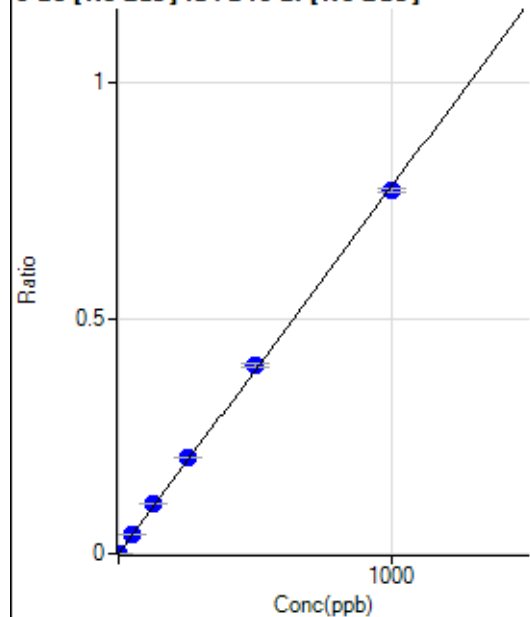


Batch Folder: D:\Agilent\ICPMH\1\DATA\P7110123-MS.b\
Analysis File: P7110123-MS.batch.bin
DA Date-Time: 2023-11-01 21:21:15
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.d	S00	2023-11-01 16:39:58
2	006CALS.d	S02	2023-11-01 16:46:34
3	007CALS.d	S03	2023-11-01 16:49:51
4	008CALS.d	S04	2023-11-01 16:53:02
5	009CALS.d	S05	2023-11-01 16:56:03
6	010CALS.d	S06	2023-11-01 16:58:59
7	011CALS.d	S07	2023-11-01 17:01:49
8	012CALS.d	S08	2023-11-01 17:04:37

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	28.89	0.0000	P	28.8
2	☐	1.000	1.067	894.48	0.0009	P	4.7
3	☐	50.000	54.504	43922.86	0.0426	P	0.9
4	☐	125.000	135.045	108704.03	0.1054	P	1.5
5	☐	250.000	262.748	203354.09	0.2051	P	0.9
6	☐	500.000	513.572	384375.08	0.4008	P	1.7
7	☐	1000.000	988.546	728250.13	0.7714	P	1.2
8	☐			587.79	0.0006	P	8.1

$$y = 7.8033\text{E-}004 * x + 2.8025\text{E-}005$$

$$R = 0.9997$$

$$DL = 0.03105$$

$$BEC = 0.03591$$

Weight: <None>

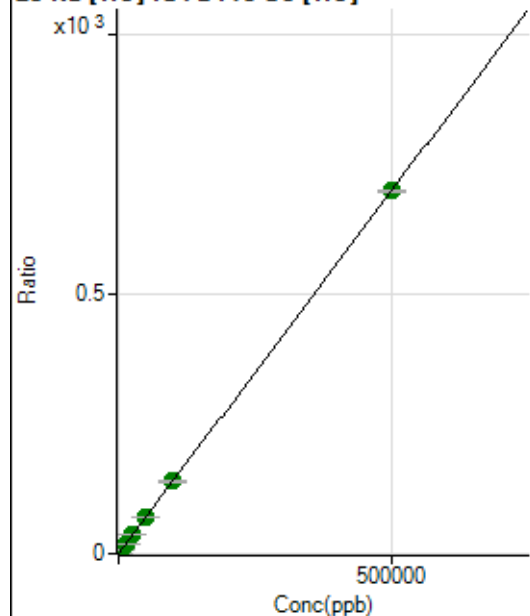
Min Conc: 0

12 C [No Gas] No available calibration points

	R _j 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	4240.62	0.0202	P	0.5
2	☐	500.000	471.130	142644.52	0.6776	P	1.2
3	☐	5000.000	5219.144	1498693.24	7.3029	A	1.1
4	☐	12500.000	13366.752	3672629.56	18.6719	A	2.6
5	☐	25000.000	25604.838	6844616.63	35.7487	A	1.2
6	☐	50000.000	50530.039	13175004.94	70.5288	A	0.8
7	☐	100000.00	99453.881	25927475.45	138.7962	A	2.2
8	☐	500000.00	500002.14	124336981.4	697.7132	A	0.8

$$y = 0.0014 * x + 0.0202$$

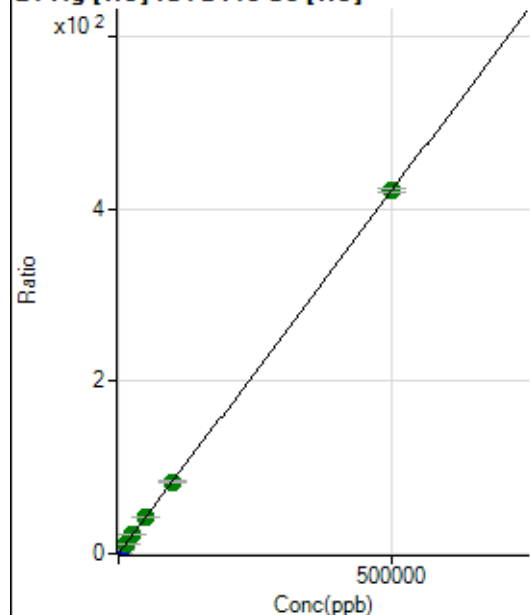
$$R = 1.0000$$

$$DL = 0.2053$$

$$BEC = 14.49$$

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	383.34	0.0018	P	7.8
2	☐	500.000	485.404	86532.44	0.4111	P	1.7
3	☐	5000.000	5369.996	929501.18	4.5293	P	0.8
4	☐	12500.000	13636.202	2261724.43	11.4985	A	2.4
5	☐	25000.000	26017.399	4200262.33	21.9371	A	1.0
6	☐	50000.000	50792.181	7999420.71	42.8248	A	1.6
7	☐	100000.00	99360.904	15649207.96	83.7732	A	2.0
8	☐	500000.00	499965.64	75117040.55	421.5237	A	1.2

$$y = 8.4310\text{E-}004 * x + 0.0018$$

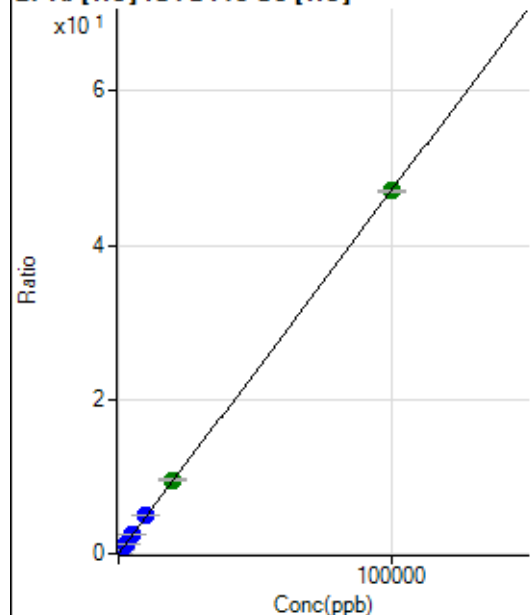
$$R = 1.0000$$

$$DL = 0.5103$$

$$BEC = 2.169$$

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	132.22	0.0006	P	14.1
2	☐	20.000	19.348	2051.27	0.0097	P	7.5
3	☐	1000.000	1075.788	104135.52	0.5074	P	1.1
4	☐	2500.000	2714.832	251682.96	1.2796	P	2.8
5	☐	5000.000	5247.421	473475.60	2.4727	P	0.1
6	☐	10000.000	10418.168	916916.52	4.9087	P	1.4
7	☐	20000.000	20206.625	1778093.15	9.5201	A	3.3
8	☐	100000.00	99898.359	8387008.49	47.0633	A	0.9

$$y = 4.7111\text{E-}004 * x + 6.3118\text{E-}004$$

$$R = 1.0000$$

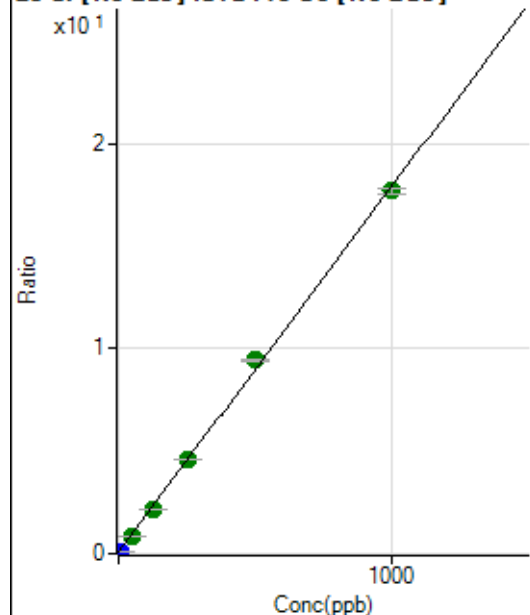
$$DL = 0.5675$$

$$BEC = 1.34$$

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	215952.59	0.0785	P	1.0
2	☐	10.000	0.254	227785.43	0.0830	P	0.7
3	☐	50.000	42.929	2248286.22	0.8440	A	0.6
4	☐	125.000	115.901	5690773.04	2.1454	A	0.5
5	☐	250.000	251.422	11598626.50	4.5621	A	0.3
6	☐	500.000	525.645	23129289.65	9.4524	A	1.0
7	☐	1000.000	988.410	43153722.41	17.7049	A	1.5
8	☐			271488.57	0.1159	P	2.1

$$y = 0.0178 * x + 0.0785$$

$$R = 0.9994$$

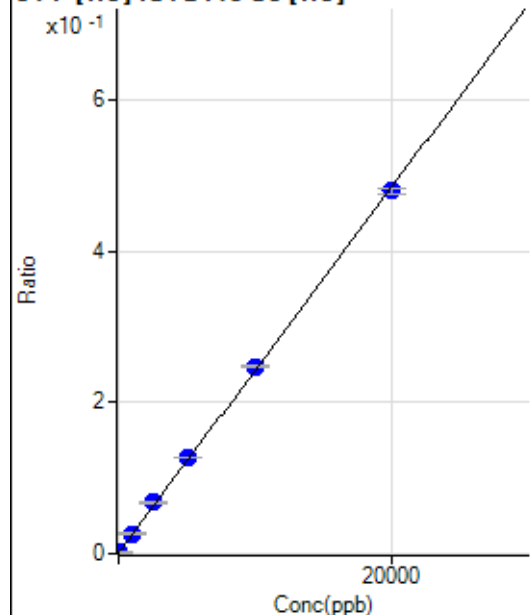
$$DL = 0.1356$$

$$BEC = 4.401$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	-14.694	131.11	0.0006	P	11.2
2	☐	0.000	14.694	281.12	0.0013	P	9.9
3	☐	1000.000	1057.349	5441.02	0.0265	P	2.5
4	☐	2500.000	2747.806	13243.58	0.0673	P	2.4
5	☐	5000.000	5229.154	24360.55	0.1272	P	1.4
6	☐	10000.000	10202.342	46200.64	0.2473	P	1.3
7	☐	20000.000	19807.697	89527.58	0.4792	P	1.9
8	☐			174.45	0.0010	P	7.3

$$y = 2.4145E-005 * x + 9.8018E-004$$

$$R = 0.9998$$

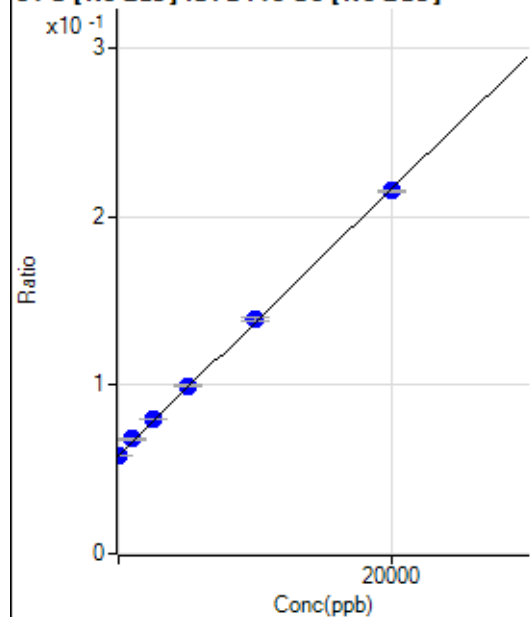
$$DL = 12.54$$

$$BEC = 40.6$$

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	-18.944	160319.78	0.0583	P	0.6
2	☐	0.000	18.944	160682.33	0.0586	P	0.4
3	☐	1000.000	1203.879	180944.96	0.0679	P	1.0
4	☐	2500.000	2681.552	211176.37	0.0796	P	0.5
5	☐	5000.000	5202.508	253052.95	0.0995	P	0.5
6	☐	10000.000	10180.277	339817.14	0.1389	P	1.4
7	☐	20000.000	19826.346	524363.04	0.2151	P	0.3
8	☐			134208.41	0.0573	P	1.2

$$y = 7.9046\text{E-}006 * x + 0.0584$$

R = 0.9998

DL = 102.9

BEC = 7390

Weight: <None>

Min Conc: 0

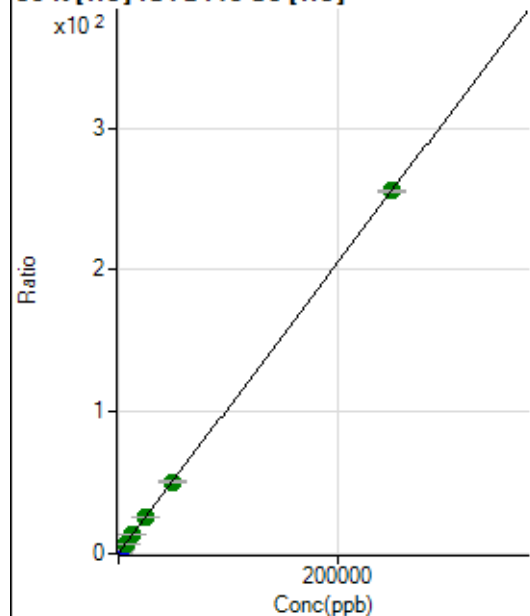
35 Cl [No Gas] No available calibration points



