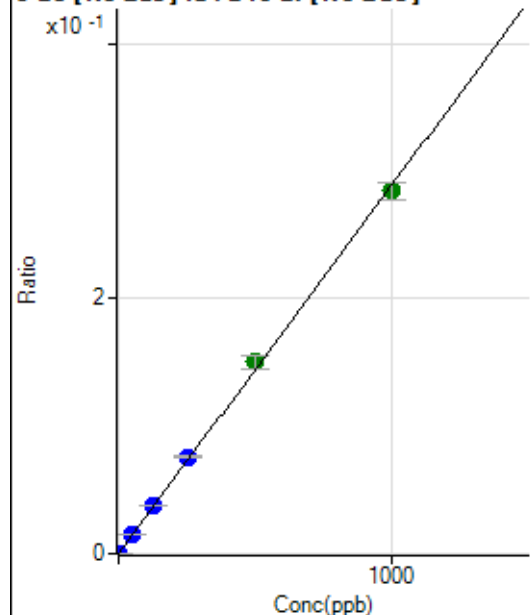


Batch Folder: D:\Agilent\ICPMH\1\DATA\P8091521MS.b\
Analysis File: P8091521MS.batch.bin
DA Date-Time: 2021-11-02 13:54:13
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.d	S00	2021-09-15 10:15:21
2	006CALS.d	S02	2021-09-15 10:21:30
3	007CALS.d	S03	2021-09-15 10:24:34
4	008CALS.d	S04	2021-09-15 10:27:39
5	009CALS.d	S05	2021-09-15 10:30:42
6	010CALS.d	S06	2021-09-15 10:33:47
7	012CALS.d	S07	2021-09-15 10:39:56
8	013CALS.d	S08	2021-09-15 10:43:00

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	30.66	0.0000	P	3.0
2	☐	1.000	1.022	3489.07	0.0003	P	3.2
3	☐	50.000	50.770	172932.92	0.0147	P	1.7
4	☐	125.000	128.941	424792.17	0.0372	P	0.7
5	☐	250.000	263.087	846136.86	0.0759	P	2.5
6	☐	500.000	521.207	1695481.93	0.1504	A	6.8
7	☐	1000.000	985.594	3226862.67	0.2844	A	4.8
8	☐			307.28	0.0000	P	26.0

$$y = 2.8860\text{E-}004 * x + 2.6322\text{E-}006$$

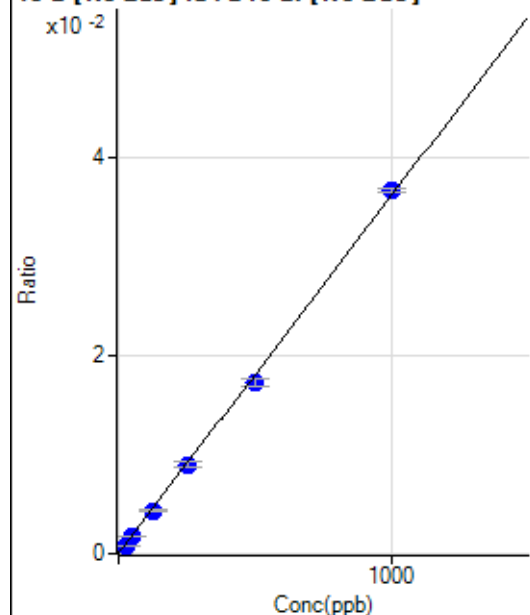
$$R = 0.9996$$

$$DL = 0.0008344$$

$$BEC = 0.009121$$

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	469.92	0.0000	P	8.7
2	☐	25.000	21.864	9742.66	0.0008	P	5.3
3	☐	50.000	45.993	20110.45	0.0017	P	3.8
4	☐	125.000	118.146	49230.31	0.0043	P	5.0
5	☐	250.000	248.243	100512.00	0.0090	P	4.8
6	☐	500.000	477.575	195388.80	0.0173	P	4.0
7	☐	1000.000	1012.787	416486.15	0.0367	P	0.9
8	☐			42067.78	0.0040	P	12.9

$$y = 3.6169\text{E-}005 * x + 4.0246\text{E-}005$$

$$R = 0.9996$$

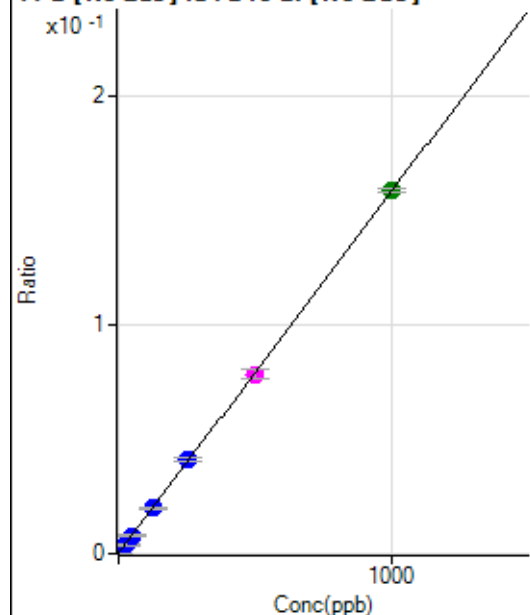
$$DL = 0.2905$$

$$BEC = 1.113$$

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	2189.74	0.0002	P	5.5
2	☐	25.000	23.090	45079.28	0.0038	P	4.4
3	☐	50.000	48.549	92972.25	0.0079	P	4.0
4	☐	125.000	124.086	226435.06	0.0198	P	3.4
5	☐	250.000	257.756	457028.36	0.0410	P	4.4
6	☐	500.000	493.520	883716.21	0.0783	M	5.5
7	☐	1000.000	1001.536	1803308.97	0.1588	A	1.2
8	☐			193924.53	0.0184	P	13.6

$$y = 1.5837E-004 * x + 1.8822E-004$$

$$R = 0.9999$$

$$DL = 0.1977$$

$$BEC = 1.189$$

Weight: <None>

Min Conc: 0

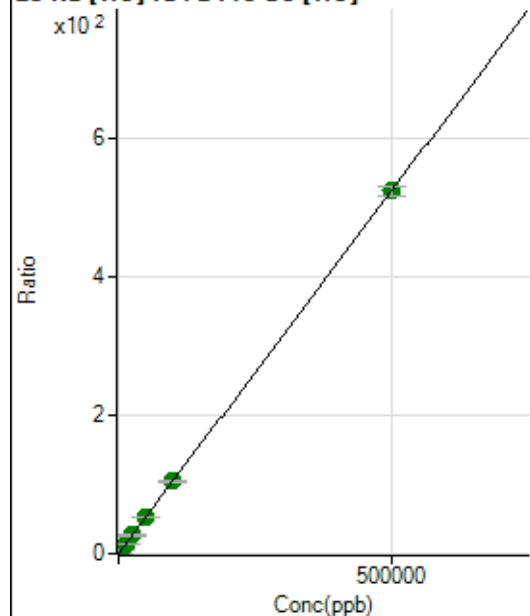
12 C [No Gas] No available calibration points



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			4731422.50		A	0.6
2	☐			5587631.24		A	0.3
3	☐			6003287.46		A	1.2
4	☐			6100890.63		A	2.2
5	☐			6452085.39		A	2.6
6	☐			7009782.45		A	3.3
7	☐			8012497.49		A	1.8
8	☐			6533658.61		A	1.2

12 C [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			49143.89		P	1.4
2	☐			58843.32		P	0.7
3	☐			64679.18		P	1.7
4	☐			67159.31		P	3.2
5	☐			72339.56		P	1.7
6	☐			79299.97		P	1.2
7	☐			91498.49		P	2.6
8	☐			77934.41		P	1.1

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	17560.91	0.0500	P	1.0
2	☐	500.000	561.094	213150.52	0.6389	P	7.9
3	☐	5000.000	5274.515	1949230.79	5.5860	A	0.9
4	☐	12500.000	12648.468	4731074.24	13.3256	A	1.0
5	☐	25000.000	25268.958	9569899.87	26.5717	A	3.1
6	☐	50000.000	50891.923	18750016.04	53.4650	A	2.1
7	☐	100000.00	99427.670	38980911.98	104.4071	A	4.1
8	☐	500000.00	500005.30	190564475.0	524.8445	A	2.4

$$y = 0.0010 * x + 0.0500$$

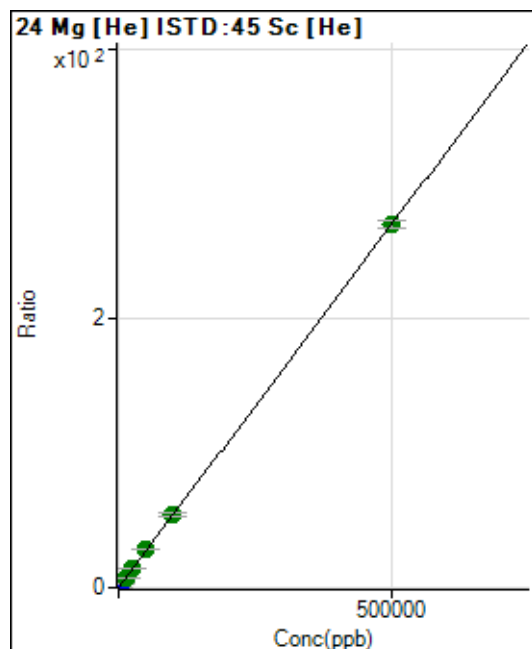
$$R = 1.0000$$

$$DL = 1.37$$

$$BEC = 47.65$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	1500.12	0.0043	P	15.3
2	☐	500.000	557.377	101726.95	0.3048	P	7.2
3	☐	5000.000	5344.896	1006922.77	2.8861	P	2.8
4	☐	12500.000	13157.146	2520005.46	7.0983	A	1.7
5	☐	25000.000	25644.295	4980806.23	13.8311	A	3.2
6	☐	50000.000	52351.418	9900219.75	28.2309	A	2.3
7	☐	100000.00	100718.46	20279519.38	54.3093	A	3.1
8	☐	500000.00	499569.01	97805158.44	269.3601	A	2.1

$$y = 5.3918\text{E-}004 * x + 0.0043$$

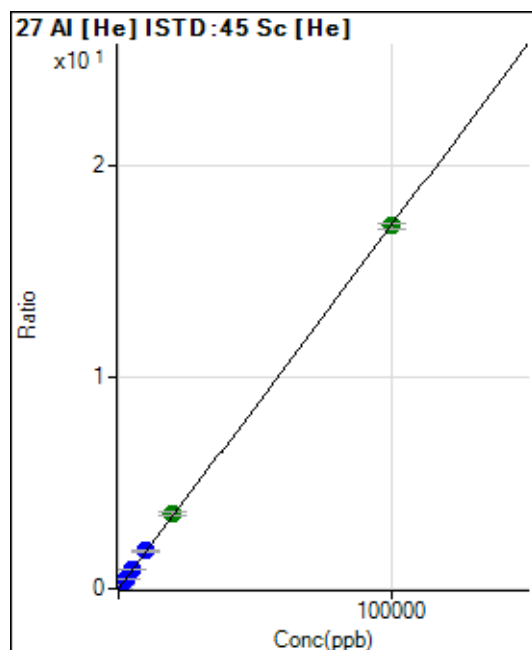
$$R = 1.0000$$

$$DL = 3.62$$

$$BEC = 7.91$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	174.98	0.0005	P	8.6
2	☐	20.000	22.685	1465.32	0.0044	P	11.7
3	☐	1000.000	1064.534	64055.38	0.1836	P	2.4
4	☐	2500.000	2600.835	158983.65	0.4478	P	1.9
5	☐	5000.000	5124.950	317551.36	0.8820	P	3.8
6	☐	10000.000	10428.611	629022.14	1.7942	P	3.5
7	☐	20000.000	20721.584	1330863.64	3.5645	A	3.9
8	☐	100000.00	99803.408	6233555.09	17.1661	A	1.9

$$y = 1.7199\text{E-}004 * x + 4.9866\text{E-}004$$

$$R = 1.0000$$

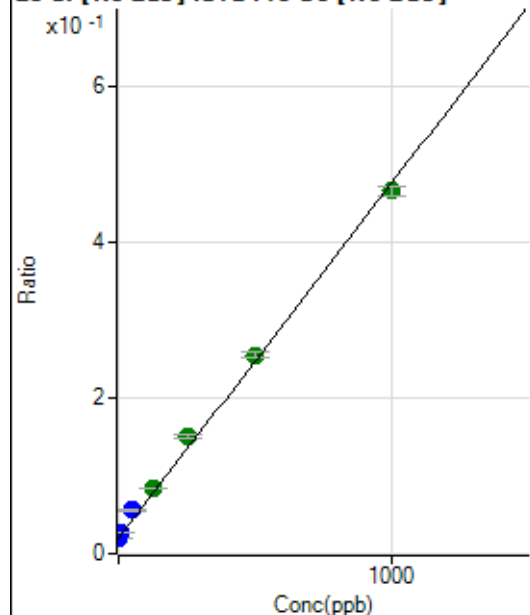
$$DL = 0.7468$$

$$BEC = 2.899$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	270308.90	0.0198	P	5.6
2	☐	10.000	16.825	380731.76	0.0275	P	2.1
3	☐	50.000	78.861	775266.45	0.0558	P	2.1
4	☐	125.000	140.616	1140976.56	0.0840	A	2.7
5	☐	250.000	288.829	2020665.15	0.1517	A	3.4
6	☐	500.000	516.448	3501037.36	0.2556	A	2.3
7	☐	1000.000	978.605	6610756.40	0.4667	A	2.6
8	☐			1038143.47	0.0773	A	5.3

$$y = 4.5665\text{E-}004 * x + 0.0198$$

$$R = 0.9989$$

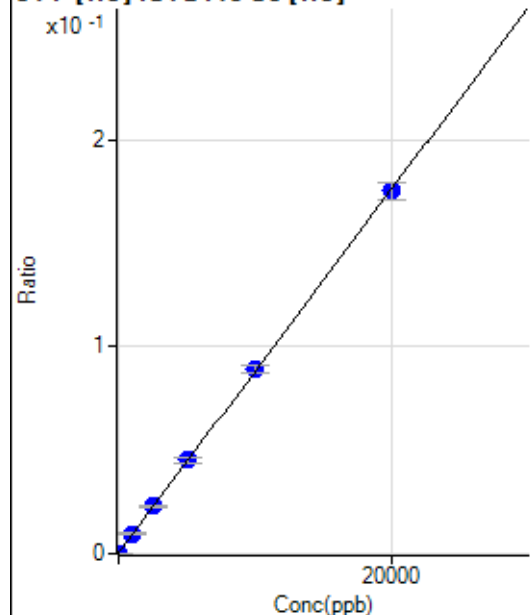
$$DL = 7.3$$

$$BEC = 43.35$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.745	119.45	0.0003	P	13.7
2	☐	0.000	-0.745	108.34	0.0003	P	22.5
3	☐	1000.000	1033.818	3283.79	0.0094	P	8.5
4	☐	2500.000	2597.184	8219.20	0.0232	P	3.6
5	☐	5000.000	5094.847	16234.48	0.0451	P	6.0
6	☐	10000.000	10107.585	31253.82	0.0891	P	3.7
7	☐	20000.000	19908.657	65428.91	0.1753	P	5.0
8	☐			111.11	0.0003	P	23.6

