.2053	P	4.5
8	☐			1943.48	0.1762	P	4.3

$$y = 0.0761 * x + 0.0759$$

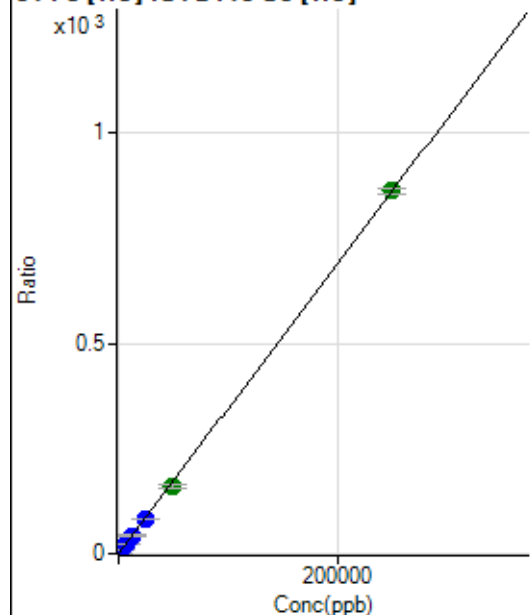
$$R = 0.9996$$

$$DL = 0.1916$$

$$BEC = 0.997$$

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	385.20	0.0336	P	9.2
2	☐	50.000	48.774	2300.23	0.2013	P	8.3
3	☐	2500.000	2607.730	103684.90	9.0019	P	1.9
4	☐	6250.000	6128.113	248265.35	21.1090	P	1.4
5	☐	12500.000	12588.870	501654.34	43.3285	P	5.5
6	☐	25000.000	24032.948	991725.48	82.6863	P	1.0
7	☐	50000.000	46379.927	2005287.81	159.5407	A	5.7
8	☐	250000.00	250818.24	9514234.01	862.6332	A	1.4

$$y = 0.0034 * x + 0.0336$$

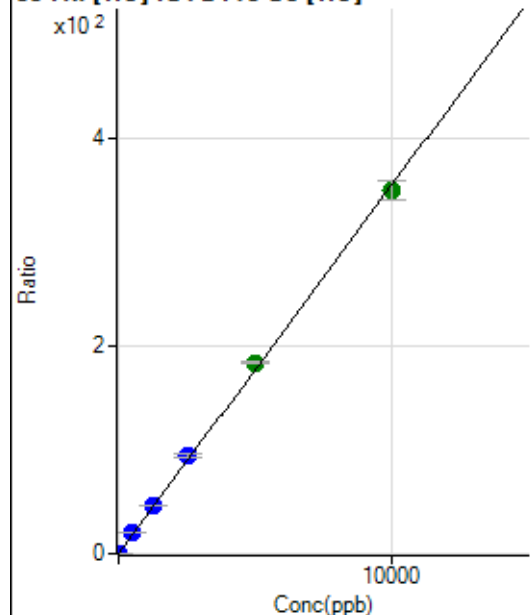
$$R = 0.9999$$

$$DL = 2.708$$

$$BEC = 9.764$$

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	95.56	0.0083	P	33.1
2	☐	1.000	1.055	522.24	0.0457	P	6.3
3	☐	500.000	556.403	227398.38	19.7401	P	0.6
4	☐	1250.000	1302.813	543476.73	46.2100	P	1.4
5	☐	2500.000	2674.837	1098584.83	94.8660	P	4.8
6	☐	5000.000	5191.027	2208464.31	184.0976	A	1.2
7	☐	10000.000	9851.355	4391448.16	349.3667	A	5.4
8	☐			2961.45	0.2685	P	2.9

$$y = 0.0355 * x + 0.0083$$

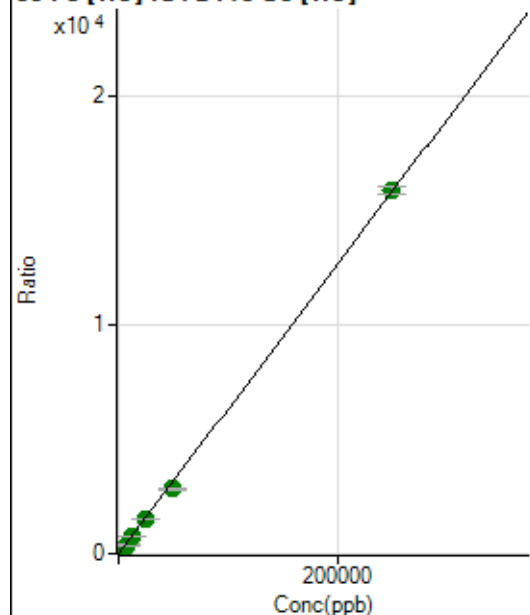
$$R = 0.9996$$

$$DL = 0.2333$$

$$BEC = 0.235$$

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	2731.79	0.2381	P	8.0
2	☐	50.000	46.058	35897.14	3.1422	P	1.3
3	☐	2500.000	2554.676	1858318.04	161.3199	A	1.2
4	☐	6250.000	5978.719	4436531.06	377.2184	A	1.3
5	☐	12500.000	12147.126	8871520.68	766.1592	A	5.2
6	☐	25000.000	23396.999	17697857.69	1,475.5051	A	0.7
7	☐	50000.000	44762.851	35484235.05	2,822.7009	A	5.1
8	☐	250000.00	251231.61	174708302.0	15,841.317	A	2.1

$$y = 0.0631 * x + 0.2381$$

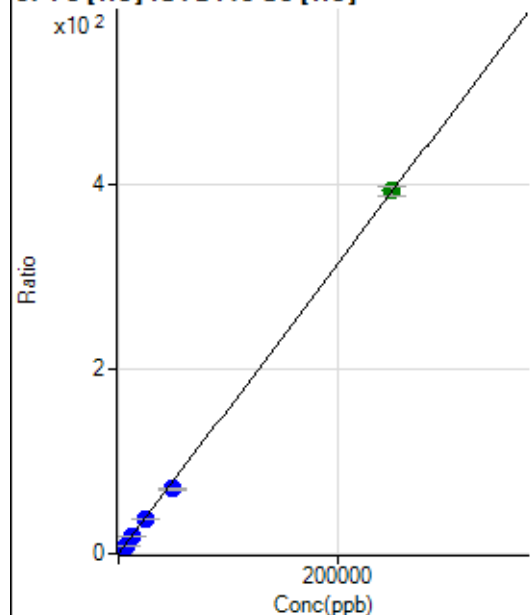
$$R = 0.9998$$

$$DL = 0.9099$$

$$BEC = 3.776$$

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	151.86	0.0132	P	15.1
2	☐	50.000	46.391	981.54	0.0858	P	9.6
3	☐	2500.000	2557.974	46269.62	4.0168	P	1.2
4	☐	6250.000	5919.925	109142.38	9.2788	P	0.1
5	☐	12500.000	12237.848	221901.34	19.1672	P	5.7
6	☐	25000.000	23455.465	440492.67	36.7244	P	0.6
7	☐	50000.000	44756.895	880872.74	70.0642	P	4.8
8	☐	250000.00	251223.85	4336541.76	393.2146	A	2.3

$$y = 0.0016 * x + 0.0132$$

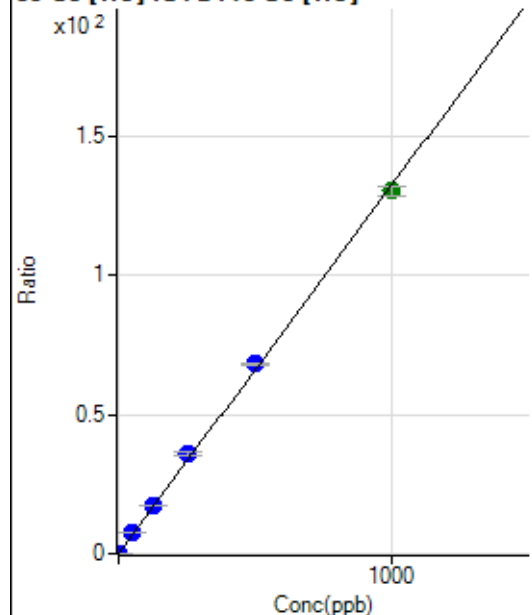
$$R = 0.9998$$

$$DL = 3.821$$

$$BEC = 8.455$$

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	31.11	0.0027	P	15.9
2	☐	1.000	0.968	1495.65	0.1308	P	4.2
3	☐	50.000	56.041	85472.15	7.4197	P	0.7
4	☐	125.000	132.124	205706.97	17.4891	P	0.5
5	☐	250.000	271.131	415585.45	35.8864	P	4.8
6	☐	500.000	516.640	820136.84	68.3790	P	1.0
7	☐	1000.000	985.205	1640196.42	130.3928	A	3.0
8	☐			2813.64	0.2550	P	3.1

$$y = 0.1323 * x + 0.0027$$

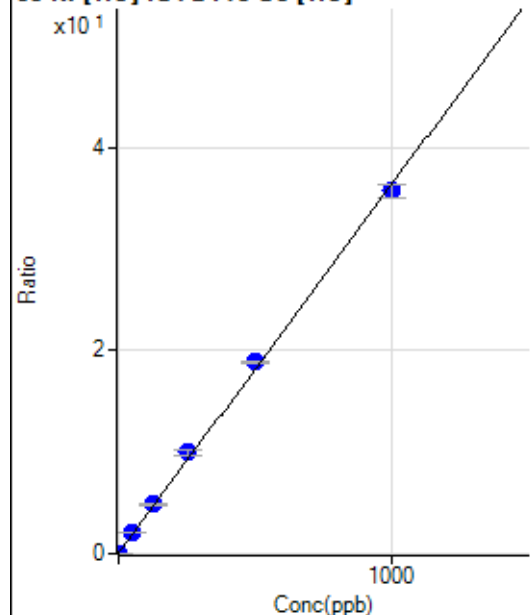
$$R = 0.9995$$

$$DL = 0.009753$$

$$BEC = 0.02048$$

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	364.45	0.0318	P	8.8
2	☐	1.000	1.024	787.81	0.0689	P	9.4
3	☐	50.000	56.855	24121.65	2.0942	P	1.8
4	☐	125.000	132.638	56959.02	4.8433	P	1.9
5	☐	250.000	273.354	115197.41	9.9479	P	5.0
6	☐	500.000	519.426	226380.05	18.8743	P	0.9
7	☐	1000.000	983.151	448882.73	35.6963	P	4.0
8	☐			766.70	0.0695	P	6.5

$$y = 0.0363 * x + 0.0318$$

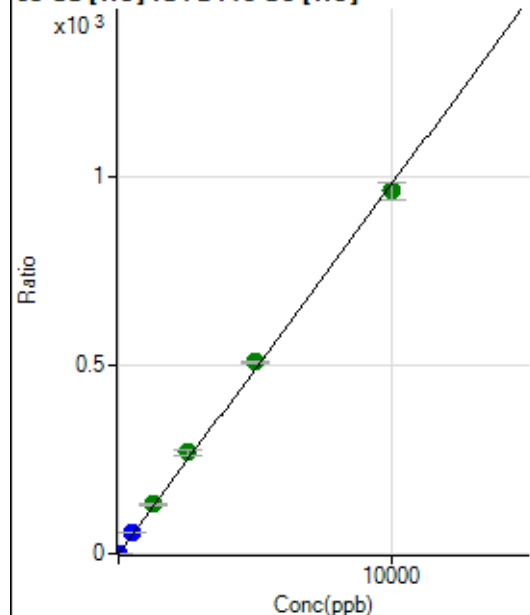
$$R = 0.9994$$

$$DL = 0.2315$$

$$BEC = 0.8758$$

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	533.35	0.0465	P	2.5
2	☐	2.000	2.045	2819.19	0.2467	P	2.7
3	☐	500.000	573.109	646985.67	56.1706	P	1.8
4	☐	1250.000	1337.517	1540988.88	131.0285	A	1.8
5	☐	2500.000	2738.001	3105760.37	268.1771	A	4.7
6	☐	5000.000	5199.106	6107054.63	509.1913	A	1.2
7	☐	10000.000	9826.352	12098477.60	962.3343	A	4.9
8	☐			4847.55	0.4396	P	4.4

