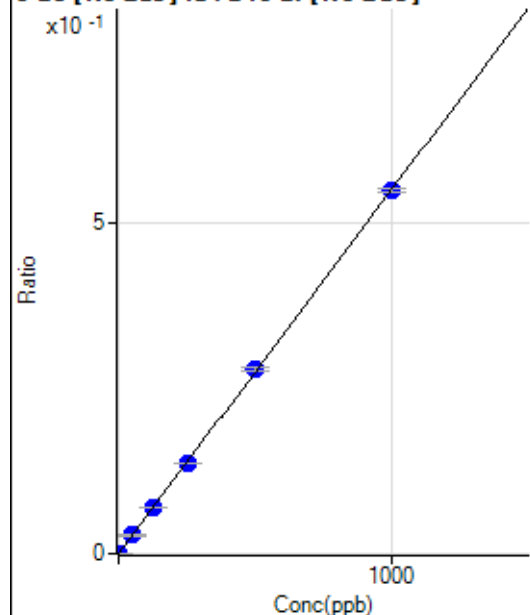


Batch Folder: D:\Agilent\ICPMH\1\DATA\P8050821AMS.b\
Analysis File: P8050821AMS.batch.bin
DA Date-Time: 2021-05-10 16:59:39
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.d	S00	2021-05-08 13:23:39
2	006CALS.d	S02	2021-05-08 13:29:38
3	007CALS.d	S03	2021-05-08 13:32:37
4	008CALS.d	S04	2021-05-08 13:35:37
5	009CALS.d	S05	2021-05-08 13:38:35
6	010CALS.d	S06	2021-05-08 13:41:36
7	011CALS.d	S07	2021-05-08 13:44:35
8	012CALS.d	S08	2021-05-08 13:47:35

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	18.67	0.0000	P	5.0
2	☐	1.000	1.077	673.22	0.0006	P	2.2
3	☐	50.000	50.768	32247.35	0.0280	P	4.4
4	☐	125.000	126.858	80499.80	0.0699	P	0.3
5	☐	250.000	249.371	158765.55	0.1373	P	1.0
6	☐	500.000	505.266	317181.63	0.2782	P	2.1
7	☐	1000.000	997.254	624101.54	0.5491	P	1.0
8	☐			99.98	0.0001	P	3.8

$$y = 5.5055\text{E-}004 * x + 1.6870\text{E-}005$$

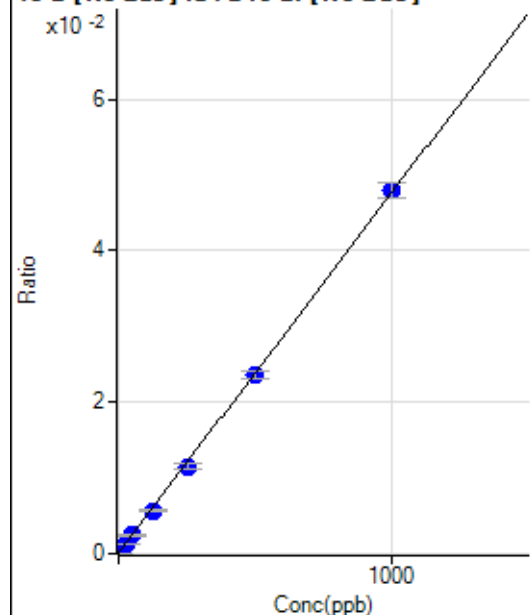
$$R = 1.0000$$

$$DL = 0.004556$$

$$BEC = 0.03064$$

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	127.97	0.0001	P	12.1
2	☐	25.000	24.972	1435.80	0.0013	P	9.2
3	☐	50.000	48.632	2801.06	0.0024	P	4.3
4	☐	125.000	117.782	6582.20	0.0057	P	6.6
5	☐	250.000	239.825	13308.74	0.0115	P	5.3
6	☐	500.000	494.670	26917.87	0.0236	P	4.8
7	☐	1000.000	1006.180	54460.54	0.0479	P	4.3
8	☐			4812.51	0.0043	P	4.3

$$y = 4.7483\text{E-}005 * x + 1.1583\text{E-}004$$

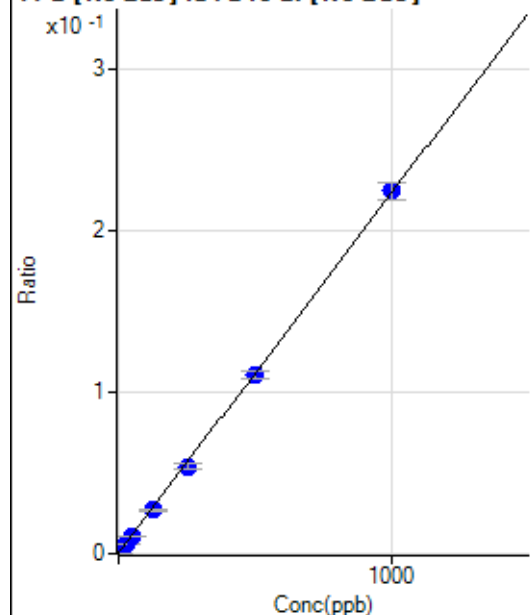
$$R = 0.9999$$

$$DL = 0.8844$$

$$BEC = 2.439$$

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	458.59	0.0004	P	2.0
2	☐	25.000	25.181	6644.21	0.0060	P	7.9
3	☐	50.000	47.304	12628.93	0.0109	P	6.3
4	☐	125.000	118.626	30932.29	0.0268	P	5.9
5	☐	250.000	240.260	62395.36	0.0539	P	6.4
6	☐	500.000	494.441	126027.70	0.1105	P	4.9
7	☐	1000.000	1006.142	255186.88	0.2244	P	4.4
8	☐			22514.79	0.0201	P	5.3

$$y = 2.2266E-004 * x + 4.1452E-004$$

$$R = 0.9999$$

$$DL = 0.1103$$

$$BEC = 1.862$$

Weight: <None>

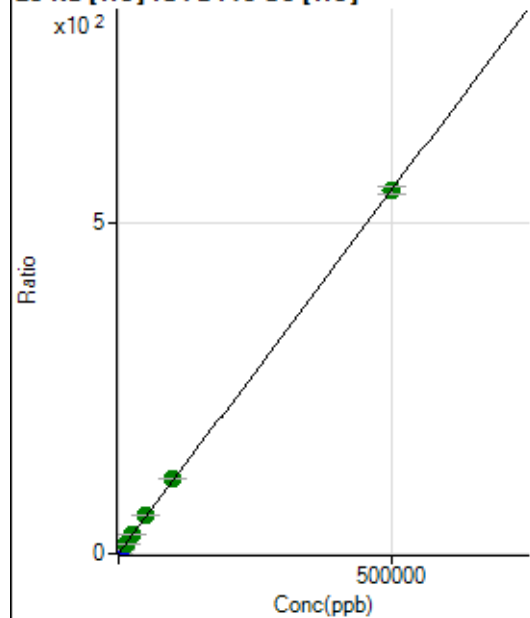
Min Conc: 0

12 C [No Gas] No available calibration points

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐			2550977.57		A	1.3
2	☐			2731403.95		A	0.9
3	☐			2963569.88		A	1.8
4	☐			3481465.83		A	2.1
5	☐			3276815.44		A	1.1
6	☐			3113953.72		A	2.5
7	☐			3343418.93		A	3.7
8	☐			3024398.00		A	0.7

12 C [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			27618.09		P	2.3
2	☐			30368.11		P	1.9
3	☐			34435.38		P	2.2
4	☐			38748.86		P	1.7
5	☐			36902.59		P	1.7
6	☐			35691.04		P	3.0
7	☐			39929.80		P	1.4
8	☐			35819.22		P	1.0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	33664.50	0.3560	P	0.7
2	☐	500.000	542.372	88867.41	0.9528	P	1.7
3	☐	5000.000	5785.389	603636.87	6.7221	P	9.2
4	☐	12500.000	13319.382	1415918.29	15.0124	A	1.0
5	☐	25000.000	27117.734	2840440.30	30.1958	A	1.9
6	☐	50000.000	52306.605	5634020.57	57.9131	A	3.0
7	☐	100000.00	102591.65	11071855.54	113.2456	A	0.9
8	☐	500000.00	499116.74	53700134.19	549.5733	A	2.0

$$y = 0.0011 * x + 0.3560$$

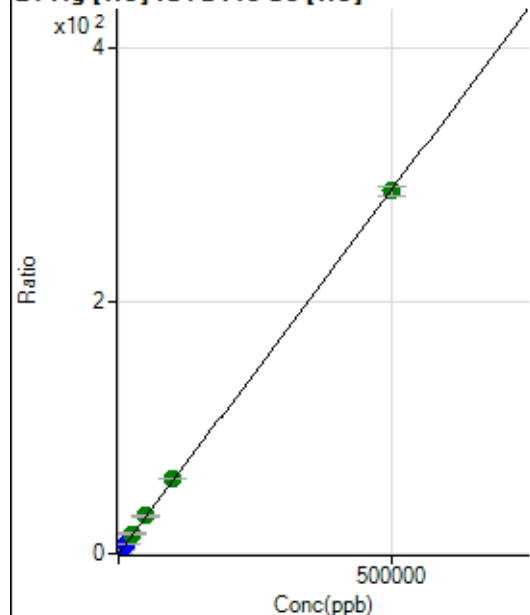
$$R = 1.0000$$

$$DL = 6.87$$

$$BEC = 323.5$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	580.58	0.0061	P	14.5
2	☐	500.000	537.990	29466.47	0.3159	P	2.6
3	☐	5000.000	5810.010	301130.28	3.3518	P	8.4
4	☐	12500.000	13620.385	740331.68	7.8494	P	1.0
5	☐	25000.000	27301.228	1479104.18	15.7274	A	4.0
6	☐	50000.000	52232.469	2927237.44	30.0839	A	2.6
7	☐	100000.00	103037.01	5801960.16	59.3395	A	0.2
8	☐	500000.00	499018.14	28081086.39	287.3632	A	2.4

$$y = 5.7584\text{E-}004 * x + 0.0061$$

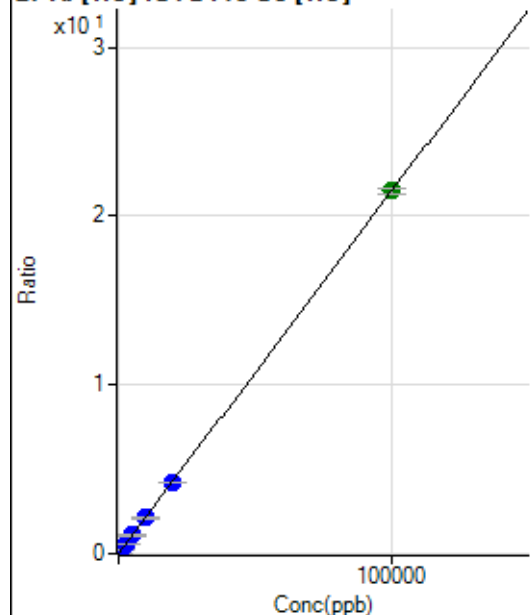
R = 1.0000

DL = 4.633

BEC = 10.67

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	384.54	0.0041	P	1.4
2	☐	20.000	21.550	810.76	0.0087	P	3.7
3	☐	1000.000	1082.146	21220.24	0.2363	P	9.3
4	☐	2500.000	2513.329	51258.09	0.5435	P	0.9
5	☐	5000.000	5069.675	102717.11	1.0921	P	2.9
6	☐	10000.000	9815.213	205323.98	2.1105	P	2.8
7	☐	20000.000	19512.906	409828.53	4.1917	P	0.5
8	☐	100000.00	100111.25	2099879.55	21.4890	A	1.5

$$y = 2.1461\text{E-}004 * x + 0.0041$$

R = 1.0000

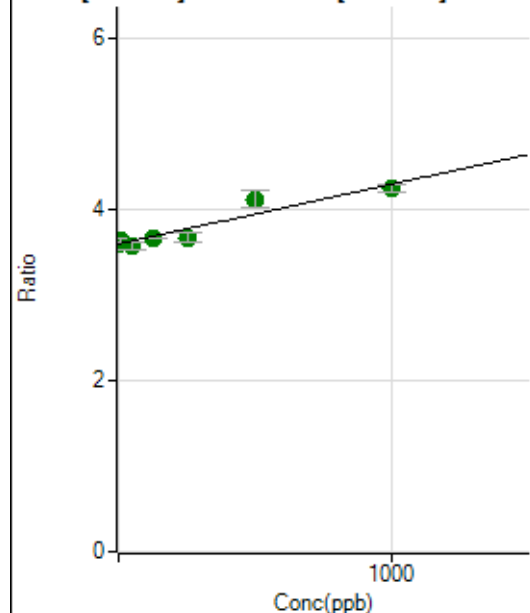
DL = 0.7733

BEC = 18.95

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	7523101.39	3.6030	A	2.3
2	☐	10.000	68.540	7555479.51	3.6508	A	1.3
3	☐	50.000	-51.673	7580138.10	3.5669	A	2.5
4	☐	125.000	97.324	7775644.10	3.6709	A	0.3
5	☐	250.000	102.568	7921043.75	3.6746	A	3.3
6	☐	500.000	750.971	8623582.57	4.1272	A	4.5
7	☐	1000.000	919.330	9228854.46	4.2448	A	2.0
8	☐			7810984.55	3.5226	A	2.4

$$y = 6.9810E-004 * x + 3.6030$$

$$R = 0.9416$$

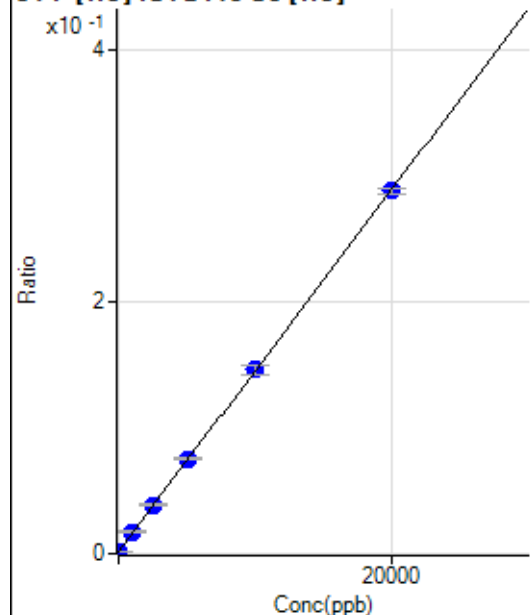
$$DL = 348.8$$

$$BEC = 5161$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	-4.859	150.01	0.0016	P	0.7
2	☐	0.000	4.859	161.12	0.0017	P	12.2
3	☐	1000.000	1097.873	1566.79	0.0175	P	11.7
4	☐	2500.000	2580.603	3658.88	0.0388	P	5.4
5	☐	5000.000	5105.983	7071.35	0.0751	P	2.4
6	☐	10000.000	10050.283	14229.58	0.1463	P	5.0
7	☐	20000.000	19933.394	28208.59	0.2885	P	1.4
8	☐			177.78	0.0018	P	27.6

