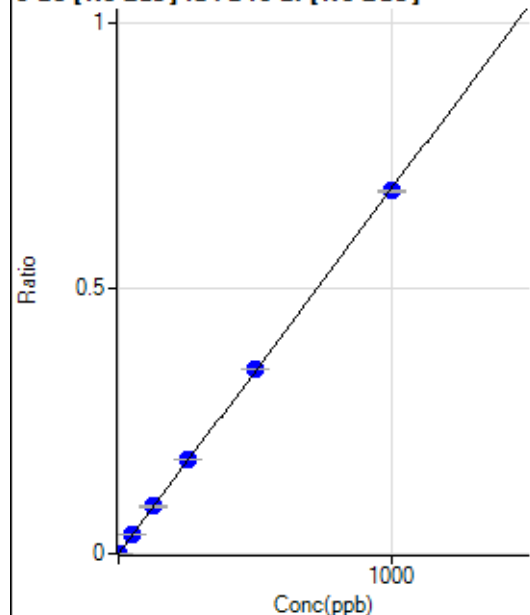


Batch Folder: C:\Agilent\ICPMH\1\DATA\P7080621MS.b\
Analysis File: P7080621MS.batch.bin
DA Date-Time: 2021-08-06 08:17:48
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	003CALB.d	S00	2021-08-06 07:49:03
2	005CALS.d	S02	2021-08-06 07:55:11
3	007CALS.d	S03	2021-08-06 08:01:19
4	008CALS.d	S04	2021-08-06 08:04:22
5	009CALS.d	S05	2021-08-06 08:07:23
6	010CALS.d	S06	2021-08-06 08:10:20
7	011CALS.d	S07	2021-08-06 08:13:14
8	012CALS.d	S08	2021-08-06 08:16:09

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	50.00	0.0000	P	48.5
2	☐	1.000	1.092	2066.85	0.0008	P	6.3
3	☐	50.000	52.141	94787.76	0.0358	P	1.5
4	☐	125.000	129.313	231171.16	0.0888	P	0.8
5	☐	250.000	257.740	443205.39	0.1770	P	0.2
6	☐	500.000	506.298	819469.89	0.3476	P	0.8
7	☐	1000.000	994.270	1524901.79	0.6827	P	0.7
8	☐			255.56	0.0001	P	11.8

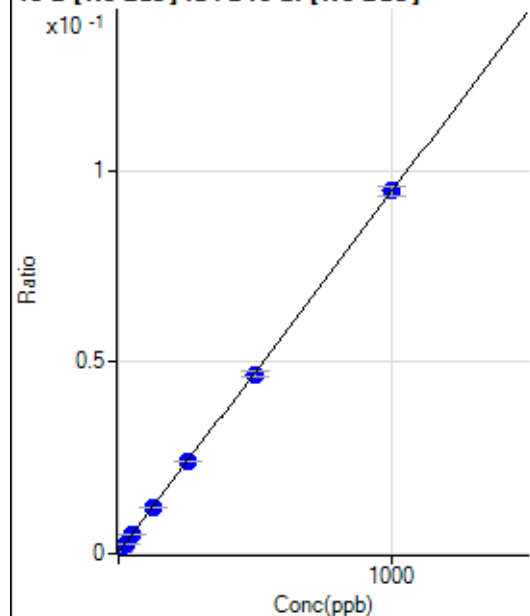
$$y = 6.8661\text{E-}004 * x + 1.8798\text{E-}005$$

$$R = 0.9999$$

$$DL = 0.03985$$

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	797.26	0.0003	P	13.7
2	☐	25.000	24.633	7049.06	0.0026	P	4.7
3	☐	50.000	49.106	13039.21	0.0049	P	3.3
4	☐	125.000	123.527	31085.20	0.0119	P	1.1
5	☐	250.000	252.574	60353.91	0.0241	P	1.9
6	☐	500.000	494.466	110553.83	0.0469	P	3.1
7	☐	1000.000	1002.362	211677.42	0.0948	P	2.4
8	☐			7560.40	0.0035	P	6.1

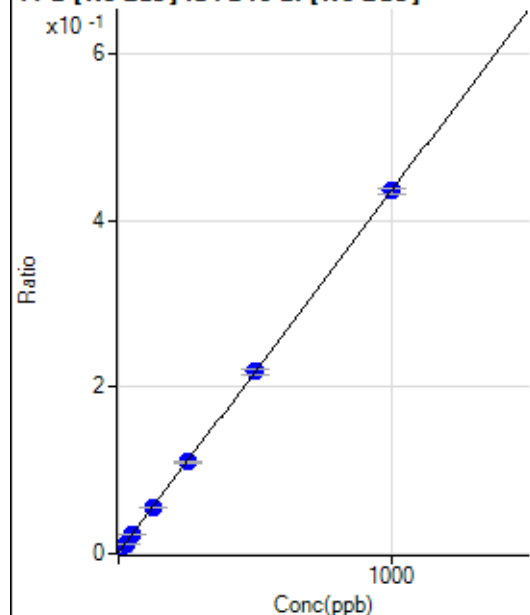
$$y = 9.4243\text{E-}005 * x + 2.9960\text{E-}004$$

$$R = 1.0000$$

$$DL = 1.308$$

Weight: <None>

Min Conc: 0

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

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	3681.11	0.0014	P	6.1
2	☐	25.000	24.049	31769.97	0.0118	P	2.7
3	☐	50.000	49.450	60415.24	0.0228	P	4.0
4	☐	125.000	124.307	143953.90	0.0553	P	3.1
5	☐	250.000	249.947	274903.42	0.1098	P	1.7
6	☐	500.000	500.649	515044.06	0.2185	P	2.7
7	☐	1000.000	999.827	971662.02	0.4350	P	1.8
8	☐			35425.49	0.0164	P	8.9

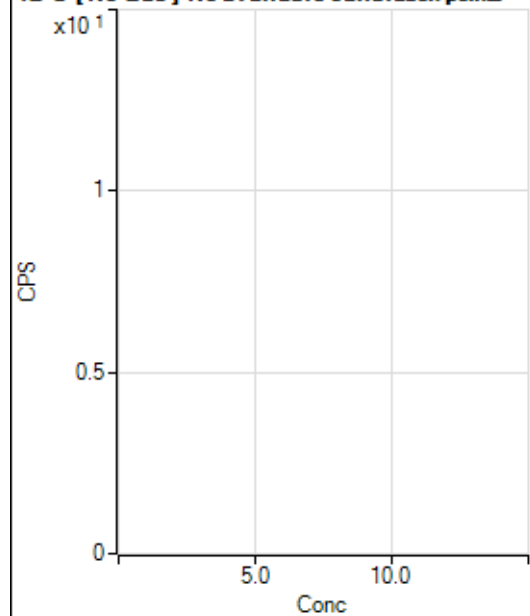
$$y = 4.3370\text{E-}004 * x + 0.0014$$

$$R = 1.0000$$

$$DL = 0.5794$$

Weight: <None>

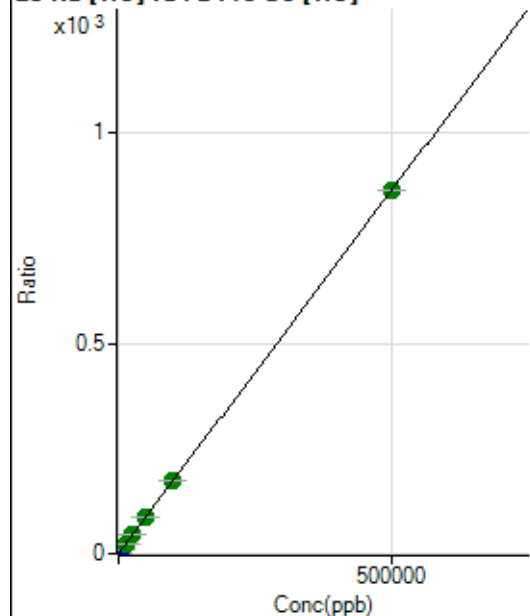
Min Conc: 0

12 C [No Gas] No available calibration points

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐						
2	☐						
3	☐						
4	☐						
5	☐						
6	☐						
7	☐						
8	☐						

12 C [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐						
2	☐						
3	☐						
4	☐						
5	☐						
6	☐						
7	☐						
8	☐						

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	12847.44	0.0353	P	3.2
2	☐	500.000	508.745	337300.81	0.9134	P	0.4
3	☐	5000.000	5192.093	3204498.85	8.9971	P	1.5
4	☐	12500.000	12941.654	7704181.16	22.3732	A	0.9
5	☐	25000.000	26002.875	14671727.06	44.9175	A	1.6
6	☐	50000.000	51440.093	27321446.44	88.8234	A	0.7
7	☐	100000.00	101280.02	52367834.50	174.8495	A	0.5
8	☐	500000.00	499536.87	265985255.9	862.2602	A	0.1

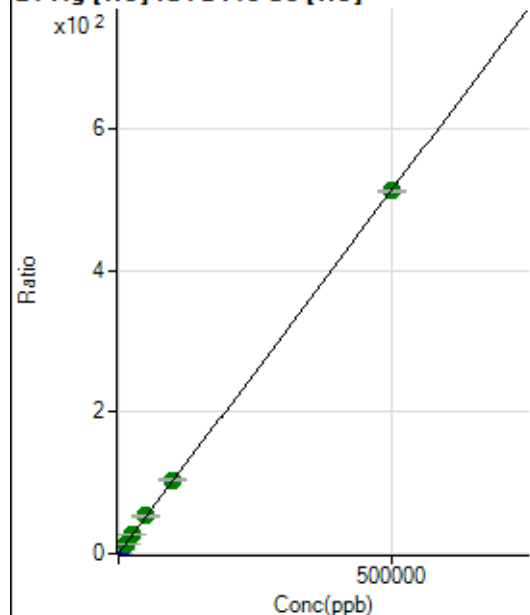
$$y = 0.0017 * x + 0.0353$$

$$R = 1.0000$$

$$DL = 1.939$$

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	280.57	0.0008	P	28.9
2	☐	500.000	505.618	191659.63	0.5190	P	0.4
3	☐	5000.000	5242.780	1914116.25	5.3741	P	1.4
4	☐	12500.000	13150.139	4641263.39	13.4783	A	0.8
5	☐	25000.000	26152.494	8755602.28	26.8045	A	1.7
6	☐	50000.000	51753.279	16315752.27	53.0427	A	0.5
7	☐	100000.00	101750.67	31233288.55	104.2851	A	0.5
8	☐	500000.00	499398.22	157886828.5	511.8341	A	0.3

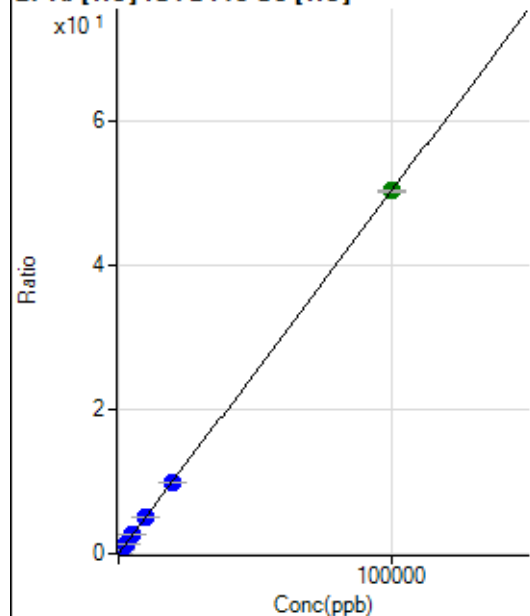
$$y = 0.0010 * x + 7.6957E-004$$

$$R = 1.0000$$

$$DL = 0.6517$$

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	238.90	0.0007	P	22.9
2	☐	20.000	20.692	4095.12	0.0111	P	7.8
3	☐	1000.000	1013.598	182202.10	0.5116	P	2.3
4	☐	2500.000	2561.392	444815.52	1.2918	P	0.7
5	☐	5000.000	5134.259	845591.73	2.5887	P	1.3
6	☐	10000.000	10159.883	1575494.64	5.1220	P	0.5
7	☐	20000.000	19844.631	2996163.48	10.0038	P	0.2
8	☐	100000.00	100006.70	15550872.57	50.4116	A	0.4

$$y = 5.0408E-004 * x + 6.5514E-004$$

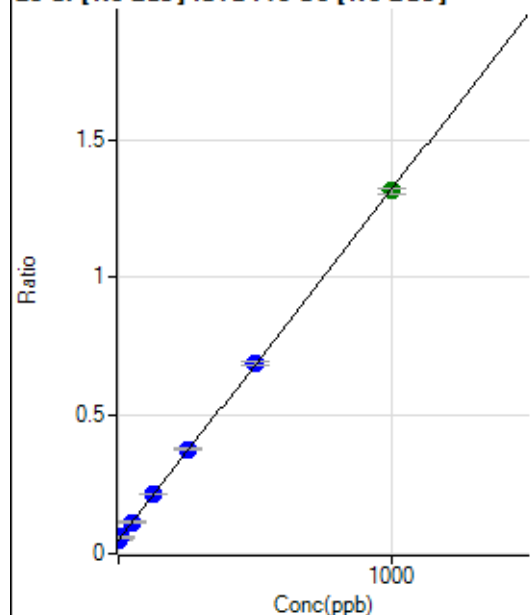
$$R = 1.0000$$

$$DL = 0.8931$$

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	225393.49	0.0498	P	1.6
2	☐	10.000	7.428	268702.07	0.0593	P	1.3
3	☐	50.000	50.792	511094.82	0.1143	P	2.4
4	☐	125.000	130.568	929326.43	0.2156	P	2.5
5	☐	250.000	257.578	1548811.55	0.3768	P	1.9
6	☐	500.000	503.128	2639773.15	0.6884	P	2.0
7	☐	1000.000	995.832	4794216.56	1.3138	A	1.6
8	☐			445493.29	0.1230	P	2.7

$$y = 0.0013 * x + 0.0498$$

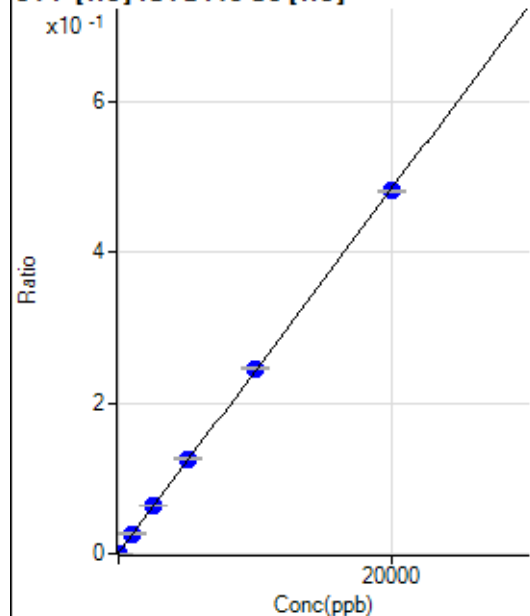
$$R = 0.9999$$

$$DL = 1.853$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	-2.075	333.35	0.0009	P	17.9
2	☐	0.000	2.075	375.02	0.0010	P	19.2
3	☐	1000.000	1062.218	9469.90	0.0266	P	1.3
4	☐	2500.000	2586.067	21813.60	0.0633	P	1.1
5	☐	5000.000	5161.878	40992.94	0.1255	P	2.7
6	☐	10000.000	10113.152	75337.08	0.2449	P	1.0
7	☐	20000.000	19889.085	143984.99	0.4807	P	0.2
8	☐			388.91	0.0013	P	12.8

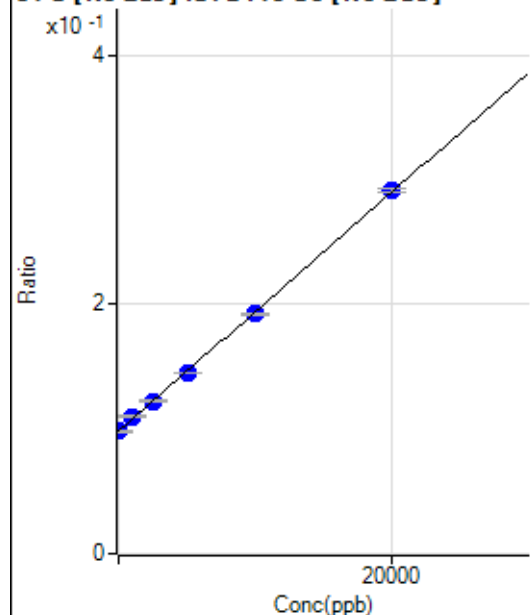
$$y = 2.4123E-005 * x + 9.6512E-004$$

$$R = 0.9999$$

$$DL = 22.26$$

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	16.683	445832.05	0.0986	P	0.1
2	☐	0.000	-16.683	445488.61	0.0983	P	1.3
3	☐	1000.000	1222.596	492462.15	0.1101	P	0.7
4	☐	2500.000	2506.080	527838.34	0.1224	P	0.8
5	☐	5000.000	4871.146	596449.23	0.1451	P	0.8
6	☐	10000.000	9833.718	738589.93	0.1926	P	0.9
7	☐	20000.000	20103.465	1061724.00	0.2910	P	1.1
8	☐			362840.30	0.1002	P	0.8