$$y = 8.7868\text{E-}006 * x + 3.3336\text{E-}004$$

$$R = 1.0000$$

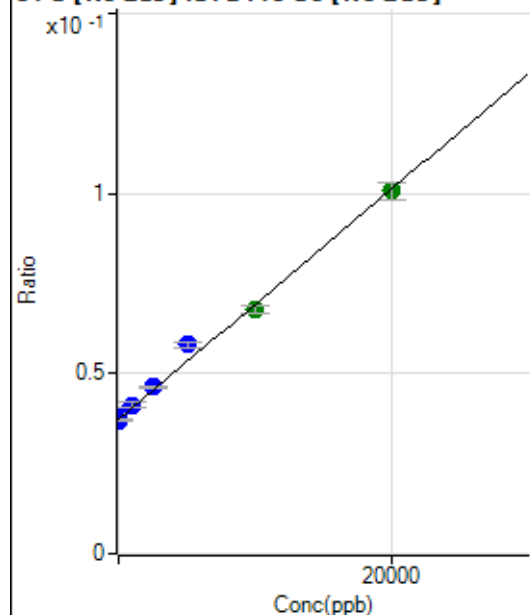
$$DL = 20.5$$

$$BEC = 37.94$$

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	127.002	515231.20	0.0377	P	5.5
2	☐	0.000	-127.002	511550.84	0.0369	P	1.6
3	☐	1000.000	1271.672	574817.79	0.0414	P	4.2
4	☐	2500.000	2792.581	628398.26	0.0463	P	1.4
5	☐	5000.000	6462.188	772999.32	0.0580	P	2.2
6	☐	10000.000	9515.068	928326.41	0.0678	A	3.4
7	☐	20000.000	19826.763	1427360.40	0.1008	A	4.9
8	☐			420958.49	0.0314	P	1.4

$$y = 3.2032\text{E-}006 * x + 0.0373$$

$$R = 0.9965$$

$$DL = 1240$$

$$BEC = 1.165\text{E}+04$$

Weight: <None>

Min Conc: 0

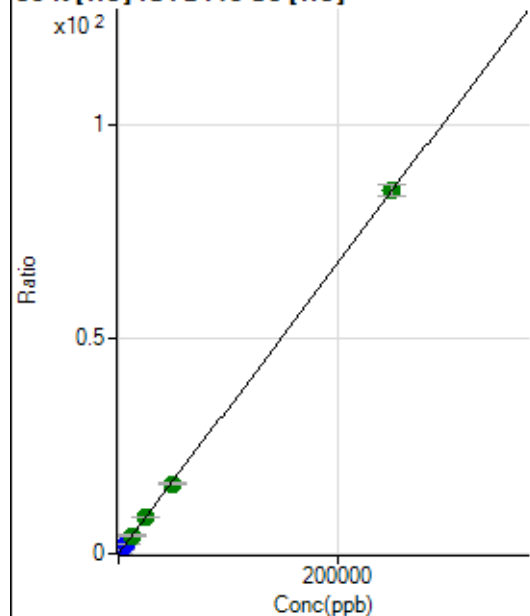
35 Cl [No Gas] No available calibration points



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			312339.61		P	0.3
2	☐			313903.11		P	1.1
3	☐			312910.77		P	0.8
4	☐			303090.71		P	0.4
5	☐			303711.58		P	0.8
6	☐			308314.19		P	0.6
7	☐			321497.27		P	0.5
8	☐			336368.10		P	0.9

35 Cl [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1802.93		P	8.1
2	☐			1733.48		P	6.7
3	☐			1880.73		P	6.2
4	☐			1725.16		P	5.1
5	☐			1639.02		P	7.6
6	☐			1677.92		P	6.9
7	☐			1708.48		P	8.5
8	☐			2119.67		P	9.5

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	10187.16	0.0290	P	3.7
2	☐	500.000	531.739	69531.91	0.2084	P	7.5
3	☐	2500.000	2538.526	308885.63	0.8853	P	2.1
4	☐	6250.000	6234.484	756869.65	2.1319	P	1.5
5	☐	12500.000	12328.449	1507530.84	4.1874	A	4.2
6	☐	25000.000	24891.746	2954495.34	8.4249	A	2.2
7	☐	50000.000	48115.519	6070190.54	16.2583	A	3.9
8	☐	250000.00	250396.23	30672917.70	84.4870	A	3.1

$$y = 3.3730\text{E-}004 * x + 0.0290$$

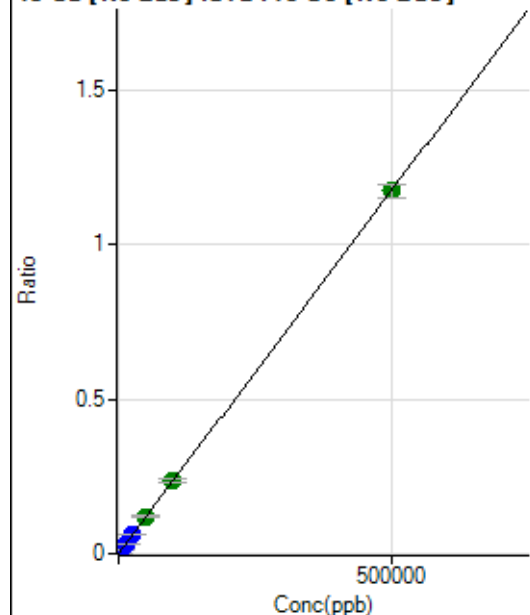
$$R = 1.0000$$

$$DL = 9.664$$

$$BEC = 86.06$$

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	393.37	0.0000	P	8.2
2	☐	500.000	500.909	16690.31	0.0012	P	3.2
3	☐	5000.000	4984.207	162893.86	0.0117	P	3.8
4	☐	12500.000	12543.689	400378.99	0.0295	P	0.4
5	☐	25000.000	25944.632	811932.40	0.0609	P	1.7
6	☐	50000.000	50892.380	1635638.88	0.1195	A	5.3
7	☐	100000.00	100584.42	3343688.87	0.2362	A	4.7
8	☐	500000.00	499745.71	15739374.98	1.1734	A	3.8

$$y = 2.3479\text{E-}006 * x + 2.8740\text{E-}005$$

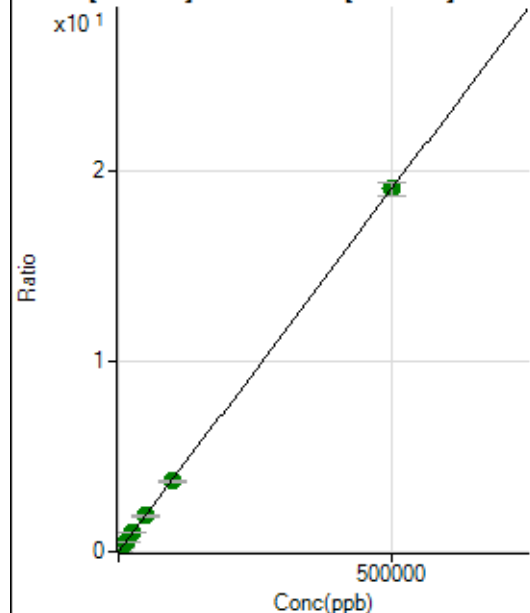
$$R = 1.0000$$

$$DL = 3.002$$

$$BEC = 12.24$$

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	20216.65	0.0015	P	3.8
2	☐	500.000	496.339	281897.32	0.0203	P	2.0
3	☐	5000.000	4949.222	2633087.86	0.1896	A	3.4
4	☐	12500.000	12365.667	6403737.84	0.4715	A	1.0
5	☐	25000.000	25566.591	12967042.22	0.9733	A	1.8
6	☐	50000.000	50035.180	26047492.94	1.9034	A	5.4
7	☐	100000.00	97466.452	52483571.98	3.7064	A	3.9
8	☐	500000.00	500478.73	255201267.4	19.0256	A	3.8

$$y = 3.8012\text{E-}005 * x + 0.0015$$

$$R = 1.0000$$

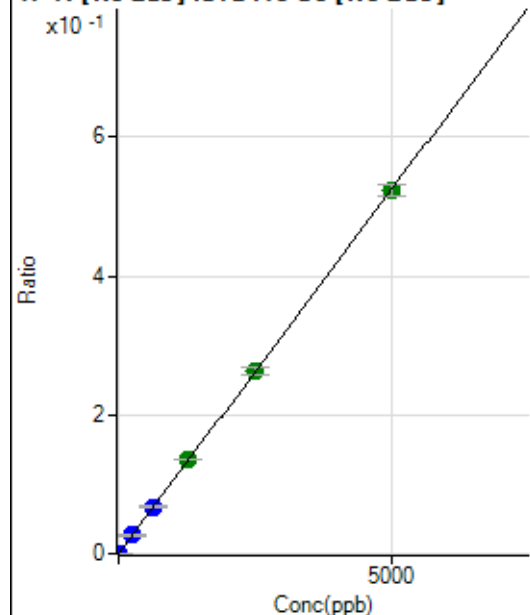
$$DL = 4.483$$

$$BEC = 38.92$$

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	127.78	0.0000	P	25.0
2	☐	5.000	5.265	7777.33	0.0006	P	2.7
3	☐	250.000	253.397	369104.02	0.0266	P	2.5
4	☐	625.000	644.540	917771.53	0.0676	P	1.5
5	☐	1250.000	1298.408	1813715.19	0.1361	A	0.8
6	☐	2500.000	2506.093	3595854.77	0.2627	A	4.9
7	☐	5000.000	4982.239	7397780.55	0.5223	A	3.1
8	☐			2722.55	0.0002	P	12.4

$$y = 1.0483\text{E-}004 * x + 9.4239\text{E-}006$$

$$R = 0.9999$$

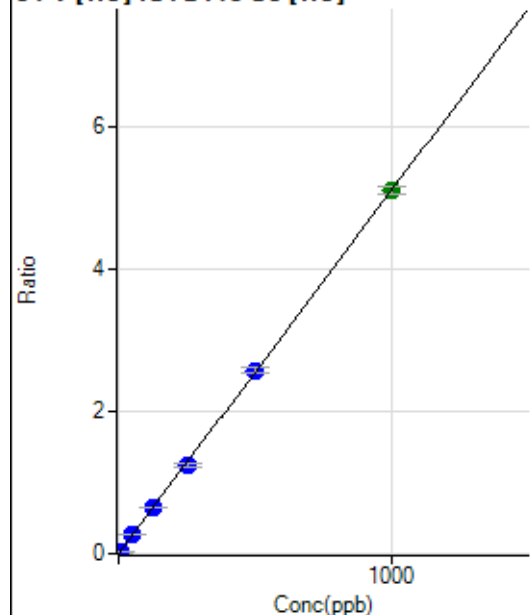
$$DL = 0.06734$$

$$BEC = 0.08989$$

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	1.11	0.0000	P	173.
2	☐	5.000	5.409	9231.95	0.0277	P	7.0
3	☐	50.000	50.944	90882.86	0.2605	P	2.0
4	☐	125.000	125.552	227896.84	0.6419	P	1.8
5	☐	250.000	245.522	451949.29	1.2553	P	4.1
6	☐	500.000	504.459	904436.32	2.5792	P	2.6
7	☐	1000.000	998.772	1907169.81	5.1066	A	2.0
8	☐			230.00	0.0006	P	17.1

$$y = 0.0051 * x + 3.1799\text{E-}006$$

$$R = 1.0000$$

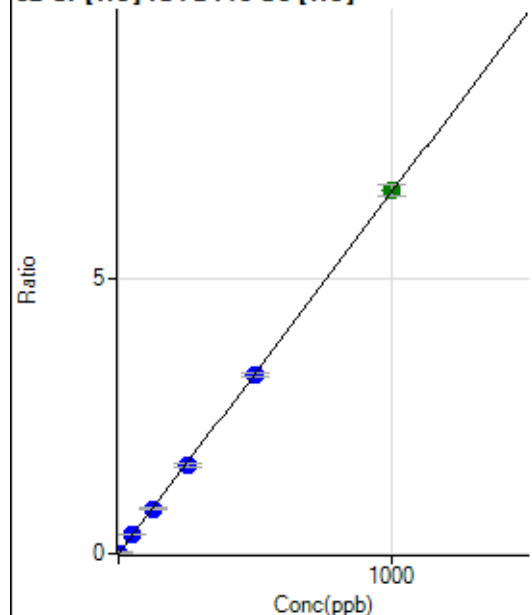
$$DL = 0.003232$$

$$BEC = 0.0006219$$

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	662.24	0.0019	P	12.5
2	☐	2.000	2.286	5635.61	0.0169	P	8.3
3	☐	50.000	51.385	118274.09	0.3390	P	2.7
4	☐	125.000	124.167	289867.40	0.8165	P	1.5
5	☐	250.000	242.732	573947.84	1.5943	P	4.4
6	☐	500.000	494.681	1138644.63	3.2472	P	2.6
7	☐	1000.000	1004.511	2461450.90	6.5919	A	3.1
8	☐			4947.58	0.0136	P	1.8

$$y = 0.0066 * x + 0.0019$$

$$R = 0.9999$$

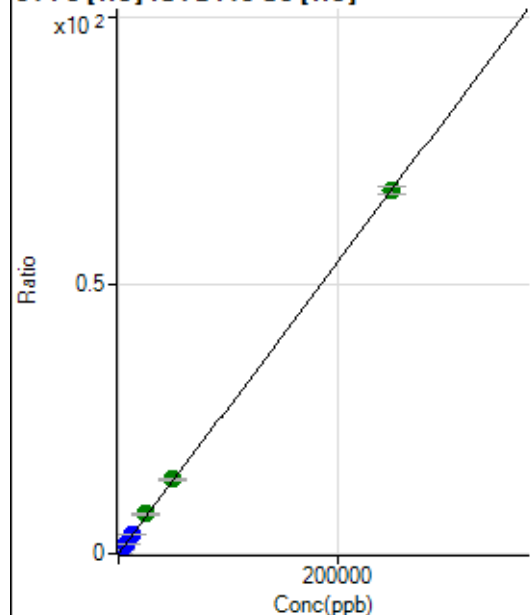
$$DL = 0.1076$$

$$BEC = 0.2879$$

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	616.69	0.0018	P	15.3
2	☐	50.000	57.980	5838.32	0.0175	P	4.6
3	☐	2500.000	2716.165	257407.74	0.7377	P	1.7
4	☐	6250.000	6660.311	641339.79	1.8064	P	1.3
5	☐	12500.000	12929.090	1262140.81	3.5050	P	3.5
6	☐	25000.000	27205.277	2585475.72	7.3733	A	2.8
7	☐	50000.000	50990.368	5160018.17	13.8181	A	2.8
8	☐	250000.00	249547.52	24552916.29	67.6191	A	2.2