$$y = 1.4392E-005 * x + 0.0017$$

$$R = 1.0000$$

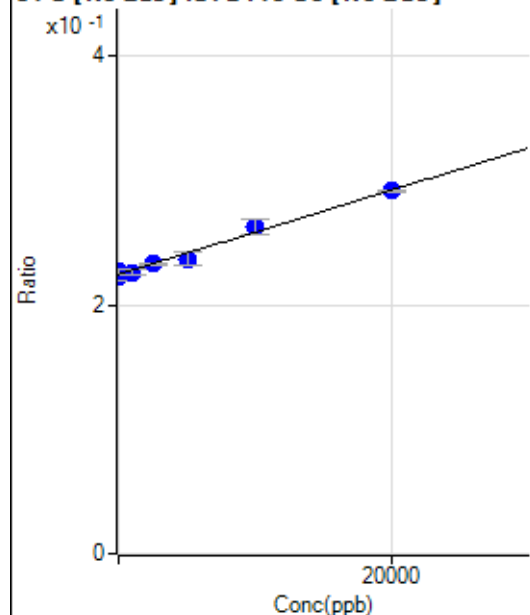
$$DL = 23.11$$

$$BEC = 115.1$$

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	-724.367	464167.91	0.2223	P	2.4
2	☐	0.000	724.367	470203.52	0.2272	P	1.7
3	☐	1000.000	514.784	481339.98	0.2265	P	2.5
4	☐	2500.000	2493.291	493944.49	0.2332	P	0.7
5	☐	5000.000	3659.762	511097.96	0.2371	P	4.2
6	☐	10000.000	11166.614	548542.36	0.2626	P	4.9
7	☐	20000.000	19776.852	634231.45	0.2917	P	0.9
8	☐			422634.36	0.1907	P	3.8

$$y = 3.3855E-006 * x + 0.2248$$

R = 0.9935

DL = 4091

BEC = 6.639E+04

Weight: <None>

Min Conc: 0

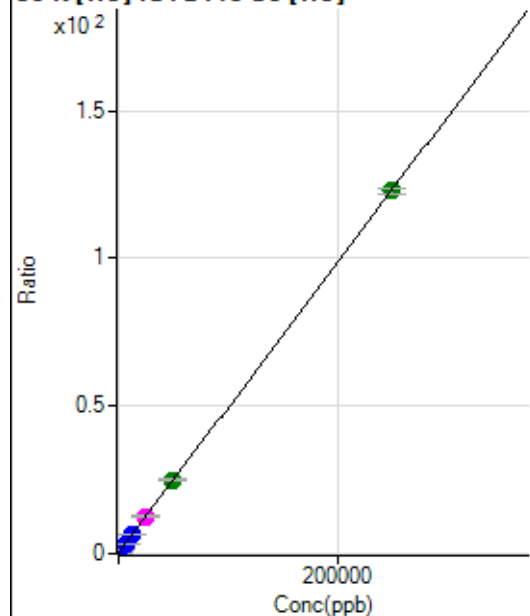
35 Cl [No Gas] No available calibration points



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			96862.64		P	1.8
2	☐			96110.26		P	2.0
3	☐			108009.76		P	0.9
4	☐			107360.60		P	0.2
5	☐			110864.68		P	0.7
6	☐			118326.01		P	0.2
7	☐			112722.99		P	0.9
8	☐			99536.21		P	1.4

35 Cl [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐			1069.52		P	11.3
2	☐			1077.84		P	6.3
3	☐			1130.63		P	5.4
4	☐			1175.08		P	3.3
5	☐			1177.86		P	12.7
6	☐			1169.52		P	5.8
7	☐			1150.08		P	2.2
8	☐			1097.30		P	9.4

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	30379.84	0.3213	P	3.6
2	☐	500.000	495.401	52621.45	0.5642	P	1.9
3	☐	2500.000	2752.126	149965.10	1.6707	P	10.2
4	☐	6250.000	6371.551	324931.30	3.4453	P	1.5
5	☐	12500.000	12963.300	628149.60	6.6773	P	1.5
6	☐	25000.000	25235.332	1234948.32	12.6945	M	3.1
7	☐	50000.000	50275.218	2441199.64	24.9718	A	2.0
8	☐	250000.00	249892.70	12003863.38	122.8465	A	1.5

$$y = 4.9031\text{E-}004 * x + 0.3213$$

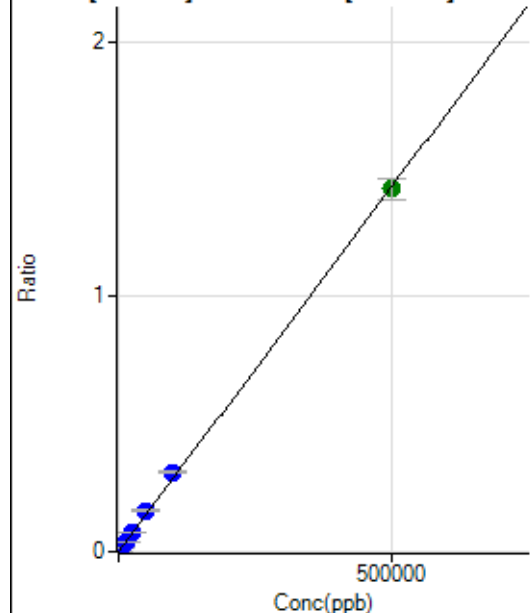
$$R = 1.0000$$

$$DL = 70.89$$

$$BEC = 655.3$$

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	180.81	0.0001	P	11.0
2	☐	500.000	536.966	3356.23	0.0016	P	3.1
3	☐	5000.000	5595.310	34175.23	0.0161	P	3.6
4	☐	12500.000	13682.480	83038.41	0.0392	P	1.9
5	☐	25000.000	27274.618	168321.81	0.0781	P	2.6
6	☐	50000.000	56610.901	338427.32	0.1619	P	3.9
7	☐	100000.00	109044.28	678039.88	0.3119	P	1.2
8	☐	500000.00	497380.77	3151218.06	1.4221	A	5.9

$$y = 2.8591\text{E-}006 * x + 8.6679\text{E-}005$$

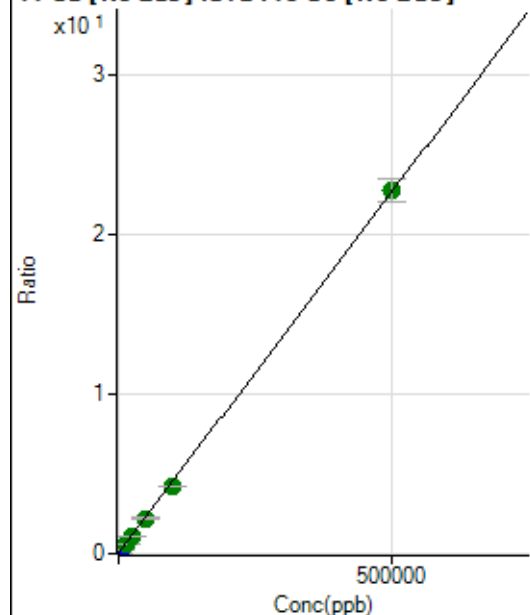
$$R = 0.9998$$

$$DL = 9.984$$

$$BEC = 30.32$$

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	50426.68	0.0242	P	2.4
2	☐	500.000	529.385	99604.30	0.0481	P	2.4
3	☐	5000.000	4716.516	505313.67	0.2378	P	3.5
4	☐	12500.000	11961.411	1198805.35	0.5660	A	2.8
5	☐	25000.000	23662.736	2363135.20	1.0961	A	2.9
6	☐	50000.000	48049.836	4600378.64	2.2009	A	3.2
7	☐	100000.00	92277.861	9141891.62	4.2046	A	1.5
8	☐	500000.00	501822.57	50424488.28	22.7580	A	6.3

$$y = 4.5303\text{E-}005 * x + 0.0242$$

$$R = 0.9999$$

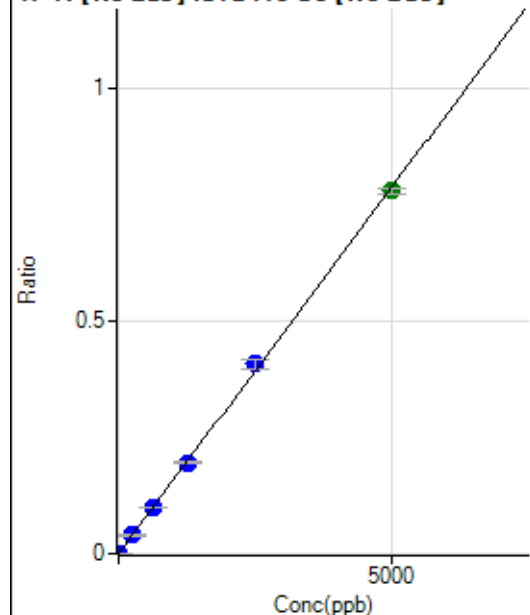
$$DL = 38.87$$

$$BEC = 533.1$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	275.01	0.0001	P	10.1
2	☐	5.000	5.492	2058.53	0.0010	P	2.2
3	☐	250.000	252.634	84616.12	0.0398	P	4.5
4	☐	625.000	632.607	210793.89	0.0995	P	2.2
5	☐	1250.000	1239.286	420245.33	0.1948	P	1.3
6	☐	2500.000	2590.532	850714.25	0.4072	P	4.7
7	☐	5000.000	4956.329	1693335.09	0.7789	A	1.7
8	☐			622.25	0.0003	P	9.4

$$y = 1.5712\text{E-}004 * x + 1.3186\text{E-}004$$

$$R = 0.9998$$

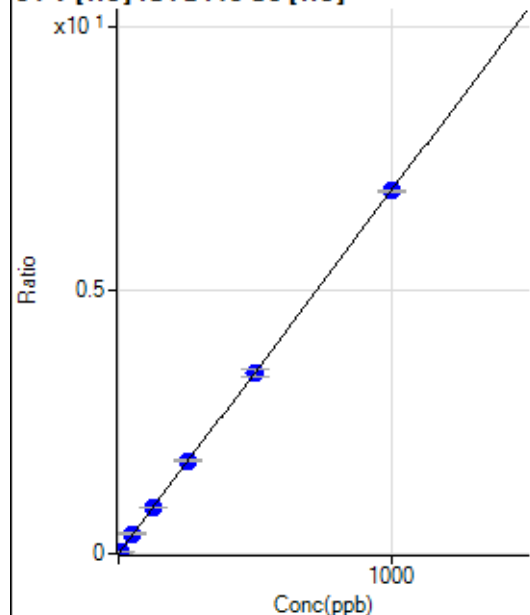
$$DL = 0.2552$$

$$BEC = 0.8392$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	13.33	0.0001	P	100.4
2	☐	5.000	5.231	3378.21	0.0362	P	4.2
3	☐	50.000	54.153	33578.30	0.3737	P	8.1
4	☐	125.000	126.657	82410.97	0.8738	P	1.6
5	☐	250.000	256.203	166260.57	1.7675	P	2.0
6	☐	500.000	498.336	334412.05	3.4377	P	3.5
7	☐	1000.000	998.865	673677.07	6.8905	P	0.8
8	☐			115.56	0.0012	P	7.5

$$y = 0.0069 * x + 1.4101\text{E-}004$$

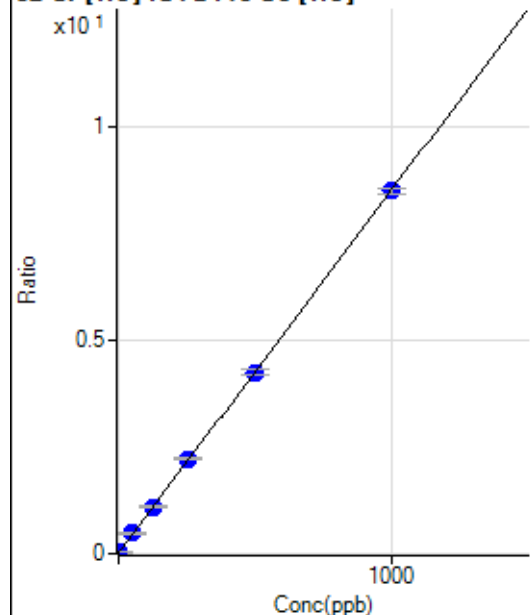
$$R = 1.0000$$

$$DL = 0.0616$$

$$BEC = 0.02044$$

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	1341.19	0.0142	P	5.7
2	☐	2.000	2.166	3043.69	0.0326	P	2.6
3	☐	50.000	54.372	42832.95	0.4772	P	10.0
4	☐	125.000	127.308	103551.55	1.0982	P	3.0
5	☐	250.000	259.164	208905.49	2.2210	P	2.7
6	☐	500.000	498.586	414384.24	4.2597	P	3.2
7	☐	1000.000	997.909	832070.74	8.5115	P	1.7
8	☐			6676.06	0.0683	P	1.8

$$y = 0.0085 * x + 0.0142$$

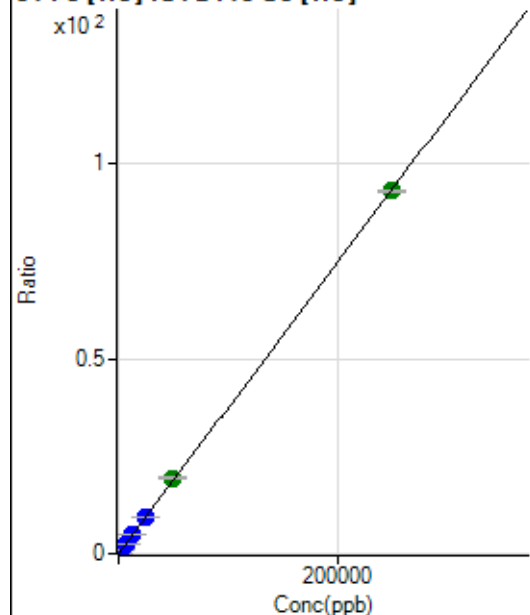
$$R = 1.0000$$

$$DL = 0.2842$$

$$BEC = 1.665$$

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	564.84	0.0060	P	4.5
2	☐	50.000	59.164	2615.10	0.0280	P	3.7
3	☐	2500.000	2723.728	91737.21	1.0219	P	9.9
4	☐	6250.000	6389.851	225369.87	2.3894	P	0.8
5	☐	12500.000	13003.142	456795.00	4.8562	P	2.3
6	☐	25000.000	25177.266	914306.75	9.3971	P	2.2
7	☐	50000.000	51891.258	1892730.83	19.3615	A	1.9
8	☐	250000.00	249573.12	9097491.87	93.0971	A	0.3