	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	43057.39	0.2053	P	2.5
2	☐	500.000	479.713	146412.51	0.6955	P	0.7
3	☐	2500.000	2714.100	611267.12	2.9786	P	0.9
4	☐	6250.000	6657.904	1378331.89	7.0084	A	3.4
5	☐	12500.000	12703.378	2524735.28	13.1857	A	0.8
6	☐	25000.000	24919.851	4794624.76	25.6686	A	1.7
7	☐	50000.000	49477.721	9482915.62	50.7619	A	1.8
8	☐	250000.00	250090.00	45575579.88	255.7486	A	0.7

$$y = 0.0010 * x + 0.2053$$

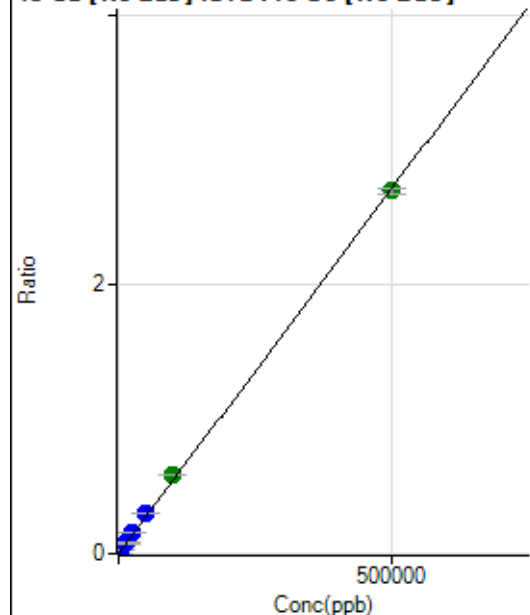
$$R = 1.0000$$

$$DL = 15.33$$

$$BEC = 200.9$$

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	460.01	0.0002	P	10.0
2	☐	500.000	466.343	7386.31	0.0027	P	2.1
3	☐	5000.000	5799.620	84087.68	0.0316	P	0.6
4	☐	12500.000	14477.569	208371.55	0.0786	P	1.1
5	☐	25000.000	28614.342	394280.97	0.1551	P	0.7
6	☐	50000.000	56100.066	743606.68	0.3039	P	1.0
7	☐	100000.00	109049.11	1439483.93	0.5906	A	0.3
8	☐	500000.00	497342.05	6305772.89	2.6929	A	1.7

$$y = 5.4143\text{E-}006 * x + 1.6716\text{E-}004$$

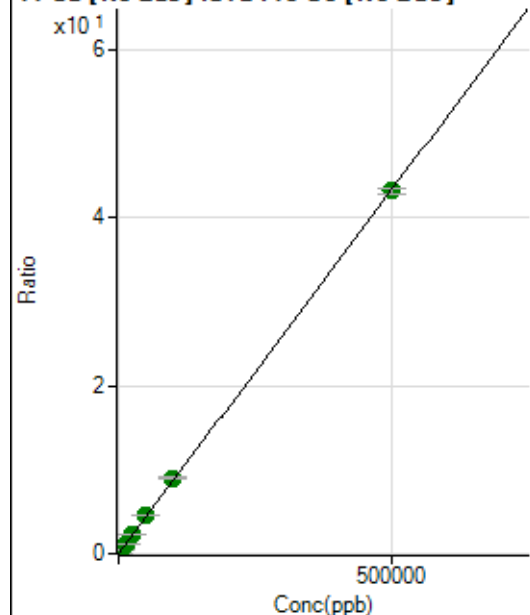
$$R = 0.9998$$

$$DL = 9.298$$

$$BEC = 30.87$$

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	6686.07	0.0024	P	1.3
2	☐	500.000	475.063	119486.00	0.0435	P	1.2
3	☐	5000.000	5418.494	1255696.29	0.4714	A	1.6
4	☐	12500.000	13257.983	3050421.55	1.1500	A	1.2
5	☐	25000.000	26356.530	5805783.39	2.2837	A	0.9
6	☐	50000.000	52268.348	11075083.17	4.5265	A	1.7
7	☐	100000.00	104060.84	21958203.84	9.0095	A	1.2
8	☐	500000.00	498870.06	101109929.6	43.1824	A	1.4

$$y = 8.6556\text{E-}005 * x + 0.0024$$

$$R = 1.0000$$

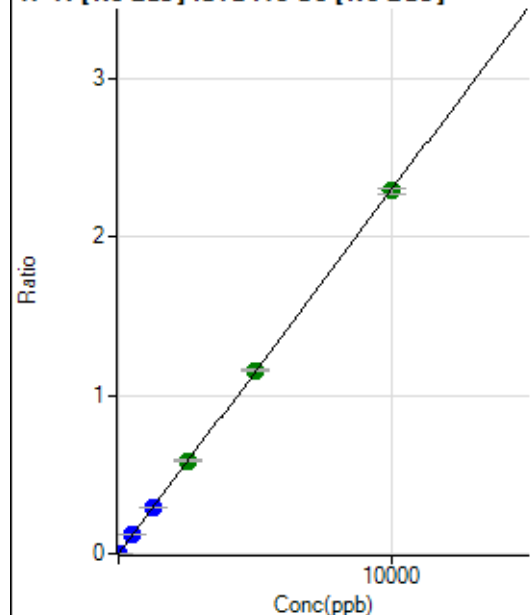
$$DL = 1.065$$

$$BEC = 28.07$$

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	70.00	0.0000	P	22.6
2	☐	5.000	4.793	3094.79	0.0011	P	4.9
3	☐	500.000	517.763	317280.93	0.1191	P	0.8
4	☐	1250.000	1288.273	786044.16	0.2963	P	0.4
5	☐	2500.000	2543.599	1487162.57	0.5851	A	1.9
6	☐	5000.000	5028.556	2829949.30	1.1566	A	1.2
7	☐	10000.000	9969.150	5588482.49	2.2930	A	1.9
8	☐			2833.63	0.0012	P	17.1

$$y = 2.3000\text{E-}004 * x + 2.5468\text{E-}005$$

$$R = 1.0000$$

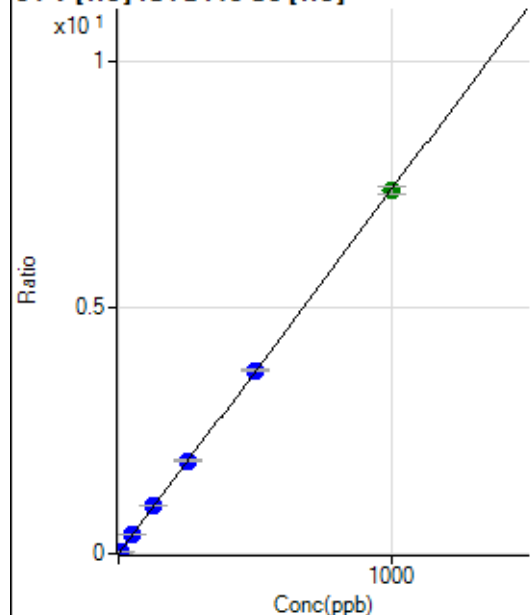
$$DL = 0.07504$$

$$BEC = 0.1107$$

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	2.22	0.0000	P	86.6
2	☐	5.000	4.559	7102.84	0.0337	P	3.2
3	☐	50.000	51.754	78589.80	0.3829	P	0.5
4	☐	125.000	132.506	192860.32	0.9804	P	2.2
5	☐	250.000	255.477	361933.80	1.8903	P	0.9
6	☐	500.000	503.152	695400.36	3.7229	P	1.7
7	☐	1000.000	996.031	1376713.01	7.3697	A	2.0
8	☐			901.15	0.0051	P	9.1

$$y = 0.0074 * x + 1.0669\text{E-}005$$

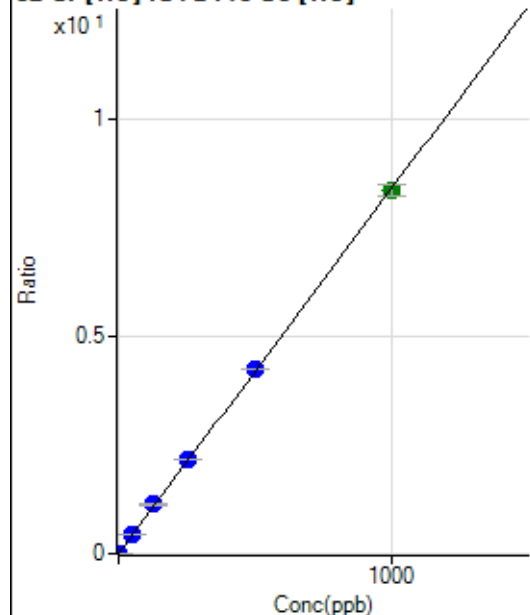
$$R = 1.0000$$

$$DL = 0.003746$$

$$BEC = 0.001442$$

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	521.12	0.0025	P	8.7
2	☐	2.000	1.920	3912.76	0.0186	P	4.7
3	☐	50.000	52.572	90999.89	0.4434	P	1.0
4	☐	125.000	134.414	222235.41	1.1299	P	2.6
5	☐	250.000	257.179	413479.03	2.1596	P	1.1
6	☐	500.000	505.840	793024.87	4.2452	P	0.7
7	☐	1000.000	993.980	1557600.48	8.3395	A	3.2
8	☐			7954.39	0.0446	P	2.8

$$y = 0.0084 * x + 0.0025$$

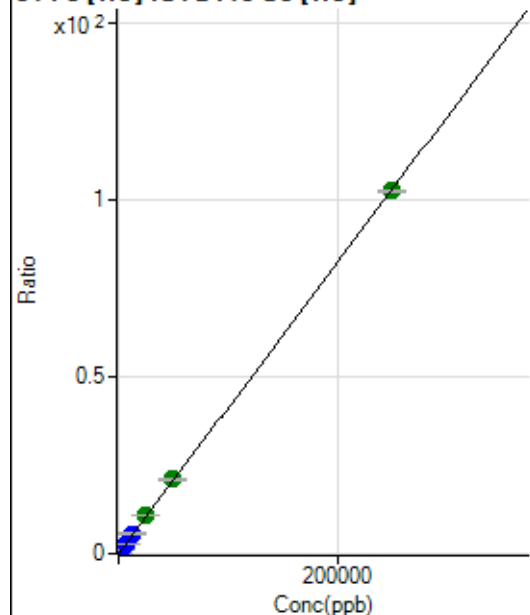
$$R = 0.9999$$

$$DL = 0.07758$$

$$BEC = 0.2962$$

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	1251.18	0.0060	P	4.4
2	☐	50.000	52.471	5795.61	0.0275	P	4.0
3	☐	2500.000	2786.913	236315.63	1.1515	P	1.2
4	☐	6250.000	7158.582	579948.23	2.9486	P	2.7
5	☐	12500.000	13849.415	1091171.92	5.6989	P	0.7
6	☐	25000.000	26265.930	2017881.03	10.8028	A	1.5
7	☐	50000.000	50991.783	3916880.92	20.9665	A	1.8
8	☐	250000.00	249581.99	18283743.89	102.5985	A	0.3

$$y = 4.1106E-004 * x + 0.0060$$

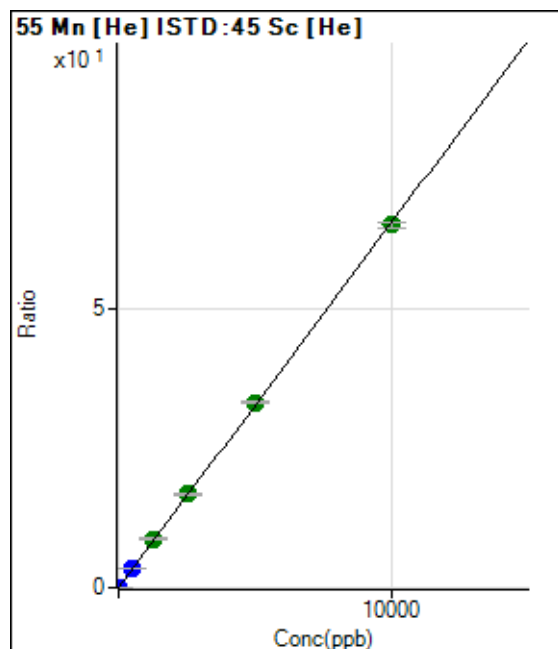
$$R = 1.0000$$

$$DL = 1.921$$

$$BEC = 14.51$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	95.56	0.0005	P	18.4
2	☐	1.000	0.934	1384.52	0.0066	P	5.5
3	☐	500.000	522.084	702107.39	3.4212	P	0.8
4	☐	1250.000	1328.056	1711588.92	8.7021	A	2.7
5	☐	2500.000	2567.375	3220841.10	16.8223	A	1.4
6	☐	5000.000	5072.139	6207963.80	33.2340	A	1.3
7	☐	10000.000	9936.226	12162275.24	65.1043	A	1.7
8	☐			7239.58	0.0406	P	1.1

$$y = 0.0066 * x + 4.5637E-004$$

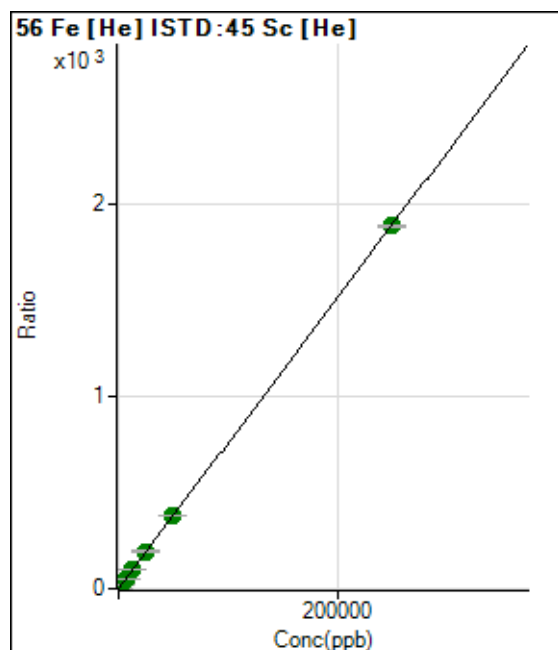
$$R = 0.9999$$

$$DL = 0.03844$$

$$BEC = 0.06965$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	10082.35	0.0481	P	1.3
2	☐	50.000	49.089	88322.99	0.4196	P	1.1
3	☐	2500.000	2635.204	4102351.05	19.9905	A	1.7
4	☐	6250.000	6759.755	10070905.82	51.2038	A	3.1
5	☐	12500.000	13054.736	18925033.33	98.8423	A	1.3
6	☐	25000.000	25693.449	36330700.57	194.4882	A	1.0
7	☐	50000.000	50258.740	71055784.50	380.3907	A	2.3
8	☐	250000.00	249837.07	336940443.8	1.890.737	A	0.3