$$y = 2.7096E-004 * x + 0.0018$$

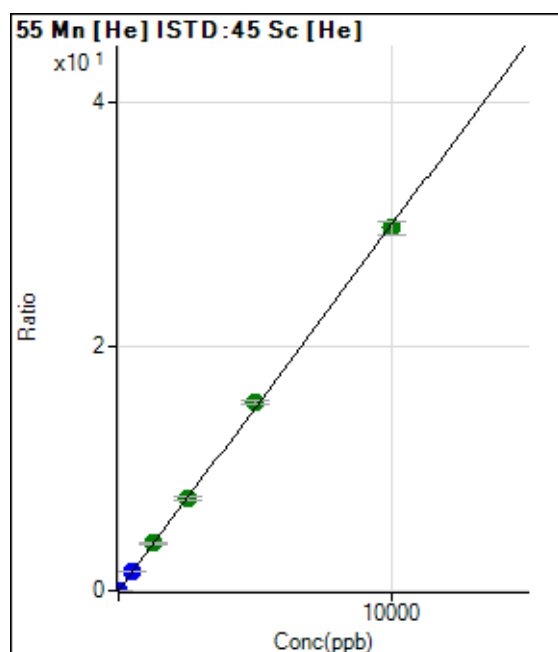
$$R = 1.0000$$

$$DL = 2.974$$

$$BEC = 6.474$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	42.22	0.0001	P	60.3
2	☐	1.000	1.136	1178.95	0.0035	P	6.4
3	☐	500.000	515.232	539525.44	1.5463	P	2.1
4	☐	1250.000	1292.128	1376758.27	3.8777	A	1.1
5	☐	2500.000	2533.975	2737287.77	7.6045	A	4.8
6	☐	5000.000	5134.184	5403265.10	15.4076	A	2.2
7	☐	10000.000	9918.387	11113552.82	29.7648	A	3.7
8	☐			9841.25	0.0271	P	4.4

$$y = 0.0030 * x + 1.2053E-004$$

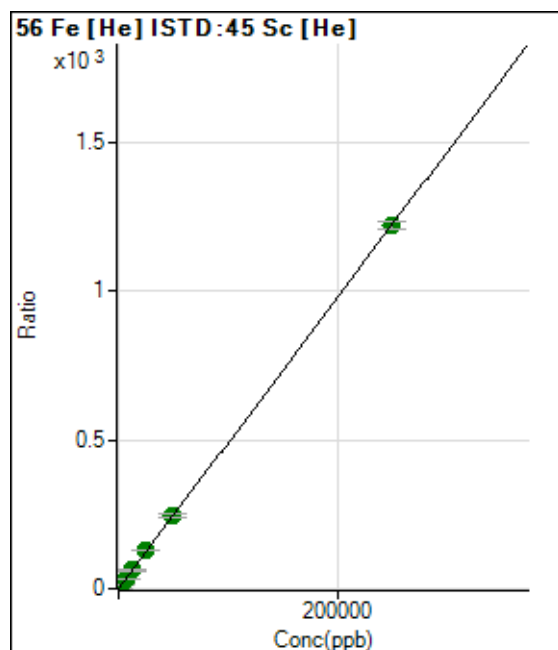
$$R = 0.9999$$

$$DL = 0.07271$$

$$BEC = 0.04016$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	7596.66	0.0216	P	16.2
2	☐	50.000	54.927	96744.77	0.2898	P	6.6
3	☐	2500.000	2672.209	4559595.93	13.0687	A	2.7
4	☐	6250.000	6531.399	11329561.02	31.9113	A	1.1
5	☐	12500.000	12871.269	22628647.03	62.8658	A	4.8
6	☐	25000.000	26280.606	44999496.84	128.3372	A	3.4
7	☐	50000.000	50534.065	92130255.76	246.7551	A	3.8
8	☐	250000.00	249737.80	442755802.4	1,219.371	A	2.1

$$y = 0.0049 * x + 0.0216$$

$$R = 1.0000$$

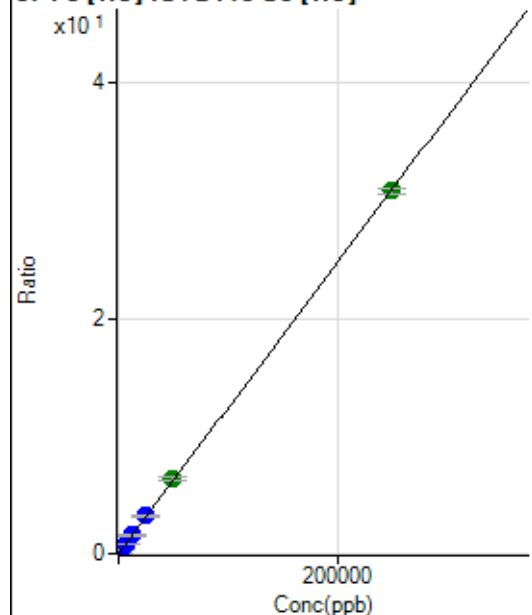
$$DL = 2.152$$

$$BEC = 4.425$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	229.63	0.0007	P	5.7
2	☐	50.000	55.298	2494.71	0.0075	P	12.0
3	☐	2500.000	2674.068	115607.92	0.3313	P	2.1
4	☐	6250.000	6487.262	285034.92	0.8029	P	2.0
5	☐	12500.000	12688.101	565134.80	1.5697	P	4.1
6	☐	25000.000	25890.755	1122804.11	3.2024	P	3.3
7	☐	50000.000	51563.143	2380702.83	6.3772	A	4.8
8	☐	250000.00	249581.21	11207798.05	30.8650	A	1.7

$$y = 1.2366\text{E-}004 * x + 6.5371\text{E-}004$$

$$R = 1.0000$$

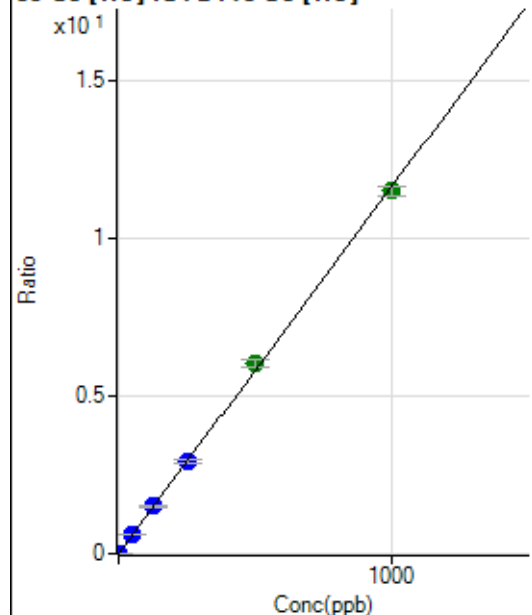
$$DL = 0.9101$$

$$BEC = 5.286$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	47.78	0.0001	P	5.7
2	☐	1.000	1.154	4524.09	0.0135	P	7.0
3	☐	50.000	52.618	213396.94	0.6116	P	2.0
4	☐	125.000	129.353	533697.94	1.5033	P	2.0
5	☐	250.000	252.094	1054632.70	2.9297	P	4.6
6	☐	500.000	519.027	2114862.61	6.0317	A	3.1
7	☐	1000.000	989.288	4293331.95	11.4966	A	2.6
8	☐			9854.60	0.0271	P	3.5

$$y = 0.0116 * x + 1.3617\text{E-}004$$

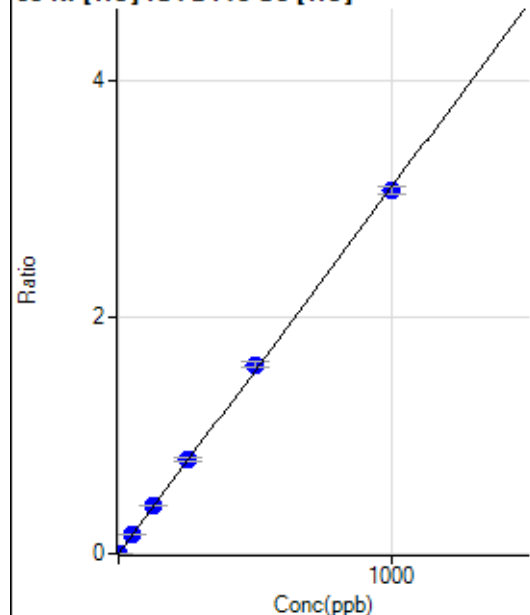
$$R = 0.9997$$

$$DL = 0.002016$$

$$BEC = 0.01172$$

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	25.55	0.0001	P	16.7
2	☐	1.000	1.232	1298.96	0.0039	P	11.1
3	☐	50.000	53.597	58063.45	0.1664	P	3.2
4	☐	125.000	131.345	144761.87	0.4078	P	1.5
5	☐	250.000	255.208	285237.87	0.7922	P	4.0
6	☐	500.000	515.628	561202.25	1.6005	P	2.9
7	☐	1000.000	989.911	1147488.04	3.0726	P	2.3
8	☐			3379.32	0.0093	P	3.9

$$y = 0.0031 * x + 7.2905E-005$$

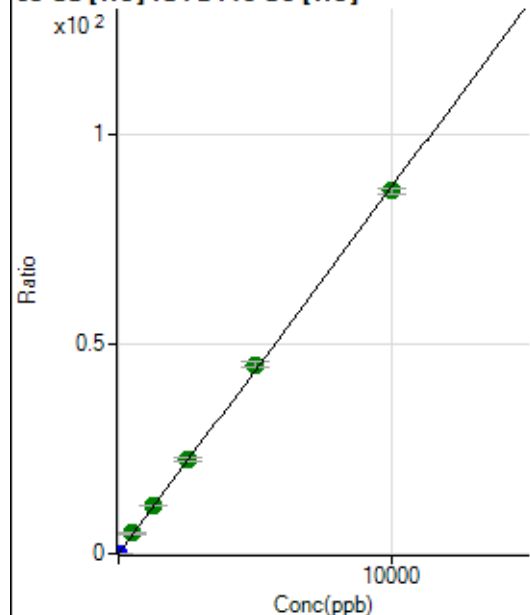
$$R = 0.9998$$

$$DL = 0.01179$$

$$BEC = 0.02349$$

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	668.91	0.0019	P	10.2
2	☐	2.000	2.132	6851.72	0.0205	P	7.2
3	☐	500.000	550.913	1680195.13	4.8160	A	3.2
4	☐	1250.000	1311.469	4068988.21	11.4621	A	2.4
5	☐	2500.000	2567.855	8077451.55	22.4409	A	5.0
6	☐	5000.000	5152.758	15788261.15	45.0288	A	3.1
7	☐	10000.000	9896.428	32300920.91	86.4810	A	1.6
8	☐			7457.58	0.0205	P	3.7

$$y = 0.0087 * x + 0.0019$$

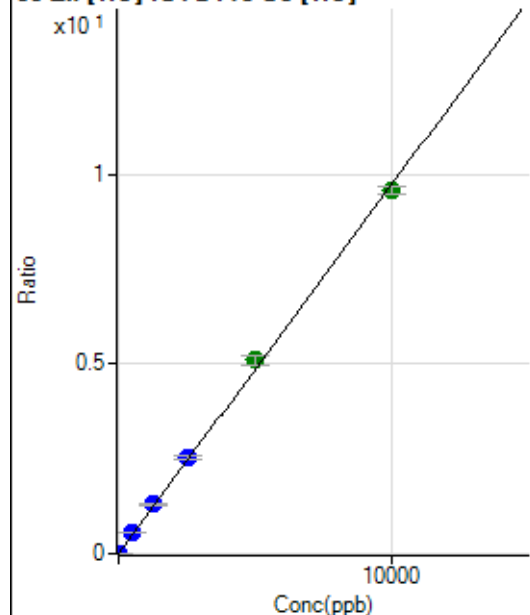
$$R = 0.9998$$

$$DL = 0.06664$$

$$BEC = 0.2177$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	193.15	0.0006	P	12.6
2	☐	2.000	2.558	1015.08	0.0030	P	2.6
3	☐	500.000	553.572	187759.61	0.5381	P	2.3
4	☐	1250.000	1337.899	461448.20	1.2998	P	2.0
5	☐	2500.000	2607.999	912312.78	2.5332	P	3.1
6	☐	5000.000	5244.091	1785399.41	5.0932	A	4.5
7	☐	10000.000	9837.289	3567998.38	9.5538	A	2.1
8	☐			9871.64	0.0272	P	0.1

$$y = 9.7113\text{E-}004 * x + 5.5021\text{E-}004$$

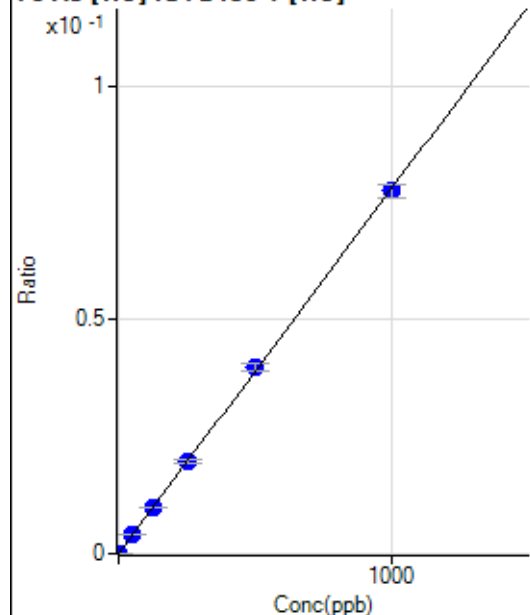
$$R = 0.9995$$

$$DL = 0.2144$$

$$BEC = 0.5666$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	4.00	0.0000	P	1.6
2	☐	1.000	1.170	219.02	0.0001	P	7.0
3	☐	50.000	52.417	10262.42	0.0041	P	2.9
4	☐	125.000	126.580	25213.95	0.0099	P	3.4
5	☐	250.000	253.408	50426.10	0.0198	P	5.0
6	☐	500.000	509.445	99651.46	0.0397	P	3.8
7	☐	1000.000	994.107	205623.51	0.0775	P	3.8
8	☐			71.68	0.0000	P	5.4

$$y = 7.7973\text{E-}005 * x + 1.6140\text{E-}006$$

$$R = 0.9999$$

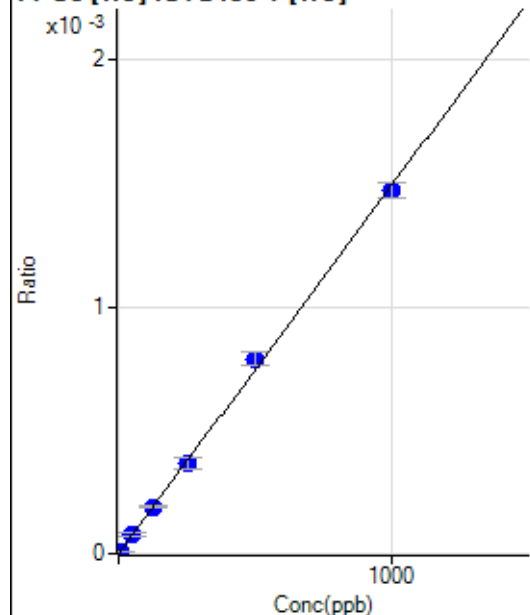
$$DL = 0.001016$$

$$BEC = 0.0207$$

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	6.636	23.33	0.0000	P	15.9
3	☐	50.000	52.542	196.67	0.0001	P	15.5
4	☐	125.000	127.673	486.68	0.0002	P	6.4
5	☐	250.000	245.459	934.48	0.0004	P	12.0
6	☐	500.000	530.090	1983.50	0.0008	P	6.3
7	☐	1000.000	985.621	3900.58	0.0015	P	4.3
8	☐			3.33	0.0000	P	99.7

