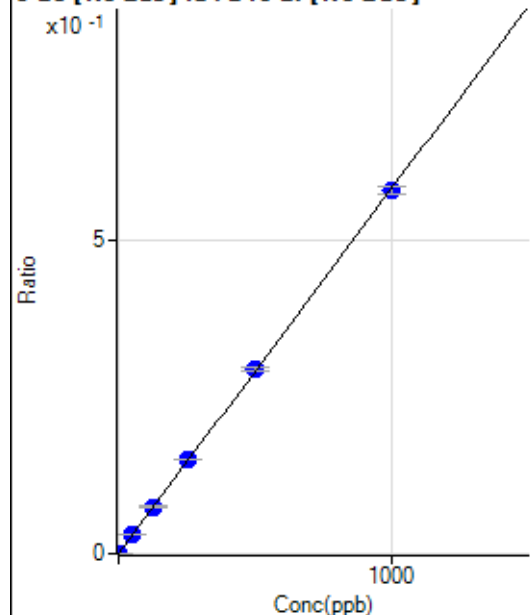


Batch Folder: D:\Agilent\ICPMH\1\DATA\P8120920ICP.b\
Analysis File: P8120920ICP.batch.bin
DA Date-Time: 2020-12-10 01:14:22
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	003CALB.d	S00	2020-12-09 11:30:41
2	004CALS.d	S02	2020-12-09 11:33:53
3	005CALS.d	S03	2020-12-09 11:37:03
4	006CALS.d	S04	2020-12-09 11:40:14
5	007CALS.d	S05	2020-12-09 11:43:18
6	008CALS.d	S06	2020-12-09 11:46:18
7	009CALS.d	S07	2020-12-09 11:49:16
8	010CALS.d	S08	2020-12-09 11:52:17

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	77.32	0.0001	P	18.7
2	☐	1.000	0.935	775.20	0.0006	P	5.1
3	☐	50.000	51.650	38073.95	0.0301	P	1.6
4	☐	125.000	128.274	95315.24	0.0747	P	2.0
5	☐	250.000	258.423	191845.56	0.1505	P	1.8
6	☐	500.000	506.720	381142.94	0.2951	P	1.6
7	☐	1000.000	994.043	764463.23	0.5788	P	2.3
8	☐			549.91	0.0004	P	8.2

$$y = 5.8216E-004 * x + 6.1765E-005$$

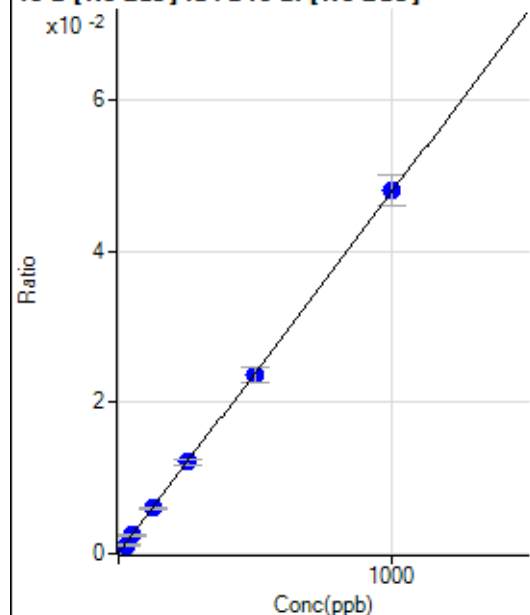
$$R = 0.9999$$

$$DL = 0.05944$$

$$BEC = 0.1061$$

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	90.65	0.0001	P	20.7
2	☐	25.000	22.232	1448.46	0.0011	P	10.9
3	☐	50.000	49.623	3079.06	0.0024	P	10.1
4	☐	125.000	123.666	7619.15	0.0060	P	5.0
5	☐	250.000	252.289	15435.07	0.0121	P	7.7
6	☐	500.000	492.458	30426.04	0.0236	P	8.3
7	☐	1000.000	1003.454	63245.84	0.0479	P	8.4
8	☐			8837.59	0.0067	P	10.4

$$y = 4.7687E-005 * x + 7.2475E-005$$

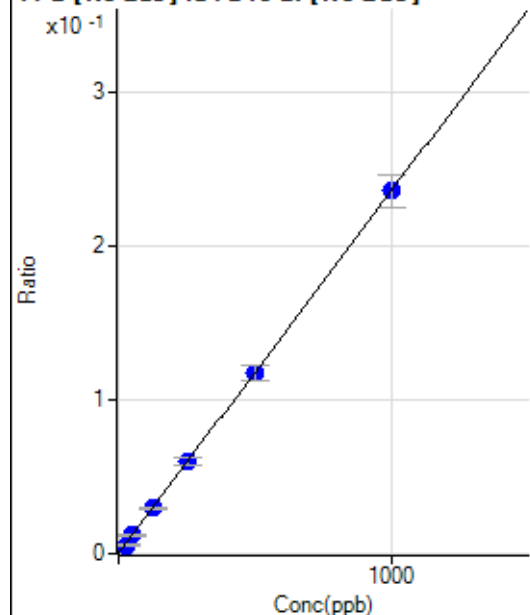
$$R = 1.0000$$

$$DL = 0.9458$$

$$BEC = 1.52$$

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	353.27	0.0003	P	6.7
2	☐	25.000	21.888	6967.63	0.0054	P	8.5
3	☐	50.000	50.685	15467.10	0.0122	P	7.2
4	☐	125.000	125.149	38057.53	0.0298	P	5.2
5	☐	250.000	253.531	76658.23	0.0601	P	7.3
6	☐	500.000	499.291	152560.70	0.1181	P	8.7
7	☐	1000.000	999.497	311661.69	0.2362	P	8.7
8	☐			43360.53	0.0329	P	10.2

$$y = 2.3600\text{E-}004 * x + 2.8339\text{E-}004$$

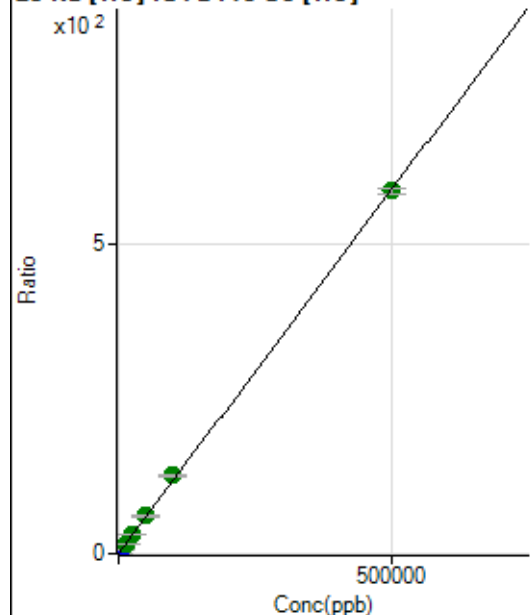
$$R = 1.0000$$

$$DL = 0.2419$$

$$BEC = 1.201$$

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	27409.55	0.2813	P	1.1
2	☐	500.000	515.453	85508.69	0.8865	P	1.0
3	☐	5000.000	5446.226	640800.61	6.6751	P	2.4
4	☐	12500.000	12389.100	1559361.11	14.8258	A	10.6
5	☐	25000.000	26899.297	3077788.63	31.8604	A	3.2
6	☐	50000.000	51745.076	6041251.44	61.0287	A	2.2
7	☐	100000.00	106804.26	12108088.72	125.6668	A	2.4
8	☐	500000.00	498367.96	56905813.77	585.3523	A	1.9

$$y = 0.0012 * x + 0.2813$$

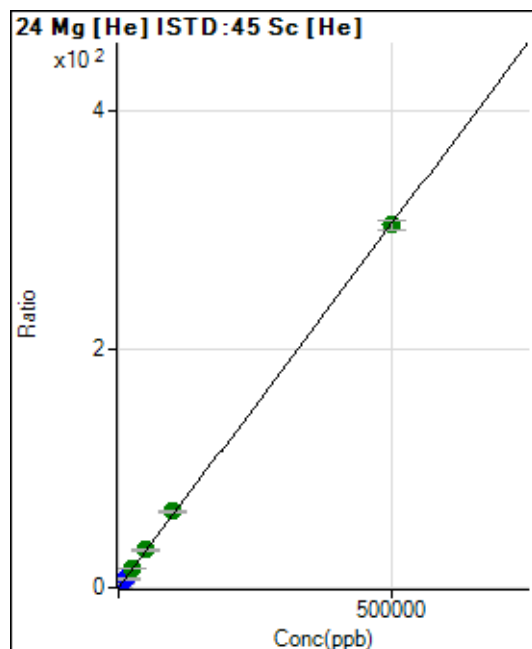
$$R = 0.9999$$

$$DL = 7.576$$

$$BEC = 239.7$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	2425.28	0.0249	P	4.3
2	☐	500.000	504.259	32080.30	0.3325	P	2.2
3	☐	5000.000	5420.750	319874.24	3.3321	P	2.1
4	☐	12500.000	12251.976	788644.86	7.4998	P	10.9
5	☐	25000.000	27049.626	1596307.74	16.5278	A	4.3
6	☐	50000.000	51604.415	3118865.76	31.5086	A	2.6
7	☐	100000.00	104517.44	6146890.28	63.7906	A	1.8
8	☐	500000.00	498835.57	29586810.39	304.3627	A	2.4

$$y = 6.1010E-004 * x + 0.0249$$

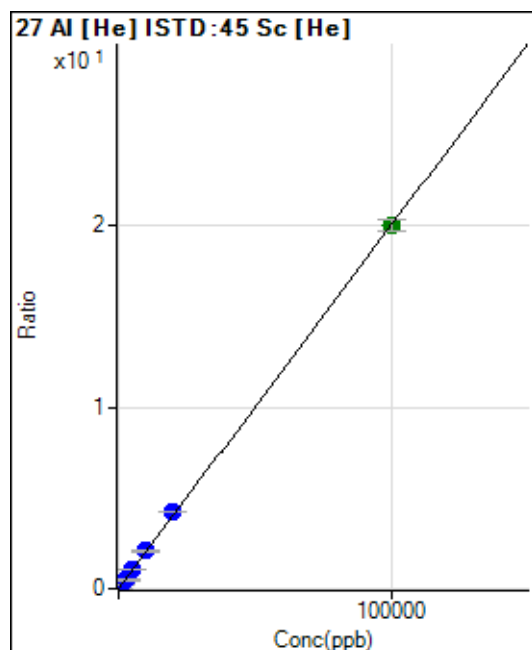
R = 0.9999

DL = 5.316

BEC = 40.79

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	398.71	0.0041	P	4.6
2	☐	20.000	20.715	794.92	0.0082	P	6.6
3	☐	1000.000	1055.789	20696.23	0.2156	P	2.6
4	☐	2500.000	2376.400	50500.08	0.4802	P	10.7
5	☐	5000.000	5294.456	102851.70	1.0647	P	3.4
6	☐	10000.000	10335.335	205350.57	2.0746	P	2.5
7	☐	20000.000	21110.643	407916.10	4.2332	P	1.9
8	☐	100000.00	99732.147	1942226.47	19.9836	A	3.1

$$y = 2.0033E-004 * x + 0.0041$$

R = 0.9999

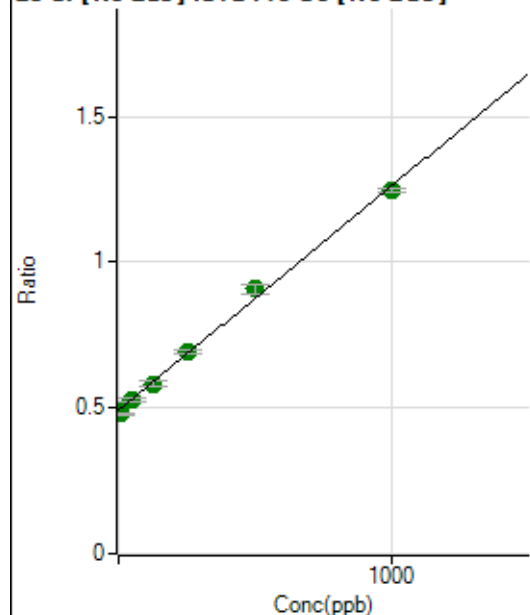
DL = 2.826

BEC = 20.42

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	1180391.67	0.4926	A	4.2
2	☐	10.000	-15.664	1181928.24	0.4806	A	1.3
3	☐	50.000	47.508	1264611.60	0.5292	A	2.4
4	☐	125.000	118.160	1426781.01	0.5835	A	3.3
5	☐	250.000	260.450	1681129.89	0.6930	A	1.3
6	☐	500.000	542.387	2211284.34	0.9099	A	3.7
7	☐	1000.000	977.430	3133924.70	1.2446	A	1.1
8	☐			1299966.44	0.5319	A	1.1

$$y = 7.6932\text{E-}004 * x + 0.4926$$

$$R = 0.9981$$

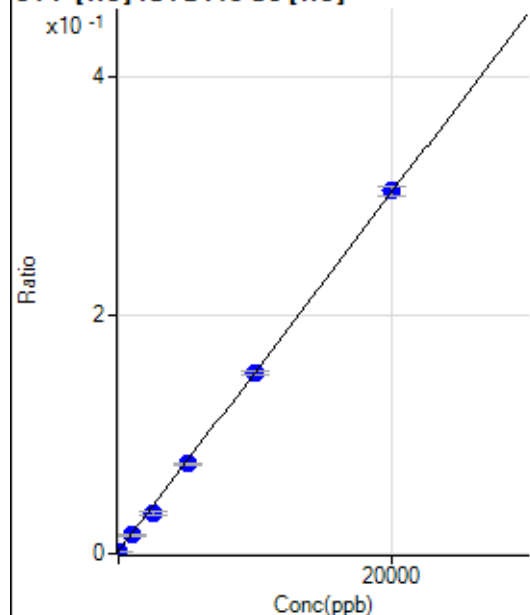
$$DL = 80.85$$

$$BEC = 640.3$$

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	1.124	200.01	0.0021	P	17.3
2	☐	0.000	-1.124	194.45	0.0020	P	20.7
3	☐	1000.000	902.009	1500.12	0.0156	P	9.6
4	☐	2500.000	2116.814	3575.52	0.0339	P	6.6
5	☐	5000.000	4901.422	7324.24	0.0758	P	2.0
6	☐	10000.000	9965.936	15049.81	0.1520	P	1.8
7	☐	20000.000	20094.474	29335.66	0.3044	P	2.3
8	☐			211.12	0.0022	P	32.0