$$y = 0.0979 * x + 0.0465$$

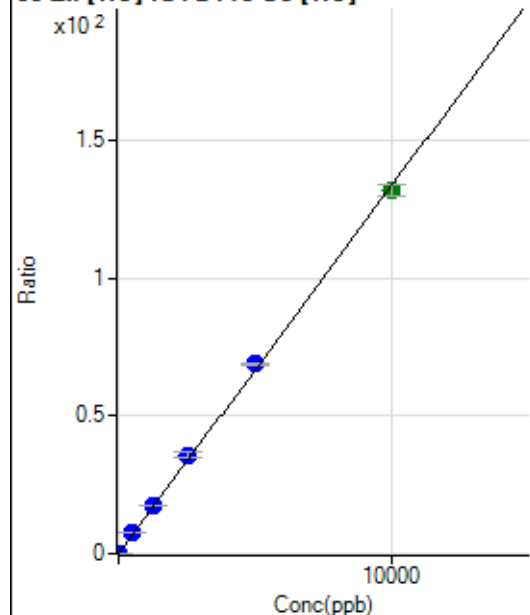
$$R = 0.9994$$

$$DL = 0.036$$

$$BEC = 0.4746$$

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	105.56	0.0092	P	11.2
2	☐	2.000	2.122	428.90	0.0375	P	13.7
3	☐	500.000	572.207	88101.76	7.6482	P	1.4
4	☐	1250.000	1311.918	206094.19	17.5234	P	1.3
5	☐	2500.000	2683.672	414971.91	35.8365	P	5.0
6	☐	5000.000	5159.623	826260.12	68.8907	P	1.1
7	☐	10000.000	9862.920	1656271.14	131.6802	A	3.3
8	☐			2482.47	0.2250	P	4.1

$$y = 0.0134 * x + 0.0092$$

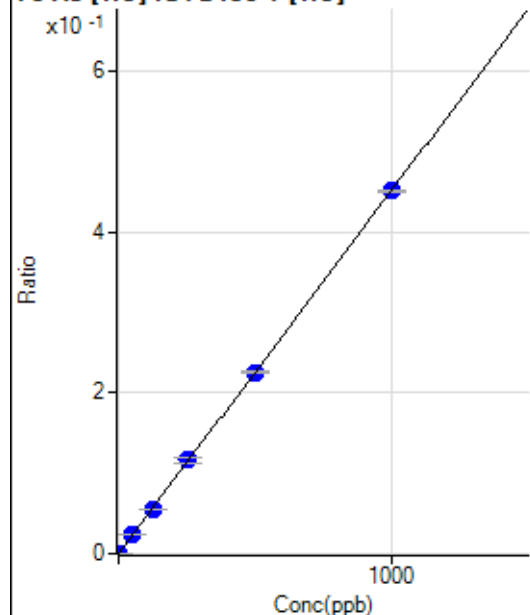
$$R = 0.9996$$

$$DL = 0.2308$$

$$BEC = 0.6891$$

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	6.00	0.0000	P	31.6
2	☐	1.000	0.907	116.01	0.0004	P	3.2
3	☐	50.000	51.251	6322.40	0.0232	P	2.3
4	☐	125.000	122.391	15238.42	0.0553	P	0.7
5	☐	250.000	257.592	30898.10	0.1164	P	5.3
6	☐	500.000	498.565	61694.60	0.2253	P	1.1
7	☐	1000.000	999.083	124227.06	0.4515	P	0.3
8	☐			49.67	0.0002	P	22.1

$$y = 4.5187E-004 * x + 2.1963E-005$$

$$R = 1.0000$$

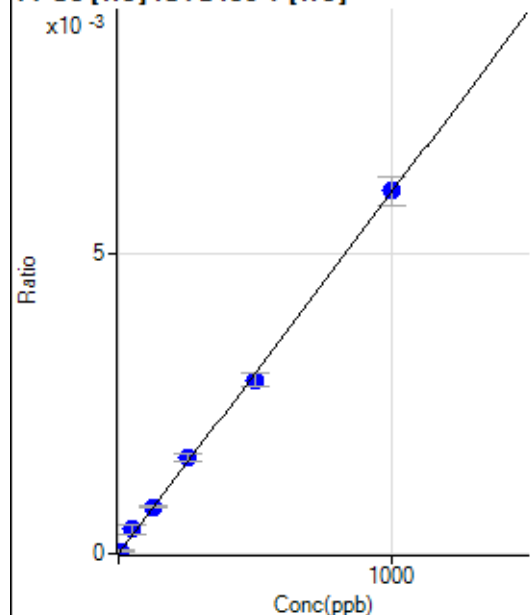
$$DL = 0.0461$$

$$BEC = 0.0486$$

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	0.00	0.0000	P	
2	☐	5.000	6.205	10.00	0.0000	P	58.3
3	☐	50.000	67.015	110.00	0.0004	P	36.6
4	☐	125.000	128.764	213.34	0.0008	P	5.3
5	☐	250.000	266.230	424.46	0.0016	P	9.1
6	☐	500.000	481.301	792.25	0.0029	P	8.6
7	☐	1000.000	1003.965	1662.34	0.0060	P	7.8
8	☐			0.00	0.0000	P	

$$y = 6.0149\text{E-}006 * x + 0.0000\text{E+}000$$

$$R = 0.9995$$

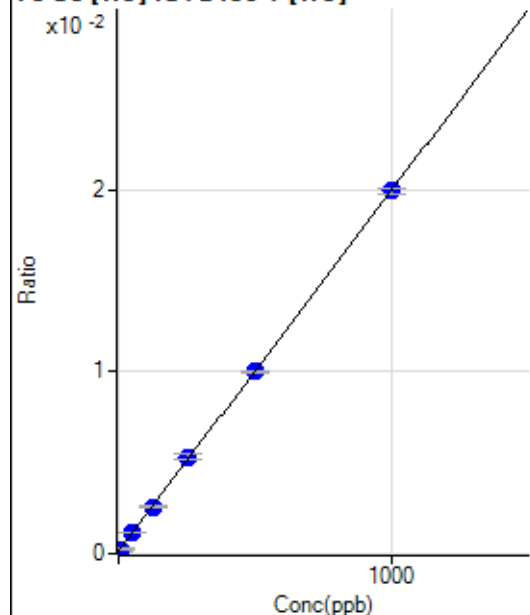
$$DL = 0$$

$$BEC = 0$$

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	37.33	0.0001	P	25.3
2	☐	5.000	6.054	69.01	0.0003	P	6.4
3	☐	50.000	51.793	317.37	0.0012	P	3.5
4	☐	125.000	122.992	709.09	0.0026	P	2.5
5	☐	250.000	260.330	1405.55	0.0053	P	5.7
6	☐	500.000	498.833	2744.88	0.0100	P	1.1
7	☐	1000.000	998.157	5480.96	0.0199	P	1.6
8	☐			39.67	0.0001	P	20.5

$$y = 1.9819\text{E-}005 * x + 1.3701\text{E-}004$$

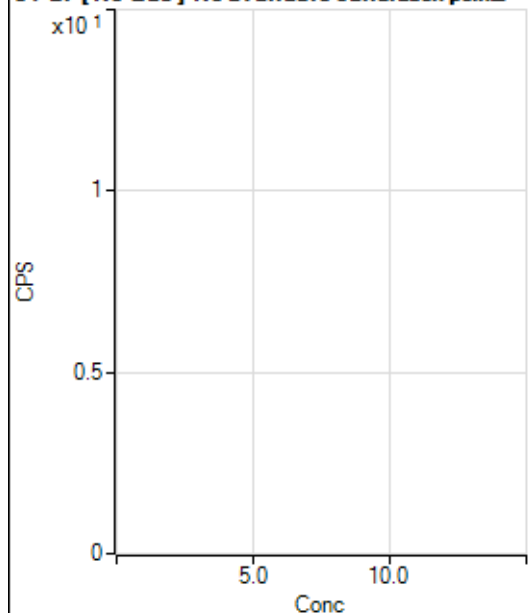
$$R = 0.9999$$

$$DL = 5.248$$

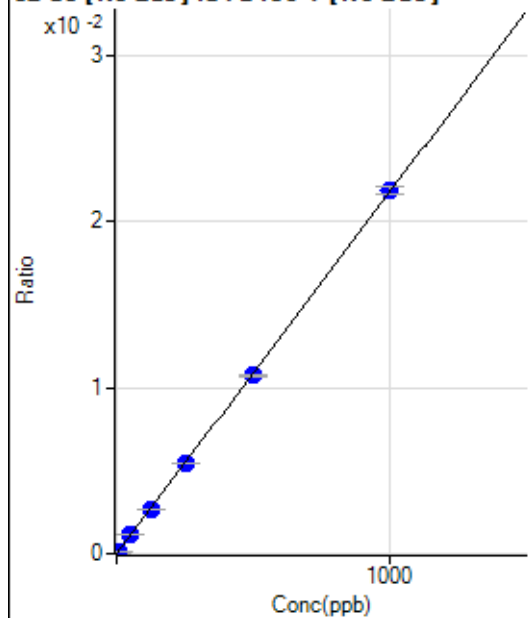
$$BEC = 6.913$$

Weight: <None>

Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			2369.31		P	7.6
2	☐			2319.25		P	5.1
3	☐			2396.03		P	4.5
4	☐			2479.44		P	8.6
5	☐			2512.82		P	9.1
6	☐			2315.92		P	3.7
7	☐			2372.66		P	4.2
8	☐			2809.86		P	6.1

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	-3.33	0.0000	P	-2212.
2	☐	5.000	4.921	229.60	0.0001	P	28.1
3	☐	50.000	51.585	2548.28	0.0011	P	3.6
4	☐	125.000	121.881	6095.07	0.0027	P	2.5
5	☐	250.000	248.014	12281.60	0.0054	P	0.1
6	☐	500.000	493.882	24946.44	0.0108	P	0.9
7	☐	1000.000	1003.867	49838.36	0.0219	P	2.1
8	☐			-15.60	0.0000	P	-574.7

$$y = 2.1791E-005 * x - 1.6225E-006$$

$$R = 1.0000$$

$$DL = 4.943$$

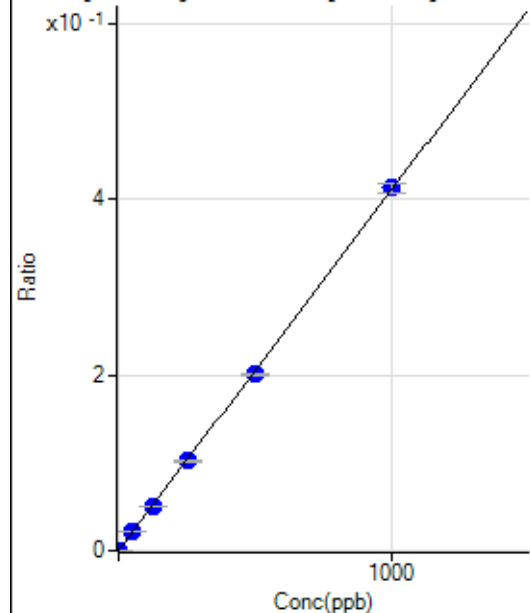
$$BEC = -0.07445$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			570.01		P	10.0
2	☐			581.13		P	13.4
3	☐			561.13		P	4.0
4	☐			641.13		P	3.9
5	☐			541.13		P	6.2
6	☐			558.91		P	0.9
7	☐			603.35		P	2.9
8	☐			574.46		P	16.2

