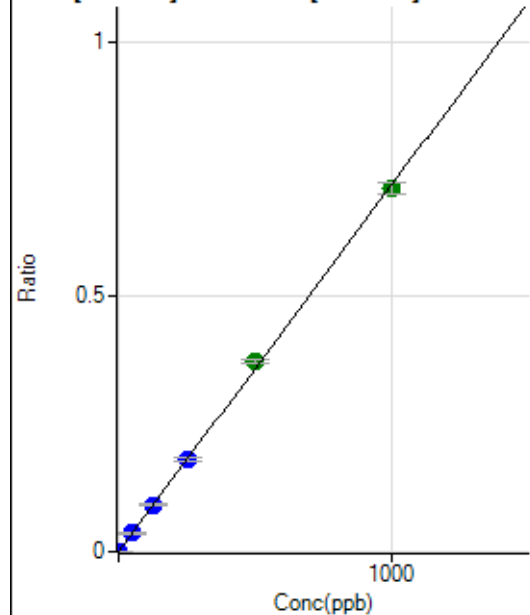


Batch Folder: D:\Agilent\ICPMH\1\DATA\P8102421-MS.b\
Analysis File: P8102421-MS.batch.bin
DA Date-Time: 2021-10-25 00:26:50
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	003CALB.d	S00	2021-10-24 12:42:49
2	005CALS.d	S02	2021-10-24 12:48:59
3	006CALS.d	S03	2021-10-24 12:52:04
4	007CALS.d	S04	2021-10-24 12:55:08
5	008CALS.d	S05	2021-10-24 12:58:13
6	009CALS.d	S06	2021-10-24 13:01:17
7	010CALS.d	S07	2021-10-24 13:04:22
8	011CALS.d	S08	2021-10-24 13:07:26

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	77.99	0.0000	P	9.4
2	☐	1.000	1.054	3132.39	0.0008	P	1.6
3	☐	50.000	50.356	148551.43	0.0362	P	2.9
4	☐	125.000	126.842	367292.01	0.0911	P	2.8
5	☐	250.000	252.706	737977.58	0.1815	P	3.0
6	☐	500.000	518.456	1512187.03	0.3723	A	1.5
7	☐	1000.000	989.847	2833597.52	0.7108	A	3.3
8	☐			782.54	0.0002	P	3.7

$$y = 7.1812\text{E-}004 * x + 1.9938\text{E-}005$$

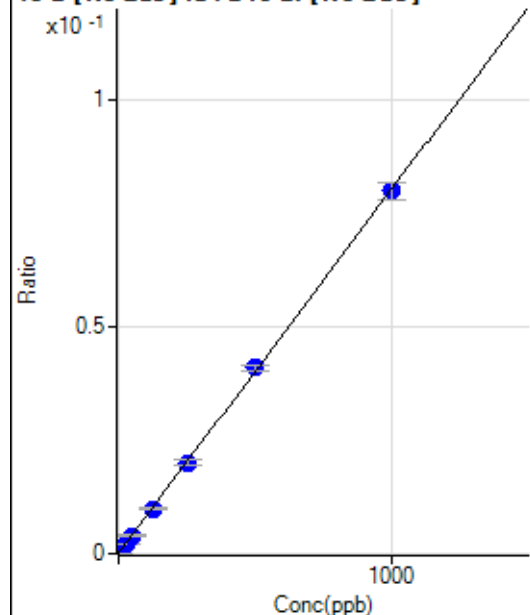
$$R = 0.9997$$

$$DL = 0.007801$$

$$BEC = 0.02776$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	375.94	0.0001	P	7.8
2	☐	25.000	24.986	8463.46	0.0021	P	4.5
3	☐	50.000	48.985	16528.75	0.0040	P	5.9
4	☐	125.000	122.765	40106.15	0.0099	P	2.6
5	☐	250.000	248.351	81326.99	0.0200	P	5.7
6	☐	500.000	510.115	166520.91	0.0410	P	3.0
7	☐	1000.000	995.685	318519.03	0.0799	P	4.8
8	☐			23388.76	0.0060	P	8.0

$$y = 8.0173\text{E-}005 * x + 9.6046\text{E-}005$$

$$R = 0.9999$$

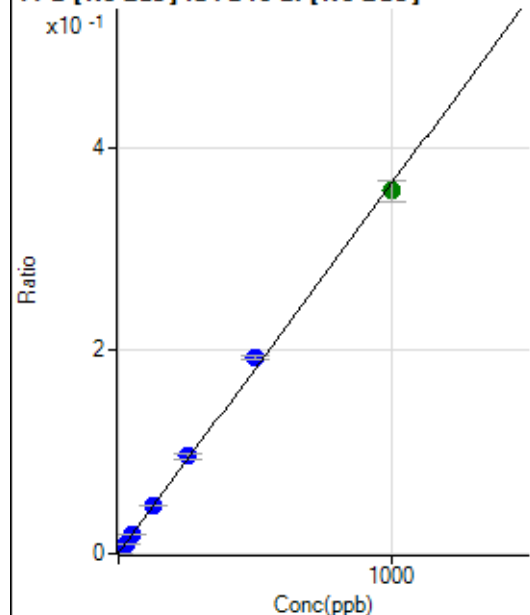
$$DL = 0.2788$$

$$BEC = 1.198$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	1831.76	0.0005	P	4.9
2	☐	25.000	25.920	39911.68	0.0099	P	4.9
3	☐	50.000	51.178	78399.05	0.0191	P	3.1
4	☐	125.000	128.828	190993.71	0.0473	P	1.5
5	☐	250.000	262.509	390158.78	0.0960	P	5.4
6	☐	500.000	530.769	786286.37	0.1936	P	2.5
7	☐	1000.000	980.928	1423817.96	0.3574	A	6.1
8	☐			109065.78	0.0280	P	8.4

$$y = 3.6384\text{E-}004 * x + 4.6890\text{E-}004$$

$$R = 0.9992$$

$$DL = 0.1885$$

$$BEC = 1.289$$

Weight: <None>

Min Conc: 0

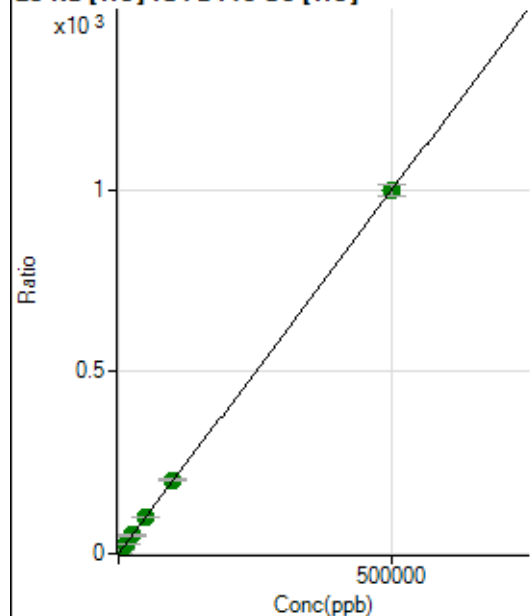
12 C [No Gas] No available calibration points



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐			5189968.04		A	3.4
2	☐			5298419.65		A	0.5
3	☐			5953671.01		A	0.6
4	☐			5705659.63		A	3.7
5	☐			5699702.52		A	1.6
6	☐			5833788.02		A	1.1
7	☐			6057825.14		A	0.9
8	☐			5343369.74		A	0.9

12 C [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			50771.83		P	1.6
2	☐			52884.85		P	0.9
3	☐			60433.64		P	0.6
4	☐			57309.82		P	1.9
5	☐			58199.49		P	2.2
6	☐			60693.14		P	1.9
7	☐			64252.54		P	2.2
8	☐			65039.46		P	2.5

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	24501.74	0.0954	P	2.4
2	☐	500.000	515.716	291954.75	1.1246	P	0.7
3	☐	5000.000	5159.582	2678930.33	10.3919	A	1.9
4	☐	12500.000	12906.697	6644932.09	25.8521	A	1.0
5	☐	25000.000	25175.445	13043811.14	50.3357	A	2.7
6	☐	50000.000	51316.159	26580687.40	102.5022	A	0.7
7	☐	100000.00	101384.09	50950840.37	202.4180	A	2.5
8	☐	500000.00	499571.01	252284986.2	997.0418	A	3.0

$$y = 0.0020 * x + 0.0954$$

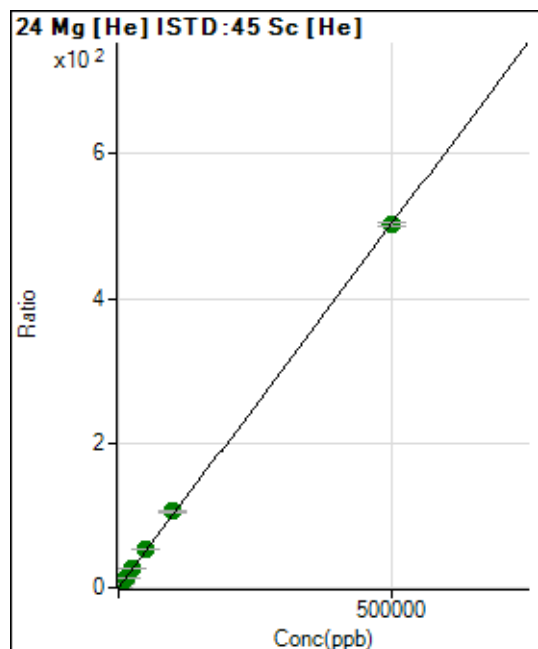
$$R = 1.0000$$

$$DL = 3.483$$

$$BEC = 47.83$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	572.25	0.0022	P	28.1
2	☐	500.000	517.626	135717.73	0.5228	P	0.8
3	☐	5000.000	5455.349	1415175.43	5.4886	A	0.4
4	☐	12500.000	13249.702	3425813.79	13.3273	A	0.5
5	☐	25000.000	25989.421	6773227.84	26.1396	A	4.1
6	☐	50000.000	52457.093	13681461.94	52.7579	A	1.2
7	☐	100000.00	104524.70	26460040.00	105.1218	A	1.4
8	☐	500000.00	498776.56	126920908.3	501.6177	A	1.2

$$y = 0.0010 * x + 0.0022$$

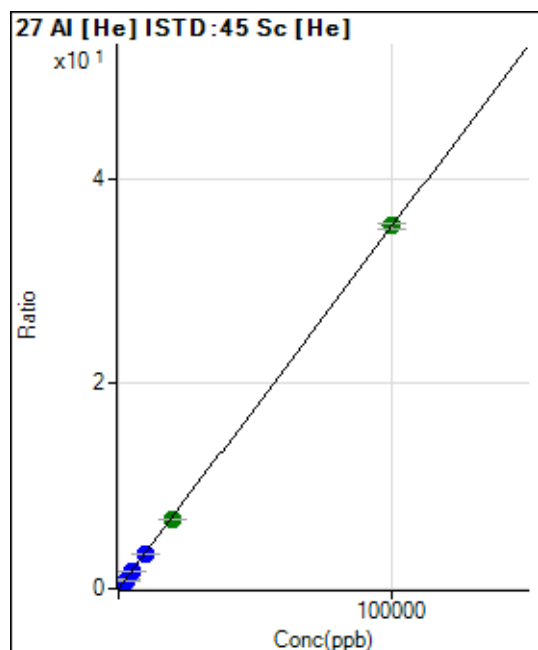
$$R = 1.0000$$

$$DL = 1.864$$

$$BEC = 2.213$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	159.15	0.0006	P	4.3
2	☐	20.000	20.773	2063.64	0.0079	P	1.3
3	☐	1000.000	975.375	88896.88	0.3448	P	0.2
4	☐	2500.000	2383.926	216386.50	0.8418	P	0.9
5	☐	5000.000	4730.152	432661.10	1.6697	P	3.0
6	☐	10000.000	9502.429	869624.86	3.3536	P	1.1
7	☐	20000.000	19316.160	1715720.25	6.8165	A	0.3
8	☐	100000.00	100203.16	8946359.22	35.3583	A	1.7

$$y = 3.5286E-004 * x + 6.1994E-004$$

$$R = 1.0000$$

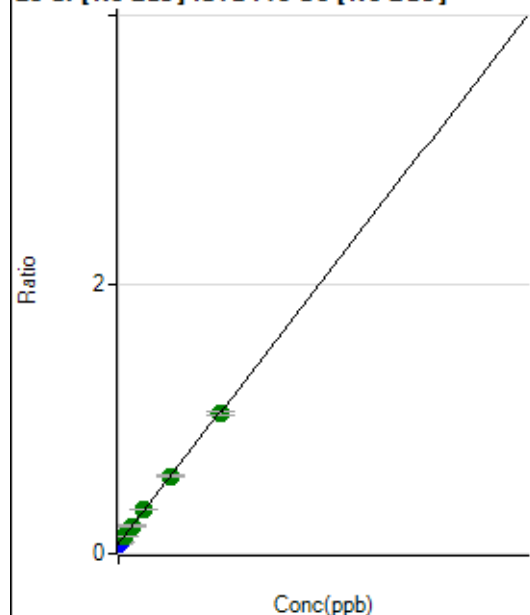
$$DL = 0.2269$$

$$BEC = 1.757$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	604457.43	0.0748	P	2.4
2	☐	10.000	14.394	717537.26	0.0889	P	2.5
3	☐	50.000	55.971	1091552.47	0.1297	A	2.4
4	☐	125.000	135.163	1691020.38	0.2074	A	0.3
5	☐	250.000	260.537	2732321.26	0.3303	A	2.1
6	☐	500.000	511.775	4838889.39	0.5768	A	2.9
7	☐	1000.000	989.866	8463693.24	1.0458	A	2.3
8	☐			989215.12	0.1226	A	3.2

$$y = 9.8090E-004 * x + 0.0748$$

$$R = 0.9998$$

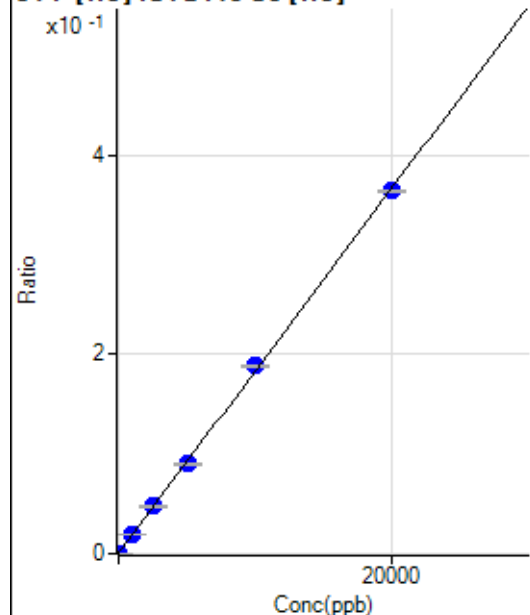
$$DL = 5.416$$

$$BEC = 76.24$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	-4.027	88.89	0.0003	P	55.9
2	☐	0.000	4.027	127.78	0.0005	P	11.3
3	☐	1000.000	1076.591	5189.97	0.0201	P	0.9
4	☐	2500.000	2575.852	12233.27	0.0476	P	6.2
5	☐	5000.000	4885.811	23291.54	0.0899	P	2.5
6	☐	10000.000	10272.793	48883.35	0.1885	P	0.7
7	☐	20000.000	19878.839	91715.25	0.3644	P	0.9
8	☐			138.90	0.0005	P	40.8