$$y = 1.5050\text{E-}005 * x + 0.0020$$

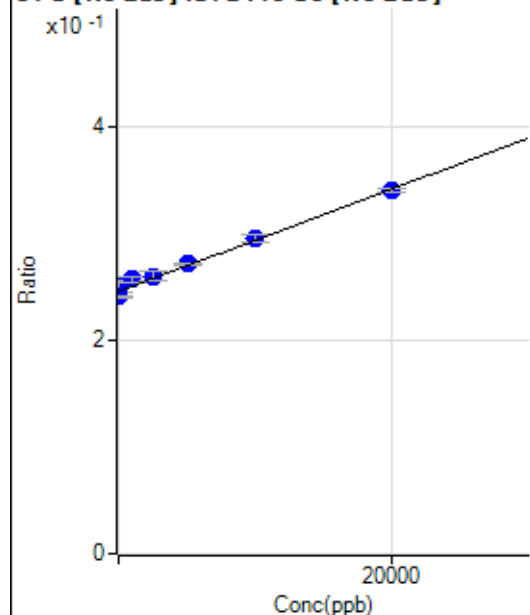
$$R = 0.9998$$

$$DL = 76.97$$

$$BEC = 135.1$$

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	988.783	600936.95	0.2508	P	4.4
2	☐	0.000	-988.783	593524.60	0.2413	P	1.0
3	☐	1000.000	2278.220	614177.16	0.2570	P	2.2
4	☐	2500.000	2877.588	635385.37	0.2599	P	3.3
5	☐	5000.000	5429.657	660108.99	0.2721	P	0.6
6	☐	10000.000	10291.412	718003.70	0.2954	P	2.5
7	☐	20000.000	19635.770	856659.98	0.3402	P	1.2
8	☐			560819.89	0.2295	P	1.6

$$y = 4.7951\text{E-}006 * x + 0.2461$$

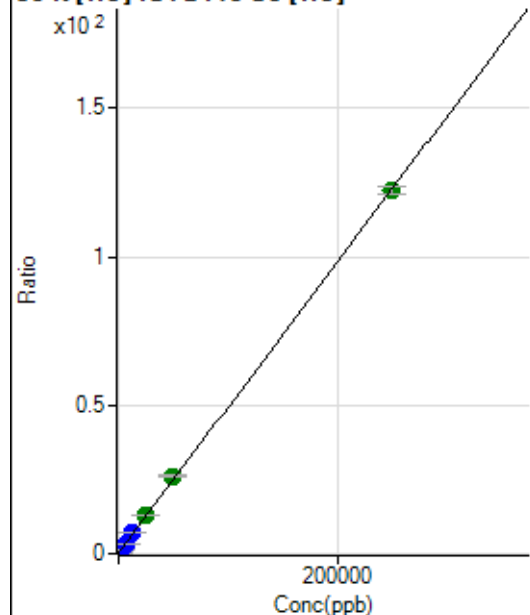
$$R = 0.9947$$

$$DL = 4175$$

$$BEC = 5.132\text{E}+04$$

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	27579.80	0.2831	P	2.7
2	☐	500.000	515.272	51623.22	0.5352	P	0.6
3	☐	2500.000	2707.450	154321.81	1.6074	P	2.2
4	☐	6250.000	6093.438	343155.68	3.2636	P	11.1
5	☐	12500.000	13513.293	665959.08	6.8929	P	2.7
6	☐	25000.000	26247.360	1298962.43	13.1216	A	2.2
7	☐	50000.000	52917.954	2521341.24	26.1671	A	2.2
8	☐	250000.00	249242.81	11879176.39	122.1963	A	2.0

$$y = 4.8913\text{E-}004 * x + 0.2831$$

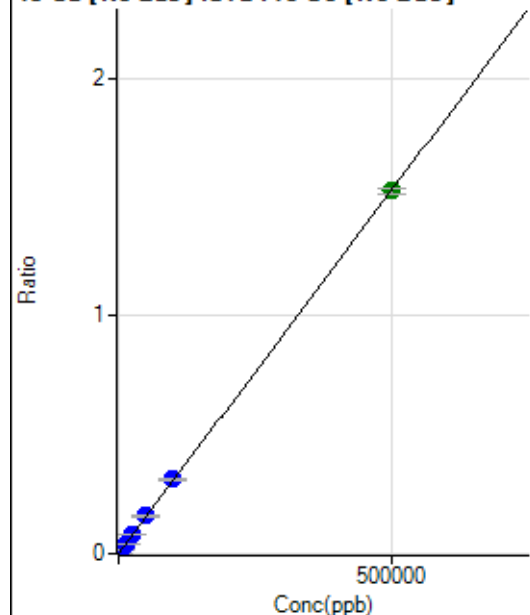
$$R = 0.9999$$

$$DL = 46.34$$

$$BEC = 578.9$$

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	283.30	0.0001	P	6.5
2	☐	500.000	477.771	3880.47	0.0016	P	1.6
3	☐	5000.000	5202.178	38258.33	0.0160	P	2.5
4	☐	12500.000	12869.773	96423.85	0.0394	P	2.8
5	☐	25000.000	26138.924	193992.02	0.0800	P	0.3
6	☐	50000.000	52088.396	386992.70	0.1592	P	3.1
7	☐	100000.00	102167.66	786125.21	0.3122	P	1.1
8	☐	500000.00	499289.43	3728157.97	1.5253	A	1.4

$$y = 3.0548\text{E-}006 * x + 1.1817\text{E-}004$$

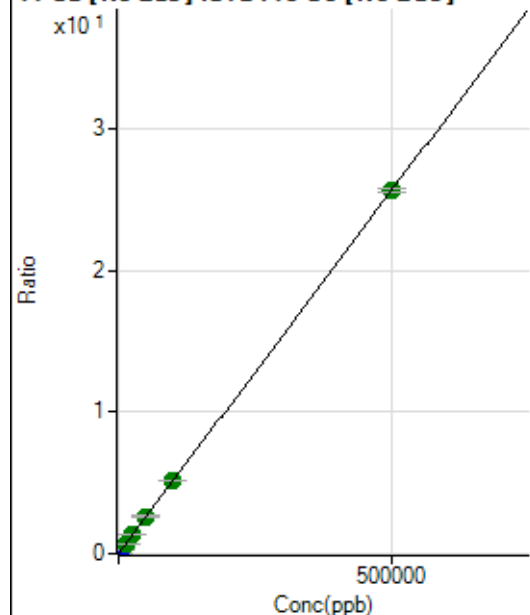
R = 1.0000

DL = 7.564

BEC = 38.68

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	30424.13	0.0127	P	4.3
2	☐	500.000	471.240	90563.36	0.0368	P	1.2
3	☐	5000.000	5236.483	671096.73	0.2808	P	1.8
4	☐	12500.000	12966.325	1654513.05	0.6765	A	2.3
5	☐	25000.000	26148.912	3278580.78	1.3515	A	0.8
6	☐	50000.000	50943.955	6370581.81	2.6209	A	2.7
7	☐	100000.00	100826.17	13029797.13	5.1748	A	1.2
8	☐	500000.00	499668.93	62556538.03	25.5948	A	1.2

$$y = 5.1198\text{E-}005 * x + 0.0127$$

R = 1.0000

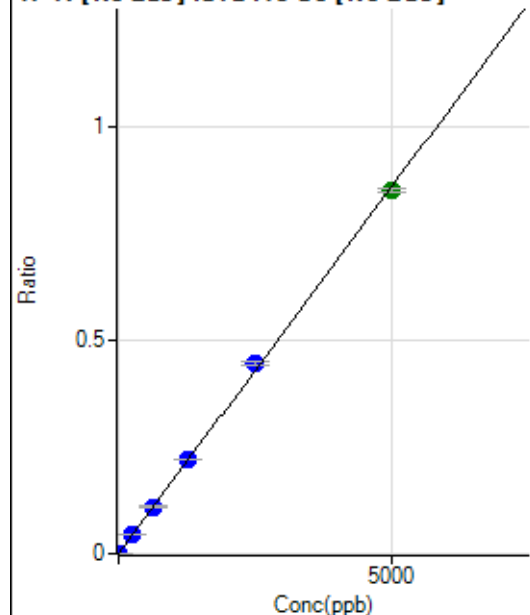
DL = 31.7

BEC = 248

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	338.90	0.0001	P	11.4
2	☐	5.000	4.994	2458.61	0.0010	P	9.5
3	☐	250.000	256.672	105809.91	0.0443	P	2.1
4	☐	625.000	636.423	267897.13	0.1096	P	3.4
5	☐	1250.000	1273.297	531447.99	0.2191	P	0.1
6	☐	2500.000	2590.850	1083039.07	0.4456	P	2.5
7	☐	5000.000	4946.989	2142017.65	0.8507	A	1.1
8	☐			694.48	0.0003	P	22.3

$$y = 1.7194\text{E-}004 * x + 1.4133\text{E-}004$$

$$R = 0.9997$$

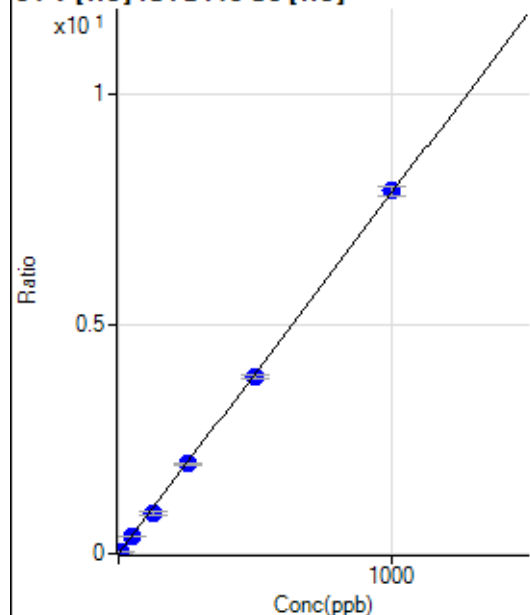
$$DL = 0.2804$$

$$BEC = 0.822$$

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	10.00	0.0001	P	1.2
2	☐	5.000	4.727	3588.26	0.0372	P	0.8
3	☐	50.000	49.847	37569.29	0.3913	P	1.3
4	☐	125.000	112.063	92513.11	0.8796	P	10.6
5	☐	250.000	248.599	188480.08	1.9511	P	3.2
6	☐	500.000	490.575	381070.40	3.8501	P	2.8
7	☐	1000.000	1006.689	761147.84	7.9005	P	2.9
8	☐			141.11	0.0015	P	10.4

$$y = 0.0078 * x + 1.0265\text{E-}004$$

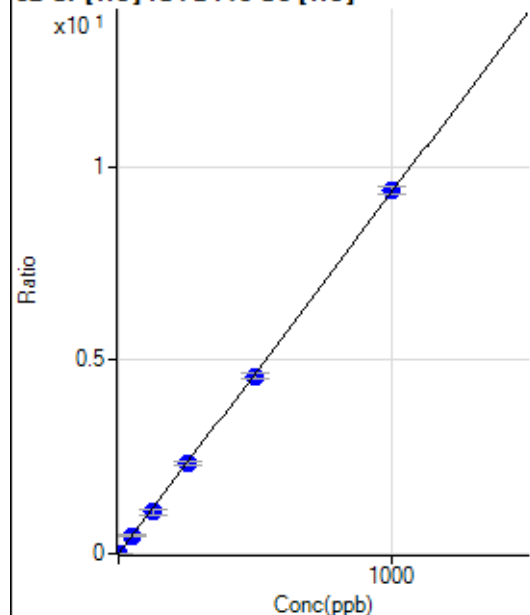
$$R = 0.9999$$

$$DL = 0.0004825$$

$$BEC = 0.01308$$

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	582.24	0.0060	P	9.4
2	☐	2.000	1.952	2330.21	0.0242	P	2.5
3	☐	50.000	49.991	45255.77	0.4714	P	2.6
4	☐	125.000	114.534	112795.70	1.0724	P	10.6
5	☐	250.000	252.194	227391.83	2.3541	P	4.0
6	☐	500.000	491.528	453600.09	4.5826	P	2.6
7	☐	1000.000	1004.996	902197.39	9.3634	P	2.2
8	☐			8482.58	0.0873	P	2.2

$$y = 0.0093 * x + 0.0060$$

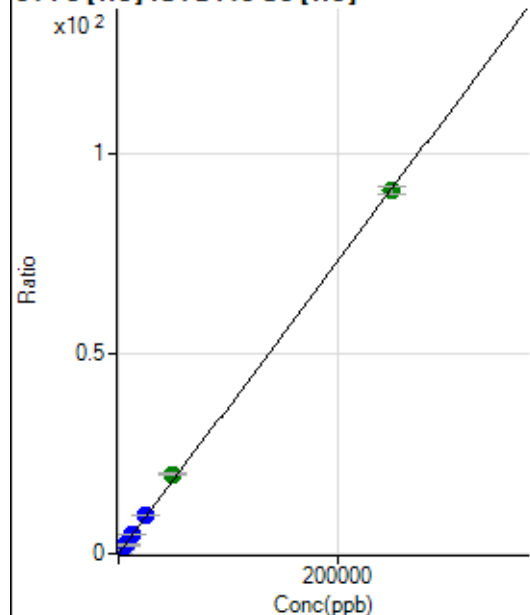
$$R = 0.9999$$

$$DL = 0.1818$$

$$BEC = 0.642$$

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	450.01	0.0046	P	15.4
2	☐	50.000	54.814	2372.47	0.0246	P	3.7
3	☐	2500.000	2728.208	95863.59	0.9986	P	2.2
4	☐	6250.000	6129.658	235360.29	2.2379	P	10.7
5	☐	12500.000	13482.682	474978.10	4.9168	P	3.2
6	☐	25000.000	26338.511	950268.34	9.6006	P	2.7
7	☐	50000.000	54631.045	1918447.24	19.9086	A	1.6
8	☐	250000.00	248891.53	8816015.94	90.6844	A	2.2

$$y = 3.6433E-004 * x + 0.0046$$

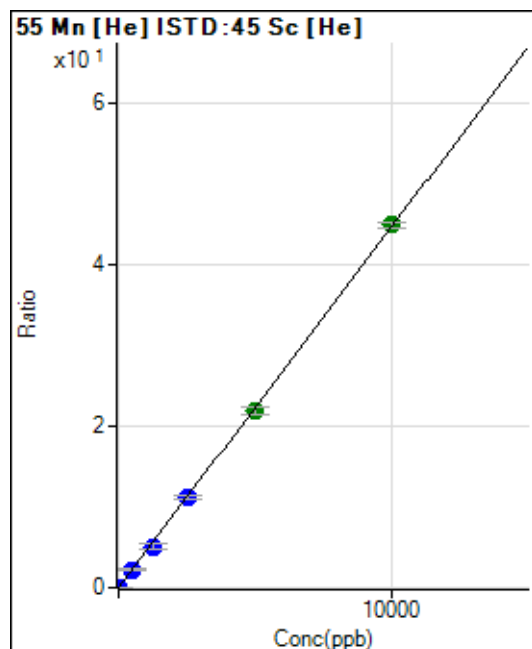
$$R = 0.9998$$

$$DL = 5.856$$

$$BEC = 12.69$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	170.00	0.0017	P	15.7
2	☐	1.000	0.908	560.02	0.0058	P	4.8
3	☐	500.000	506.070	217339.83	2.2638	P	1.6
4	☐	1250.000	1143.449	537899.25	5.1129	P	10.2
5	☐	2500.000	2500.644	1079947.88	11.1794	P	3.3
6	☐	5000.000	4908.639	2171418.88	21.9430	A	3.7
7	☐	10000.000	10058.535	4332638.62	44.9627	A	1.9
8	☐			4492.97	0.0462	P	1.7