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	838.94	0.0004	P	8.9
2	☐	1.000	1.231	1872.41	0.0009	P	19.2
3	☐	50.000	50.926	48236.72	0.0213	P	1.9
4	☐	125.000	120.719	114492.38	0.0499	P	2.5
5	☐	250.000	248.508	232395.91	0.1022	P	1.1
6	☐	500.000	489.384	465898.78	0.2010	P	1.2
7	☐	1000.000	1006.170	940497.65	0.4128	P	2.5
8	☐			6065.35	0.0028	P	1.2

$$y = 4.0989\text{E-}004 * x + 3.7700\text{E-}004$$

$$R = 0.9999$$

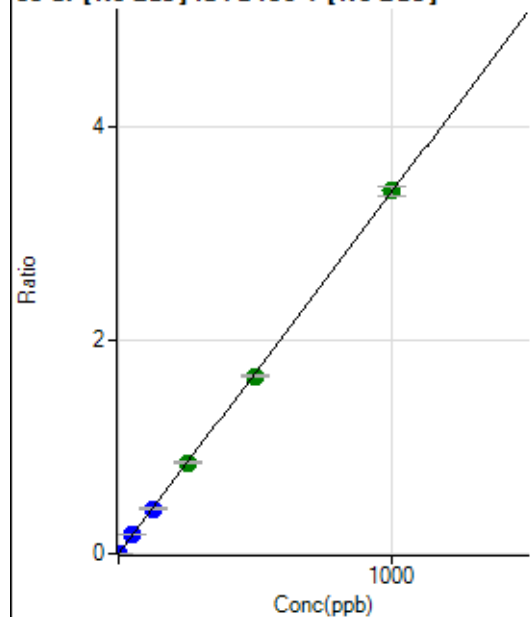
$$DL = 0.246$$

$$BEC = 0.9198$$

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	88.89	0.0000	P	42.3
2	☐	1.000	0.997	7307.68	0.0034	P	7.7
3	☐	50.000	51.529	396774.95	0.1748	P	1.5
4	☐	125.000	124.914	972981.52	0.4237	P	1.5
5	☐	250.000	251.234	1936877.91	0.8521	A	1.3
6	☐	500.000	492.017	3868563.46	1.6687	A	0.8
7	☐	1000.000	1003.617	7754749.57	3.4038	A	2.8
8	☐			42607.21	0.0194	P	3.6

$$y = 0.0034 * x + 3.9942E-005$$

$$R = 1.0000$$

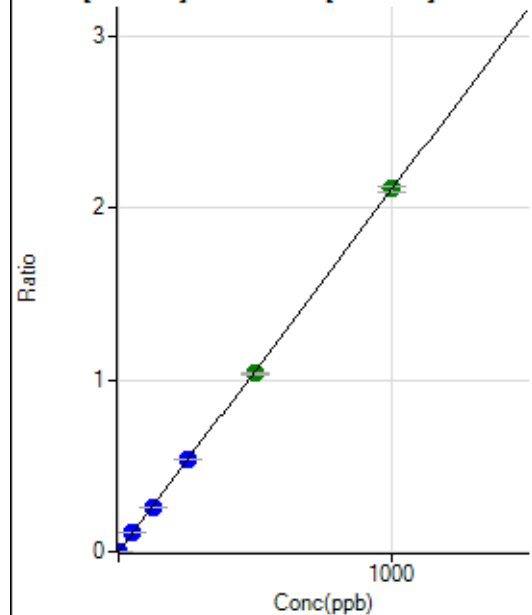
$$DL = 0.01495$$

$$BEC = 0.01178$$

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	22.22	0.0000	P	57.5
2	☐	1.000	0.985	4445.26	0.0021	P	6.5
3	☐	50.000	51.366	245167.80	0.1080	P	0.7
4	☐	125.000	123.889	598199.84	0.2605	P	1.4
5	☐	250.000	253.381	1210962.36	0.5327	P	0.4
6	☐	500.000	493.123	2403584.30	1.0368	A	0.9
7	☐	1000.000	1002.664	4803509.48	2.1081	A	1.5
8	☐			1186.20	0.0005	P	5.6

$$y = 0.0021 * x + 9.9898E-006$$

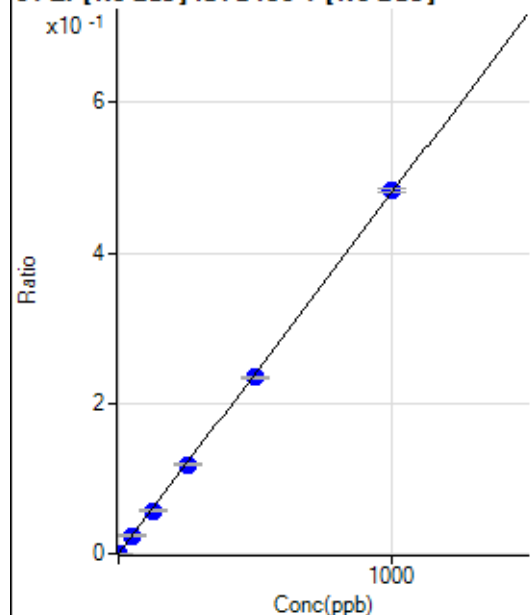
$$R = 1.0000$$

$$DL = 0.008202$$

$$BEC = 0.004751$$

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	5.56	0.0000	P	173.2
2	☐	1.000	0.980	1008.40	0.0005	P	9.5
3	☐	50.000	50.483	54953.26	0.0242	P	1.8
4	☐	125.000	119.852	131979.15	0.0575	P	1.9
5	☐	250.000	246.010	268133.01	0.1180	P	1.7
6	☐	500.000	489.865	544544.59	0.2349	P	1.1
7	☐	1000.000	1006.684	1099971.66	0.4827	P	1.1
8	☐			305.57	0.0001	P	27.9

$$y = 4.7950\text{E-}004 * x + 2.5148\text{E-}006$$

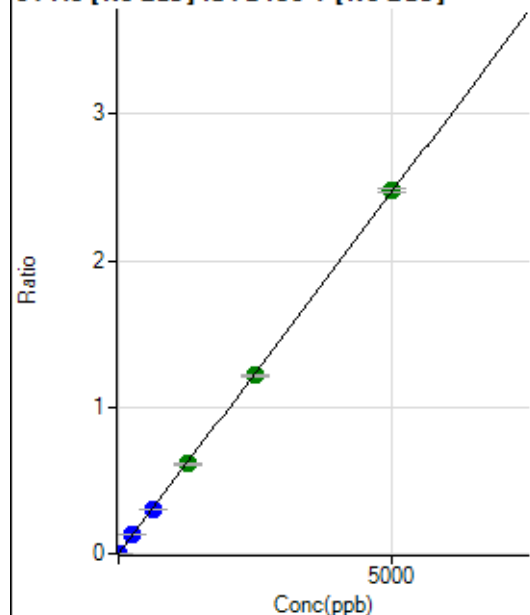
$$R = 0.9999$$

$$DL = 0.02725$$

$$BEC = 0.005245$$

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	33.33	0.0000	P	25.8
2	☐	5.000	4.967	5262.25	0.0025	P	10.4
3	☐	250.000	257.384	288135.98	0.1269	P	0.5
4	☐	625.000	618.817	700765.62	0.3052	P	1.8
5	☐	1250.000	1237.684	1387231.00	0.6103	A	2.0
6	☐	2500.000	2467.942	2821104.73	1.2170	A	1.6
7	☐	5000.000	5019.512	5640230.98	2.4751	A	1.0
8	☐			1589.03	0.0007	P	7.3

$$y = 4.9310\text{E-}004 * x + 1.5008\text{E-}005$$

$$R = 1.0000$$

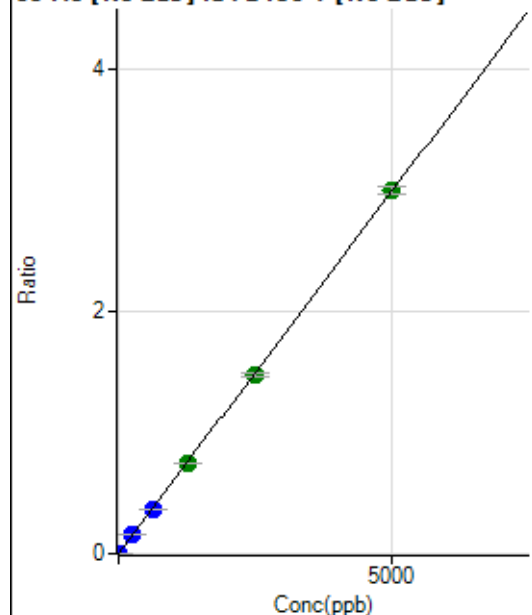
$$DL = 0.02352$$

$$BEC = 0.03044$$

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	11.11	0.0000	P	114.5
2	☐	5.000	4.813	6168.19	0.0029	P	5.3
3	☐	250.000	255.441	346867.63	0.1528	P	0.5
4	☐	625.000	615.918	846143.71	0.3684	P	1.2
5	☐	1250.000	1247.046	1695580.20	0.7460	A	1.7
6	☐	2500.000	2475.599	3432633.35	1.4809	A	2.5
7	☐	5000.000	5013.802	6834115.13	2.9992	A	2.1
8	☐			2072.43	0.0009	P	13.0

$$y = 5.9819\text{E-}004 * x + 5.0162\text{E-}006$$

$$R = 1.0000$$

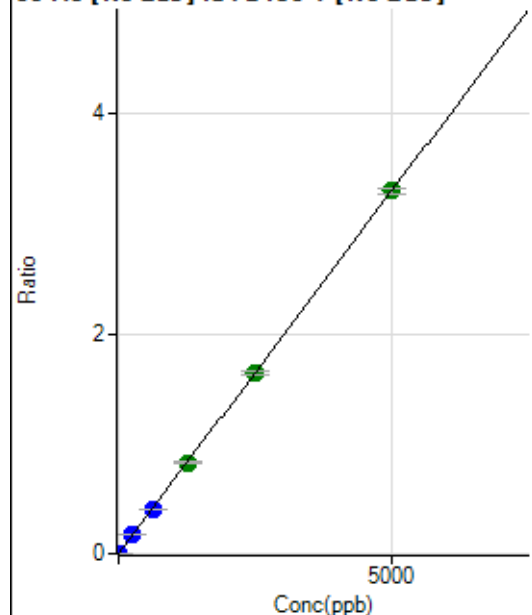
$$DL = 0.0288$$

$$BEC = 0.008386$$

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	44.44	0.0000	P	38.4
2	☐	5.000	5.019	7082.55	0.0033	P	14.6
3	☐	250.000	257.357	384943.25	0.1696	P	1.3
4	☐	625.000	618.346	935665.17	0.4074	P	1.4
5	☐	1250.000	1254.970	1879495.70	0.8269	A	1.7
6	☐	2500.000	2488.521	3800759.03	1.6396	A	2.0
7	☐	5000.000	5004.961	7513682.20	3.2976	A	1.9
8	☐			2725.33	0.0012	P	11.7