$$y = 1.4918\text{E-}006 * x + 0.0000\text{E+}000$$

$$R = 0.9993$$

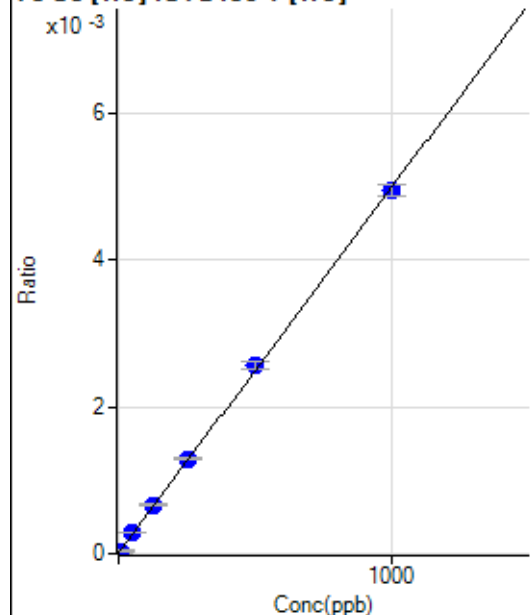
$$DL = 0$$

$$BEC = 0$$

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	19.33	0.0000	P	6.9
2	☐	5.000	6.076	89.68	0.0000	P	7.0
3	☐	50.000	56.245	721.42	0.0003	P	4.3
4	☐	125.000	131.079	1684.94	0.0007	P	2.9
5	☐	250.000	256.624	3279.72	0.0013	P	2.2
6	☐	500.000	512.342	6411.11	0.0026	P	3.8
7	☐	1000.000	991.095	13095.39	0.0049	P	3.2
8	☐			32.33	0.0000	P	21.0

$$y = 4.9726\text{E-}006 * x + 7.7968\text{E-}006$$

$$R = 0.9999$$

$$DL = 0.3244$$

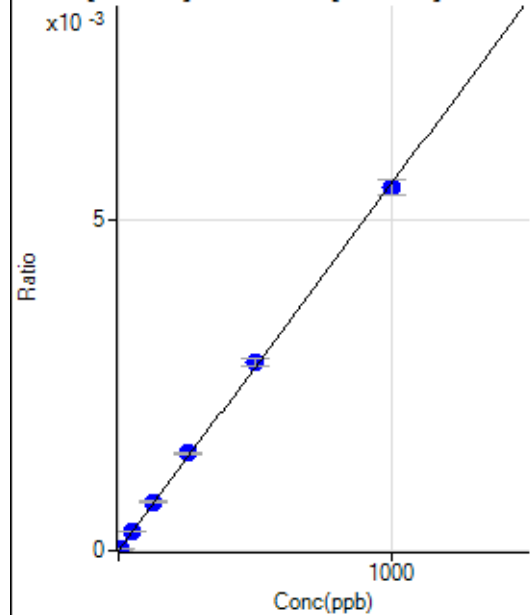
$$BEC = 1.568$$

Weight: <None>

Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			7326.19		P	6.4
2	☐			7102.51		P	5.6
3	☐			6918.87		P	4.7
4	☐			6832.06		P	5.6
5	☐			6868.77		P	9.3
6	☐			7215.98		P	5.3
7	☐			7676.70		P	1.7
8	☐			7563.21		P	5.4

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	21.33	0.0000	P	247.
2	☐	5.000	5.306	941.84	0.0000	P	5.2
3	☐	50.000	52.832	9123.96	0.0003	P	2.6
4	☐	125.000	133.346	22335.93	0.0007	P	0.8
5	☐	250.000	266.312	44536.54	0.0015	P	1.9
6	☐	500.000	512.903	86027.82	0.0029	P	4.9
7	☐	1000.000	988.284	174476.84	0.0055	P	4.1
8	☐			16.66	0.0000	P	356.

$$y = 5.5606E-006 * x + 6.8925E-007$$

$$R = 0.9997$$

$$DL = 0.9219$$

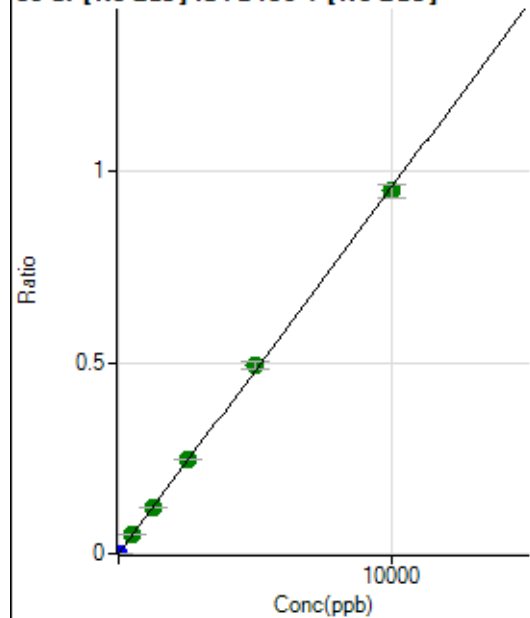
$$BEC = 0.124$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			547.79		P	10.9
2	☐			545.57		P	13.6
3	☐			532.24		P	1.6
4	☐			601.13		P	9.2
5	☐			602.24		P	8.7
6	☐			584.47		P	3.6
7	☐			566.68		P	3.5
8	☐			621.13		P	7.7

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	1127.86	0.0000	P	8.4
2	☐	1.000	1.123	4520.29	0.0001	P	9.3
3	☐	500.000	515.262	1533238.79	0.0495	A	1.4
4	☐	1250.000	1272.838	3676355.38	0.1222	A	1.0
5	☐	2500.000	2572.213	7420185.06	0.2468	A	1.3
6	☐	5000.000	5145.242	14889972.55	0.4937	A	4.5
7	☐	10000.000	9905.708	30173417.69	0.9504	A	3.9
8	☐			12547.63	0.0004	P	6.3

$$y = 9.5943\text{E-}005 * x + 3.7160\text{E-}005$$

$$R = 0.9998$$

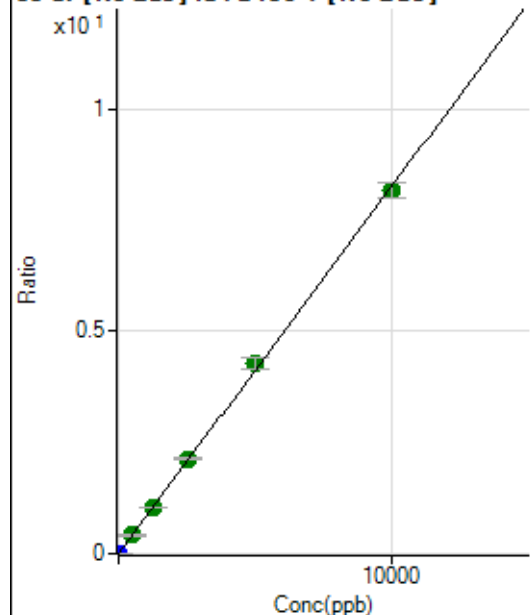
$$DL = 0.09745$$

$$BEC = 0.3873$$

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	552.81	0.0000	P	1.7
2	☐	1.000	1.096	28799.92	0.0009	P	2.5
3	☐	500.000	500.734	12814039.96	0.4135	A	1.9
4	☐	1250.000	1261.720	31356881.95	1.0419	A	0.8
5	☐	2500.000	2584.351	64165081.30	2.1341	A	1.3
6	☐	5000.000	5184.857	129108165.3	4.2815	A	5.2
7	☐	10000.000	9884.982	259123941.9	8.1628	A	4.2
8	☐			103487.93	0.0034	P	7.3

$$y = 8.2577\text{E-}004 * x + 1.8166\text{E-}005$$

$$R = 0.9997$$

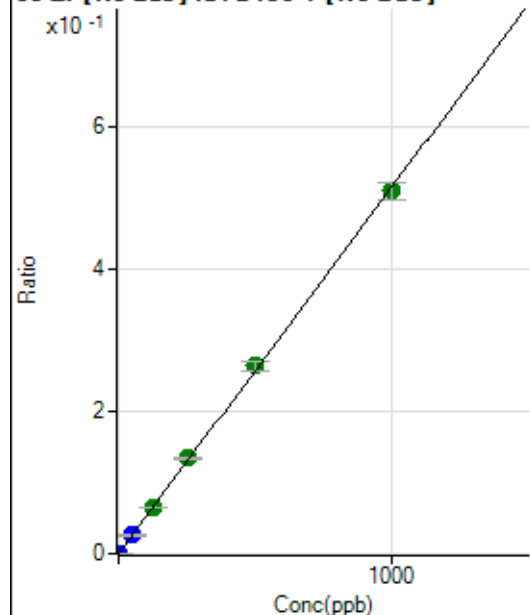
$$DL = 0.001101$$

$$BEC = 0.022$$

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	1658.48	0.0001	P	8.9
2	☐	1.000	0.952	16944.11	0.0005	P	3.5
3	☐	50.000	50.275	802070.92	0.0259	P	2.9
4	☐	125.000	127.193	1968541.14	0.0654	A	1.0
5	☐	250.000	259.921	4017411.72	0.1336	A	1.6
6	☐	500.000	512.729	7946703.74	0.2635	A	4.9
7	☐	1000.000	990.867	16163199.32	0.5092	A	4.5
8	☐			5420.64	0.0002	P	4.3

$$y = 5.1383\text{E-}004 * x + 5.4272\text{E-}005$$

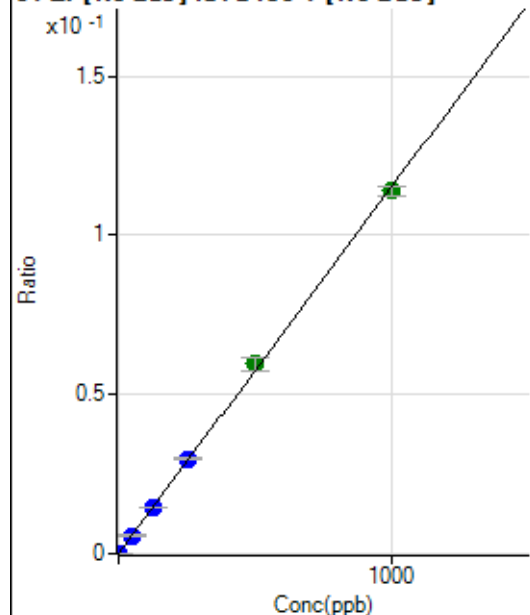
$$R = 0.9998$$

$$DL = 0.0283$$

$$BEC = 0.1056$$

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	302.79	0.0000	P	23.3
2	☐	1.000	0.974	3803.42	0.0001	P	1.5
3	☐	50.000	49.139	175573.67	0.0057	P	2.6
4	☐	125.000	126.718	439292.32	0.0146	P	1.7
5	☐	250.000	258.240	894189.75	0.0297	P	2.2
6	☐	500.000	516.764	1793462.61	0.0595	A	6.3
7	☐	1000.000	989.386	3617207.11	0.1139	A	2.9
8	☐			1172.30	0.0000	P	12.2

$$y = 1.1511\text{E-}004 * x + 9.8679\text{E-}006$$

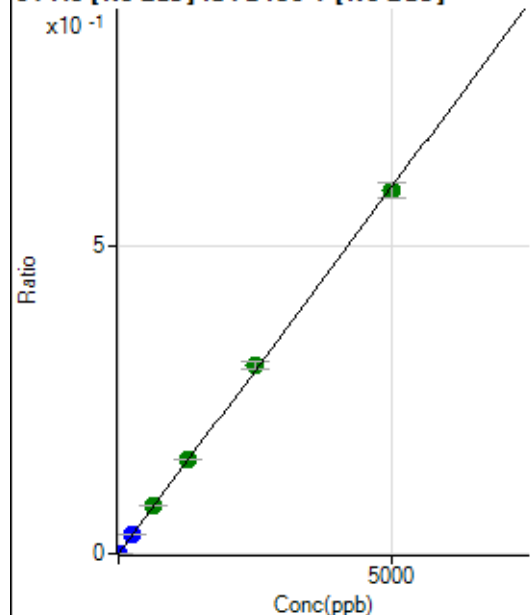
$$R = 0.9997$$

$$DL = 0.05986$$

$$BEC = 0.08572$$

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	600.03	0.0000	P	20.8
2	☐	5.000	5.084	19486.32	0.0006	P	2.5
3	☐	250.000	254.184	937979.19	0.0303	P	2.6
4	☐	625.000	647.696	2320541.31	0.0771	A	1.1
5	☐	1250.000	1296.485	4639962.17	0.1543	A	0.3
6	☐	2500.000	2569.876	9226557.67	0.3059	A	4.1
7	☐	5000.000	4950.394	18703211.01	0.5892	A	4.4
8	☐			5381.75	0.0002	P	5.9

$$y = 1.1902\text{E-}004 * x + 1.9806\text{E-}005$$

$$R = 0.9998$$

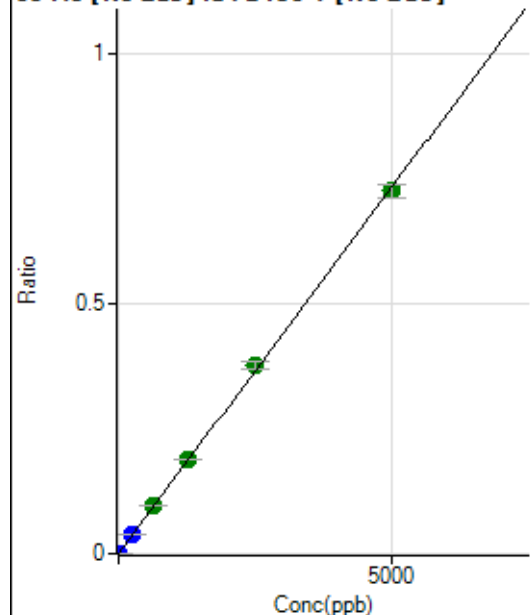
$$DL = 0.104$$

$$BEC = 0.1664$$

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	27.78	0.0000	P	24.3
2	☐	5.000	5.108	23314.54	0.0007	P	1.9
3	☐	250.000	254.509	1152737.53	0.0372	P	3.0
4	☐	625.000	649.232	2856367.16	0.0949	A	1.0
5	☐	1250.000	1282.664	5637089.66	0.1875	A	1.1
6	☐	2500.000	2562.785	11300573.95	0.3746	A	4.1
7	☐	5000.000	4957.187	23008101.90	0.7247	A	3.7
8	☐			6209.90	0.0002	P	17.5