$$y = 0.0076 * x + 0.0481$$

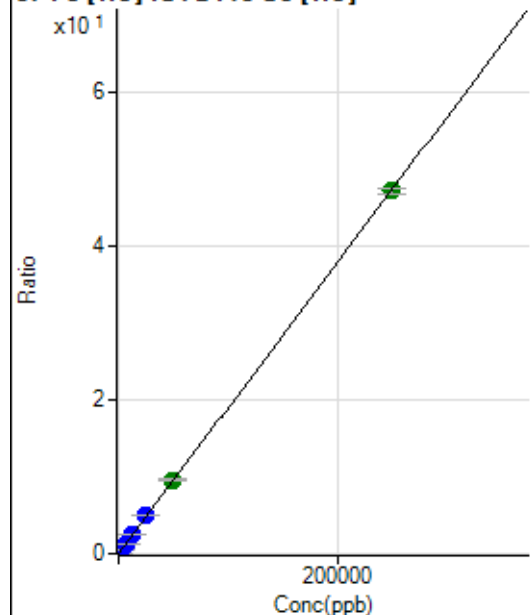
$$R = 1.0000$$

$$DL = 0.2457$$

$$BEC = 6.353$$

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	555.57	0.0026	P	3.8
2	☐	50.000	49.976	2546.91	0.0121	P	2.5
3	☐	2500.000	2751.451	107324.10	0.5230	P	0.9
4	☐	6250.000	7069.563	263497.35	1.3396	P	2.3
5	☐	12500.000	13567.248	491728.74	2.5683	P	1.5
6	☐	25000.000	26725.064	944536.90	5.0566	P	1.4
7	☐	50000.000	50627.971	1788841.66	9.5768	A	2.9
8	☐	250000.00	249625.53	8413004.11	47.2089	A	1.4

$$y = 1.8911\text{E-}004 * x + 0.0026$$

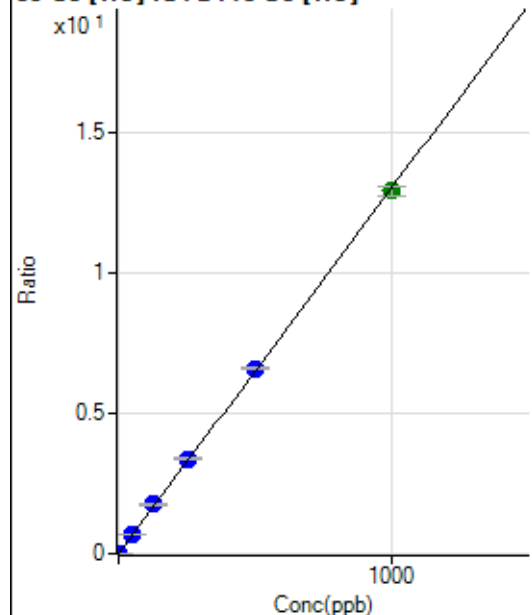
$$R = 1.0000$$

$$DL = 1.59$$

$$BEC = 14$$

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	23.33	0.0001	P	87.5
2	☐	1.000	1.011	2795.84	0.0133	P	1.6
3	☐	50.000	52.669	140818.77	0.6862	P	1.4
4	☐	125.000	135.059	346057.43	1.7595	P	2.8
5	☐	250.000	259.529	647327.23	3.3809	P	1.0
6	☐	500.000	506.833	1233300.71	6.6024	P	1.3
7	☐	1000.000	992.811	2415839.51	12.9330	A	2.3
8	☐			3517.12	0.0197	P	1.2

$$y = 0.0130 * x + 1.1157\text{E-}004$$

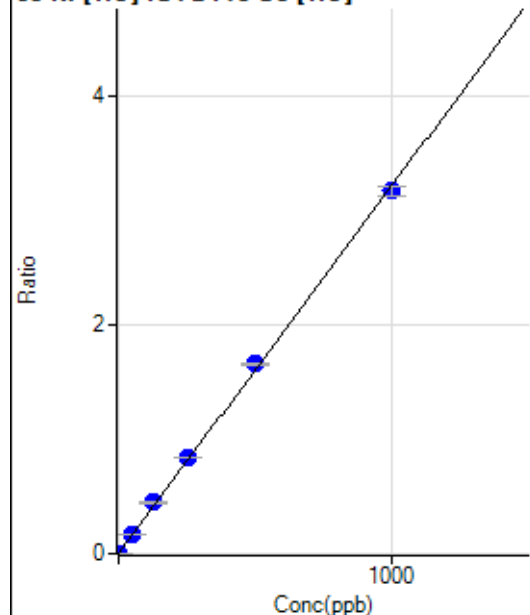
$$R = 0.9999$$

$$DL = 0.02249$$

$$BEC = 0.008565$$

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	263.34	0.0013	P	13.2
2	☐	1.000	1.063	982.26	0.0047	P	8.4
3	☐	50.000	54.418	36095.59	0.1759	P	0.0
4	☐	125.000	139.838	88507.79	0.4500	P	2.6
5	☐	250.000	262.515	161528.99	0.8436	P	1.0
6	☐	500.000	515.338	309125.97	1.6549	P	1.7
7	☐	1000.000	987.127	591929.48	3.1689	P	2.4
8	☐			2166.84	0.0122	P	4.2

$$y = 0.0032 * x + 0.0013$$

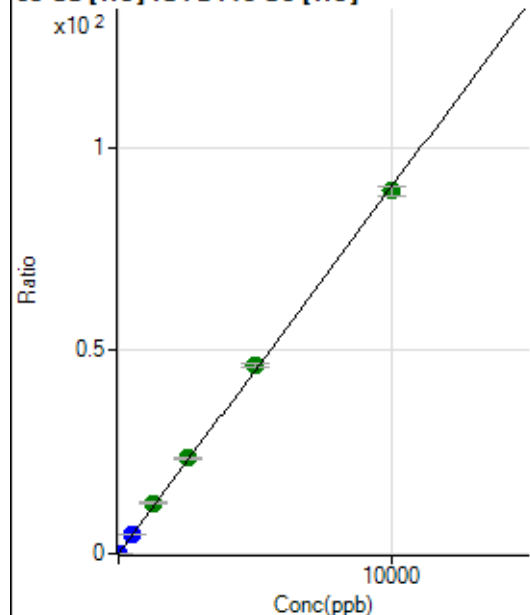
$$R = 0.9997$$

$$DL = 0.1555$$

$$BEC = 0.3917$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	668.91	0.0032	P	9.5
2	☐	2.000	1.954	4386.24	0.0208	P	1.3
3	☐	500.000	534.131	990556.32	4.8268	P	0.8
4	☐	1250.000	1385.846	2462243.47	12.5184	A	2.6
5	☐	2500.000	2604.073	4503285.04	23.5199	A	0.9
6	☐	5000.000	5130.310	8654605.22	46.3337	A	2.0
7	☐	10000.000	9890.139	16684147.53	89.3184	A	2.6
8	☐			6191.34	0.0347	P	1.7

$$y = 0.0090 * x + 0.0032$$

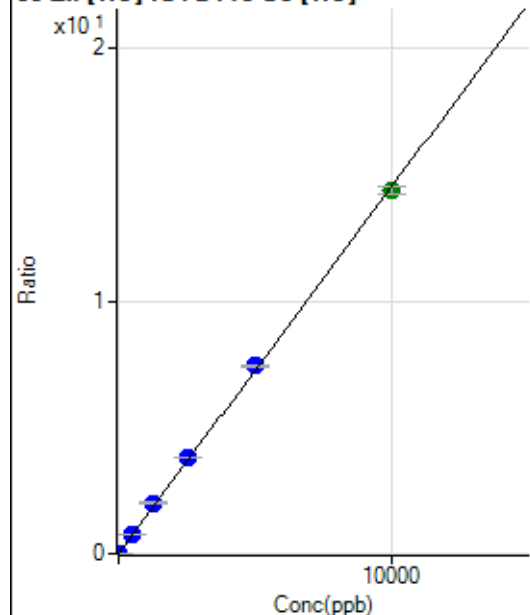
$$R = 0.9998$$

$$DL = 0.1006$$

$$BEC = 0.3534$$

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	300.01	0.0014	P	3.7
2	☐	2.000	2.152	958.93	0.0046	P	5.1
3	☐	500.000	536.695	160227.93	0.7808	P	0.7
4	☐	1250.000	1376.788	393520.85	2.0006	P	2.5
5	☐	2500.000	2630.134	731499.31	3.8206	P	1.2
6	☐	5000.000	5118.319	1388600.08	7.4337	P	1.1
7	☐	10000.000	9890.624	2683124.35	14.3634	A	2.1
8	☐			5617.76	0.0315	P	3.2

$$y = 0.0015 * x + 0.0014$$

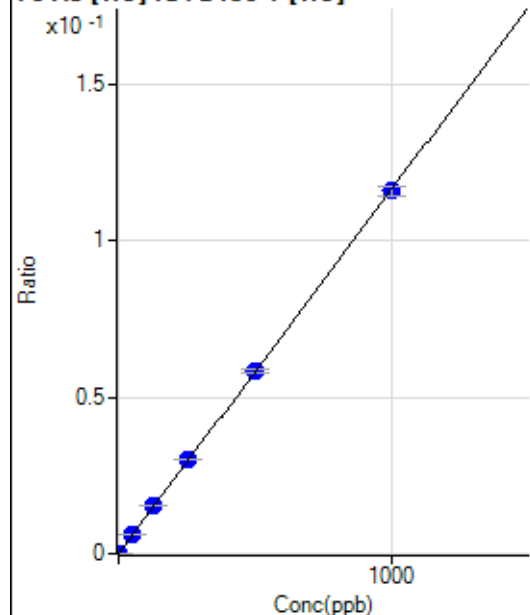
$$R = 0.9998$$

$$DL = 0.1103$$

$$BEC = 0.9852$$

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	0.00	0.0000	P	
2	☐	1.000	0.908	193.34	0.0001	P	5.8
3	☐	50.000	52.431	10667.24	0.0061	P	1.9
4	☐	125.000	131.649	26345.67	0.0153	P	3.0
5	☐	250.000	259.078	50495.50	0.0302	P	1.4
6	☐	500.000	501.332	97422.40	0.0584	P	2.7
7	☐	1000.000	996.112	188975.29	0.1159	P	2.9
8	☐			74.44	0.0000	P	12.6

$$y = 1.1640E-004 * x + 0.0000E+000$$

$$R = 0.9999$$

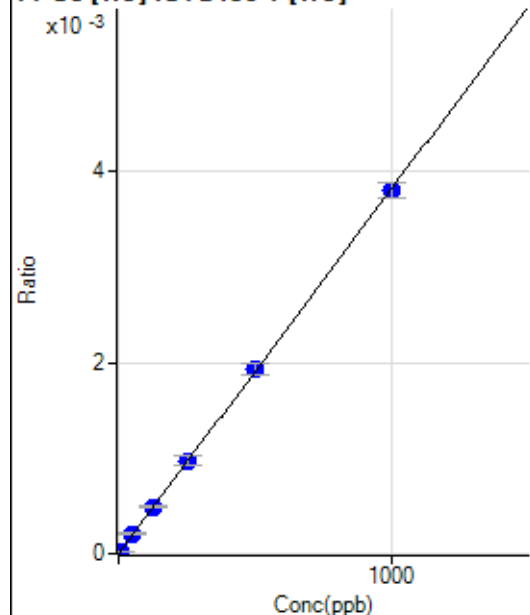
$$DL = 0$$

$$BEC = 0$$

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	4.913	34.44	0.0000	P	46.2
3	☐	50.000	55.139	367.79	0.0002	P	3.7
4	☐	125.000	128.316	842.26	0.0005	P	2.1
5	☐	250.000	254.864	1626.77	0.0010	P	9.8
6	☐	500.000	506.862	3229.27	0.0019	P	5.7
7	☐	1000.000	994.682	6186.90	0.0038	P	4.1
8	☐			38.89	0.0000	P	30.0

$$y = 3.8165\text{E-}006 * x + 0.0000\text{E+}000$$

$$R = 0.9999$$

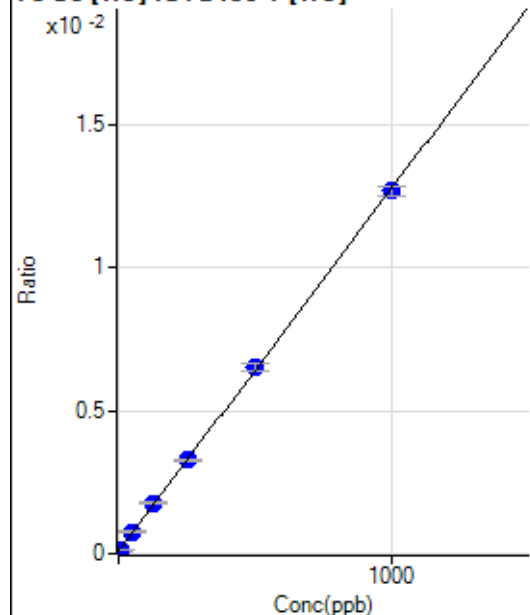
$$DL = 0$$

$$BEC = 0$$

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	143.34	0.0001	P	6.6
2	☐	5.000	4.774	256.67	0.0001	P	18.4
3	☐	50.000	54.399	1344.52	0.0008	P	6.4
4	☐	125.000	133.454	3043.68	0.0018	P	2.7
5	☐	250.000	252.990	5498.86	0.0033	P	1.8
6	☐	500.000	508.596	10887.41	0.0065	P	3.5
7	☐	1000.000	993.679	20645.58	0.0127	P	2.4
8	☐			215.56	0.0001	P	10.1

$$y = 1.2666\text{E-}005 * x + 7.9932\text{E-}005$$

$$R = 0.9999$$

$$DL = 1.248$$

$$BEC = 6.311$$

Weight: <None>

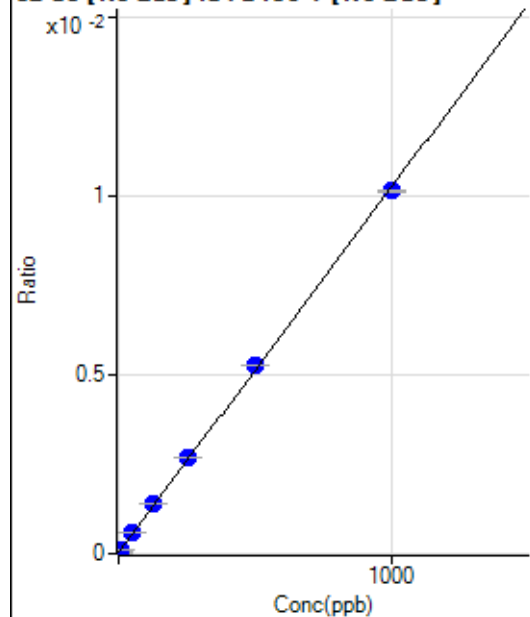
Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			26283.54		P	1.2
2	☐			26246.77		P	0.2
3	☐			26099.86		P	0.6
4	☐			24605.06		P	1.4
5	☐			23953.98		P	2.1
6	☐			23524.38		P	2.2
7	☐			23003.59		P	1.4
8	☐			24360.16		P	1.2