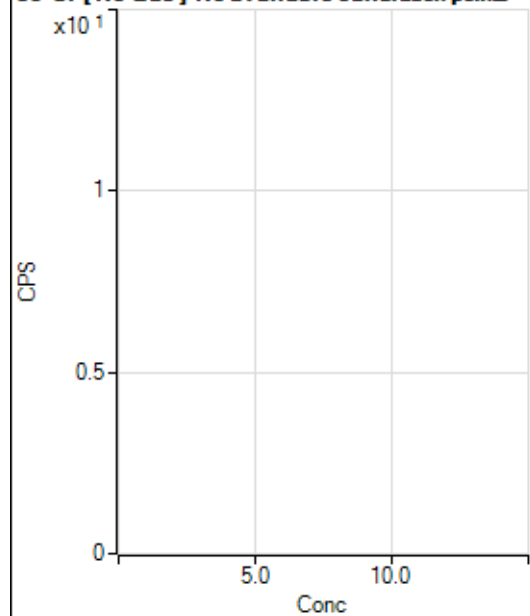
$$y = 9.5769\text{E-}006 * x + 0.0984$$

R = 0.9998

DL = 218.4

Weight: <None>

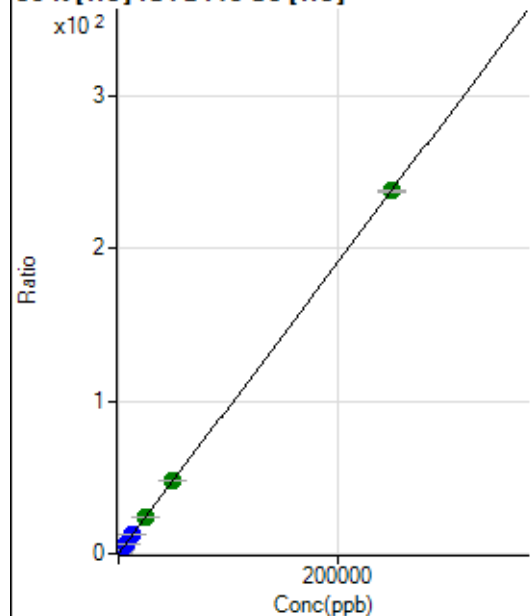
Min Conc: 0

35 Cl [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐						
2	☐						
3	☐						
4	☐						
5	☐						
6	☐						
7	☐						
8	☐						

35 Cl [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐						
2	☐						
3	☐						
4	☐						
5	☐						
6	☐						
7	☐						
8	☐						

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	48376.97	0.1328	P	3.9
2	☐	500.000	523.581	232567.33	0.6297	P	0.7
3	☐	2500.000	2719.098	966549.61	2.7138	P	1.4
4	☐	6250.000	6841.555	2281976.83	6.6268	P	0.8
5	☐	12500.000	13564.268	4249092.71	13.0081	P	0.8
6	☐	25000.000	25153.930	7385235.41	24.0092	A	0.1
7	☐	50000.000	49773.181	14189890.25	47.3780	A	0.7
8	☐	250000.00	249959.73	73230923.86	237.3974	A	0.2

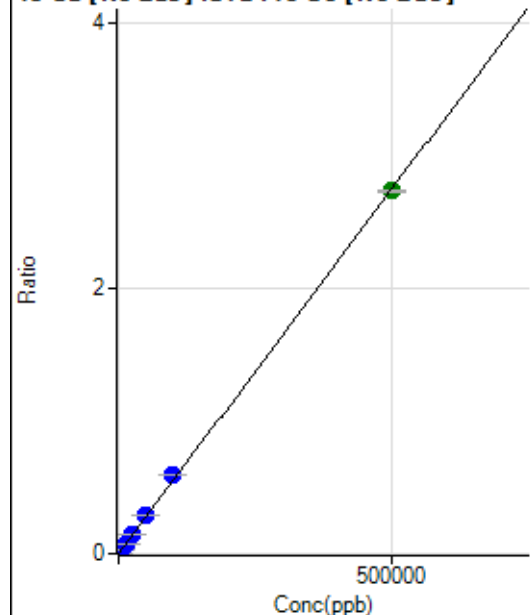
$$y = 9.4921\text{E-}004 * x + 0.1328$$

$$R = 1.0000$$

$$DL = 16.22$$

Weight: <None>

Min Conc: 0

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

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	130.56	0.0000	P	18.6
2	☐	500.000	529.849	13339.66	0.0029	P	3.4
3	☐	5000.000	5363.664	131994.70	0.0295	P	1.8
4	☐	12500.000	13675.077	324314.22	0.0752	P	0.4
5	☐	25000.000	27092.154	612566.07	0.1490	P	0.6
6	☐	50000.000	53826.133	1135080.07	0.2960	P	0.7
7	☐	100000.00	107404.43	2155279.52	0.5906	P	0.8
8	☐	500000.00	497998.84	9914207.25	2.7385	A	0.6

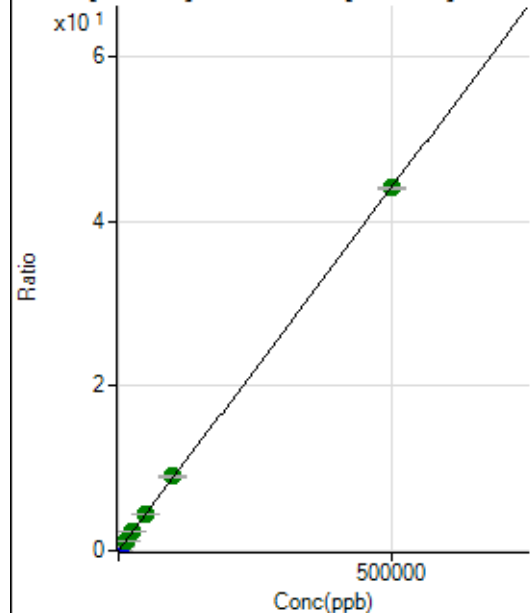
$$y = 5.4990\text{E-}006 * x + 2.8881\text{E-}005$$

$$R = 0.9999$$

$$DL = 2.936$$

Weight: <None>

Min Conc: 0

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

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	7062.95	0.0016	P	1.1
2	☐	500.000	519.027	214929.23	0.0474	P	1.5
3	☐	5000.000	5307.856	2103435.01	0.4705	P	0.7
4	☐	12500.000	12785.283	4875998.89	1.1311	A	0.6
5	☐	25000.000	25306.169	9197277.37	2.2372	A	1.0
6	☐	50000.000	50452.507	17096783.72	4.4587	A	0.4
7	☐	100000.00	102026.58	32896049.00	9.0149	A	1.1
8	☐	500000.00	499523.89	159771527.1	44.1309	A	0.3

$$y = 8.8343\text{E-}005 * x + 0.0016$$

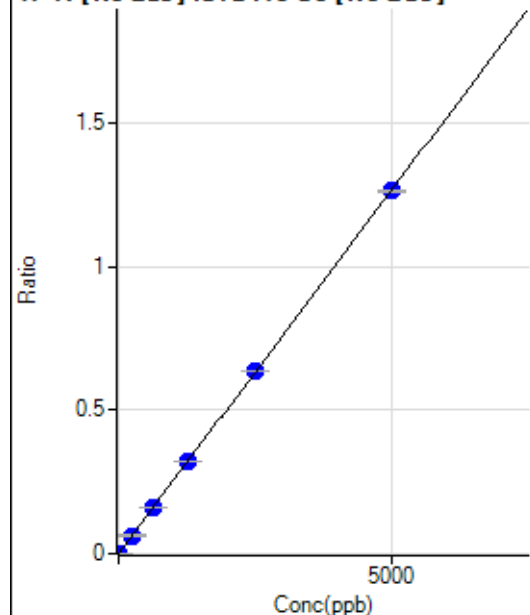
$$R = 1.0000$$

$$DL = 0.5738$$

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	69.45	0.0000	P	18.6
2	☐	5.000	5.067	5884.64	0.0013	P	4.7
3	☐	250.000	251.222	284458.81	0.0636	P	1.1
4	☐	625.000	633.998	692117.18	0.1605	P	0.2
5	☐	1250.000	1259.884	1311487.92	0.3190	P	0.3
6	☐	2500.000	2507.148	2434256.59	0.6348	P	0.1
7	☐	5000.000	4992.769	4613092.77	1.2642	P	0.6
8	☐			894.49	0.0002	P	7.8

$$y = 2.5320\text{E-}004 * x + 1.5365\text{E-}005$$

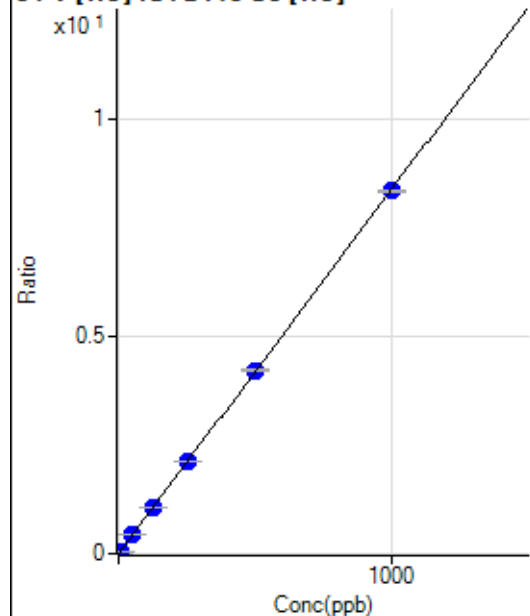
$$R = 1.0000$$

$$DL = 0.03392$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	7.78	0.0000	P	24.5
2	☐	5.000	5.087	15751.80	0.0427	P	1.7
3	☐	50.000	50.714	151378.60	0.4250	P	1.2
4	☐	125.000	128.055	369541.60	1.0731	P	0.9
5	☐	250.000	254.622	697012.58	2.1338	P	0.4
6	☐	500.000	504.223	1299739.64	4.2255	P	0.4
7	☐	1000.000	996.315	2500649.83	8.3493	P	0.2
8	☐			407.79	0.0013	P	4.9

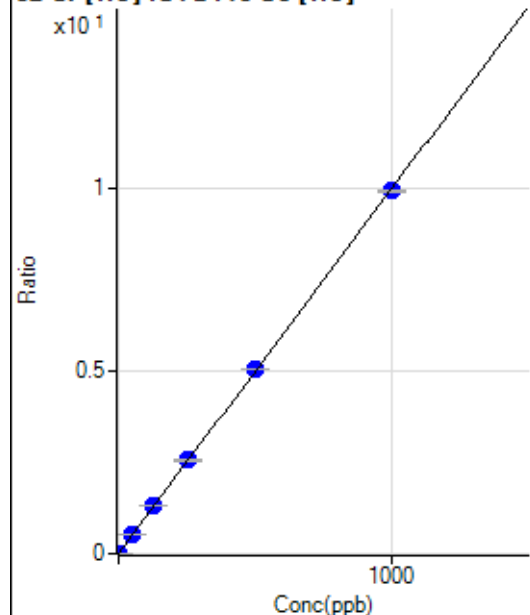
$$y = 0.0084 * x + 2.1342\text{E-}005$$

$$R = 1.0000$$

$$DL = 0.001872$$

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	1662.33	0.0046	P	3.0
2	☐	2.000	2.043	9217.41	0.0250	P	4.0
3	☐	50.000	51.305	184088.66	0.5169	P	1.5
4	☐	125.000	129.347	446327.49	1.2961	P	0.7
5	☐	250.000	256.281	837390.26	2.5636	P	0.8
6	☐	500.000	505.933	1555349.42	5.0565	P	0.4
7	☐	1000.000	994.855	2976636.48	9.9386	P	0.3
8	☐			6693.79	0.0217	P	0.5

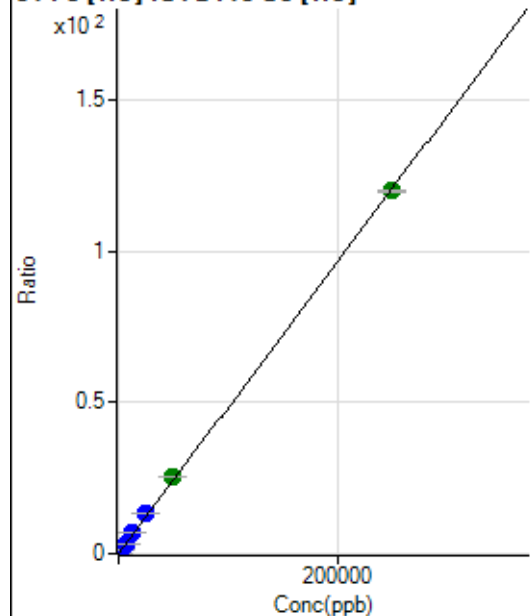
$$y = 0.0100 * x + 0.0046$$

$$R = 0.9999$$

$$DL = 0.04178$$

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	1268.03	0.0035	P	6.3
2	☐	50.000	56.689	11359.39	0.0308	P	3.6
3	☐	2500.000	2782.532	478108.61	1.3423	P	1.3
4	☐	6250.000	7009.835	1162681.00	3.3764	P	1.3
5	☐	12500.000	13947.940	2193296.73	6.7147	P	1.1
6	☐	25000.000	27439.845	4062252.00	13.2065	P	0.4
7	☐	50000.000	53016.807	7641194.26	25.5132	A	0.5
8	☐	250000.00	249058.43	36967741.02	119.8414	A	0.3

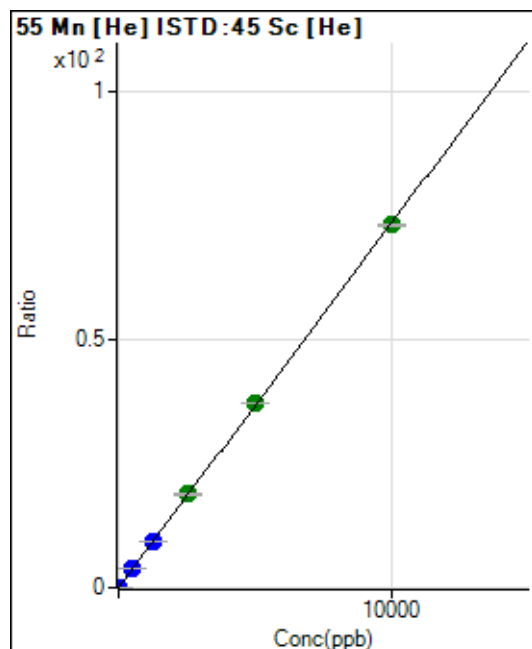
$$y = 4.8116E-004 * x + 0.0035$$

$$R = 0.9999$$

$$DL = 1.359$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	144.45	0.0004	P	7.8
2	☐	1.000	1.010	2889.20	0.0078	P	1.8
3	☐	500.000	505.664	1324855.57	3.7197	P	1.1
4	☐	1250.000	1271.514	3220654.81	9.3528	P	0.9
5	☐	2500.000	2562.676	6157238.38	18.8496	A	1.3
6	☐	5000.000	5060.292	11448842.05	37.2203	A	0.6
7	☐	10000.000	9951.213	21921514.39	73.1945	A	0.9
8	☐			11621.31	0.0377	P	2.1