$$y = 0.0045 * x + 0.0017$$

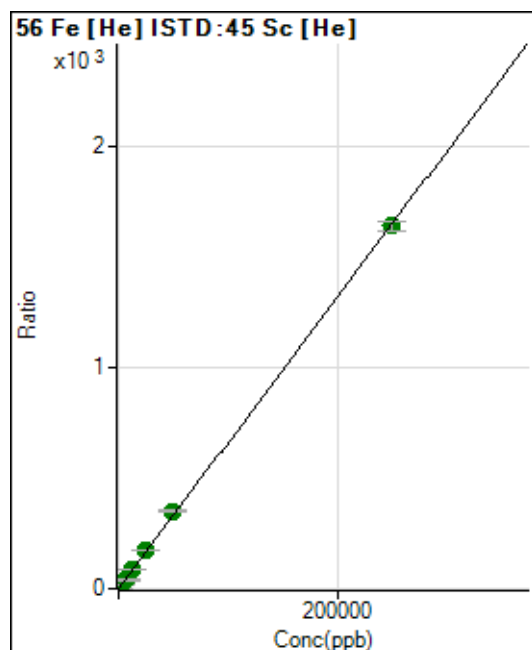
$$R = 0.9999$$

$$DL = 0.1835$$

$$BEC = 0.3907$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	4095.12	0.0421	P	6.5
2	☐	50.000	52.184	37213.48	0.3858	P	1.7
3	☐	2500.000	2714.929	1721032.66	17.9264	A	1.6
4	☐	6250.000	6099.196	4234003.94	40.2199	A	9.3
5	☐	12500.000	13324.794	8482373.62	87.8179	A	3.9
6	☐	25000.000	26195.156	17084891.82	172.6002	A	2.6
7	☐	50000.000	53449.062	33929770.44	352.1328	A	2.2
8	☐	250000.00	249151.05	159545503.5	1,641.301	A	2.5

$$y = 0.0066 * x + 0.0421$$

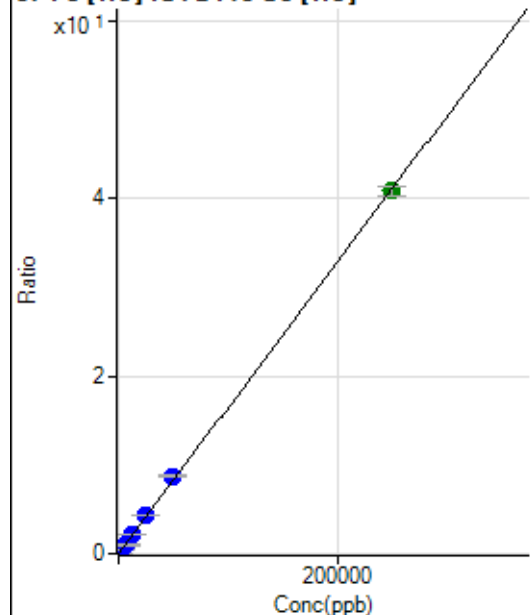
$$R = 0.9999$$

$$DL = 1.251$$

$$BEC = 6.384$$

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	159.26	0.0016	P	11.7
2	☐	50.000	44.846	866.71	0.0090	P	7.4
3	☐	2500.000	2671.470	42210.65	0.4396	P	0.8
4	☐	6250.000	6067.303	104819.00	0.9964	P	10.4
5	☐	12500.000	13489.974	213788.61	2.2133	P	3.8
6	☐	25000.000	26187.846	425140.11	4.2951	P	2.6
7	☐	50000.000	53467.003	844824.54	8.7676	P	2.3
8	☐	250000.00	249141.17	3970428.62	40.8485	A	2.9

$$y = 1.6395E-004 * x + 0.0016$$

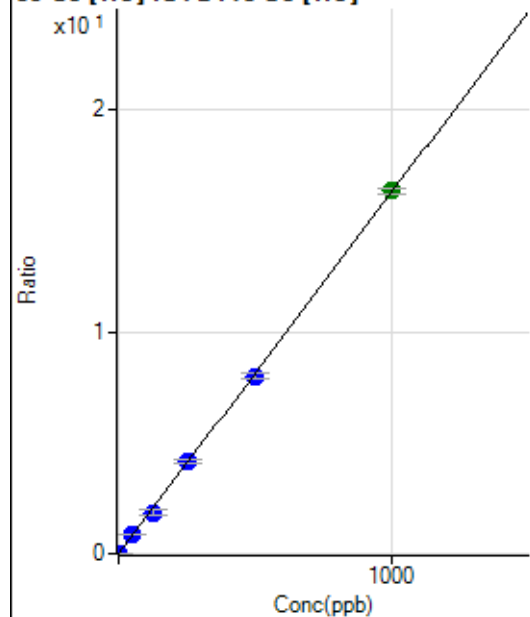
$$R = 0.9999$$

$$DL = 3.494$$

$$BEC = 9.966$$

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	86.67	0.0009	P	14.2
2	☐	1.000	0.999	1656.78	0.0172	P	4.0
3	☐	50.000	50.834	79625.52	0.8292	P	0.5
4	☐	125.000	114.343	196050.22	1.8641	P	10.7
5	☐	250.000	253.850	399678.33	4.1374	P	3.4
6	☐	500.000	492.173	793958.16	8.0210	P	2.5
7	☐	1000.000	1004.242	1577189.98	16.3653	A	1.5
8	☐			2932.56	0.0302	P	3.9

$$y = 0.0163 * x + 8.8854E-004$$

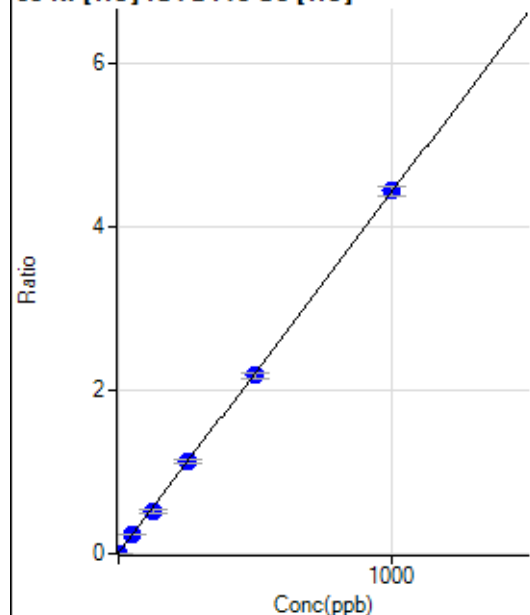
$$R = 0.9999$$

$$DL = 0.02319$$

$$BEC = 0.05453$$

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	456.68	0.0047	P	6.2
2	☐	1.000	1.043	895.59	0.0093	P	4.8
3	☐	50.000	51.421	22210.73	0.2314	P	2.3
4	☐	125.000	116.139	54341.06	0.5167	P	10.6
5	☐	250.000	252.567	107993.71	1.1181	P	4.1
6	☐	500.000	492.688	215437.35	2.1766	P	2.8
7	☐	1000.000	1004.051	426885.59	4.4308	P	2.6
8	☐			3370.44	0.0347	P	5.4

$$y = 0.0044 * x + 0.0047$$

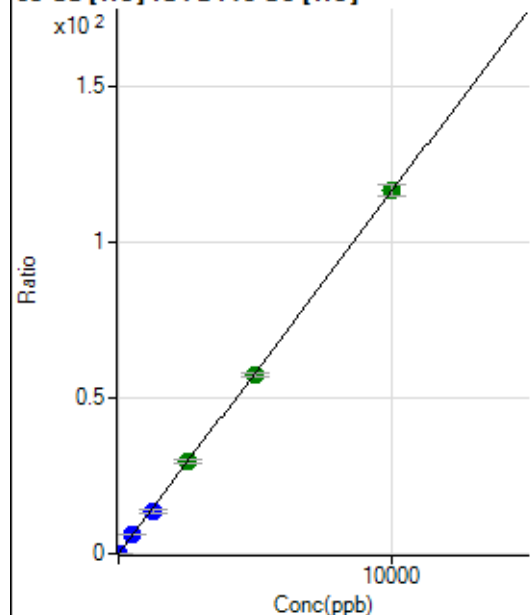
$$R = 0.9999$$

$$DL = 0.1982$$

$$BEC = 1.064$$

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	923.37	0.0095	P	3.9
2	☐	2.000	2.065	3225.96	0.0334	P	3.5
3	☐	500.000	519.498	579767.38	6.0392	P	2.0
4	☐	1250.000	1173.849	1434261.40	13.6342	P	10.3
5	☐	2500.000	2561.598	2873110.34	29.7416	A	3.2
6	☐	5000.000	4949.617	5687797.90	57.4589	A	2.3
7	☐	10000.000	10018.336	11203009.28	116.2908	A	3.3
8	☐			8962.92	0.0923	P	5.9

$$y = 0.0116 * x + 0.0095$$

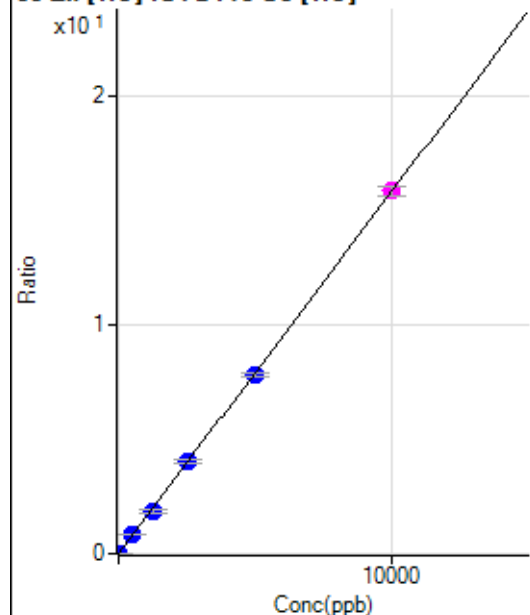
$$R = 0.9999$$

$$DL = 0.09499$$

$$BEC = 0.8167$$

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	69.13	0.0007	P	13.1
2	☐	2.000	1.850	350.11	0.0036	P	8.2
3	☐	500.000	518.370	78608.87	0.8189	P	2.3
4	☐	1250.000	1166.675	193723.31	1.8421	P	10.8
5	☐	2500.000	2546.605	388329.42	4.0200	P	3.5
6	☐	5000.000	4942.237	772167.74	7.8011	P	2.6
7	☐	10000.000	10026.727	1524789.71	15.8260	M	2.5
8	☐			3504.48	0.0360	P	1.5

$$y = 0.0016 * x + 7.0983E-004$$

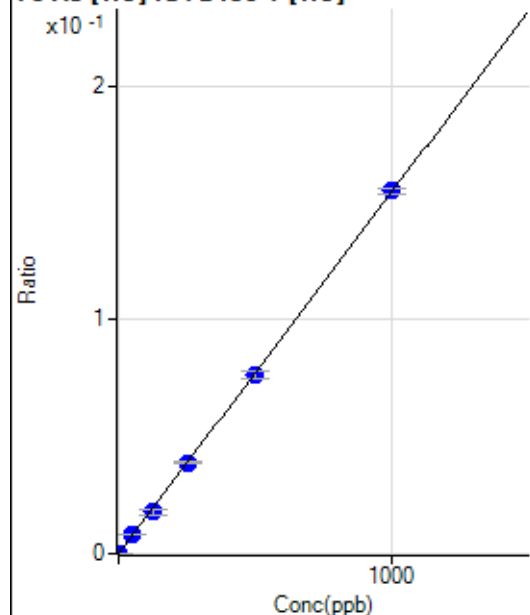
$$R = 0.9999$$

$$DL = 0.1762$$

$$BEC = 0.4497$$

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	6.33	0.0000	P	40.6
2	☐	1.000	0.904	113.68	0.0001	P	4.6
3	☐	50.000	51.029	6018.23	0.0079	P	1.2
4	☐	125.000	115.280	14800.56	0.0178	P	11.1
5	☐	250.000	251.766	29881.45	0.0389	P	2.9
6	☐	500.000	494.044	60051.40	0.0763	P	3.8
7	☐	1000.000	1003.700	120298.07	0.1550	P	1.6
8	☐			52.68	0.0001	P	2.7

$$y = 1.5445E-004 * x + 8.2558E-006$$

$$R = 0.9999$$

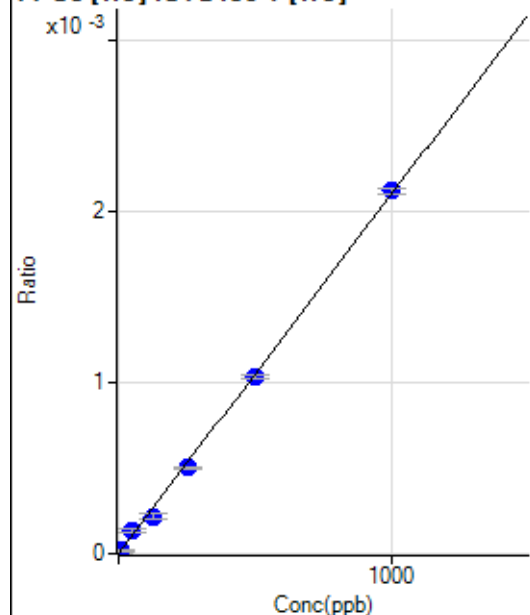
$$DL = 0.06507$$

$$BEC = 0.05345$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	1.11	0.0000	P	173.2
2	☐	5.000	8.263	14.44	0.0000	P	70.9
3	☐	50.000	63.951	103.33	0.0001	P	20.9
4	☐	125.000	103.646	182.23	0.0002	P	14.3
5	☐	250.000	237.522	384.45	0.0005	P	0.5
6	☐	500.000	492.327	815.59	0.0010	P	1.5
7	☐	1000.000	1008.911	1645.67	0.0021	P	1.8
8	☐			4.44	0.0000	P	115.3

$$y = 2.0999\text{E-}006 * x + 1.4429\text{E-}006$$

$$R = 0.9994$$

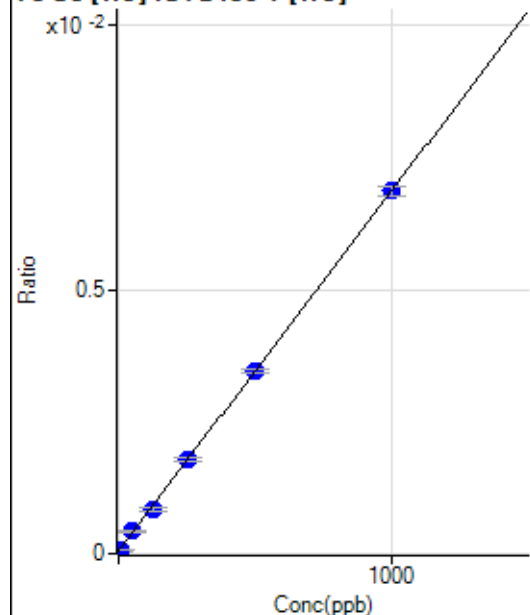
$$DL = 3.57$$

$$BEC = 0.6871$$

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	0.0001	P	18.3
2	☐	5.000	4.702	64.01	0.0001	P	4.5
3	☐	50.000	55.699	328.70	0.0004	P	7.5
4	☐	125.000	114.694	692.09	0.0008	P	10.4
5	☐	250.000	254.619	1371.88	0.0018	P	3.9
6	☐	500.000	499.257	2717.87	0.0035	P	2.2
7	☐	1000.000	1000.221	5326.21	0.0069	P	2.4
8	☐			57.68	0.0001	P	8.1

$$y = 6.8121\text{E-}006 * x + 5.1198\text{E-}005$$

$$R = 0.9999$$

$$DL = 4.118$$

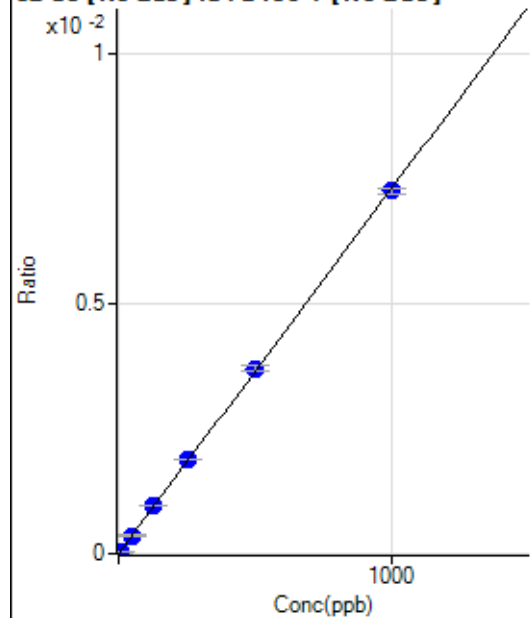
$$BEC = 7.516$$

Weight: <None>

Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			2733.10		P	2.9
2	☐			2482.78		P	8.3
3	☐			2642.99		P	6.6
4	☐			2786.50		P	3.8
5	☐			2923.33		P	6.2
6	☐			2773.14		P	10.7
7	☐			2709.74		P	9.5
8	☐			2953.35		P	6.5