81 Br [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			84.45		P	16.0
2	☐			82.22		P	10.2
3	☐			54.44		P	9.4
4	☐			50.00		P	6.7
5	☐			60.00		P	14.7
6	☐			63.33		P	15.8
7	☐			76.67		P	22.6
8	☐			252.23		P	27.2

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	225.15	0.0000	P	7.9
2	☐	5.000	5.570	696.32	0.0001	P	6.8
3	☐	50.000	53.103	4559.14	0.0006	P	0.4
4	☐	125.000	132.931	11075.27	0.0014	P	1.1
5	☐	250.000	260.688	20903.28	0.0027	P	0.6
6	☐	500.000	512.848	39858.80	0.0053	P	0.5
7	☐	1000.000	989.754	77033.60	0.0101	P	0.7
8	☐			732.99	0.0001	P	4.8

$$y = 1.0205E-005 * x + 2.7811E-005$$

$$R = 0.9998$$

$$DL = 0.649$$

$$BEC = 2.725$$

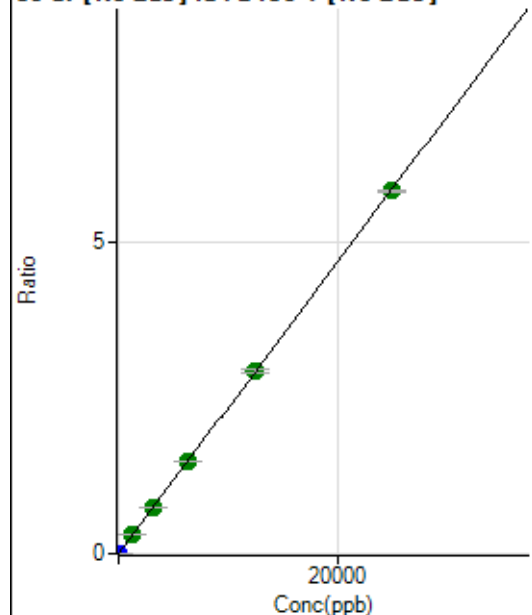
Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			107.78		P	8.9
2	☐			77.78		P	8.9
3	☐			92.22		P	14.6
4	☐			113.33		P	10.6
5	☐			103.34		P	22.6
6	☐			98.89		P	28.1
7	☐			92.22		P	29.2
8	☐			130.00		P	19.4

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	171.12	0.0000	P	21.6
2	☐	1.000	0.907	1915.70	0.0002	P	1.4
3	☐	1250.000	1278.833	2387759.06	0.2984	A	0.7
4	☐	3125.000	3189.370	5953173.38	0.7441	A	0.6
5	☐	6250.000	6337.346	11497036.91	1.4785	A	1.0
6	☐	12500.000	12572.306	22220136.89	2.9331	A	1.6
7	☐	25000.000	24932.523	44242344.34	5.8166	A	0.7
8	☐			17092.53	0.0024	P	20.5

$$y = 2.3329E-004 * x + 2.1145E-005$$

$$R = 1.0000$$

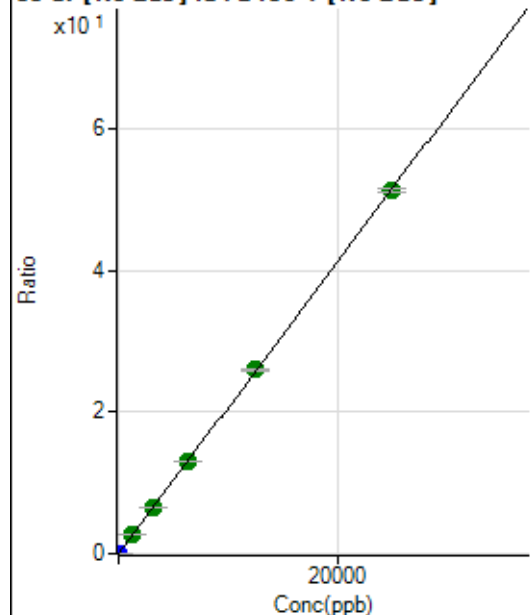
$$DL = 0.05884$$

$$BEC = 0.09064$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	295.56	0.0000	P	1.6
2	☐	1.000	0.884	15252.41	0.0019	P	1.4
3	☐	1250.000	1269.306	20893206.63	2.6109	A	0.8
4	☐	3125.000	3164.297	52073168.11	6.5087	A	1.1
5	☐	6250.000	6317.837	101053811.8	12.9951	A	0.7
6	☐	12500.000	12631.472	196838239.2	25.9816	A	0.7
7	☐	25000.000	24911.427	389735389.7	51.2401	A	1.1
8	☐			148124.86	0.0207	P	20.4

$$y = 0.0021 * x + 3.6515E-005$$

$$R = 1.0000$$

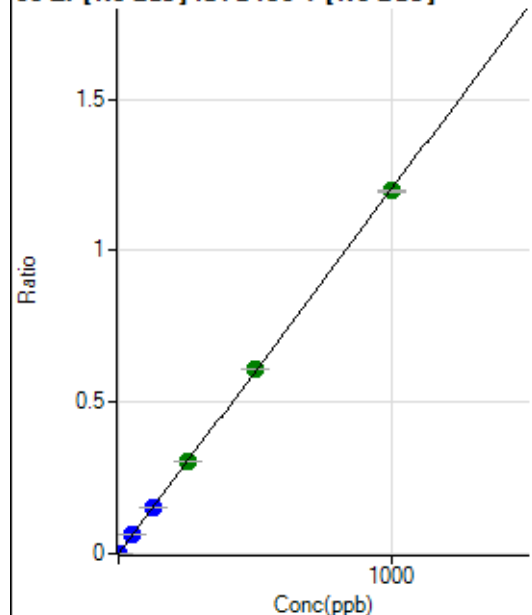
$$DL = 0.0008394$$

$$BEC = 0.01775$$

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	266.67	0.0000	P	18.3
2	☐	1.000	0.868	8858.30	0.0011	P	2.6
3	☐	50.000	50.317	484562.02	0.0606	P	0.4
4	☐	125.000	126.232	1214958.93	0.1519	P	0.7
5	☐	250.000	253.059	2367027.92	0.3044	A	1.2
6	☐	500.000	507.296	4622732.02	0.6102	A	0.4
7	☐	1000.000	995.417	9106615.84	1.1973	A	0.4
8	☐			6802.75	0.0010	P	9.6

$$y = 0.0012 * x + 3.2936E-005$$

$$R = 1.0000$$

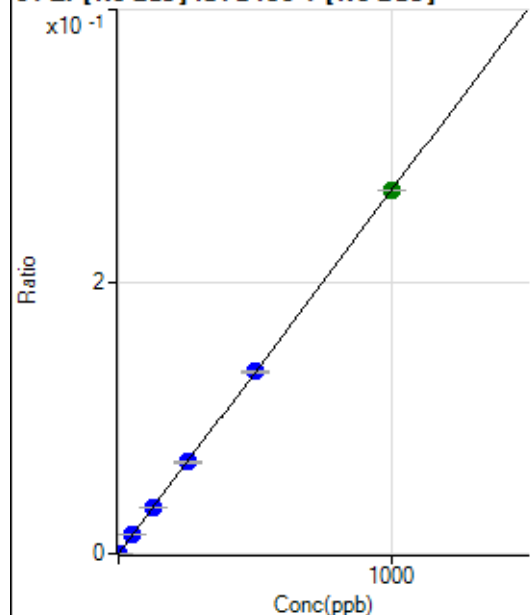
$$DL = 0.015$$

$$BEC = 0.02738$$

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	61.11	0.0000	P	22.7
2	☐	1.000	0.847	1923.48	0.0002	P	5.4
3	☐	50.000	50.489	108055.08	0.0135	P	0.8
4	☐	125.000	126.762	271134.97	0.0339	P	0.3
5	☐	250.000	251.840	523488.74	0.0673	P	1.2
6	☐	500.000	500.923	1014375.76	0.1339	P	0.6
7	☐	1000.000	998.834	2030708.34	0.2670	A	0.2
8	☐			1521.21	0.0002	P	14.4

$$y = 2.6728E-004 * x + 7.5505E-006$$

$$R = 1.0000$$

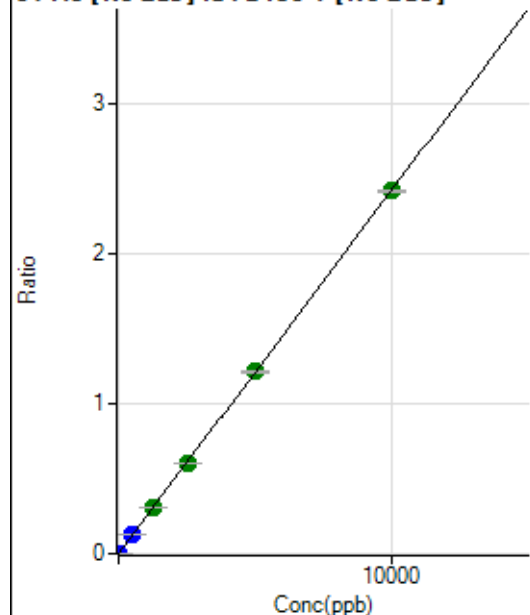
$$DL = 0.01926$$

$$BEC = 0.02825$$

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	120.00	0.0000	P	10.2
2	☐	5.000	4.965	10006.82	0.0012	P	2.0
3	☐	500.000	506.785	981393.61	0.1226	P	0.5
4	☐	1250.000	1272.339	2463106.54	0.3079	A	1.2
5	☐	2500.000	2503.662	4710866.94	0.6058	A	0.6
6	☐	5000.000	5018.335	9199009.17	1.2142	A	0.7
7	☐	10000.000	9986.786	18379811.53	2.4164	A	0.6
8	☐			10032.46	0.0014	P	15.1

$$y = 2.4196\text{E-}004 * x + 1.4827\text{E-}005$$

$$R = 1.0000$$

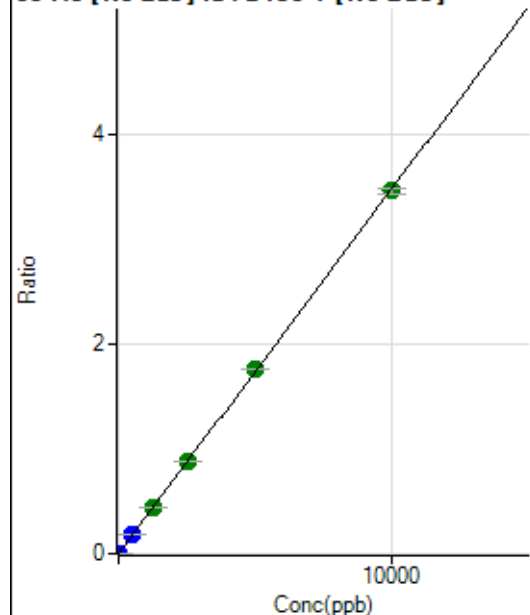
$$DL = 0.01871$$

$$BEC = 0.06128$$

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	24.44	0.0000	P	74.9
2	☐	5.000	4.352	12483.20	0.0015	P	0.7
3	☐	500.000	510.337	1420906.28	0.1776	P	0.3
4	☐	1250.000	1272.673	3542523.63	0.4428	A	1.1
5	☐	2500.000	2525.369	6832346.29	0.8786	A	0.9
6	☐	5000.000	5067.690	13357232.72	1.7631	A	0.9
7	☐	10000.000	9956.462	26348694.61	3.4640	A	1.3
8	☐			12625.65	0.0018	P	17.9

$$y = 3.4792\text{E-}004 * x + 3.0177\text{E-}006$$

$$R = 1.0000$$

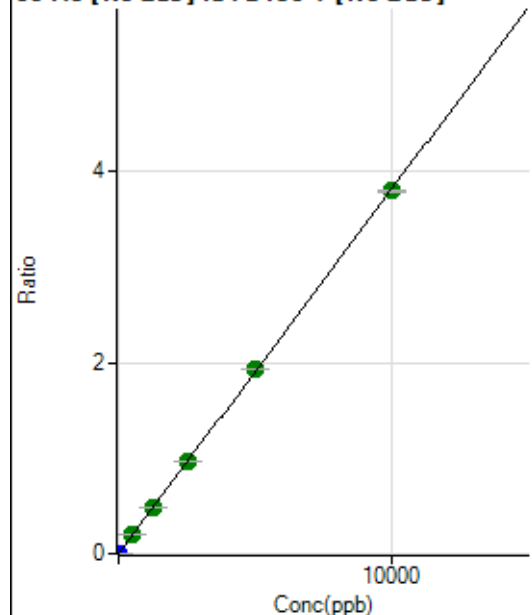
$$DL = 0.01949$$

$$BEC = 0.008674$$

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	46.67	0.0000	P	49.8
2	☐	5.000	4.345	13679.84	0.0017	P	0.5
3	☐	500.000	513.804	1567749.16	0.1959	A	0.9
4	☐	1250.000	1280.304	3905519.80	0.4882	A	1.2
5	☐	2500.000	2535.733	7518090.79	0.9668	A	1.7
6	☐	5000.000	5053.961	14598698.12	1.9270	A	0.3
7	☐	10000.000	9959.608	28883357.90	3.7974	A	0.7
8	☐			22712.37	0.0032	P	11.8