$$y = 6.5887\text{E-}004 * x + 1.9944\text{E-}005$$

$$R = 1.0000$$

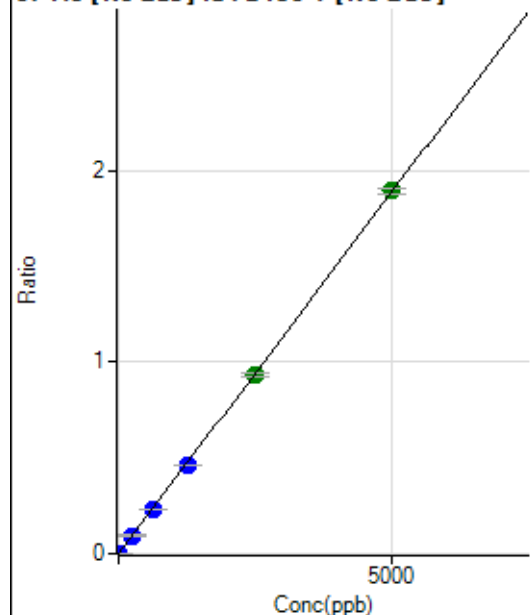
$$DL = 0.0349$$

$$BEC = 0.03027$$

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	8.33	0.0000	P	100.5
2	☐	5.000	4.806	3870.11	0.0018	P	12.6
3	☐	250.000	252.697	216356.46	0.0953	P	0.9
4	☐	625.000	607.341	526065.07	0.2291	P	1.4
5	☐	1250.000	1229.594	1054168.65	0.4638	P	0.9
6	☐	2500.000	2467.859	2157584.29	0.9308	A	2.3
7	☐	5000.000	5023.245	4317128.70	1.8946	A	1.4
8	☐			1172.30	0.0005	P	9.6

$$y = 3.7716E-004 * x + 3.7427E-006$$

$$R = 1.0000$$

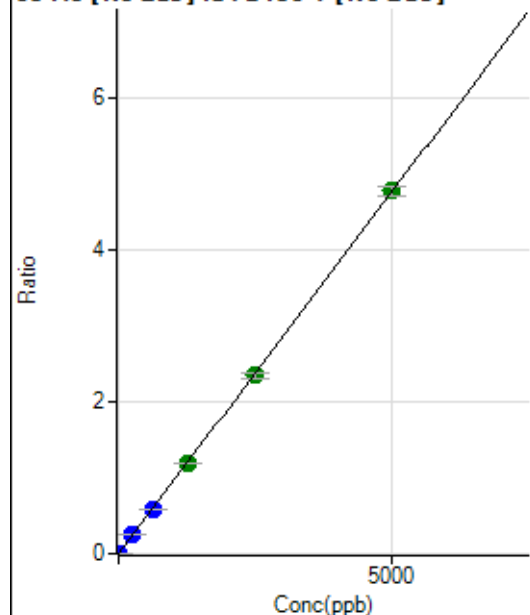
$$DL = 0.02991$$

$$BEC = 0.009923$$

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	0.00	0.0000	P	
2	☐	5.000	4.927	9995.51	0.0047	P	9.0
3	☐	250.000	255.021	550134.68	0.2423	P	0.5
4	☐	625.000	611.641	1334745.36	0.5812	P	2.2
5	☐	1250.000	1242.018	2682943.62	1.1803	A	0.7
6	☐	2500.000	2467.800	5435550.51	2.3452	A	3.3
7	☐	5000.000	5019.514	10867530.36	4.7701	A	2.8
8	☐			3055.98	0.0014	P	13.4

$$y = 9.5030E-004 * x + 0.0000E+000$$

$$R = 1.0000$$

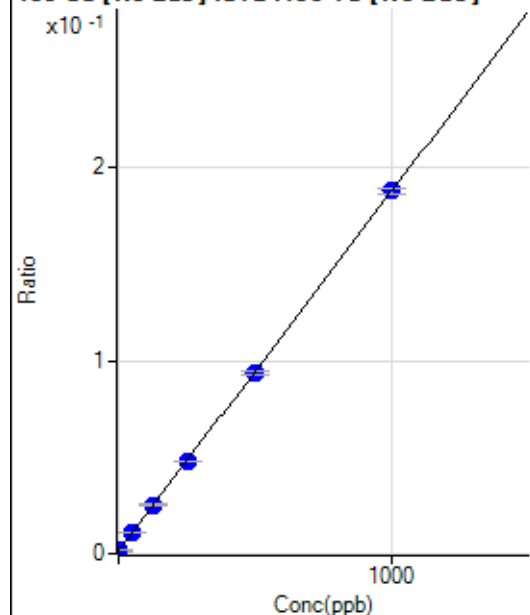
$$DL = 0$$

$$BEC = 0$$

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	488.92	0.0014	P	14.4
2	☐	1.000	1.667	583.36	0.0017	P	12.4
3	☐	50.000	49.500	3817.30	0.0106	P	1.2
4	☐	125.000	128.572	9272.88	0.0253	P	2.8
5	☐	250.000	249.550	17230.66	0.0478	P	0.9
6	☐	500.000	496.447	34969.99	0.0938	P	2.3
7	☐	1000.000	1001.467	69676.55	0.1878	P	1.4
8	☐			563.91	0.0016	P	14.9

$$y = 1.8610E-004 * x + 0.0014$$

$$R = 1.0000$$

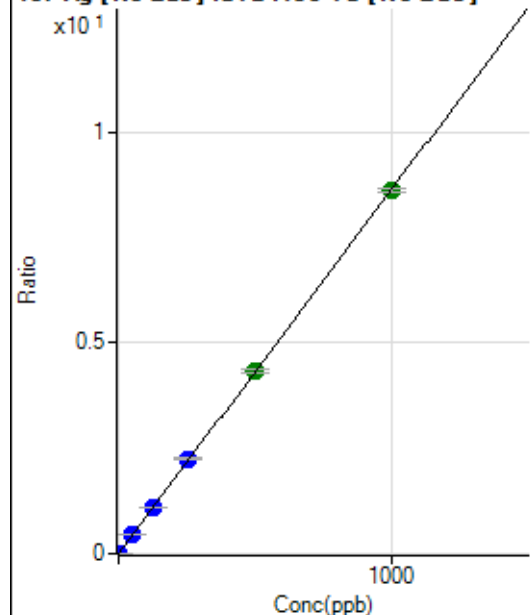
$$DL = 3.258$$

$$BEC = 7.559$$

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	25.00	0.0001	P	58.1
2	☐	1.000	0.972	2855.93	0.0085	P	10.4
3	☐	50.000	53.687	166497.58	0.4632	P	1.4
4	☐	125.000	126.252	398731.39	1.0892	P	0.7
5	☐	250.000	260.248	808259.18	2.2451	P	1.6
6	☐	500.000	501.257	1611929.89	4.3241	A	1.5
7	☐	1000.000	996.469	3189739.53	8.5960	A	1.0
8	☐			1705.71	0.0048	P	2.1

$$y = 0.0086 * x + 7.1991E-005$$

$$R = 0.9999$$

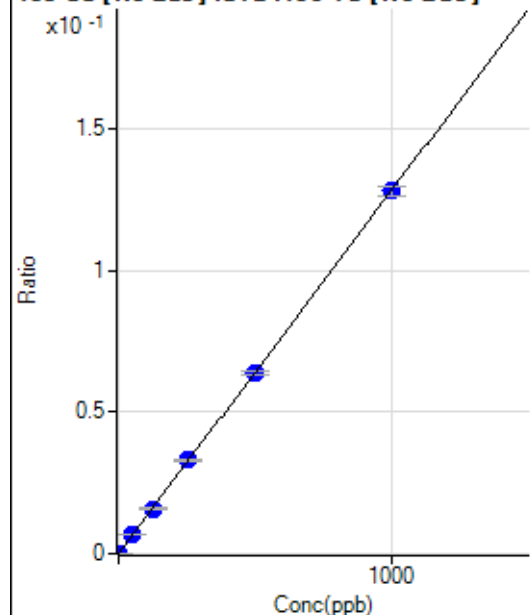
$$DL = 0.01455$$

$$BEC = 0.008345$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	5.55	0.0000	P	86.6
2	☐	1.000	0.990	48.61	0.0001	P	13.1
3	☐	50.000	52.350	2418.30	0.0067	P	4.1
4	☐	125.000	123.390	5797.12	0.0158	P	1.8
5	☐	250.000	257.079	11870.47	0.0330	P	2.8
6	☐	500.000	497.923	23806.80	0.0639	P	1.8
7	☐	1000.000	999.353	47542.81	0.1281	P	2.9
8	☐			38.89	0.0001	P	15.1

$$y = 1.2822\text{E-}004 * x + 1.6061\text{E-}005$$

$$R = 1.0000$$

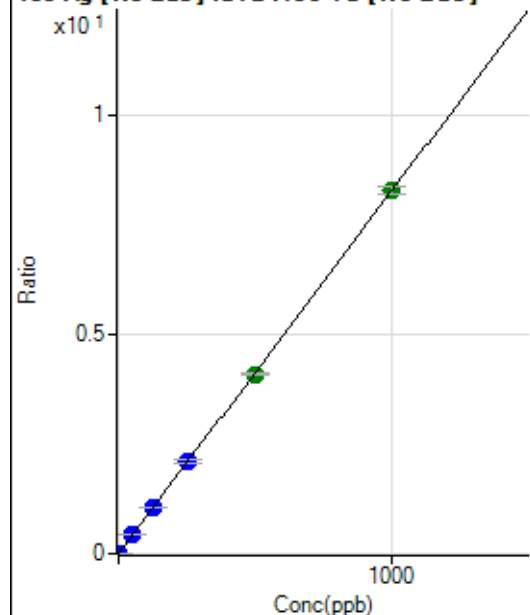
$$DL = 0.3255$$

$$BEC = 0.1253$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	16.67	0.0000	P	1.0
2	☐	1.000	0.925	2597.55	0.0077	P	7.7
3	☐	50.000	52.324	155255.81	0.4320	P	2.5
4	☐	125.000	126.468	382174.21	1.0440	P	1.4
5	☐	250.000	255.000	757724.22	2.1050	P	2.4
6	☐	500.000	495.015	1523331.11	4.0862	A	1.4
7	☐	1000.000	1000.943	3065558.99	8.2624	A	2.1
8	☐			1614.03	0.0045	P	7.7

$$y = 0.0083 * x + 4.7934\text{E-}005$$

$$R = 1.0000$$

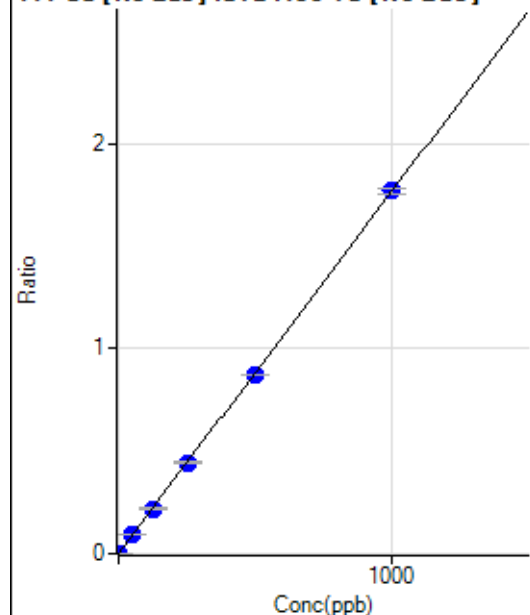
$$DL = 0.0001783$$

$$BEC = 0.005807$$

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	343.91	0.0010	P	12.2
2	☐	1.000	1.146	1017.40	0.0030	P	7.8
3	☐	50.000	51.899	33211.49	0.0924	P	1.4
4	☐	125.000	124.137	80394.87	0.2196	P	2.0
5	☐	250.000	251.917	160104.84	0.4447	P	0.9
6	☐	500.000	492.970	324044.66	0.8692	P	0.4
7	☐	1000.000	1003.048	655881.76	1.7676	P	1.3
8	☐			636.97	0.0018	P	3.7