$$y = 1.8309E-005 * x + 4.1897E-004$$

$$R = 0.9998$$

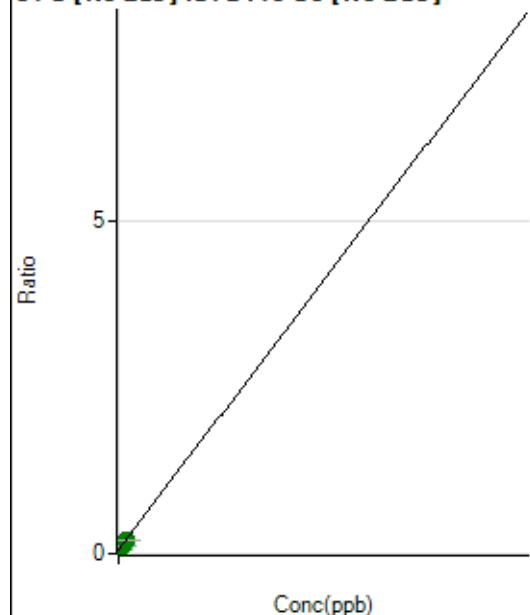
$$DL = 20.39$$

$$BEC = 22.88$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	-46.519	483219.44	0.0598	P	2.3
2	☐	0.000	46.519	487672.31	0.0604	P	1.7
3	☐	1000.000	1023.704	564479.03	0.0671	P	0.3
4	☐	2500.000	3191.576	666899.31	0.0818	P	0.8
5	☐	5000.000	6317.610	852206.24	0.1030	P	0.2
6	☐	10000.000	9685.151	1056280.58	0.1259	A	1.7
7	☐	20000.000	19740.390	1572084.74	0.1942	A	1.3
8	☐			429190.89	0.0532	P	2.8

$$y = 6.7939E-006 * x + 0.0601$$

R = 0.9969

DL = 519.9

BEC = 8846

Weight: <None>

Min Conc: 0

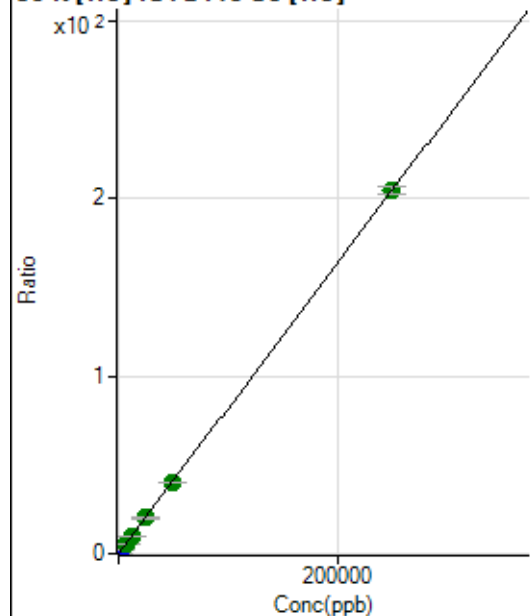
35 Cl [No Gas] No available calibration points



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			485113.03		P	1.9
2	☐			448026.14		P	2.1
3	☐			427087.14		P	0.3
4	☐			402544.74		P	0.9
5	☐			395393.16		P	2.2
6	☐			386029.92		P	1.2
7	☐			381644.88		P	1.7
8	☐			371273.20		P	2.5

35 Cl [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			3281.02		P	3.6
2	☐			3053.19		P	6.0
3	☐			2722.55		P	6.5
4	☐			2569.75		P	8.5
5	☐			2386.37		P	5.1
6	☐			2405.82		P	3.8
7	☐			2458.61		P	5.5
8	☐			2247.45		P	1.7

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	22092.40	0.0861	P	2.6
2	☐	500.000	495.009	127301.01	0.4905	P	2.5
3	☐	2500.000	2532.845	555663.27	2.1552	P	0.7
4	☐	6250.000	6363.901	1358414.04	5.2850	A	2.4
5	☐	12500.000	12392.110	2646210.48	10.2097	A	1.0
6	☐	25000.000	24656.072	5245284.66	20.2286	A	1.8
7	☐	50000.000	49277.026	10154111.51	40.3425	A	0.7
8	☐	250000.00	250181.21	51728358.10	204.4696	A	2.0

$$y = 8.1694\text{E-}004 * x + 0.0861$$

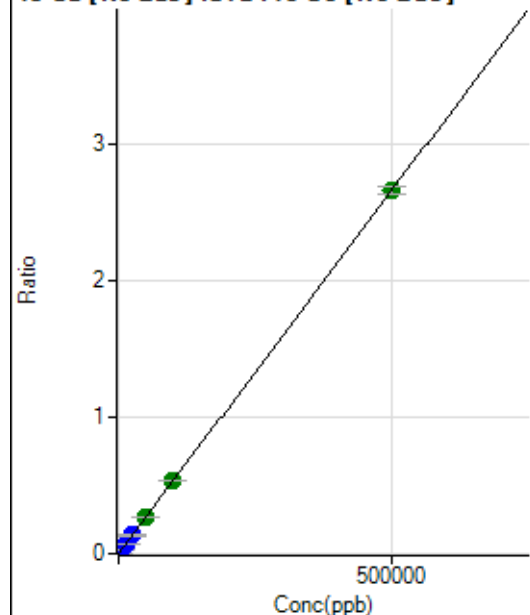
$$R = 1.0000$$

$$DL = 8.171$$

$$BEC = 105.3$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	382.04	0.0000	P	0.4
2	☐	500.000	497.592	21719.07	0.0027	P	1.6
3	☐	5000.000	4949.451	221731.53	0.0263	P	0.7
4	☐	12500.000	12503.975	542035.38	0.0665	P	1.3
5	☐	25000.000	25278.961	1111169.31	0.1343	P	1.9
6	☐	50000.000	51209.641	2283026.45	0.2721	A	1.3
7	☐	100000.00	100213.85	4309845.08	0.5324	A	1.3
8	☐	500000.00	499822.72	21422199.14	2.6554	A	2.2

$$y = 5.3126\text{E-}006 * x + 4.7251\text{E-}005$$

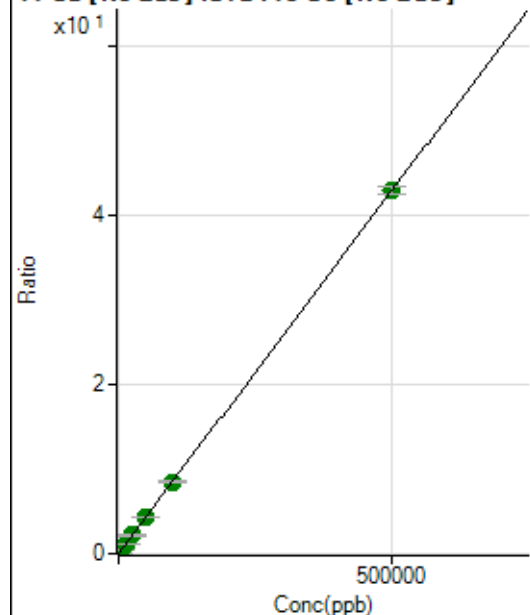
$$R = 1.0000$$

$$DL = 0.1128$$

$$BEC = 8.894$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	36389.71	0.0045	P	2.7
2	☐	500.000	499.933	382284.72	0.0474	P	1.8
3	☐	5000.000	5004.983	3650040.13	0.4336	A	1.7
4	☐	12500.000	12644.304	8874055.86	1.0885	A	3.4
5	☐	25000.000	25171.801	17887663.86	2.1625	A	0.5
6	☐	50000.000	49416.914	35581918.99	4.2410	A	0.8
7	☐	100000.00	99042.910	68769020.65	8.4954	A	1.0
8	☐	500000.00	500237.47	346001123.7	42.8898	A	2.0

$$y = 8.5730\text{E-}005 * x + 0.0045$$

$$R = 1.0000$$

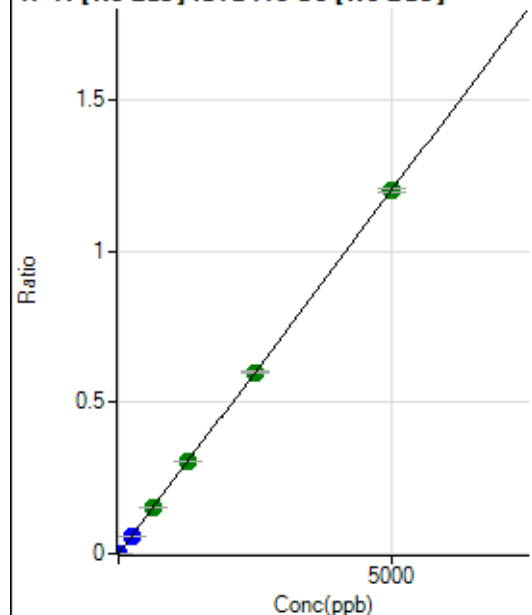
$$DL = 4.25$$

$$BEC = 52.52$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	263.90	0.0000	P	20.1
2	☐	5.000	5.174	10298.44	0.0013	P	3.2
3	☐	250.000	249.546	505077.97	0.0600	P	0.8
4	☐	625.000	641.499	1257264.97	0.1542	A	1.7
5	☐	1250.000	1266.718	2518218.37	0.3044	A	1.2
6	☐	2500.000	2499.896	5040675.81	0.6008	A	1.4
7	☐	5000.000	4993.833	9715221.22	1.2001	A	1.2
8	☐			2942.07	0.0004	P	12.3

$$y = 2.4032E-004 * x + 3.2564E-005$$

$$R = 1.0000$$

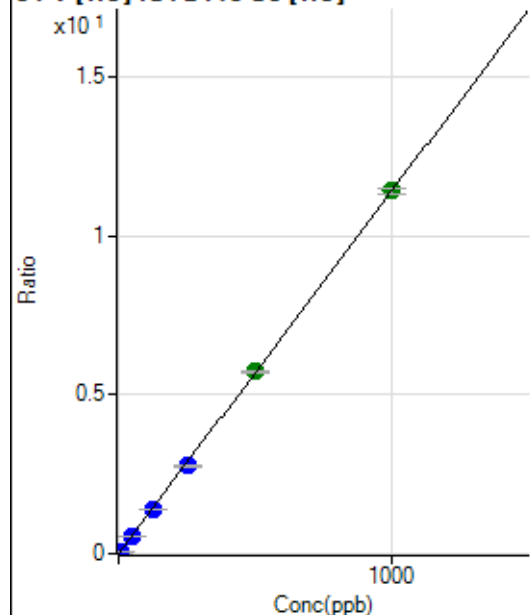
$$DL = 0.08156$$

$$BEC = 0.1355$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	7.78	0.0000	P	66.3
2	☐	5.000	5.051	14943.47	0.0576	P	1.1
3	☐	50.000	49.379	145001.85	0.5624	P	0.5
4	☐	125.000	121.997	357137.75	1.3894	P	2.0
5	☐	250.000	242.346	715259.40	2.7600	P	2.2
6	☐	500.000	501.774	1481805.99	5.7145	A	1.3
7	☐	1000.000	1001.433	2870537.77	11.4049	A	1.4
8	☐			758.92	0.0030	P	5.6

$$y = 0.0114 * x + 3.0383E-005$$

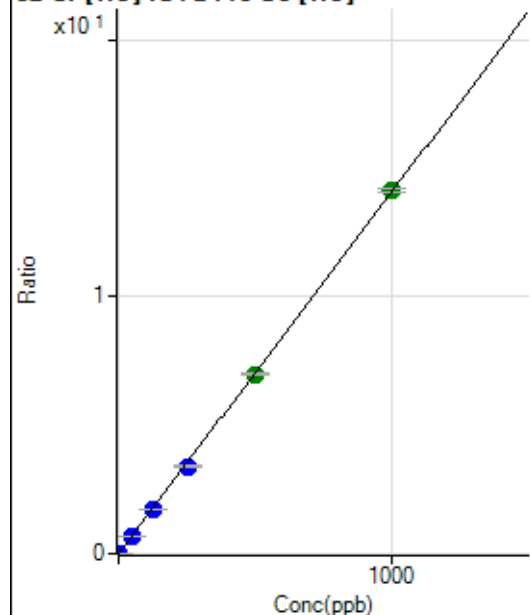
$$R = 1.0000$$

$$DL = 0.005303$$

$$BEC = 0.002668$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	976.71	0.0038	P	8.2
2	☐	2.000	2.053	8481.49	0.0327	P	0.4
3	☐	50.000	49.400	180004.37	0.6982	P	1.5
4	☐	125.000	121.825	441182.99	1.7163	P	0.5
5	☐	250.000	241.633	881162.14	3.4005	P	3.0
6	☐	500.000	497.087	1812947.99	6.9915	A	0.6
7	☐	1000.000	1003.975	3553175.71	14.1170	A	1.2
8	☐			12789.16	0.0506	P	3.7

$$y = 0.0141 * x + 0.0038$$

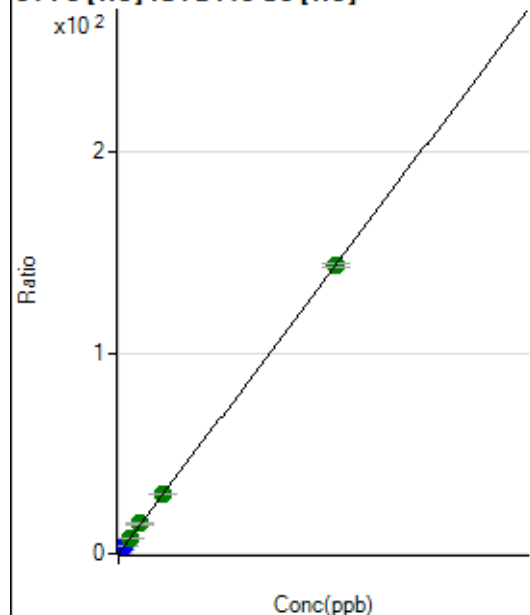
$$R = 1.0000$$

$$DL = 0.06656$$

$$BEC = 0.2706$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	712.99	0.0028	P	14.2
2	☐	50.000	53.302	8671.31	0.0334	P	3.2
3	☐	2500.000	2645.562	392704.35	1.5232	P	1.0
4	☐	6250.000	6495.721	960281.10	3.7358	P	0.6
5	☐	12500.000	13213.559	1968523.18	7.5966	A	3.0
6	☐	25000.000	25830.692	3850184.17	14.8476	A	0.3
7	☐	50000.000	51807.574	7494697.22	29.7764	A	0.6
8	☐	250000.00	249512.13	36286574.65	143.3964	A	1.5