$$y = 3.8128\text{E-}004 * x + 5.7597\text{E-}006$$

$$R = 1.0000$$

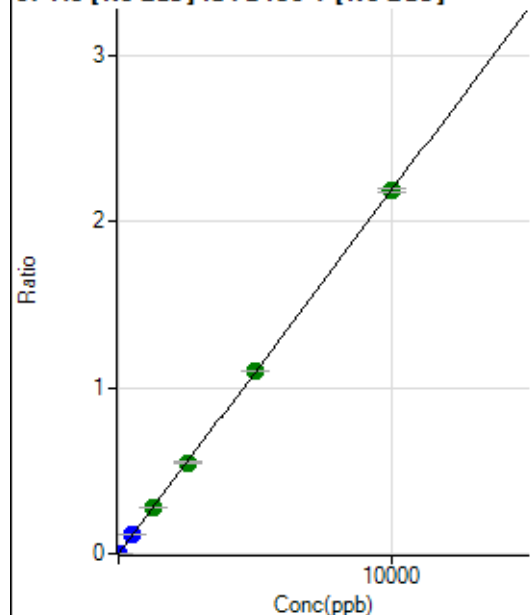
$$DL = 0.02255$$

$$BEC = 0.01511$$

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	10.00	0.0000	P	33.5
2	☐	5.000	4.296	7742.11	0.0009	P	0.9
3	☐	500.000	504.792	883707.60	0.1104	P	0.6
4	☐	1250.000	1273.242	2228448.68	0.2785	A	1.9
5	☐	2500.000	2512.932	4274674.90	0.5497	A	1.8
6	☐	5000.000	5020.886	8321283.21	1.0984	A	0.8
7	☐	10000.000	9983.179	16610896.97	2.1839	A	1.0
8	☐			8075.69	0.0011	P	17.7

$$y = 2.1876\text{E-}004 * x + 1.2359\text{E-}006$$

$$R = 1.0000$$

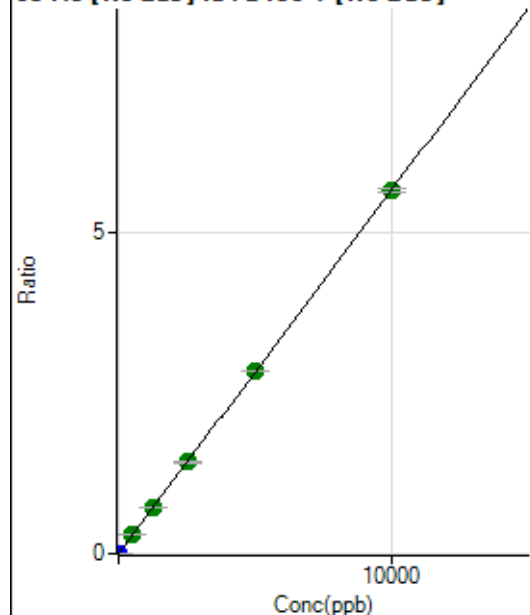
$$DL = 0.005679$$

$$BEC = 0.00565$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	42.22	0.0000	P	33.0
2	☐	5.000	4.315	20143.95	0.0024	P	2.1
3	☐	500.000	510.910	2315002.76	0.2893	A	1.3
4	☐	1250.000	1280.610	5801492.27	0.7251	A	1.1
5	☐	2500.000	2513.408	11066249.97	1.4231	A	1.3
6	☐	5000.000	5023.361	21547833.29	2.8442	A	0.5
7	☐	10000.000	9980.597	42982343.25	5.6511	A	1.2
8	☐			20471.34	0.0029	P	15.7

$$y = 5.6620\text{E-}004 * x + 5.2185\text{E-}006$$

$$R = 1.0000$$

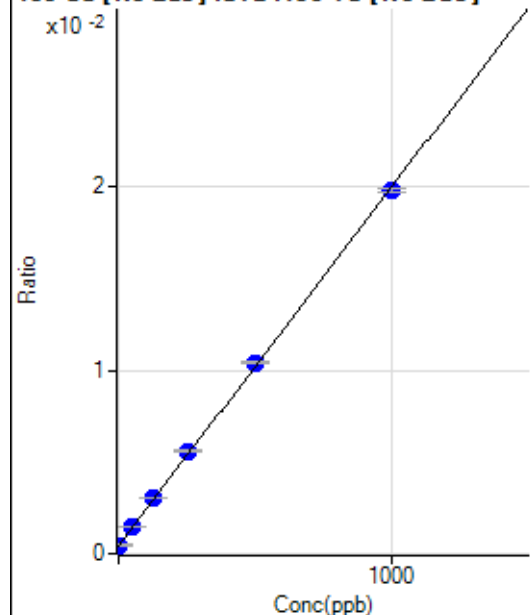
$$DL = 0.00912$$

$$BEC = 0.009217$$

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	3229.28	0.0004	P	2.7
2	☐	1.000	1.643	3499.34	0.0005	P	3.5
3	☐	50.000	54.783	11020.94	0.0015	P	0.9
4	☐	125.000	134.402	22741.20	0.0031	P	0.5
5	☐	250.000	263.582	40806.06	0.0056	P	2.1
6	☐	500.000	510.860	75568.45	0.0104	P	0.7
7	☐	1000.000	989.759	143736.02	0.0198	P	1.1
8	☐			2893.65	0.0004	P	1.5

$$y = 1.9529\text{E-}005 * x + 4.3623\text{E-}004$$

$$R = 0.9998$$

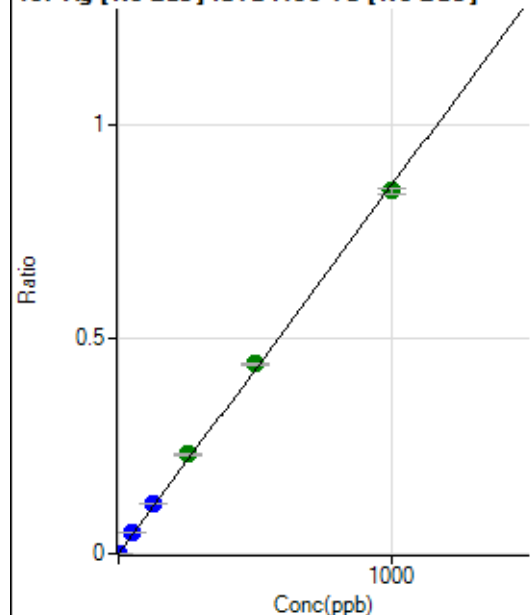
$$DL = 1.819$$

$$BEC = 22.34$$

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	60.00	0.0000	P	38.4
2	☐	1.000	0.973	6293.63	0.0008	P	1.6
3	☐	50.000	56.219	352842.62	0.0482	P	1.7
4	☐	125.000	137.880	878573.92	0.1183	P	0.5
5	☐	250.000	269.895	1691582.87	0.2315	A	2.4
6	☐	500.000	515.870	3210869.39	0.4424	A	1.0
7	☐	1000.000	985.171	6144203.03	0.8449	A	1.6
8	☐			4455.18	0.0007	P	6.7

$$y = 8.5762\text{E-}004 * x + 8.0920\text{E-}006$$

$$R = 0.9996$$

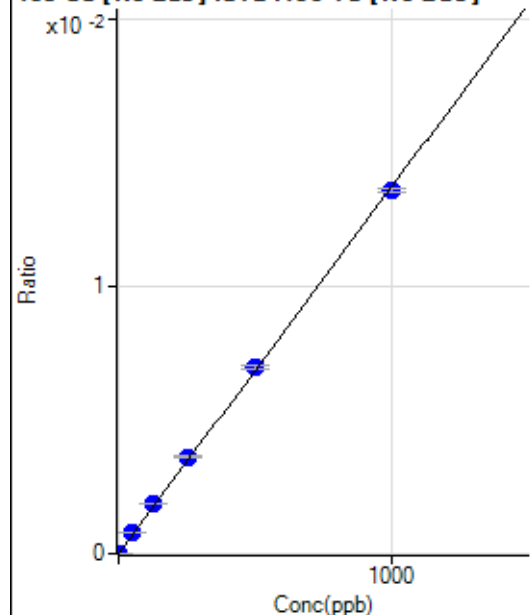
$$DL = 0.01088$$

$$BEC = 0.009435$$

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	7.78	0.0000	P	25.1
2	☐	1.000	0.877	97.78	0.0000	P	41.1
3	☐	50.000	56.510	5677.83	0.0008	P	2.6
4	☐	125.000	135.260	13788.87	0.0019	P	1.5
5	☐	250.000	264.388	26503.17	0.0036	P	1.6
6	☐	500.000	509.899	50750.61	0.0070	P	1.7
7	☐	1000.000	989.845	98722.90	0.0136	P	1.2
8	☐			92.22	0.0000	P	20.5

$$y = 1.3712\text{E-}005 * x + 1.0514\text{E-}006$$

$$R = 0.9998$$

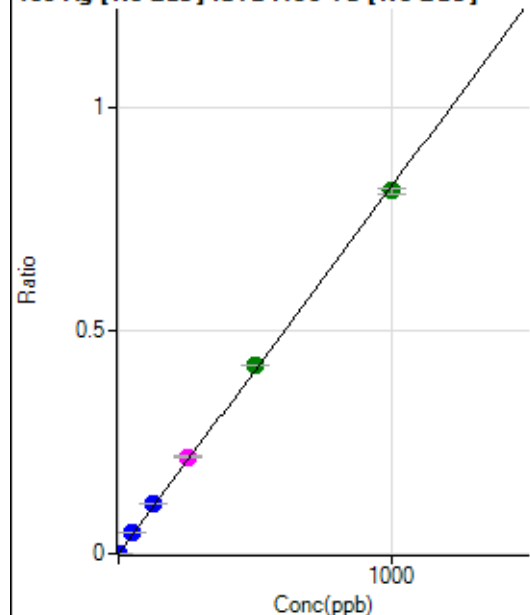
$$DL = 0.05763$$

$$BEC = 0.07667$$

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	15.55	0.0000	P	87.0
2	☐	1.000	0.963	5929.04	0.0008	P	1.8
3	☐	50.000	55.828	335728.11	0.0459	P	0.8
4	☐	125.000	137.596	840029.78	0.1131	P	0.9
5	☐	250.000	263.356	1581574.87	0.2164	M	2.0
6	☐	500.000	513.661	3063368.01	0.4221	A	0.4
7	☐	1000.000	987.965	5904045.89	0.8119	A	1.4
8	☐			4169.53	0.0006	P	11.7

$$y = 8.2175E-004 * x + 2.1009E-006$$

$$R = 0.9997$$

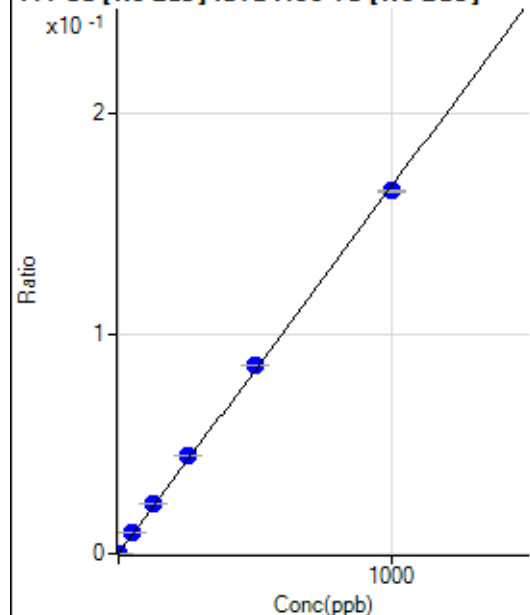
$$DL = 0.006673$$

$$BEC = 0.002557$$

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	642.63	0.0001	P	2.4
2	☐	1.000	1.051	1959.28	0.0003	P	6.0
3	☐	50.000	55.400	68269.07	0.0093	P	1.8
4	☐	125.000	136.260	169551.42	0.0228	P	0.5
5	☐	250.000	266.130	325157.75	0.0445	P	1.2
6	☐	500.000	512.780	621552.72	0.0856	P	0.5
7	☐	1000.000	987.900	1199383.80	0.1649	P	0.4
8	☐			1564.22	0.0002	P	6.6

$$y = 1.6685E-004 * x + 8.6809E-005$$

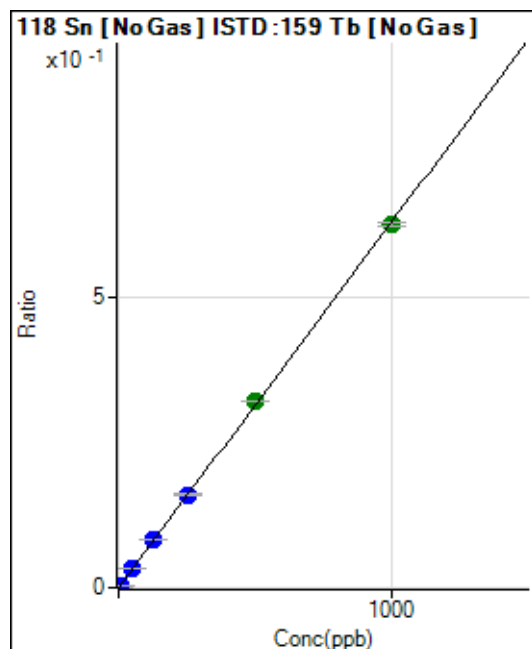
$$R = 0.9997$$

$$DL = 0.03757$$

$$BEC = 0.5203$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	453.35	0.0001	P	7.3
2	☐	5.000	4.669	22407.45	0.0030	P	1.7
3	☐	50.000	53.050	244642.80	0.0334	P	1.5
4	☐	125.000	130.570	610688.50	0.0822	P	0.8
5	☐	250.000	254.717	1171570.71	0.1603	P	1.1
6	☐	500.000	510.161	2329574.24	0.3210	A	0.6
7	☐	1000.000	992.893	4542856.60	0.6247	A	0.9
8	☐			5162.09	0.0008	P	6.3