$$y = 0.0018 * x + 9.8945E-004$$

$$R = 1.0000$$

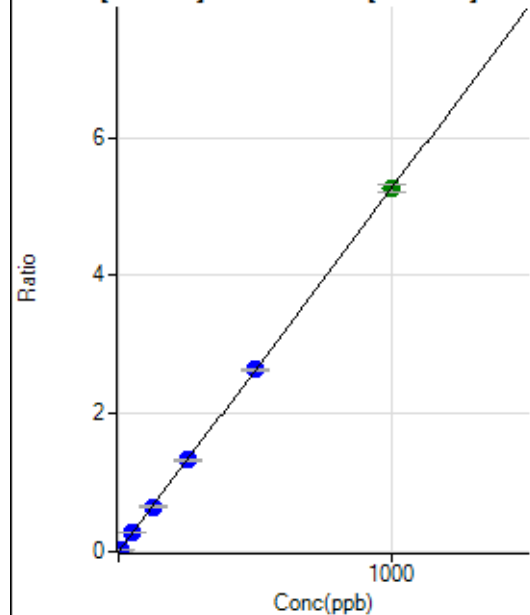
$$DL = 0.2064$$

$$BEC = 0.5618$$

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	175.01	0.0005	P	5.7
2	☐	5.000	4.770	8633.52	0.0256	P	10.9
3	☐	50.000	52.201	98917.94	0.2752	P	2.2
4	☐	125.000	123.882	238812.88	0.6524	P	1.2
5	☐	250.000	252.084	477699.51	1.3270	P	2.4
6	☐	500.000	500.540	982064.43	2.6344	P	0.8
7	☐	1000.000	999.240	1951144.01	5.2585	A	2.1
8	☐			422.24	0.0012	P	14.7

$$y = 0.0053 * x + 5.0338E-004$$

$$R = 1.0000$$

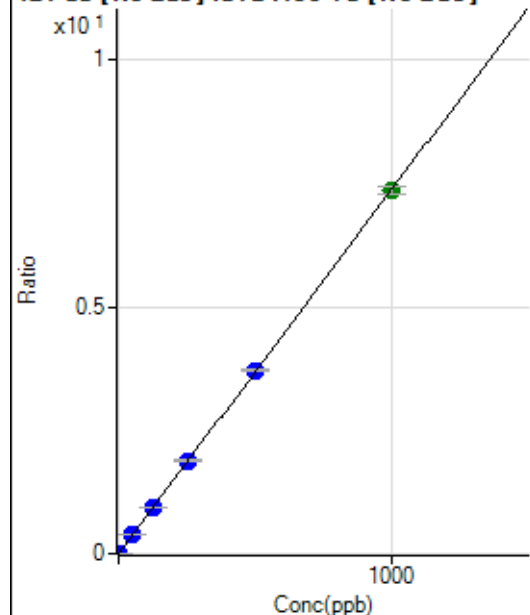
$$DL = 0.01643$$

$$BEC = 0.09566$$

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	5.56	0.0000	P	173.2
2	☐	2.000	1.981	4937.12	0.0146	P	7.9
3	☐	50.000	51.829	137305.27	0.3820	P	1.3
4	☐	125.000	125.111	337557.94	0.9221	P	0.7
5	☐	250.000	255.398	677646.74	1.8823	P	1.3
6	☐	500.000	503.177	1382438.25	3.7084	P	0.8
7	☐	1000.000	996.956	2726293.14	7.3475	A	2.3
8	☐			1683.48	0.0047	P	11.5

$$y = 0.0074 * x + 1.5792E-005$$

$$R = 1.0000$$

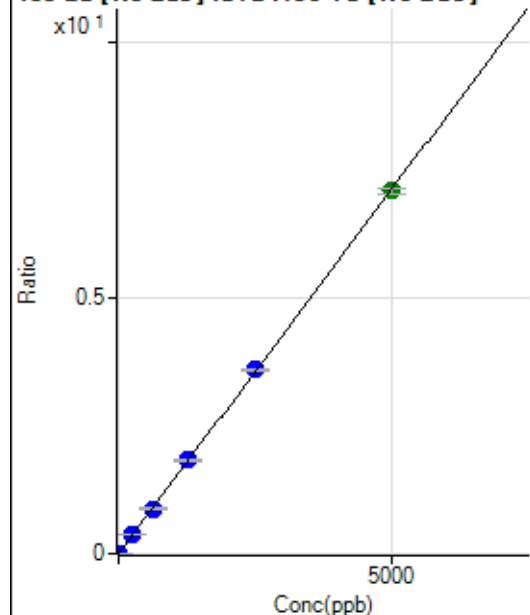
$$DL = 0.01113$$

$$BEC = 0.002143$$

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	22.22	0.0001	P	78.3
2	☐	10.000	9.577	4617.62	0.0137	P	13.1
3	☐	250.000	264.505	135526.95	0.3770	P	0.7
4	☐	625.000	620.415	323697.74	0.8842	P	1.2
5	☐	1250.000	1281.270	657362.79	1.8260	P	1.8
6	☐	2500.000	2521.445	1339575.83	3.5934	P	1.5
7	☐	5000.000	4981.309	2634069.07	7.0990	A	1.6
8	☐			4878.80	0.0137	P	8.4

$$y = 0.0014 * x + 6.4091E-005$$

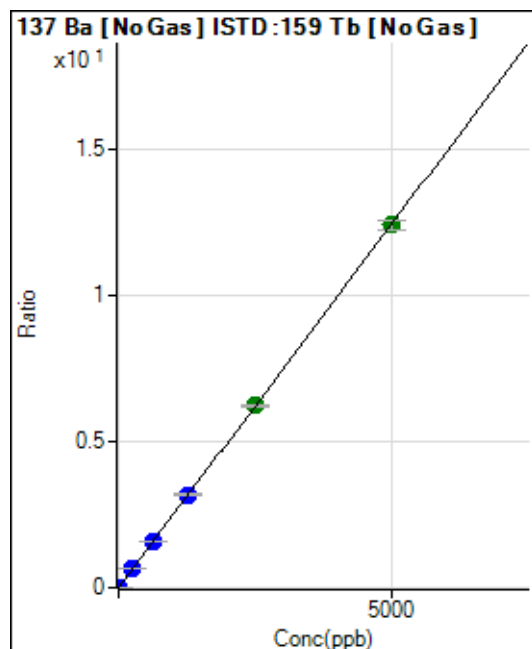
$$R = 1.0000$$

$$DL = 0.1057$$

$$BEC = 0.04497$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	22.22	0.0001	P	22.5
2	☐	10.000	9.777	8227.74	0.0244	P	10.6
3	☐	250.000	261.469	233568.26	0.6498	P	0.9
4	☐	625.000	625.168	568749.65	1.5535	P	0.4
5	☐	1250.000	1276.978	1142258.67	3.1732	P	2.5
6	☐	2500.000	2501.807	2317453.09	6.2168	A	1.6
7	☐	5000.000	4991.758	4602107.22	12.4041	A	2.5
8	☐			8388.93	0.0235	P	1.6

$$y = 0.0025 * x + 6.3996E-005$$

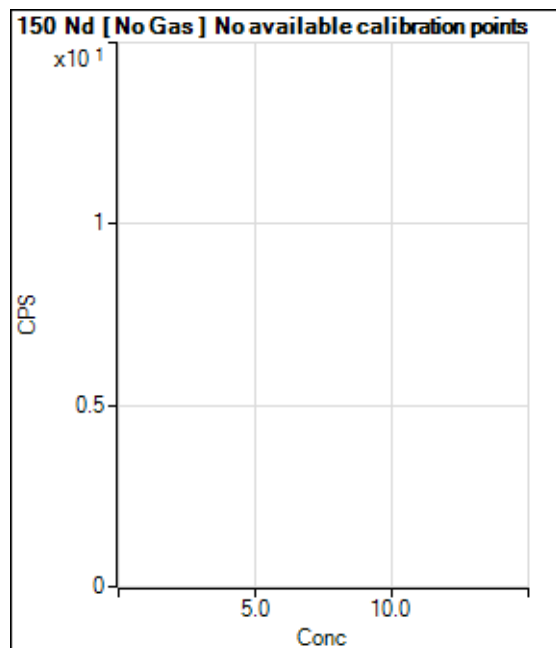
$$R = 1.0000$$

$$DL = 0.01738$$

$$BEC = 0.02575$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			11.11		P	34.6
2	☐			2.22		P	173.2
3	☐			11.11		P	34.6
4	☐			26.67		P	50.0
5	☐			26.67		P	50.0
6	☐			57.78		P	56.9
7	☐			80.00		P	60.1
8	☐			8.89		P	114.5

150 Nd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			0.00		P	
2	☐			0.00		P	
3	☐			2.22		P	86.6
4	☐			1.11		P	173.2
5	☐			2.22		P	173.2
6	☐			6.67		P	86.6
7	☐			4.44		P	43.4
8	☐			2.22		P	86.6

156 Dy [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			5.55		P	86.6
2	☐			5.56		P	173.2
3	☐			11.11		P	43.3
4	☐			16.67		P	86.6
5	☐			30.56		P	31.5
6	☐			36.11		P	26.7
7	☐			80.56		P	31.6
8	☐			155.56		P	6.2

156 Dy [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			0.00		P	
2	☐			0.00		P	
3	☐			0.00		P	
4	☐			0.00		P	
5	☐			5.55		P	124.9
6	☐			12.22		P	15.7
7	☐			22.22		P	8.7
8	☐			94.45		P	13.4

160 Gd [No Gas] Noavailable calibration poin_

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			8.33		P	173.2
2	☐			8.33		P	0.0
3	☐			19.44		P	89.2
4	☐			11.11		P	114.6
5	☐			11.11		P	43.3
6	☐			22.22		P	94.4
7	☐			38.89		P	75.3
8	☐			163.89		P	10.6

160 Gd [He] No available calibration points

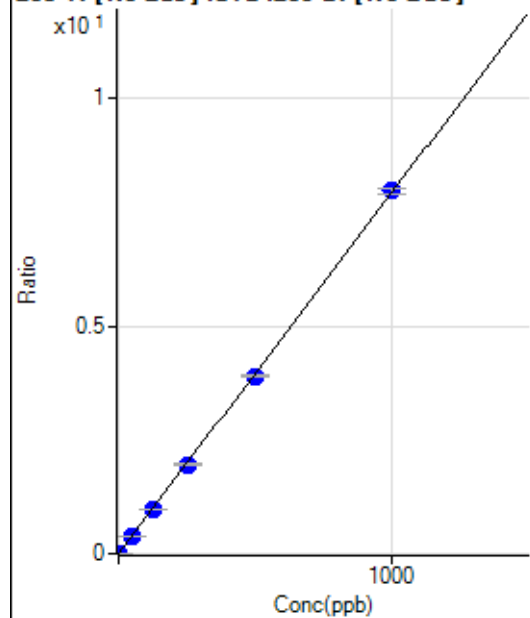
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			3.33		P	100.1
2	☐			0.00		P	
3	☐			1.11		P	173.2
4	☐			7.78		P	89.2
5	☐			10.00		P	57.7
6	☐			6.67		P	100.0
7	☐			14.45		P	48.0
8	☐			97.78		P	2.0

164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			2.78		P	173.2
2	☐			8.33		P	100.0
3	☐			0.00		P	
4	☐			5.55		P	86.6
5	☐			8.33		P	100.0
6	☐			25.00		P	120.2
7	☐			8.33		P	100.0
8	☐			22.22		P	43.3