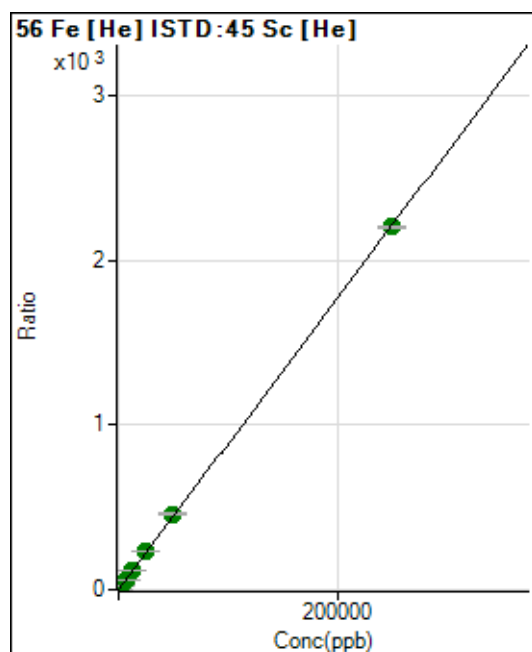
$$y = 0.0074 * x + 3.9631E-004$$

$$R = 0.9999$$

$$DL = 0.01261$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	6768.34	0.0186	P	3.8
2	☐	50.000	55.092	186527.64	0.5051	P	0.2
3	☐	2500.000	2638.140	8304326.69	23.3156	A	1.6
4	☐	6250.000	6708.861	20406833.56	59.2635	A	1.4
5	☐	12500.000	13389.444	38628634.19	118.2588	A	1.5
6	☐	25000.000	26580.667	72208407.17	234.7485	A	0.1
7	☐	50000.000	52044.463	137653162.3	459.6155	A	1.0
8	☐	250000.00	249375.71	679317622.5	2,202.218	A	0.5

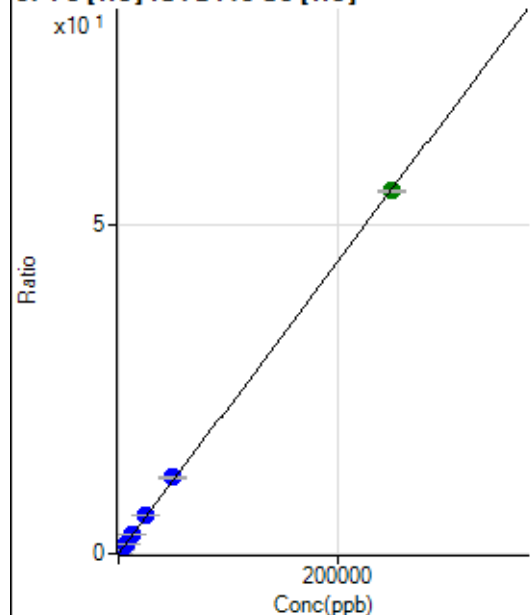
$$y = 0.0088 * x + 0.0186$$

$$R = 1.0000$$

$$DL = 0.2405$$

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	209.27	0.0006	P	15.7
2	☐	50.000	54.772	4691.56	0.0127	P	3.1
3	☐	2500.000	2667.583	210640.18	0.5914	P	0.9
4	☐	6250.000	6787.127	517840.52	1.5038	P	0.8
5	☐	12500.000	13487.582	975989.93	2.9879	P	1.1
6	☐	25000.000	26673.510	1817394.14	5.9084	P	0.4
7	☐	50000.000	52351.732	3472988.94	11.5958	P	0.6
8	☐	250000.00	249297.81	17032945.52	55.2167	A	0.6

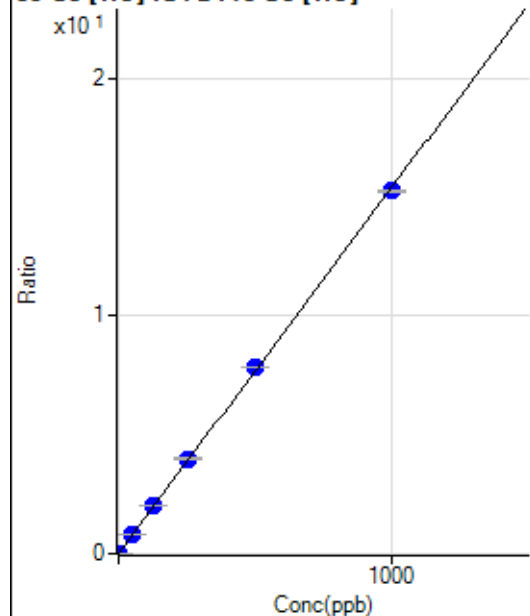
$$y = 2.2149E-004 * x + 5.7432E-004$$

$$R = 0.9999$$

$$DL = 1.219$$

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	52.22	0.0001	P	22.1
2	☐	1.000	1.040	5967.93	0.0162	P	0.8
3	☐	50.000	52.451	287785.92	0.8080	P	0.6
4	☐	125.000	131.353	696697.36	2.0232	P	0.7
5	☐	250.000	259.116	1303632.08	3.9910	P	1.0
6	☐	500.000	510.216	2417222.86	7.8585	P	0.5
7	☐	1000.000	991.696	4574658.61	15.2742	P	0.6
8	☐			6707.15	0.0217	P	4.0

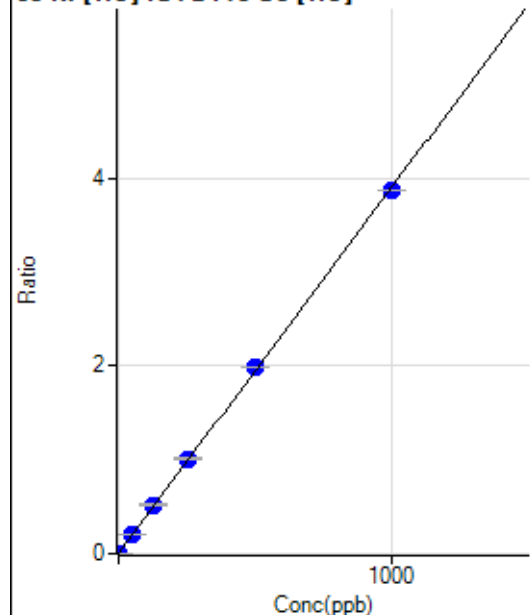
$$y = 0.0154 * x + 1.4322E-004$$

$$R = 0.9999$$

$$DL = 0.006168$$

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	685.58	0.0019	P	6.8
2	☐	1.000	1.080	2247.97	0.0061	P	5.3
3	☐	50.000	53.133	74348.06	0.2087	P	2.0
4	☐	125.000	133.410	179507.91	0.5213	P	0.5
5	☐	250.000	259.721	330923.05	1.0131	P	0.7
6	☐	500.000	509.896	611215.75	1.9871	P	0.8
7	☐	1000.000	991.414	1156641.67	3.8619	P	0.1
8	☐			2364.66	0.0077	P	4.9

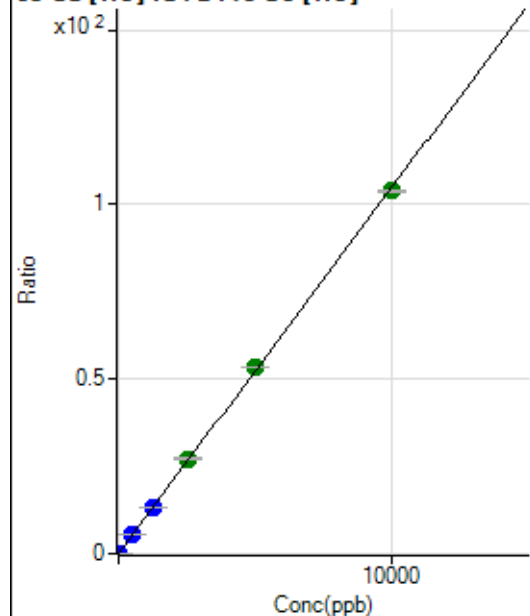
$$y = 0.0039 * x + 0.0019$$

$$R = 0.9999$$

$$DL = 0.09853$$

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	1867.92	0.0051	P	3.8
2	☐	2.000	1.953	9451.99	0.0256	P	1.4
3	☐	500.000	515.866	1927179.38	5.4108	P	1.1
4	☐	1250.000	1281.947	4627529.10	13.4385	P	0.8
5	☐	2500.000	2588.434	8861891.81	27.1291	A	1.0
6	☐	5000.000	5110.042	16472579.48	53.5528	A	0.4
7	☐	10000.000	9918.084	31129282.59	103.9359	A	0.3
8	☐			7992.26	0.0259	P	2.9

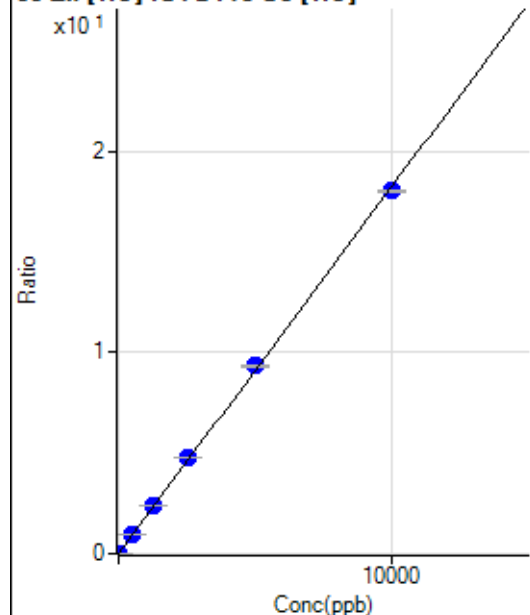
$$y = 0.0105 * x + 0.0051$$

$$R = 0.9999$$

$$DL = 0.05514$$

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	448.90	0.0012	P	8.3
2	☐	2.000	2.354	2037.94	0.0055	P	7.1
3	☐	500.000	526.104	341669.93	0.9593	P	0.7
4	☐	1250.000	1320.398	828392.08	2.4057	P	0.7
5	☐	2500.000	2616.988	1557078.41	4.7668	P	0.5
6	☐	5000.000	5132.184	2875014.30	9.3470	P	0.9
7	☐	10000.000	9894.556	5396811.10	18.0193	P	0.3
8	☐			6002.40	0.0195	P	2.3

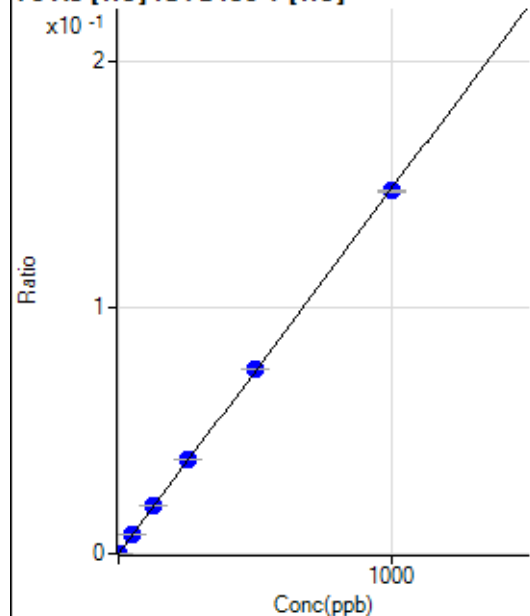
$$y = 0.0018 * x + 0.0012$$

$$R = 0.9998$$

$$DL = 0.1689$$

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	12.96	0.0000	P	61.9
2	☐	1.000	0.996	415.44	0.0002	P	3.7
3	☐	50.000	51.349	20273.98	0.0076	P	1.0
4	☐	125.000	130.026	49373.32	0.0192	P	0.9
5	☐	250.000	258.846	93630.87	0.0383	P	1.0
6	☐	500.000	505.692	174889.14	0.0748	P	0.2
7	☐	1000.000	994.247	334575.48	0.1471	P	0.2
8	☐			111.73	0.0000	P	17.3

$$y = 1.4799E-004 * x + 4.7911E-006$$

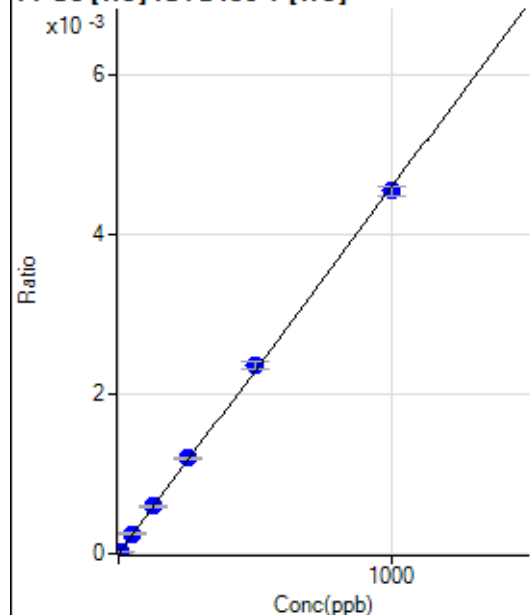
$$R = 0.9999$$

$$DL = 0.06014$$

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	1.11	0.0000	P	173.
2	☐	5.000	4.794	61.11	0.0000	P	8.8
3	☐	50.000	54.691	670.02	0.0003	P	2.8
4	☐	125.000	128.896	1517.88	0.0006	P	7.4
5	☐	250.000	260.672	2923.66	0.0012	P	1.1
6	☐	500.000	513.248	5502.20	0.0024	P	4.2
7	☐	1000.000	989.987	10327.09	0.0045	P	2.3
8	☐			1.11	0.0000	P	173.

$$y = 4.5874\text{E-}006 * x + 4.0930\text{E-}007$$

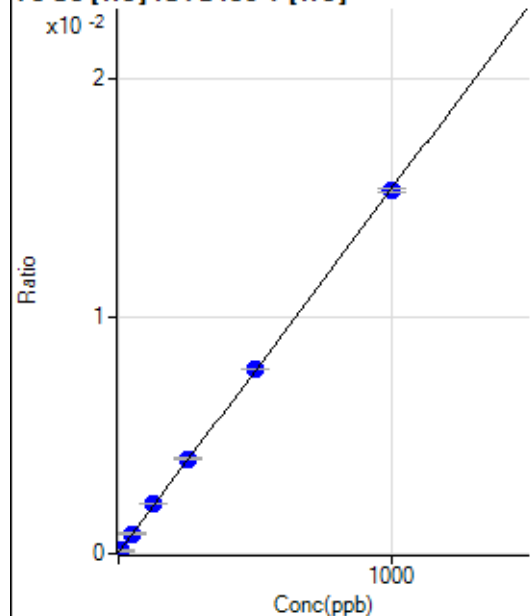
$$R = 0.9998$$

$$DL = 0.4636$$

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	120.99	0.0000	P	16.9
2	☐	5.000	5.018	332.11	0.0001	P	3.2
3	☐	50.000	52.393	2261.30	0.0008	P	5.3
4	☐	125.000	134.627	5410.29	0.0021	P	0.6
5	☐	250.000	257.835	9771.85	0.0040	P	0.9
6	☐	500.000	504.705	18189.18	0.0078	P	0.8
7	☐	1000.000	994.365	34771.69	0.0153	P	1.0
8	☐			111.73	0.0000	P	6.9

$$y = 1.5334\text{E-}005 * x + 4.4763\text{E-}005$$

$$R = 0.9999$$

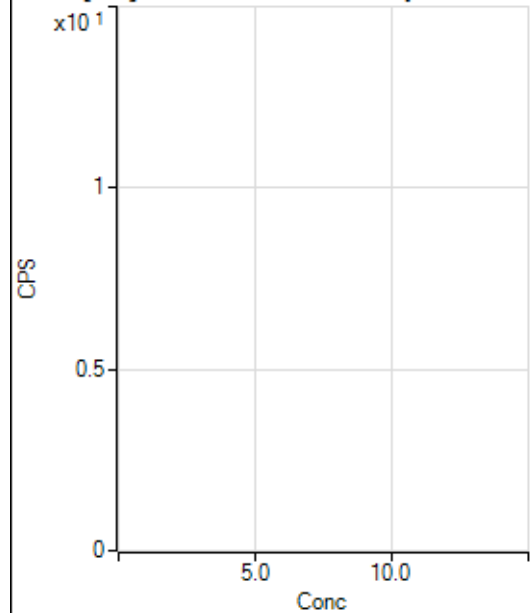
$$DL = 1.477$$

Weight: <None>

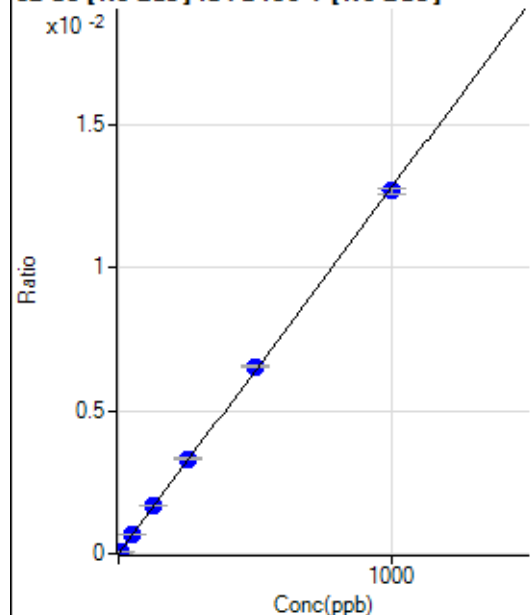
Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			8836.26		P	4.2
2	☐			9219.87		P	5.3
3	☐			8805.71		P	2.9
4	☐			8744.53		P	2.7
5	☐			7935.71		P	4.6
6	☐			7199.18		P	3.0
7	☐			7018.54		P	3.6
8	☐			6657.28		P	1.4

81 Br [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			43.38		P	48.0
2	☐			43.38		P	58.1
3	☐			36.70		P	68.6
4	☐			66.73		P	31.2
5	☐			40.04		P	90.1
6	☐			66.73		P	8.7
7	☐			50.05		P	52.9
8	☐			50.05		P	20.0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	32.18	0.0000	P	90.5
2	☐	5.000	5.488	858.83	0.0001	P	3.4
3	☐	50.000	51.435	7678.58	0.0007	P	1.5
4	☐	125.000	130.397	18869.35	0.0017	P	2.0
5	☐	250.000	259.592	36214.94	0.0033	P	0.6
6	☐	500.000	511.186	67461.20	0.0065	P	1.2
7	☐	1000.000	991.260	126233.55	0.0127	P	1.3
8	☐			45.63	0.0000	P	170.