$$y = 6.2908\text{E-}004 * x + 6.1250\text{E-}005$$

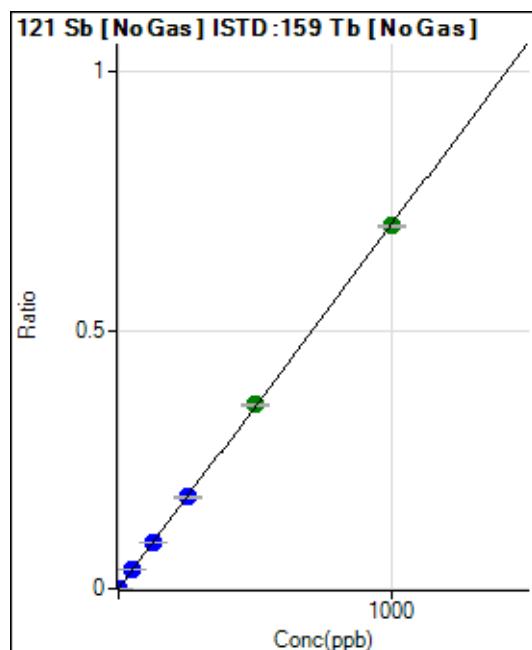
$$R = 0.9999$$

$$DL = 0.02128$$

$$BEC = 0.09736$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	23.33	0.0000	P	27.9
2	☐	2.000	1.790	9452.07	0.0013	P	1.3
3	☐	50.000	51.906	267710.93	0.0366	P	1.3
4	☐	125.000	127.738	668847.27	0.0900	P	1.1
5	☐	250.000	251.878	1297409.28	0.1775	P	1.3
6	☐	500.000	505.866	2587467.37	0.3565	A	1.3
7	☐	1000.000	996.160	5106011.52	0.7021	A	0.6
8	☐			3859.45	0.0006	P	0.9

$$y = 7.0479\text{E-}004 * x + 3.1479\text{E-}006$$

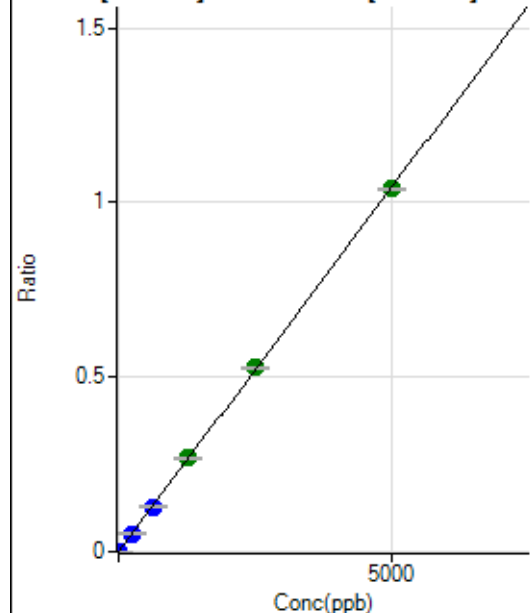
$$R = 1.0000$$

$$DL = 0.003736$$

$$BEC = 0.004466$$

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	31.11	0.0000	P	22.3
2	☐	10.000	8.919	13930.25	0.0019	P	1.4
3	☐	250.000	249.129	380131.10	0.0520	P	2.2
4	☐	625.000	617.544	956699.33	0.1288	P	1.4
5	☐	1250.000	1280.971	1952463.91	0.2671	A	0.4
6	☐	2500.000	2522.887	3818102.17	0.5261	A	0.3
7	☐	5000.000	4981.792	7555459.82	1.0389	A	0.2
8	☐			6522.68	0.0010	P	7.3

$$y = 2.0853\text{E-}004 * x + 4.2014\text{E-}006$$

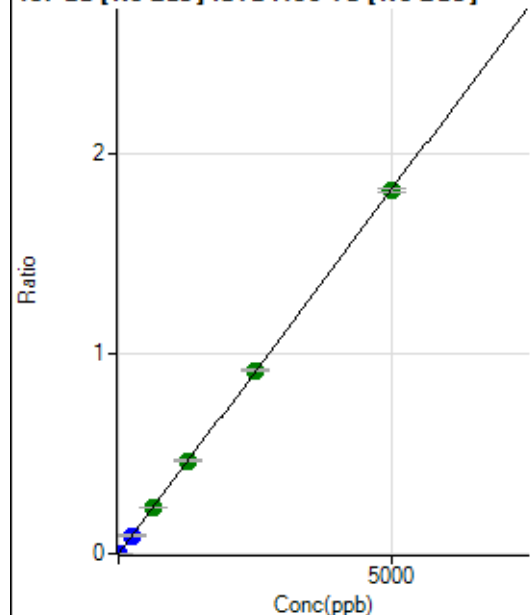
$$R = 1.0000$$

$$DL = 0.01348$$

$$BEC = 0.02015$$

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	46.67	0.0000	P	32.2
2	☐	10.000	8.992	24495.60	0.0033	P	0.4
3	☐	250.000	249.251	663584.37	0.0907	P	1.4
4	☐	625.000	640.280	1730542.39	0.2330	A	1.7
5	☐	1250.000	1276.337	3393915.68	0.4644	A	1.4
6	☐	2500.000	2518.169	6648949.76	0.9162	A	0.8
7	☐	5000.000	4982.461	13182725.08	1.8127	A	0.9
8	☐			11323.50	0.0017	P	9.9

$$y = 3.6382\text{E-}004 * x + 6.2961\text{E-}006$$

$$R = 1.0000$$

$$DL = 0.01672$$

$$BEC = 0.01731$$

Weight: <None>

Min Conc: 0

150 Nd [No Gas] No available calibration points

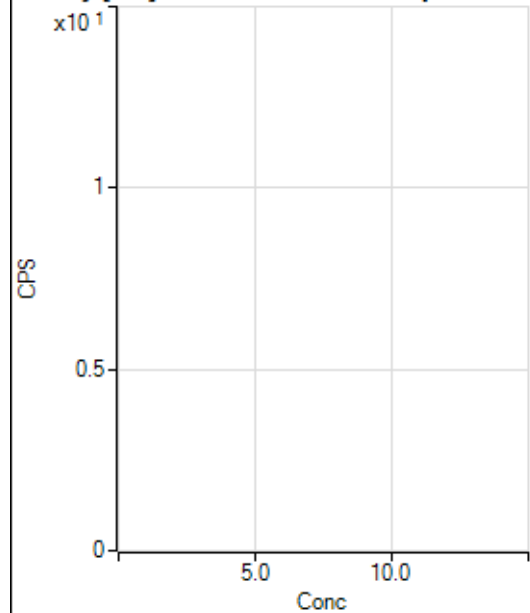
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			5.55		P	124.
2	☐			4.45		P	86.6
3	☐			51.11		P	13.6
4	☐			166.67		P	21.2
5	☐			325.56		P	7.4
6	☐			598.91		P	7.7
7	☐			1135.62		P	8.0
8	☐			284.45		P	8.0

150 Nd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2.22		P	173.
2	☐			1.11		P	173.
3	☐			14.44		P	35.3
4	☐			37.78		P	18.4
5	☐			63.33		P	45.9
6	☐			104.45		P	6.6
7	☐			224.45		P	11.2
8	☐			146.67		P	6.8

156 Dy [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2.22		P	173.
2	☐			4.45		P	86.6
3	☐			27.78		P	25.0
4	☐			65.56		P	7.8
5	☐			113.34		P	23.3
6	☐			267.78		P	3.1
7	☐			486.68		P	8.3
8	☐			1692.34		P	8.7

156 Dy [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			3.33		P	100.
2	☐			4.44		P	43.4
3	☐			23.34		P	24.7
4	☐			64.45		P	26.0
5	☐			95.56		P	25.7
6	☐			205.56		P	6.6
7	☐			388.90		P	7.3
8	☐			1083.39		P	2.2

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

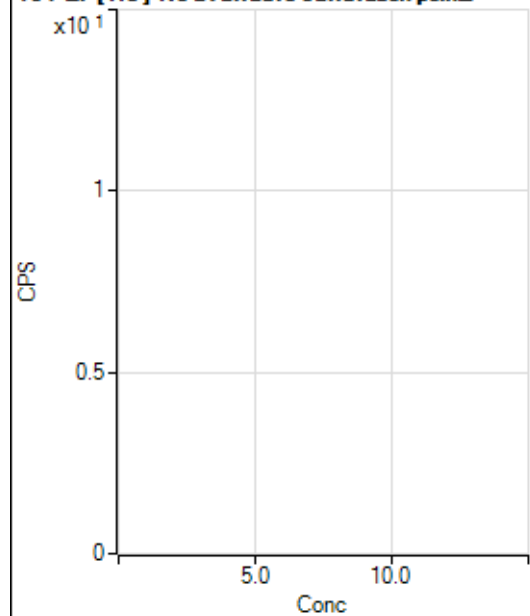
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			18.89		P	81.5
2	☐			33.33		P	26.5
3	☐			41.11		P	28.5
4	☐			63.33		P	9.1
5	☐			116.67		P	13.1
6	☐			172.23		P	4.5
7	☐			343.34		P	3.5
8	☐			1879.04		P	7.6

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			165.56		P	4.2
2	☐			158.89		P	23.2
3	☐			210.00		P	19.2
4	☐			196.67		P	28.0
5	☐			212.23		P	4.8
6	☐			298.90		P	14.2
7	☐			342.23		P	9.0
8	☐			1301.18		P	6.0

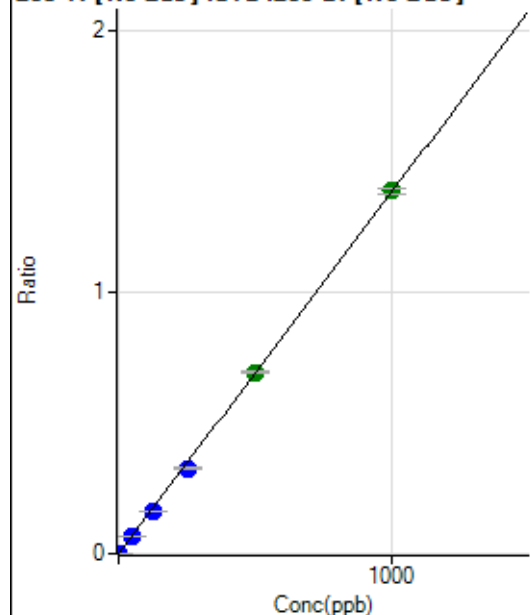
164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			43.33		P	27.7
2	☐			64.44		P	23.3
3	☐			51.11		P	10.0
4	☐			70.00		P	8.2
5	☐			74.44		P	6.8
6	☐			121.11		P	17.9
7	☐			192.23		P	12.3
8	☐			265.56		P	12.3

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			21.11		P	32.9
2	☐			30.00		P	50.9
3	☐			23.33		P	14.3
4	☐			28.89		P	78.6
5	☐			54.45		P	41.7
6	☐			53.34		P	28.6
7	☐			108.89		P	9.8
8	☐			154.45		P	10.6

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	26.67	0.0000	P	21.5
2	☐	1.000	0.815	4792.00	0.0011	P	2.2
3	☐	50.000	46.503	266013.87	0.0644	P	1.3
4	☐	125.000	116.521	670956.70	0.1613	P	0.7
5	☐	250.000	235.018	1325204.96	0.3253	P	2.7
6	☐	500.000	502.445	2822398.05	0.6954	A	0.4
7	☐	1000.000	1003.758	5589851.03	1.3892	A	1.6
8	☐			2339.12	0.0007	P	14.5

$$y = 0.0014 * x + 6.3944E-006$$

$$R = 0.9999$$

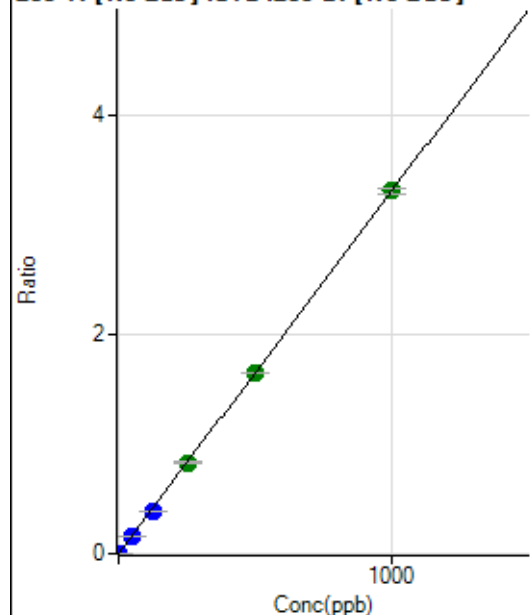
$$DL = 0.002981$$

$$BEC = 0.00462$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	63.33	0.0000	P	15.4
2	☐	1.000	0.810	11367.06	0.0027	P	2.6
3	☐	50.000	46.191	630825.38	0.1526	P	1.1
4	☐	125.000	116.393	1600089.73	0.3846	P	0.7
5	☐	250.000	250.027	3366134.33	0.8261	A	2.0
6	☐	500.000	499.449	6698014.27	1.6503	A	0.5
7	☐	1000.000	1001.535	13315686.89	3.3092	A	1.5
8	☐			5428.94	0.0016	P	13.5

$$y = 0.0033 * x + 1.5183E-005$$

$$R = 1.0000$$

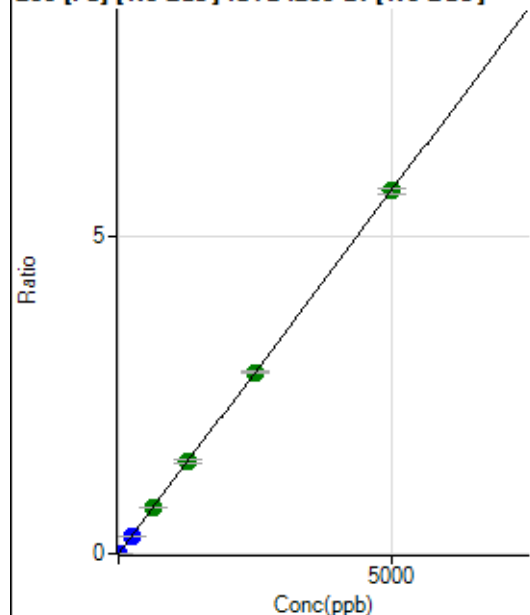
$$DL = 0.002117$$

$$BEC = 0.004595$$

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	114.45	0.0000	P	4.0
2	☐	1.000	0.786	3920.60	0.0009	P	1.6
3	☐	250.000	231.709	1096992.98	0.2654	P	0.9
4	☐	625.000	631.637	3010195.41	0.7235	A	0.3
5	☐	1250.000	1273.818	5944250.33	1.4590	A	2.9
6	☐	2500.000	2499.066	11617702.61	2.8624	A	1.7
7	☐	5000.000	4994.598	23019385.21	5.7207	A	1.3
8	☐			15837.18	0.0047	P	11.3