$$y = 1.4618E-004 * x + 9.2193E-007$$

$$R = 0.9999$$

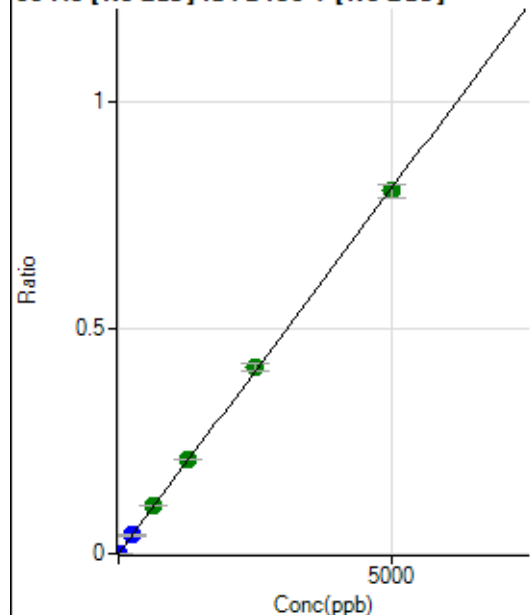
$$DL = 0.004598$$

$$BEC = 0.006307$$

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	111.11	0.0000	P	29.1
2	☐	5.000	5.154	26108.48	0.0008	P	2.4
3	☐	250.000	252.138	1263669.57	0.0408	P	3.0
4	☐	625.000	650.414	3166257.69	0.1052	A	1.2
5	☐	1250.000	1284.595	6246837.60	0.2078	A	1.0
6	☐	2500.000	2543.991	12412274.32	0.4115	A	4.1
7	☐	5000.000	4966.072	25500811.85	0.8033	A	4.0
8	☐			8989.30	0.0003	P	14.3

$$y = 1.6175E-004 * x + 3.6513E-006$$

$$R = 0.9999$$

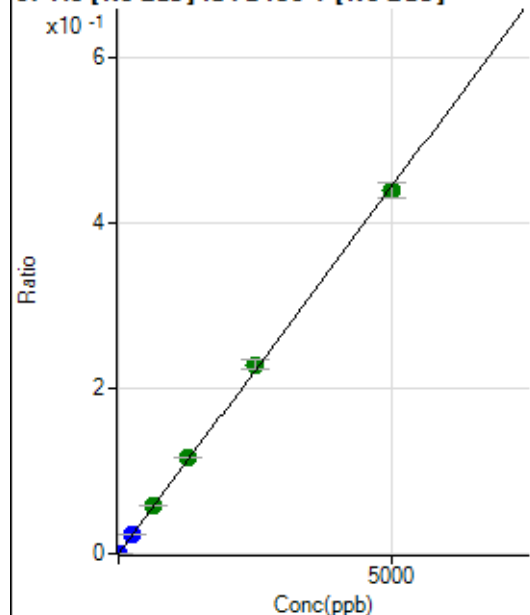
$$DL = 0.01971$$

$$BEC = 0.02257$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	19.44	0.0000	P	52.6
2	☐	5.000	5.131	14216.00	0.0005	P	1.8
3	☐	250.000	254.805	700480.21	0.0226	P	2.3
4	☐	625.000	658.042	1756877.25	0.0584	A	1.7
5	☐	1250.000	1307.952	3488180.16	0.1160	A	1.4
6	☐	2500.000	2575.537	6889651.80	0.2285	A	5.2
7	☐	5000.000	4943.373	13921733.65	0.4385	A	4.2
8	☐			3639.48	0.0001	P	19.7

$$y = 8.8713\text{E-}005 * x + 6.5143\text{E-}007$$

$$R = 0.9997$$

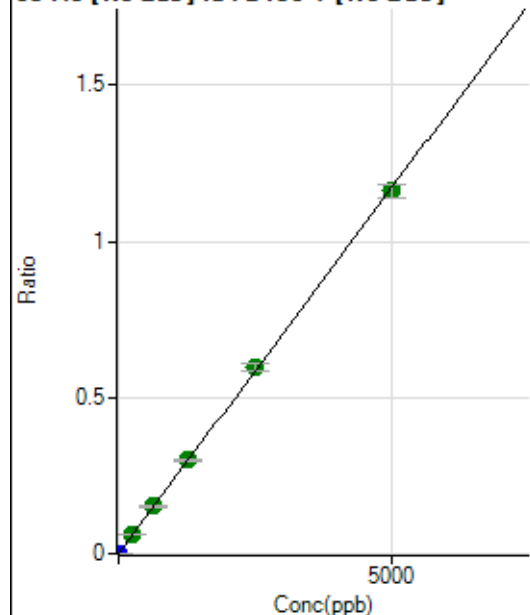
$$DL = 0.01158$$

$$BEC = 0.007343$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	61.11	0.0000	P	47.0
2	☐	5.000	5.162	37740.89	0.0012	P	3.3
3	☐	250.000	252.871	1834650.76	0.0592	A	1.6
4	☐	625.000	645.749	4549522.98	0.1512	A	0.8
5	☐	1250.000	1280.986	9014381.80	0.2999	A	2.1
6	☐	2500.000	2556.632	18051267.07	0.5985	A	4.5
7	☐	5000.000	4961.200	36872520.96	1.1614	A	3.9
8	☐			8577.88	0.0003	P	11.1

$$y = 2.3410\text{E-}004 * x + 2.0488\text{E-}006$$

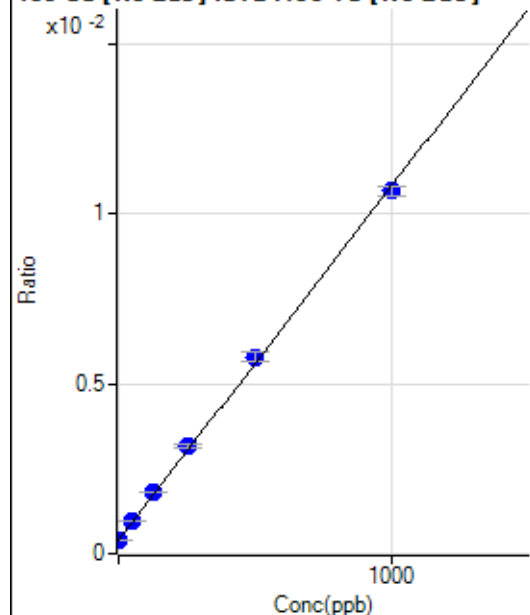
$$R = 0.9999$$

$$DL = 0.01235$$

$$BEC = 0.008752$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	9264.58	0.0004	P	7.0
2	☐	1.000	1.795	9951.08	0.0004	P	2.8
3	☐	50.000	53.284	22872.29	0.0010	P	0.5
4	☐	125.000	133.601	42310.00	0.0018	P	0.4
5	☐	250.000	265.403	74370.83	0.0032	P	2.8
6	☐	500.000	517.161	136997.56	0.0058	P	4.8
7	☐	1000.000	986.329	264450.12	0.0107	P	2.6
8	☐			8650.21	0.0004	P	5.6

$$y = 1.0432\text{E-}005 * x + 3.9430\text{E-}004$$

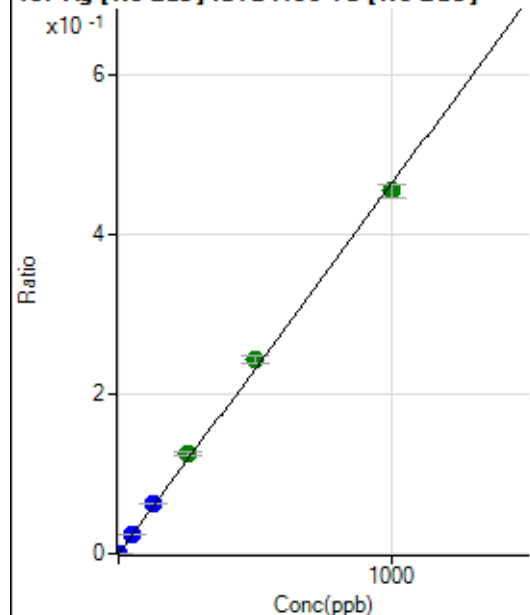
$$R = 0.9996$$

$$DL = 7.94$$

$$BEC = 37.8$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	183.34	0.0000	P	17.2
2	☐	1.000	0.988	11202.07	0.0005	P	3.7
3	☐	50.000	53.230	593096.46	0.0246	P	2.0
4	☐	125.000	133.513	1462135.74	0.0618	P	1.0
5	☐	250.000	269.986	2937898.91	0.1250	A	2.6
6	☐	500.000	525.131	5751086.72	0.2430	A	4.6
7	☐	1000.000	981.212	11236772.21	0.4541	A	3.8
8	☐			3494.99	0.0001	P	6.7

$$y = 4.6278\text{E-}004 * x + 7.7391\text{E-}006$$

$$R = 0.9993$$

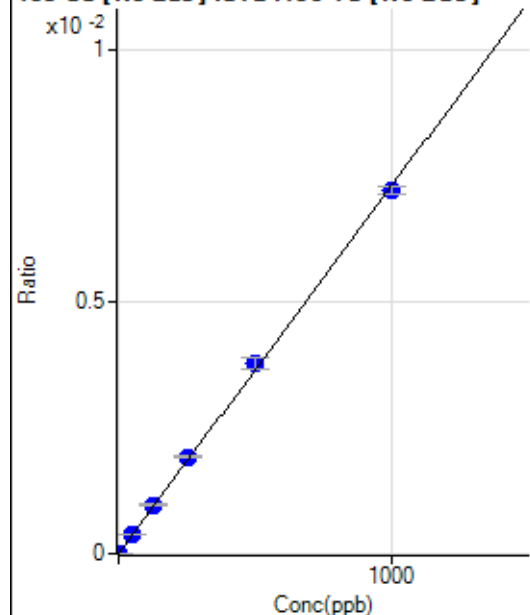
$$DL = 0.00863$$

$$BEC = 0.01672$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	47.22	0.0000	P	11.1
2	☐	1.000	1.043	231.95	0.0000	P	10.9
3	☐	50.000	52.575	9289.35	0.0004	P	1.7
4	☐	125.000	132.831	22998.49	0.0010	P	1.6
5	☐	250.000	262.588	45134.84	0.0019	P	2.3
6	☐	500.000	517.874	89518.67	0.0038	P	5.5
7	☐	1000.000	986.809	178411.99	0.0072	P	2.3
8	☐			211.12	0.0000	P	11.2

$$y = 7.3027\text{E-}006 * x + 1.9994\text{E-}006$$

$$R = 0.9997$$

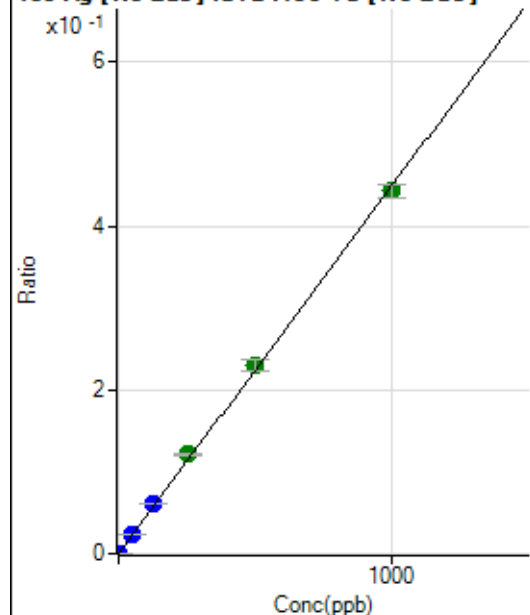
$$DL = 0.09113$$

$$BEC = 0.2738$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	38.89	0.0000	P	70.2
2	☐	1.000	0.999	10823.98	0.0004	P	9.1
3	☐	50.000	52.521	566863.34	0.0236	P	1.5
4	☐	125.000	134.729	1429549.07	0.0604	P	0.3
5	☐	250.000	269.874	2845862.32	0.1210	A	1.6
6	☐	500.000	512.364	5435241.27	0.2297	A	5.8
7	☐	1000.000	987.507	10958330.37	0.4428	A	3.5
8	☐			3222.70	0.0001	P	14.2

$$y = 4.4841\text{E-}004 * x + 1.7161\text{E-}006$$

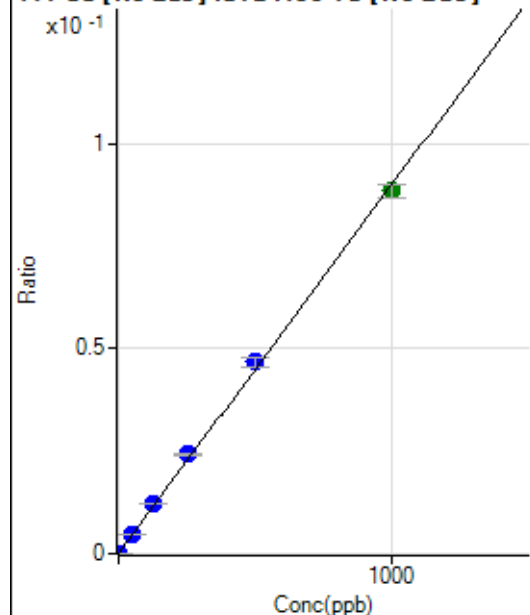
$$R = 0.9996$$

$$DL = 0.008054$$

$$BEC = 0.003827$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	907.29	0.0000	P	6.9
2	☐	1.000	1.089	3291.33	0.0001	P	0.7
3	☐	50.000	53.025	115749.40	0.0048	P	1.4
4	☐	125.000	133.555	285224.98	0.0121	P	1.3
5	☐	250.000	268.843	569630.08	0.0242	P	1.9
6	☐	500.000	520.595	1109122.87	0.0469	P	5.0
7	☐	1000.000	983.771	2191287.14	0.0885	A	3.7
8	☐			1228.37	0.0001	P	5.9

$$y = 8.9966\text{E-}005 * x + 3.8630\text{E-}005$$

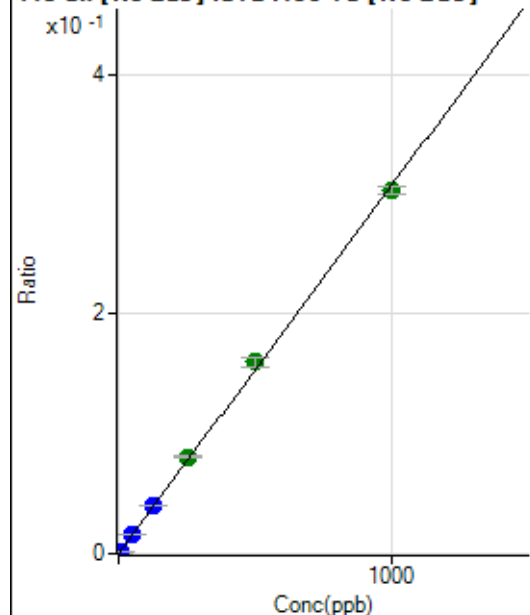
$$R = 0.9995$$

$$DL = 0.08935$$

$$BEC = 0.4294$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1100.08	0.0000	P	24.7
2	☐	5.000	5.107	38928.35	0.0016	P	0.7
3	☐	50.000	51.261	380088.36	0.0158	P	2.7
4	☐	125.000	129.946	945563.88	0.0400	P	1.4
5	☐	250.000	262.684	1898358.90	0.0807	A	2.6
6	☐	500.000	520.496	3784694.05	0.1599	A	4.6
7	☐	1000.000	985.899	7496969.96	0.3029	A	2.0
8	☐			7341.10	0.0003	P	7.9