$$y = 5.7470E-004 * x + 0.0028$$

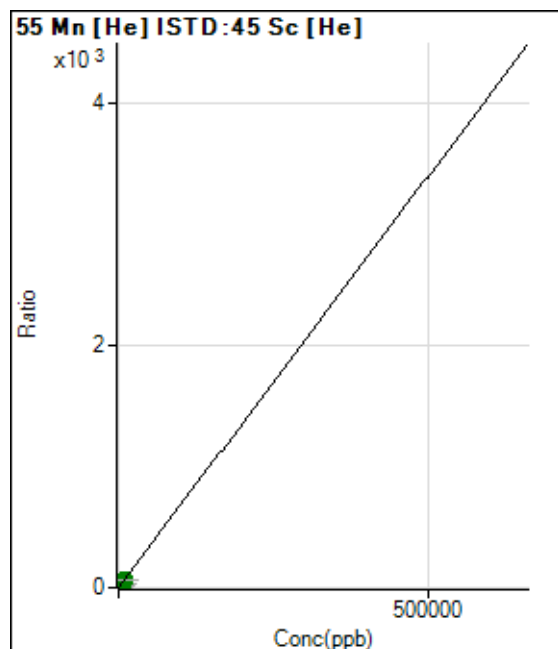
$$R = 1.0000$$

$$DL = 2.053$$

$$BEC = 4.831$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	135.56	0.0005	P	5.6
2	☐	1.000	1.032	1960.16	0.0075	P	3.2
3	☐	500.000	508.818	892519.47	3.4619	P	1.1
4	☐	1250.000	1291.822	2258927.64	8.7884	A	1.4
5	☐	2500.000	2537.212	4472644.48	17.2604	A	3.0
6	☐	5000.000	4916.467	8672765.70	33.4458	A	0.9
7	☐	10000.000	10026.795	17168537.80	68.2098	A	0.2
8	☐			27273.97	0.1078	P	2.5

$$y = 0.0068 * x + 5.2788E-004$$

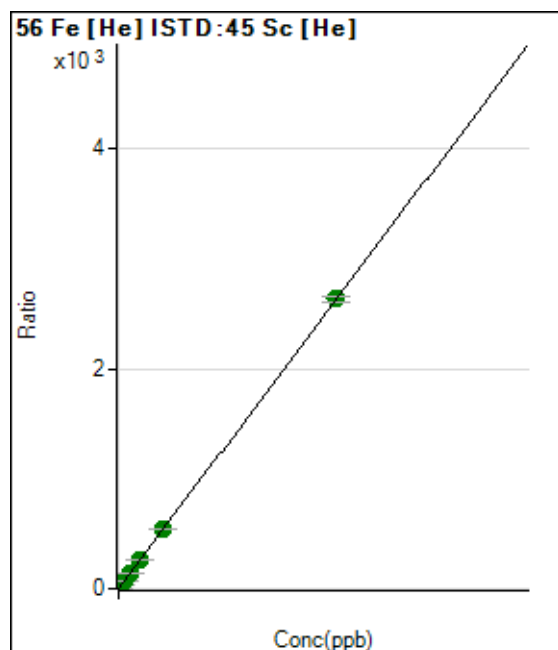
$$R = 0.9999$$

$$DL = 0.01298$$

$$BEC = 0.0776$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	5691.98	0.0222	P	1.1
2	☐	50.000	53.551	152165.57	0.5861	P	1.2
3	☐	2500.000	2593.554	7047030.48	27.3365	A	2.1
4	☐	6250.000	6494.404	17585886.16	68.4188	A	2.3
5	☐	12500.000	12785.356	34899132.95	134.6728	A	2.5
6	☐	25000.000	25303.195	69101817.29	266.5061	A	2.3
7	☐	50000.000	51145.068	135584916.9	538.6632	A	1.1
8	☐	250000.00	249719.35	665425133.3	2,629.974	A	1.4

$$y = 0.0105 * x + 0.0222$$

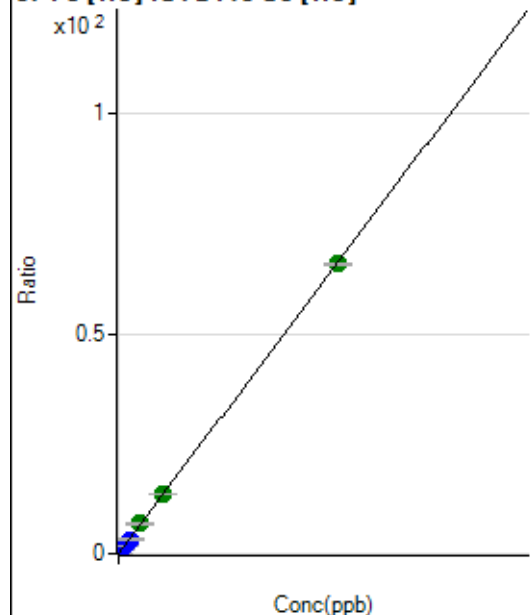
$$R = 1.0000$$

$$DL = 0.07004$$

$$BEC = 2.105$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	246.30	0.0010	P	10.3
2	☐	50.000	56.389	4111.78	0.0158	P	3.3
3	☐	2500.000	2543.167	173290.00	0.6722	P	1.5
4	☐	6250.000	6257.752	424777.03	1.6526	P	2.2
5	☐	12500.000	12399.879	848444.36	3.2737	P	1.6
6	☐	25000.000	25829.620	1767903.93	6.8182	A	2.5
7	☐	50000.000	51376.312	3413055.17	13.5609	A	3.0
8	☐	250000.00	249646.15	16674098.29	65.8908	A	0.6

$$y = 2.6393E-004 * x + 9.5986E-004$$

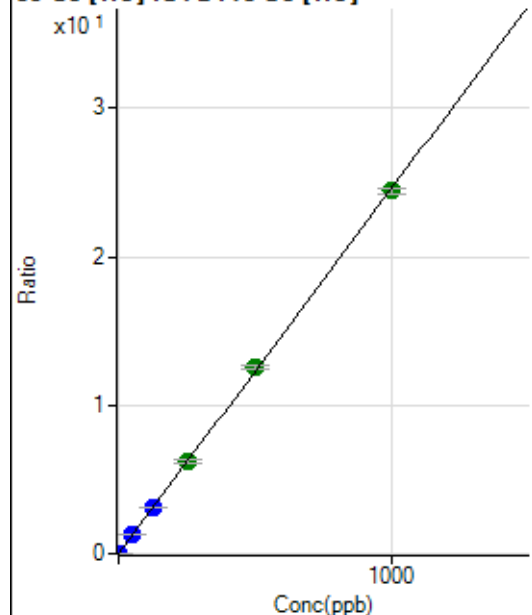
$$R = 1.0000$$

$$DL = 1.119$$

$$BEC = 3.637$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	68.89	0.0003	P	2.0
2	☐	1.000	1.020	6588.27	0.0254	P	1.2
3	☐	50.000	51.209	324971.84	1.2603	P	1.0
4	☐	125.000	124.167	785410.43	3.0555	P	0.4
5	☐	250.000	252.477	1610000.86	6.2126	A	2.9
6	☐	500.000	511.656	3264882.10	12.5899	A	2.0
7	☐	1000.000	993.596	6153602.41	24.4483	A	1.8
8	☐			14711.04	0.0581	P	1.3

$$y = 0.0246 * x + 2.6829E-004$$

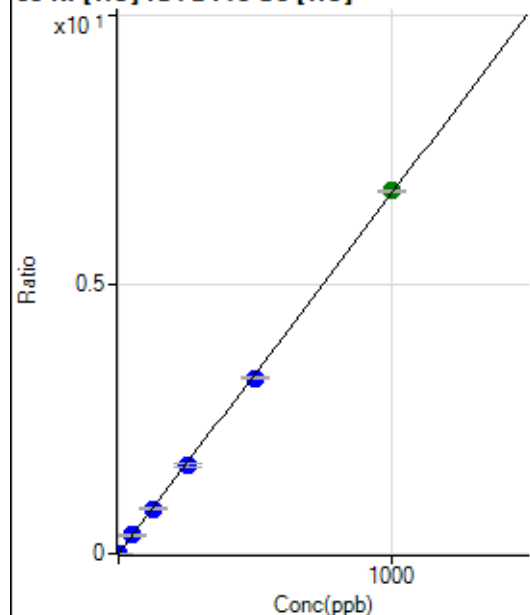
$$R = 0.9999$$

$$DL = 0.0006559$$

$$BEC = 0.0109$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	268.89	0.0010	P	6.7
2	☐	1.000	1.107	2190.19	0.0084	P	1.2
3	☐	50.000	50.871	87821.50	0.3407	P	1.3
4	☐	125.000	124.875	214555.27	0.8347	P	0.8
5	☐	250.000	244.947	424007.31	1.6362	P	2.8
6	☐	500.000	487.313	843881.89	3.2542	P	1.1
7	☐	1000.000	1007.579	1693274.11	6.7274	A	0.7
8	☐			6140.28	0.0243	P	1.2

$$y = 0.0067 * x + 0.0010$$

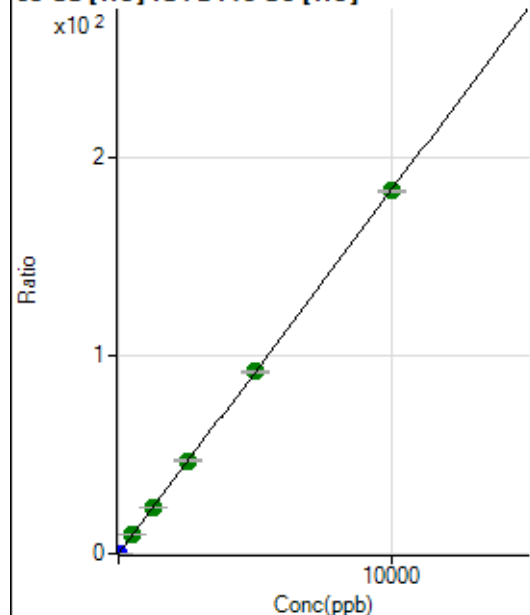
$$R = 0.9999$$

$$DL = 0.03161$$

$$BEC = 0.1569$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	835.59	0.0033	P	5.4
2	☐	2.000	2.163	11146.69	0.0429	P	3.0
3	☐	500.000	541.239	2561622.60	9.9353	A	0.3
4	☐	1250.000	1288.107	6076776.09	23.6407	A	0.3
5	☐	2500.000	2555.610	12152503.71	46.9000	A	3.4
6	☐	5000.000	5006.017	23821543.81	91.8662	A	0.8
7	☐	10000.000	9976.263	46079594.87	183.0728	A	0.8
8	☐			13119.48	0.0519	P	2.5

$$y = 0.0184 * x + 0.0033$$

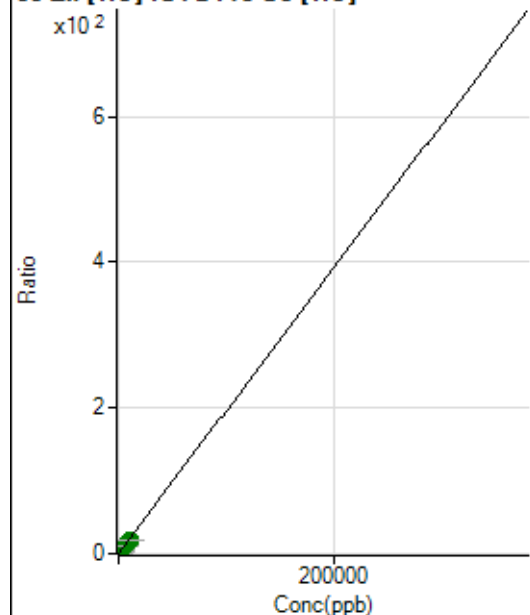
$$R = 1.0000$$

$$DL = 0.02887$$

$$BEC = 0.1774$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	590.02	0.0023	P	10.5
2	☐	2.000	2.576	1909.04	0.0074	P	3.1
3	☐	500.000	524.931	266165.14	1.0325	P	1.7
4	☐	1250.000	1272.941	642710.42	2.5004	P	0.8
5	☐	2500.000	2504.331	1274396.36	4.9170	P	1.6
6	☐	5000.000	5141.784	2617009.42	10.0930	A	2.3
7	☐	10000.000	9923.911	4902546.07	19.4779	A	1.2
8	☐			11495.86	0.0455	P	3.3

$$y = 0.0020 * x + 0.0023$$

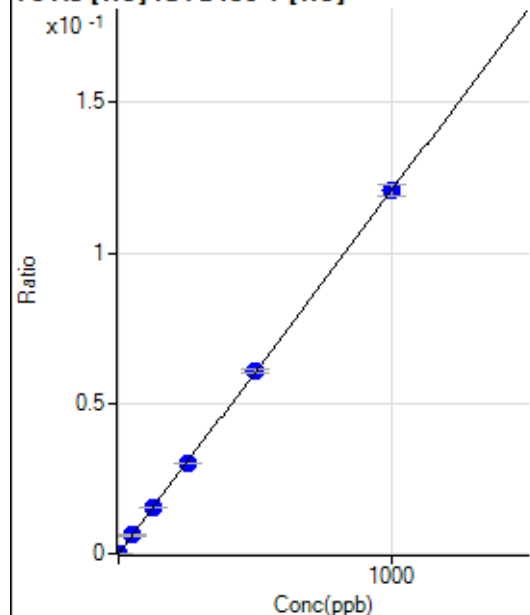
$$R = 0.9999$$

$$DL = 0.3674$$

$$BEC = 1.171$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	12.33	0.0000	P	16.5
2	☐	1.000	1.046	351.04	0.0001	P	6.0
3	☐	50.000	50.723	16368.43	0.0061	P	1.9
4	☐	125.000	125.528	40004.64	0.0152	P	0.1
5	☐	250.000	247.539	79761.23	0.0299	P	0.7
6	☐	500.000	502.222	160916.72	0.0606	P	2.1
7	☐	1000.000	999.402	308702.29	0.1207	P	3.0
8	☐			134.68	0.0001	P	8.9

$$y = 1.2072E-004 * x + 4.6627E-006$$

$$R = 1.0000$$

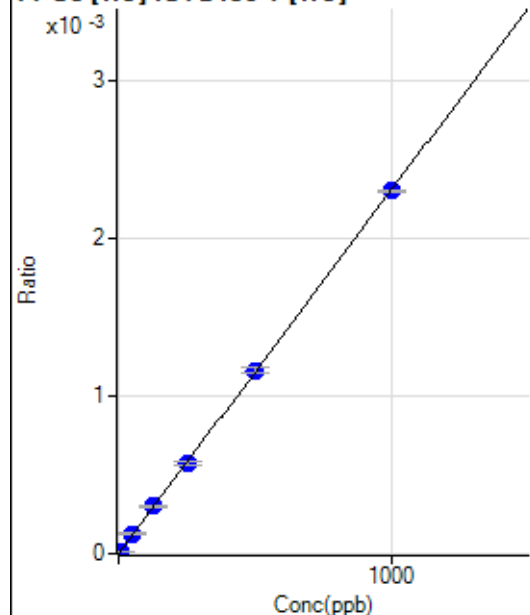
$$DL = 0.01912$$

$$BEC = 0.03862$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	0.00	0.0000	P	
2	☐	5.000	6.280	38.89	0.0000	P	10.8
3	☐	50.000	54.332	335.56	0.0001	P	8.2
4	☐	125.000	129.685	791.14	0.0003	P	1.5
5	☐	250.000	248.824	1534.54	0.0006	P	4.6
6	☐	500.000	504.604	3097.05	0.0012	P	4.0
7	☐	1000.000	997.184	5900.18	0.0023	P	0.5
8	☐			2.22	0.0000	P	86.6