$$y = 3.7300E-004 * x + 0.0060$$

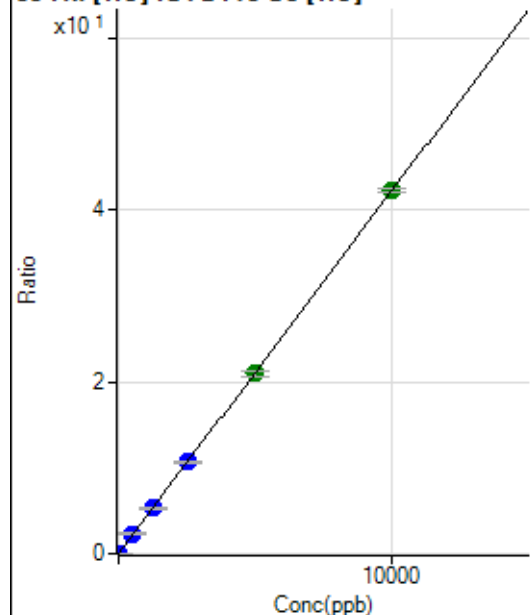
$$R = 1.0000$$

$$DL = 2.151$$

$$BEC = 16.01$$

Weight: <None>

Min Conc: 0

55 Mn [He] ISTD:45 Sc [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	84.45	0.0009	P	7.7
2	☐	1.000	1.095	514.46	0.0055	P	1.1
3	☐	500.000	533.829	202452.22	2.2544	P	9.2
4	☐	1250.000	1249.487	497471.54	5.2755	P	2.4
5	☐	2500.000	2536.100	1007091.65	10.7069	P	2.6
6	☐	5000.000	4962.648	2038244.66	20.9504	A	3.1
7	☐	10000.000	10008.024	4130622.48	42.2491	A	1.0
8	☐			2428.01	0.0248	P	4.0

$$y = 0.0042 * x + 8.9276E-004$$

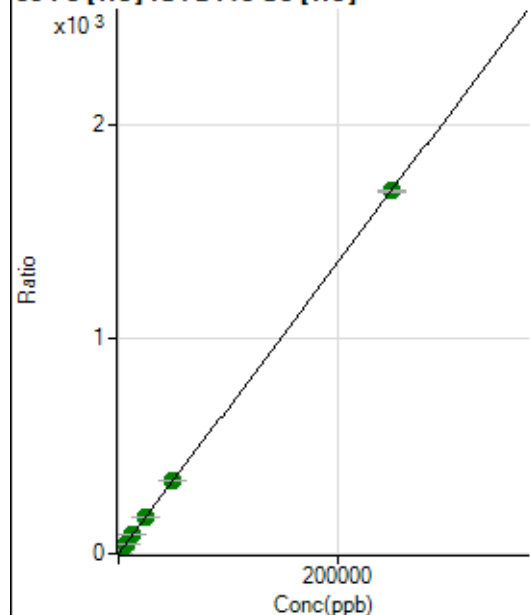
$$R = 1.0000$$

$$DL = 0.0491$$

$$BEC = 0.2115$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	2955.92	0.0313	P	2.1
2	☐	50.000	52.510	36073.46	0.3868	P	2.5
3	☐	2500.000	2807.620	1710230.28	19.0405	A	8.8
4	☐	6250.000	6508.504	4158983.37	44.0977	A	1.5
5	☐	12500.000	12968.731	8261581.67	87.8374	A	3.2
6	☐	25000.000	25084.901	16525282.43	169.8711	A	3.2
7	☐	50000.000	50459.307	33404501.21	341.6711	A	0.7
8	☐	250000.00	249866.67	165321264.8	1,691.778	A	0.5

$$y = 0.0068 * x + 0.0313$$

$$R = 1.0000$$

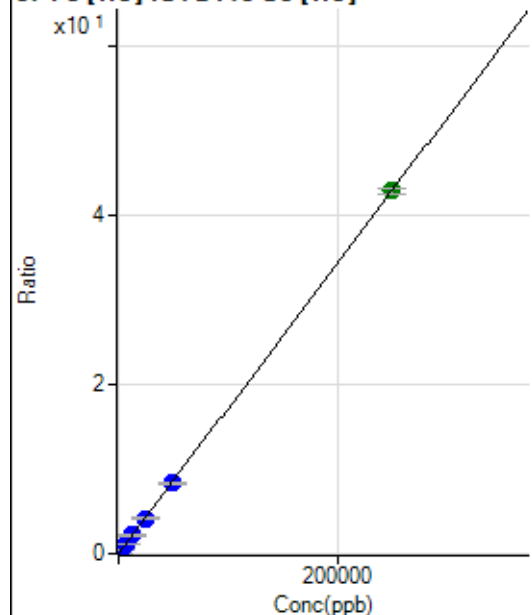
$$DL = 0.2904$$

$$BEC = 4.616$$

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	144.45	0.0015	P	46.5
2	☐	50.000	55.042	1022.28	0.0110	P	10.4
3	☐	2500.000	2661.420	41105.70	0.4580	P	10.1
4	☐	6250.000	6314.083	102260.49	1.0844	P	2.1
5	☐	12500.000	12663.173	204413.09	2.1732	P	2.7
6	☐	25000.000	24449.902	408075.69	4.1946	P	2.9
7	☐	50000.000	48448.310	812486.30	8.3103	P	0.6
8	☐	250000.00	250353.97	4195751.80	42.9366	A	1.8

$$y = 1.7150\text{E-}004 * x + 0.0015$$

$$R = 1.0000$$

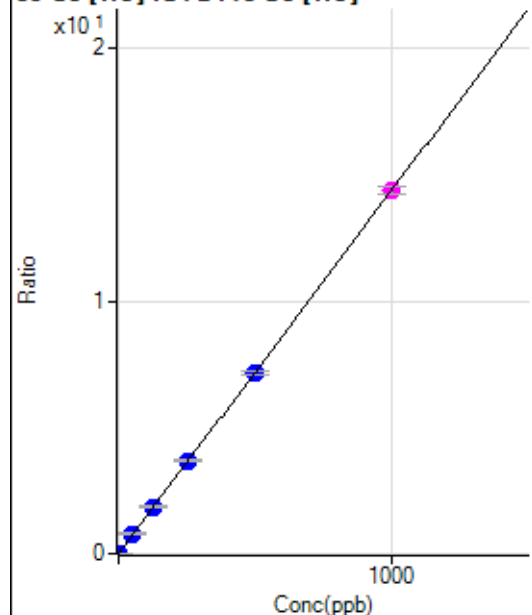
$$DL = 12.39$$

$$BEC = 8.887$$

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	64.45	0.0007	P	17.1
2	☐	1.000	1.051	1471.21	0.0158	P	5.4
3	☐	50.000	54.114	69871.48	0.7781	P	9.2
4	☐	125.000	127.922	173342.68	1.8384	P	2.9
5	☐	250.000	256.205	346257.19	3.6813	P	2.7
6	☐	500.000	497.527	695376.04	7.1480	P	3.1
7	☐	1000.000	999.114	1403201.61	14.3537	M	2.0
8	☐			2136.85	0.0219	P	1.8

$$y = 0.0144 * x + 6.8185\text{E-}004$$

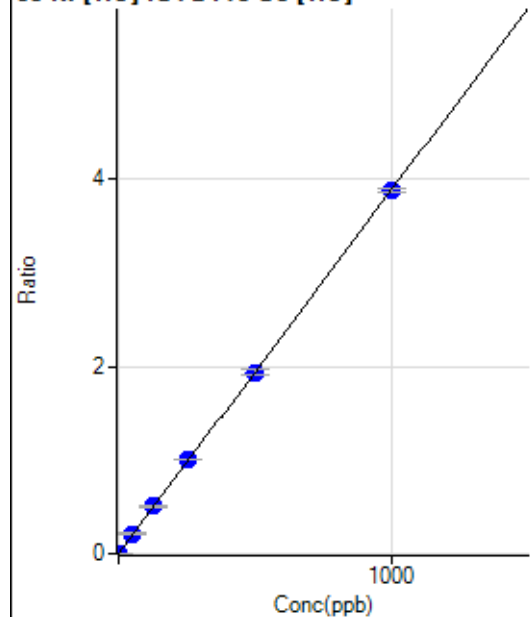
$$R = 1.0000$$

$$DL = 0.02434$$

$$BEC = 0.04746$$

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	43.33	0.0005	P	28.0
2	☐	1.000	1.185	472.24	0.0051	P	8.7
3	☐	50.000	55.189	19305.43	0.2148	P	7.9
4	☐	125.000	130.136	47711.88	0.5059	P	2.1
5	☐	250.000	258.911	94651.03	1.0062	P	1.7
6	☐	500.000	499.134	188639.88	1.9393	P	3.6
7	☐	1000.000	997.303	378776.95	3.8743	P	1.0
8	☐			1841.25	0.0188	P	2.3

$$y = 0.0039 * x + 4.5838E-004$$

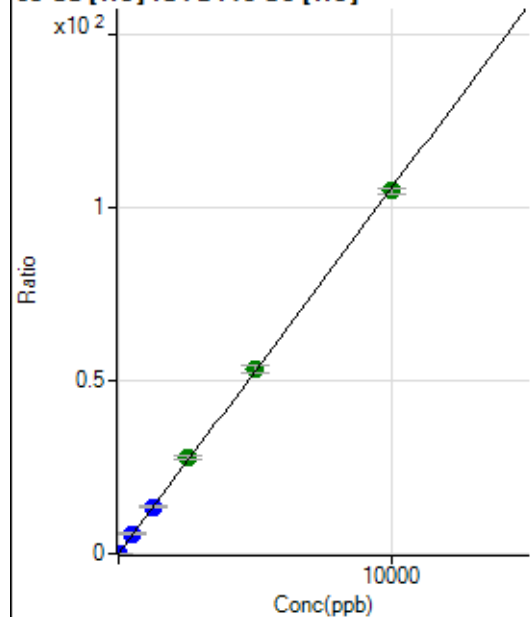
$$R = 0.9999$$

$$DL = 0.09916$$

$$BEC = 0.118$$

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	180.00	0.0019	P	9.3
2	☐	2.000	2.011	2161.29	0.0232	P	2.5
3	☐	500.000	546.998	519611.14	5.7854	P	9.0
4	☐	1250.000	1284.342	1280688.93	13.5814	P	2.4
5	☐	2500.000	2636.396	2622089.61	27.8768	A	2.6
6	☐	5000.000	5059.414	5203769.40	53.4955	A	3.6
7	☐	10000.000	9929.551	10264097.62	104.9879	A	1.2
8	☐			6470.43	0.0662	P	1.9

$$y = 0.0106 * x + 0.0019$$

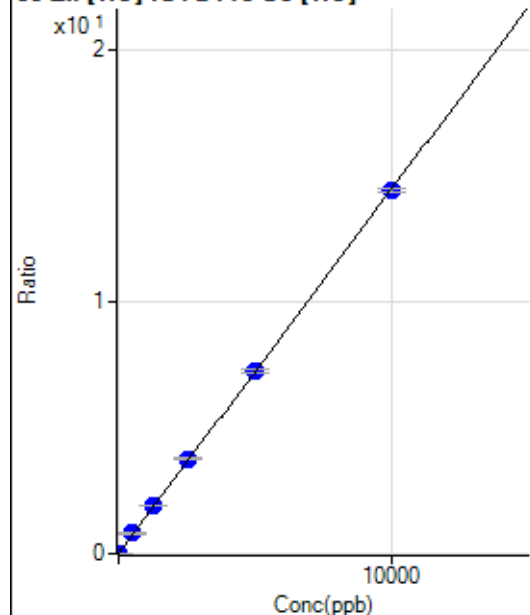
$$R = 0.9999$$

$$DL = 0.05028$$

$$BEC = 0.18$$

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	197.78	0.0021	P	13.2
2	☐	2.000	2.016	467.79	0.0050	P	8.2
3	☐	500.000	556.503	72576.88	0.8081	P	8.9
4	☐	1250.000	1310.598	179212.44	1.9003	P	1.6
5	☐	2500.000	2598.264	354162.54	3.7652	P	2.5
6	☐	5000.000	5019.262	707501.01	7.2716	P	2.2
7	☐	10000.000	9955.403	1409851.89	14.4207	P	1.0
8	☐			3577.15	0.0366	P	2.8

$$y = 0.0014 * x + 0.0021$$

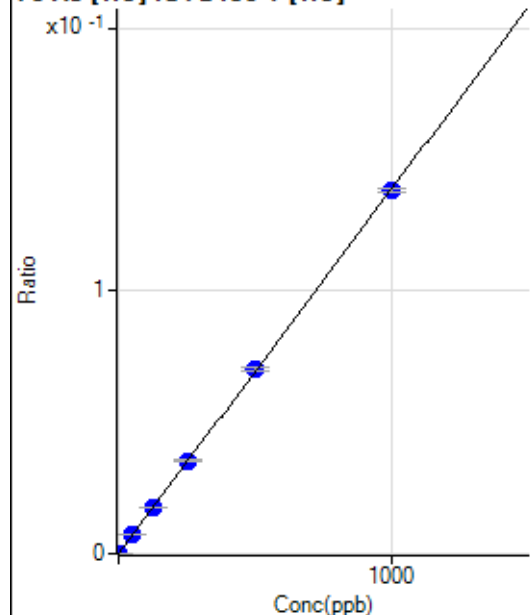
$$R = 0.9999$$

$$DL = 0.5738$$

$$BEC = 1.445$$

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	10.33	0.0000	P	47.8
2	☐	1.000	0.951	102.34	0.0001	P	4.5
3	☐	50.000	53.003	4953.38	0.0074	P	8.6
4	☐	125.000	126.854	12442.72	0.0176	P	2.1
5	☐	250.000	254.538	25077.71	0.0353	P	1.2
6	☐	500.000	506.304	50768.03	0.0703	P	2.8
7	☐	1000.000	995.332	101945.88	0.1381	P	1.2
8	☐			48.34	0.0001	P	7.6

$$y = 1.3875E-004 * x + 1.4598E-005$$

$$R = 1.0000$$

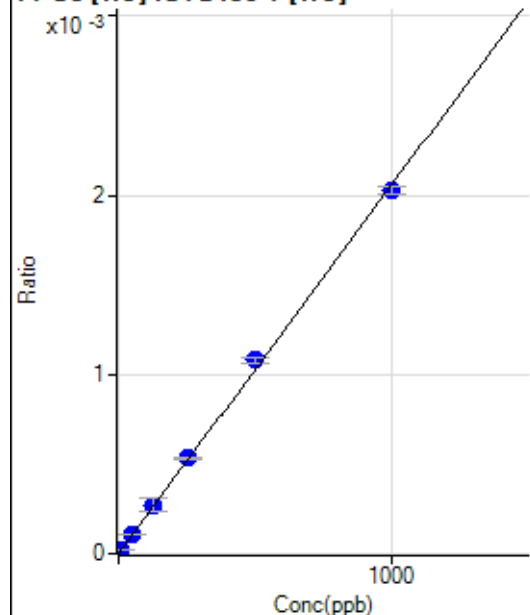
$$DL = 0.151$$

$$BEC = 0.1052$$

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	10.055	14.45	0.0000	P	26.2
3	☐	50.000	51.963	72.22	0.0001	P	3.1
4	☐	125.000	132.308	192.23	0.0003	P	25.9
5	☐	250.000	258.952	377.79	0.0005	P	2.6
6	☐	500.000	524.493	778.92	0.0011	P	3.6
7	☐	1000.000	984.479	1493.43	0.0020	P	2.1
8	☐			2.22	0.0000	P	86.6