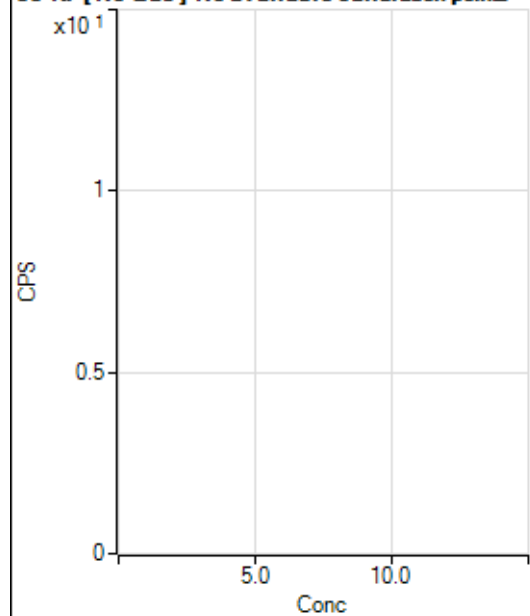
$$y = 1.2774\text{E-}005 * x + 2.7541\text{E-}006$$

$$R = 0.9999$$

$$DL = 0.5852$$

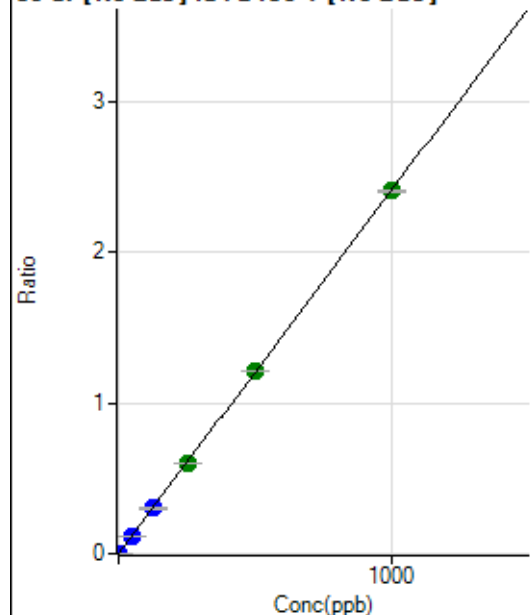
Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐			826.70		P	4.6
2	☐			784.47		P	8.1
3	☐			766.70		P	3.5
4	☐			727.81		P	10.6
5	☐			710.03		P	6.2
6	☐			627.80		P	3.5
7	☐			678.91		P	7.6
8	☐			658.91		P	12.9

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1436.22	0.0001	P	2.1
2	☐	1.000	0.108	4509.16	0.0004	P	5.3
3	☐	50.000	49.525	1389241.97	0.1194	P	0.7
4	☐	125.000	124.405	3389177.07	0.2997	P	0.5
5	☐	250.000	250.406	6580710.65	0.6030	A	0.4
6	☐	500.000	503.328	12517252.02	1.2120	A	0.5
7	☐	1000.000	998.334	23961073.80	2.4039	A	0.5
8	☐			7407.62	0.0008	P	2.9

$$y = 0.0024 * x + 1.2324E-004$$

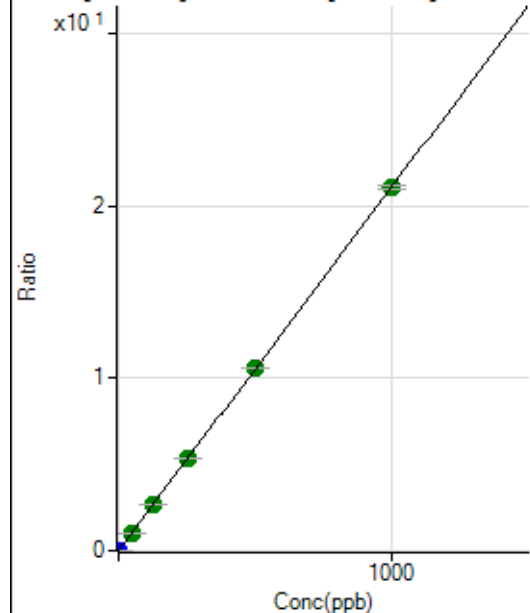
$$R = 1.0000$$

$$DL = 0.003291$$

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	272.23	0.0000	P	10.1
2	☐	1.000	0.107	26878.43	0.0023	P	0.2
3	☐	50.000	49.788	12224860.60	1.0504	A	0.5
4	☐	125.000	126.451	30172890.95	2.6678	A	0.1
5	☐	250.000	252.843	58207886.72	5.3343	A	0.9
6	☐	500.000	501.824	109334626.0	10.5870	A	0.5
7	☐	1000.000	998.207	209902336.6	21.0593	A	1.1
8	☐			55407.18	0.0057	P	0.9

$$y = 0.0211 * x + 2.3352E-005$$

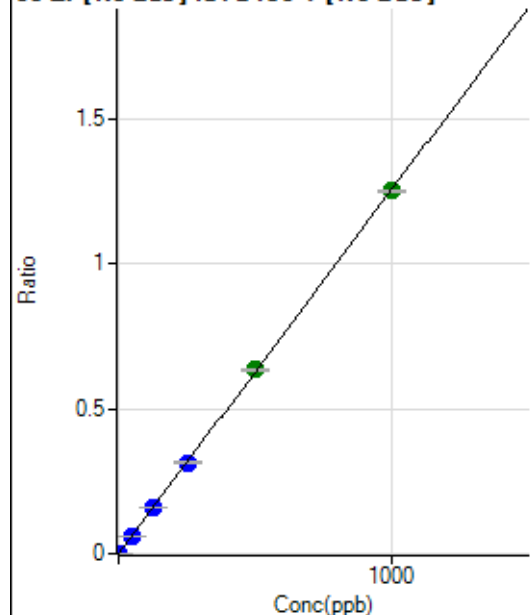
$$R = 1.0000$$

$$DL = 0.0003347$$

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	722.26	0.0001	P	10.7
2	☐	1.000	0.968	15052.73	0.0013	P	2.5
3	☐	50.000	49.492	723760.55	0.0622	P	0.4
4	☐	125.000	126.156	1791775.93	0.1584	P	0.5
5	☐	250.000	250.489	3431863.97	0.3145	P	0.6
6	☐	500.000	505.068	6548045.46	0.6341	A	1.1
7	☐	1000.000	997.225	12477921.20	1.2519	A	0.8
8	☐			2605.86	0.0003	P	5.2

$$y = 0.0013 * x + 6.2014E-005$$

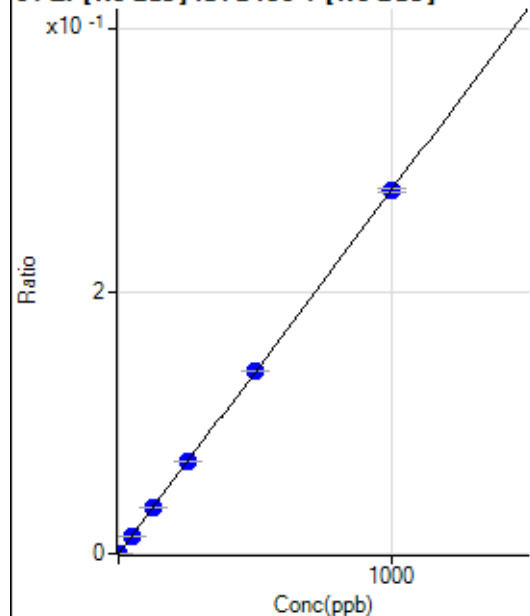
$$R = 1.0000$$

$$DL = 0.01587$$

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	172.23	0.0000	P	10.8
2	☐	1.000	0.921	3183.79	0.0003	P	5.5
3	☐	50.000	49.706	160514.33	0.0138	P	0.5
4	☐	125.000	126.831	397770.73	0.0352	P	0.4
5	☐	250.000	253.548	767048.67	0.0703	P	0.4
6	☐	500.000	501.843	1436658.82	0.1391	P	0.6
7	☐	1000.000	997.977	2757342.36	0.2766	P	0.9
8	☐			577.81	0.0001	P	7.1

$$y = 2.7718E-004 * x + 1.4776E-005$$

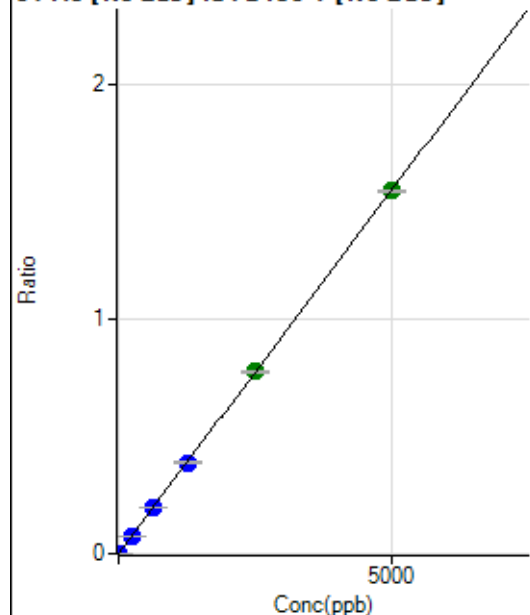
$$R = 1.0000$$

$$DL = 0.0172$$

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	275.01	0.0000	P	15.1
2	☐	5.000	4.886	18095.16	0.0015	P	1.6
3	☐	250.000	247.173	889986.01	0.0765	P	0.8
4	☐	625.000	628.367	2198343.09	0.1944	P	0.3
5	☐	1250.000	1255.400	4237271.41	0.3883	P	0.4
6	☐	2500.000	2510.847	8019910.94	0.7766	A	1.0
7	☐	5000.000	4992.947	15392551.21	1.5443	A	0.8
8	☐			3861.73	0.0004	P	6.1

$$y = 3.0929E-004 * x + 2.3599E-005$$

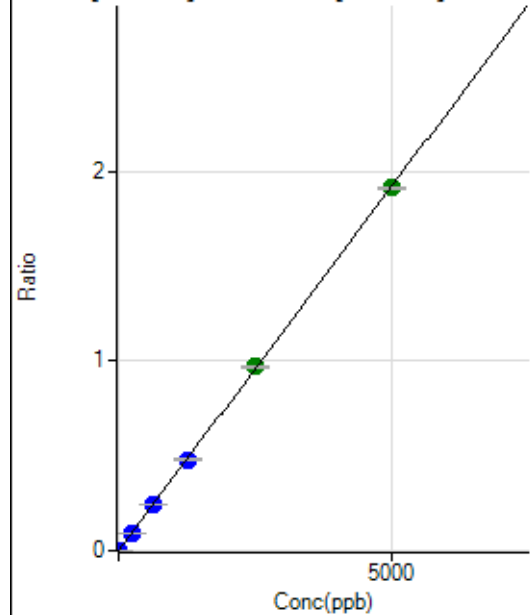
$$R = 1.0000$$

$$DL = 0.03459$$

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	46.4
2	☐	5.000	4.895	22162.10	0.0019	P	2.0
3	☐	250.000	248.692	1110048.89	0.0954	P	0.4
4	☐	625.000	630.412	2734501.99	0.2418	P	0.2
5	☐	1250.000	1253.445	5245716.48	0.4807	P	0.5
6	☐	2500.000	2529.942	10020106.56	0.9703	A	0.9
7	☐	5000.000	4983.557	19051094.70	1.9113	A	0.6
8	☐			5134.38	0.0005	P	8.7

$$y = 3.8352E-004 * x + 2.3887E-006$$

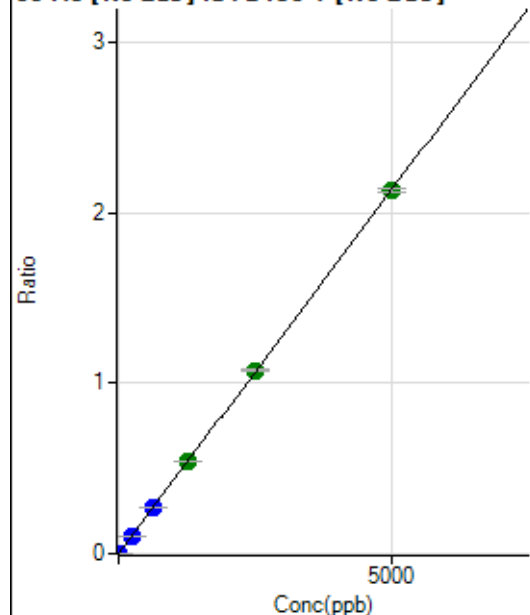
$$R = 1.0000$$

$$DL = 0.008665$$

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	83.34	0.0000	P	33.8
2	☐	5.000	4.965	25028.01	0.0021	P	1.5
3	☐	250.000	248.708	1233658.70	0.1060	P	0.4
4	☐	625.000	631.565	3044281.34	0.2692	P	0.4
5	☐	1250.000	1260.078	5860148.83	0.5370	A	0.4
6	☐	2500.000	2516.732	11076635.75	1.0726	A	0.9
7	☐	5000.000	4988.358	21190313.67	2.1259	A	1.0
8	☐			6343.26	0.0007	P	10.4

$$y = 4.2618\text{E-}004 * x + 7.1400\text{E-}006$$

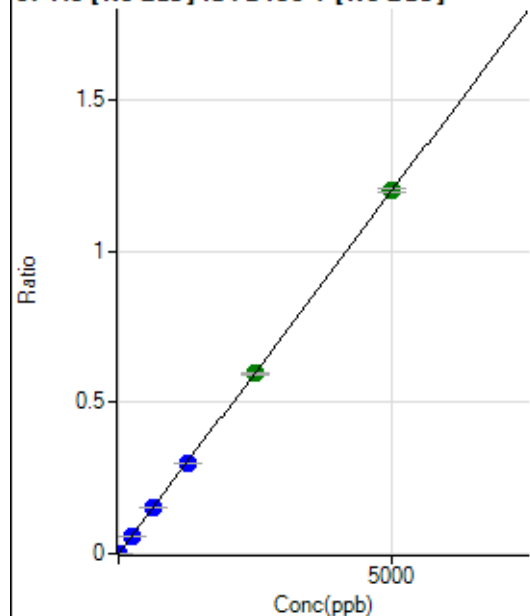
$$R = 1.0000$$

$$DL = 0.017$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	19.44	0.0000	P	65.9
2	☐	5.000	4.887	13837.56	0.0012	P	2.8
3	☐	250.000	247.251	690166.32	0.0593	P	0.5
4	☐	625.000	629.764	1708296.11	0.1510	P	0.5
5	☐	1250.000	1253.374	3280330.43	0.3006	P	0.4
6	☐	2500.000	2485.320	6155619.15	0.5961	A	1.5
7	☐	5000.000	5006.039	11967267.63	1.2006	A	1.1
8	☐			3078.20	0.0003	P	5.0