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			0.00		P	
2	☐			3.33		P	100.1
3	☐			0.00		P	
4	☐			2.22		P	86.6
5	☐			1.11		P	173.2
6	☐			2.22		P	86.6
7	☐			4.45		P	86.6
8	☐			6.67		P	50.0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	33.34	0.0002	P	43.7
2	☐	1.000	0.929	1283.44	0.0075	P	5.5
3	☐	50.000	49.792	71865.83	0.3945	P	0.5
4	☐	125.000	120.960	176942.87	0.9581	P	1.3
5	☐	250.000	247.482	357977.61	1.9600	P	0.7
6	☐	500.000	491.619	735161.88	3.8934	P	1.6
7	☐	1000.000	1005.336	1478204.48	7.9616	P	1.9
8	☐			1025.07	0.0059	P	14.6

$$y = 0.0079 * x + 1.8986E-004$$

$$R = 0.9999$$

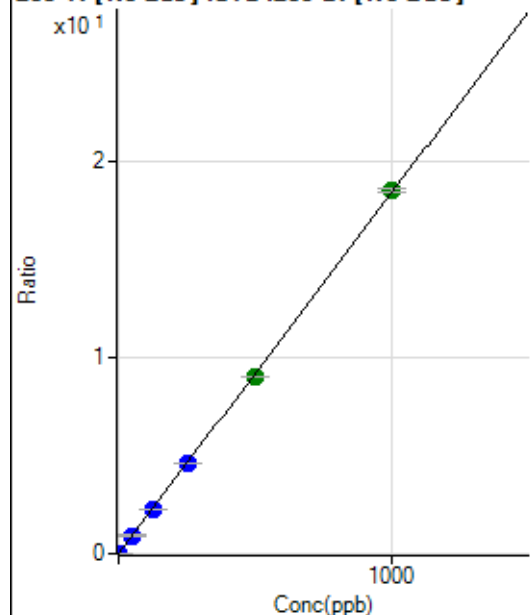
$$DL = 0.03142$$

$$BEC = 0.02397$$

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	41.67	0.0002	P	35.2
2	☐	1.000	0.978	3097.67	0.0182	P	7.9
3	☐	50.000	50.489	169368.31	0.9297	P	0.6
4	☐	125.000	122.201	415528.74	2.2500	P	0.5
5	☐	250.000	250.004	840697.83	4.6028	P	0.8
6	☐	500.000	490.332	1704661.19	9.0273	A	0.5
7	☐	1000.000	1005.158	3436028.25	18.5053	A	1.2
8	☐			2441.96	0.0141	P	8.9

$$y = 0.0184 * x + 2.3716E-004$$

$$R = 0.9999$$

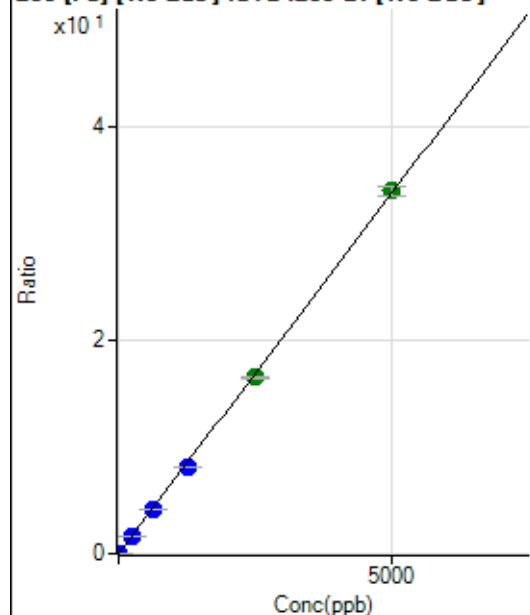
$$DL = 0.01362$$

$$BEC = 0.01288$$

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	216.67	0.0012	P	15.6
2	☐	1.000	0.939	1283.43	0.0076	P	9.5
3	☐	250.000	247.390	304321.12	1.6706	P	1.0
4	☐	625.000	600.950	749148.73	4.0564	P	0.1
5	☐	1250.000	1207.008	1487806.78	8.1461	P	0.4
6	☐	2500.000	2454.061	3127269.51	16.5611	A	1.2
7	☐	5000.000	5036.854	6310338.97	33.9897	A	2.8
8	☐			1296.38	0.0075	P	15.8

$$y = 0.0067 * x + 0.0012$$

$$R = 0.9999$$

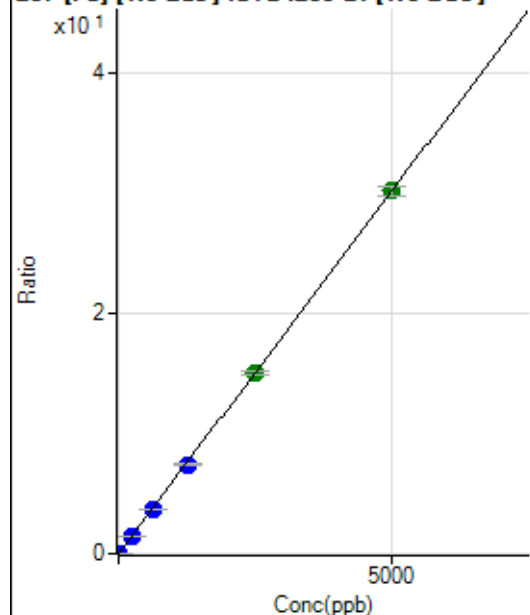
$$DL = 0.08535$$

$$BEC = 0.1825$$

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	198.15	0.0011	P	8.2
2	☐	1.000	0.880	1094.51	0.0064	P	7.7
3	☐	250.000	249.418	274467.50	1.5067	P	0.9
4	☐	625.000	602.677	672081.97	3.6391	P	1.4
5	☐	1250.000	1225.859	1351616.57	7.4009	P	1.4
6	☐	2500.000	2500.989	2850755.42	15.0981	A	2.3
7	☐	5000.000	5008.361	5613261.99	30.2335	A	2.5
8	☐			1033.39	0.0060	P	13.5

$$y = 0.0060 * x + 0.0011$$

$$R = 1.0000$$

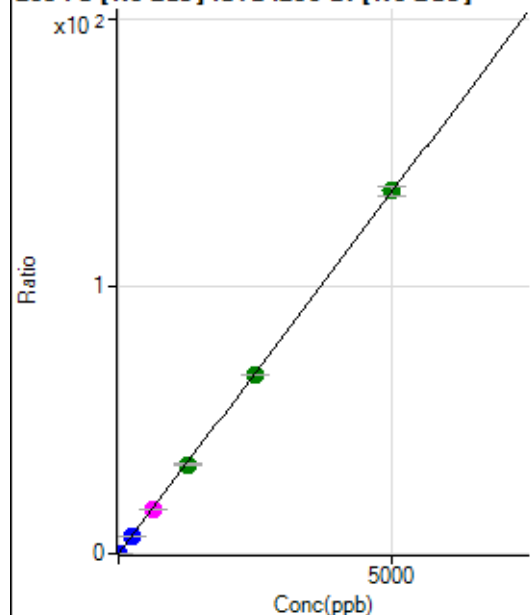
$$DL = 0.04605$$

$$BEC = 0.1866$$

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	785.21	0.0045	P	0.7
2	☐	1.000	0.911	4939.35	0.0291	P	7.5
3	☐	250.000	249.583	1229793.47	6.7508	P	0.4
4	☐	625.000	605.676	3024437.20	16.3761	M	1.5
5	☐	1250.000	1233.295	6089071.30	33.3408	A	1.5
6	☐	2500.000	2473.656	12626629.19	66.8681	A	0.9
7	☐	5000.000	5019.785	25192645.59	135.6908	A	2.6
8	☐			4893.04	0.0282	P	10.3

$$y = 0.0270 * x + 0.0045$$

$$R = 1.0000$$

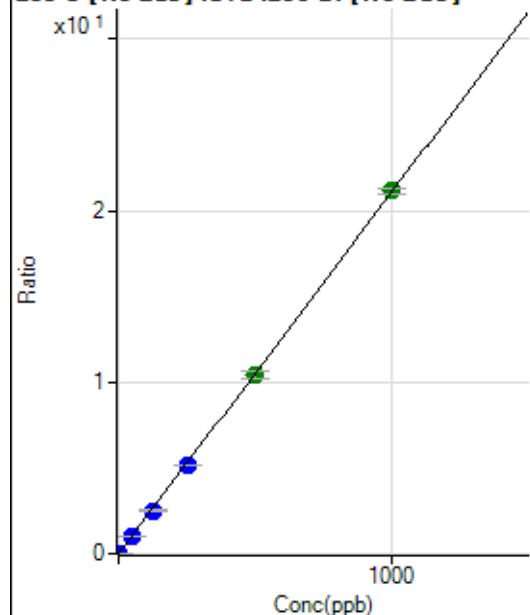
$$DL = 0.003534$$

$$BEC = 0.1651$$

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	5.56	0.0000	P	173.2
2	☐	1.000	0.922	3289.42	0.0194	P	13.3
3	☐	50.000	49.150	188491.84	1.0347	P	2.4
4	☐	125.000	119.818	465816.23	2.5223	P	0.8
5	☐	250.000	243.025	934401.93	5.1160	P	0.5
6	☐	500.000	495.093	1967758.66	10.4223	A	3.7
7	☐	1000.000	1004.888	3927727.65	21.1540	A	1.5
8	☐			394.46	0.0023	P	12.6

$$y = 0.0211 * x + 3.1362E-005$$

$$R = 0.9999$$

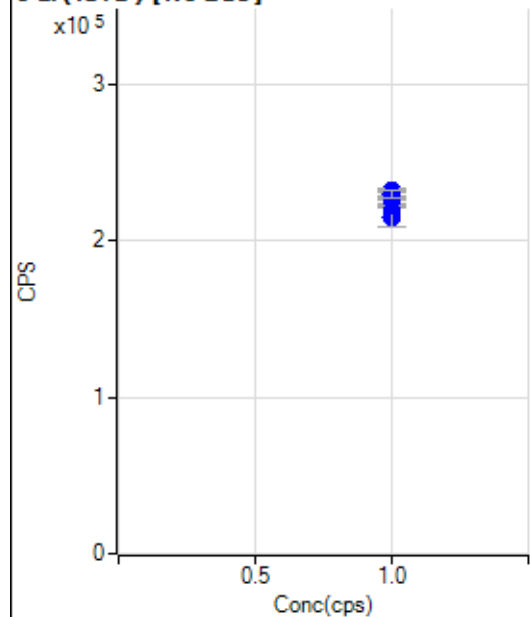
$$DL = 0.007741$$

$$BEC = 0.00149$$

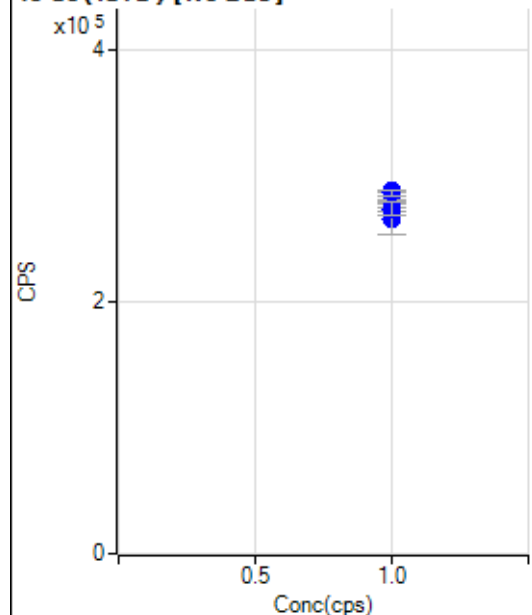
Weight: <None>

Min Conc: 0

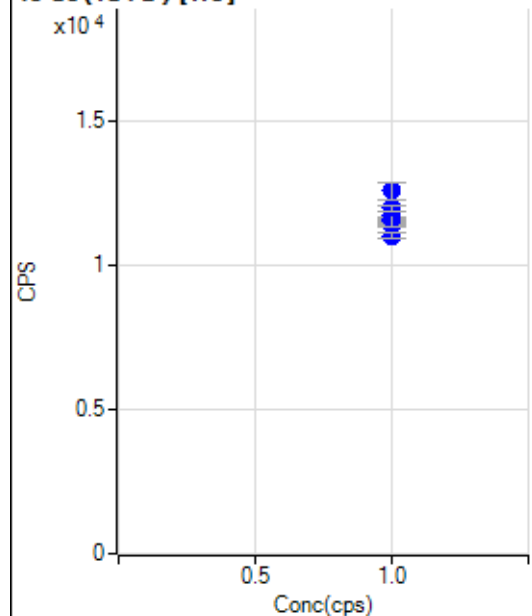
6 Li (ISTD) [No Gas]