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	7.81	0.0000	P	674.4
2	☐	5.000	4.618	237.58	0.0000	P	25.3
3	☐	50.000	49.207	2418.64	0.0004	P	6.6
4	☐	125.000	131.103	6433.21	0.0010	P	3.2
5	☐	250.000	256.838	12673.98	0.0019	P	0.8
6	☐	500.000	507.045	24974.44	0.0037	P	3.0
7	☐	1000.000	994.047	50219.46	0.0073	P	1.3
8	☐			-1.61	0.0000	P	-1541.

$$y = 7.3036E-006 * x + 9.6765E-007$$

$$R = 0.9999$$

$$DL = 2.68$$

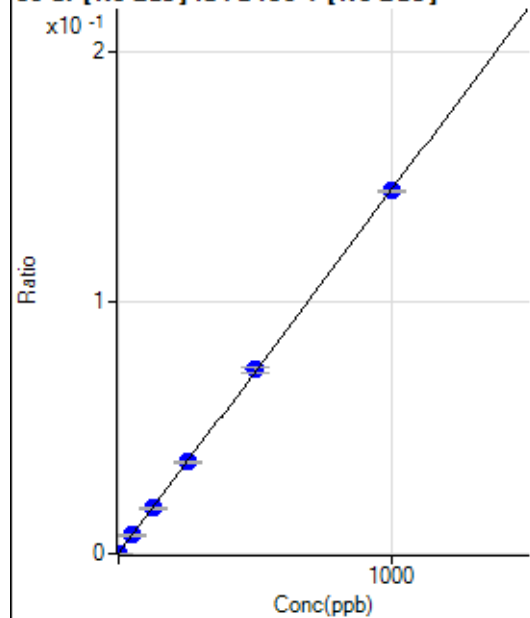
$$BEC = 0.1325$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			433.35		P	7.6
2	☐			456.68		P	14.6
3	☐			468.90		P	13.2
4	☐			446.68		P	7.1
5	☐			411.12		P	6.6
6	☐			460.01		P	11.3
7	☐			466.68		P	15.3
8	☐			463.35		P	10.1

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	697.26	0.0001	P	20.2
2	☐	1.000	0.828	1530.69	0.0002	P	8.5
3	☐	50.000	49.718	49070.15	0.0073	P	2.4
4	☐	125.000	125.610	122769.42	0.0183	P	3.4
5	☐	250.000	251.339	246464.04	0.0365	P	1.3
6	☐	500.000	504.524	493213.40	0.0732	P	3.4
7	☐	1000.000	997.341	999586.43	0.1445	P	0.6
8	☐			6070.94	0.0009	P	7.1

$$y = 1.4480E-004 * x + 1.0398E-004$$

$$R = 1.0000$$

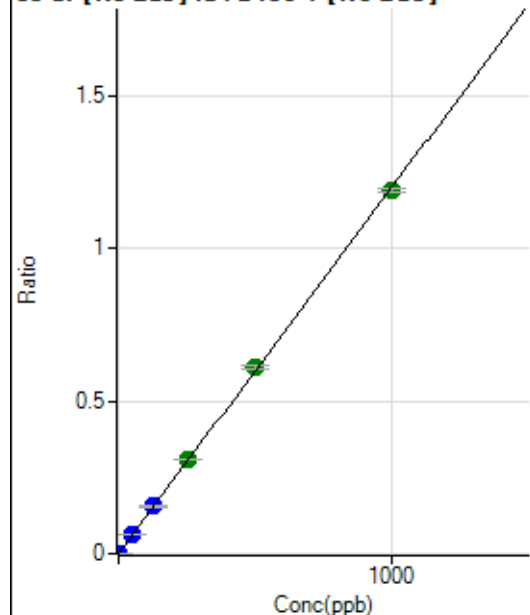
$$DL = 0.4345$$

$$BEC = 0.7181$$

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	147.23	0.0000	P	33.0
2	☐	1.000	0.960	8005.26	0.0012	P	3.8
3	☐	50.000	51.715	415765.26	0.0619	P	4.0
4	☐	125.000	130.537	1048602.70	0.1562	P	2.7
5	☐	250.000	257.706	2082569.38	0.3084	A	1.0
6	☐	500.000	511.104	4123856.56	0.6116	A	2.6
7	☐	1000.000	991.744	8208532.74	1.1867	A	1.1
8	☐			44822.49	0.0066	P	2.0

$$y = 0.0012 * x + 2.1927E-005$$

$$R = 0.9999$$

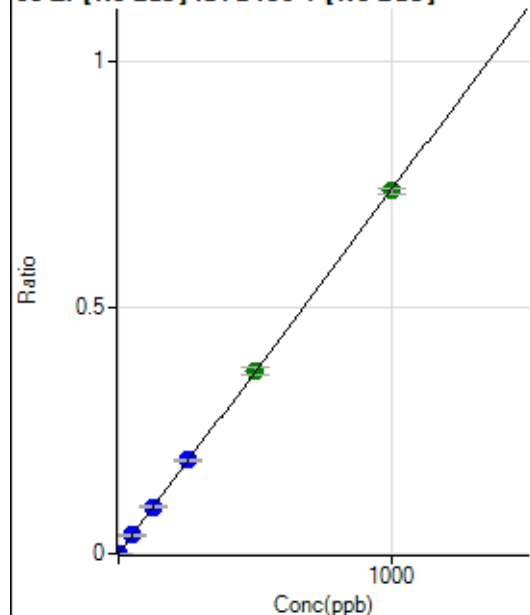
$$DL = 0.01812$$

$$BEC = 0.01833$$

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	244.45	0.0000	P	9.8
2	☐	1.000	0.962	5112.17	0.0007	P	1.9
3	☐	50.000	50.419	250546.35	0.0373	P	4.0
4	☐	125.000	128.469	637697.64	0.0950	P	2.2
5	☐	250.000	256.311	1279647.74	0.1895	P	0.6
6	☐	500.000	502.337	2503561.97	0.3714	A	3.4
7	☐	1000.000	996.799	5096075.46	0.7368	A	1.6
8	☐			1852.96	0.0003	P	7.4

$$y = 7.3918E-004 * x + 3.6502E-005$$

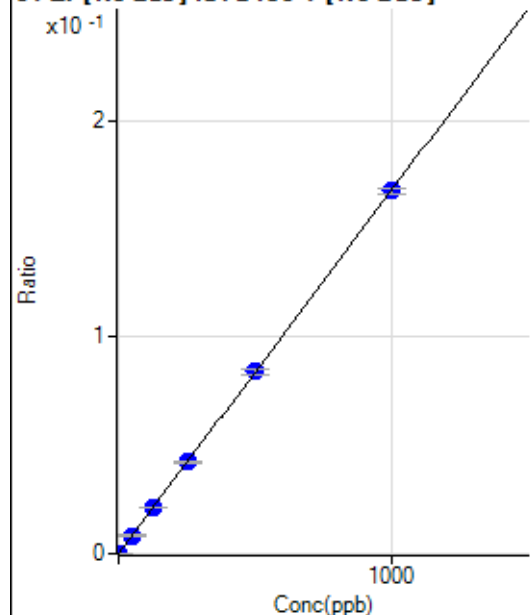
$$R = 1.0000$$

$$DL = 0.01455$$

$$BEC = 0.04938$$

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	52.78	0.0000	P	21.2
2	☐	1.000	0.894	1080.63	0.0002	P	13.1
3	☐	50.000	49.651	56032.32	0.0083	P	5.3
4	☐	125.000	126.517	142672.30	0.0213	P	2.3
5	☐	250.000	252.278	286128.30	0.0424	P	1.8
6	☐	500.000	501.396	567709.25	0.0842	P	3.2
7	☐	1000.000	998.560	1159798.00	0.1677	P	1.4
8	☐			386.13	0.0001	P	12.5

$$y = 1.6793\text{E-}004 * x + 7.9407\text{E-}006$$

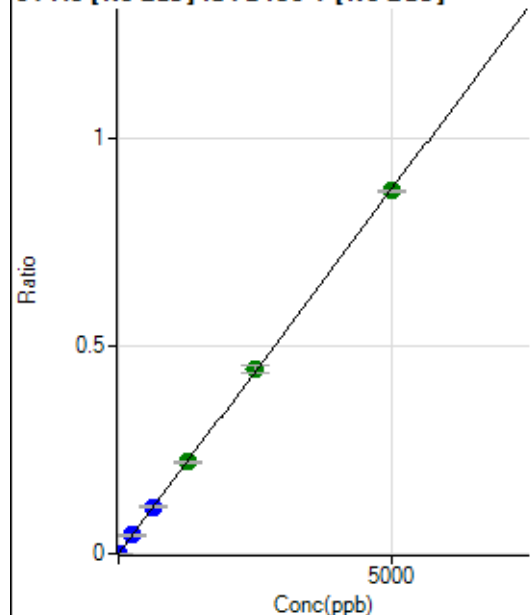
$$R = 1.0000$$

$$DL = 0.03001$$

$$BEC = 0.04729$$

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	83.34	0.0000	P	6.0
2	☐	5.000	4.646	5662.43	0.0008	P	5.8
3	☐	250.000	253.937	299262.03	0.0446	P	3.8
4	☐	625.000	641.359	755237.90	0.1125	P	2.5
5	☐	1250.000	1255.577	1487349.64	0.2203	A	0.7
6	☐	2500.000	2534.499	2997096.07	0.4446	A	3.6
7	☐	5000.000	4979.115	6040979.00	0.8734	A	0.7
8	☐			2855.92	0.0004	P	7.8

$$y = 1.7541\text{E-}004 * x + 1.2458\text{E-}005$$

$$R = 1.0000$$

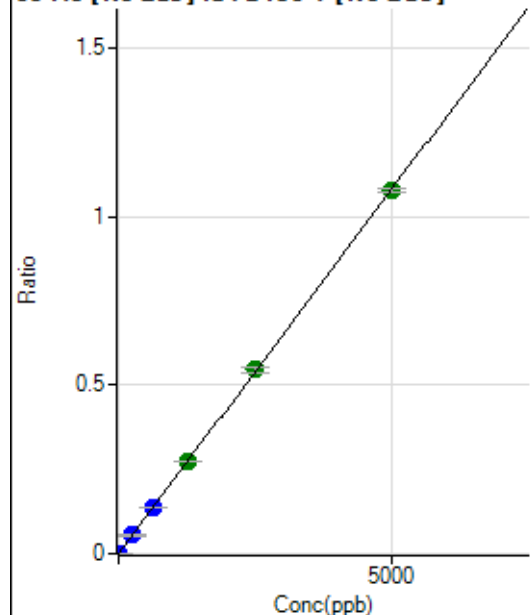
$$DL = 0.01273$$

$$BEC = 0.07102$$

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	25.00	0.0000	P	54.7
2	☐	5.000	4.873	7221.50	0.0011	P	6.2
3	☐	250.000	251.679	364989.78	0.0543	P	4.2
4	☐	625.000	635.899	921790.08	0.1373	P	2.0
5	☐	1250.000	1269.666	1851406.44	0.2742	A	0.6
6	☐	2500.000	2525.513	3676295.40	0.5453	A	3.6
7	☐	5000.000	4980.881	7438763.27	1.0755	A	1.0
8	☐			3967.35	0.0006	P	1.0

$$y = 2.1593\text{E-}004 * x + 3.7087\text{E-}006$$

$$R = 1.0000$$

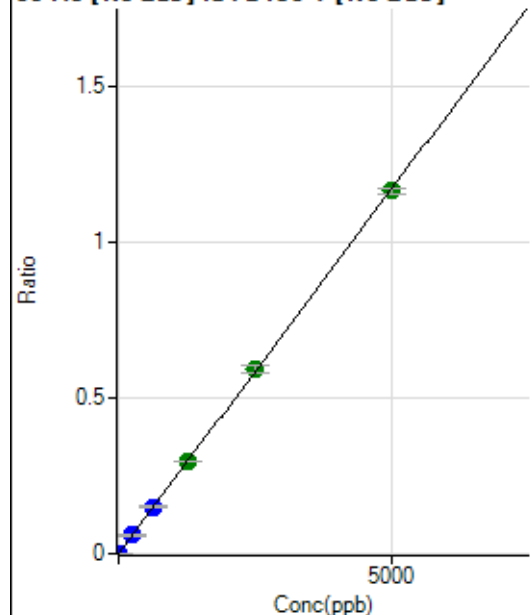
$$DL = 0.02816$$

$$BEC = 0.01718$$

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	38.89	0.0000	P	21.9
2	☐	5.000	4.833	7763.51	0.0011	P	3.6
3	☐	250.000	254.159	398897.38	0.0594	P	3.7
4	☐	625.000	642.733	1008178.50	0.1502	P	1.8
5	☐	1250.000	1270.103	2004050.65	0.2968	A	0.5
6	☐	2500.000	2533.611	3990272.83	0.5920	A	4.0
7	☐	5000.000	4975.745	8040358.16	1.1626	A	1.8
8	☐			4764.84	0.0007	P	8.7