$$y = 2.0551\text{E-}006 * x + 0.0000\text{E+}000$$

$$R = 0.9995$$

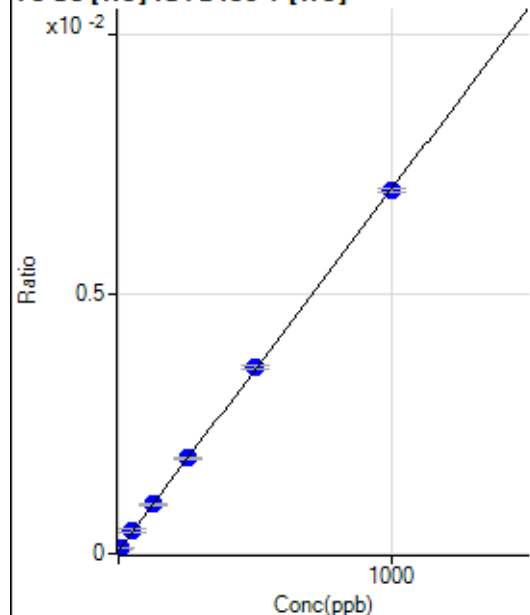
$$DL = 0$$

$$BEC = 0$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	46.67	0.0001	P	3.9
2	☐	5.000	5.010	70.34	0.0001	P	9.6
3	☐	50.000	54.650	299.70	0.0004	P	10.2
4	☐	125.000	127.890	674.42	0.0010	P	3.2
5	☐	250.000	254.034	1299.86	0.0018	P	3.5
6	☐	500.000	507.152	2594.84	0.0036	P	2.1
7	☐	1000.000	994.822	5152.13	0.0070	P	1.2
8	☐			43.34	0.0001	P	19.2

$$y = 6.9500\text{E-}006 * x + 6.5910\text{E-}005$$

$$R = 0.9999$$

$$DL = 1.113$$

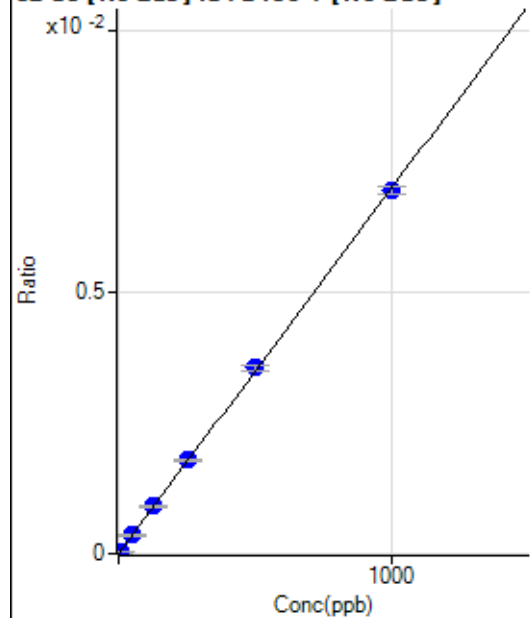
$$BEC = 9.483$$

Weight: <None>

Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1678.51		P	1.7
2	☐			1852.05		P	10.8
3	☐			1675.16		P	3.5
4	☐			1598.41		P	4.0
5	☐			1778.62		P	6.0
6	☐			1605.08		P	5.9
7	☐			1738.57		P	7.8
8	☐			1892.09		P	10.1

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	-38.21	0.0000	P	-370.
2	☐	5.000	4.261	100.45	0.0000	P	54.1
3	☐	50.000	50.721	1642.46	0.0003	P	9.6
4	☐	125.000	129.730	4281.70	0.0009	P	3.5
5	☐	250.000	255.404	8561.66	0.0018	P	1.8
6	☐	500.000	509.031	17048.46	0.0035	P	2.6
7	☐	1000.000	993.510	34075.50	0.0069	P	2.3
8	☐			-64.80	0.0000	P	-19.0

$$y = 6.9848E-006 * x - 8.0358E-006$$

$$R = 0.9999$$

$$DL = 12.79$$

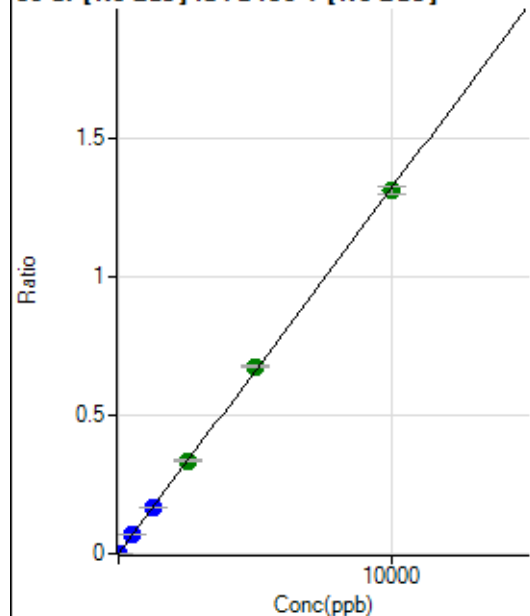
$$BEC = -1.15$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2026.84		P	5.8
2	☐			2007.94		P	4.6
3	☐			1997.94		P	5.0
4	☐			1983.49		P	2.8
5	☐			1969.04		P	2.1
6	☐			1955.71		P	3.8
7	☐			1971.27		P	4.4
8	☐			1969.05		P	2.4

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	3200.45	0.0007	P	8.0
2	☐	1.000	1.392	4020.14	0.0009	P	3.5
3	☐	500.000	511.850	323842.82	0.0683	P	2.9
4	☐	1250.000	1264.627	800158.48	0.1678	P	1.6
5	☐	2500.000	2525.892	1612908.81	0.3345	A	2.2
6	☐	5000.000	5124.103	3258653.92	0.6780	A	1.6
7	☐	10000.000	9929.055	6455105.74	1.3131	A	2.3
8	☐			5245.56	0.0010	P	3.7

$$y = 1.3218\text{E-}004 * x + 6.7952\text{E-}004$$

$$R = 0.9999$$

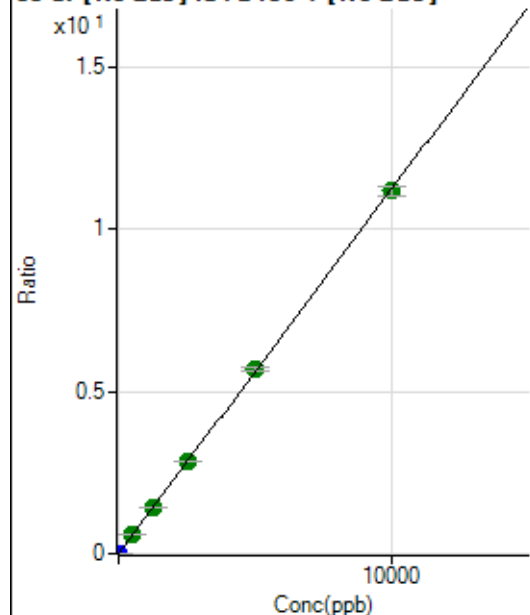
$$DL = 1.229$$

$$BEC = 5.141$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	319.46	0.0001	P	5.6
2	☐	1.000	1.033	5712.44	0.0012	P	3.7
3	☐	500.000	520.144	2766879.92	0.5838	A	3.4
4	☐	1250.000	1260.772	6746423.02	1.4151	A	1.4
5	☐	2500.000	2520.925	13640671.66	2.8293	A	0.9
6	☐	5000.000	5075.999	27380954.61	5.6969	A	2.2
7	☐	10000.000	9954.416	54922433.17	11.1721	A	2.5
8	☐			18284.64	0.0036	P	2.6

$$y = 0.0011 * x + 6.7855E-005$$

$$R = 1.0000$$

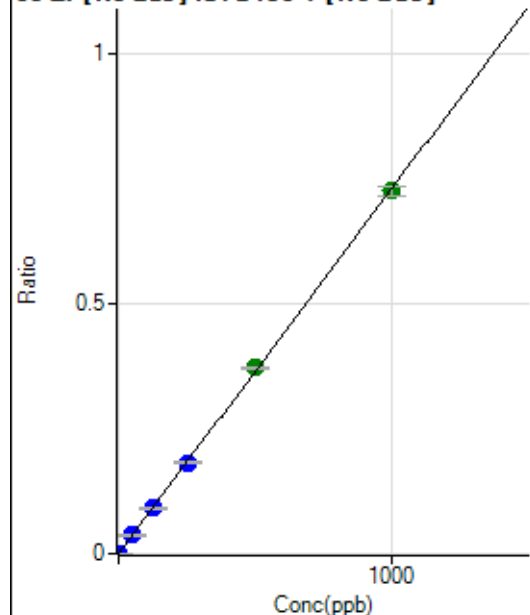
$$DL = 0.01025$$

$$BEC = 0.06046$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	266.68	0.0001	P	12.3
2	☐	1.000	0.983	3603.34	0.0008	P	3.5
3	☐	50.000	50.792	175869.82	0.0371	P	3.6
4	☐	125.000	125.042	435211.47	0.0913	P	2.3
5	☐	250.000	250.366	880915.60	0.1827	P	1.4
6	☐	500.000	510.179	1789684.76	0.3723	A	0.7
7	☐	1000.000	994.774	3568112.62	0.7258	A	2.9
8	☐			1047.29	0.0002	P	11.8

$$y = 7.2960E-004 * x + 5.6544E-005$$

$$R = 0.9999$$

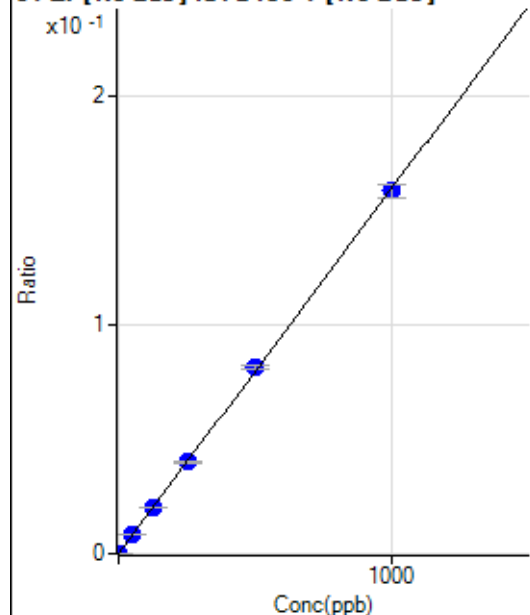
$$DL = 0.02849$$

$$BEC = 0.0775$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	58.33	0.0000	P	23.2
2	☐	1.000	1.061	844.50	0.0002	P	14.3
3	☐	50.000	51.197	38745.99	0.0082	P	2.8
4	☐	125.000	125.142	95194.39	0.0200	P	1.8
5	☐	250.000	251.340	193278.42	0.0401	P	1.8
6	☐	500.000	510.651	391434.61	0.0814	P	1.7
7	☐	1000.000	994.262	779393.14	0.1586	P	3.4
8	☐			213.90	0.0000	P	26.0

$$y = 1.5946\text{E-}004 * x + 1.2354\text{E-}005$$

$$R = 0.9999$$

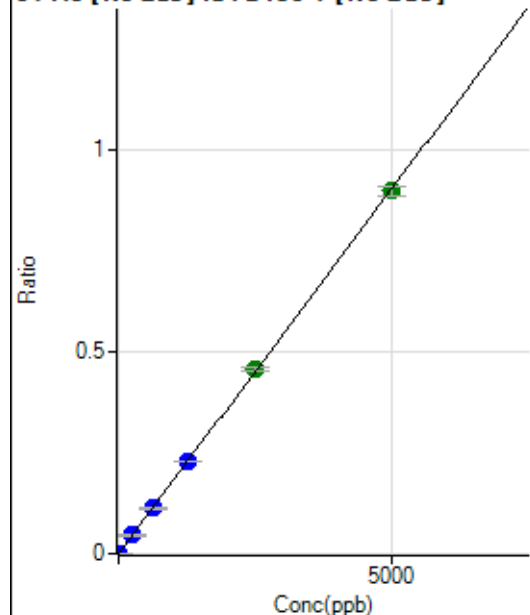
$$DL = 0.05391$$

$$BEC = 0.07748$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	125.01	0.0000	P	16.7
2	☐	5.000	4.812	4164.63	0.0009	P	8.0
3	☐	250.000	252.387	215830.94	0.0455	P	2.8
4	☐	625.000	623.342	536071.74	0.1124	P	2.0
5	☐	1250.000	1263.764	1098937.92	0.2279	P	1.7
6	☐	2500.000	2537.235	2199465.39	0.4576	A	1.6
7	☐	5000.000	4978.029	4413384.91	0.8978	A	2.7
8	☐			1364.00	0.0003	P	18.1

$$y = 1.8034\text{E-}004 * x + 2.6513\text{E-}005$$

$$R = 1.0000$$

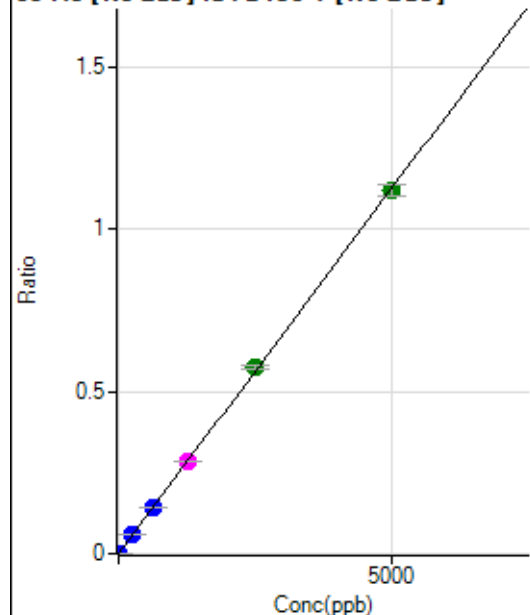
$$DL = 0.07385$$

$$BEC = 0.147$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	27.78	0.0000	P	44.7
2	☐	5.000	4.878	5137.21	0.0011	P	7.4
3	☐	250.000	254.463	271566.11	0.0573	P	2.2
4	☐	625.000	624.227	670104.02	0.1406	P	1.6
5	☐	1250.000	1259.884	1367574.47	0.2837	M	0.6
6	☐	2500.000	2554.366	2764450.80	0.5751	A	1.6
7	☐	5000.000	4970.219	5501046.35	1.1191	A	3.3
8	☐			1914.07	0.0004	P	3.3

$$y = 2.2516\text{E-}004 * x + 5.8903\text{E-}006$$

$$R = 0.9999$$

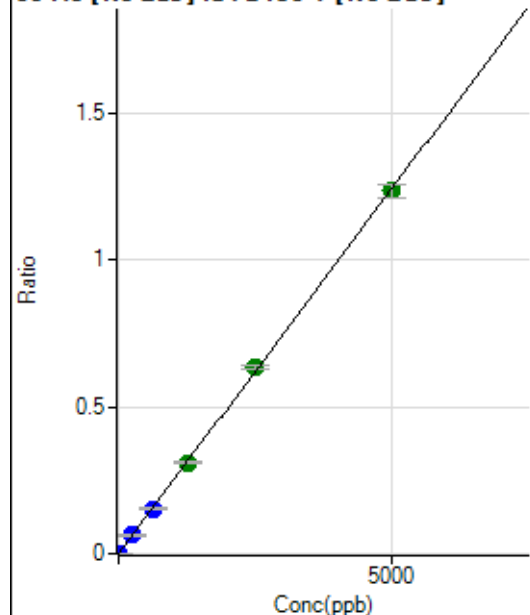
$$DL = 0.03509$$

$$BEC = 0.02616$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	77.78	0.0000	P	35.5
2	☐	5.000	4.813	5634.62	0.0012	P	2.9
3	☐	250.000	252.914	297337.95	0.0627	P	2.1
4	☐	625.000	613.705	725681.07	0.1522	P	2.5
5	☐	1250.000	1252.423	1497384.43	0.3106	A	1.0
6	☐	2500.000	2549.397	3038799.48	0.6323	A	2.1
7	☐	5000.000	4975.962	6065821.40	1.2340	A	3.7
8	☐			2436.40	0.0005	P	1.9