$$y = 2.3117\text{E-}006 * x + 0.0000\text{E+}000$$

$$R = 1.0000$$

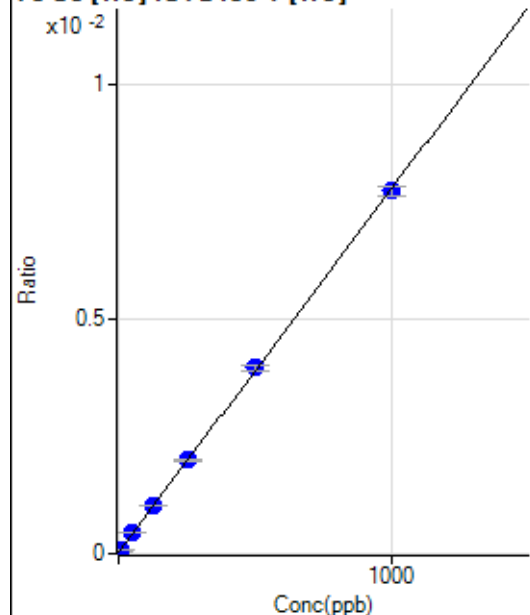
$$DL = 0$$

$$BEC = 0$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	71.01	0.0000	P	6.8
2	☐	5.000	5.184	179.69	0.0001	P	11.9
3	☐	50.000	53.510	1179.50	0.0004	P	4.1
4	☐	125.000	129.456	2718.21	0.0010	P	1.3
5	☐	250.000	254.479	5333.56	0.0020	P	1.7
6	☐	500.000	507.160	10500.64	0.0040	P	2.7
7	☐	1000.000	994.567	19787.16	0.0077	P	2.9
8	☐			75.01	0.0000	P	15.4

$$y = 7.7489\text{E-}006 * x + 2.6856\text{E-}005$$

$$R = 0.9999$$

$$DL = 0.7034$$

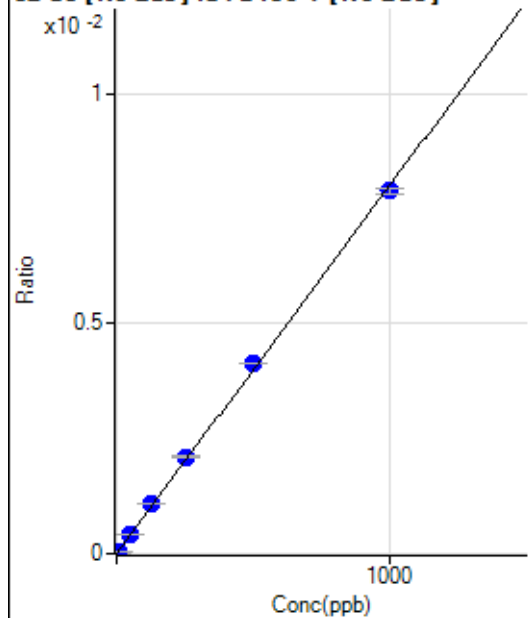
$$BEC = 3.466$$

Weight: <None>

Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			22604.94		P	2.2
2	☐			23046.22		P	3.6
3	☐			22150.42		P	2.6
4	☐			22665.09		P	0.8
5	☐			23323.33		P	1.0
6	☐			23336.95		P	1.4
7	☐			22581.38		P	2.9
8	☐			22314.16		P	1.4

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	4.66	0.0000	P	715.
2	☐	5.000	5.410	1046.32	0.0000	P	11.0
3	☐	50.000	53.552	10389.10	0.0004	P	3.3
4	☐	125.000	134.337	25586.23	0.0011	P	0.5
5	☐	250.000	263.967	51761.09	0.0021	P	2.0
6	☐	500.000	517.840	102461.62	0.0041	P	0.2
7	☐	1000.000	986.242	195271.77	0.0079	P	1.9
8	☐			311.57	0.0000	P	12.9

$$y = 7.9933E-006 * x + 1.8083E-007$$

$$R = 0.9996$$

$$DL = 0.4857$$

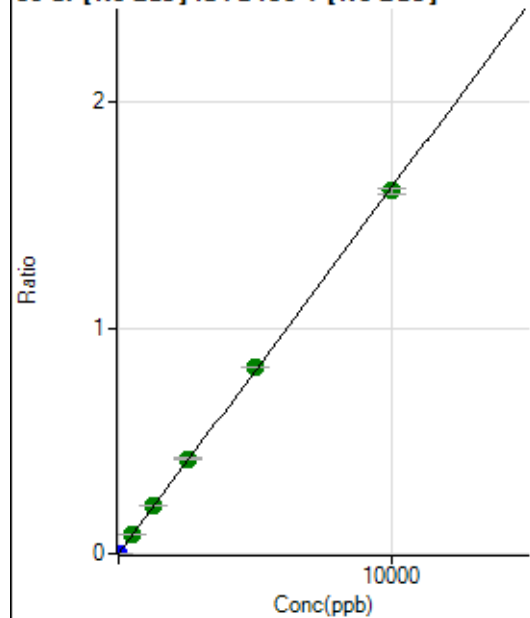
$$BEC = 0.02262$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			835.59		P	6.1
2	☐			856.70		P	5.1
3	☐			842.26		P	4.0
4	☐			852.26		P	5.3
5	☐			886.71		P	9.9
6	☐			856.70		P	9.9
7	☐			848.93		P	2.5
8	☐			904.48		P	0.6

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	1313.99	0.0001	P	9.0
2	☐	1.000	1.156	5829.16	0.0002	P	8.2
3	☐	500.000	533.369	2099864.02	0.0865	A	1.5
4	☐	1250.000	1306.103	5045855.23	0.2118	A	2.2
5	☐	2500.000	2598.030	10331343.20	0.4213	A	3.8
6	☐	5000.000	5110.759	20512788.48	0.8287	A	0.2
7	☐	10000.000	9911.431	39807103.67	1.6071	A	1.9
8	☐			31066.25	0.0013	P	3.1

$$y = 1.6214E-004 * x + 5.4319E-005$$

$$R = 0.9999$$

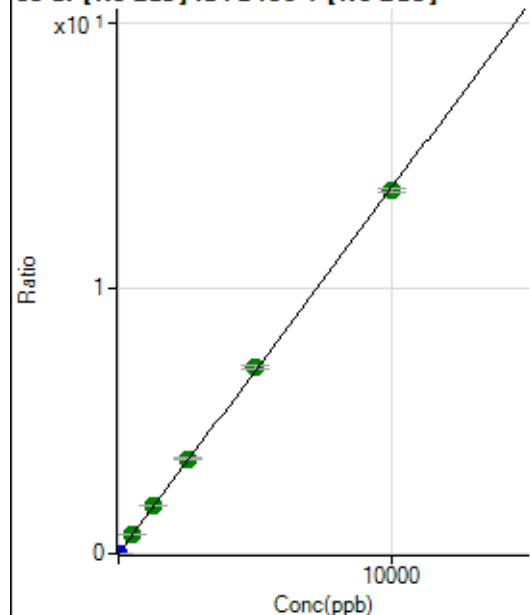
$$DL = 0.09067$$

$$BEC = 0.335$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	555.58	0.0000	P	1.9
2	☐	1.000	1.150	38782.48	0.0016	P	4.3
3	☐	500.000	525.970	17563580.43	0.7238	A	1.7
4	☐	1250.000	1317.569	43196426.31	1.8132	A	1.4
5	☐	2500.000	2598.145	87714533.21	3.5754	A	2.0
6	☐	5000.000	5093.867	173510744.1	7.0098	A	2.0
7	☐	10000.000	9918.786	338135163.1	13.6495	A	1.0
8	☐			261238.67	0.0107	P	1.4

$$y = 0.0014 * x + 2.2960E-005$$

$$R = 0.9999$$

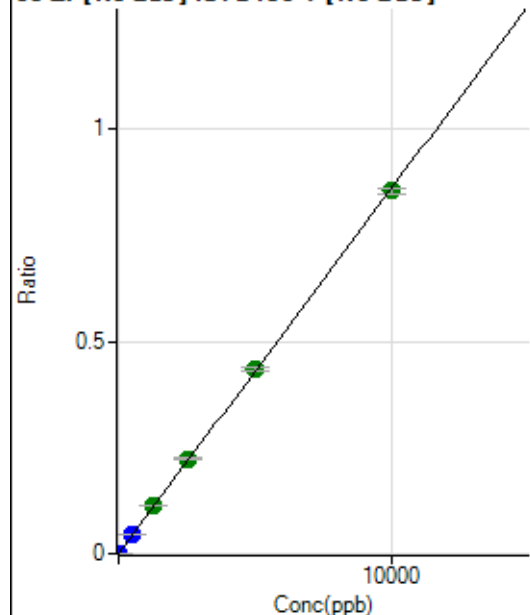
$$DL = 0.0009454$$

$$BEC = 0.01668$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1033.40	0.0000	P	2.7
2	☐	1.000	10.197	22198.76	0.0009	P	7.1
3	☐	500.000	515.454	1077239.16	0.0444	P	2.3
4	☐	1250.000	1309.896	2686613.82	0.1128	A	1.1
5	☐	2500.000	2593.255	5475785.93	0.2232	A	1.0
6	☐	5000.000	5072.129	10804784.71	0.4365	A	1.8
7	☐	10000.000	9932.361	21172043.18	0.8547	A	1.5
8	☐			13054.59	0.0005	P	8.3

$$y = 8.6049E-005 * x + 4.2703E-005$$

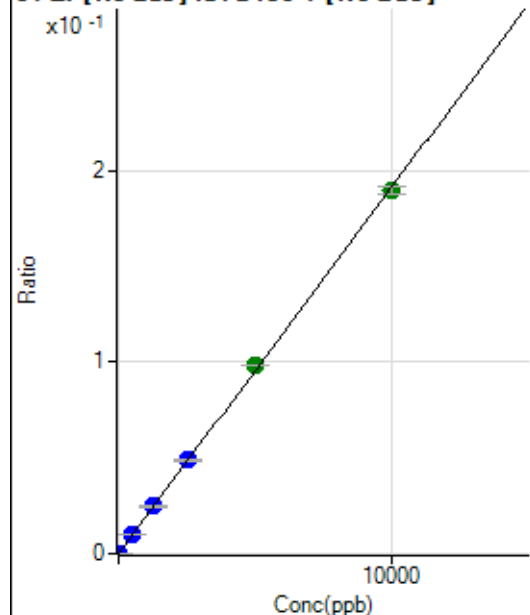
$$R = 0.9999$$

$$DL = 0.04022$$

$$BEC = 0.4963$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	175.00	0.0000	P	29.9
2	☐	1.000	9.954	4767.59	0.0002	P	8.7
3	☐	500.000	516.891	240122.38	0.0099	P	1.6
4	☐	1250.000	1292.293	589156.37	0.0247	P	1.3
5	☐	2500.000	2558.044	1200574.89	0.0489	P	2.5
6	☐	5000.000	5146.758	2437385.78	0.0985	A	0.7
7	☐	10000.000	9905.978	4694138.26	0.1895	A	2.2
8	☐			2819.81	0.0001	P	8.7

$$y = 1.9131\text{E-}005 * x + 7.2160\text{E-}006$$

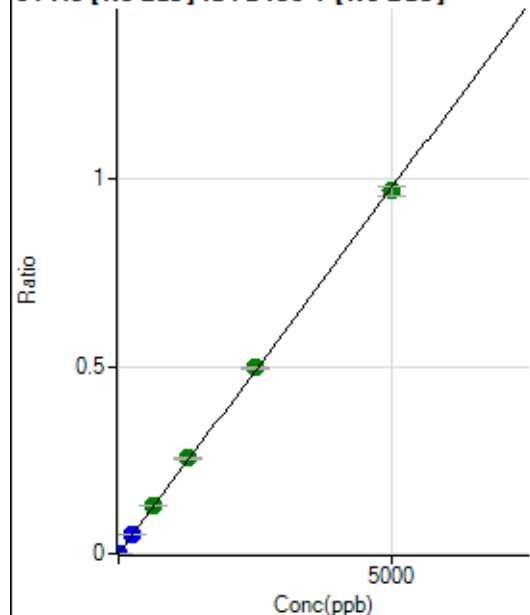
$$R = 0.9998$$

$$DL = 0.3383$$

$$BEC = 0.3772$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	491.69	0.0000	P	6.5
2	☐	5.000	5.240	25217.93	0.0010	P	6.0
3	☐	250.000	263.240	1249241.06	0.0515	P	1.4
4	☐	625.000	659.655	3072607.51	0.1290	A	1.2
5	☐	1250.000	1302.703	6246622.28	0.2547	A	3.2
6	☐	2500.000	2544.710	12314352.01	0.4975	A	1.3
7	☐	5000.000	4959.475	24013692.21	0.9696	A	2.9
8	☐			14145.47	0.0006	P	13.3

$$y = 1.9549\text{E-}004 * x + 2.0329\text{E-}005$$

$$R = 0.9999$$

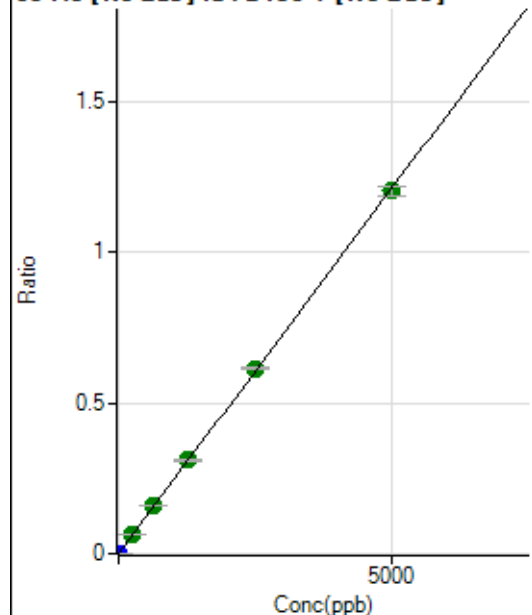
$$DL = 0.02026$$

$$BEC = 0.104$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	136.12	0.0000	P	28.6
2	☐	5.000	5.265	30963.23	0.0013	P	4.1
3	☐	250.000	262.571	1544391.44	0.0637	A	2.9
4	☐	625.000	651.206	3760800.39	0.1579	A	1.0
5	☐	1250.000	1282.070	7624042.79	0.3108	A	3.3
6	☐	2500.000	2536.377	15219075.52	0.6149	A	1.0
7	☐	5000.000	4969.889	29840222.54	1.2048	A	2.5
8	☐			11864.00	0.0005	P	2.4