$$y = 2.3984\text{E-}004 * x + 1.6705\text{E-}006$$

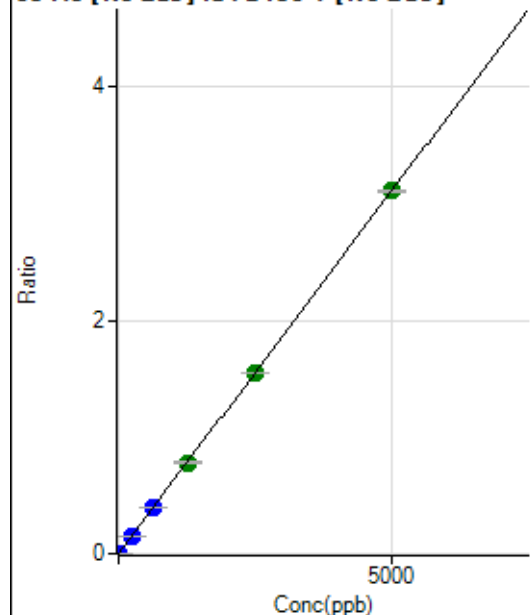
$$R = 1.0000$$

$$DL = 0.01378$$

Weight: <None>

Min Conc: 0

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	58.33	0.0000	P	43.4
2	☐	5.000	4.859	35658.98	0.0030	P	1.5
3	☐	250.000	248.435	1796893.42	0.1544	P	0.3
4	☐	625.000	628.709	4419085.69	0.3907	P	0.1
5	☐	1250.000	1258.724	8536137.26	0.7822	A	0.2
6	☐	2500.000	2489.443	15976979.70	1.5471	A	0.7
7	☐	5000.000	5002.712	30988648.96	3.1090	A	0.7
8	☐			7782.89	0.0008	P	7.0

$$y = 6.2146E-004 * x + 5.0162E-006$$

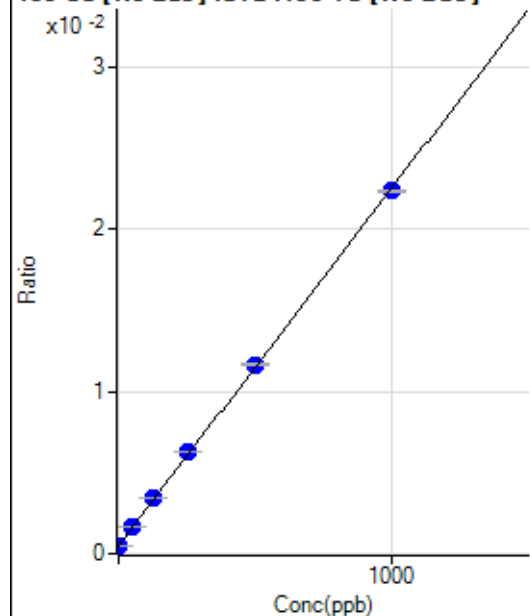
$$R = 1.0000$$

$$DL = 0.01051$$

Weight: <None>

Min Conc: 0

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	5731.86	0.0005	P	2.0
2	☐	1.000	0.835	6020.88	0.0005	P	3.8
3	☐	50.000	53.202	19416.49	0.0017	P	1.7
4	☐	125.000	133.659	39485.98	0.0034	P	3.0
5	☐	250.000	261.172	70483.39	0.0062	P	0.3
6	☐	500.000	505.630	128583.66	0.0116	P	1.0
7	☐	1000.000	993.150	238786.60	0.0223	P	0.5
8	☐			4692.57	0.0005	P	1.4

$$y = 2.1996E-005 * x + 4.9291E-004$$

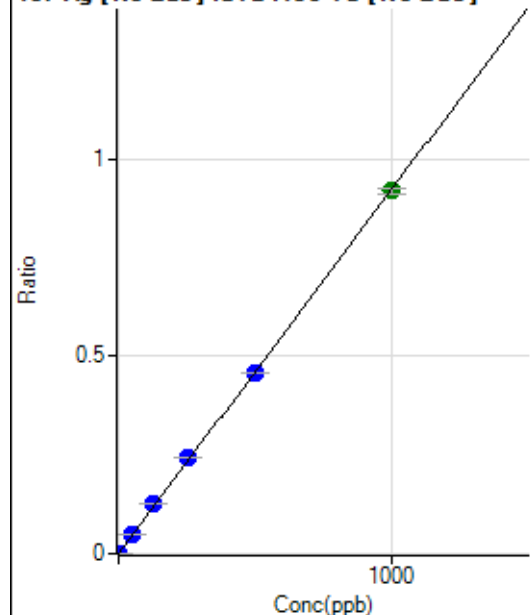
$$R = 0.9999$$

$$DL = 1.354$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	100.00	0.0000	P	36.5
2	☐	1.000	1.082	11841.34	0.0010	P	3.2
3	☐	50.000	54.640	587815.90	0.0504	P	0.3
4	☐	125.000	136.967	1451395.29	0.1262	P	0.3
5	☐	250.000	263.223	2740259.67	0.2425	P	0.8
6	☐	500.000	496.632	5065560.01	0.4576	P	0.5
7	☐	1000.000	996.651	9814675.66	0.9183	A	1.5
8	☐			2180.78	0.0002	P	5.2

$$y = 9.2133\text{E-}004 * x + 8.6036\text{E-}006$$

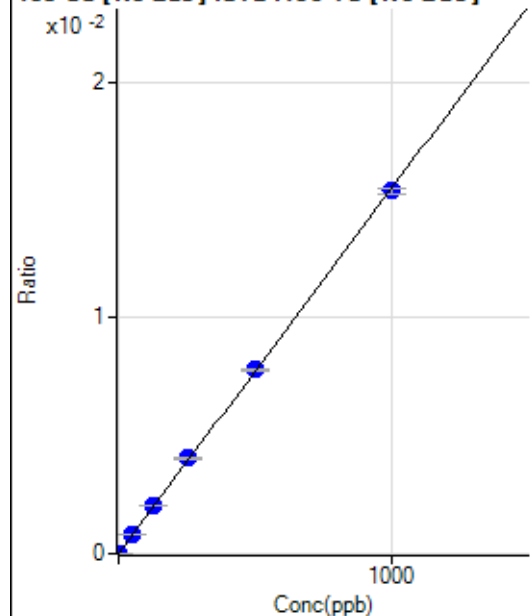
$$R = 0.9999$$

$$DL = 0.01022$$

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	27.78	0.0000	P	31.4
2	☐	1.000	1.065	222.23	0.0000	P	1.0
3	☐	50.000	53.321	9661.72	0.0008	P	2.9
4	☐	125.000	131.545	23440.23	0.0020	P	0.8
5	☐	250.000	261.292	45714.87	0.0040	P	2.3
6	☐	500.000	505.260	86591.78	0.0078	P	1.1
7	☐	1000.000	993.563	164373.07	0.0154	P	1.6
8	☐			179.17	0.0000	P	4.6

$$y = 1.5476\text{E-}005 * x + 2.3899\text{E-}006$$

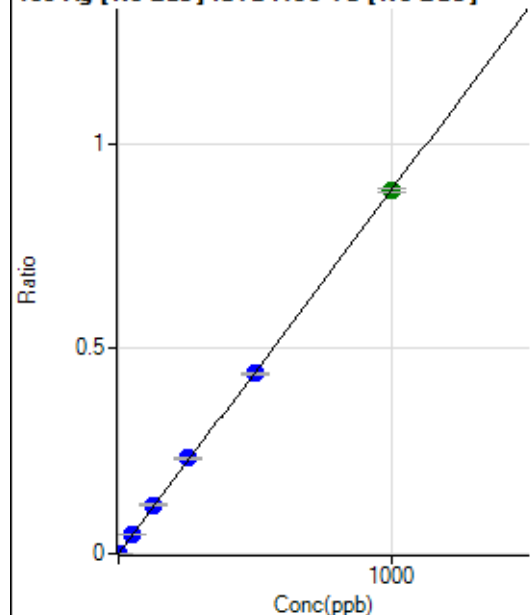
$$R = 0.9999$$

$$DL = 0.1456$$

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	16.66	0.0000	P	86.1
2	☐	1.000	1.033	10801.65	0.0009	P	1.4
3	☐	50.000	54.684	566143.59	0.0485	P	0.4
4	☐	125.000	134.770	1374424.07	0.1195	P	1.0
5	☐	250.000	261.947	2624588.21	0.2323	P	1.1
6	☐	500.000	494.890	4858382.01	0.4389	P	0.6
7	☐	1000.000	998.113	9460879.99	0.8851	A	0.9
8	☐			2019.65	0.0002	P	4.5

$$y = 8.8677E-004 * x + 1.4288E-006$$

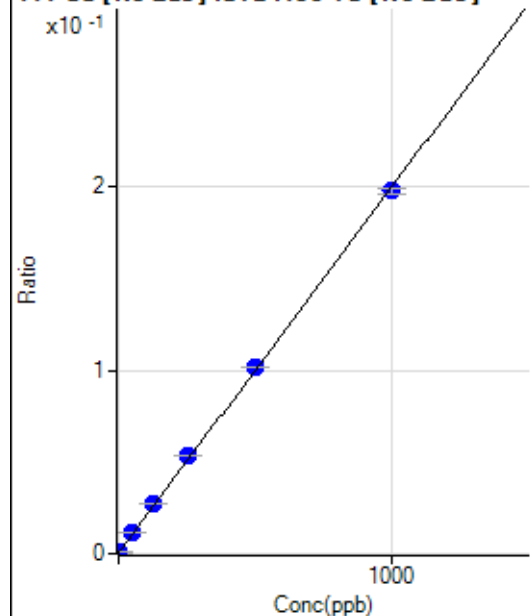
$$R = 0.9999$$

$$DL = 0.004162$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	4001.19	0.0003	P	2.0
2	☐	1.000	1.074	6574.60	0.0006	P	2.3
3	☐	50.000	53.862	129468.92	0.0111	P	0.9
4	☐	125.000	136.177	316394.90	0.0275	P	1.1
5	☐	250.000	267.064	605890.38	0.0536	P	1.0
6	☐	500.000	507.482	1124644.81	0.1016	P	0.1
7	☐	1000.000	990.403	2115643.94	0.1979	P	1.4
8	☐			3508.00	0.0003	P	1.2

$$y = 1.9950E-004 * x + 3.4408E-004$$

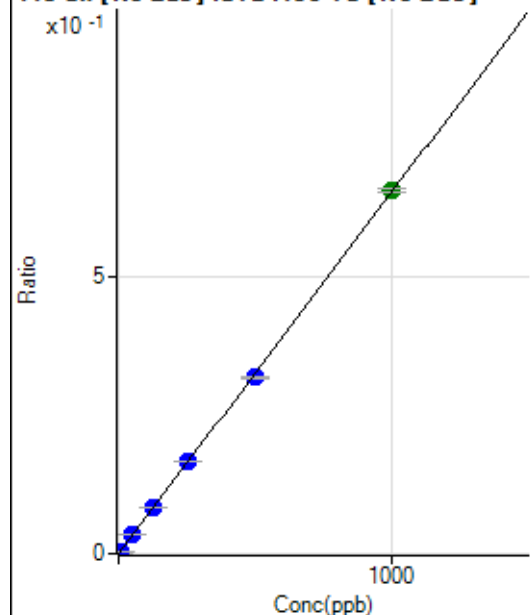
$$R = 0.9998$$

$$DL = 0.1014$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	641.70	0.0001	P	5.1
2	☐	5.000	5.064	39684.24	0.0034	P	1.0
3	☐	50.000	51.403	393473.51	0.0337	P	0.3
4	☐	125.000	129.185	973131.02	0.0846	P	1.5
5	☐	250.000	254.296	1881444.55	0.1665	P	1.1
6	☐	500.000	488.523	3540840.05	0.3198	P	0.7
7	☐	1000.000	1004.071	7026049.20	0.6573	A	1.1
8	☐			2175.23	0.0002	P	4.0

$$y = 6.5460E-004 * x + 5.5181E-005$$

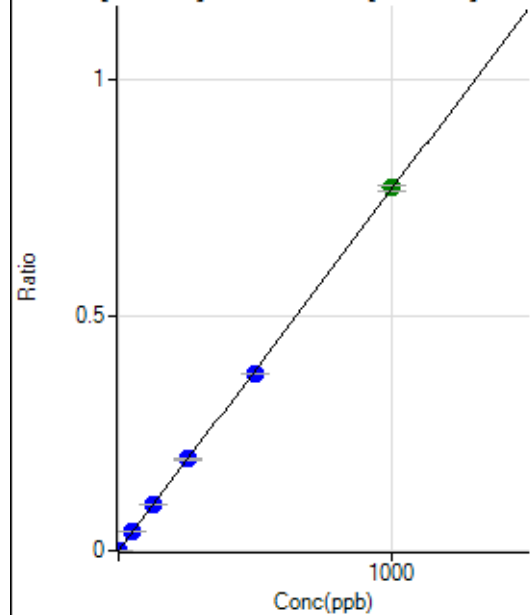
$$R = 0.9999$$

$$DL = 0.01285$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	72.22	0.0000	P	17.3
2	☐	2.000	2.021	18337.43	0.0016	P	1.9
3	☐	50.000	50.737	454662.30	0.0389	P	0.3
4	☐	125.000	127.963	1129476.12	0.0982	P	1.3
5	☐	250.000	253.555	2198717.69	0.1946	P	1.2
6	☐	500.000	488.865	4153536.34	0.3752	P	0.5
7	☐	1000.000	1004.271	8238377.96	0.7707	A	1.4
8	☐			6776.80	0.0007	P	2.4

$$y = 7.6745E-004 * x + 6.2089E-006$$

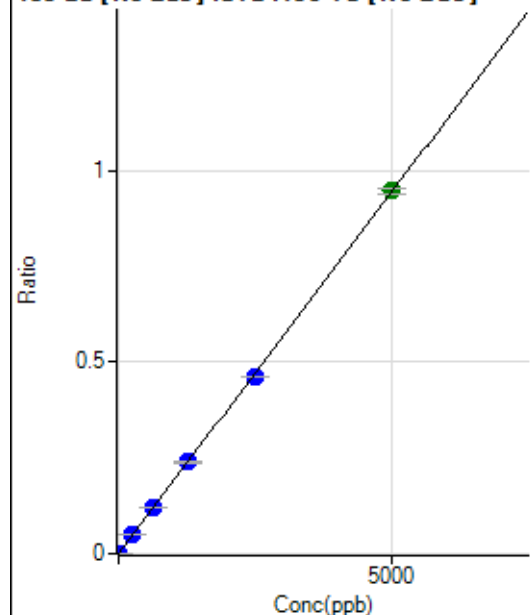
$$R = 0.9999$$

$$DL = 0.004208$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	55.56	0.0000	P	67.3
2	☐	10.000	10.160	22616.00	0.0019	P	2.2
3	☐	250.000	253.698	558549.14	0.0478	P	0.7
4	☐	625.000	639.805	1387480.24	0.1206	P	1.3
5	☐	1250.000	1265.054	2695280.88	0.2385	P	1.3
6	☐	2500.000	2451.672	5117978.59	0.4623	P	0.4
7	☐	5000.000	5018.365	10114874.97	0.9463	A	1.5
8	☐			2903.15	0.0003	P	1.8

$$y = 1.8856E-004 * x + 4.7704E-006$$

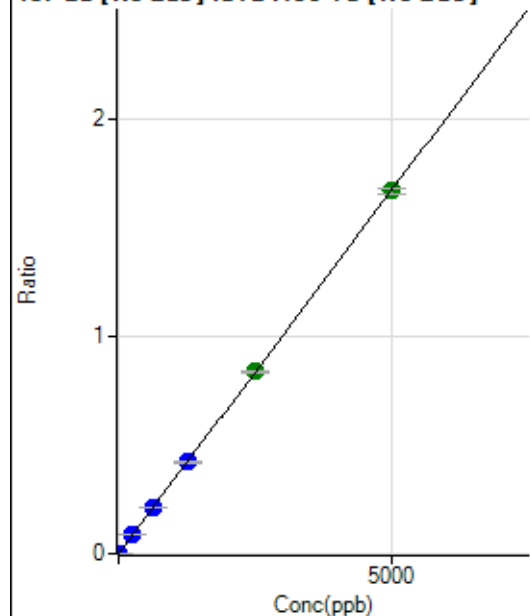
$$R = 0.9999$$

$$DL = 0.05106$$

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	58.33	0.0000	P	62.4
2	☐	10.000	9.947	39236.44	0.0033	P	2.1
3	☐	250.000	253.208	988460.32	0.0847	P	0.4
4	☐	625.000	633.481	2435933.06	0.2118	P	1.0
5	☐	1250.000	1259.246	4757263.91	0.4210	P	1.3
6	☐	2500.000	2504.506	9270672.95	0.8374	A	0.3
7	☐	5000.000	4994.215	17847782.17	1.6699	A	1.8
8	☐			4976.02	0.0005	P	6.5