$$y = 2.4799\text{E-}004 * x + 1.6403\text{E-}005$$

$$R = 0.9999$$

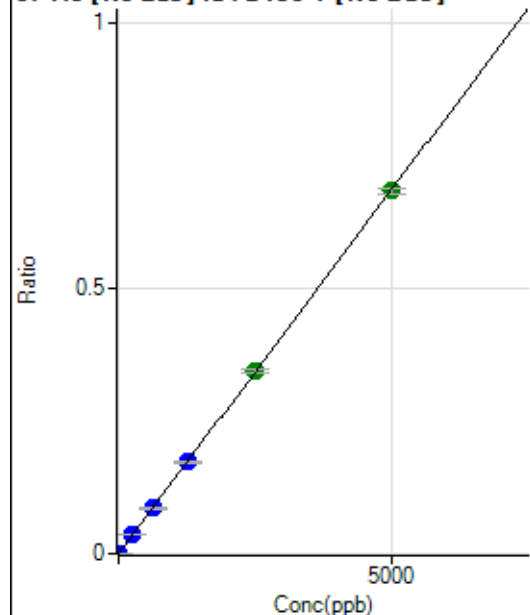
$$DL = 0.07046$$

$$BEC = 0.06614$$

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	13.89	0.0000	P	125.0
2	☐	5.000	5.152	3300.48	0.0007	P	7.1
3	☐	250.000	256.983	166975.66	0.0352	P	2.9
4	☐	625.000	628.123	410553.62	0.0861	P	3.3
5	☐	1250.000	1262.772	834612.13	0.1731	P	1.3
6	☐	2500.000	2519.897	1660541.14	0.3455	A	1.9
7	☐	5000.000	4986.119	3360950.51	0.6836	A	1.6
8	☐			1080.63	0.0002	P	5.5

$$y = 1.3709\text{E-}004 * x + 2.8940\text{E-}006$$

$$R = 1.0000$$

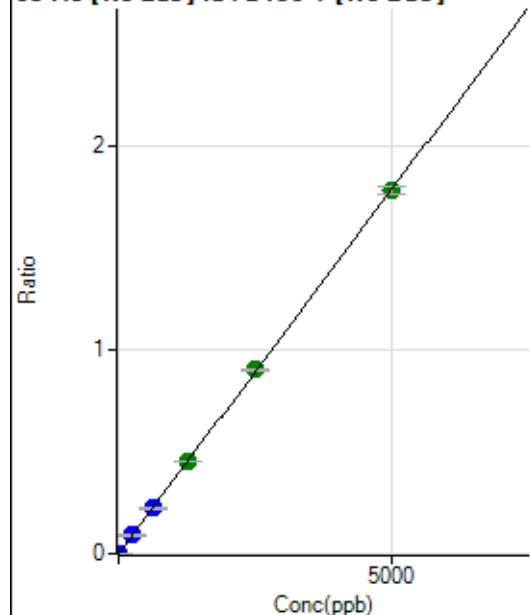
$$DL = 0.07919$$

$$BEC = 0.02111$$

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	8.33	0.0000	P	98.0
2	☐	5.000	4.901	8174.82	0.0018	P	3.7
3	☐	250.000	254.088	430630.82	0.0909	P	2.9
4	☐	625.000	621.425	1059506.87	0.2222	P	2.8
5	☐	1250.000	1261.888	2175617.74	0.4513	A	0.0
6	☐	2500.000	2526.360	4342540.68	0.9035	A	1.7
7	☐	5000.000	4984.090	8762798.55	1.7824	A	2.0
8	☐			2930.95	0.0006	P	7.2

$$y = 3.5762\text{E-}004 * x + 1.7671\text{E-}006$$

$$R = 1.0000$$

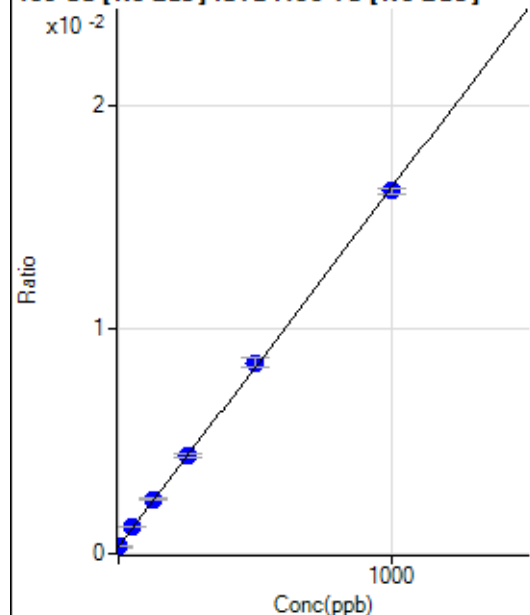
$$DL = 0.01453$$

$$BEC = 0.004941$$

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	905.61	0.0003	P	8.8
2	☐	1.000	3.408	1061.18	0.0004	P	5.7
3	☐	50.000	54.418	3494.98	0.0012	P	0.1
4	☐	125.000	131.632	7168.72	0.0024	P	2.1
5	☐	250.000	253.307	13112.11	0.0044	P	4.0
6	☐	500.000	513.566	24914.86	0.0085	P	4.0
7	☐	1000.000	991.338	49461.53	0.0162	P	1.4
8	☐			1111.19	0.0004	P	3.9

$$y = 1.5988\text{E-}005 * x + 3.1156\text{E-}004$$

$$R = 0.9999$$

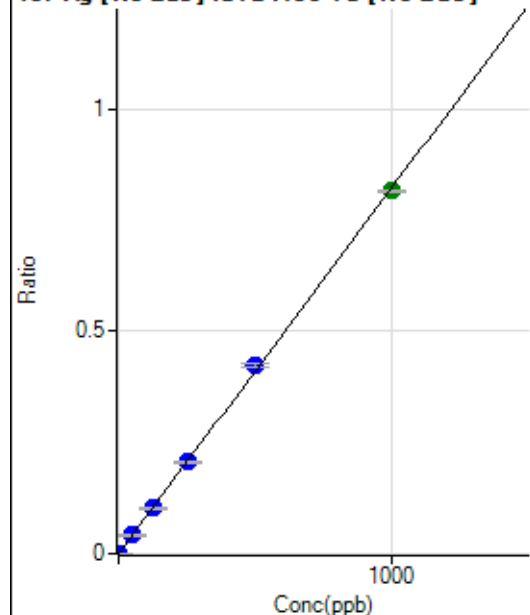
$$DL = 5.137$$

$$BEC = 19.49$$

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	27.78	0.0000	P	49.2
2	☐	1.000	0.980	2361.37	0.0008	P	1.4
3	☐	50.000	50.238	122164.06	0.0413	P	2.9
4	☐	125.000	124.293	303172.71	0.1022	P	1.4
5	☐	250.000	250.394	618850.23	0.2059	P	1.6
6	☐	500.000	514.425	1236735.76	0.4229	P	2.6
7	☐	1000.000	992.766	2498031.46	0.8162	A	0.7
8	☐			830.61	0.0003	P	20.3

$$y = 8.2215\text{E-}004 * x + 9.6400\text{E-}006$$

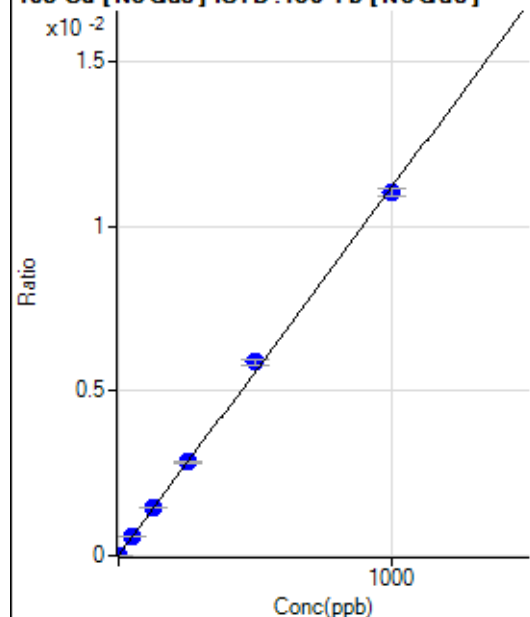
$$R = 0.9998$$

$$DL = 0.01731$$

$$BEC = 0.01173$$

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	11.11	0.0000	P	76.6
2	☐	1.000	0.686	33.33	0.0000	P	31.5
3	☐	50.000	51.196	1705.68	0.0006	P	2.3
4	☐	125.000	130.430	4341.01	0.0015	P	2.4
5	☐	250.000	254.193	8559.70	0.0028	P	2.7
6	☐	500.000	524.989	17188.63	0.0059	P	3.0
7	☐	1000.000	985.719	33762.17	0.0110	P	2.2
8	☐			30.56	0.0000	P	37.8

$$y = 1.1188\text{E-}005 * x + 3.8091\text{E-}006$$

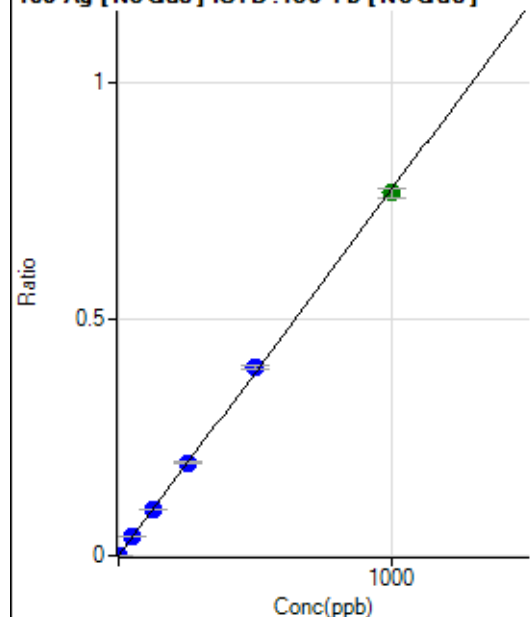
$$R = 0.9995$$

$$DL = 0.7822$$

$$BEC = 0.3405$$

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	13.89	0.0000	P	67.1
2	☐	1.000	0.990	2233.58	0.0008	P	8.4
3	☐	50.000	51.166	117242.06	0.0396	P	3.3
4	☐	125.000	126.878	291668.06	0.0983	P	1.1
5	☐	250.000	253.076	589406.75	0.1961	P	2.0
6	☐	500.000	516.030	1169241.77	0.3998	P	2.3
7	☐	1000.000	990.923	2349752.91	0.7678	A	2.4
8	☐			886.17	0.0003	P	6.2

$$y = 7.7482\text{E-}004 * x + 4.7301\text{E-}006$$

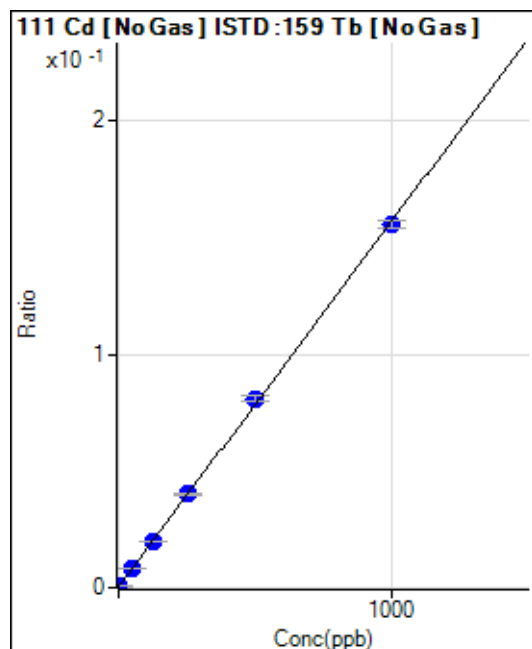
$$R = 0.9998$$

$$DL = 0.01229$$

$$BEC = 0.006105$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	628.93	0.0002	P	10.0
2	☐	1.000	1.273	1204.23	0.0004	P	0.8
3	☐	50.000	51.807	24630.88	0.0083	P	1.5
4	☐	125.000	124.833	58623.17	0.0198	P	0.4
5	☐	250.000	254.253	120321.48	0.0400	P	1.8
6	☐	500.000	516.449	237090.39	0.0811	P	2.6
7	☐	1000.000	990.643	475368.89	0.1553	P	2.0
8	☐			892.56	0.0003	P	5.8

$$y = 1.5658\text{E-}004 * x + 2.1639\text{E-}004$$

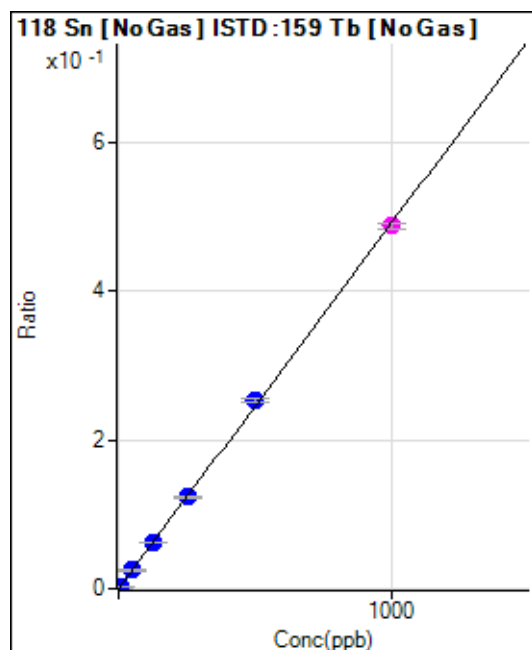
$$R = 0.9998$$

$$DL = 0.4145$$

$$BEC = 1.382$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	227.79	0.0001	P	8.9
2	☐	5.000	5.123	7513.33	0.0026	P	3.0
3	☐	50.000	50.434	73489.61	0.0249	P	2.9
4	☐	125.000	124.460	181585.88	0.0612	P	1.0
5	☐	250.000	250.072	369486.47	0.1229	P	1.3
6	☐	500.000	514.774	739673.42	0.2529	P	1.7
7	☐	1000.000	992.640	1492386.92	0.4876	M	1.5
8	☐			1152.86	0.0004	P	4.7