$$y = 2.3365\text{E-}004 * x + 5.8038\text{E-}006$$

$$R = 1.0000$$

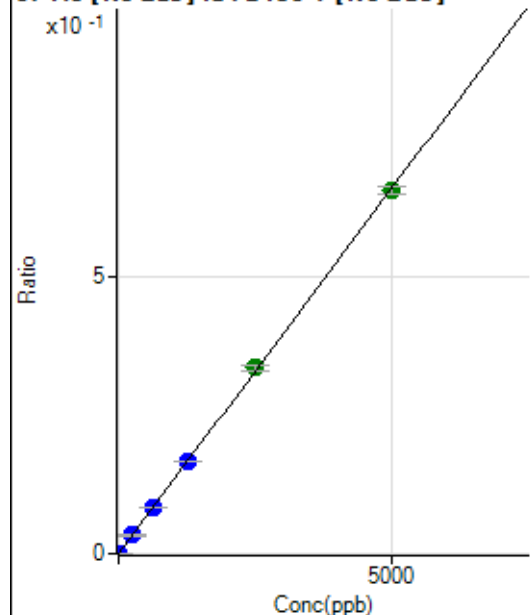
$$DL = 0.01636$$

$$BEC = 0.02484$$

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	5.55	0.0000	P	86.9
2	☐	5.000	4.948	4464.73	0.0007	P	2.9
3	☐	250.000	252.869	223764.20	0.0333	P	3.7
4	☐	625.000	633.570	560351.65	0.0835	P	1.9
5	☐	1250.000	1269.094	1129085.44	0.1672	P	0.8
6	☐	2500.000	2548.137	2263226.70	0.3357	A	3.2
7	☐	5000.000	4969.943	4528319.76	0.6548	A	2.0
8	☐			2439.19	0.0004	P	9.3

$$y = 1.3175\text{E-}004 * x + 8.4319\text{E-}007$$

$$R = 0.9999$$

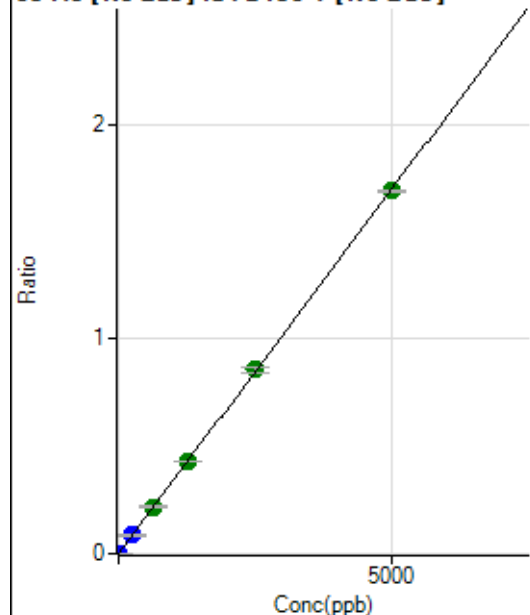
$$DL = 0.01668$$

$$BEC = 0.0064$$

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	25.00	0.0000	P	88.1
2	☐	5.000	4.898	11385.52	0.0017	P	2.8
3	☐	250.000	254.031	578685.70	0.0862	P	3.6
4	☐	625.000	639.747	1456210.28	0.2170	A	3.3
5	☐	1250.000	1269.866	2908211.00	0.4307	A	1.4
6	☐	2500.000	2524.151	5770906.99	0.8560	A	3.4
7	☐	5000.000	4980.913	11683590.28	1.6892	A	0.7
8	☐			6076.49	0.0009	P	8.7

$$y = 3.3914\text{E-}004 * x + 3.6392\text{E-}006$$

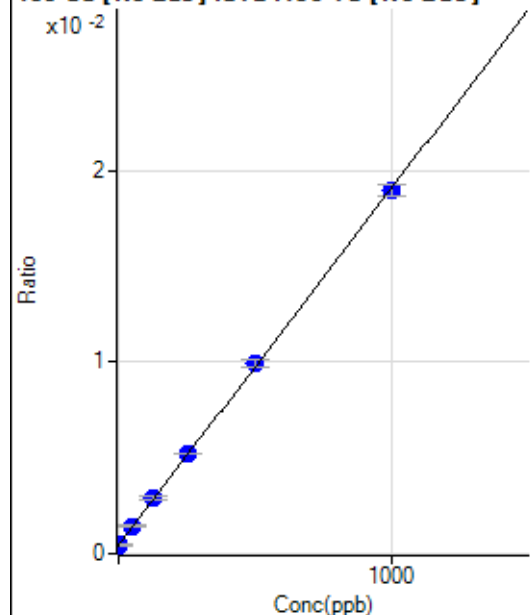
$$R = 1.0000$$

$$DL = 0.02836$$

$$BEC = 0.01073$$

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	1639.03	0.0004	P	4.8
2	☐	1.000	0.935	1736.27	0.0005	P	10.0
3	☐	50.000	53.714	5392.88	0.0014	P	5.6
4	☐	125.000	130.706	10851.72	0.0029	P	5.7
5	☐	250.000	255.758	19817.45	0.0052	P	1.0
6	☐	500.000	509.929	37958.37	0.0099	P	4.4
7	☐	1000.000	992.697	75051.07	0.0189	P	3.2
8	☐			1797.40	0.0005	P	3.8

$$y = 1.8636E-005 * x + 4.4436E-004$$

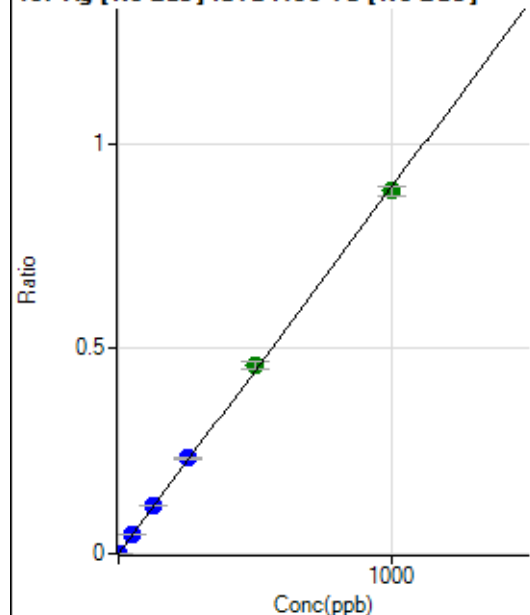
$$R = 0.9999$$

$$DL = 3.416$$

$$BEC = 23.84$$

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	66.67	0.0000	P	52.2
2	☐	1.000	0.961	3294.94	0.0009	P	3.3
3	☐	50.000	52.942	176581.36	0.0473	P	4.1
4	☐	125.000	131.813	444066.13	0.1178	P	2.2
5	☐	250.000	260.409	885083.29	0.2327	P	1.3
6	☐	500.000	513.133	1749900.78	0.4586	A	4.6
7	☐	1000.000	989.833	3504407.67	0.8846	A	2.5
8	☐			1941.88	0.0005	P	2.4

$$y = 8.9362E-004 * x + 1.7791E-005$$

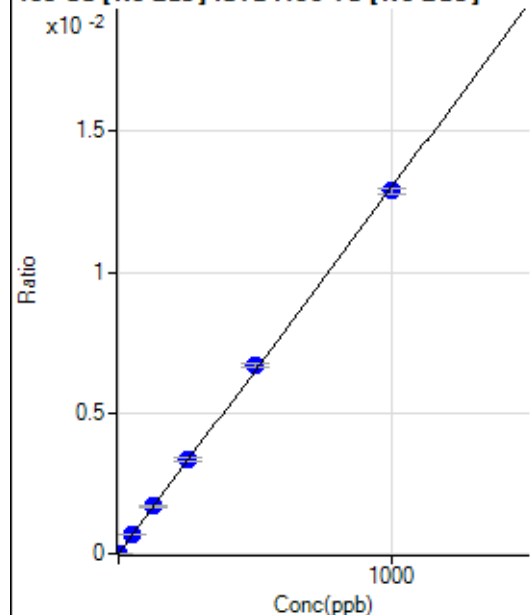
$$R = 0.9998$$

$$DL = 0.03115$$

$$BEC = 0.01991$$

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	15.28	0.0000	P	103.6
2	☐	1.000	1.191	73.61	0.0000	P	33.3
3	☐	50.000	53.017	2589.17	0.0007	P	3.4
4	☐	125.000	128.517	6316.79	0.0017	P	1.8
5	☐	250.000	257.288	12735.17	0.0033	P	4.5
6	☐	500.000	514.301	25537.63	0.0067	P	2.8
7	☐	1000.000	990.437	51035.64	0.0129	P	1.5
8	☐			55.56	0.0000	P	18.1

$$y = 1.3001\text{E-}005 * x + 4.1175\text{E-}006$$

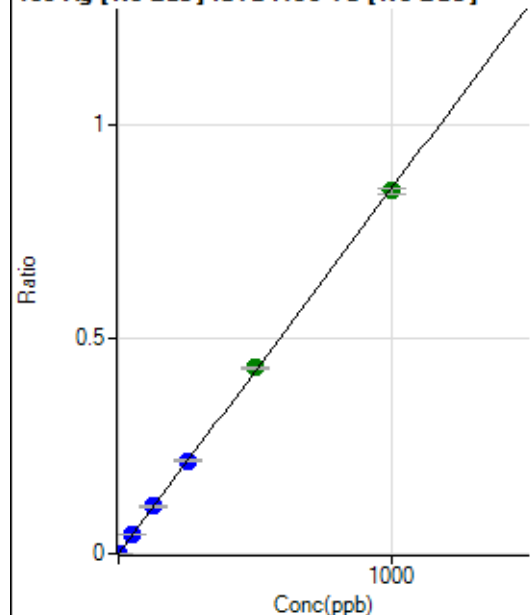
$$R = 0.9998$$

$$DL = 0.9842$$

$$BEC = 0.3167$$

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	27.78	0.0000	P	64.4
2	☐	1.000	0.945	3050.43	0.0008	P	4.0
3	☐	50.000	51.780	164523.09	0.0441	P	4.5
4	☐	125.000	129.058	414318.84	0.1099	P	1.8
5	☐	250.000	254.640	824697.85	0.2168	P	1.6
6	☐	500.000	509.476	1656355.25	0.4339	A	1.1
7	☐	1000.000	993.506	3352001.90	0.8460	A	1.8
8	☐			1775.17	0.0005	P	4.4

$$y = 8.5156\text{E-}004 * x + 7.5733\text{E-}006$$

$$R = 0.9999$$

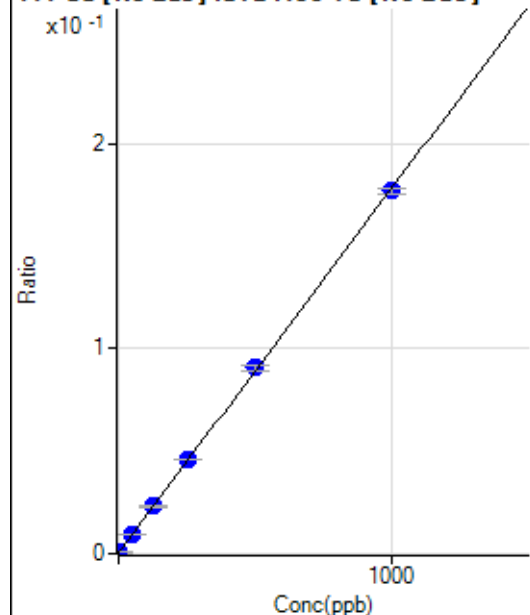
$$DL = 0.01719$$

$$BEC = 0.008893$$

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	1150.52	0.0003	P	4.6
2	☐	1.000	1.189	1966.67	0.0005	P	9.8
3	☐	50.000	51.722	35442.25	0.0095	P	3.9
4	☐	125.000	129.321	87741.78	0.0233	P	3.4
5	☐	250.000	255.630	173875.55	0.0457	P	1.0
6	☐	500.000	508.734	346054.01	0.0907	P	3.3
7	☐	1000.000	993.599	700480.88	0.1768	P	1.7
8	☐			1535.97	0.0004	P	3.9

$$y = 1.7762\text{E-}004 * x + 3.1186\text{E-}004$$

$$R = 0.9999$$

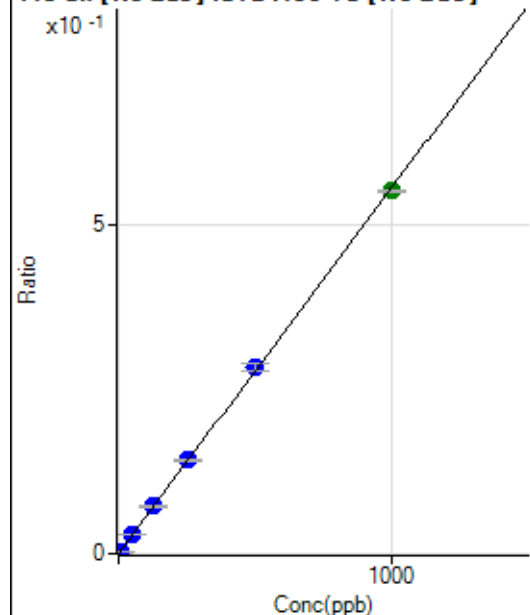
$$DL = 0.2428$$

$$BEC = 1.756$$

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	191.67	0.0001	P	17.3
2	☐	5.000	4.797	10209.64	0.0027	P	1.7
3	☐	50.000	51.693	107310.84	0.0288	P	4.7
4	☐	125.000	129.182	270709.60	0.0718	P	1.5
5	☐	250.000	256.217	541467.41	0.1424	P	1.1
6	☐	500.000	510.953	1083358.04	0.2839	P	3.7
7	☐	1000.000	992.363	2184412.57	0.5513	A	0.2
8	☐			1183.41	0.0003	P	3.4

$$y = 5.5547\text{E-}004 * x + 5.1619\text{E-}005$$

$$R = 0.9999$$

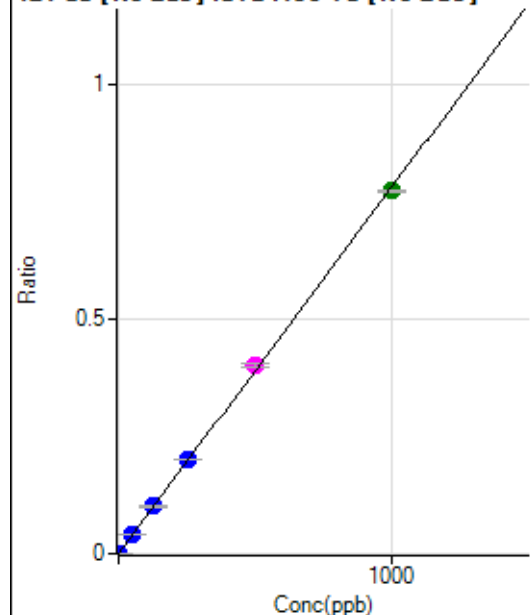
$$DL = 0.04817$$

$$BEC = 0.09293$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	25.00	0.0000	P	36.6
2	☐	2.000	1.936	5706.93	0.0015	P	3.6
3	☐	50.000	51.921	151303.78	0.0405	P	3.5
4	☐	125.000	129.956	382481.37	0.1015	P	2.7
5	☐	250.000	258.172	766729.80	0.2016	P	0.3
6	☐	500.000	512.869	1528550.18	0.4005	M	2.4
7	☐	1000.000	990.807	3065470.77	0.7736	A	0.4
8	☐			2575.32	0.0007	P	10.5