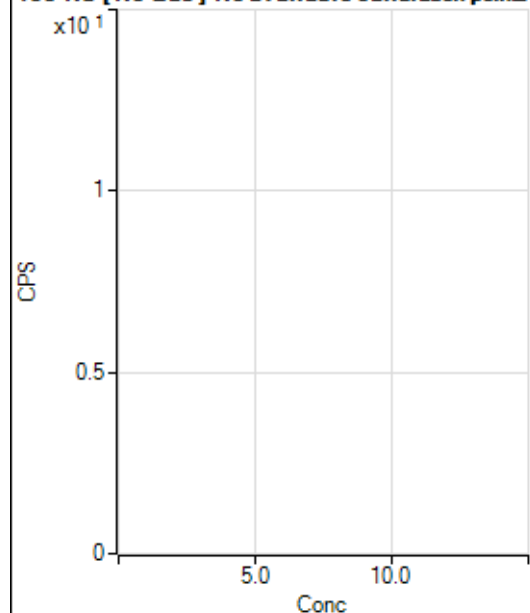
$$y = 3.3436E-004 * x + 5.0177E-006$$

$$R = 1.0000$$

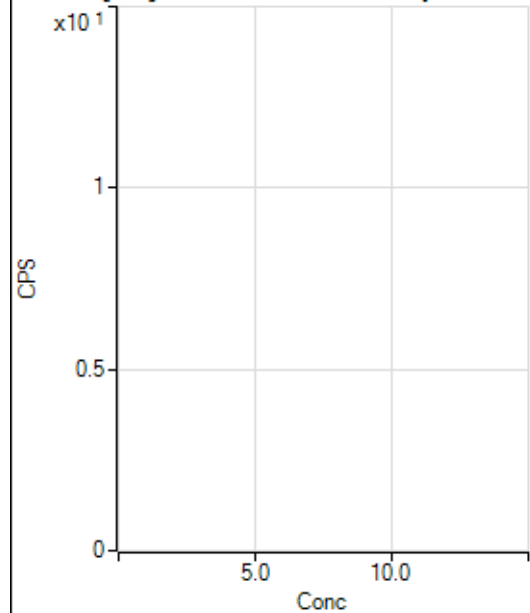
$$DL = 0.02809$$

Weight: <None>

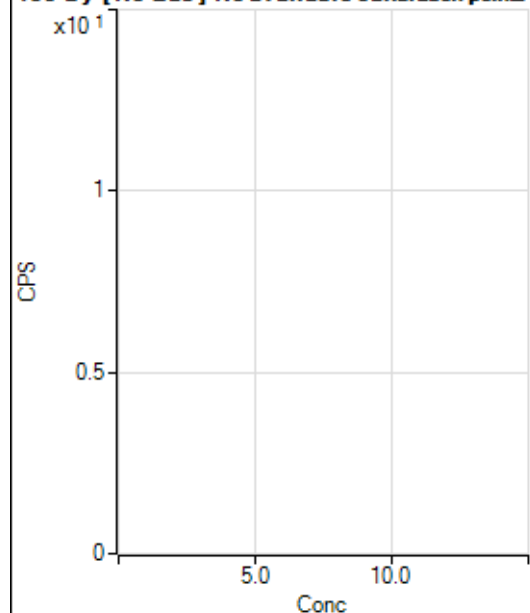
Min Conc: 0

150 Nd [No Gas] No available calibration points

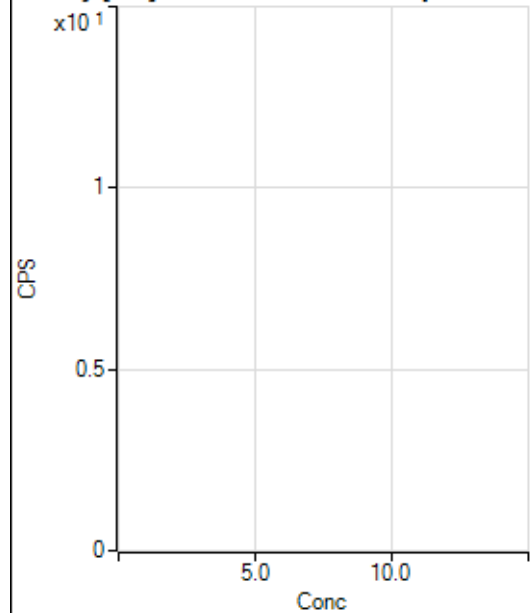
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			0.00		P	
2	☐			2.22		P	173.
3	☐			55.56		P	6.9
4	☐			113.34		P	36.7
5	☐			240.01		P	15.5
6	☐			431.13		P	8.5
7	☐			833.38		P	5.6
8	☐			24.44		P	41.7

150 Nd [He] No available calibration points

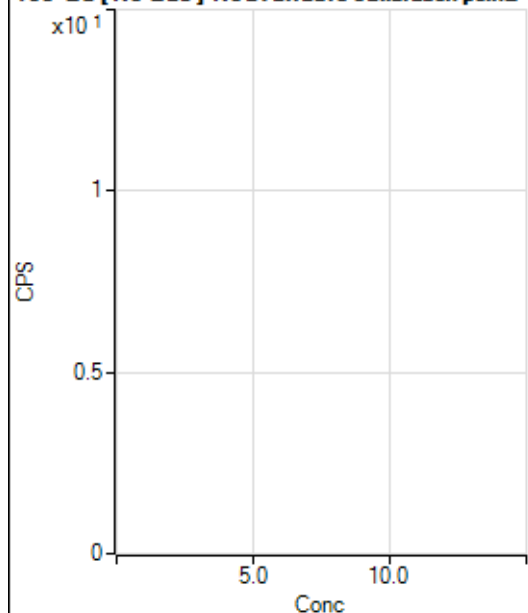
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			0.00		P	
2	☐			1.11		P	173.
3	☐			14.45		P	26.7
4	☐			17.78		P	10.8
5	☐			33.33		P	34.6
6	☐			68.89		P	20.1
7	☐			127.78		P	15.7
8	☐			18.89		P	10.2

156 Dy [No Gas] No available calibration points

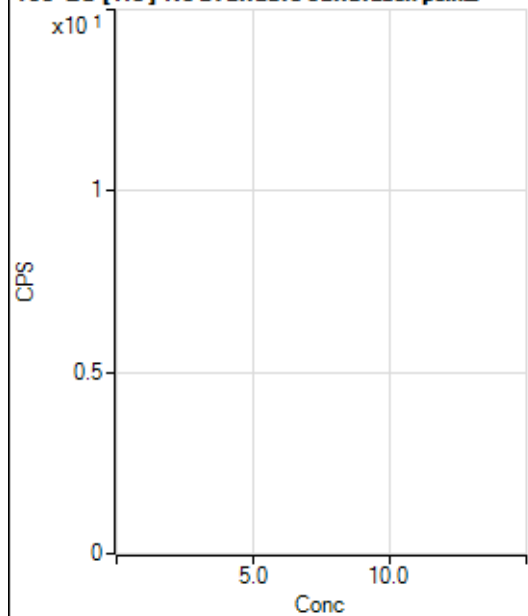
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			5.55		P	86.6
2	☐			5.55		P	86.6
3	☐			38.89		P	44.6
4	☐			147.23		P	19.9
5	☐			194.45		P	34.9
6	☐			375.01		P	5.9
7	☐			641.70		P	4.7
8	☐			1566.80		P	5.2

156 Dy [He] No available calibration points

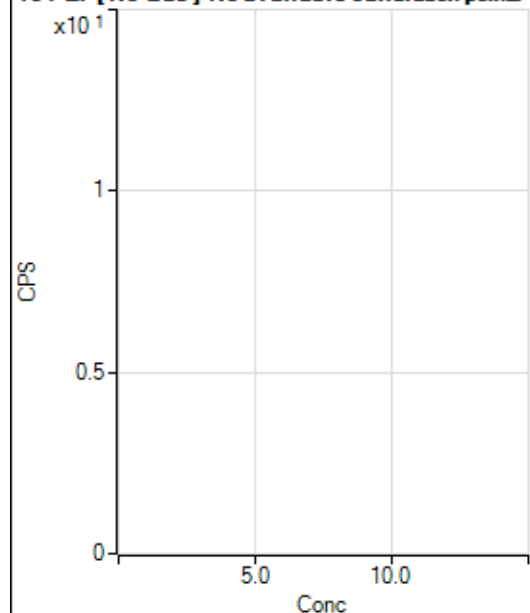
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1.11		P	173.
2	☐			1.11		P	173.
3	☐			27.78		P	36.7
4	☐			60.00		P	28.9
5	☐			124.45		P	6.7
6	☐			225.56		P	1.7
7	☐			443.34		P	12.1
8	☐			994.49		P	2.2

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

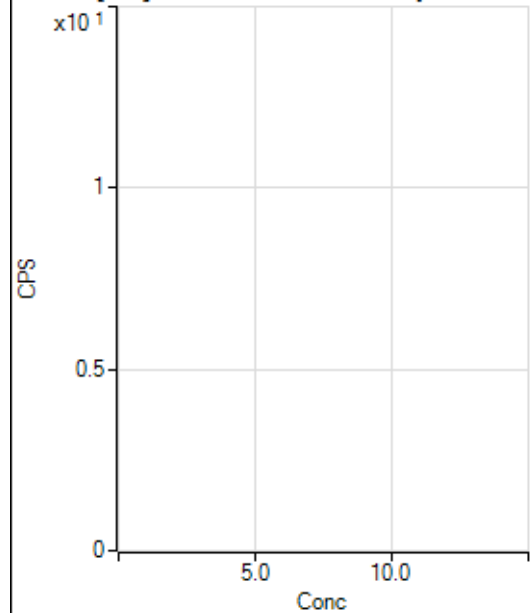
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			88.89		P	48.1
2	☐			75.00		P	19.2
3	☐			91.67		P	18.2
4	☐			138.89		P	12.5
5	☐			202.79		P	17.1
6	☐			341.68		P	20.8
7	☐			644.48		P	3.0
8	☐			1655.70		P	2.3

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			136.67		P	10.6
2	☐			117.78		P	5.9
3	☐			132.23		P	23.8
4	☐			157.78		P	20.1
5	☐			198.89		P	2.6
6	☐			302.23		P	18.5
7	☐			462.24		P	7.7
8	☐			1172.28		P	2.7

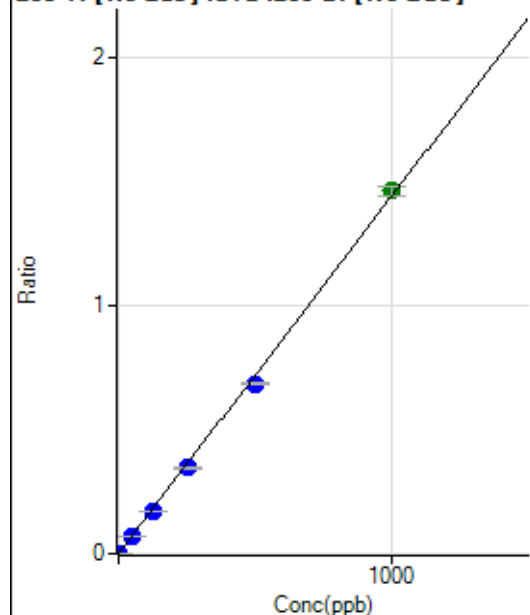
164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			88.89		P	27.1
2	☐			63.89		P	7.5
3	☐			69.45		P	25.0
4	☐			83.33		P	36.1
5	☐			136.11		P	12.7
6	☐			111.11		P	42.7
7	☐			180.56		P	25.4
8	☐			297.24		P	23.8

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			42.22		P	22.8
2	☐			54.44		P	35.4
3	☐			40.00		P	22.0
4	☐			48.89		P	20.8
5	☐			47.78		P	31.5
6	☐			72.22		P	10.7
7	☐			104.45		P	19.2
8	☐			165.56		P	17.4

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	150.01	0.0000	P	5.3
2	☐	1.000	0.962	11160.51	0.0014	P	3.9
3	☐	50.000	47.173	540952.91	0.0678	P	0.3
4	☐	125.000	120.246	1364432.09	0.1729	P	0.5
5	☐	250.000	239.652	2669110.97	0.3446	P	0.9
6	☐	500.000	475.104	5148594.08	0.6831	P	1.5
7	☐	1000.000	1015.770	10402947.02	1.4604	A	2.5
8	☐			4109.07	0.0007	P	11.8

$$y = 0.0014 * x + 1.8711E-005$$

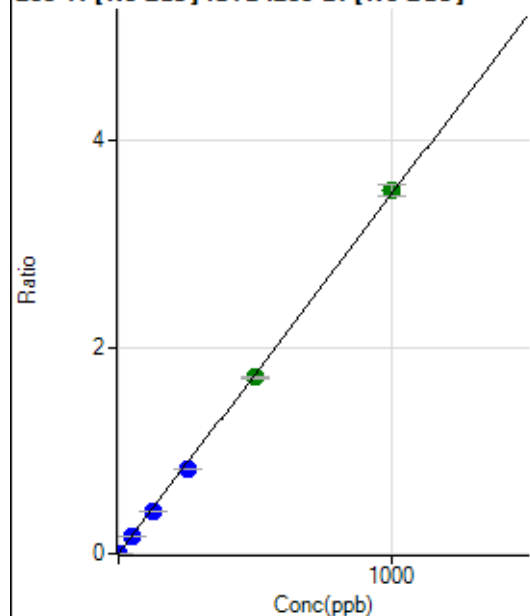
$$R = 0.9995$$

$$DL = 0.002064$$

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	386.13	0.0000	P	12.8
2	☐	1.000	0.944	26548.99	0.0033	P	1.3
3	☐	50.000	46.934	1303545.73	0.1635	P	0.2
4	☐	125.000	118.386	3253602.92	0.4123	P	0.4
5	☐	250.000	236.967	6392173.76	0.8252	P	0.6
6	☐	500.000	489.810	12856619.38	1.7057	A	0.6
7	☐	1000.000	1009.333	25033797.09	3.5147	A	3.1
8	☐			9492.57	0.0015	P	14.7

$$y = 0.0035 * x + 4.8159E-005$$

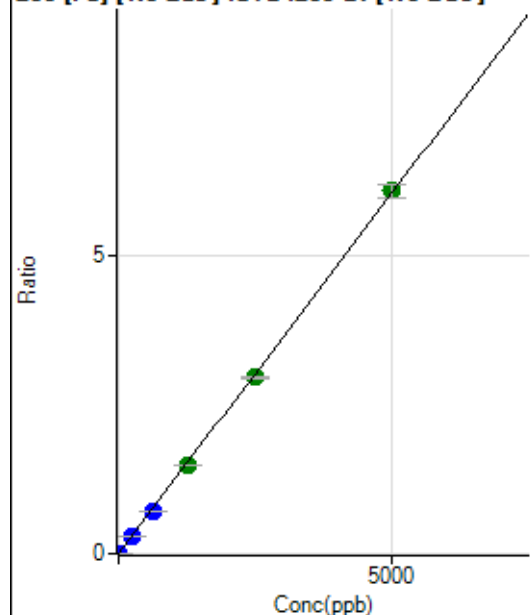
$$R = 0.9998$$

$$DL = 0.005294$$

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	888.94	0.0001	P	1.8
2	☐	1.000	0.946	10000.19	0.0013	P	1.8
3	☐	250.000	229.568	2218237.96	0.2782	P	0.2
4	☐	625.000	580.132	5546437.80	0.7028	P	0.5
5	☐	1250.000	1228.483	11528013.34	1.4882	A	1.3
6	☐	2500.000	2445.649	22330854.67	2.9626	A	0.7
7	☐	5000.000	5039.185	43472640.79	6.1042	A	3.7
8	☐			20120.96	0.0032	P	2.1

$$y = 0.0012 * x + 1.1089E-004$$

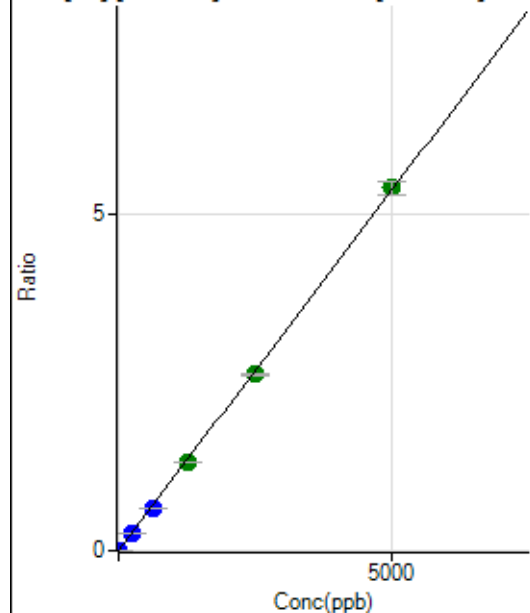
$$R = 0.9999$$

$$DL = 0.005052$$

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	718.55	0.0001	P	6.9
2	☐	1.000	0.911	8462.06	0.0011	P	4.1
3	☐	250.000	228.346	1949121.60	0.2444	P	0.5
4	☐	625.000	578.927	4889546.64	0.6196	P	0.4
5	☐	1250.000	1235.374	10241114.93	1.3221	A	0.8
6	☐	2500.000	2444.916	19721229.84	2.6164	A	0.9
7	☐	5000.000	5038.040	38395772.62	5.3913	A	3.7
8	☐			17813.95	0.0029	P	1.1