$$y = 4.9118\text{E-}004 * x + 7.8282\text{E-}005$$

$$R = 0.9998$$

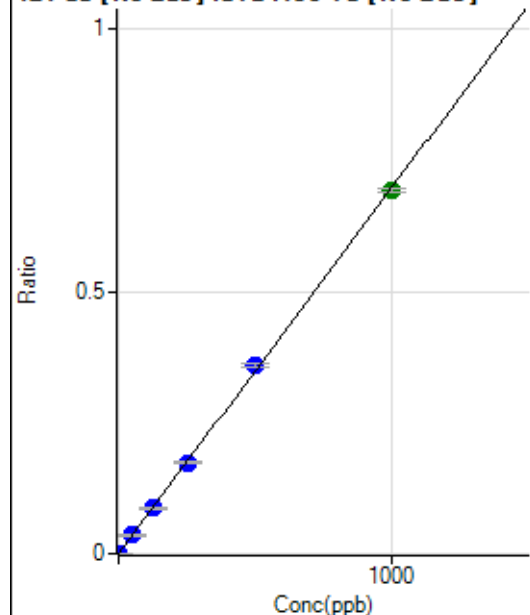
$$DL = 0.04243$$

$$BEC = 0.1594$$

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	11.11	0.0000	P	47.1
2	☐	2.000	1.945	3936.79	0.0014	P	7.1
3	☐	50.000	50.367	103821.05	0.0351	P	2.7
4	☐	125.000	123.927	256231.52	0.0864	P	2.0
5	☐	250.000	249.669	523106.14	0.1740	P	2.1
6	☐	500.000	515.848	1051402.39	0.3595	P	2.1
7	☐	1000.000	992.275	2116760.70	0.6916	A	1.0
8	☐			1355.66	0.0004	P	7.8

$$y = 6.9699\text{E-}004 * x + 3.8568\text{E-}006$$

$$R = 0.9998$$

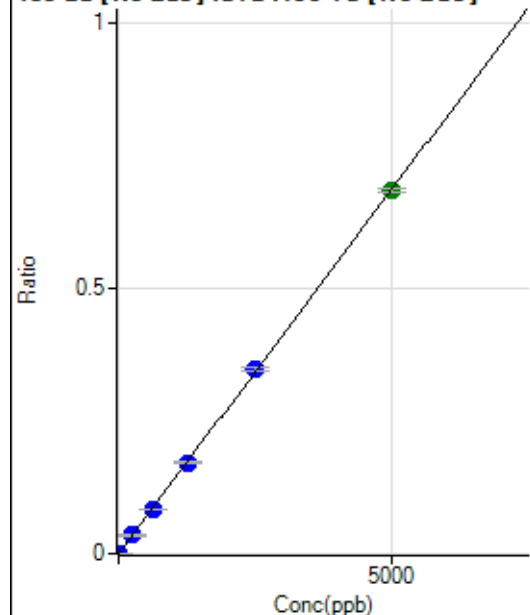
$$DL = 0.007814$$

$$BEC = 0.005534$$

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	13.89	0.0000	P	93.0
2	☐	10.000	10.283	4100.75	0.0014	P	7.5
3	☐	250.000	251.180	102044.40	0.0345	P	1.8
4	☐	625.000	614.800	250474.25	0.0844	P	1.2
5	☐	1250.000	1246.003	514378.72	0.1711	P	1.9
6	☐	2500.000	2534.384	1017789.33	0.3481	P	2.7
7	☐	5000.000	4985.023	2095493.58	0.6847	A	1.2
8	☐			913.95	0.0003	P	4.5

$$y = 1.3734\text{E-}004 * x + 4.8572\text{E-}006$$

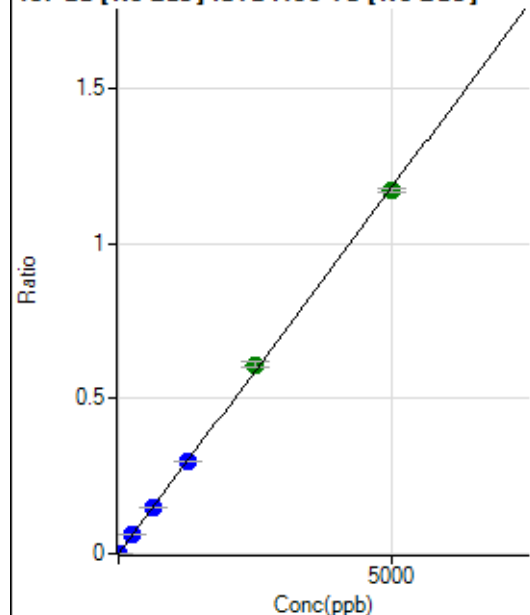
$$R = 1.0000$$

$$DL = 0.09863$$

$$BEC = 0.03537$$

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	25.00	0.0000	P	31.2
2	☐	10.000	10.295	7065.95	0.0024	P	5.9
3	☐	250.000	258.377	180560.74	0.0610	P	1.3
4	☐	625.000	630.596	441977.21	0.1490	P	1.1
5	☐	1250.000	1262.494	896604.49	0.2983	P	1.0
6	☐	2500.000	2579.138	1781566.86	0.6093	A	3.1
7	☐	5000.000	4956.189	3583514.97	1.1709	A	1.2
8	☐			1525.13	0.0005	P	7.4

$$y = 2.3625E-004 * x + 8.5442E-006$$

$$R = 0.9998$$

$$DL = 0.03389$$

$$BEC = 0.03617$$

Weight: <None>

Min Conc: 0

150 Nd [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			4.44		P	173.2
2	☐			2.22		P	173.2
3	☐			4.44		P	173.2
4	☐			8.89		P	114.5
5	☐			17.78		P	78.1
6	☐			26.67		P	25.0
7	☐			62.22		P	27.0
8	☐			24.44		P	56.8

150 Nd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			0.00		P	
2	☐			0.00		P	
3	☐			0.00		P	
4	☐			1.11		P	173.2
5	☐			1.11		P	173.2
6	☐			4.44		P	43.4
7	☐			5.55		P	69.3
8	☐			5.56		P	34.7

156 Dy [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			5.55		P	86.6
2	☐			2.78		P	173.2
3	☐			8.33		P	100.0
4	☐			33.33		P	66.2
5	☐			41.67		P	72.1
6	☐			80.56		P	26.0
7	☐			127.78		P	7.5
8	☐			425.02		P	13.6

156 Dy [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1.11		P	173.2
2	☐			0.00		P	
3	☐			6.67		P	50.0
4	☐			10.00		P	33.3
5	☐			26.67		P	33.1
6	☐			37.78		P	25.5
7	☐			76.67		P	34.0
8	☐			303.34		P	5.8

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			22.22		P	21.6
2	☐			27.78		P	34.6
3	☐			30.55		P	68.6
4	☐			25.00		P	88.2
5	☐			50.00		P	28.9
6	☐			63.89		P	7.5
7	☐			122.23		P	32.2
8	☐			522.25		P	4.9

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			13.33		P	25.0
2	☐			8.89		P	43.3
3	☐			11.11		P	34.6
4	☐			21.11		P	65.7
5	☐			23.34		P	49.5
6	☐			43.33		P	20.4
7	☐			60.00		P	22.2
8	☐			306.67		P	5.8

164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			33.33		P	66.1
2	☐			33.33		P	90.1
3	☐			19.44		P	49.5
4	☐			30.55		P	68.6
5	☐			33.34		P	43.3
6	☐			27.78		P	45.8
7	☐			25.00		P	33.3
8	☐			83.34		P	36.1

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			10.00		P	0.0
2	☐			14.44		P	81.1
3	☐			11.11		P	69.3
4	☐			12.22		P	41.7
5	☐			8.89		P	57.3
6	☐			12.22		P	63.0
7	☐			14.45		P	48.0
8	☐			30.00		P	11.1

172 Yb [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			16.67		P	50.0
2	☐			13.89		P	91.6
3	☐			8.33		P	0.0
4	☐			19.45		P	24.7
5	☐			13.89		P	124.9
6	☐			13.89		P	91.6
7	☐			16.67		P	100.0
8	☐			13.89		P	91.6

172 Yb [He] No available calibration points

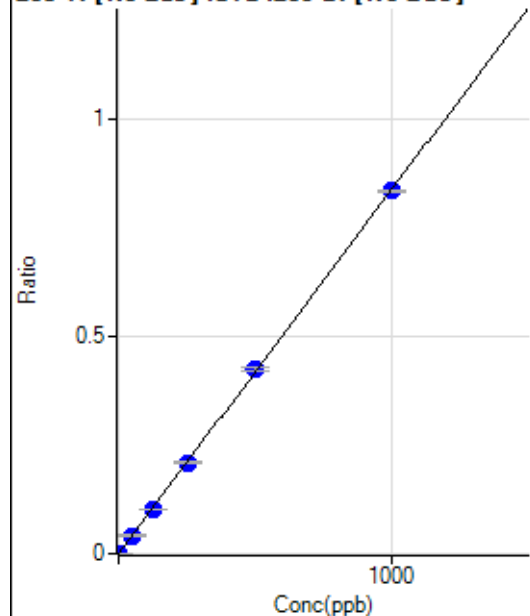
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			3.71		P	86.6
2	☐			7.41		P	43.2
3	☐			9.26		P	91.7
4	☐			3.71		P	86.6
5	☐			7.41		P	173.2
6	☐			7.41		P	114.5
7	☐			11.11		P	50.0
8	☐			14.82		P	57.3

176 Yb [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			333.34		P	11.5
2	☐			261.12		P	14.7
3	☐			305.57		P	6.9
4	☐			238.90		P	35.3
5	☐			291.68		P	5.0
6	☐			280.57		P	4.5
7	☐			244.45		P	12.0
8	☐			283.34		P	10.2

176 Yb [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			222.23		P	33.6
2	☐			181.49		P	12.7
3	☐			185.19		P	7.5
4	☐			140.75		P	9.1
5	☐			153.71		P	36.2
6	☐			166.67		P	36.7
7	☐			155.56		P	21.7
8	☐			137.04		P	22.3

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	38.89	0.0000	P	10.1
2	☐	1.000	0.979	1294.54	0.0008	P	3.1
3	☐	50.000	49.999	66043.64	0.0419	P	2.7
4	☐	125.000	122.648	164758.95	0.1028	P	0.7
5	☐	250.000	249.968	332119.59	0.2095	P	2.1
6	☐	500.000	506.306	662083.40	0.4242	P	2.6
7	☐	1000.000	997.149	1326781.25	0.8355	P	0.6
8	☐			611.14	0.0004	P	17.2

$$y = 8.3785E-004 * x + 2.4879E-005$$

$$R = 1.0000$$

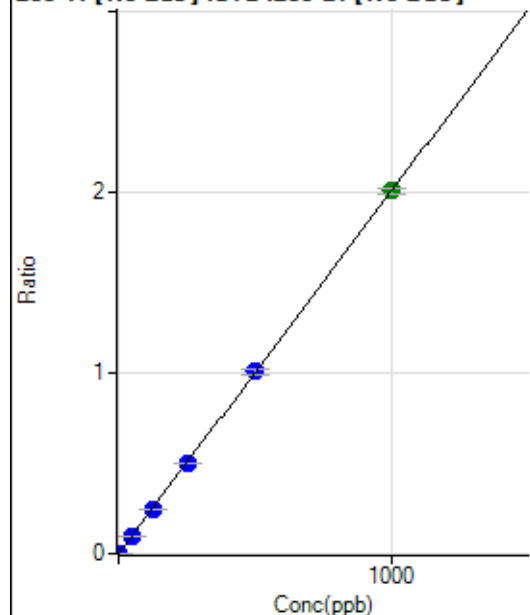
$$DL = 0.008976$$

$$BEC = 0.02969$$

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	105.56	0.0001	P	28.5
2	☐	1.000	1.024	3247.73	0.0021	P	2.4
3	☐	50.000	49.686	156995.67	0.0996	P	2.4
4	☐	125.000	122.152	392430.31	0.2448	P	0.9
5	☐	250.000	248.173	788681.73	0.4974	P	0.9
6	☐	500.000	501.337	1567918.02	1.0047	P	2.5
7	☐	1000.000	1000.160	3183078.11	2.0043	A	1.9
8	☐			1369.55	0.0009	P	12.9

$$y = 0.0020 * x + 6.7477E-005$$

$$R = 1.0000$$

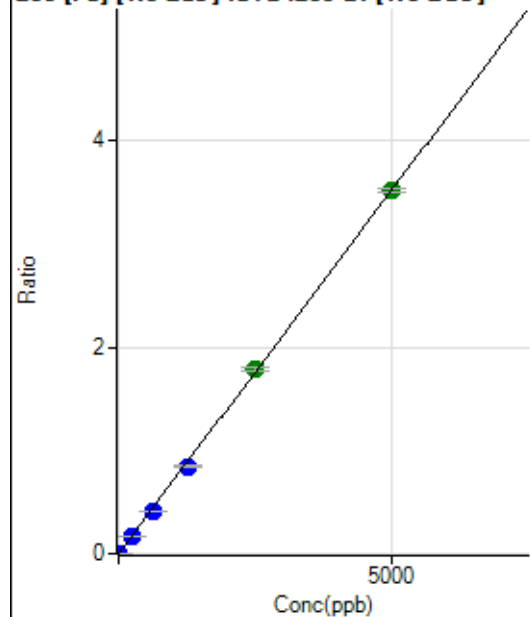
$$DL = 0.02879$$

$$BEC = 0.03367$$

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	159.27	0.0001	P	15.5
2	☐	1.000	0.979	1213.05	0.0008	P	2.6
3	☐	250.000	239.733	266104.69	0.1689	P	2.7
4	☐	625.000	586.973	662440.41	0.4134	P	1.4
5	☐	1250.000	1200.960	1340956.83	0.8456	P	0.7
6	☐	2500.000	2546.005	2797604.08	1.7926	A	2.6
7	☐	5000.000	4994.524	5584484.21	3.5165	A	1.0
8	☐			11345.83	0.0073	P	4.8

$$y = 7.0405E-004 * x + 1.0223E-004$$

$$R = 0.9999$$

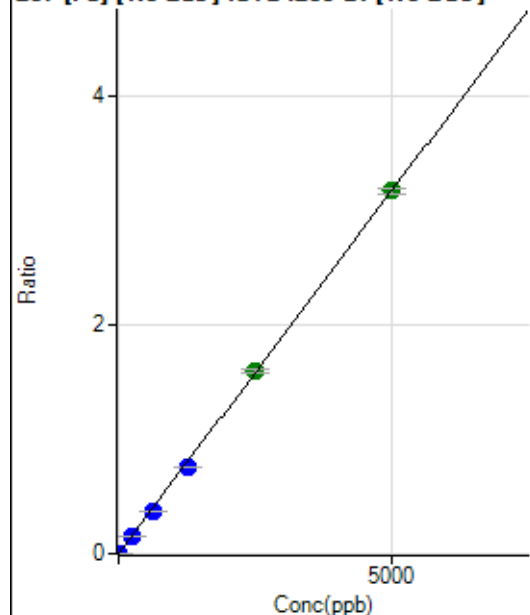
$$DL = 0.06752$$

$$BEC = 0.1452$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	161.11	0.0001	P	22.5
2	☐	1.000	0.973	1101.92	0.0007	P	7.8
3	☐	250.000	241.705	241163.24	0.1531	P	1.9
4	☐	625.000	582.727	590993.52	0.3688	P	2.3
5	☐	1250.000	1197.213	1201404.08	0.7577	P	1.2
6	☐	2500.000	2528.873	2497587.12	1.6003	A	2.2
7	☐	5000.000	5004.459	5029312.96	3.1668	A	1.8
8	☐			9783.48	0.0063	P	3.4