$$y = 7.8082\text{E-}004 * x + 6.8161\text{E-}006$$

$$R = 0.9998$$

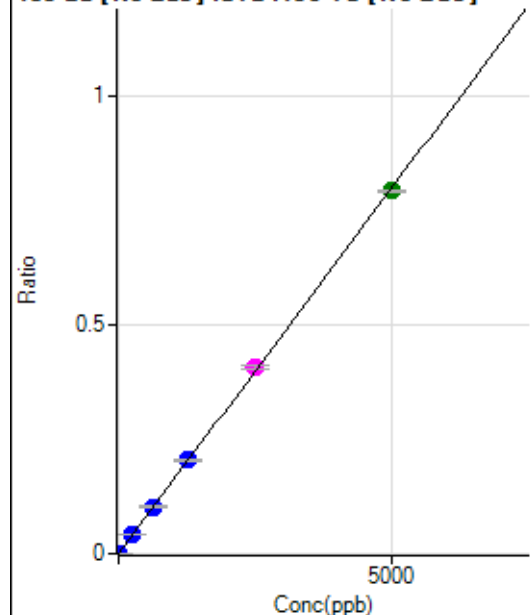
$$DL = 0.009595$$

$$BEC = 0.008729$$

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	50.7
2	☐	10.000	9.961	5987.62	0.0016	P	2.9
3	☐	250.000	257.661	153434.14	0.0411	P	3.0
4	☐	625.000	635.991	382416.69	0.1015	P	2.9
5	☐	1250.000	1283.959	778995.32	0.2048	P	1.8
6	☐	2500.000	2548.418	1551756.47	0.4066	M	2.7
7	☐	5000.000	4965.544	3139004.19	0.7922	A	0.8
8	☐			5720.81	0.0015	P	1.7

$$y = 1.5953\text{E-}004 * x + 4.5502\text{E-}006$$

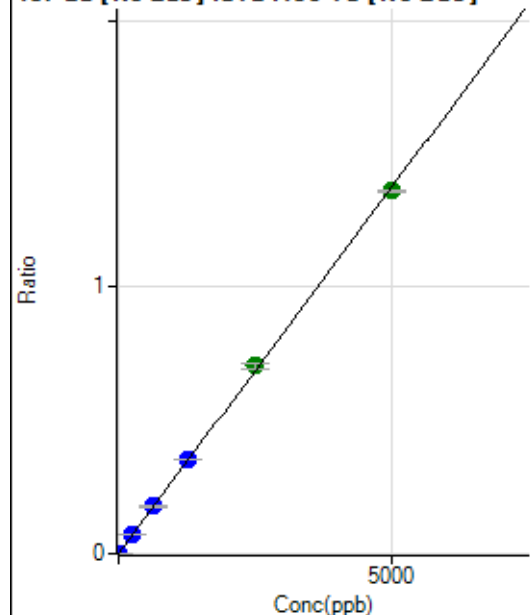
$$R = 0.9999$$

$$DL = 0.04336$$

$$BEC = 0.02852$$

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	75.00	0.0000	P	58.5
2	☐	10.000	9.578	9962.23	0.0027	P	1.0
3	☐	250.000	259.833	266423.25	0.0714	P	2.9
4	☐	625.000	649.028	671990.47	0.1783	P	2.5
5	☐	1250.000	1292.193	1349937.60	0.3549	P	0.8
6	☐	2500.000	2562.391	2685996.48	0.7038	A	3.6
7	☐	5000.000	4954.762	5392478.20	1.3609	A	0.5
8	☐			9820.45	0.0026	P	4.3

$$y = 2.7467E-004 * x + 2.0246E-005$$

$$R = 0.9998$$

$$DL = 0.1294$$

$$BEC = 0.07371$$

Weight: <None>

Min Conc: 0

150 Nd [No Gas] No available calibration points

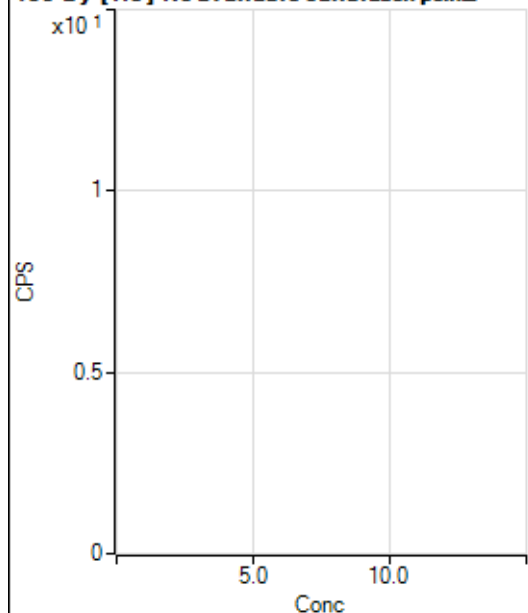
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			11.11		P	91.7
2	☐			8.89		P	86.6
3	☐			22.22		P	17.3
4	☐			35.55		P	10.8
5	☐			44.44		P	17.3
6	☐			75.56		P	5.1
7	☐			208.90		P	7.4
8	☐			11.11		P	69.3

150 Nd [He] No available calibration points

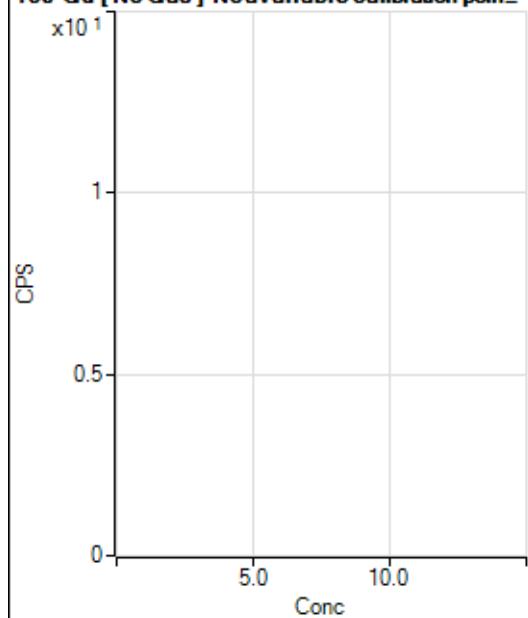
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			1.11		P	173.2
2	☐			0.00		P	
3	☐			0.00		P	
4	☐			1.11		P	173.2
5	☐			6.66		P	86.6
6	☐			4.44		P	43.4
7	☐			14.44		P	58.1
8	☐			2.22		P	86.6

156 Dy [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			16.67		P	NaN
2	☐			16.67		P	100.0
3	☐			11.11		P	43.3
4	☐			5.55		P	86.6
5	☐			36.11		P	58.1
6	☐			52.78		P	24.1
7	☐			111.11		P	8.7
8	☐			138.89		P	12.5

156 Dy [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			5.56		P	34.7
2	☐			4.44		P	114.6
3	☐			10.00		P	115.5
4	☐			10.00		P	66.7
5	☐			8.89		P	86.6
6	☐			20.00		P	76.4
7	☐			27.78		P	18.3
8	☐			86.67		P	24.0

160 Gd [No Gas] Noavailable calibration poin_

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			30.56		P	31.5
2	☐			50.00		P	28.9
3	☐			41.67		P	52.9
4	☐			41.67		P	40.0
5	☐			44.45		P	10.8
6	☐			86.11		P	20.1
7	☐			91.67		P	15.7
8	☐			194.45		P	17.3

160 Gd [He] No available calibration points

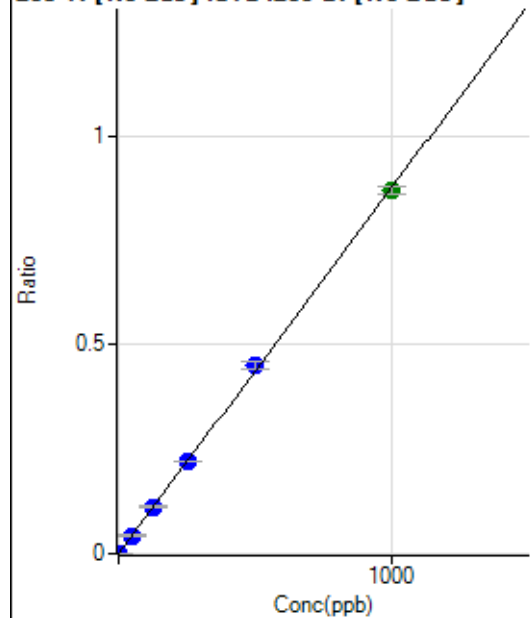
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			14.44		P	13.4
2	☐			11.11		P	62.5
3	☐			16.67		P	34.6
4	☐			14.44		P	66.6
5	☐			28.89		P	43.7
6	☐			21.11		P	24.1
7	☐			41.11		P	28.5
8	☐			90.00		P	13.4

164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			25.00		P	33.3
2	☐			27.78		P	34.6
3	☐			19.44		P	49.5
4	☐			36.11		P	13.3
5	☐			22.22		P	57.3
6	☐			27.78		P	45.8
7	☐			41.67		P	72.1
8	☐			36.11		P	48.0

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			5.56		P	91.6
2	☐			15.55		P	44.6
3	☐			10.00		P	57.7
4	☐			8.89		P	78.1
5	☐			14.45		P	48.0
6	☐			12.22		P	15.7
7	☐			15.56		P	53.9
8	☐			14.45		P	93.3

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	30.56	0.0000	P	41.4
2	☐	1.000	1.043	1844.63	0.0009	P	5.3
3	☐	50.000	49.559	86409.10	0.0434	P	1.8
4	☐	125.000	127.167	220188.33	0.1114	P	2.7
5	☐	250.000	252.752	443287.85	0.2214	P	0.9
6	☐	500.000	514.169	894417.28	0.4503	P	3.6
7	☐	1000.000	991.979	1807001.82	0.8688	A	2.0
8	☐			1486.24	0.0008	P	13.9

$$y = 8.7577E-004 * x + 1.5952E-005$$

$$R = 0.9998$$

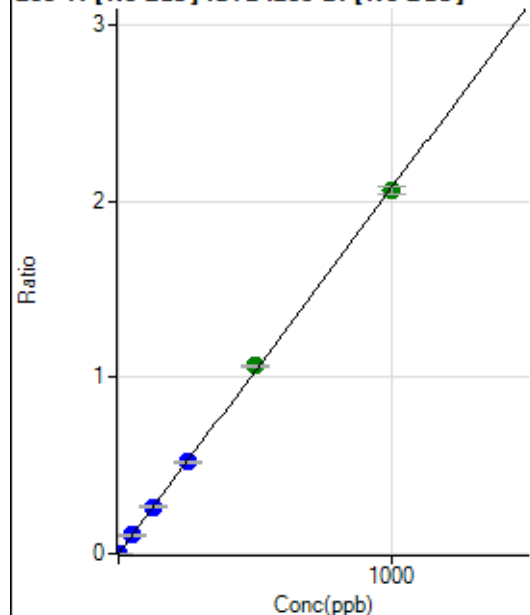
$$DL = 0.02262$$

$$BEC = 0.01821$$

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	63.89	0.0000	P	20.4
2	☐	1.000	0.947	3961.82	0.0020	P	5.5
3	☐	50.000	50.407	207889.04	0.1045	P	2.9
4	☐	125.000	127.702	523144.88	0.2646	P	2.9
5	☐	250.000	251.239	1042528.11	0.5206	P	1.1
6	☐	500.000	513.937	2115986.18	1.0650	A	1.3
7	☐	1000.000	992.364	4277141.81	2.0563	A	2.0
8	☐			3420.02	0.0018	P	3.1

$$y = 0.0021 * x + 3.3371E-005$$

$$R = 0.9999$$

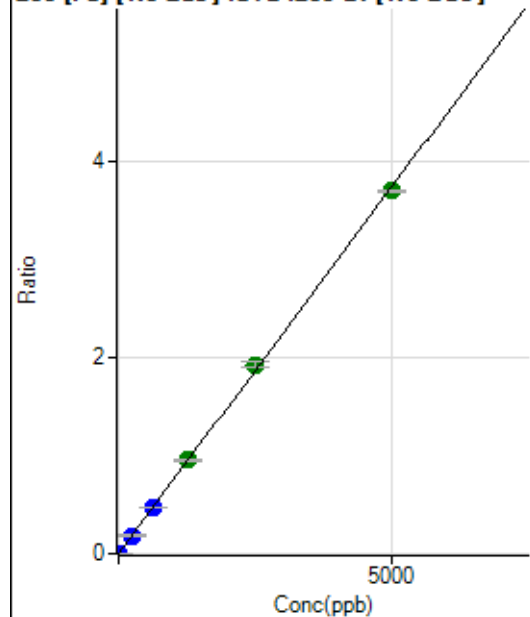
$$DL = 0.009871$$

$$BEC = 0.0161$$

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	305.57	0.0002	P	24.3
2	☐	1.000	0.841	1563.09	0.0008	P	4.6
3	☐	250.000	249.064	370218.91	0.1861	P	3.3
4	☐	625.000	634.596	936860.58	0.4739	P	2.3
5	☐	1250.000	1275.649	1907469.60	0.9524	A	0.8
6	☐	2500.000	2583.042	3830850.75	1.9284	A	2.3
7	☐	5000.000	4950.914	7687778.41	3.6960	A	0.7
8	☐			9212.70	0.0048	P	4.4

$$y = 7.4651E-004 * x + 1.5965E-004$$

$$R = 0.9998$$

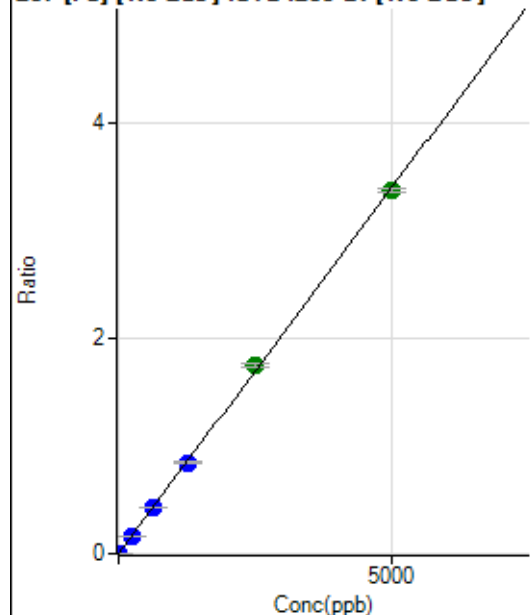
$$DL = 0.1559$$

$$BEC = 0.2139$$

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	270.38	0.0001	P	15.0
2	☐	1.000	0.816	1377.88	0.0007	P	5.7
3	☐	250.000	245.600	331500.02	0.1666	P	2.7
4	☐	625.000	627.073	840501.11	0.4252	P	2.5
5	☐	1250.000	1245.084	1690198.43	0.8440	P	0.7
6	☐	2500.000	2579.956	3474370.07	1.7488	A	1.6
7	☐	5000.000	4961.212	6994470.30	3.3628	A	1.1
8	☐			8034.12	0.0042	P	1.2