$$y = 2.4241\text{E-}004 * x + 5.6104\text{E-}006$$

$$R = 0.9999$$

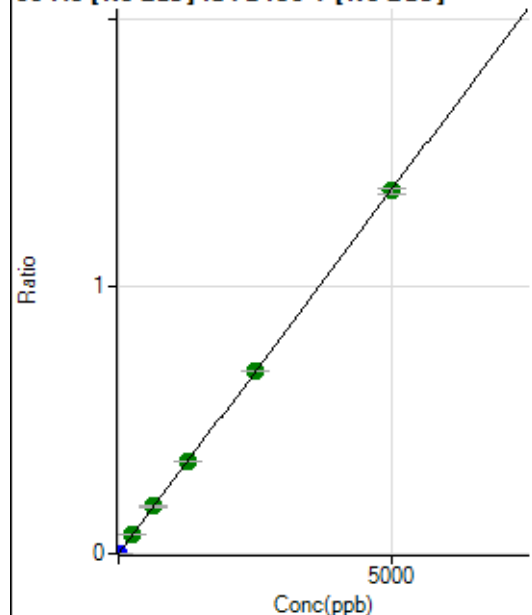
$$DL = 0.01986$$

$$BEC = 0.02314$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	283.34	0.0000	P	32.5
2	☐	5.000	5.237	34699.65	0.0014	P	5.2
3	☐	250.000	259.675	1715372.91	0.0707	A	2.1
4	☐	625.000	648.934	4208376.40	0.1767	A	1.6
5	☐	1250.000	1267.653	8465596.63	0.3451	A	1.8
6	☐	2500.000	2513.214	16934049.68	0.6841	A	0.7
7	☐	5000.000	4985.504	33619026.79	1.3571	A	1.8
8	☐			28285.58	0.0012	P	3.7

$$y = 2.7221\text{E-}004 * x + 1.1676\text{E-}005$$

$$R = 1.0000$$

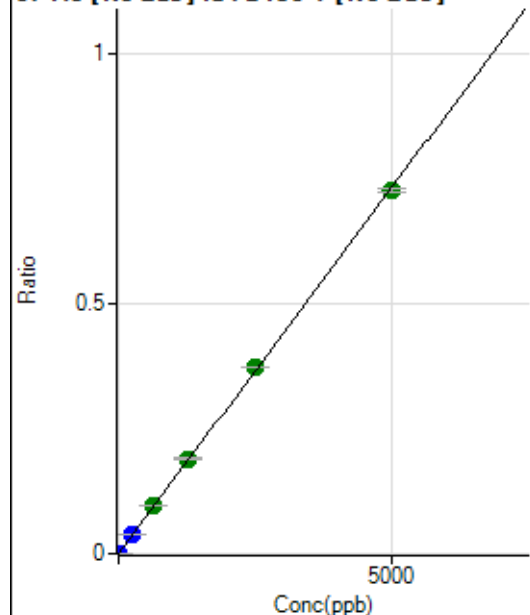
$$DL = 0.04182$$

$$BEC = 0.04289$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	86.11	0.0000	P	23.4
2	☐	5.000	5.239	18554.50	0.0008	P	6.6
3	☐	250.000	262.594	930706.83	0.0384	P	2.9
4	☐	625.000	659.345	2294674.40	0.0963	A	0.6
5	☐	1250.000	1295.087	4640881.96	0.1892	A	2.6
6	☐	2500.000	2548.281	9214080.94	0.3722	A	0.7
7	☐	5000.000	4959.665	17946629.22	0.7245	A	1.2
8	☐			7581.31	0.0003	P	1.9

$$y = 1.4607\text{E-}004 * x + 3.5647\text{E-}006$$

$$R = 0.9999$$

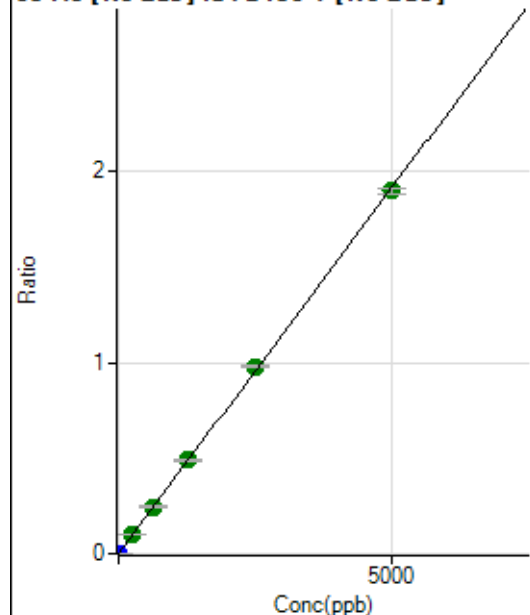
$$DL = 0.01714$$

$$BEC = 0.0244$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	180.56	0.0000	P	33.7
2	☐	5.000	5.354	49650.95	0.0021	P	6.6
3	☐	250.000	266.065	2471744.76	0.1019	A	3.8
4	☐	625.000	642.544	5861374.87	0.2460	A	0.8
5	☐	1250.000	1280.649	12028837.25	0.4904	A	2.1
6	☐	2500.000	2554.487	24210785.96	0.9781	A	1.0
7	☐	5000.000	4962.098	47063424.66	1.9000	A	1.7
8	☐			17923.65	0.0007	P	6.8

$$y = 3.8290\text{E-}004 * x + 7.4840\text{E-}006$$

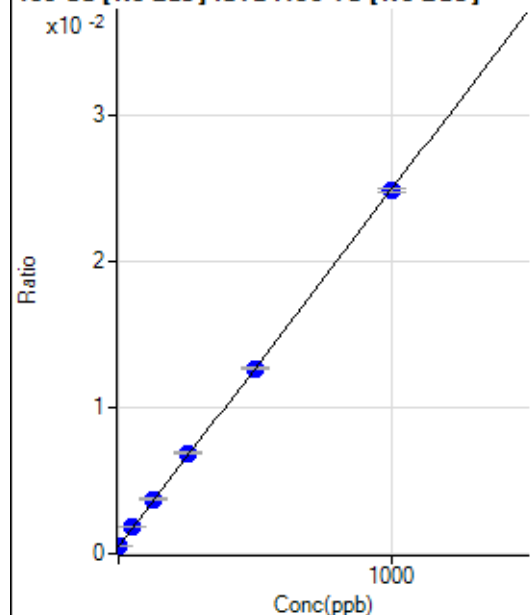
$$R = 0.9999$$

$$DL = 0.01973$$

$$BEC = 0.01955$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	5387.30	0.0005	P	2.1
2	☐	1.000	2.093	5845.86	0.0005	P	1.7
3	☐	50.000	53.911	20660.50	0.0018	P	1.5
4	☐	125.000	132.302	41393.58	0.0037	P	2.1
5	☐	250.000	262.528	78940.76	0.0069	P	3.2
6	☐	500.000	499.595	149823.77	0.0127	P	1.7
7	☐	1000.000	995.961	286772.46	0.0248	P	1.1
8	☐			5879.20	0.0005	P	3.4

$$y = 2.4436E-005 * x + 4.7833E-004$$

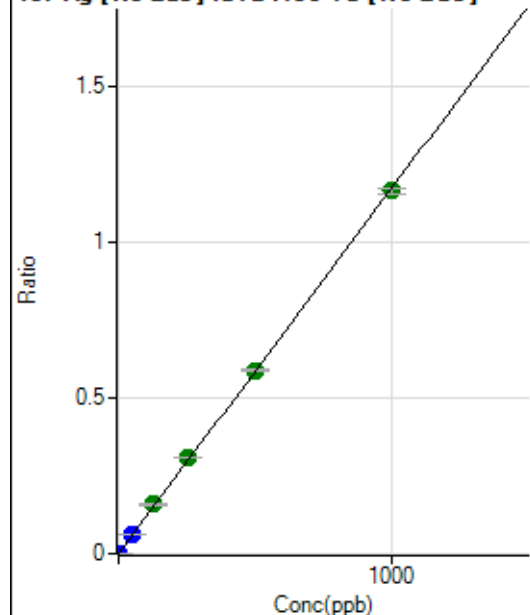
R = 0.9999

DL = 1.205

BEC = 19.57

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	141.67	0.0000	P	38.1
2	☐	1.000	1.040	13593.20	0.0012	P	2.9
3	☐	50.000	51.167	689786.29	0.0600	P	4.0
4	☐	125.000	134.854	1762978.10	0.1581	A	2.1
5	☐	250.000	264.664	3552159.76	0.3102	A	0.6
6	☐	500.000	502.841	6961625.41	0.5894	A	0.8
7	☐	1000.000	993.624	13457924.52	1.1646	A	1.4
8	☐			4870.44	0.0004	P	8.3

$$y = 0.0012 * x + 1.2615E-005$$

R = 0.9998

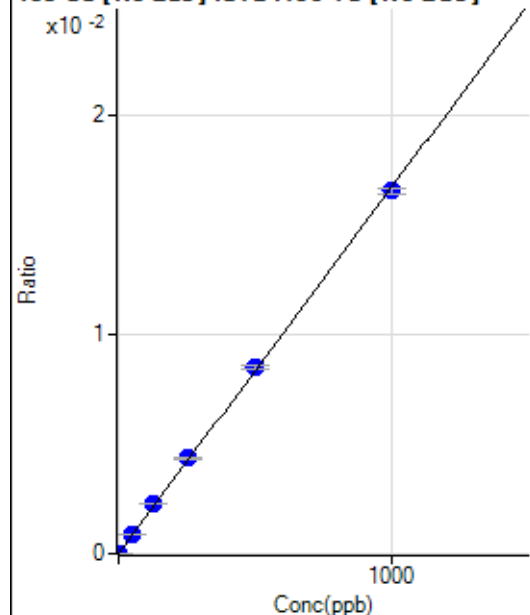
DL = 0.01229

BEC = 0.01076

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	72.22	0.0000	P	21.5
2	☐	1.000	1.148	281.95	0.0000	P	10.7
3	☐	50.000	52.418	10127.45	0.0009	P	3.8
4	☐	125.000	135.413	25266.35	0.0023	P	0.7
5	☐	250.000	261.530	50014.18	0.0044	P	2.3
6	☐	500.000	509.662	100469.97	0.0085	P	2.5
7	☐	1000.000	990.864	191017.97	0.0165	P	1.7
8	☐			161.12	0.0000	P	20.7

$$y = 1.6677\text{E-}005 * x + 6.4219\text{E-}006$$

$$R = 0.9998$$

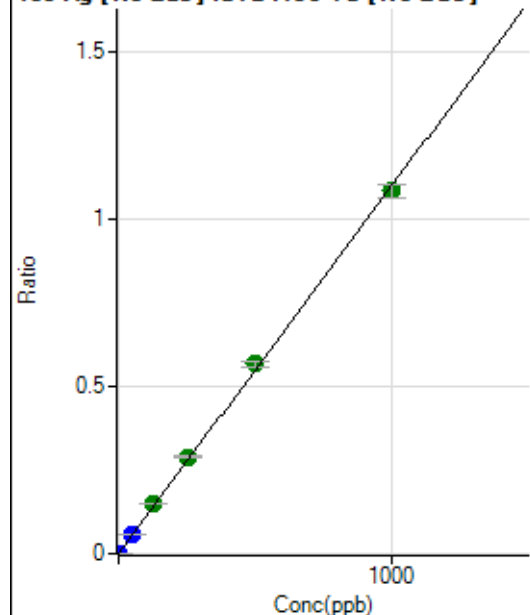
$$DL = 0.2478$$

$$BEC = 0.3851$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	105.56	0.0000	P	23.8
2	☐	1.000	1.052	12873.04	0.0012	P	2.1
3	☐	50.000	53.183	673017.51	0.0585	P	1.8
4	☐	125.000	136.781	1678434.54	0.1504	A	2.2
5	☐	250.000	264.147	3326520.13	0.2905	A	1.7
6	☐	500.000	515.486	6694339.78	0.5669	A	3.5
7	☐	1000.000	987.089	12543109.65	1.0856	A	3.4
8	☐			4375.83	0.0004	P	5.4

$$y = 0.0011 * x + 9.3691\text{E-}006$$

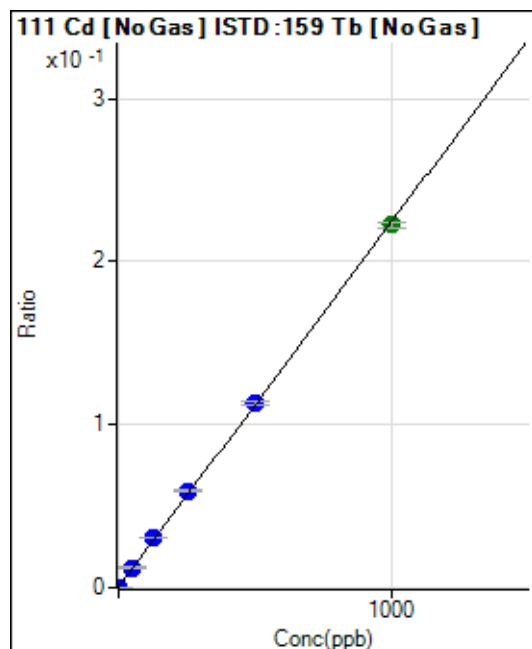
$$R = 0.9997$$

$$DL = 0.006078$$

$$BEC = 0.008519$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	3753.89	0.0003	P	2.0
2	☐	1.000	1.082	6354.71	0.0006	P	1.5
3	☐	50.000	53.067	140517.79	0.0122	P	3.4
4	☐	125.000	134.572	339854.97	0.0305	P	1.5
5	☐	250.000	263.891	680510.73	0.0594	P	1.0
6	☐	500.000	506.350	1343059.51	0.1137	P	2.1
7	☐	1000.000	992.002	2570985.14	0.2225	A	1.6
8	☐			5090.21	0.0004	P	3.2

$$y = 2.2395\text{E-}004 * x + 3.3330\text{E-}004$$

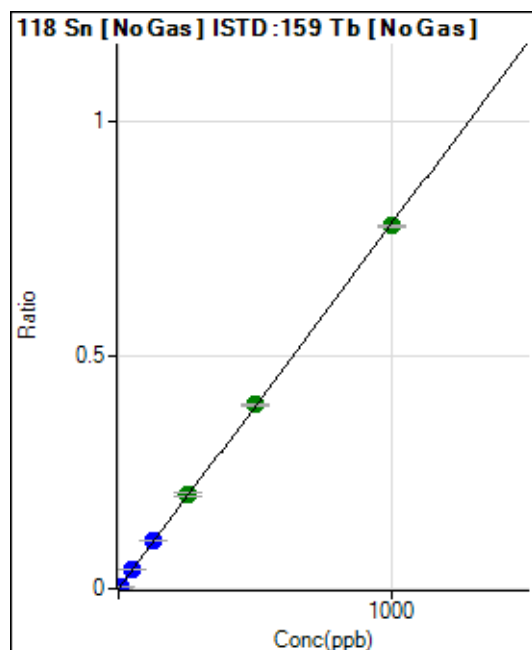
$$R = 0.9998$$

$$DL = 0.09028$$

$$BEC = 1.488$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1691.82	0.0002	P	4.6
2	☐	5.000	5.239	46861.96	0.0042	P	3.0
3	☐	50.000	51.680	466449.37	0.0406	P	2.9
4	☐	125.000	129.973	1135208.56	0.1018	P	0.6
5	☐	250.000	259.192	2321633.49	0.2028	A	3.1
6	☐	500.000	504.917	4665130.49	0.3949	A	1.4
7	☐	1000.000	994.537	8988585.01	0.7777	A	0.6
8	☐			4839.97	0.0004	P	1.6