$$y = 3.0718\text{E-}004 * x + 4.7339\text{E-}005$$

$$R = 0.9996$$

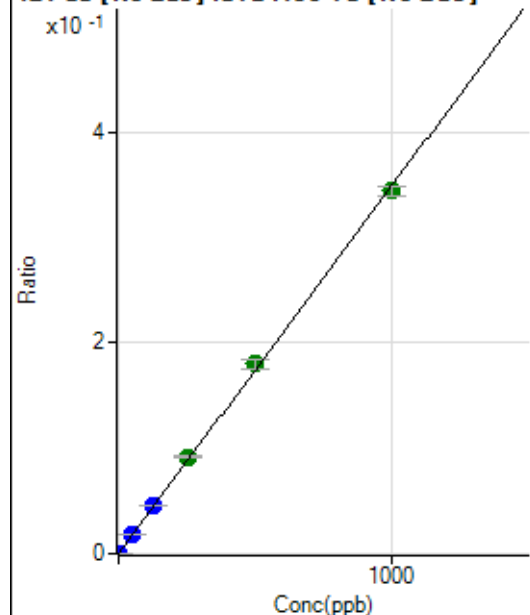
$$DL = 0.1142$$

$$BEC = 0.1541$$

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	63.89	0.0000	P	77.8
2	☐	2.000	2.018	17008.23	0.0007	P	3.3
3	☐	50.000	51.309	430332.99	0.0179	P	1.6
4	☐	125.000	131.323	1082679.00	0.0458	P	1.1
5	☐	250.000	263.317	2157377.48	0.0917	A	1.5
6	☐	500.000	517.012	4262190.76	0.1801	A	5.1
7	☐	1000.000	987.309	8514050.28	0.3440	A	2.3
8	☐			5601.30	0.0002	P	3.8

$$y = 3.4842\text{E-}004 * x + 2.8020\text{E-}006$$

$$R = 0.9997$$

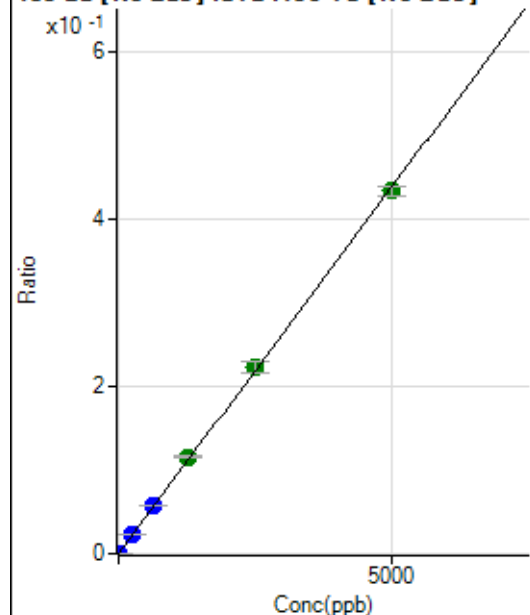
$$DL = 0.01876$$

$$BEC = 0.008042$$

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	61.11	0.0000	P	16.0
2	☐	10.000	10.044	21261.68	0.0009	P	0.3
3	☐	250.000	253.149	533837.29	0.0222	P	2.1
4	☐	625.000	649.001	1345395.49	0.0569	P	1.2
5	☐	1250.000	1319.870	2719128.73	0.1156	A	1.4
6	☐	2500.000	2553.330	5291701.07	0.2237	A	5.8
7	☐	5000.000	4952.710	10739445.29	0.4339	A	2.5
8	☐			4400.85	0.0002	P	2.2

$$y = 8.7611\text{E-}005 * x + 2.6237\text{E-}006$$

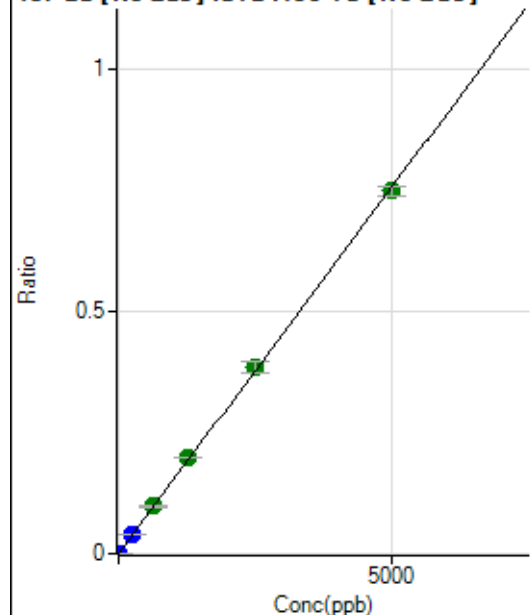
$$R = 0.9998$$

$$DL = 0.01442$$

$$BEC = 0.02995$$

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	100.00	0.0000	P	6.2
2	☐	10.000	10.340	37736.90	0.0016	P	4.1
3	☐	250.000	256.034	931433.20	0.0387	P	1.3
4	☐	625.000	648.782	2320053.65	0.0981	A	1.7
5	☐	1250.000	1309.347	4653658.48	0.1979	A	0.1
6	☐	2500.000	2552.184	9121652.38	0.3857	A	6.9
7	☐	5000.000	4955.796	18536781.66	0.7490	A	2.9
8	☐			7924.78	0.0003	P	8.7

$$y = 1.5113E-004 * x + 4.2628E-006$$

$$R = 0.9998$$

$$DL = 0.005262$$

$$BEC = 0.02821$$

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	43.3
2	☐			6.67		P	100.
3	☐			46.67		P	42.9
4	☐			106.67		P	6.3
5	☐			171.12		P	11.2
6	☐			311.12		P	8.7
7	☐			604.47		P	21.0
8	☐			71.12		P	32.9

150 Nd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			3.33		P	0.0
2	☐			1.11		P	173.
3	☐			4.44		P	114.
4	☐			7.78		P	49.5
5	☐			24.45		P	43.8
6	☐			38.89		P	13.1
7	☐			64.45		P	52.3
8	☐			12.22		P	15.7

156 Dy [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			8.33		P	100.
2	☐			30.55		P	15.7
3	☐			52.78		P	32.9
4	☐			63.89		P	19.9
5	☐			147.23		P	32.7
6	☐			269.46		P	7.8
7	☐			477.80		P	14.6
8	☐			1511.24		P	11.3

156 Dy [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			4.45		P	86.6
2	☐			3.33		P	100.
3	☐			17.78		P	65.8
4	☐			32.22		P	33.3
5	☐			60.00		P	28.9
6	☐			81.11		P	19.0
7	☐			168.89		P	14.8
8	☐			561.13		P	6.5

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			194.45		P	23.6
2	☐			238.90		P	2.0
3	☐			191.67		P	15.7
4	☐			211.12		P	8.2
5	☐			288.90		P	9.3
6	☐			422.24		P	12.1
7	☐			613.92		P	9.0
8	☐			1922.41		P	3.0

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			78.89		P	37.9
2	☐			61.11		P	25.8
3	☐			70.00		P	12.6
4	☐			85.56		P	9.8
5	☐			96.67		P	12.4
6	☐			146.67		P	25.0
7	☐			233.34		P	5.2
8	☐			756.69		P	2.7

164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			155.56		P	22.3
2	☐			152.78		P	17.5
3	☐			122.23		P	14.2
4	☐			155.56		P	20.3
5	☐			180.57		P	18.7
6	☐			233.34		P	10.7
7	☐			236.12		P	10.2
8	☐			497.25		P	7.9

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			43.33		P	42.8
2	☐			27.78		P	13.9
3	☐			45.56		P	4.2
4	☐			56.67		P	20.4
5	☐			51.11		P	15.1
6	☐			68.89		P	10.1
7	☐			97.78		P	5.2
8	☐			124.45		P	6.7

172 Yb [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			61.11		P	82.2
2	☐			58.34		P	37.8
3	☐			91.67		P	50.6
4	☐			44.45		P	47.2
5	☐			52.78		P	18.2
6	☐			50.00		P	72.7
7	☐			61.11		P	15.7
8	☐			155.56		P	20.3

172 Yb [He] No available calibration points

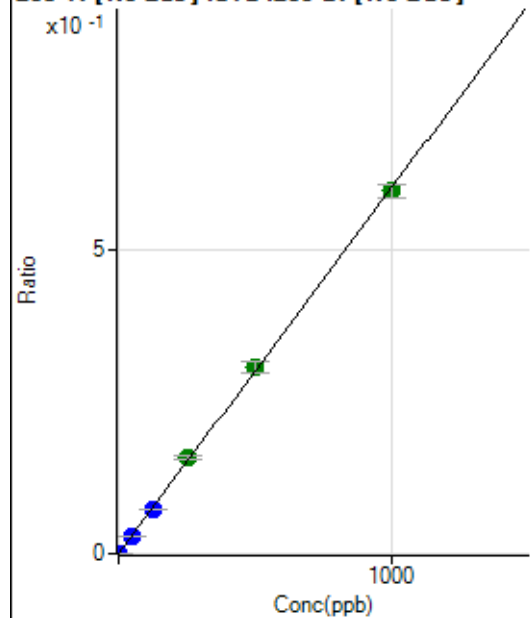
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			22.22		P	66.1
2	☐			25.93		P	44.6
3	☐			29.63		P	57.3
4	☐			20.37		P	56.8
5	☐			18.52		P	45.8
6	☐			24.07		P	48.0
7	☐			31.48		P	44.4
8	☐			50.00		P	22.2

176 Yb [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2892.07		P	8.4
2	☐			2861.51		P	0.7
3	☐			4826.04		P	3.3
4	☐			7274.42		P	0.5
5	☐			11655.44		P	3.3
6	☐			20864.19		P	4.2
7	☐			38467.95		P	0.7
8	☐			2589.22		P	6.9

176 Yb [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			4289.67		P	1.0
2	☐			2550.30		P	11.9
3	☐			2911.49		P	5.1
4	☐			3498.68		P	4.4
5	☐			4904.71		P	6.6
6	☐			8208.26		P	2.4
7	☐			14465.51		P	2.7
8	☐			1759.41		P	6.9

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	286.12	0.0000	P	14.0
2	☐	1.000	1.007	9417.56	0.0006	P	2.4
3	☐	50.000	48.441	440255.24	0.0292	P	2.3
4	☐	125.000	122.899	1098656.73	0.0742	P	0.9
5	☐	250.000	264.237	2293008.12	0.1594	A	3.5
6	☐	500.000	509.733	4388654.70	0.3075	A	6.9
7	☐	1000.000	991.915	8724346.72	0.5984	A	3.9
8	☐			1947.43	0.0001	P	17.9

$$y = 6.0328E-004 * x + 1.9185E-005$$

$$R = 0.9998$$

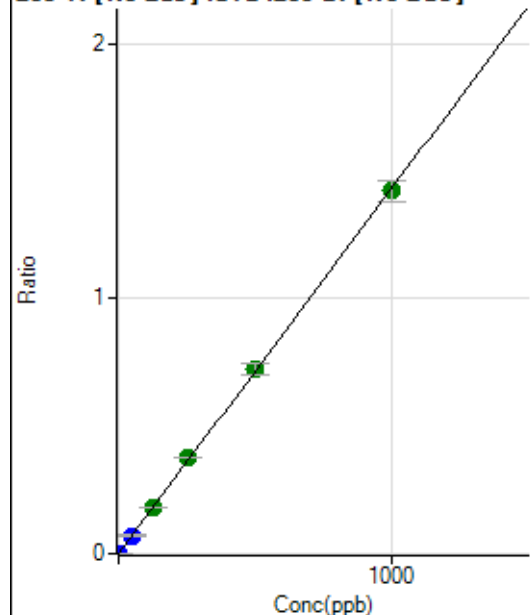
$$DL = 0.01332$$

$$BEC = 0.0318$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	613.92	0.0000	P	14.1
2	☐	1.000	0.979	21696.46	0.0014	P	2.1
3	☐	50.000	49.706	1072335.59	0.0712	P	2.6
4	☐	125.000	126.450	2684008.41	0.1812	A	1.0
5	☐	250.000	263.539	5430232.98	0.3775	A	1.2
6	☐	500.000	505.225	10327120.37	0.7237	A	6.9
7	☐	1000.000	993.836	20743483.97	1.4235	A	5.8
8	☐			4448.12	0.0003	P	13.6

$$y = 0.0014 * x + 4.1164E-005$$

$$R = 0.9999$$

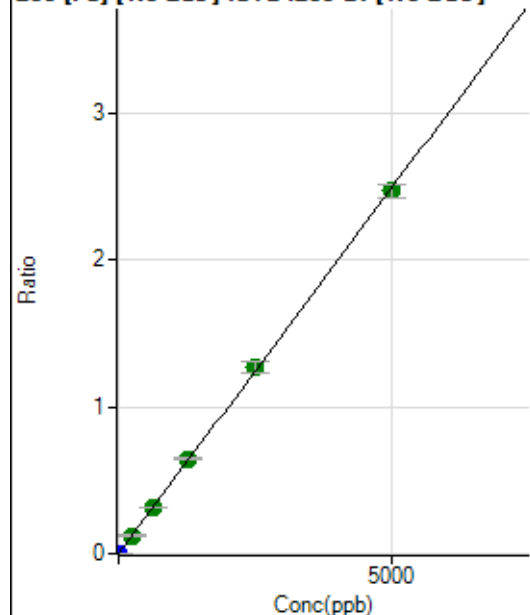
$$DL = 0.01213$$

$$BEC = 0.02874$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	633.36	0.0000	P	11.1
2	☐	1.000	0.989	8039.67	0.0005	P	1.5
3	☐	250.000	247.515	1856408.42	0.1234	A	4.3
4	☐	625.000	624.822	4612385.46	0.3113	A	0.6
5	☐	1250.000	1295.541	9283901.71	0.6455	A	2.4
6	☐	2500.000	2548.422	18125576.56	1.2697	A	5.9
7	☐	5000.000	4964.550	36058884.60	2.4734	A	4.0
8	☐			16842.69	0.0013	P	9.1

$$y = 4.9820E-004 * x + 4.2098E-005$$

$$R = 0.9999$$

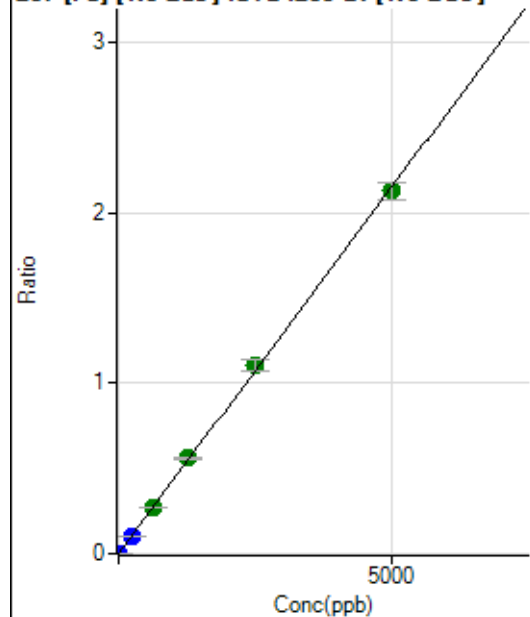
$$DL = 0.02821$$

$$BEC = 0.0845$$

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	581.51	0.0000	P	12.8
2	☐	1.000	1.018	7163.22	0.0005	P	3.1
3	☐	250.000	238.446	1543451.62	0.1025	P	3.2
4	☐	625.000	631.641	4023217.25	0.2716	A	1.5
5	☐	1250.000	1299.856	8037278.48	0.5588	A	3.2
6	☐	2500.000	2571.527	15782493.76	1.1055	A	5.7
7	☐	5000.000	4951.520	31026052.54	2.1286	A	4.6
8	☐			15107.17	0.0012	P	4.5