$$y = 6.7778E-004 * x + 1.4082E-004$$

$$R = 0.9998$$

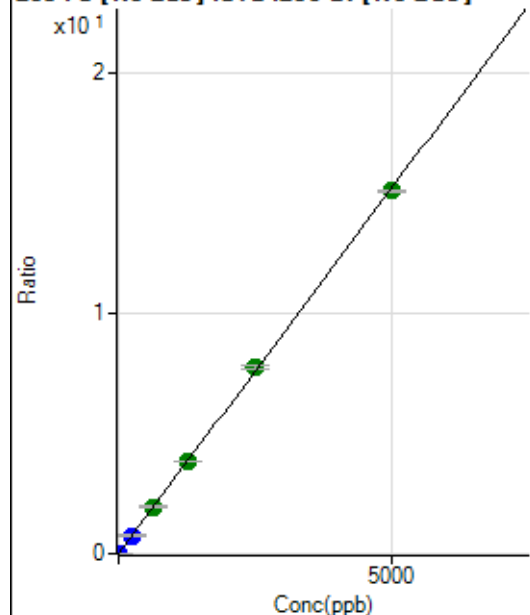
$$DL = 0.09362$$

$$BEC = 0.2078$$

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	1124.12	0.0006	P	5.1
2	☐	1.000	0.851	6293.31	0.0032	P	1.6
3	☐	250.000	247.867	1497248.08	0.7525	P	3.0
4	☐	625.000	638.129	3828436.30	1.9365	A	2.2
5	☐	1250.000	1263.272	7675907.94	3.8330	A	0.3
6	☐	2500.000	2558.265	15419413.08	7.7616	A	2.0
7	☐	5000.000	4966.015	31336986.58	15.0660	A	0.6
8	☐			36338.94	0.0190	P	1.7

$$y = 0.0030 * x + 5.8647E-004$$

$$R = 0.9999$$

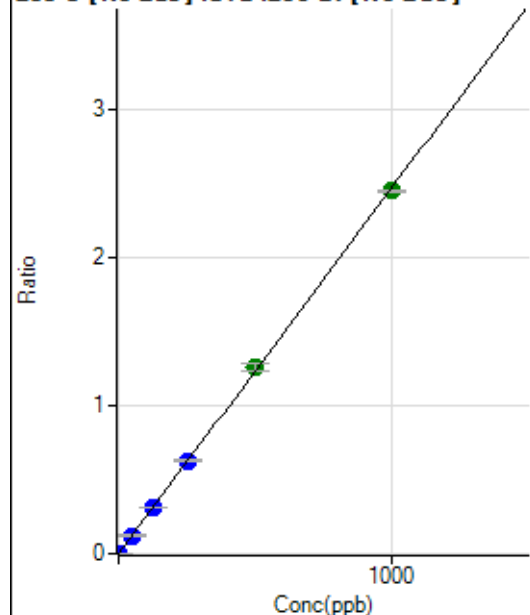
$$DL = 0.0298$$

$$BEC = 0.1933$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	22.22	0.0000	P	57.2
2	☐	1.000	0.906	4456.47	0.0022	P	4.4
3	☐	50.000	49.181	241098.59	0.1212	P	3.4
4	☐	125.000	126.814	617675.60	0.3125	P	3.1
5	☐	250.000	253.456	1250483.43	0.6245	P	1.7
6	☐	500.000	512.235	2506618.83	1.2621	A	4.3
7	☐	1000.000	992.833	5088411.14	2.4463	A	0.7
8	☐			900.06	0.0005	P	15.9

$$y = 0.0025 * x + 1.1625E-005$$

$$R = 0.9999$$

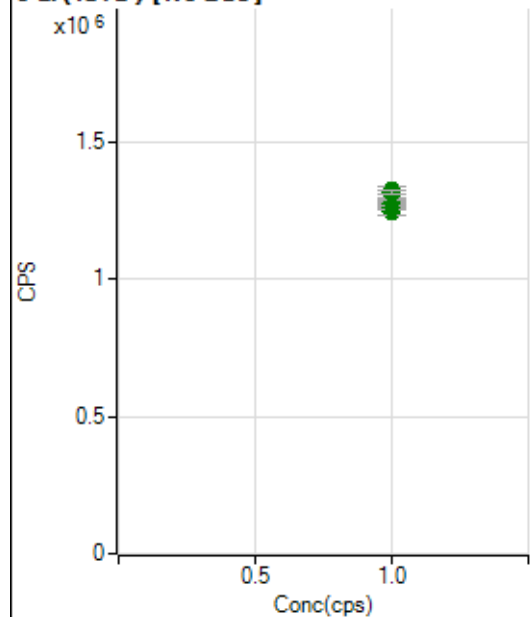
$$DL = 0.008093$$

$$BEC = 0.004718$$

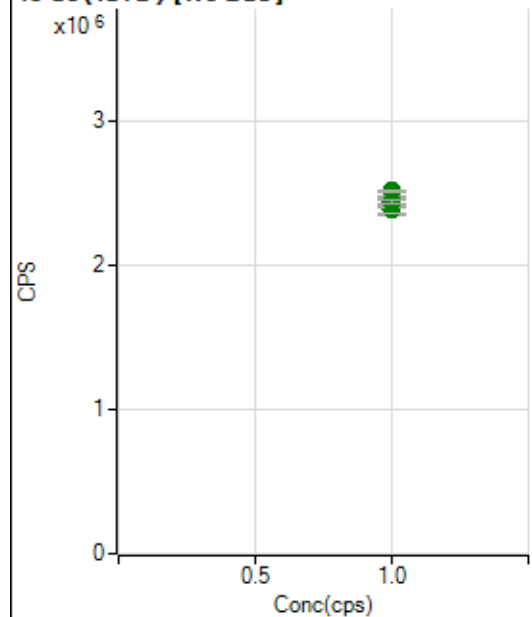
Weight: <None>

Min Conc: 0

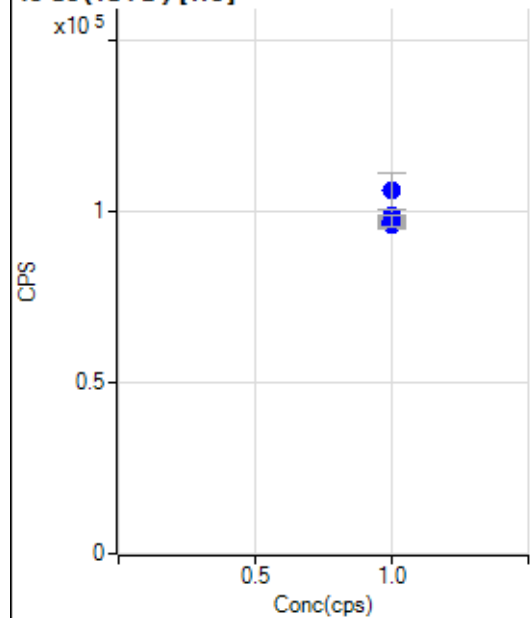
6 Li (ISTD) [No Gas]



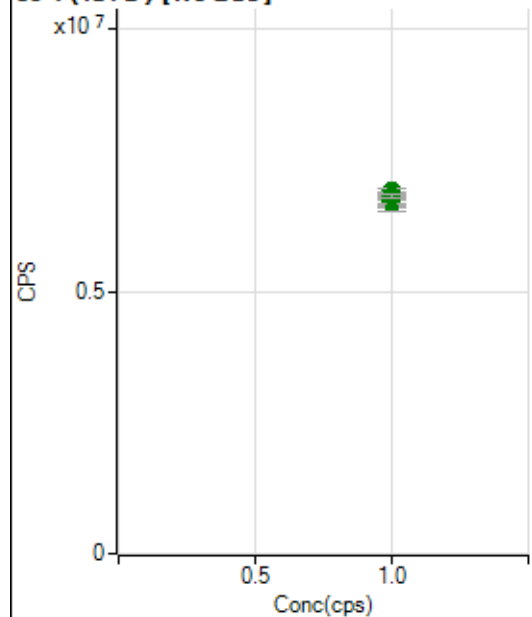
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		1247968.48		A	2.6
2	☐	1.000		1279417.87		A	1.0
3	☐	1.000		1263901.62		A	2.1
4	☐	1.000		1275623.13		A	1.8
5	☐	1.000		1274870.39		A	1.5
6	☐	1.000		1291798.74		A	0.4
7	☐	1.000		1321319.02		A	2.2
8	☐	1.000		1318337.22		A	0.9

45 Sc (ISTD) [No Gas]

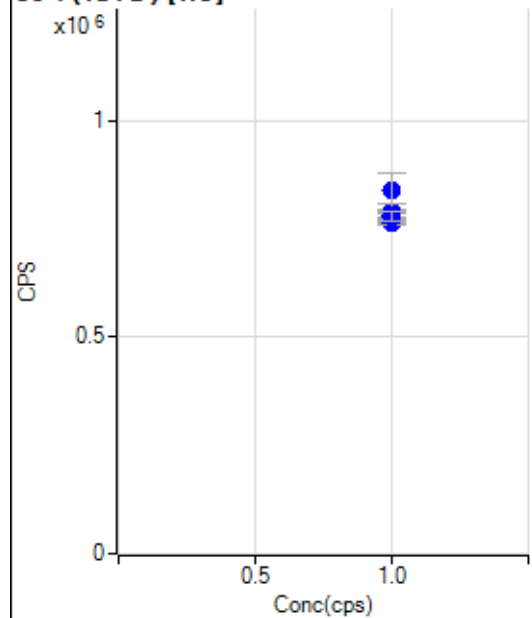
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		2398984.15		A	4.4
2	☐	1.000		2459480.92		A	0.8
3	☐	1.000		2390622.55		A	2.3
4	☐	1.000		2446674.77		A	3.1
5	☐	1.000		2425917.80		A	0.3
6	☐	1.000		2431487.50		A	2.6
7	☐	1.000		2518016.89		A	0.7
8	☐	1.000		2444303.05		A	1.1

45 Sc (ISTD) [He]

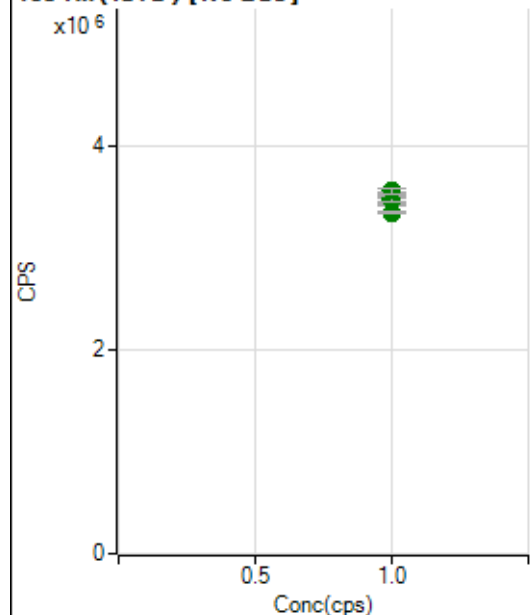
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		97425.03		P	1.2
2	☐	1.000		96464.17		P	0.8
3	☐	1.000		96020.32		P	1.6
4	☐	1.000		105945.79		P	10.3
5	☐	1.000		96660.06		P	2.8
6	☐	1.000		99040.66		P	3.4
7	☐	1.000		96392.82		P	2.9
8	☐	1.000		97255.33		P	3.2

89 Y (ISTD) [No Gas]

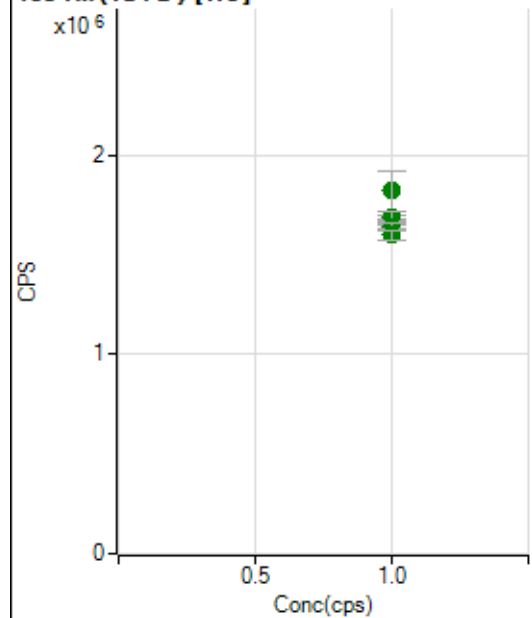
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		6680137.40		A	4.9
2	☐	1.000		6840812.46		A	1.5
3	☐	1.000		6722986.91		A	3.9
4	☐	1.000		6715046.22		A	2.3
5	☐	1.000		6753035.66		A	0.4
6	☐	1.000		6745205.25		A	2.6
7	☐	1.000		6916940.11		A	1.2
8	☐	1.000		6817205.59		A	0.8

89 Y (ISTD) [He]

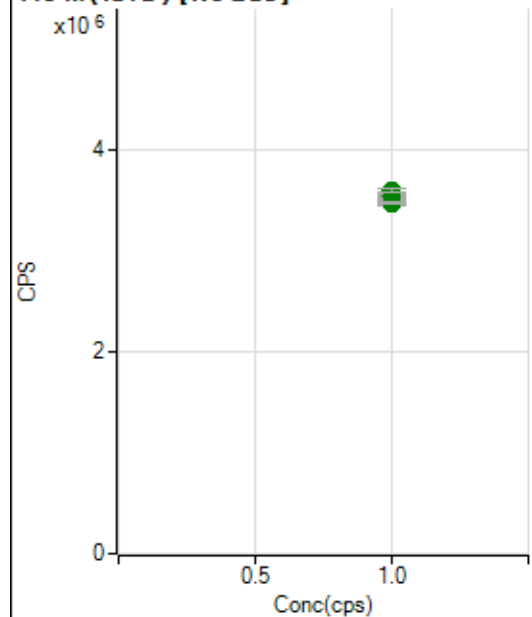
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		768581.91		P	1.0
2	☐	1.000		768906.04		P	0.9
3	☐	1.000		762883.65		P	1.6
4	☐	1.000		837247.39		P	10.3
5	☐	1.000		768595.01		P	2.1
6	☐	1.000		787808.60		P	4.5
7	☐	1.000		776180.53		P	2.5
8	☐	1.000		779253.61		P	2.6