$$y = 7.8181\text{E-}004 * x + 1.5024\text{E-}004$$

$$R = 0.9999$$

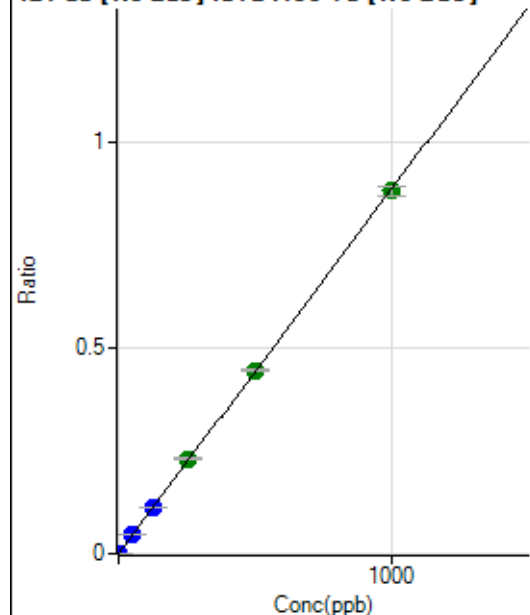
$$DL = 0.02669$$

$$BEC = 0.1922$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	86.11	0.0000	P	40.1
2	☐	2.000	2.110	20755.08	0.0019	P	1.6
3	☐	50.000	51.009	520653.83	0.0453	P	2.7
4	☐	125.000	127.817	1264907.25	0.1134	P	1.8
5	☐	250.000	259.765	2638887.99	0.2305	A	1.2
6	☐	500.000	503.565	5277857.58	0.4468	A	1.0
7	☐	1000.000	995.373	10203407.78	0.8831	A	2.8
8	☐			7407.77	0.0006	P	6.1

$$y = 8.8724\text{E-}004 * x + 7.6653\text{E-}006$$

$$R = 0.9999$$

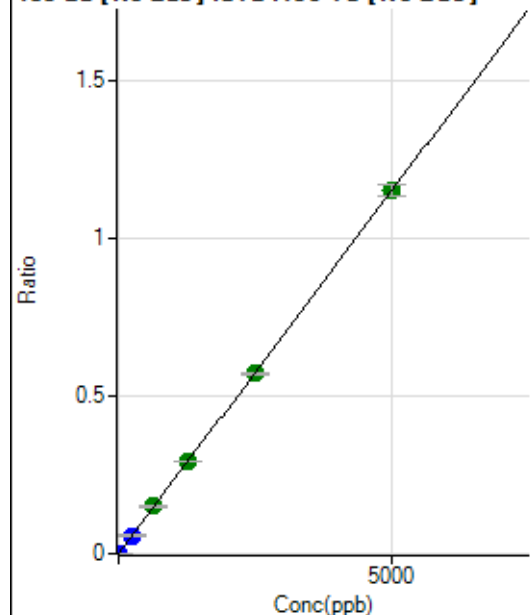
$$DL = 0.01038$$

$$BEC = 0.00864$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	66.67	0.0000	P	1.2
2	☐	10.000	10.255	26064.63	0.0024	P	4.3
3	☐	250.000	248.806	657275.96	0.0572	P	4.1
4	☐	625.000	651.344	1669021.12	0.1496	A	1.8
5	☐	1250.000	1269.205	3338416.63	0.2916	A	1.0
6	☐	2500.000	2480.574	6729222.24	0.5698	A	1.8
7	☐	5000.000	5001.678	13273211.41	1.1489	A	3.3
8	☐			5632.41	0.0005	P	10.6

$$y = 2.2971\text{E-}004 * x + 5.9194\text{E-}006$$

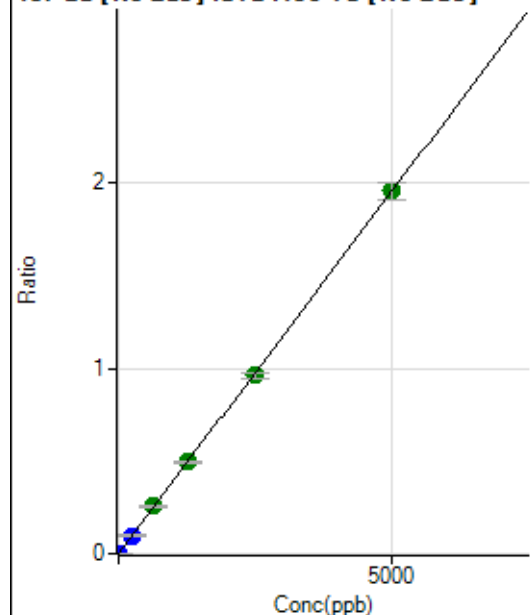
$$R = 1.0000$$

$$DL = 0.0009547$$

$$BEC = 0.02577$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	94.45	0.0000	P	36.0
2	☐	10.000	10.703	46288.68	0.0042	P	3.9
3	☐	250.000	249.298	1121547.28	0.0975	P	3.3
4	☐	625.000	654.148	2853620.68	0.2559	A	2.5
5	☐	1250.000	1268.286	5680703.73	0.4961	A	2.3
6	☐	2500.000	2461.157	11366923.69	0.9627	A	3.0
7	☐	5000.000	5011.240	22640834.36	1.9601	A	4.9
8	☐			9381.39	0.0008	P	3.0

$$y = 3.9114\text{E-}004 * x + 8.3686\text{E-}006$$

$$R = 0.9999$$

$$DL = 0.02309$$

$$BEC = 0.0214$$

Weight: <None>

Min Conc: 0

150 Nd [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			8.89		P	114.
2	☐			11.11		P	91.7
3	☐			53.34		P	33.1
4	☐			77.78		P	34.6
5	☐			166.67		P	24.0
6	☐			284.45		P	25.3
7	☐			557.80		P	20.0
8	☐			113.34		P	5.9

150 Nd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2.22		P	86.6
2	☐			2.22		P	86.6
3	☐			6.67		P	50.0
4	☐			8.89		P	57.3
5	☐			20.00		P	33.4
6	☐			28.89		P	26.6
7	☐			41.11		P	67.5
8	☐			31.11		P	16.4

156 Dy [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2.78		P	173.
2	☐			5.56		P	173.
3	☐			41.67		P	40.0
4	☐			52.78		P	72.9
5	☐			141.67		P	42.4
6	☐			238.89		P	19.2
7	☐			438.91		P	9.6
8	☐			1833.51		P	4.3

156 Dy [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			6.67		P	100.
2	☐			5.56		P	34.7
3	☐			16.67		P	60.0
4	☐			31.11		P	22.3
5	☐			58.89		P	14.2
6	☐			97.78		P	26.5
7	☐			211.12		P	7.5
8	☐			840.03		P	3.2

160 Gd [No Gas] Noavailable calibration poin...

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			72.22		P	6.7
2	☐			44.44		P	28.6
3	☐			111.11		P	28.4
4	☐			127.78		P	27.2
5	☐			205.57		P	8.4
6	☐			258.34		P	16.1
7	☐			413.91		P	18.3
8	☐			1497.35		P	9.7

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			88.89		P	19.2
2	☐			72.23		P	26.2
3	☐			88.89		P	28.1
4	☐			110.00		P	21.9
5	☐			116.67		P	17.1
6	☐			168.89		P	25.8
7	☐			247.78		P	7.4
8	☐			900.04		P	3.2

164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			58.33		P	24.7
2	☐			97.23		P	34.6
3	☐			100.00		P	25.0
4	☐			83.33		P	52.9
5	☐			77.78		P	24.7
6	☐			102.78		P	12.4
7	☐			155.56		P	11.2
8	☐			252.79		P	22.0

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			34.44		P	14.8
2	☐			25.56		P	66.9
3	☐			31.11		P	61.9
4	☐			27.78		P	25.0
5	☐			40.00		P	14.4
6	☐			40.00		P	28.9
7	☐			71.11		P	5.4
8	☐			134.45		P	5.2

172 Yb [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			27.78		P	34.6
2	☐			27.78		P	34.6
3	☐			47.22		P	53.9
4	☐			41.67		P	34.6
5	☐			41.67		P	72.1
6	☐			44.45		P	65.8
7	☐			72.23		P	37.1
8	☐			186.12		P	13.7

172 Yb [He] No available calibration points

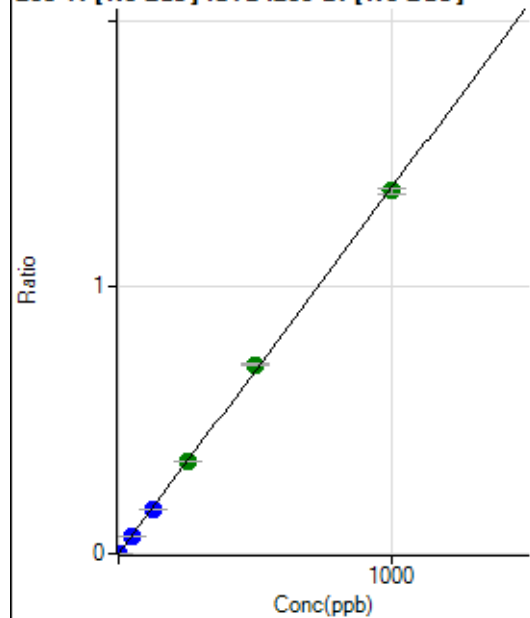
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			27.78		P	20.0
2	☐			22.22		P	66.1
3	☐			22.22		P	43.3
4	☐			12.97		P	49.5
5	☐			22.22		P	0.0
6	☐			24.07		P	48.0
7	☐			37.04		P	43.3
8	☐			100.00		P	9.6

176 Yb [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1055.64		P	8.7
2	☐			1113.97		P	7.0
3	☐			2903.17		P	3.3
4	☐			5348.46		P	5.8
5	☐			9920.64		P	0.7
6	☐			18869.62		P	1.5
7	☐			36490.21		P	0.6
8	☐			1186.20		P	16.4

176 Yb [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			5269.67		P	4.1
2	☐			5075.14		P	9.5
3	☐			5981.10		P	2.0
4	☐			7179.88		P	2.4
5	☐			9208.92		P	6.4
6	☐			13835.23		P	5.5
7	☐			21851.61		P	2.0
8	☐			5182.59		P	2.3

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	458.35	0.0001	P	12.2
2	☐	1.000	0.984	8600.33	0.0014	P	2.5
3	☐	50.000	47.377	410804.54	0.0651	P	3.4
4	☐	125.000	118.964	1003186.60	0.1634	P	0.5
5	☐	250.000	251.277	2135600.22	0.3450	A	1.0
6	☐	500.000	517.591	4328345.19	0.7105	A	0.7
7	☐	1000.000	991.771	8221953.22	1.3614	A	1.9
8	☐			2672.65	0.0005	P	17.6

$$y = 0.0014 * x + 7.4908E-005$$

$$R = 0.9997$$

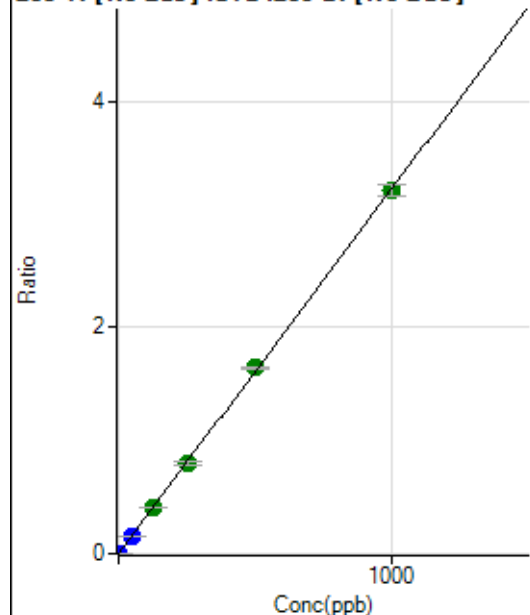
$$DL = 0.02006$$

$$BEC = 0.05457$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	1155.64	0.0002	P	8.1
2	☐	1.000	0.968	19974.26	0.0033	P	2.0
3	☐	50.000	47.187	961588.53	0.1524	P	2.6
4	☐	125.000	125.987	2496437.60	0.4065	A	1.3
5	☐	250.000	248.258	4956568.17	0.8008	A	2.7
6	☐	500.000	510.375	10027963.42	1.6462	A	0.6
7	☐	1000.000	995.265	19381946.96	3.2099	A	3.1
8	☐			6240.69	0.0011	P	11.7

$$y = 0.0032 * x + 1.8961E-004$$

$$R = 0.9999$$

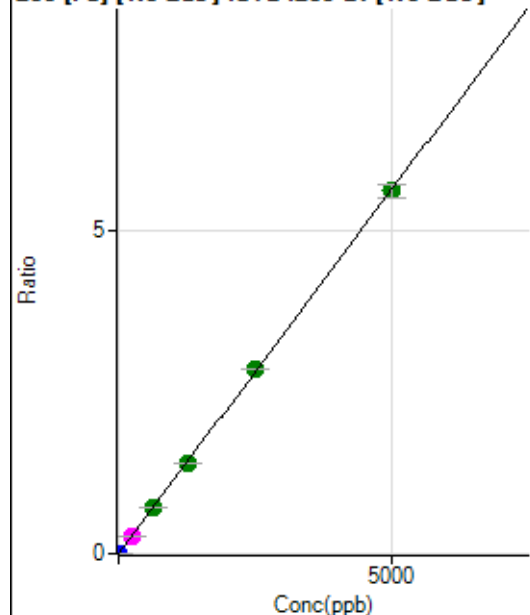
$$DL = 0.01427$$

$$BEC = 0.05879$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	1094.52	0.0002	P	12.4
2	☐	1.000	0.996	7846.96	0.0013	P	2.8
3	☐	250.000	235.416	1674595.03	0.2653	M	4.6
4	☐	625.000	623.302	4311471.83	0.7021	A	0.7
5	☐	1250.000	1245.988	8687936.71	1.4033	A	1.2
6	☐	2500.000	2535.610	17395784.30	2.8555	A	0.5
7	☐	5000.000	4984.139	33889265.11	5.6128	A	3.5
8	☐			14960.95	0.0026	P	0.6

$$y = 0.0011 * x + 1.8000E-004$$

$$R = 1.0000$$

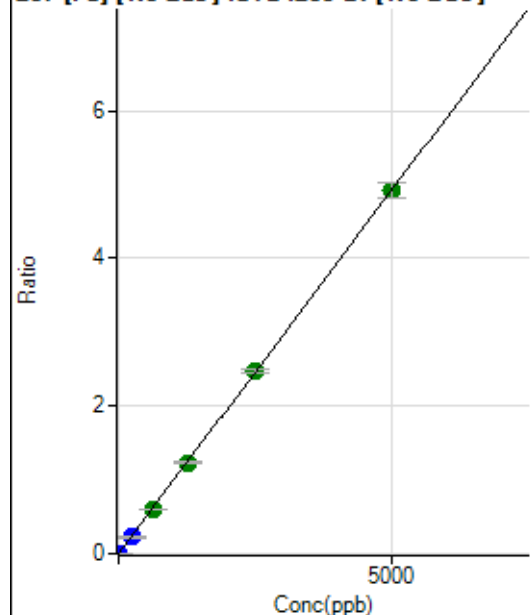
$$DL = 0.05961$$

$$BEC = 0.1598$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	948.20	0.0002	P	7.4
2	☐	1.000	0.977	6729.64	0.0011	P	6.1
3	☐	250.000	228.297	1418640.12	0.2248	P	3.8
4	☐	625.000	618.883	3741168.26	0.6092	A	0.8
5	☐	1250.000	1249.553	7612498.84	1.2299	A	2.3
6	☐	2500.000	2515.998	15084592.23	2.4764	A	1.9
7	☐	5000.000	4993.963	29673776.13	4.9151	A	4.1
8	☐			13092.18	0.0023	P	5.3