$$y = 4.2988\text{E-}004 * x + 3.8961\text{E-}005$$

$$R = 0.9998$$

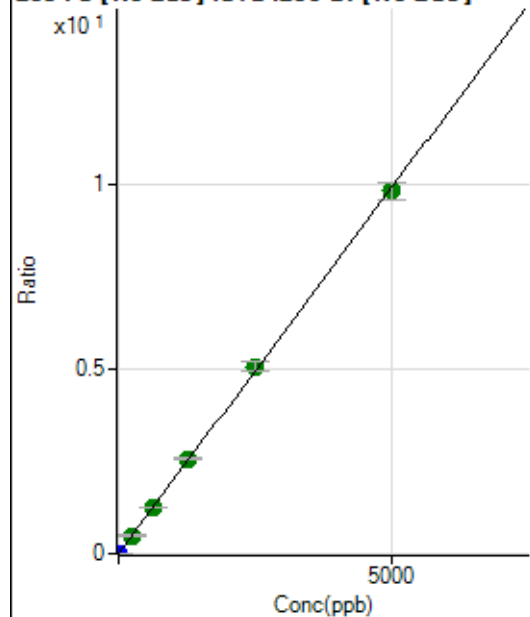
$$DL = 0.03483$$

$$BEC = 0.09063$$

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	2652.01	0.0002	P	0.6
2	☐	1.000	0.999	32362.62	0.0022	P	1.2
3	☐	250.000	246.357	7338592.80	0.4876	A	3.2
4	☐	625.000	624.854	18316221.33	1.2363	A	0.5
5	☐	1250.000	1292.280	36776230.39	2.5567	A	1.8
6	☐	2500.000	2561.896	72356545.25	5.0684	A	5.9
7	☐	5000.000	4958.682	142992884.2	9.8101	A	4.6
8	☐			68087.66	0.0052	P	7.4

$$y = 0.0020 * x + 1.7699\text{E-}004$$

$$R = 0.9998$$

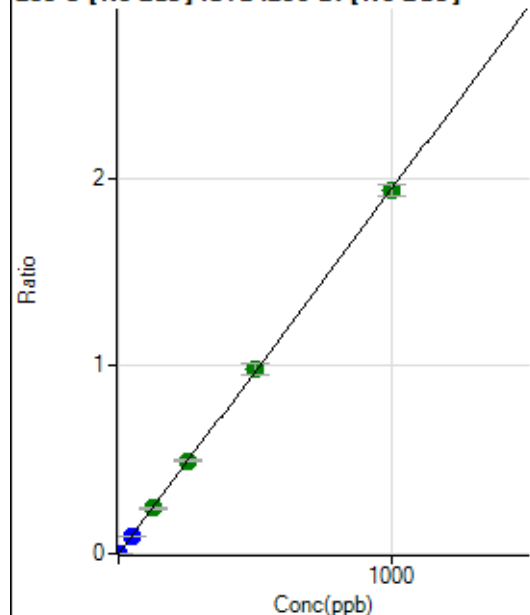
$$DL = 0.001493$$

$$BEC = 0.08947$$

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	25.00	0.0000	P	53.0
2	☐	1.000	0.945	27600.18	0.0018	P	0.7
3	☐	50.000	47.407	1384800.16	0.0920	P	3.4
4	☐	125.000	124.288	3573127.64	0.2412	A	1.4
5	☐	250.000	254.761	7112993.91	0.4944	A	1.0
6	☐	500.000	506.957	14046799.27	0.9838	A	5.6
7	☐	1000.000	995.550	28169511.05	1.9320	A	3.3
8	☐			3161.59	0.0002	P	9.8

$$y = 0.0019 * x + 1.6442E-006$$

$$R = 0.9999$$

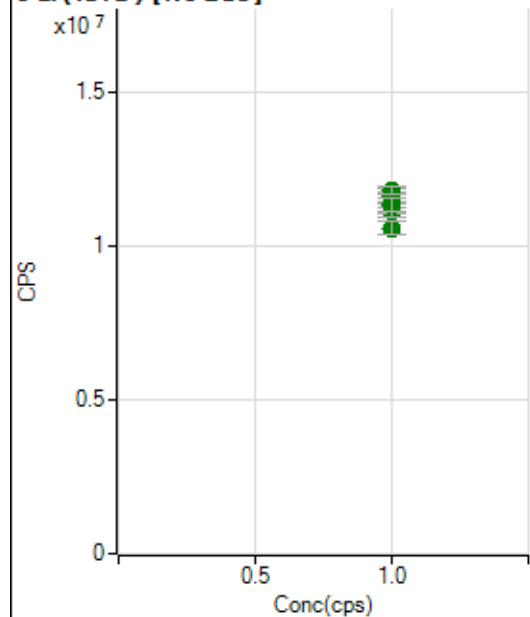
$$DL = 0.001347$$

$$BEC = 0.0008472$$

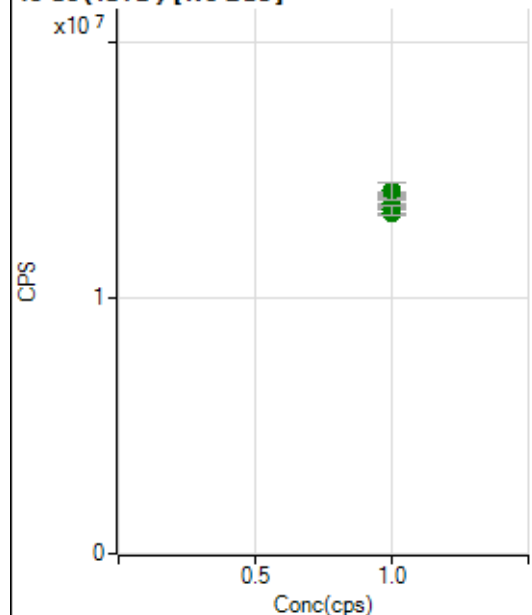
Weight: <None>

Min Conc: 0

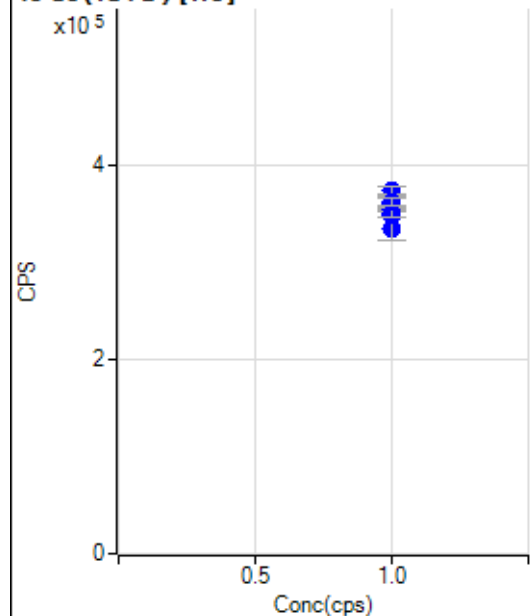
6 Li (ISTD) [No Gas]



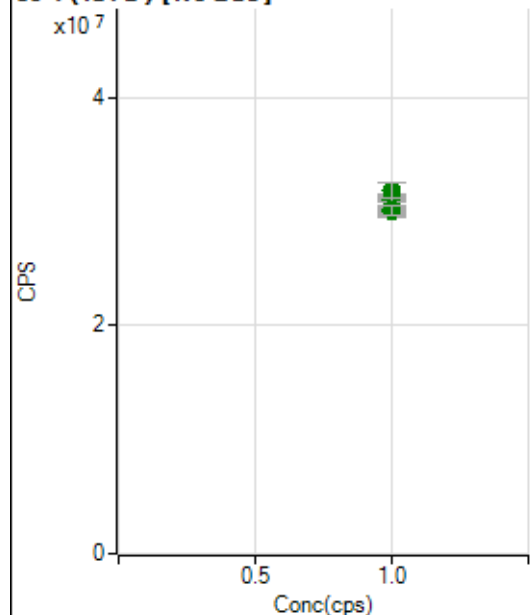
	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		11652821.80		A	4.5
2	☐	1.000		11723648.63		A	0.6
3	☐	1.000		11803031.09		A	2.2
4	☐	1.000		11414709.85		A	0.5
5	☐	1.000		11146499.83		A	1.7
6	☐	1.000		11304610.20		A	6.5
7	☐	1.000		11357824.31		A	3.8
8	☐	1.000		10599591.48		A	4.2

45 Sc (ISTD) [No Gas]

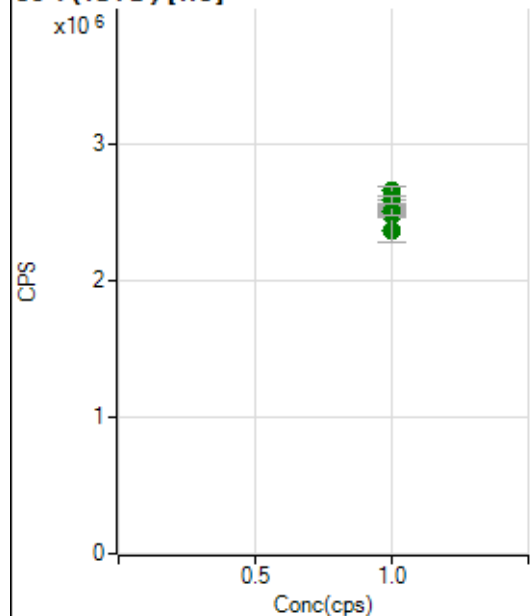
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		13682299.24		A	5.5
2	☐	1.000		13859277.15		A	2.2
3	☐	1.000		13896220.90		A	3.1
4	☐	1.000		13581567.72		A	0.6
5	☐	1.000		13324802.44		A	1.6
6	☐	1.000		13701269.66		A	3.3
7	☐	1.000		14176976.04		A	4.7
8	☐	1.000		13422670.91		A	2.7

45 Sc (ISTD) [He]

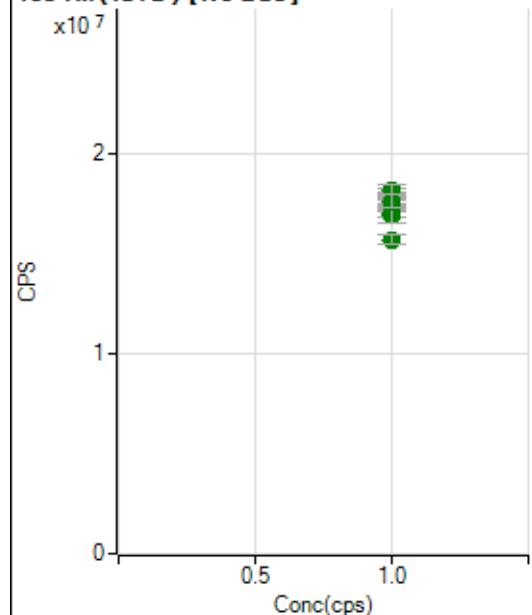
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		351131.55		P	2.1
2	☐	1.000		334908.43		P	7.3
3	☐	1.000		348978.35		P	1.4
4	☐	1.000		355064.16		P	1.2
5	☐	1.000		360413.91		P	4.0
6	☐	1.000		350835.50		P	2.9
7	☐	1.000		373580.53		P	2.2
8	☐	1.000		363209.59		P	2.2

89 Y (ISTD) [No Gas]

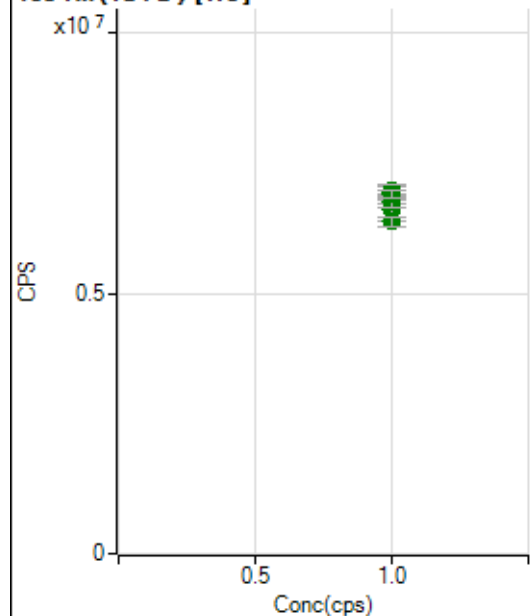
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		30445449.55		A	6.7
2	☐	1.000		31185263.15		A	0.7
3	☐	1.000		30999329.81		A	2.8
4	☐	1.000		30095906.77		A	0.4
5	☐	1.000		30066183.17		A	1.5
6	☐	1.000		30201310.11		A	4.5
7	☐	1.000		31781190.36		A	4.1
8	☐	1.000		30083516.78		A	3.1

89 Y (ISTD) [He]

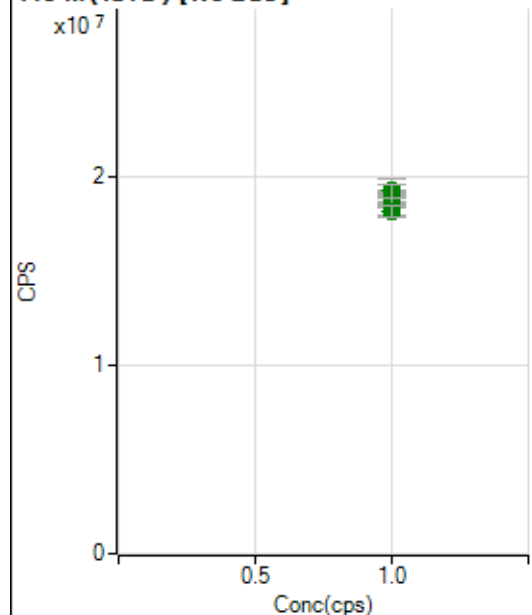
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2478710.19		A	1.6
2	☐	1.000		2367057.45		A	7.7
3	☐	1.000		2510943.09		A	2.2
4	☐	1.000		2555660.76		A	2.5
5	☐	1.000		2555727.32		A	4.6
6	☐	1.000		2510526.91		A	3.1
7	☐	1.000		2654501.33		A	2.8
8	☐	1.000		2589158.82		A	1.7