$$y = 6.3278E-004 * x + 1.0350E-004$$

$$R = 0.9999$$

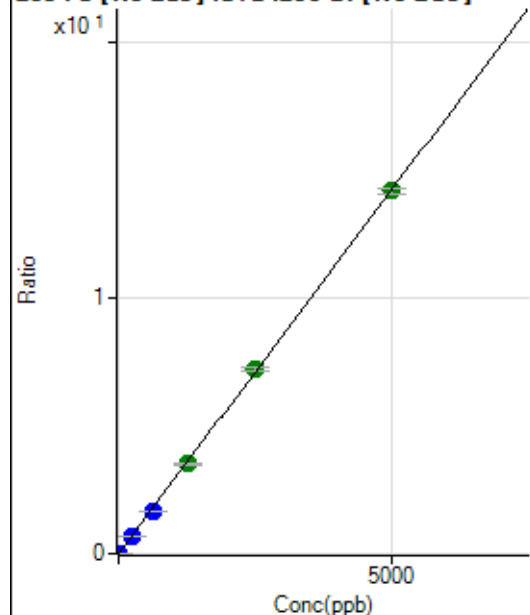
$$DL = 0.1102$$

$$BEC = 0.1636$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	675.95	0.0004	P	14.7
2	☐	1.000	0.980	4935.66	0.0032	P	3.3
3	☐	250.000	240.401	1078021.36	0.6842	P	2.4
4	☐	625.000	589.017	2685295.49	1.6757	P	1.8
5	☐	1250.000	1230.057	5548412.36	3.4990	A	0.8
6	☐	2500.000	2539.989	11275466.57	7.2247	A	2.3
7	☐	5000.000	4989.969	22540520.36	14.1930	A	1.6
8	☐			44654.71	0.0286	P	4.7

$$y = 0.0028 * x + 4.3384E-004$$

$$R = 0.9999$$

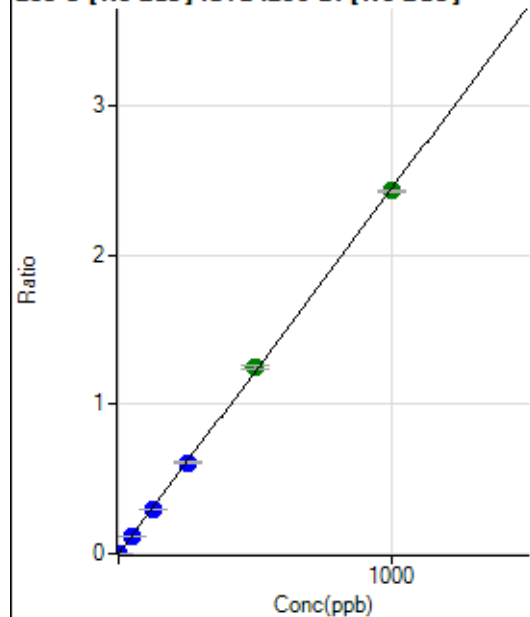
$$DL = 0.0673$$

$$BEC = 0.1525$$

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	5.55	0.0000	P	86.6
2	☐	1.000	1.003	3764.55	0.0025	P	2.9
3	☐	50.000	48.979	188722.07	0.1198	P	2.5
4	☐	125.000	120.851	473574.74	0.2955	P	1.3
5	☐	250.000	249.295	966616.50	0.6096	P	1.0
6	☐	500.000	512.357	1955326.15	1.2528	A	2.0
7	☐	1000.000	994.567	3862058.51	2.4319	A	0.5
8	☐			650.03	0.0004	P	18.5

$$y = 0.0024 * x + 3.5084E-006$$

$$R = 0.9999$$

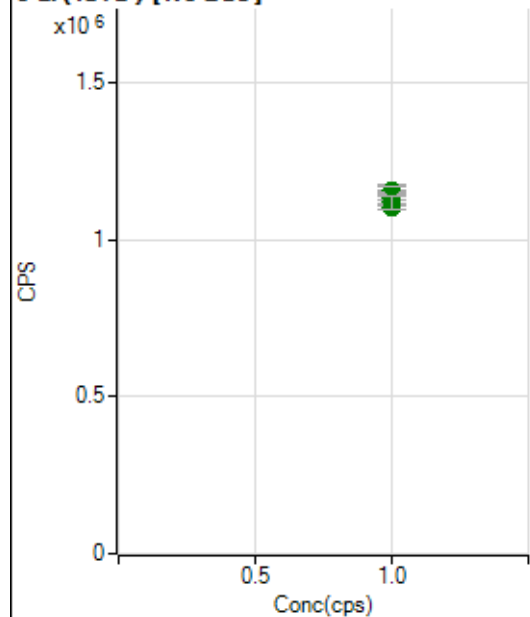
$$DL = 0.003728$$

$$BEC = 0.001435$$

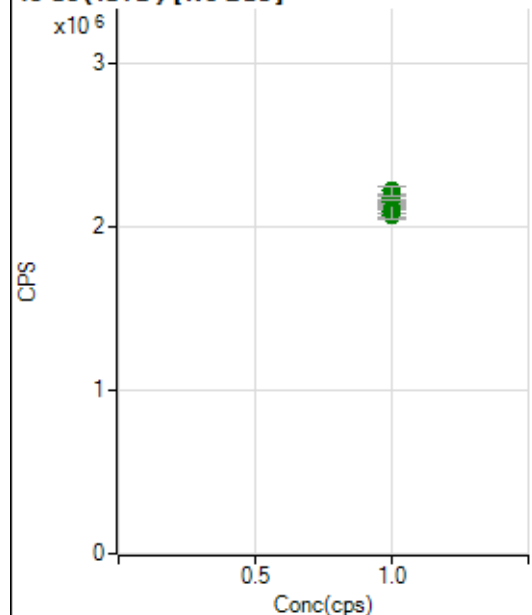
Weight: <None>

Min Conc: 0

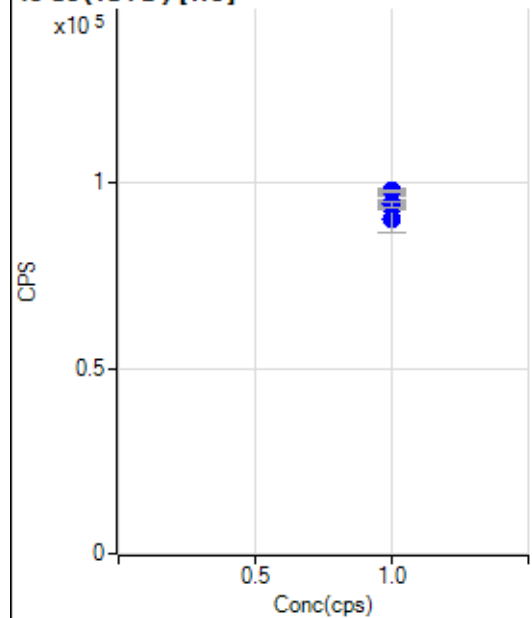
6 Li (ISTD) [No Gas]



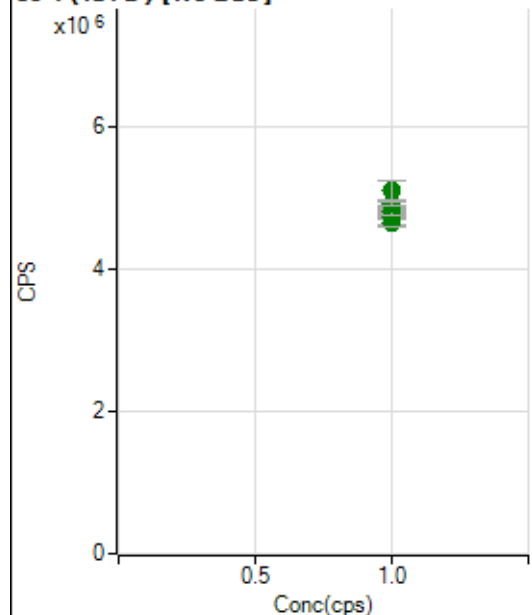
	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	1.000		1106090.79		A	1.7
2	☐	1.000		1103965.88		A	1.4
3	☐	1.000		1154290.61		A	4.1
4	☐	1.000		1152356.21		A	1.6
5	☐	1.000		1156402.14		A	2.3
6	☐	1.000		1140503.21		A	2.2
7	☐	1.000		1136784.54		A	2.0
8	☐	1.000		1119009.48		A	3.5

45 Sc (ISTD) [No Gas]

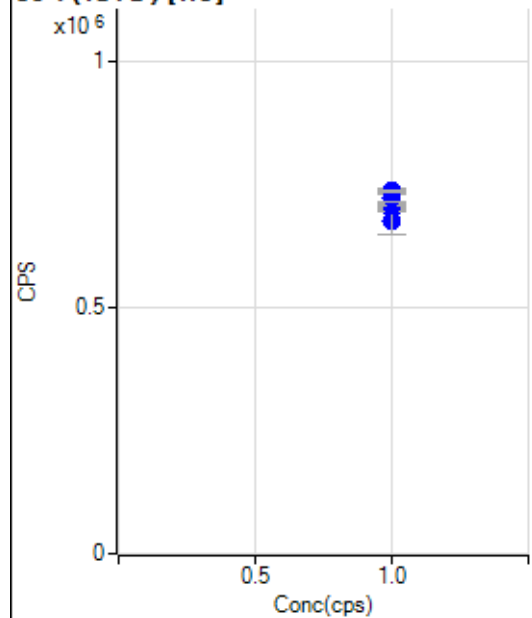
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2088902.99		A	2.8
2	☐	1.000		2069787.69		A	1.4
3	☐	1.000		2126020.11		A	2.5
4	☐	1.000		2118198.09		A	0.8
5	☐	1.000		2157528.02		A	3.9
6	☐	1.000		2092191.77		A	4.4
7	☐	1.000		2174266.77		A	0.8
8	☐	1.000		2218443.35		A	3.0

45 Sc (ISTD) [He]

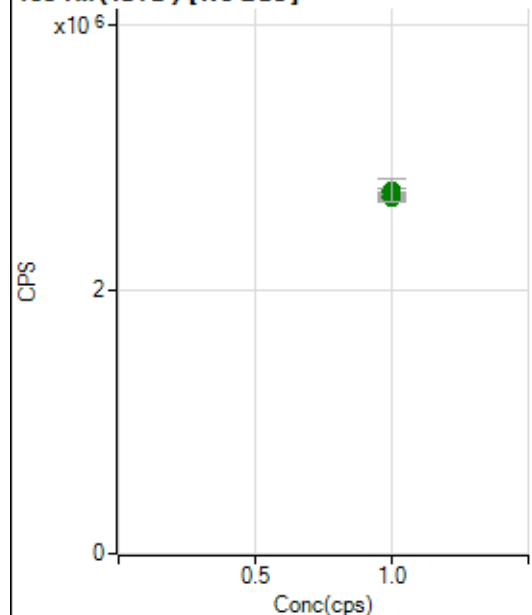
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		94567.64		P	0.7
2	☐	1.000		93278.42		P	0.9
3	☐	1.000		90245.07		P	8.0
4	☐	1.000		94330.57		P	2.2
5	☐	1.000		94088.13		P	1.7
6	☐	1.000		97330.43		P	2.4
7	☐	1.000		97774.90		P	1.5
8	☐	1.000		97721.80		P	0.8

89 Y (ISTD) [No Gas]

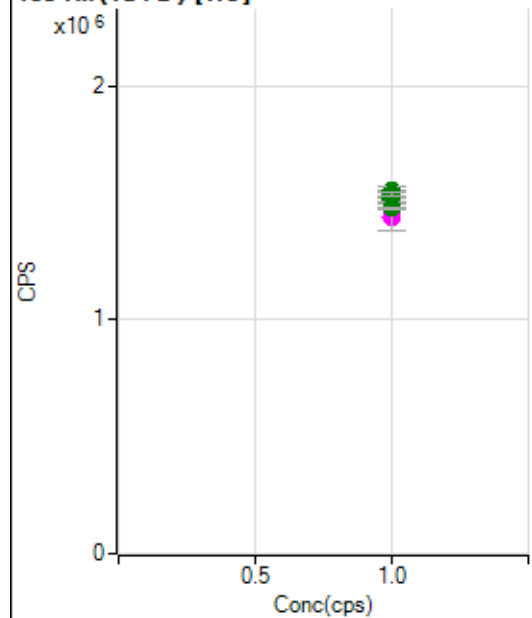
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4713281.70		A	3.3
2	☐	1.000		4658628.30		A	2.7
3	☐	1.000		4740490.52		A	1.8
4	☐	1.000		4767666.53		A	0.2
5	☐	1.000		4820987.70		A	0.7
6	☐	1.000		4807632.74		A	2.2
7	☐	1.000		4917126.00		A	1.4
8	☐	1.000		5102982.80		A	5.3

89 Y (ISTD) [He]

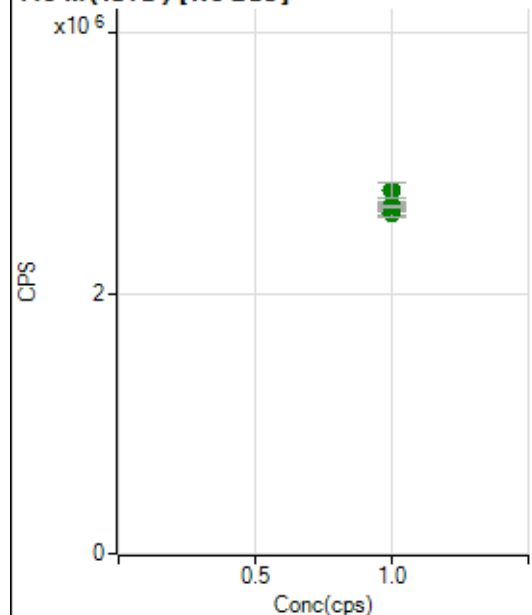
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		707984.55		P	0.7
2	☐	1.000		698426.98		P	0.8
3	☐	1.000		675261.04		P	7.8
4	☐	1.000		706564.16		P	2.0
5	☐	1.000		709824.46		P	0.5
6	☐	1.000		722827.09		P	2.0
7	☐	1.000		738195.64		P	1.2
8	☐	1.000		737243.46		P	0.6