$$y = 9.8418\text{E-}004 * x + 1.5558\text{E-}004$$

$$R = 1.0000$$

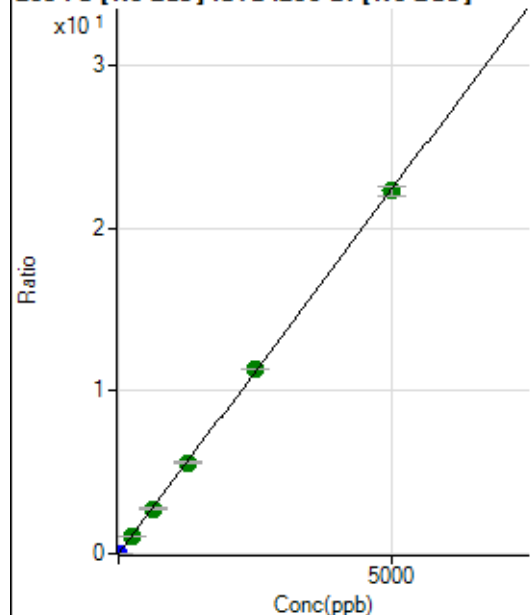
$$DL = 0.035$$

$$BEC = 0.1581$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	4313.33	0.0007	P	4.5
2	☐	1.000	0.999	31232.04	0.0052	P	4.2
3	☐	250.000	239.780	6780020.89	1.0741	A	2.1
4	☐	625.000	619.937	17047045.84	2.7760	A	0.4
5	☐	1250.000	1250.153	34649151.93	5.5973	A	0.8
6	☐	2500.000	2536.743	69184046.80	11.3570	A	0.7
7	☐	5000.000	4982.734	134697398.3	22.3071	A	2.9
8	☐			59831.58	0.0106	P	5.3

$$y = 0.0045 * x + 7.0793\text{E-}004$$

$$R = 1.0000$$

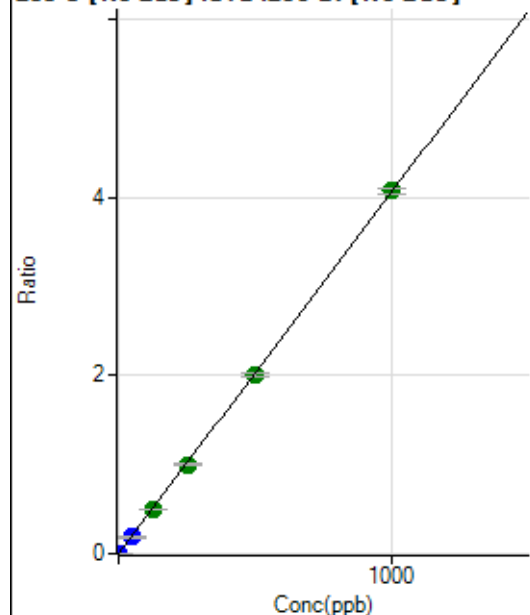
$$DL = 0.02145$$

$$BEC = 0.1581$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	38.89	0.0000	P	56.9
2	☐	1.000	0.972	23822.97	0.0040	P	1.3
3	☐	50.000	45.982	1177182.62	0.1866	P	4.0
4	☐	125.000	124.025	3090503.61	0.5033	A	0.9
5	☐	250.000	246.656	6195592.50	1.0009	A	0.8
6	☐	500.000	495.205	12240717.63	2.0094	A	2.6
7	☐	1000.000	1003.556	24596820.34	4.0721	A	1.5
8	☐			5527.24	0.0010	P	24.6

$$y = 0.0041 * x + 6.4608E-006$$

$$R = 1.0000$$

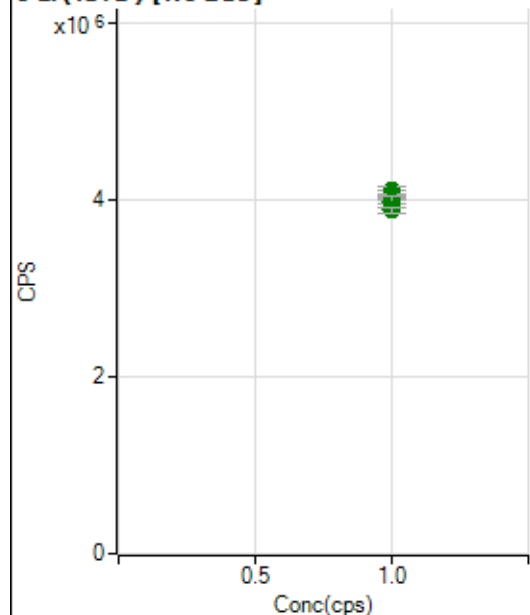
$$DL = 0.00272$$

$$BEC = 0.001592$$

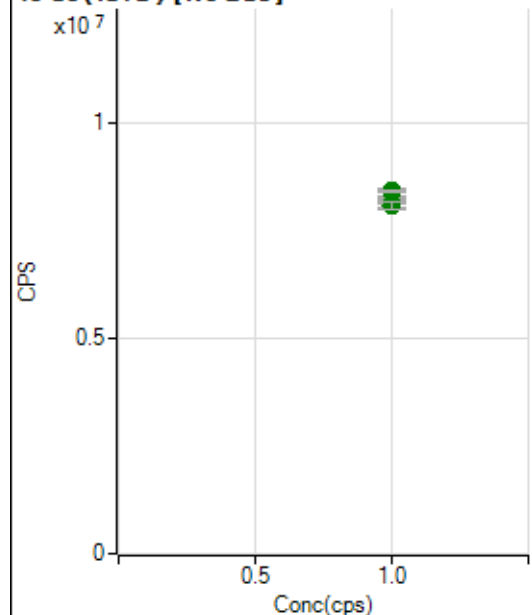
Weight: <None>

Min Conc: 0

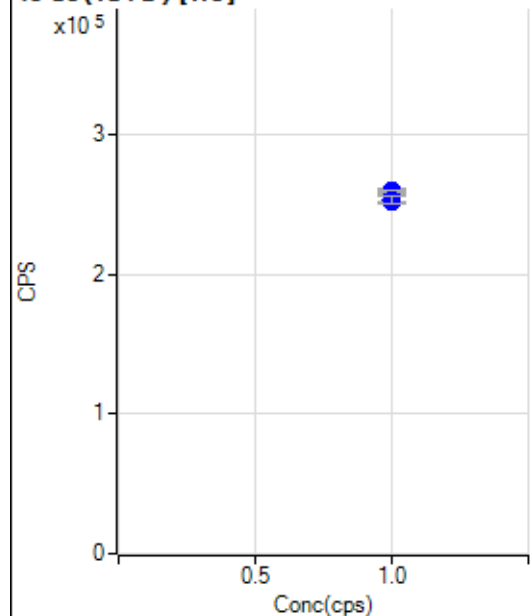
6 Li (ISTD) [No Gas]



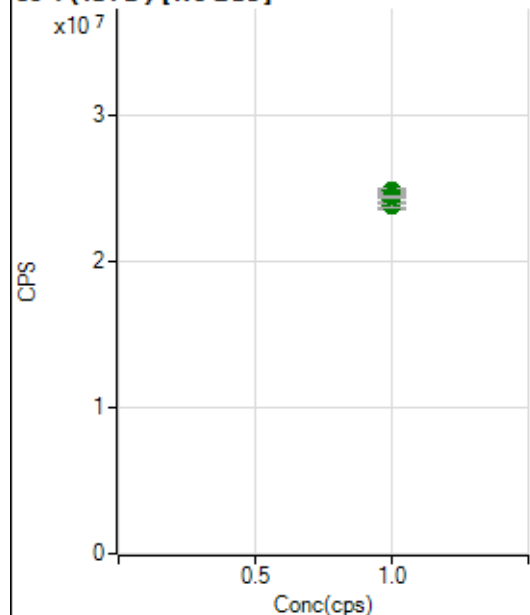
	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		3909818.91		A	2.7
2	☐	1.000		4033323.24		A	1.5
3	☐	1.000		4108030.25		A	2.8
4	☐	1.000		4034143.97		A	3.6
5	☐	1.000		4067899.69		A	2.2
6	☐	1.000		4061549.19		A	0.9
7	☐	1.000		3988751.49		A	3.0
8	☐	1.000		3887933.03		A	1.3

45 Sc (ISTD) [No Gas]

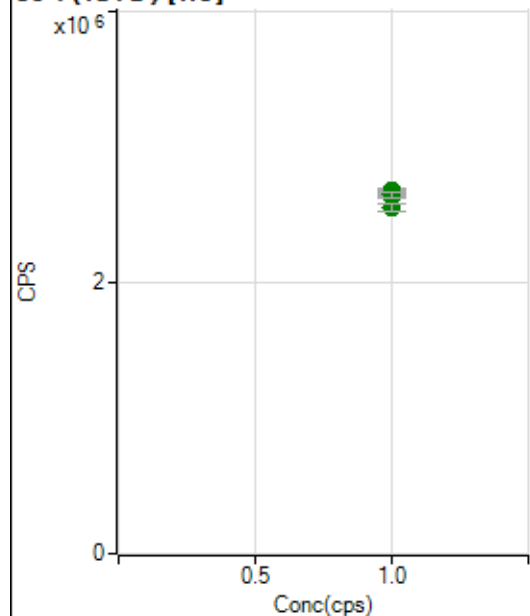
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		8085649.53		A	2.7
2	☐	1.000		8073313.00		A	1.9
3	☐	1.000		8417860.57		A	0.9
4	☐	1.000		8154775.16		A	1.3
5	☐	1.000		8272077.31		A	0.9
6	☐	1.000		8389940.84		A	0.5
7	☐	1.000		8095890.23		A	2.1
8	☐	1.000		8069359.95		A	2.0

45 Sc (ISTD) [He]

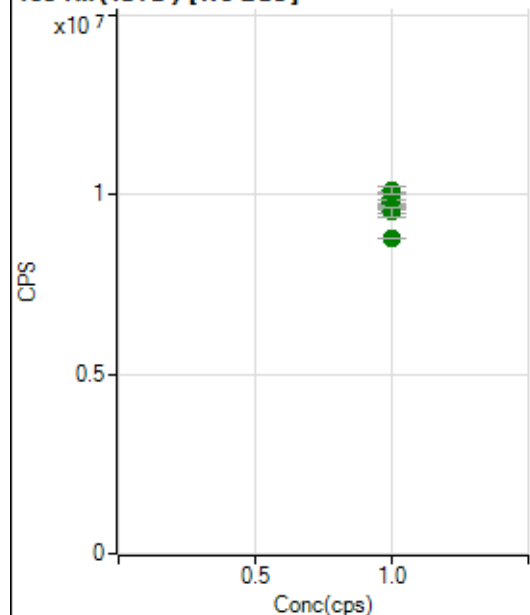
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		256745.01		P	0.8
2	☐	1.000		259618.31		P	1.5
3	☐	1.000		257832.69		P	1.3
4	☐	1.000		257046.69		P	0.6
5	☐	1.000		259217.01		P	1.8
6	☐	1.000		259313.86		P	0.7
7	☐	1.000		251700.71		P	0.3
8	☐	1.000		253072.39		P	2.5

89 Y (ISTD) [No Gas]

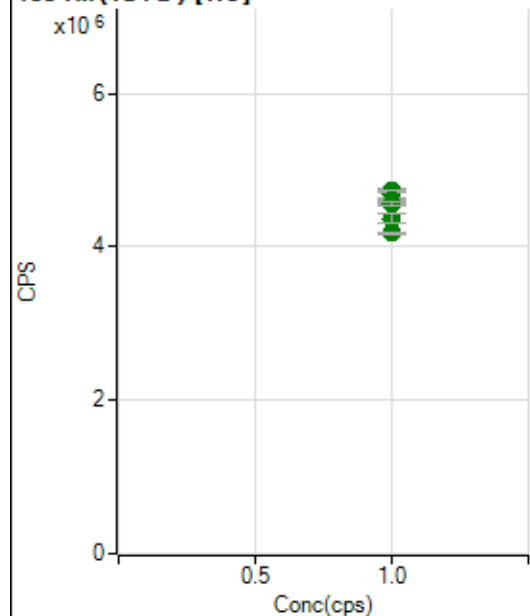
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		24194552.97		A	1.5
2	☐	1.000		24194256.86		A	6.0
3	☐	1.000		24270187.14		A	2.0
4	☐	1.000		23824648.26		A	1.2
5	☐	1.000		24537226.86		A	2.3
6	☐	1.000		24752753.80		A	0.3
7	☐	1.000		24774441.58		A	1.5
8	☐	1.000		24383540.47		A	0.7

89 Y (ISTD) [He]

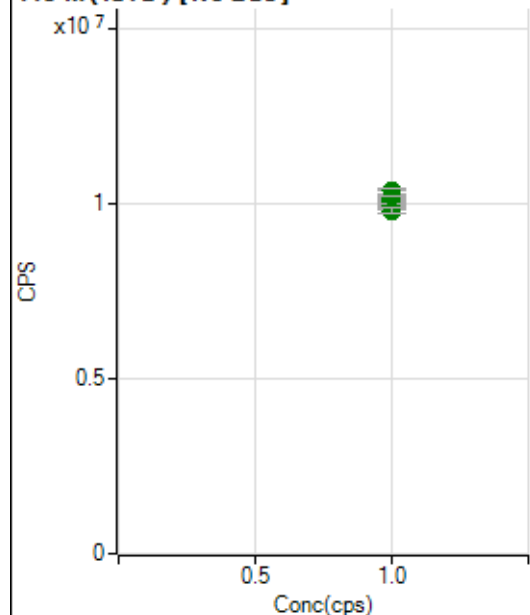
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2643842.16		A	0.6
2	☐	1.000		2680663.87		A	1.1
3	☐	1.000		2671250.27		A	0.6
4	☐	1.000		2639053.50		A	0.2
5	☐	1.000		2668767.25		A	1.3
6	☐	1.000		2654540.14		A	1.8
7	☐	1.000		2559783.49		A	2.4
8	☐	1.000		2653863.21		A	1.5