103 Rh (ISTD) [No Gas]

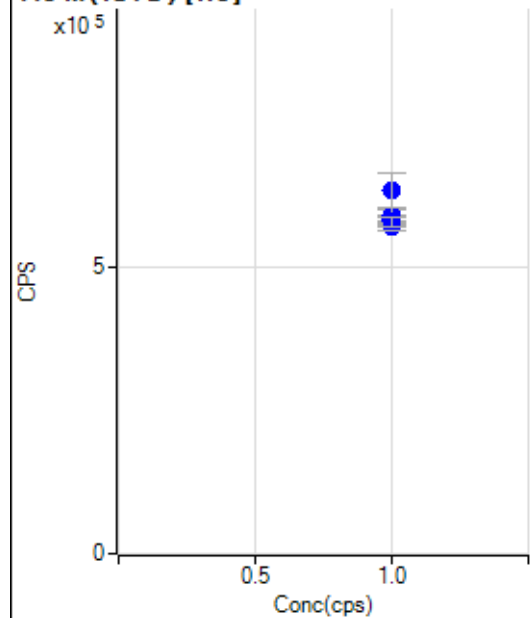
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		3487487.54		A	3.3
2	☐	1.000		3525239.14		A	0.3
3	☐	1.000		3495385.97		A	2.8
4	☐	1.000		3504300.30		A	2.5
5	☐	1.000		3478162.40		A	0.9
6	☐	1.000		3494421.48		A	1.6
7	☐	1.000		3567116.88		A	1.7
8	☐	1.000		3354384.02		A	0.6

103 Rh (ISTD) [He]

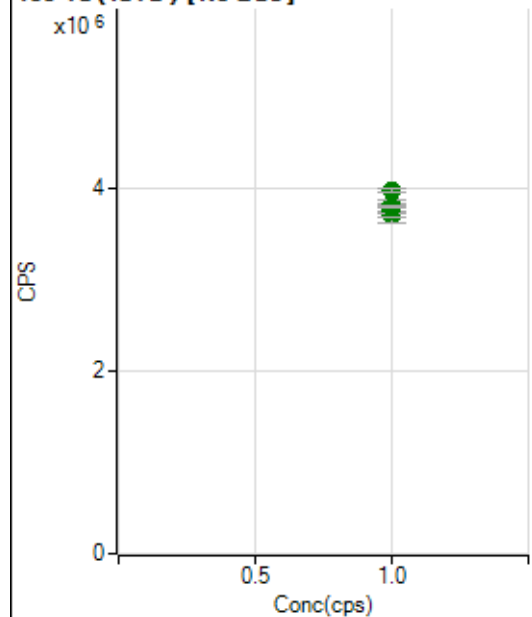
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		1680421.43		A	1.9
2	☐	1.000		1673642.94		A	0.8
3	☐	1.000		1633191.62		A	2.1
4	☐	1.000		1818913.84		A	10.8
5	☐	1.000		1662841.73		A	3.8
6	☐	1.000		1690610.08		A	3.0
7	☐	1.000		1642319.56		A	2.1
8	☐	1.000		1596974.34		A	3.2

115 In (ISTD) [No Gas]

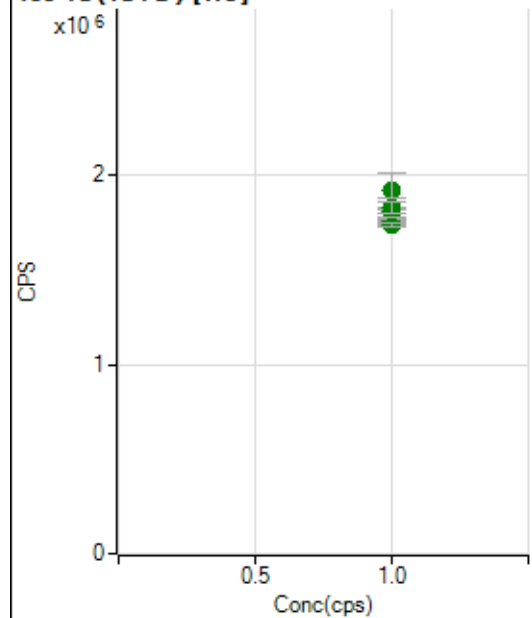
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		3519528.81		A	3.7
2	☐	1.000		3545420.90		A	0.8
3	☐	1.000		3538454.43		A	4.5
4	☐	1.000		3540884.88		A	2.8
5	☐	1.000		3564989.04		A	1.4
6	☐	1.000		3544873.70		A	1.8
7	☐	1.000		3602077.62		A	1.2
8	☐	1.000		3476712.83		A	0.6

115 In (ISTD) [He]

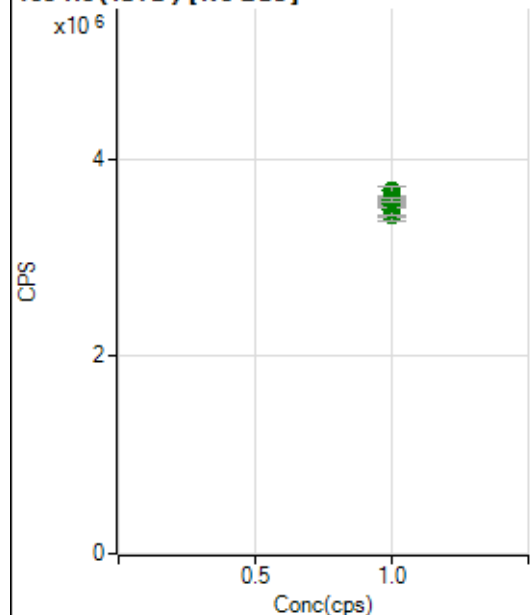
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		586564.83		P	1.7
2	☐	1.000		584810.92		P	0.9
3	☐	1.000		576429.40		P	1.5
4	☐	1.000		635006.39		P	10.4
5	☐	1.000		583149.38		P	3.1
6	☐	1.000		593477.27		P	4.1
7	☐	1.000		571606.51		P	2.3
8	☐	1.000		581104.10		P	3.0

159 Tb (ISTD) [No Gas]

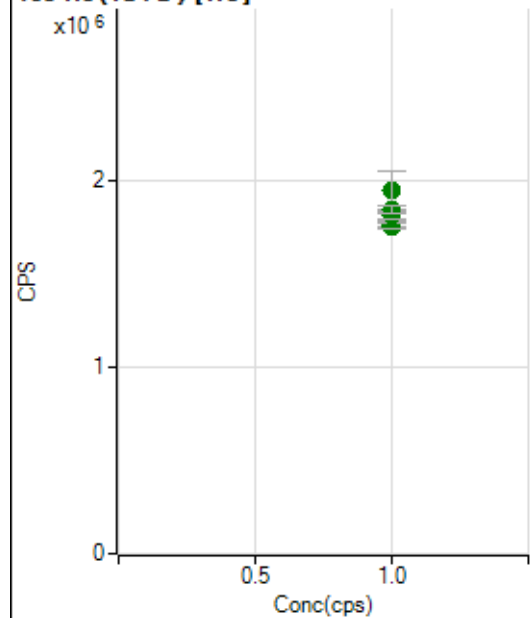
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		3693584.98		A	4.6
2	☐	1.000		3758133.70		A	1.0
3	☐	1.000		3734588.00		A	3.5
4	☐	1.000		3770814.98		A	2.6
5	☐	1.000		3803402.31		A	0.8
6	☐	1.000		3818380.39		A	2.4
7	☐	1.000		3962455.84		A	1.0
8	☐	1.000		3785780.95		A	0.8

159 Tb (ISTD) [He]

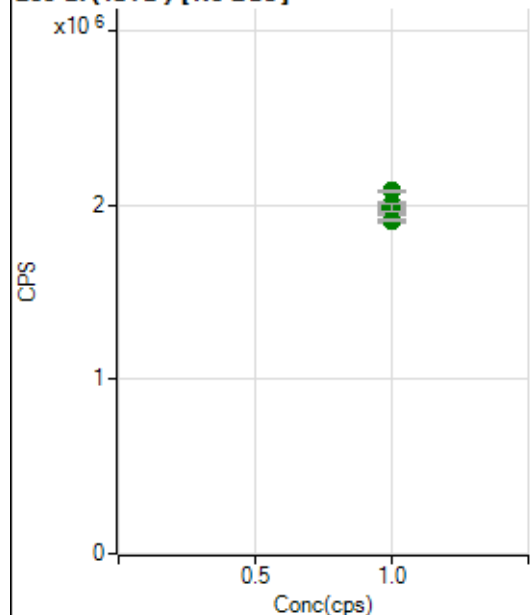
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		1765923.48		A	1.3
2	☐	1.000		1753182.40		A	1.8
3	☐	1.000		1736964.35		A	1.2
4	☐	1.000		1915823.34		A	10.0
5	☐	1.000		1792968.74		A	2.8
6	☐	1.000		1826681.12		A	5.8
7	☐	1.000		1805779.92		A	2.9
8	☐	1.000		1826624.76		A	3.3

165 Ho (ISTD) [No Gas]

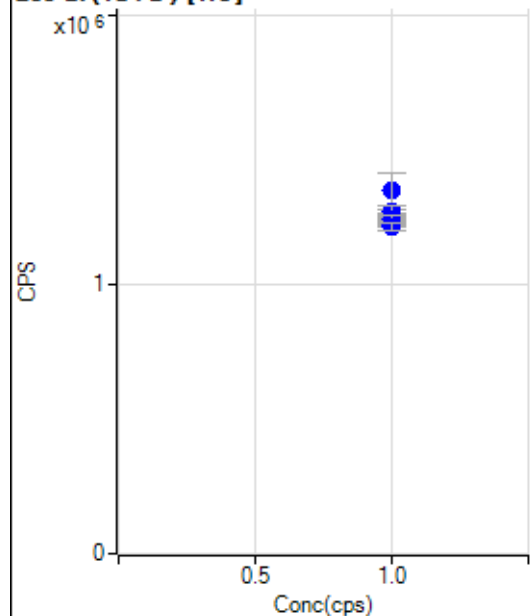
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		3433071.41		A	3.9
2	☐	1.000		3528497.56		A	0.8
3	☐	1.000		3487115.18		A	4.2
4	☐	1.000		3482779.81		A	3.2
5	☐	1.000		3540409.24		A	0.7
6	☐	1.000		3551419.96		A	2.0
7	☐	1.000		3675228.56		A	2.6
8	☐	1.000		3585649.34		A	1.5

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		1762607.96		A	1.8
2	☐	1.000		1768264.11		A	1.3
3	☐	1.000		1757232.27		A	2.2
4	☐	1.000		1945347.29		A	10.8
5	☐	1.000		1798484.73		A	3.1
6	☐	1.000		1814473.18		A	3.4
7	☐	1.000		1812745.72		A	2.0
8	☐	1.000		1845425.70		A	2.6

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		1916724.35		A	2.0
2	☐	1.000		1985486.08		A	0.7
3	☐	1.000		1990777.56		A	3.0
4	☐	1.000		1977815.26		A	2.8
5	☐	1.000		2002653.27		A	1.5
6	☐	1.000		1987184.71		A	2.1
7	☐	1.000		2079999.68		A	0.2
8	☐	1.000		1909958.32		A	0.3

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		1231504.24		P	1.8
2	☐	1.000		1225370.44		P	1.0
3	☐	1.000		1221558.20		P	1.7
4	☐	1.000		1346981.09		P	9.8
5	☐	1.000		1244671.24		P	2.7
6	☐	1.000		1268593.52		P	3.4
7	☐	1.000		1242197.65		P	2.3
8	☐	1.000		1213430.77		P	2.6

US EPA Tune Check Report

Operator Name Jaswal
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\P8120920ICP.b
Acq. Date-Time 2020-12-09 10:54:21
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		2139	21390.35			1.754	5.000
24		32966	329659.79			1.425	5.000
25		4428	44281.20			1.393	5.000
26		4836	48360.15			1.447	5.000
59		14345	143445.12			1.200	5.000
113		2195	21952.84			1.732	5.000
115		7624	76235.12			4.109	5.000
206		2197	21967.66			1.972	5.000
207		1838	18379.15			2.180	5.000
208		4493	44931.42			2.107	5.000
220		1	9.40			11.532	

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

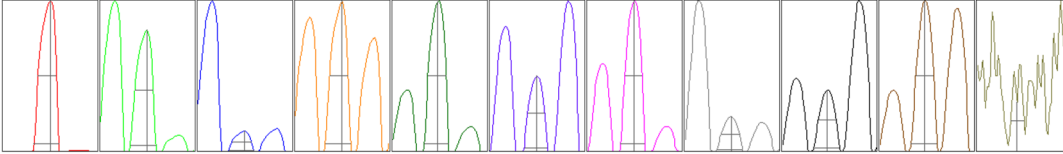
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	2104	2122	2202	2127	2139
24	32437	32650	33462	32828	33454
25	4378	4355	4489	4430	4489
26	4754	4822	4947	4817	4840
59	14111	14331	14597	14346	14339
113	2193	2190	2259	2176	2159
115	8035	7733	7732	7336	7282
206	2154	2160	2247	2185	2238
207	1788	1825	1898	1832	1847
208	4385	4487	4631	4432	4530

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	3854.94	9.05	8.90 - 9.10	
24	59801.18	24.00	23.90 - 24.10	
25	7805.55	25.00	24.90 - 25.10	
26	8776.36	26.00	25.90 - 26.10	
59	26179.64	58.95	58.90 - 59.10	
113	4250.81	113.00	112.90 - 113.10	
115	14566.43	115.00	114.90 - 115.10	
206	4010.24	206.00	205.90 - 206.10	
207	3340.75	206.95	206.90 - 207.10	
208	8266.08	207.95	207.90 - 208.10	
220	0.85	219.80	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.59	0.775	0.900	
24	0.59	0.816	0.900	
25	0.61	0.785	0.900	
26	0.59	0.814	0.900	
59	0.58	0.769	0.900	
113	0.54	0.735	0.900	
115	0.54	0.769	0.900	
206	0.57	0.813	0.900	
207	0.57	0.821	0.900	
208	0.57	0.825	0.900	
220	0.43			

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	10.3 V	Deflect	15.0 V
Extract 2	-215.0 V	Cell Entrance	-30 V	Plate Bias	-50 V
Omega Bias	-110 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	4.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	---	OctP RF	170 V		

QP Parameters

Mass Gain	121	Axis Gain	0.9991	QP Bias	-4.0 V
Mass Offset	125	Axis Offset	-0.02		

Hardware Settings

Torch

Torch H	0.6 mm	Torch V	-0.5 mm
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EM

Discriminator	3.9 mV	Analog HV	2180 V	Pulse HV	1352 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		3309	33091.71			3.691	
89		7603	76029.57			3.915	
205		6015	60149.26			3.418	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	3372	3332	3358	3094	3390
89	7746	7554	7711	7115	7890
205	6095	6014	6053	5679	6234

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	10.3 V	Deflect	4.8 V
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US EPA Tune Check Report

Extract 2	-215.0 V	Cell Entrance	-50 V	Plate Bias	-60 V
Omega Bias	-110 V	Cell Exit	-70 V		
Cell Parameters					
Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	4.5 mL/min	OctP Bias	-18.0 V		
H2 Flow	---	OctP RF	200 V		
QP Parameters					
Mass Gain	121	Axis Gain	0.9991	QP Bias	-13.0 V
Mass Offset	125	Axis Offset	-0.02		
Hardware Settings					
Torch					
Torch H	0.6 mm	Torch V	-0.5 mm		
EM					
Discriminator	3.9 mV	Analog HV	2180 V	Pulse HV	1352 V