$$y = 0.0011 * x + 8.9650E-005$$

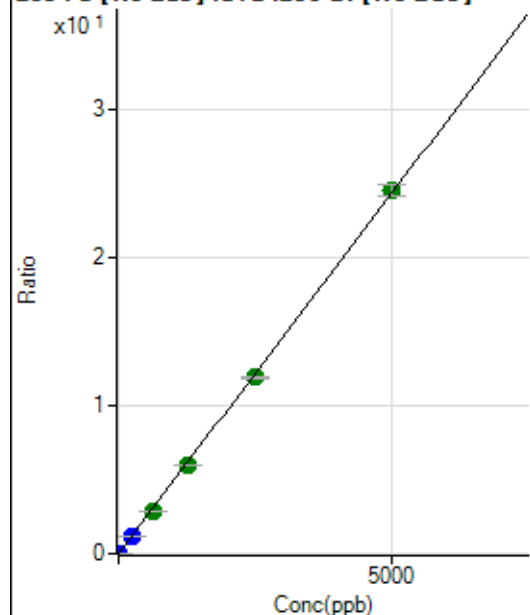
$$R = 0.9999$$

$$DL = 0.01733$$

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	3250.22	0.0004	P	2.4
2	☐	1.000	0.949	39974.37	0.0050	P	1.7
3	☐	250.000	229.307	8907083.16	1.1171	P	0.4
4	☐	625.000	596.601	22929779.97	2.9056	A	0.3
5	☐	1250.000	1233.109	46517979.74	6.0052	A	0.6
6	☐	2500.000	2446.312	89795709.19	11.9131	A	0.9
7	☐	5000.000	5035.651	174655503.4	24.5222	A	3.3
8	☐			80982.23	0.0130	P	0.3

$$y = 0.0049 * x + 4.0548E-004$$

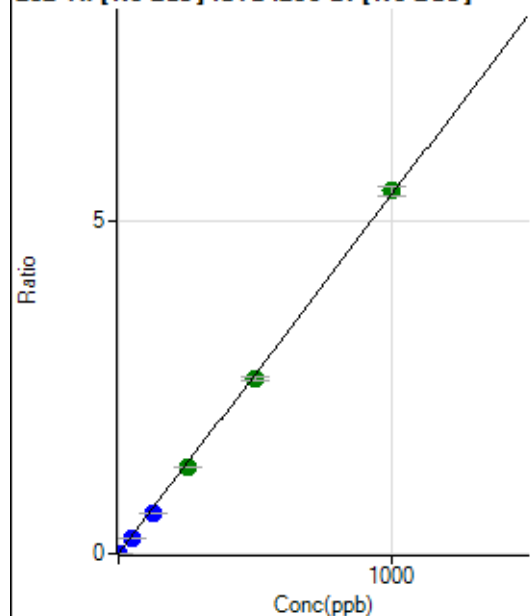
$$R = 0.9999$$

$$DL = 0.006011$$

Weight: <None>

Min Conc: 0

232 Th [No Gas] ISTD :209 Bi [No Gas]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	187.04	0.0000	P	9.4
2	☐	1.000	-0.001	150.00	0.0000	P	8.3
3	☐	50.000	43.218	1857661.20	0.2330	P	0.3
4	☐	125.000	110.687	4708466.14	0.5966	P	0.6
5	☐	250.000	240.791	10053870.48	1.2979	A	1.2
6	☐	500.000	487.464	19804396.50	2.6275	A	1.5
7	☐	1000.000	1010.700	38805004.57	5.4479	A	3.0
8	☐			2905.94	0.0005	P	6.2

$$y = 0.0054 * x + 2.3331E-005$$

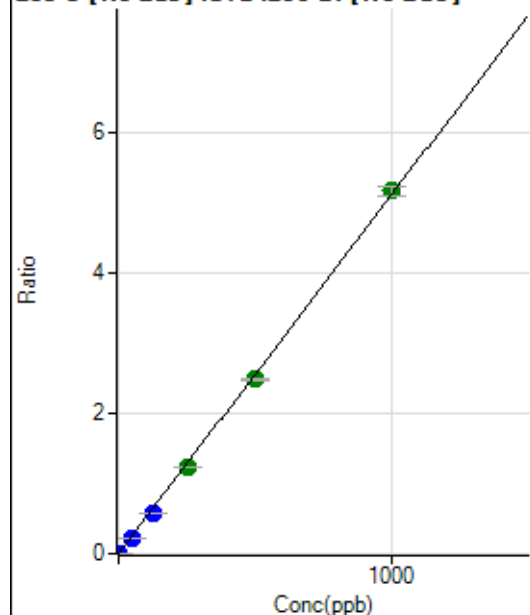
$$R = 0.9998$$

$$DL = 0.001224$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	33.33	0.0000	P	25.2
2	☐	1.000	0.863	35167.62	0.0044	P	1.9
3	☐	50.000	43.404	1770218.56	0.2220	P	0.6
4	☐	125.000	110.745	4470076.49	0.5664	P	0.4
5	☐	250.000	241.518	9569017.05	1.2353	A	1.1
6	☐	500.000	486.283	18747046.25	2.4872	A	1.3
7	☐	1000.000	1011.091	36836426.17	5.1715	A	2.8
8	☐			3439.44	0.0006	P	6.9

$$y = 0.0051 * x + 4.1594E-006$$

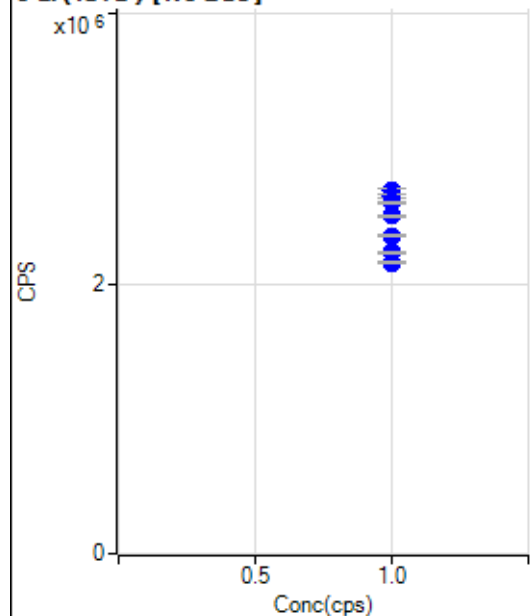
$$R = 0.9998$$

$$DL = 0.0006155$$

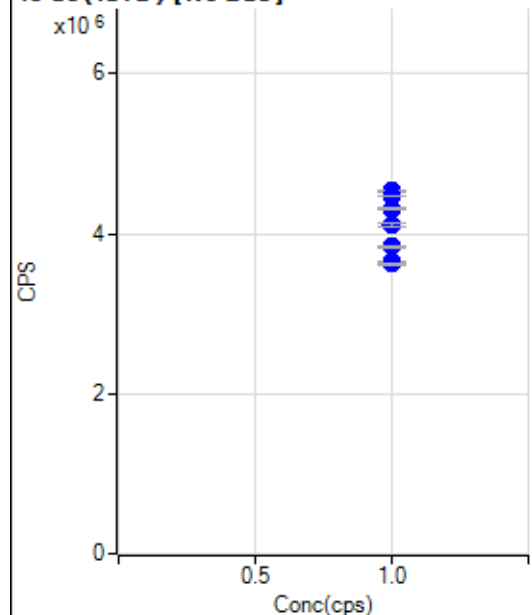
Weight: <None>

Min Conc: 0

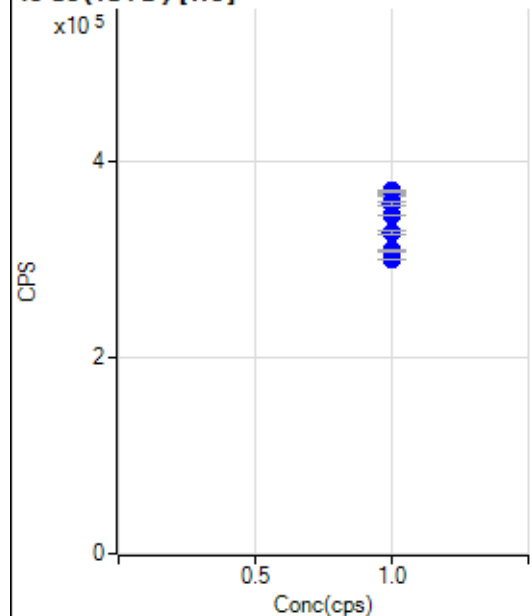
6 Li (ISTD) [No Gas]



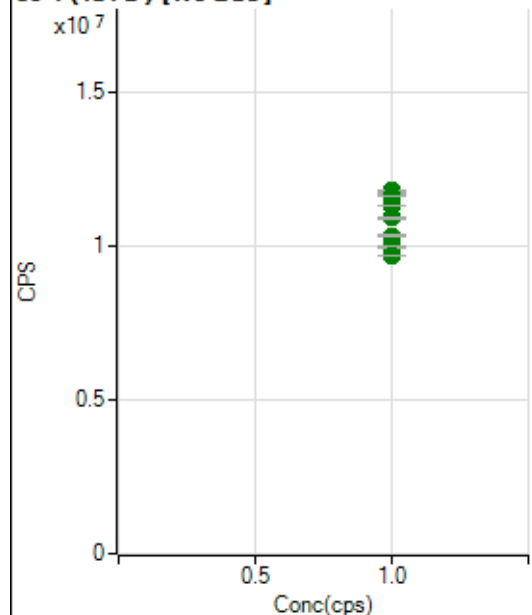
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2660627.29		P	0.2
2	☐	1.000		2688842.15		P	1.4
3	☐	1.000		2646538.31		P	0.9
4	☐	1.000		2603114.77		P	0.5
5	☐	1.000		2504215.26		P	0.7
6	☐	1.000		2357267.90		P	0.8
7	☐	1.000		2233692.80		P	0.4
8	☐	1.000		2158199.64		P	0.3

45 Sc (ISTD) [No Gas]

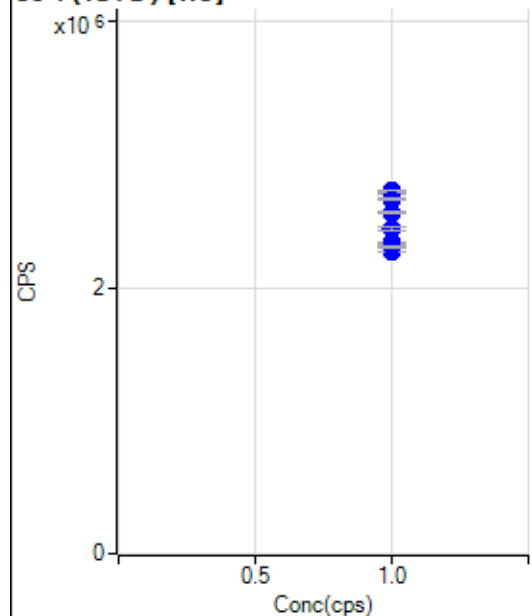
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4521649.83		P	0.5
2	☐	1.000		4533000.28		P	0.5
3	☐	1.000		4470962.78		P	0.4
4	☐	1.000		4311044.00		P	0.2
5	☐	1.000		4111043.69		P	0.7
6	☐	1.000		3834510.26		P	0.3
7	☐	1.000		3649070.05		P	0.6
8	☐	1.000		3620351.93		P	0.8

45 Sc (ISTD) [He]

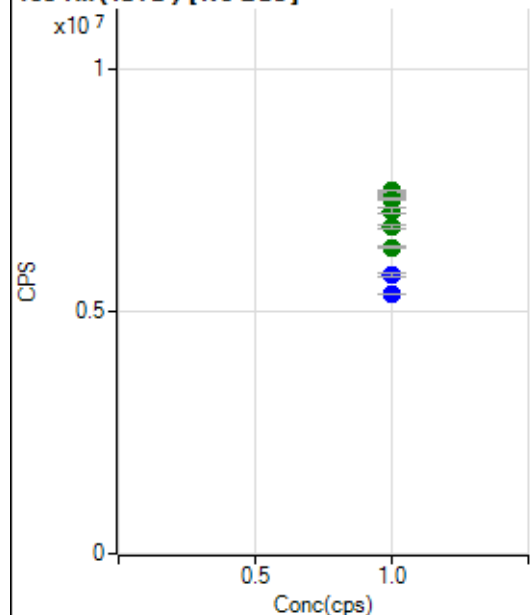
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		364433.47		P	0.4
2	☐	1.000		369296.30		P	0.6
3	☐	1.000		356183.33		P	0.9
4	☐	1.000		344346.13		P	0.4
5	☐	1.000		326658.11		P	0.9
6	☐	1.000		307599.75		P	0.7
7	☐	1.000		299502.82		P	0.4
8	☐	1.000		308475.34		P	0.6

89 Y (ISTD) [No Gas]

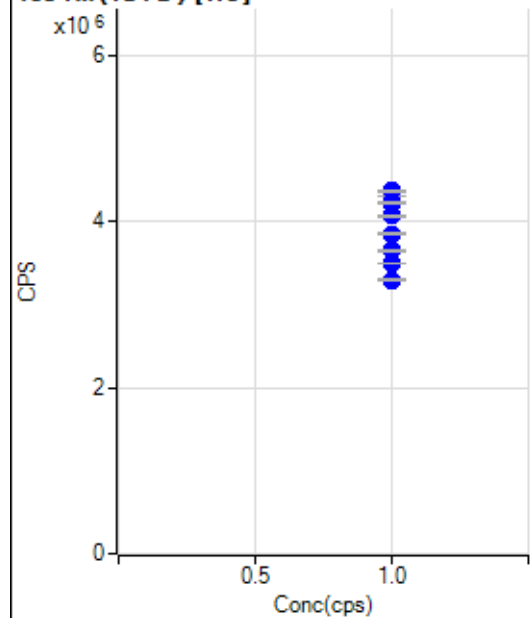
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		11652517.46		A	0.7
2	☐	1.000		11789312.60		A	0.7
3	☐	1.000		11638144.13		A	0.0
4	☐	1.000		11310099.14		A	0.4
5	☐	1.000		10912384.70		A	0.5
6	☐	1.000		10327463.53		A	0.8
7	☐	1.000		9967901.24		A	1.0
8	☐	1.000		9666172.98		A	0.1

89 Y (ISTD) [He]

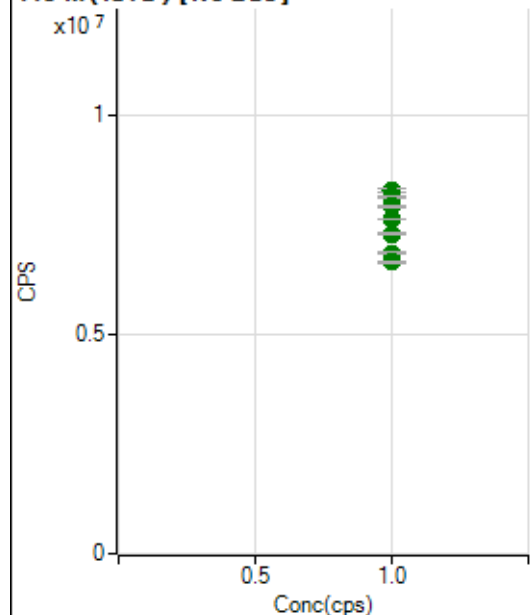
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2702539.40		P	0.3
2	☐	1.000		2728934.28		P	0.5
3	☐	1.000		2666158.92		P	0.3
4	☐	1.000		2565125.66		P	0.3
5	☐	1.000		2443907.50		P	1.1
6	☐	1.000		2336749.27		P	0.4
7	☐	1.000		2273771.63		P	0.2
8	☐	1.000		2311416.34		P	0.7