$$y = 0.0011 * x + 2.7447E-005$$

$$R = 1.0000$$

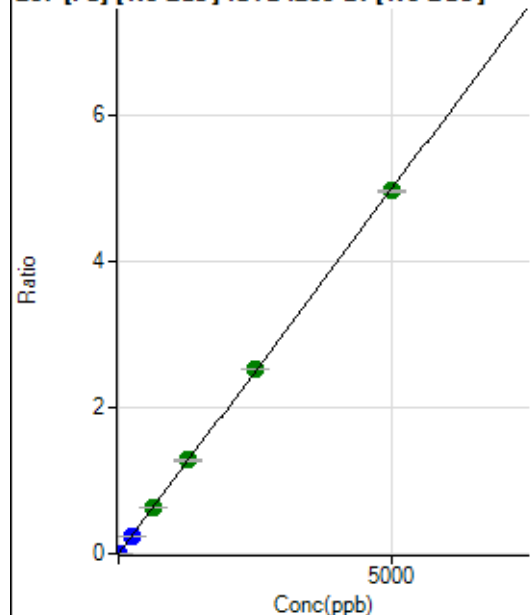
$$DL = 0.002898$$

$$BEC = 0.02396$$

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	101.11	0.0000	P	15.3
2	☐	1.000	0.825	3580.51	0.0008	P	5.4
3	☐	250.000	233.451	963021.94	0.2330	P	1.4
4	☐	625.000	640.184	2658525.52	0.6390	A	0.3
5	☐	1250.000	1280.456	5207654.51	1.2780	A	1.5
6	☐	2500.000	2531.289	10253834.15	2.5264	A	1.0
7	☐	5000.000	4975.671	19984220.40	4.9660	A	0.7
8	☐			13896.16	0.0041	P	9.9

$$y = 9.9805E-004 * x + 2.4262E-005$$

$$R = 0.9999$$

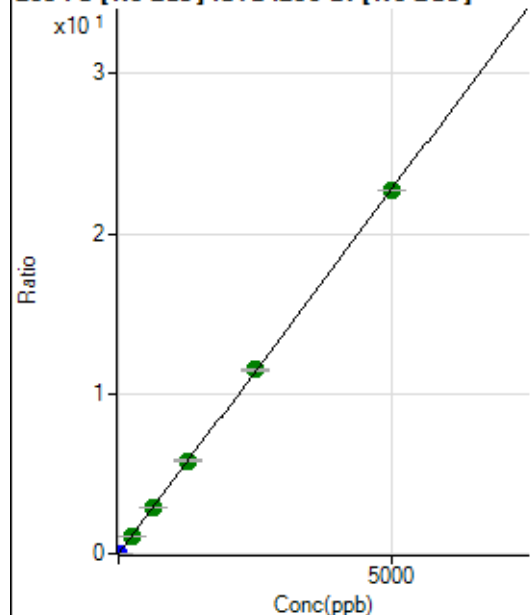
$$DL = 0.01113$$

$$BEC = 0.02431$$

Weight: <None>

Min Conc: 0

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	481.12	0.0001	P	2.3
2	☐	1.000	0.805	15968.25	0.0038	P	2.7
3	☐	250.000	243.065	4573081.03	1.1065	A	0.9
4	☐	625.000	635.763	12040276.66	2.8939	A	0.5
5	☐	1250.000	1270.749	23567421.04	5.7841	A	2.1
6	☐	2500.000	2525.243	46651050.00	11.4941	A	0.9
7	☐	5000.000	4981.193	91237143.77	22.6727	A	0.0
8	☐			63161.47	0.0188	P	10.3

$$y = 0.0046 * x + 1.1539E-004$$

$$R = 1.0000$$

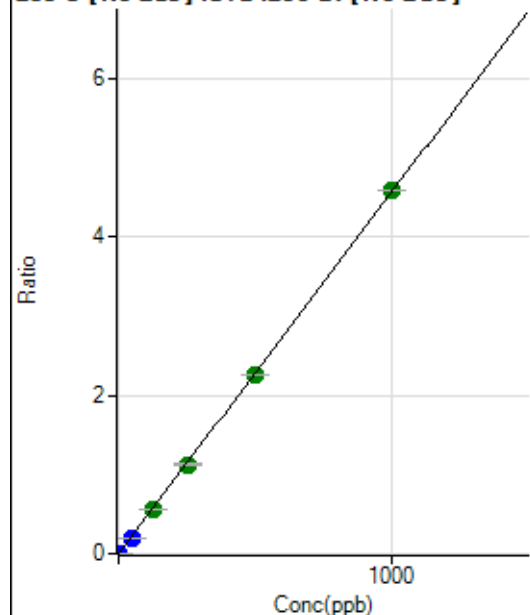
$$DL = 0.001768$$

$$BEC = 0.02535$$

Weight: <None>

Min Conc: 0

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	4.44	0.0000	P	114.
2	☐	1.000	0.764	14740.47	0.0035	P	2.6
3	☐	50.000	43.701	824408.95	0.1995	P	1.6
4	☐	125.000	121.909	2314989.91	0.5565	A	1.9
5	☐	250.000	245.855	4572225.56	1.1222	A	2.4
6	☐	500.000	496.018	9189393.13	2.2641	A	0.1
7	☐	1000.000	1003.729	18436275.98	4.5815	A	0.0
8	☐			10257.45	0.0031	P	14.3

$$y = 0.0046 * x + 1.0624E-006$$

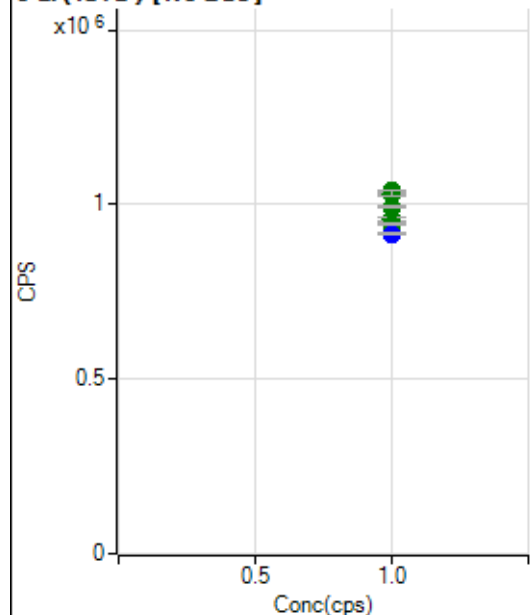
$$R = 1.0000$$

$$DL = 0.000798$$

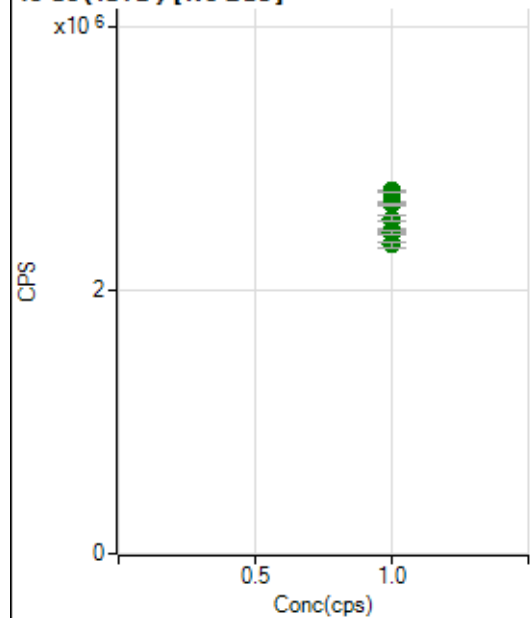
$$BEC = 0.0002327$$

Weight: <None>

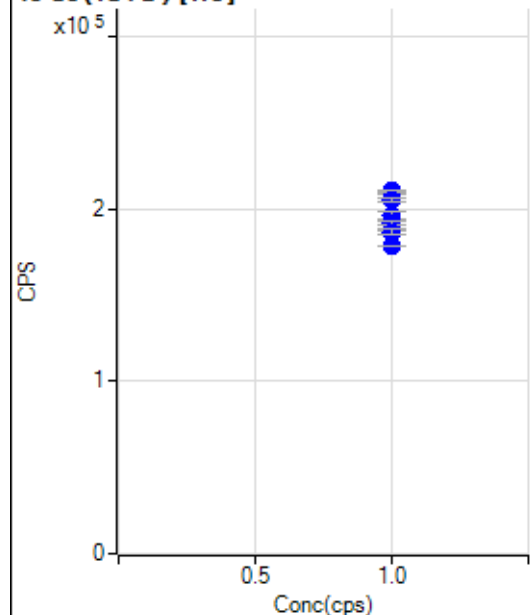
Min Conc: 0

6 Li (ISTD) [No Gas]

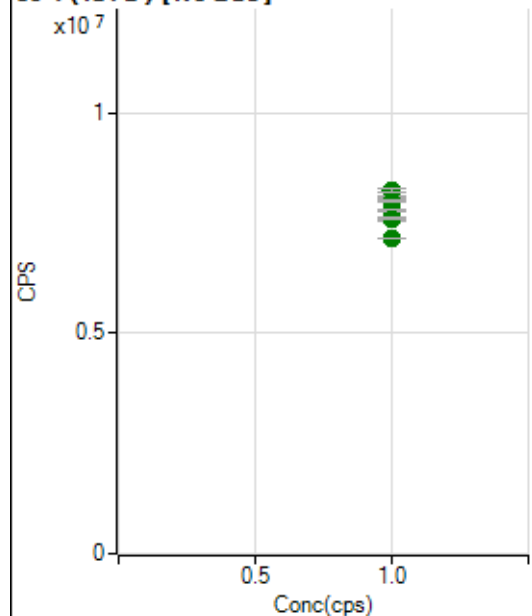
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1030121.75		A	0.8
2	☐	1.000		1038764.60		A	0.4
3	☐	1.000		1032059.15		A	0.8
4	☐	1.000		1031431.57		A	1.6
5	☐	1.000		991722.88		A	0.7
6	☐	1.000		959206.45		A	1.4
7	☐	1.000		944102.95		A	1.1
8	☐	1.000		914824.53		P	0.6

45 Sc (ISTD) [No Gas]

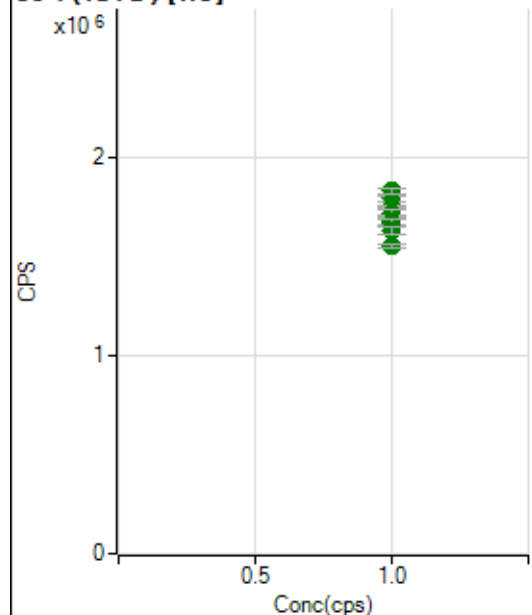
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2751653.50		A	0.8
2	☐	1.000		2743698.22		A	0.1
3	☐	1.000		2663762.41		A	0.6
4	☐	1.000		2652607.27		A	0.6
5	☐	1.000		2542410.50		A	1.6
6	☐	1.000		2446947.13		A	0.9
7	☐	1.000		2437398.92		A	0.9
8	☐	1.000		2341711.35		A	1.4

45 Sc (ISTD) [He]

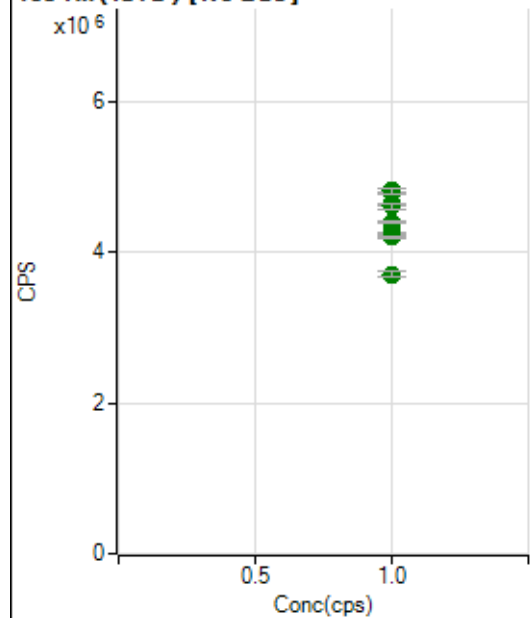
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		209743.92		P	1.4
2	☐	1.000		210516.47		P	0.6
3	☐	1.000		205227.32		P	0.7
4	☐	1.000		196763.74		P	2.2
5	☐	1.000		191481.60		P	1.3
6	☐	1.000		186814.65		P	1.2
7	☐	1.000		186859.40		P	2.2
8	☐	1.000		178206.34		P	0.2

89 Y (ISTD) [No Gas]

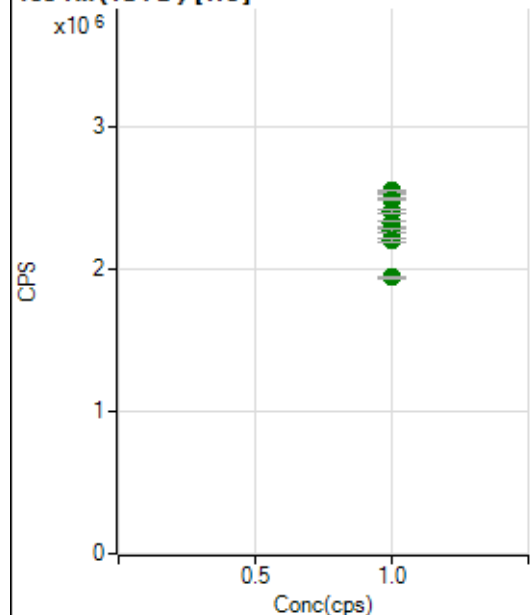
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		8094480.85		A	0.3
2	☐	1.000		8228119.25		A	1.0
3	☐	1.000		8002613.63		A	0.5
4	☐	1.000		8000809.47		A	0.5
5	☐	1.000		7776466.83		A	0.5
6	☐	1.000		7576050.09		A	0.4
7	☐	1.000		7606339.12		A	0.6
8	☐	1.000		7157637.53		A	0.3