103 Rh (ISTD) [No Gas]

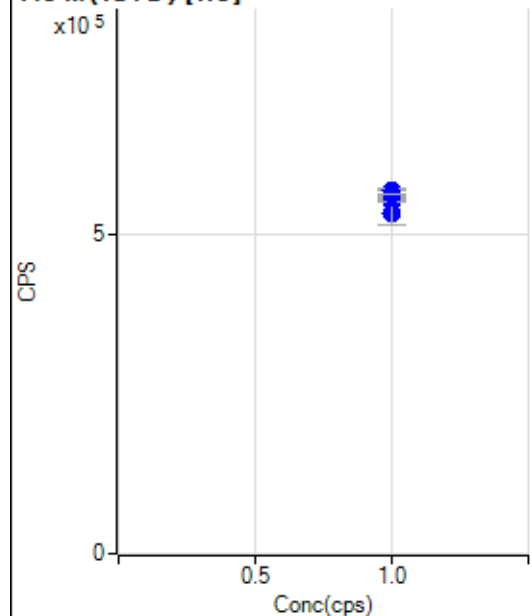
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2729966.12		A	2.1
2	☐	1.000		2707458.91		A	2.3
3	☐	1.000		2733948.41		A	2.9
4	☐	1.000		2716524.54		A	0.9
5	☐	1.000		2694901.67		A	1.7
6	☐	1.000		2704823.09		A	2.8
7	☐	1.000		2743419.11		A	1.5
8	☐	1.000		2746728.12		A	6.3

103 Rh (ISTD) [He]

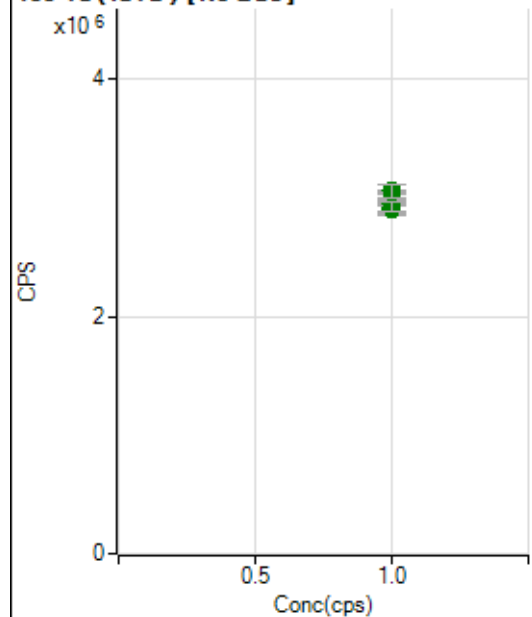
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1551837.44		A	0.6
2	☐	1.000		1526594.67		A	0.7
3	☐	1.000		1438877.71		M	7.8
4	☐	1.000		1514949.79		A	2.6
5	☐	1.000		1520479.81		A	1.6
6	☐	1.000		1552719.07		A	2.8
7	☐	1.000		1539520.76		A	0.7
8	☐	1.000		1480640.24		A	0.6

115 In (ISTD) [No Gas]

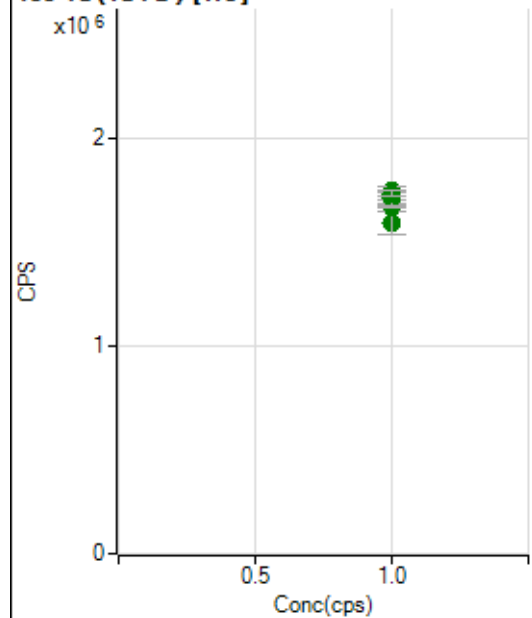
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2631691.40		A	3.9
2	☐	1.000		2626704.93		A	3.0
3	☐	1.000		2634774.09		A	2.4
4	☐	1.000		2638606.40		A	0.5
5	☐	1.000		2675911.74		A	1.6
6	☐	1.000		2620748.50		A	2.5
7	☐	1.000		2667781.35		A	0.8
8	☐	1.000		2785763.08		A	4.2

115 In (ISTD) [He]

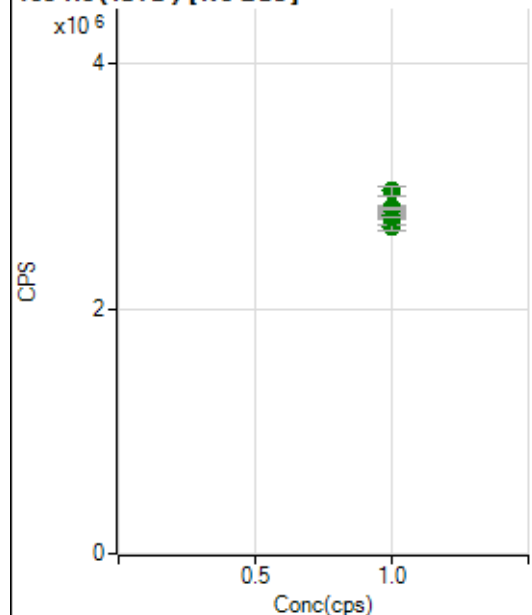
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		556544.43		P	1.0
2	☐	1.000		551338.65		P	0.7
3	☐	1.000		533109.81		P	7.8
4	☐	1.000		554831.58		P	1.8
5	☐	1.000		556248.05		P	1.9
6	☐	1.000		562533.31		P	2.3
7	☐	1.000		566907.14		P	1.3
8	☐	1.000		562578.60		P	0.2

159 Tb (ISTD) [No Gas]

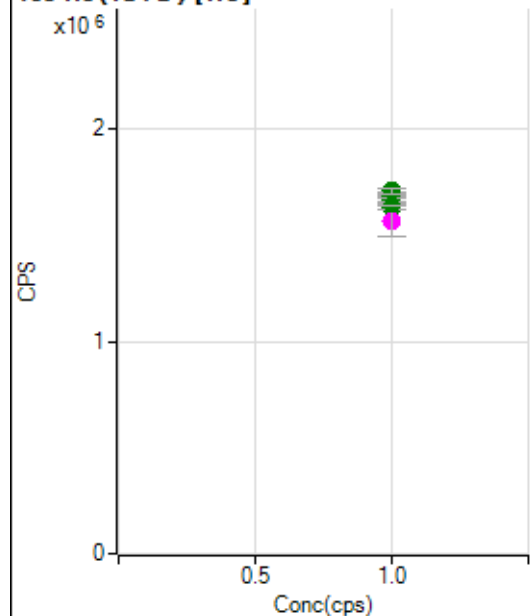
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2910605.41		A	3.3
2	☐	1.000		2896655.48		A	2.2
3	☐	1.000		2957858.60		A	1.5
4	☐	1.000		2966513.91		A	1.6
5	☐	1.000		3006405.27		A	1.9
6	☐	1.000		2925268.53		A	2.4
7	☐	1.000		3060585.16		A	0.5
8	☐	1.000		3059400.44		A	3.8

159 Tb (ISTD) [He]

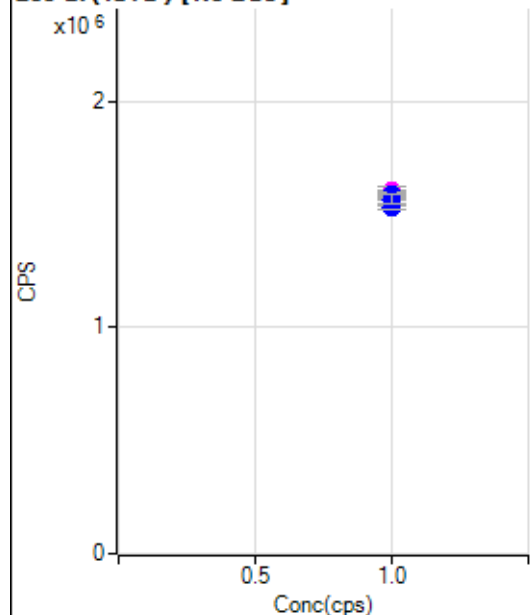
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1677904.68		A	3.2
2	☐	1.000		1670417.61		A	2.2
3	☐	1.000		1593051.61		A	6.7
4	☐	1.000		1665817.09		A	2.2
5	☐	1.000		1675774.04		A	0.8
6	☐	1.000		1709293.31		A	3.6
7	☐	1.000		1747371.07		A	2.5
8	☐	1.000		1733900.65		A	1.6

165 Ho (ISTD) [No Gas]

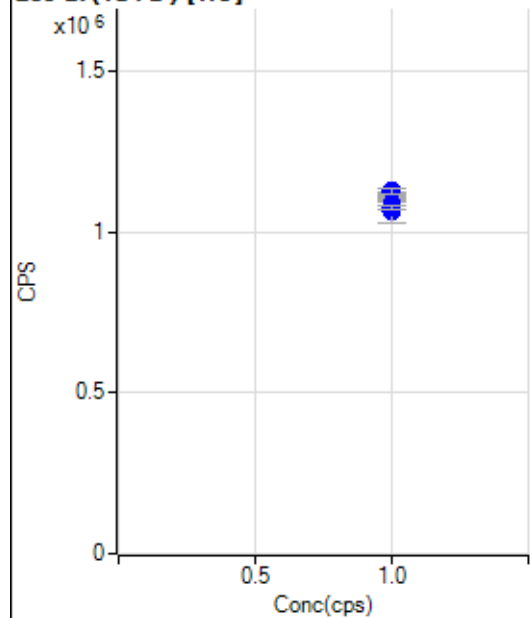
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2747213.02		A	1.5
2	☐	1.000		2669941.90		A	1.8
3	☐	1.000		2764213.26		A	1.1
4	☐	1.000		2754834.98		A	0.9
5	☐	1.000		2816067.27		A	1.8
6	☐	1.000		2765529.97		A	1.5
7	☐	1.000		2825008.70		A	0.7
8	☐	1.000		2963983.42		A	2.6

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1650353.88		A	1.4
2	☐	1.000		1631276.66		A	1.3
3	☐	1.000		1567950.24		M	9.0
4	☐	1.000		1653380.81		A	0.4
5	☐	1.000		1664892.54		A	2.9
6	☐	1.000		1681687.54		A	2.6
7	☐	1.000		1689053.97		A	1.4
8	☐	1.000		1709757.09		A	1.3

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1560593.00		P	2.5
2	☐	1.000		1532455.36		P	2.0
3	☐	1.000		1575859.54		P	1.2
4	☐	1.000		1602829.46		M	2.6
5	☐	1.000		1585878.53		P	2.0
6	☐	1.000		1561221.09		P	2.4
7	☐	1.000		1588023.74		P	0.7
8	☐	1.000		1563607.18		P	2.7

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1110395.84		P	1.4
2	☐	1.000		1095834.60		P	1.0
3	☐	1.000		1065144.47		P	7.1
4	☐	1.000		1104322.16		P	1.2
5	☐	1.000		1112857.49		P	1.9
6	☐	1.000		1123342.69		P	2.1
7	☐	1.000		1126980.39		P	1.6
8	☐	1.000		1077287.75		P	1.0

US EPA Tune Check Report

Operator Name Jaswal
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\P8050821AMS.b
Acq. Date-Time 2021-05-08 12:25:49
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		4568	45679.47			2.093	5.000
24		34382	343819.59			1.862	5.000
25		4637	46374.83			1.679	5.000
26		5295	52951.34			1.430	5.000
59		24242	242424.41			1.579	5.000
113		2969	29686.47			1.260	5.000
115		18264	182639.29			1.909	5.000
206		4587	45874.92			1.504	5.000
207		4013	40130.92			1.654	5.000
208		9725	97249.81			1.420	5.000
220		1	6.40			16.937	

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

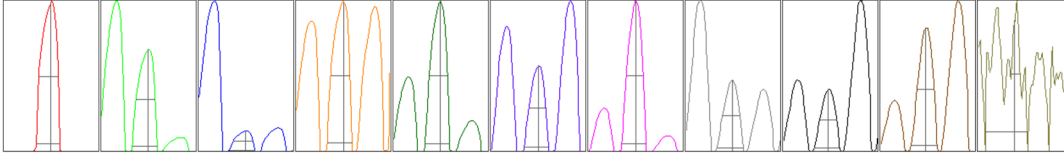
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	4563	4655	4663	4434	4525
24	34328	34622	35313	33614	34032
25	4597	4687	4740	4541	4623
26	5305	5371	5351	5180	5269
59	24153	24494	24733	23740	24093
113	2947	2982	3024	2925	2965
115	18150	18643	18619	17879	18030
206	4524	4641	4671	4516	4586
207	3942	4104	4057	3966	3997
208	9577	9905	9785	9594	9764

US EPA Tune Check Report

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

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	7940.45	9.00	8.90 - 9.10	
24	59524.09	24.00	23.90 - 24.10	
25	7905.19	25.00	24.90 - 25.10	
26	9053.15	26.05	25.90 - 26.10	
59	44359.99	59.00	58.90 - 59.10	
113	5797.60	113.05	112.90 - 113.10	
115	35781.12	115.05	114.90 - 115.10	
206	8639.90	206.00	205.90 - 206.10	
207	7488.15	206.95	206.90 - 207.10	
208	18341.33	207.95	207.90 - 208.10	
220	1.00	219.70	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.62	0.743	0.900	
24	0.61	0.786	0.900	
25	0.62	0.792	0.900	
26	0.62	0.785	0.900	
59	0.57	0.779	0.900	
113	0.52	0.772	0.900	
115	0.53	0.771	0.900	
206	0.54	0.831	0.900	
207	0.54	0.795	0.900	
208	0.54	0.814	0.900	
220	0.29	1.322		

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode HMI Nebulizer Gas 0.49 L/min Dilution Gas 0.44 L/min

US EPA Tune Check Report

RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.40 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	10.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	-6.0 V	Omega Lens	10.7 V	Deflect	15.0 V
Extract 2	-250.0 V	Cell Entrance	-30 V	Plate Bias	-50 V
Omega Bias	-120 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	4.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	---	OctP RF	150 V		

QP Parameters

Mass Gain	122	Axis Gain	0.9989	QP Bias	-4.0 V
Mass Offset	125	Axis Offset	0.02		

Hardware Settings

Torch

Torch H	0.6 mm	Torch V	-0.8 mm
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EM

Discriminator	4.1 mV	Analog HV	2192 V	Pulse HV	1460 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		6532	65317.55			2.251	
89		10842	108422.55			2.527	
205		6820	68203.90			2.338	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	6509	6466	6360	6567	6757
89	10866	10677	10520	10899	11249
205	6869	6677	6628	6953	6975

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	HMI	Nebulizer Gas	0.49 L/min	Dilution Gas	0.44 L/min
RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.40 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	10.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	-6.0 V	Omega Lens	10.7 V	Deflect	3.8 V
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US EPA Tune Check Report

Extract 2	-250.0 V	Cell Entrance	-50 V	Plate Bias	-60 V
Omega Bias	-120 V	Cell Exit	-70 V		
Cell Parameters					
Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	4.5 mL/min	OctP Bias	-18.0 V		
H2 Flow	---	OctP RF	200 V		
QP Parameters					
Mass Gain	122	Axis Gain	0.9989	QP Bias	-13.0 V
Mass Offset	125	Axis Offset	0.02		
Hardware Settings					
Torch					
Torch H	0.6 mm	Torch V	-0.8 mm		
EM					
Discriminator	4.1 mV	Analog HV	2192 V	Pulse HV	1460 V