103 Rh (ISTD) [No Gas]

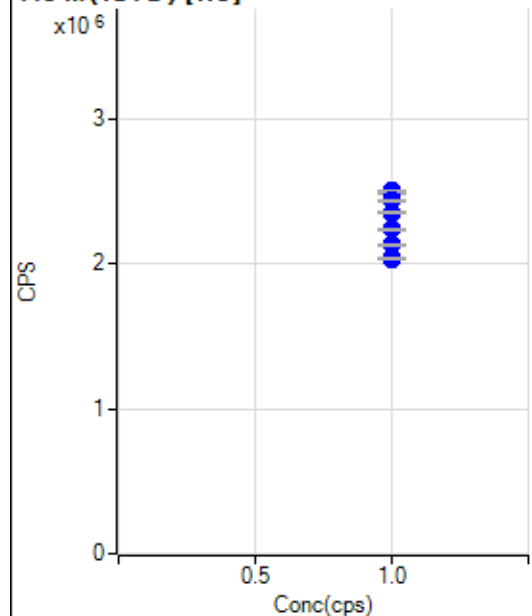
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7412608.36		A	0.7
2	☐	1.000		7498463.92		A	0.4
3	☐	1.000		7318592.04		A	0.4
4	☐	1.000		7085073.16		A	1.7
5	☐	1.000		6769245.66		A	1.0
6	☐	1.000		6323093.66		A	0.5
7	☐	1.000		5751843.11		P	1.3
8	☐	1.000		5374486.66		P	0.3

103 Rh (ISTD) [He]

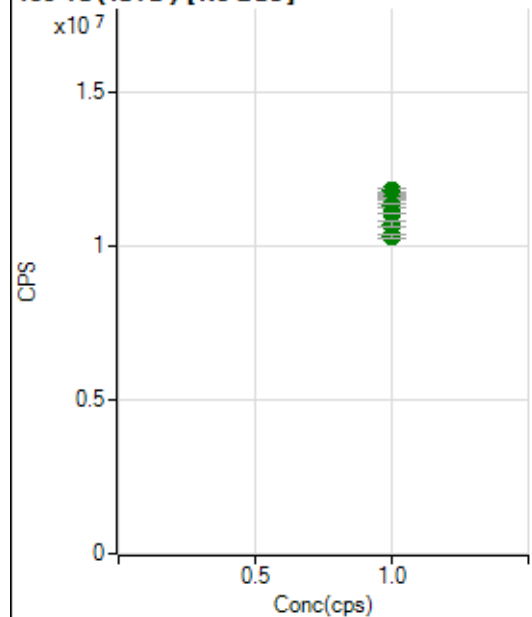
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4306095.18		P	0.3
2	☐	1.000		4370738.30		P	0.8
3	☐	1.000		4225594.55		P	0.4
4	☐	1.000		4070328.83		P	0.5
5	☐	1.000		3854451.30		P	0.6
6	☐	1.000		3655403.14		P	0.5
7	☐	1.000		3503338.39		P	0.2
8	☐	1.000		3299272.45		P	0.6

115 In (ISTD) [No Gas]

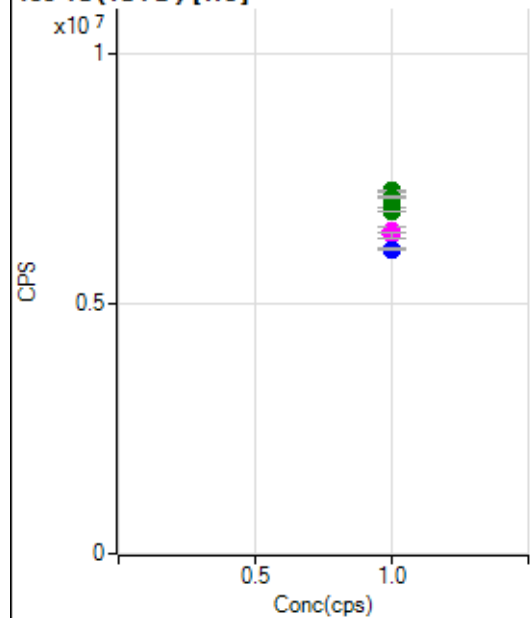
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		8244580.02		A	0.3
2	☐	1.000		8278727.72		A	1.1
3	☐	1.000		8149367.51		A	0.5
4	☐	1.000		7928148.46		A	0.7
5	☐	1.000		7638542.36		A	0.1
6	☐	1.000		7302407.25		A	0.4
7	☐	1.000		6863329.37		A	1.0
8	☐	1.000		6654020.38		A	0.4

115 In (ISTD) [He]

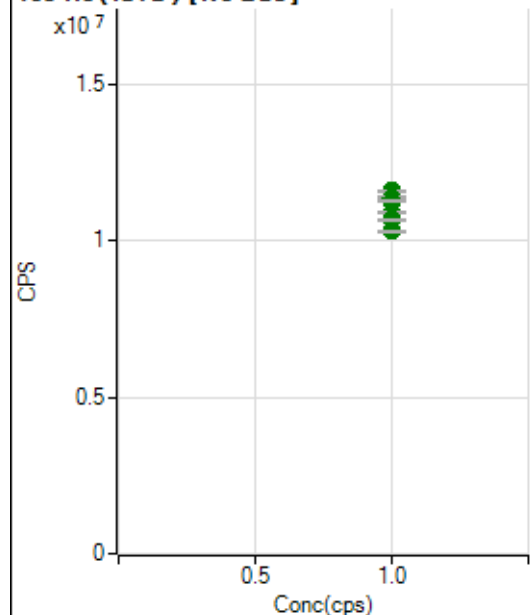
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2476120.81		P	0.2
2	☐	1.000		2501012.51		P	0.5
3	☐	1.000		2433930.89		P	0.3
4	☐	1.000		2351612.83		P	0.3
5	☐	1.000		2236287.20		P	0.4
6	☐	1.000		2128979.68		P	0.4
7	☐	1.000		2038013.30		P	0.2
8	☐	1.000		2033018.82		P	0.7

159 Tb (ISTD) [No Gas]

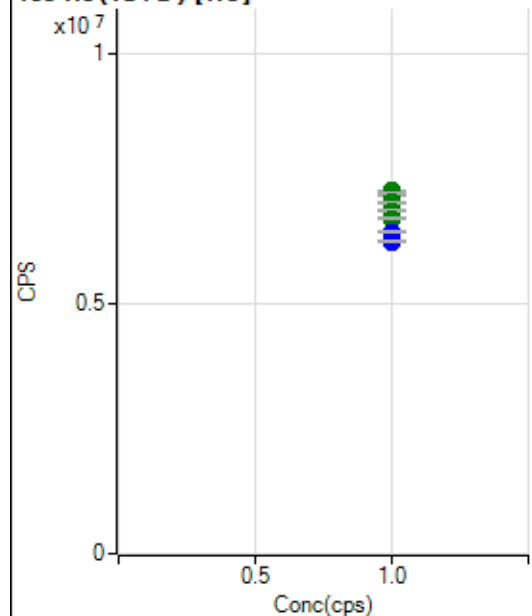
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		11628620.94		A	0.5
2	☐	1.000		11777284.69		A	1.2
3	☐	1.000		11674574.55		A	0.1
4	☐	1.000		11500780.80		A	0.7
5	☐	1.000		11299541.64		A	0.9
6	☐	1.000		11070599.84		A	0.1
7	☐	1.000		10690021.37		A	1.5
8	☐	1.000		10320672.76		A	1.0

159 Tb (ISTD) [He]

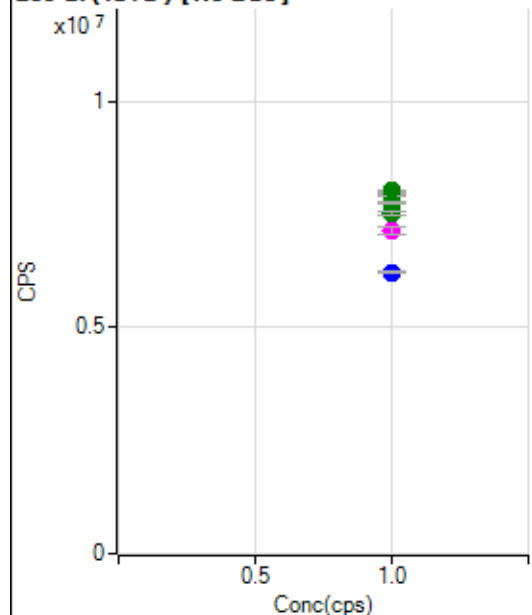
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7143975.73		A	0.7
2	☐	1.000		7259229.40		A	0.9
3	☐	1.000		7122465.03		A	0.5
4	☐	1.000		6918184.69		A	0.1
5	☐	1.000		6859194.07		A	0.1
6	☐	1.000		6468551.43		M	1.7
7	☐	1.000		6368485.95		M	1.7
8	☐	1.000		6090700.05		P	0.7

165 Ho (ISTD) [No Gas]

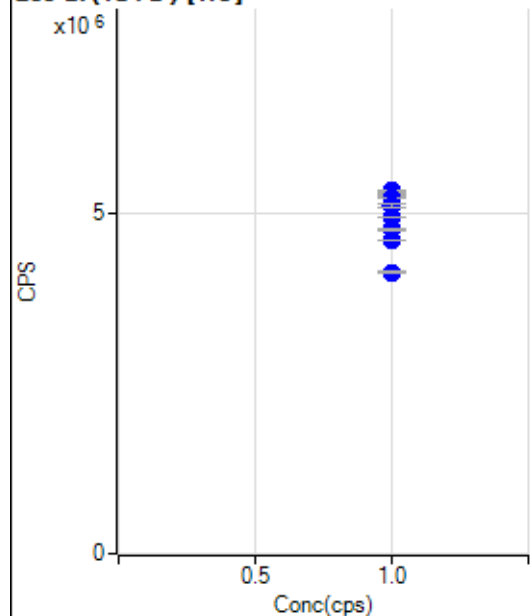
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		11436649.69		A	0.1
2	☐	1.000		11593843.16		A	0.7
3	☐	1.000		11373182.61		A	0.3
4	☐	1.000		11341569.69		A	1.2
5	☐	1.000		11251592.33		A	0.5
6	☐	1.000		10907556.23		A	0.2
7	☐	1.000		10668588.73		A	0.6
8	☐	1.000		10299938.80		A	0.4

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7192358.92		A	0.4
2	☐	1.000		7261394.27		A	0.7
3	☐	1.000		7220576.00		A	0.8
4	☐	1.000		7026190.52		A	0.4
5	☐	1.000		6859589.69		A	0.6
6	☐	1.000		6709750.67		A	0.6
7	☐	1.000		6443469.35		P	0.5
8	☐	1.000		6239486.02		P	0.5

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		8016250.78		A	0.4
2	☐	1.000		7956641.76		A	1.6
3	☐	1.000		7973742.87		A	0.4
4	☐	1.000		7891487.17		A	0.2
5	☐	1.000		7746185.51		A	0.3
6	☐	1.000		7537961.62		A	1.1
7	☐	1.000		7126343.85		M	2.6
8	☐	1.000		6220219.56		P	0.4

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5284437.28		P	0.5
2	☐	1.000		5335180.68		P	0.3
3	☐	1.000		5234662.56		P	0.2
4	☐	1.000		5118760.58		P	0.7
5	☐	1.000		4958697.70		P	0.1
6	☐	1.000		4772058.19		P	0.5
7	☐	1.000		4610681.98		P	0.5
8	☐	1.000		4138595.32		P	0.4

US EPA Tune Check Sample Report

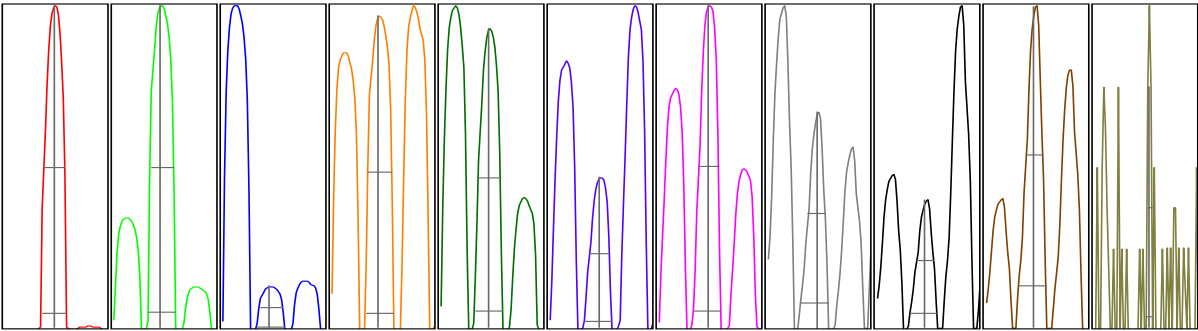
Batch Folder C:\Agilent\ICPMH\1\DATA\P7080621MS.b
Report Comment
Instrument Name G8403A JP14410463

[No Gas]

Mass	Count (Mean)	RSD% (Actual)	RSD% (Required)	RSD% (Flag)
9	7539	1.12	5.00	
24	94773	0.36	5.00	
25	12525	0.58	5.00	
26	14228	0.74	5.00	
59	18043	0.45	5.00	
113	11451	0.93	5.00	
115	32622	0.73	5.00	
206	17369	0.73	5.00	
207	15131	0.70	5.00	
208	35708	0.88	5.00	
220	0	59.27		

Mass	Replicate 1 Count	Replicate 2 Count	Replicate 3 Count	Replicate 4 Count	Replicate 5 Count
9	7444	7457	7636	7585	7573
24	94651	94545	95187	95082	94402
25	12469	12533	12605	12583	12437
26	14185	14202	14378	14277	14099
59	17981	18123	18136	18013	17962
113	11347	11509	11590	11466	11342
115	32586	32520	33035	32541	32426
206	17309	17352	17532	17447	17203
207	15027	15160	15213	15243	15013
208	35618	35390	35894	36159	35481
220	0	0	0	0	0

Integration Time [sec] = 0.1



Mass	Peak Height	Axis (Actual)	Axis (Required)	Axis (Flag)	Width-X% (Actual)	Width-X% (Required)	Width- X% (Flag)
9	12930	9.00	8.9 - 9.1		0.740	0.900	
24	145486	23.90	23.9 - 24.1		0.791	0.900	
25	19137	24.90	24.9 - 25.1		0.825	0.900	
26	21701	25.90	25.9 - 26.1		0.832	0.900	
59	29827	58.95	58.9 - 59.1		0.826	0.900	
113	20057	113.00	112.9 - 113.1		0.796	0.900	
115	57718	115.00	114.9 - 115.1		0.797	0.900	
206	33578	206.00	205.9 - 206.1		0.792	0.900	
207	27935	206.95	206.9 - 207.1		0.777	0.900	
208	69597	207.95	207.9 - 208.1		0.788	0.900	
220	0	220.15	-		0.195		

X% = 5 Integration Time [sec] = 0.1 Acquisition Time [sec] = 256.8 Y Axis = Linear

Tune Parameters

Plasma Paramters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
RF Power	1600	W	Carrier Gas	0.72	L/min	S/C Temp		2 °C
RF Matching	1.80	V	Option Gas	0.0	%	Gas Switch		Dilution Gas
Smpl Depth	9.0	mm	Nebulizer Pump	0.10	rpm	Makeup/Dilution Gas		0.42 L/min

Lenses Parameters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
Extract 1	0.0	V	Omega Lens	9.7	V	Deflect	13.4	V
Extract 2	-125.0	V	Cell Entrance	-30	V	Plate Bias	-35	V
Omega Bias	-70	V	Cell Exit	-50	V			

Cell Parameters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
Use Gas	No		OctP Bias	-8.0	V	Energy Discrimination		5.0 V
He Flow	0.0	mL/min	OctP RF	160	V			

[He]

Mass	Count (Mean)	RSD% (Actual)	RSD% (Required)
59	6180	0.20	
89	28692	0.51	
205	17022	0.30	

Mass	Replicate 1 Count	Replicate 2 Count	Replicate 3 Count	Replicate 4 Count	Replicate 5 Count
59	6166	6190	6195	6180	6170
89	28759	28691	28759	28441	28807
205	17022	17019	16940	17071	17060

Integration Time [sec] = 0.1

Tune Parameters

Plasma Paramters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
RF Power	1600	W	Carrier Gas	0.72	L/min	S/C Temp		2 °C
RF Matching	1.80	V	Option Gas	0.0	%	Gas Switch		Dilution Gas
Smpl Depth	9.0	mm	Nebulizer Pump	0.10	rpm	Makeup/Dilution Gas		0.42 L/min

Lenses Parameters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
Extract 1	0.0	V	Omega Lens	9.7	V	Deflect	0.8	V
Extract 2	-145.0	V	Cell Entrance	-40	V	Plate Bias	-60	V
Omega Bias	-85	V	Cell Exit	-60	V			

Cell Parameters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
Use Gas	Yes		OctP Bias	-18.0	V	Energy Discrimination		5.0 V
He Flow	3.9	mL/min	OctP RF	200	V			