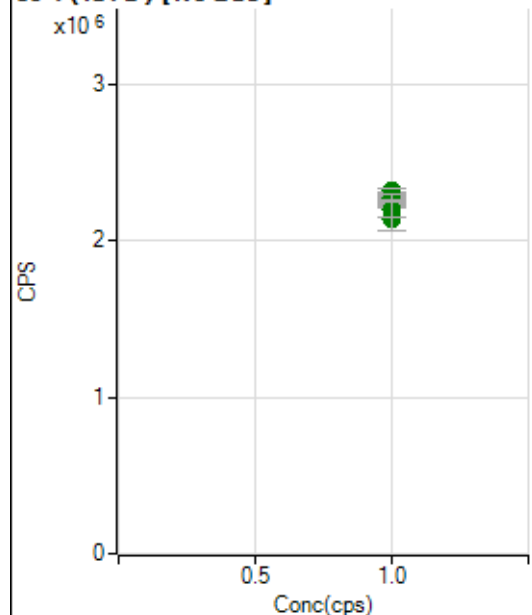
	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		221734.80		P	0.6
2	☐	1.000		215630.40		P	5.8
3	☐	1.000		222991.48		P	0.7
4	☐	1.000		226552.72		P	0.5
5	☐	1.000		227842.65		P	0.4
6	☐	1.000		232052.28		P	0.5
7	☐	1.000		232156.04		P	1.2
8	☐	1.000		230684.73		P	2.1

45 Sc (ISTD) [No Gas]

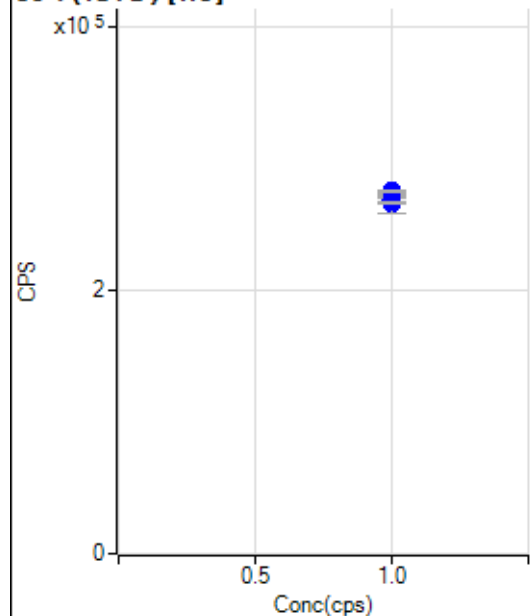
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		273649.42		P	0.6
2	☐	1.000		265647.06		P	9.4
3	☐	1.000		280096.28		P	0.6
4	☐	1.000		284193.12		P	0.3
5	☐	1.000		281375.95		P	0.3
6	☐	1.000		288456.89		P	0.4
7	☐	1.000		286697.41		P	1.2
8	☐	1.000		273908.84		P	3.8

45 Sc (ISTD) [He]

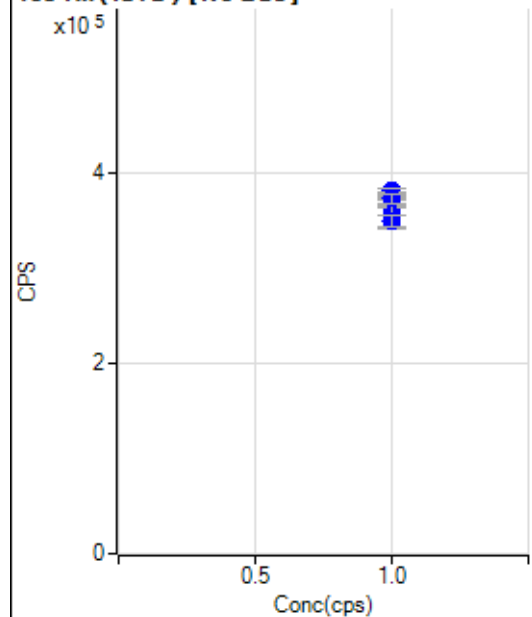
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		11474.68		P	0.6
2	☐	1.000		11425.75		P	1.8
3	☐	1.000		11520.27		P	1.5
4	☐	1.000		11762.70		P	1.6
5	☐	1.000		11598.10		P	4.8
6	☐	1.000		11995.10		P	1.5
7	☐	1.000		12590.04		P	4.5
8	☐	1.000		11031.00		P	1.7

89 Y (ISTD) [No Gas]

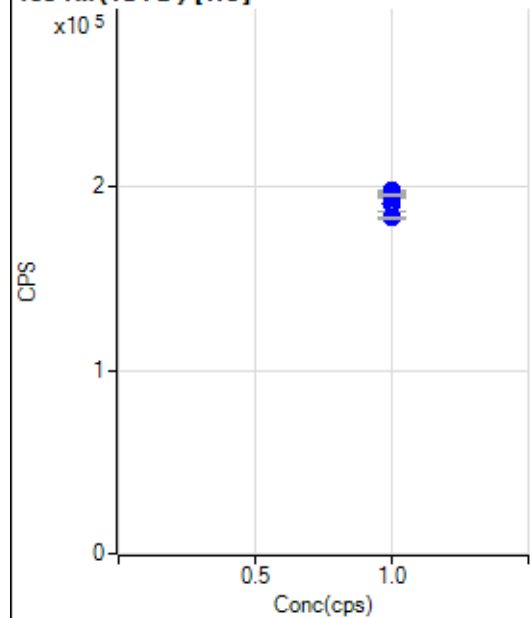
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		2224314.53		A	0.9
2	☐	1.000		2144110.73		A	7.4
3	☐	1.000		2270009.60		A	0.5
4	☐	1.000		2296806.10		A	1.3
5	☐	1.000		2273149.65		A	0.6
6	☐	1.000		2318494.67		A	1.4
7	☐	1.000		2279021.32		A	1.8
8	☐	1.000		2199835.94		A	4.1

89 Y (ISTD) [He]

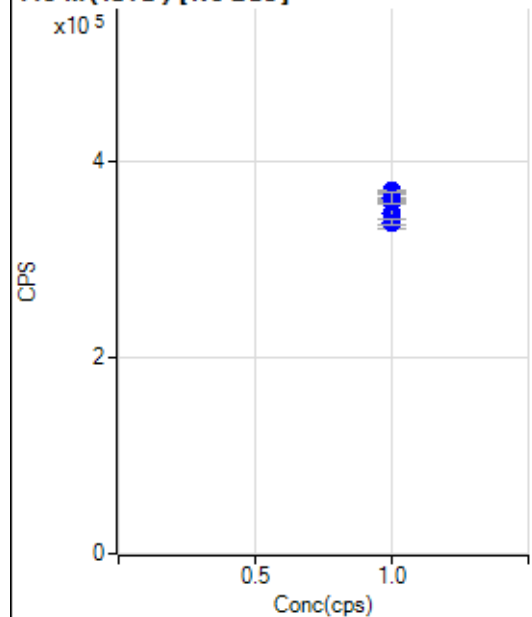
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		272171.82		P	1.8
2	☐	1.000		268583.78		P	0.6
3	☐	1.000		272750.49		P	0.3
4	☐	1.000		275419.06		P	0.4
5	☐	1.000		265888.67		P	5.2
6	☐	1.000		273848.77		P	1.4
7	☐	1.000		275159.55		P	0.8
8	☐	1.000		266630.60		P	0.2

103 Rh (ISTD) [No Gas]

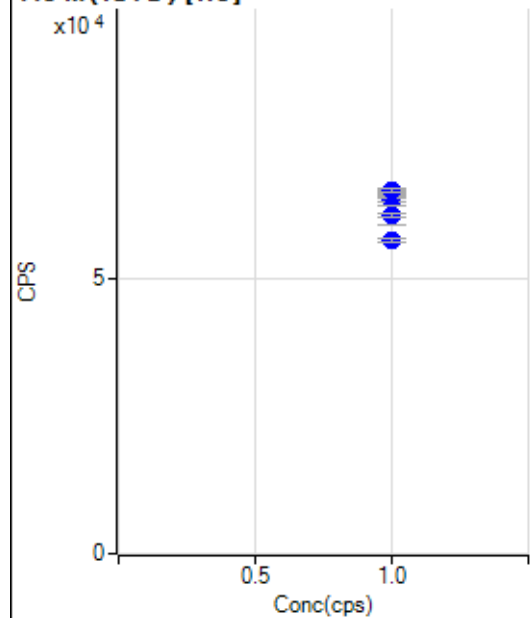
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		365404.65		P	0.4
2	☐	1.000		355564.09		P	7.6
3	☐	1.000		376486.30		P	0.5
4	☐	1.000		380678.49		P	0.5
5	☐	1.000		373735.35		P	0.6
6	☐	1.000		381965.27		P	1.2
7	☐	1.000		373786.62		P	2.7
8	☐	1.000		350199.42		P	3.5

103 Rh (ISTD) [He]

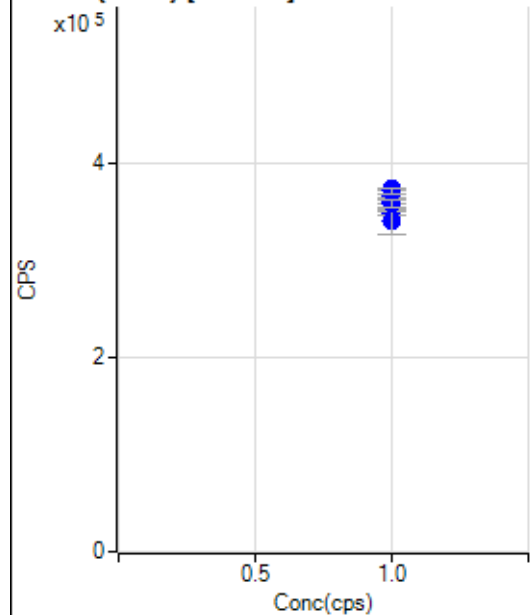
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		194840.72		P	1.1
2	☐	1.000		194980.56		P	1.1
3	☐	1.000		197937.99		P	0.3
4	☐	1.000		196938.46		P	0.3
5	☐	1.000		191012.02		P	4.5
6	☐	1.000		194241.17		P	0.5
7	☐	1.000		195787.08		P	0.8
8	☐	1.000		183213.41		P	0.9