103 Rh (ISTD) [No Gas]

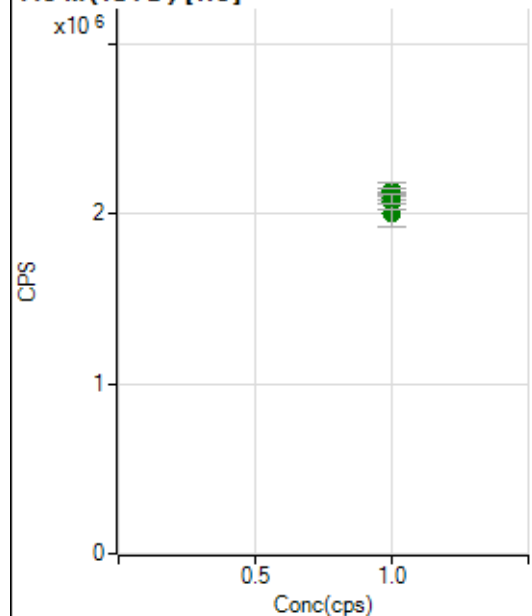
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		17701964.63		A	6.2
2	☐	1.000		17944055.61		A	1.1
3	☐	1.000		18117563.25		A	3.7
4	☐	1.000		17586370.36		A	1.0
5	☐	1.000		16947508.71		A	1.9
6	☐	1.000		16955450.03		A	5.1
7	☐	1.000		17600610.98		A	4.0
8	☐	1.000		15661295.32		A	3.2

103 Rh (ISTD) [He]

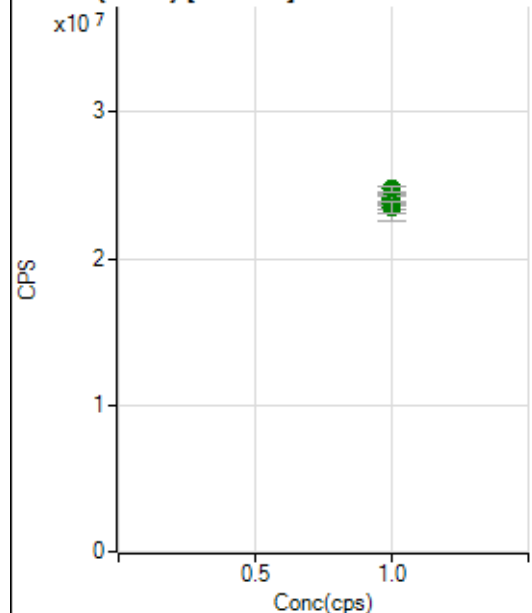
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6808235.24		A	2.9
2	☐	1.000		6614840.94		A	7.2
3	☐	1.000		6823911.98		A	0.8
4	☐	1.000		6931886.70		A	3.0
5	☐	1.000		6968257.53		A	3.8
6	☐	1.000		6770271.70		A	4.0
7	☐	1.000		6903275.59		A	2.2
8	☐	1.000		6373098.10		A	3.0

115 In (ISTD) [No Gas]

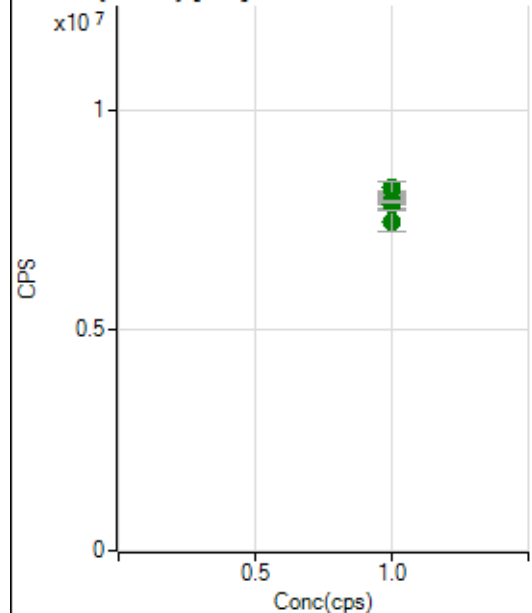
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		19203267.22		A	6.4
2	☐	1.000		19039961.93		A	1.1
3	☐	1.000		19058440.61		A	2.3
4	☐	1.000		18482375.92		A	0.9
5	☐	1.000		18343091.54		A	0.5
6	☐	1.000		18457881.91		A	5.8
7	☐	1.000		19186715.35		A	3.7
8	☐	1.000		18071016.94		A	3.4

115 In (ISTD) [He]

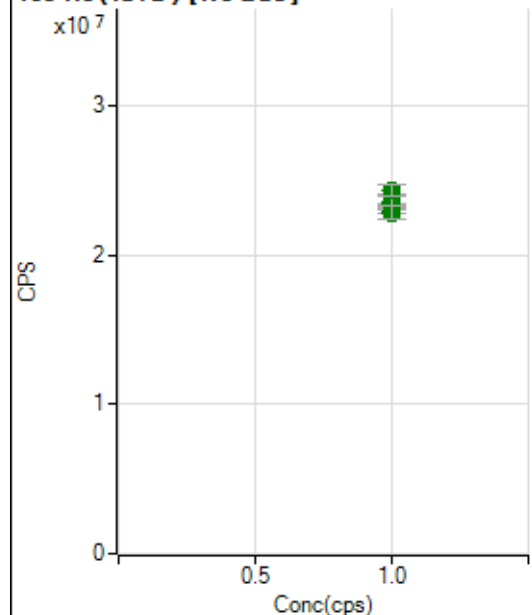
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2102588.60		A	2.3
2	☐	1.000		2003085.89		A	8.0
3	☐	1.000		2114292.57		A	1.0
4	☐	1.000		2133417.55		A	1.8
5	☐	1.000		2136252.81		A	4.7
6	☐	1.000		2071301.88		A	4.3
7	☐	1.000		2116788.18		A	3.4
8	☐	1.000		2090926.43		A	2.5

159 Tb (ISTD) [No Gas]

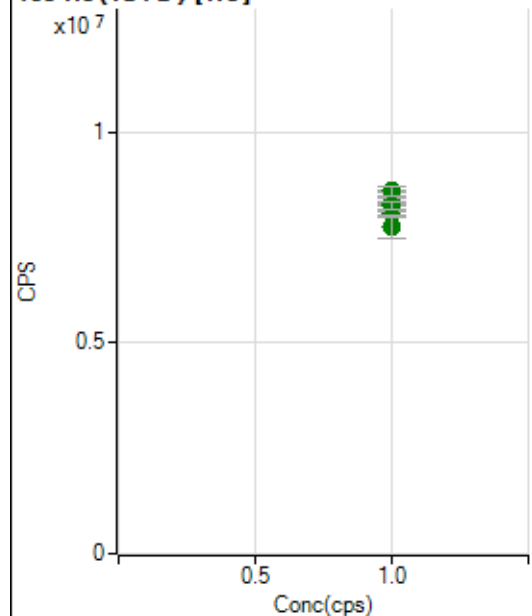
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		23484203.54		A	7.8
2	☐	1.000		24090045.75		A	1.8
3	☐	1.000		24071436.03		A	1.4
4	☐	1.000		23661816.87		A	0.6
5	☐	1.000		23516388.54		A	1.0
6	☐	1.000		23697955.48		A	4.7
7	☐	1.000		24757520.19		A	1.9
8	☐	1.000		23481067.15		A	3.6

159 Tb (ISTD) [He]

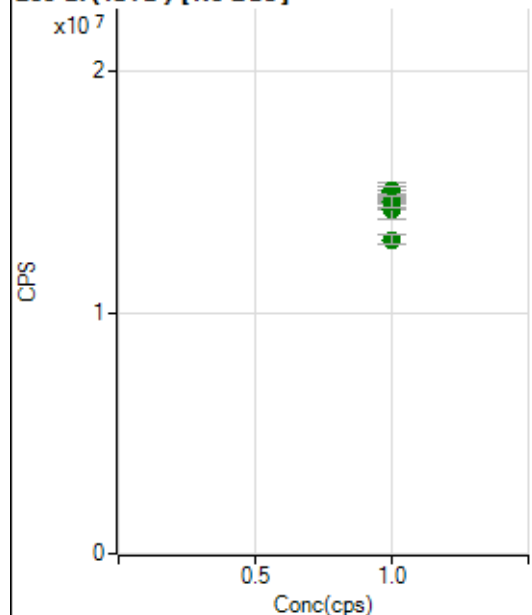
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7882503.29		A	2.6
2	☐	1.000		7471302.25		A	6.3
3	☐	1.000		7885538.56		A	0.5
4	☐	1.000		8016216.55		A	2.2
5	☐	1.000		8086637.73		A	2.1
6	☐	1.000		7862253.35		A	4.0
7	☐	1.000		8232297.72		A	3.6
8	☐	1.000		7927029.81		A	0.7

165 Ho (ISTD) [No Gas]

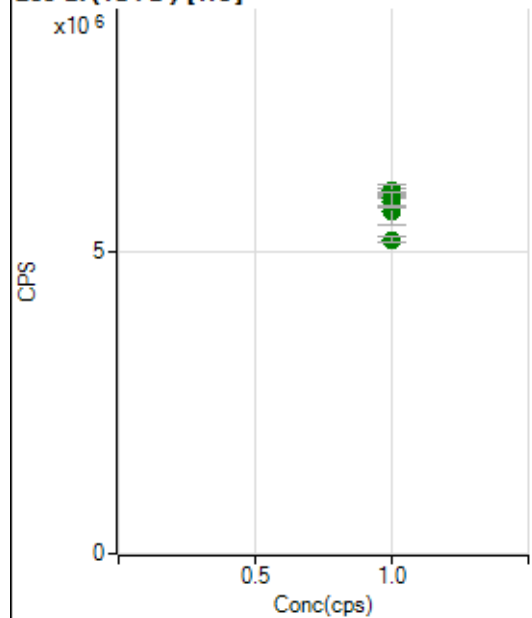
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		23232298.96		A	6.9
2	☐	1.000		23245243.75		A	1.3
3	☐	1.000		23575412.51		A	3.6
4	☐	1.000		23244170.49		A	0.2
5	☐	1.000		22986443.57		A	1.5
6	☐	1.000		23423390.63		A	5.4
7	☐	1.000		24323651.24		A	3.1
8	☐	1.000		22871778.81		A	3.8

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		8058257.73		A	1.9
2	☐	1.000		7758525.23		A	7.3
3	☐	1.000		8241964.18		A	1.4
4	☐	1.000		8422425.50		A	4.0
5	☐	1.000		8432240.15		A	4.1
6	☐	1.000		8281733.28		A	4.1
7	☐	1.000		8606882.99		A	2.5
8	☐	1.000		8252899.18		A	2.1

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		14986598.81		A	5.2
2	☐	1.000		15032346.30		A	1.2
3	☐	1.000		15059226.72		A	2.3
4	☐	1.000		14815199.08		A	1.1
5	☐	1.000		14386325.20		A	1.5
6	☐	1.000		14306876.46		A	5.6
7	☐	1.000		14591921.59		A	3.6
8	☐	1.000		13035297.31		A	2.9

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5971150.95		A	0.9
2	☐	1.000		5672300.09		A	7.8
3	☐	1.000		5962195.26		A	1.5
4	☐	1.000		6017453.04		A	1.9
5	☐	1.000		6020856.44		A	3.0
6	☐	1.000		5833585.05		A	3.5
7	☐	1.000		5891871.79		A	3.6
8	☐	1.000		5210843.19		A	2.0

US EPA Tune Check Report

Operator Name Jaswal
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\P8091521MS.b
Acq. Date-Time 2021-09-15 08:34:22
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		30930	309296.96			0.872	5.000
24		186523	1865232.49			1.268	5.000
25		24984	249837.57			0.594	5.000
26		28840	288397.63			0.788	5.000
59		46487	464867.82			0.506	5.000
113		22742	227419.38			0.797	5.000
115		67225	672254.96			0.901	5.000
206		32235	322352.46			0.837	5.000
207		27272	272722.14			0.863	5.000
208		68667	686672.48			0.857	5.000
220		0	3.00			47.141	

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

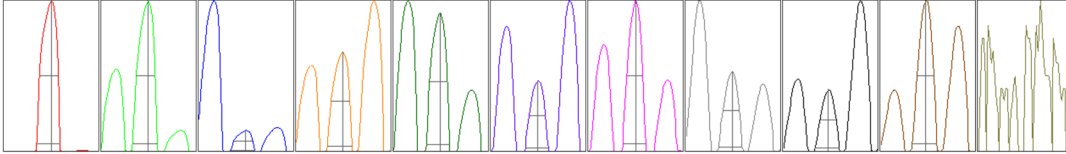
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	31380	30736	30982	30779	30772
24	189657	183157	185811	186639	187352
25	25189	24907	25092	24852	24879
26	29230	28719	28719	28681	28851
59	46810	46471	46156	46556	46441
113	22968	22620	22544	22684	22893
115	68273	66750	66884	67138	67082
206	31909	32129	32652	32248	32239
207	27287	27058	27084	27646	27286
208	68503	67962	69376	69163	68332

US EPA Tune Check Report

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

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	55803.28	9.05	8.90 - 9.10	
24	332578.09	24.00	23.90 - 24.10	
25	44661.38	25.00	24.90 - 25.10	
26	51486.98	26.00	25.90 - 26.10	
59	87845.65	59.00	58.90 - 59.10	
113	45995.80	113.00	112.90 - 113.10	
115	139241.05	115.05	114.90 - 115.10	
206	64062.36	206.00	205.90 - 206.10	
207	54254.04	206.95	206.90 - 207.10	
208	133182.43	207.95	207.90 - 208.10	
220			-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.59	0.735	0.900	
24	0.59	0.782	0.900	
25	0.59	0.769	0.900	
26	0.59	0.783	0.900	
59	0.56	0.735	0.900	
113	0.51	0.724	0.900	
115	0.50	0.725	0.900	
206	0.51	0.742	0.900	
207	0.51	0.771	0.900	
208	0.52	0.777	0.900	
220				

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode --- Nebulizer Gas 0.75 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	9.0 V	Deflect	14.6 V
Extract 2	-200.0 V	Cell Entrance	-30 V	Plate Bias	-50 V
Omega Bias	-105 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	123	Axis Gain	0.9992	QP Bias	-4.0 V
Mass Offset	125	Axis Offset	-0.01		

Hardware Settings

Torch

Torch H	1.1 mm	Torch V	-0.6 mm
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EM

Discriminator	3.8 mV	Analog HV	2238 V	Pulse HV	1516 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		8938	89380.46			3.798	
89		32273	322733.76			3.636	
205		25019	250193.90			3.611	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	8648	8944	8579	9403	9116
89	31068	32418	31233	33934	32713
205	24226	25498	23989	26161	25222

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	9.0 V	Deflect	4.2 V
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Extract 2	-200.0 V	Cell Entrance	-50 V	Plate Bias	-60 V
Omega Bias	-105 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	180 V		
QP Parameters					
Mass Gain	123	Axis Gain	0.9992	QP Bias	-13.0 V
Mass Offset	125	Axis Offset	-0.01		
Hardware Settings					
Torch					
Torch H	1.1 mm	Torch V	-0.6 mm		
EM					
Discriminator	3.8 mV	Analog HV	2238 V	Pulse HV	1516 V