103 Rh (ISTD) [No Gas]

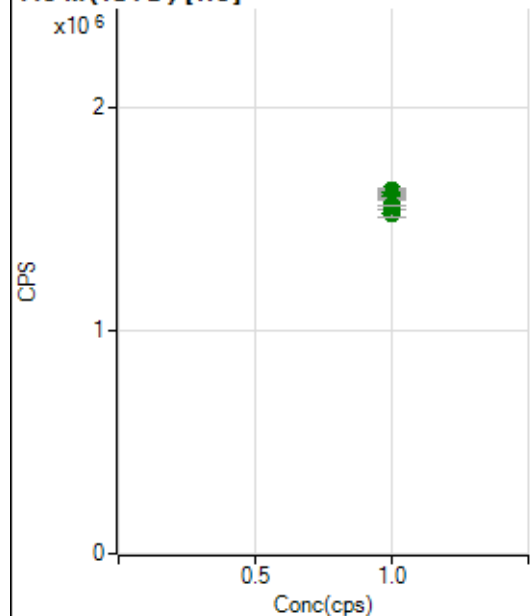
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		9823487.20		A	1.2
2	☐	1.000		9896303.35		A	3.5
3	☐	1.000		10108703.96		A	2.0
4	☐	1.000		9576375.74		A	1.5
5	☐	1.000		9749147.79		A	2.7
6	☐	1.000		9652443.88		A	0.6
7	☐	1.000		9526089.71		A	2.6
8	☐	1.000		8777829.62		A	0.2

103 Rh (ISTD) [He]

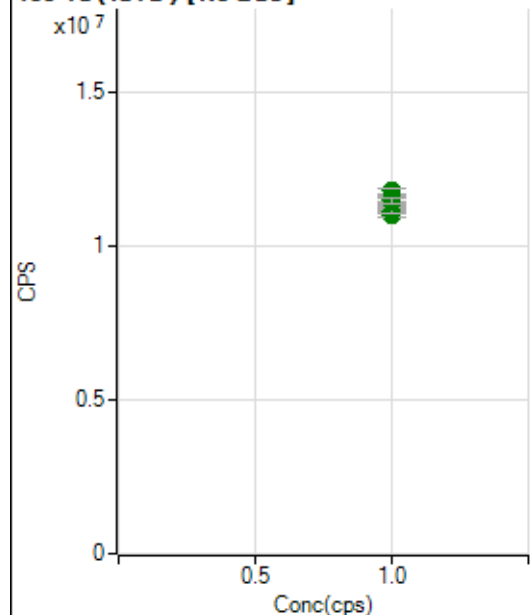
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4679258.23		A	1.7
2	☐	1.000		4730383.92		A	1.0
3	☐	1.000		4722058.40		A	0.7
4	☐	1.000		4588692.88		A	0.6
5	☐	1.000		4620437.08		A	0.6
6	☐	1.000		4554049.00		A	1.1
7	☐	1.000		4370100.35		A	2.6
8	☐	1.000		4178094.59		A	0.9

115 In (ISTD) [No Gas]

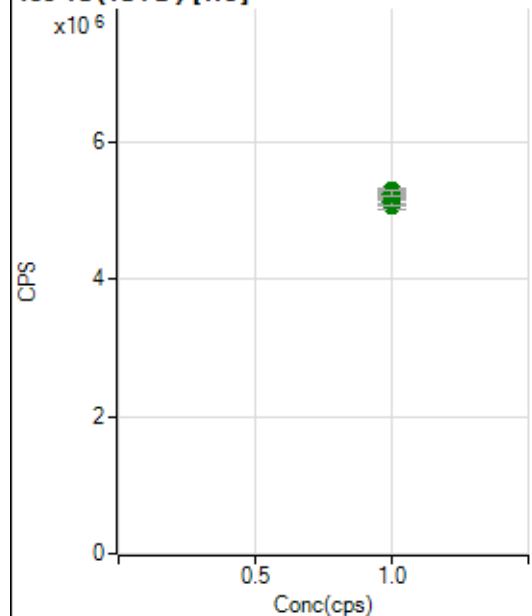
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		10223621.57		A	3.6
2	☐	1.000		10055778.88		A	1.3
3	☐	1.000		10372403.22		A	1.6
4	☐	1.000		10043319.94		A	2.2
5	☐	1.000		10166135.44		A	1.1
6	☐	1.000		10106995.68		A	2.3
7	☐	1.000		9938690.49		A	1.8
8	☐	1.000		9803927.55		A	1.5

115 In (ISTD) [He]

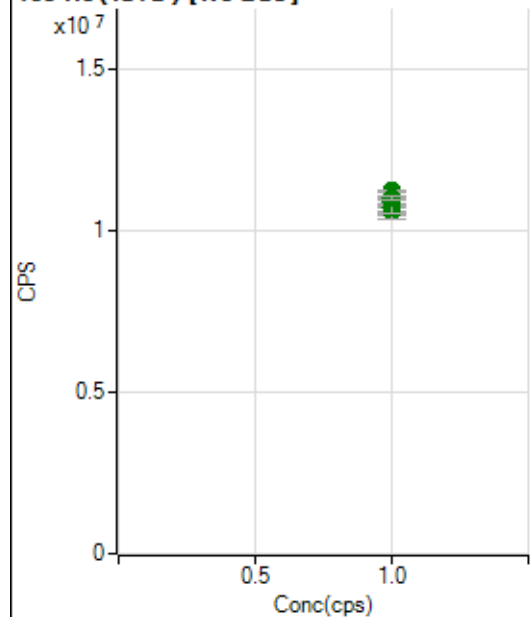
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1629798.95		A	0.7
2	☐	1.000		1626442.81		A	2.2
3	☐	1.000		1619987.92		A	2.1
4	☐	1.000		1613532.48		A	2.1
5	☐	1.000		1603859.56		A	1.3
6	☐	1.000		1595980.81		A	0.5
7	☐	1.000		1530697.67		A	2.5
8	☐	1.000		1562868.20		A	0.4

159 Tb (ISTD) [No Gas]

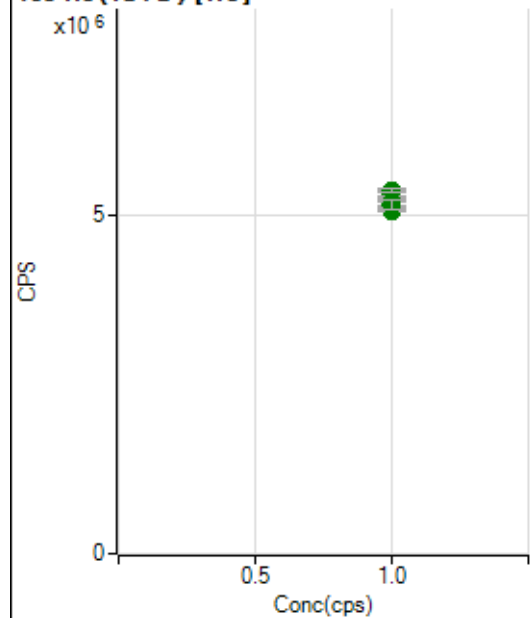
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		11264045.39		A	1.2
2	☐	1.000		11040000.95		A	1.8
3	☐	1.000		11508912.19		A	3.1
4	☐	1.000		11155425.95		A	1.8
5	☐	1.000		11450048.58		A	0.7
6	☐	1.000		11811875.80		A	1.7
7	☐	1.000		11557332.05		A	1.9
8	☐	1.000		11495790.52		A	2.0

159 Tb (ISTD) [He]

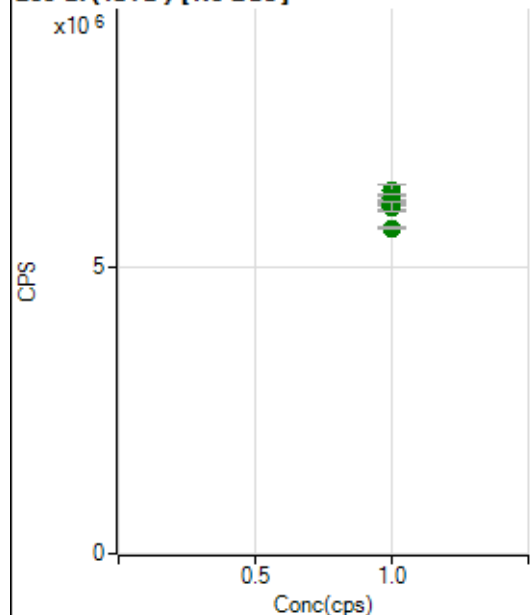
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5168059.92		A	2.5
2	☐	1.000		5187056.73		A	1.3
3	☐	1.000		5073222.11		A	2.9
4	☐	1.000		5215208.15		A	1.2
5	☐	1.000		5235518.84		A	0.5
6	☐	1.000		5281085.41		A	1.2
7	☐	1.000		5125358.33		A	2.3
8	☐	1.000		5248049.40		A	1.3

165 Ho (ISTD) [No Gas]

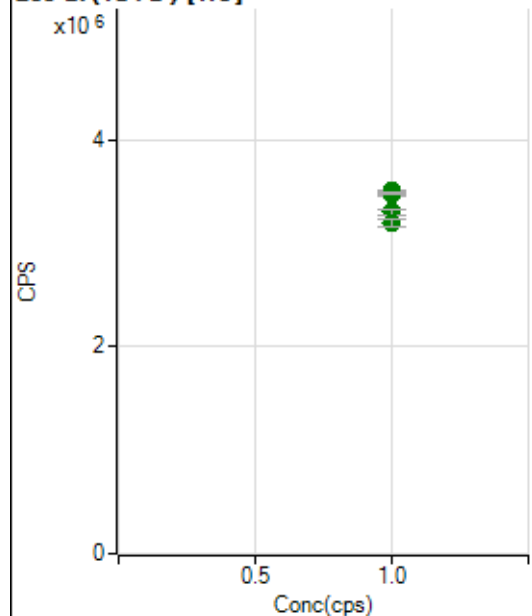
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		10575189.91		A	2.4
2	☐	1.000		10556842.86		A	3.7
3	☐	1.000		10907143.47		A	2.7
4	☐	1.000		10704939.73		A	2.0
5	☐	1.000		10712603.11		A	3.7
6	☐	1.000		11082064.66		A	1.7
7	☐	1.000		11218651.81		A	0.5
8	☐	1.000		10997238.79		A	0.9

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5185189.96		A	2.1
2	☐	1.000		5069594.58		A	0.4
3	☐	1.000		5230956.38		A	0.6
4	☐	1.000		5142963.74		A	0.5
5	☐	1.000		5328160.06		A	1.8
6	☐	1.000		5333658.50		A	1.1
7	☐	1.000		5161361.56		A	2.5
8	☐	1.000		5372128.78		A	1.1

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6099931.65		A	3.9
2	☐	1.000		6030398.32		A	2.3
3	☐	1.000		6314127.47		A	3.1
4	☐	1.000		6140786.43		A	0.9
5	☐	1.000		6190442.62		A	2.4
6	☐	1.000		6091859.63		A	0.6
7	☐	1.000		6041037.13		A	2.4
8	☐	1.000		5664627.41		A	0.5

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3477450.12		A	1.2
2	☐	1.000		3481550.16		A	1.0
3	☐	1.000		3490466.20		A	0.7
4	☐	1.000		3480689.39		A	0.8
5	☐	1.000		3506866.16		A	0.3
6	☐	1.000		3483987.73		A	0.6
7	☐	1.000		3304811.24		A	1.8
8	☐	1.000		3193612.73		A	2.1

US EPA Tune Check Report

Operator Name Jaswal
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\P8102421-MS.b
Acq. Date-Time 2021-10-24 12:05:07
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		17231	172305.50			0.402	5.000
24		147157	1471567.46			0.932	5.000
25		19777	197768.75			0.497	5.000
26		22605	226048.90			0.678	5.000
59		39438	394379.75			0.099	5.000
113		16153	161528.24			0.585	5.000
115		51998	519982.25			0.603	5.000
206		18440	184401.06			1.112	5.000
207		15451	154510.05			1.427	5.000
208		37948	379476.96			1.214	5.000
220		1	6.10			33.496	

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

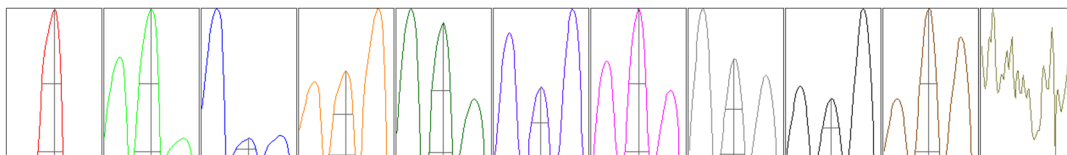
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	17256	17292	17199	17281	17124
24	149215	145718	147800	146476	146575
25	19828	19829	19717	19875	19635
26	22632	22625	22399	22822	22547
59	39418	39476	39439	39383	39474
113	16031	16200	16092	16168	16274
115	52312	52357	51727	51721	51874
206	18372	18325	18342	18356	18806
207	15394	15358	15408	15263	15832
208	37633	37707	37810	37829	38760

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Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
220	1	1	1	1	0

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	30497.04	9.05	8.90 - 9.10	
24	252650.07	24.00	23.90 - 24.10	
25	34161.07	25.00	24.90 - 25.10	
26	38921.92	26.00	25.90 - 26.10	
59	72976.09	59.00	58.90 - 59.10	
113	32042.65	113.00	112.90 - 113.10	
115	102694.35	115.05	114.90 - 115.10	
206	35846.95	205.95	205.90 - 206.10	
207	30146.24	206.95	206.90 - 207.10	
208	74635.04	207.95	207.90 - 208.10	
220			-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.61	0.782	0.900	
24	0.61	0.820	0.900	
25	0.62	0.785	0.900	
26	0.62	0.822	0.900	
59	0.58	0.739	0.900	
113	0.52	0.690	0.900	
115	0.53	0.759	0.900	
206	0.53	0.771	0.900	
207	0.53	0.774	0.900	
208	0.53	0.775	0.900	
220				

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode --- Nebulizer Gas 0.73 L/min Dilution Gas 0.40 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	9.5 V	Deflect	15.0 V
Extract 2	-215.0 V	Cell Entrance	-30 V	Plate Bias	-50 V
Omega Bias	-95 V	Cell Exit	-50 V		

Cell Parameters

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

QP Parameters

Mass Gain	124	Axis Gain	0.9991	QP Bias	-4.0 V
Mass Offset	124	Axis Offset	0.00		

Hardware Settings

Torch

Torch H	0.9 mm	Torch V	-0.8 mm
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EM

Discriminator	3.9 mV	Analog HV	2261 V	Pulse HV	1550 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		8854	88537.97			0.543	
89		24396	243956.75			0.288	
205		15371	153714.36			0.840	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	8802	8918	8835	8889	8825
89	24452	24397	24294	24469	24367
205	15209	15549	15320	15442	15337

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.75 L/min	Dilution Gas	0.40 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	9.5 V	Deflect	4.4 V
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US EPA Tune Check Report

Extract 2	-215.0 V	Cell Entrance	-50 V	Plate Bias	-60 V
Omega Bias	-95 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	124	Axis Gain	0.9991	QP Bias	-13.0 V
Mass Offset	124	Axis Offset	0.00		
Hardware Settings					
Torch					
Torch H	0.9 mm	Torch V	-0.8 mm		
EM					
Discriminator	3.9 mV	Analog HV	2261 V	Pulse HV	1550 V