115 In (ISTD) [No Gas]

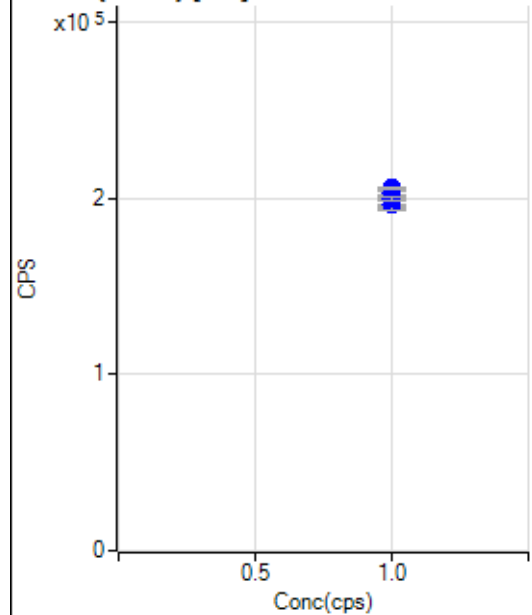
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		359559.73		P	0.3
2	☐	1.000		347194.07		P	8.8
3	☐	1.000		367366.16		P	0.2
4	☐	1.000		370433.15		P	0.2
5	☐	1.000		360542.58		P	0.5
6	☐	1.000		359706.32		P	0.5
7	☐	1.000		338178.39		P	1.7
8	☐	1.000		364109.17		P	3.2

115 In (ISTD) [He]

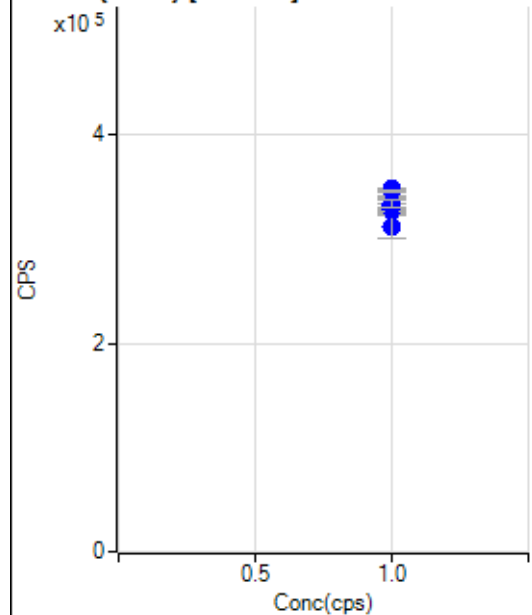
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		65395.25		P	2.0
2	☐	1.000		64405.91		P	1.1
3	☐	1.000		65702.61		P	0.5
4	☐	1.000		64985.36		P	0.5
5	☐	1.000		61580.66		P	5.4
6	☐	1.000		61702.83		P	1.1
7	☐	1.000		56926.67		P	1.2
8	☐	1.000		66062.78		P	0.9

159 Tb (ISTD) [No Gas]

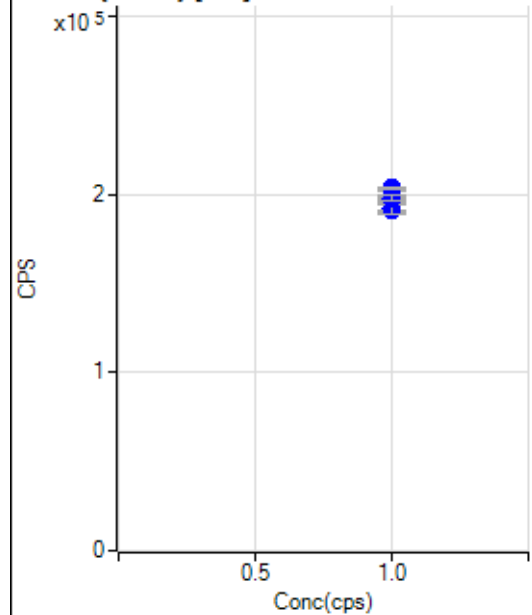
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		347792.53		P	1.0
2	☐	1.000		338946.14		P	7.6
3	☐	1.000		359473.46		P	0.9
4	☐	1.000		366104.79		P	1.2
5	☐	1.000		360070.96		P	1.8
6	☐	1.000		372795.68		P	0.6
7	☐	1.000		371102.90		P	1.5
8	☐	1.000		357333.93		P	2.1

159 Tb (ISTD) [He]

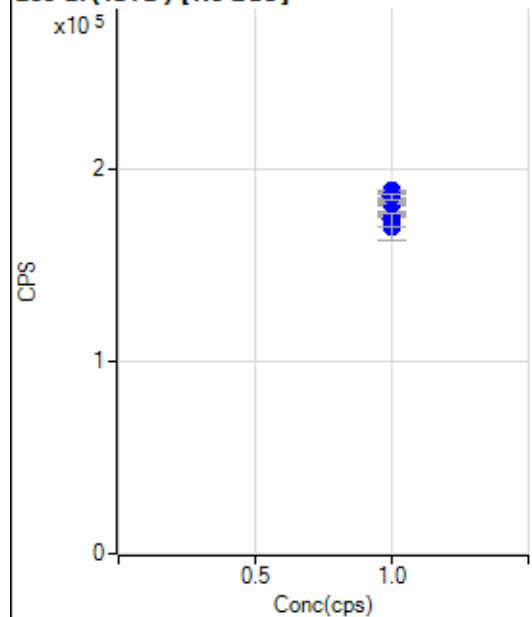
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		196549.68		P	2.7
2	☐	1.000		195835.04		P	0.2
3	☐	1.000		201328.99		P	0.4
4	☐	1.000		202436.61		P	1.0
5	☐	1.000		196776.13		P	4.3
6	☐	1.000		204623.24		P	0.8
7	☐	1.000		205702.65		P	0.3
8	☐	1.000		200038.85		P	1.1

165 Ho (ISTD) [No Gas]

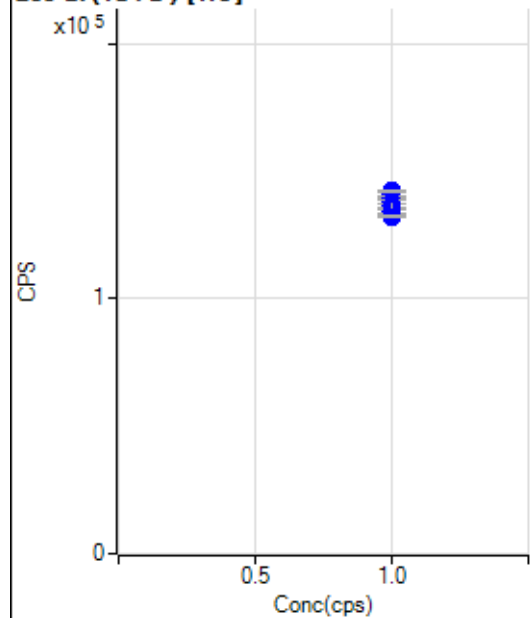
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		325720.45		P	1.8
2	☐	1.000		312610.48		P	7.6
3	☐	1.000		328445.83		P	1.1
4	☐	1.000		340269.06		P	0.8
5	☐	1.000		332472.62		P	1.0
6	☐	1.000		348096.34		P	0.4
7	☐	1.000		346623.86		P	0.6
8	☐	1.000		333317.70		P	2.4

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		192271.97		P	2.4
2	☐	1.000		190680.43		P	0.5
3	☐	1.000		197019.01		P	1.7
4	☐	1.000		198470.42		P	0.5
5	☐	1.000		191707.96		P	3.1
6	☐	1.000		201935.30		P	0.4
7	☐	1.000		203766.40		P	0.3
8	☐	1.000		197759.87		P	1.6

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		175907.92		P	0.7
2	☐	1.000		170536.52		P	8.7
3	☐	1.000		182174.77		P	1.1
4	☐	1.000		184682.93		P	0.7
5	☐	1.000		182646.15		P	1.0
6	☐	1.000		188837.14		P	0.7
7	☐	1.000		185693.10		P	1.1
8	☐	1.000		173660.70		P	3.7

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		134086.23		P	2.3
2	☐	1.000		135362.18		P	0.6
3	☐	1.000		138223.36		P	1.3
4	☐	1.000		139492.32		P	0.7
5	☐	1.000		136077.26		P	3.9
6	☐	1.000		141246.83		P	1.5
7	☐	1.000		142132.16		P	0.2
8	☐	1.000		131995.86		P	0.7

US EPA Tune Check Report

Operator Name Jaswal
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\P8092220MS.b
Acq. Date-Time 2020-09-22 09:35:13
Report Comment ---
Instrument Name G8403A SG19224459

[No Gas]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
9		3038	30379.17			1.133	5.000
24		48106	481063.60			0.862	5.000
25		6358	63581.54			1.227	5.000
26		7361	73614.35			1.168	5.000
59		17592	175922.39			0.668	5.000
113		2270	22702.64			1.061	5.000
115		6501	65010.22			0.770	5.000
206		2010	20095.32			1.543	5.000
207		1670	16698.54			1.414	5.000
208		4133	41325.93			0.936	5.000
220		1	12.00			17.922	

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

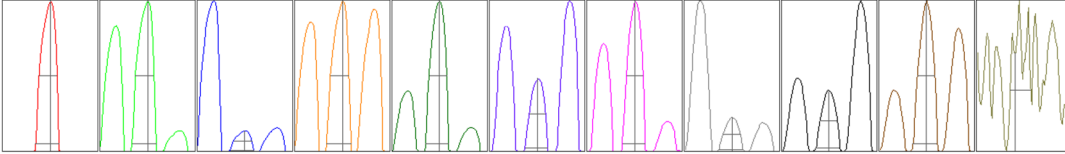
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	3079	3022	3032	2992	3064
24	48066	47891	48416	47558	48600
25	6395	6307	6441	6249	6399
26	7433	7287	7391	7254	7442
59	17473	17510	17624	17579	17775
113	2264	2253	2274	2251	2310
115	6493	6453	6522	6461	6576
206	1989	1989	1985	2033	2053
207	1637	1657	1672	1693	1691
208	4103	4099	4157	4116	4188

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	5720.52	9.05	8.90 - 9.10	
24	87971.47	24.05	23.90 - 24.10	
25	11522.50	25.00	24.90 - 25.10	
26	13408.75	26.05	25.90 - 26.10	
59	33285.92	59.00	58.90 - 59.10	
113	4547.80	113.05	112.90 - 113.10	
115	13120.59	115.05	114.90 - 115.10	
206	3869.22	206.05	205.90 - 206.10	
207	3222.71	207.00	206.90 - 207.10	
208	7995.35	208.00	207.90 - 208.10	
220	1.20	219.75	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.56	0.732	0.900	
24	0.58	0.771	0.900	
25	0.58	0.743	0.900	
26	0.58	0.780	0.900	
59	0.55	0.733	0.900	
113	0.51	0.700	0.900	
115	0.52	0.717	0.900	
206	0.54	0.760	0.900	
207	0.54	0.761	0.900	
208	0.54	0.773	0.900	
220	0.66			

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	9.4 V	Deflect	14.0 V
Extract 2	-240.0 V	Cell Entrance	-30 V	Plate Bias	-50 V
Omega Bias	-115 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	150 V		

QP Parameters

Mass Gain	122	Axis Gain	0.9993	QP Bias	-4.0 V
Mass Offset	125	Axis Offset	-0.01		

Hardware Settings

Torch

Torch H	0.9 mm	Torch V	-0.4 mm
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EM

Discriminator	4.0 mV	Analog HV	2181 V	Pulse HV	1312 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		4055	40546.88			3.788	
89		2320	23195.78			4.254	
205		6975	69748.07			2.852	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	3796	4088	4070	4113	4206
89	2155	2348	2332	2342	2421
205	6627	7056	7011	7051	7129

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	9.4 V	Deflect	5.0 V
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US EPA Tune Check Report

Extract 2	-240.0 V	Cell Entrance	-50 V	Plate Bias	-60 V
Omega Bias	-115 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	0.9993	QP Bias	-13.0 V
Mass Offset	125	Axis Offset	-0.01		
Hardware Settings					
Torch					
Torch H	0.9 mm	Torch V	-0.4 mm		
EM					
Discriminator	4.0 mV	Analog HV	2181 V	Pulse HV	1312 V