89 Y (ISTD) [He]

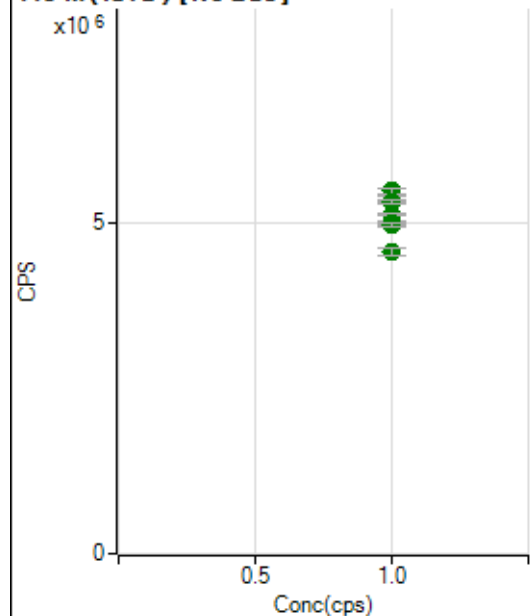
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1792148.00		A	1.6
2	☐	1.000		1829037.61		A	1.4
3	☐	1.000		1747972.72		A	0.7
4	☐	1.000		1719947.44		A	2.1
5	☐	1.000		1674689.45		A	2.1
6	☐	1.000		1670109.26		A	2.1
7	☐	1.000		1630689.19		A	2.6
8	☐	1.000		1549651.16		A	1.6

103 Rh (ISTD) [No Gas]

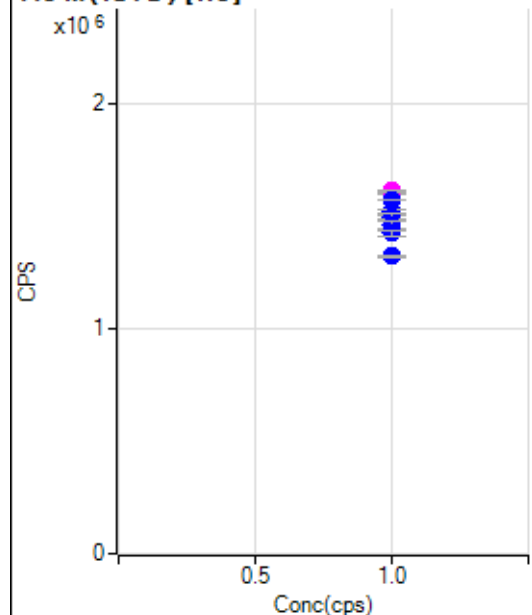
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4787480.70		A	0.4
2	☐	1.000		4816716.46		A	1.6
3	☐	1.000		4634915.21		A	0.8
4	☐	1.000		4610855.21		A	1.8
5	☐	1.000		4401695.38		A	0.8
6	☐	1.000		4253902.16		A	0.7
7	☐	1.000		4208390.39		A	0.4
8	☐	1.000		3705498.10		A	2.1

103 Rh (ISTD) [He]

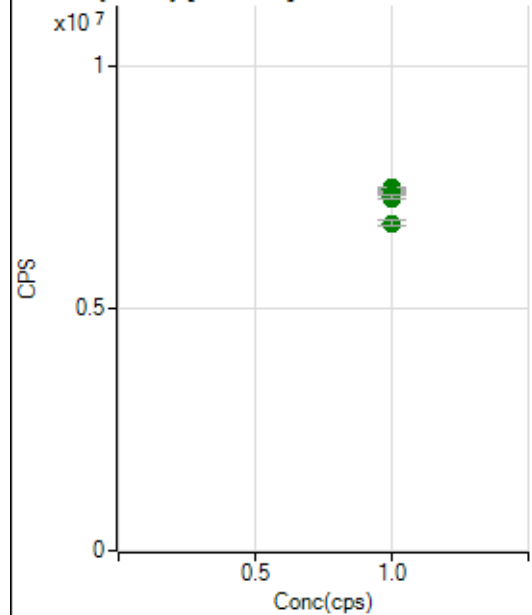
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2536596.18		A	1.0
2	☐	1.000		2547908.23		A	0.7
3	☐	1.000		2491471.84		A	0.6
4	☐	1.000		2404203.02		A	1.3
5	☐	1.000		2316102.65		A	1.5
6	☐	1.000		2273318.73		A	1.1
7	☐	1.000		2206423.21		A	1.3
8	☐	1.000		1939114.66		A	1.0

115 In (ISTD) [No Gas]

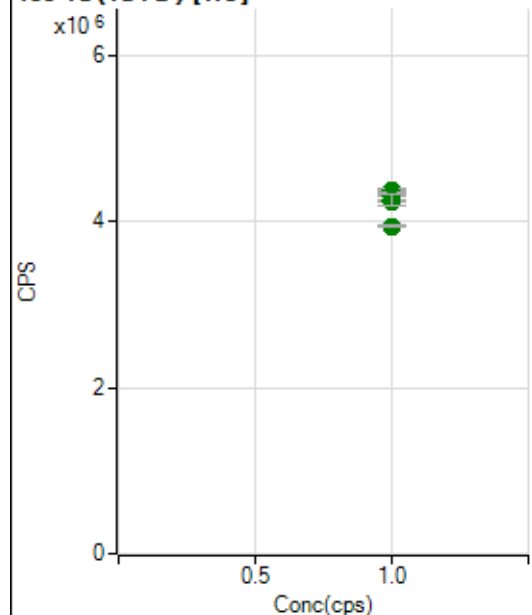
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5431000.34		A	0.7
2	☐	1.000		5493941.54		A	1.4
3	☐	1.000		5343390.99		A	0.6
4	☐	1.000		5337146.92		A	1.0
5	☐	1.000		5138487.08		A	0.2
6	☐	1.000		5011940.47		A	0.9
7	☐	1.000		4977217.87		A	1.0
8	☐	1.000		4574490.05		A	2.1

115 In (ISTD) [He]

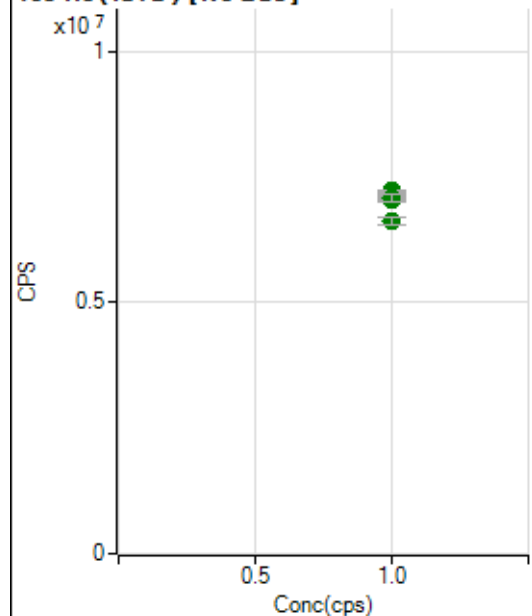
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1597059.46		M	0.5
2	☐	1.000		1611031.08		M	0.8
3	☐	1.000		1569561.57		P	0.3
4	☐	1.000		1517050.76		P	1.8
5	☐	1.000		1497338.90		P	1.5
6	☐	1.000		1458555.88		P	2.3
7	☐	1.000		1423188.02		P	1.8
8	☐	1.000		1319556.58		P	0.4

159 Tb (ISTD) [No Gas]

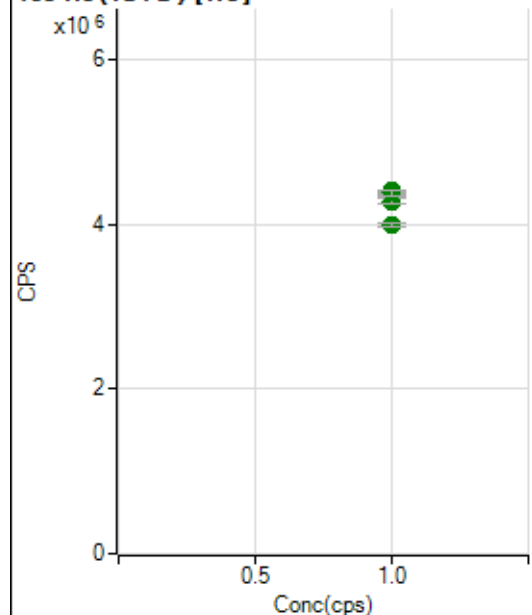
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7403714.61		A	0.8
2	☐	1.000		7472964.19		A	0.4
3	☐	1.000		7318254.27		A	1.5
4	☐	1.000		7429614.26		A	1.0
5	☐	1.000		7309159.89		A	1.2
6	☐	1.000		7257385.45		A	0.0
7	☐	1.000		7272795.10		A	1.0
8	☐	1.000		6735272.26		A	1.7

159 Tb (ISTD) [He]

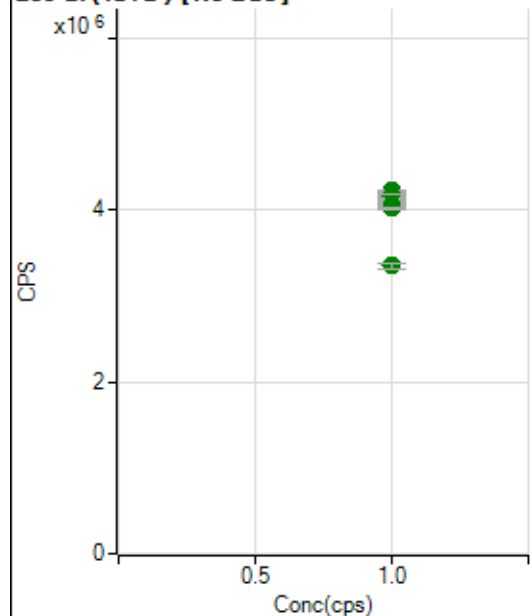
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4341511.46		A	1.6
2	☐	1.000		4366322.16		A	1.4
3	☐	1.000		4332949.14		A	0.6
4	☐	1.000		4269038.44		A	2.0
5	☐	1.000		4295157.33		A	2.5
6	☐	1.000		4233049.24		A	1.6
7	☐	1.000		4258830.11		A	3.0
8	☐	1.000		3942869.53		A	0.7

165 Ho (ISTD) [No Gas]

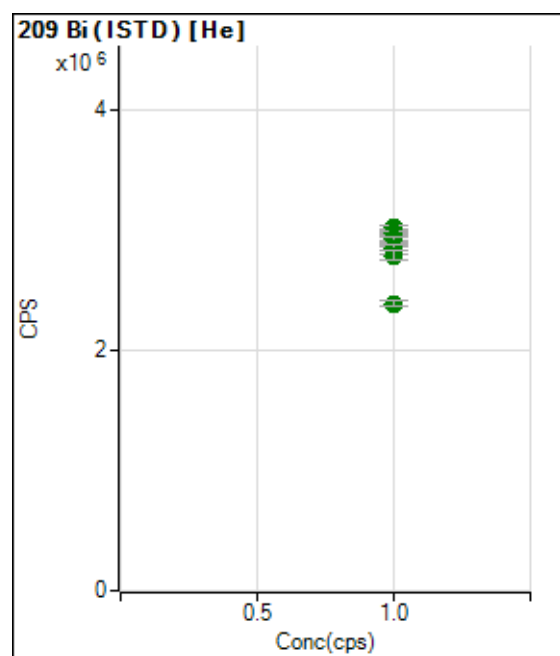
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7207936.35		A	0.5
2	☐	1.000		7223999.96		A	0.1
3	☐	1.000		7053030.31		A	1.2
4	☐	1.000		7211481.91		A	0.7
5	☐	1.000		7100344.62		A	0.5
6	☐	1.000		7067931.21		A	0.8
7	☐	1.000		7090616.15		A	2.0
8	☐	1.000		6614498.58		A	2.2

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4376140.35		A	0.8
2	☐	1.000		4407251.18		A	0.7
3	☐	1.000		4403749.87		A	0.6
4	☐	1.000		4353677.82		A	0.8
5	☐	1.000		4348301.98		A	1.4
6	☐	1.000		4282954.00		A	1.7
7	☐	1.000		4383485.94		A	1.8
8	☐	1.000		3998921.71		A	1.0

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4169302.58		A	0.5
2	☐	1.000		4224572.33		A	0.5
3	☐	1.000		4133464.31		A	1.9
4	☐	1.000		4160686.43		A	1.2
5	☐	1.000		4075634.73		A	2.0
6	☐	1.000		4058818.66		A	0.6
7	☐	1.000		4024090.32		A	0.7
8	☐	1.000		3354464.22		A	2.0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2983401.97		A	1.2
2	☐	1.000		3016588.32		A	1.7
3	☐	1.000		2971905.03		A	1.3
4	☐	1.000		2884843.12		A	1.7
5	☐	1.000		2923850.06		A	1.6
6	☐	1.000		2839395.03		A	2.9
7	☐	1.000		2788530.46		A	2.5
8	☐	1.000		2386182.13		A	2.2

US EPA Tune Check Report

Operator Name Jaswal

Acq/Data Batch D:\Agilent\ICPMH\1\DATA\IP7110123-MS.b

Acq. Date-Time 2023-11-01 11:22:11

Report Comment ---

Instrument Name G8403A JP14410463

[No Gas]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
9		5526	55263.98			2.385	5.000
24		32233	322330.94			2.310	5.000
25		4138	41382.55			2.059	5.000
26		4703	47027.22			2.239	5.000
59		42218	422182.48			2.175	5.000
113		6627	66270.51			2.314	5.000
115		81366	813655.61			2.303	5.000
206		16986	169860.74			2.108	5.000
207		15013	150132.67			1.993	5.000
208		35993	359927.45			2.222	5.000
220		0	1.10			81.312	

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

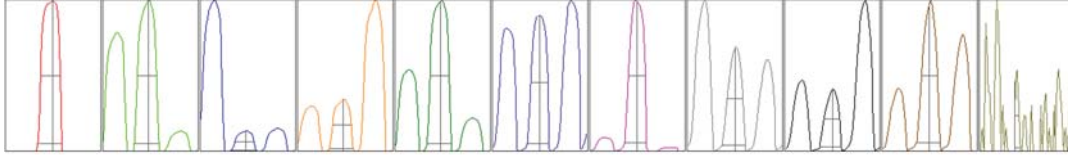
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	5475	5598	5631	5610	5317
24	31376	32579	32768	32955	31488
25	4041	4157	4201	4233	4058
26	4616	4755	4765	4811	4566
59	41573	42884	42854	42864	40917
113	6506	6766	6697	6744	6423
115	81040	83071	82343	82095	78277
206	16658	17263	17268	17204	16537
207	14821	15194	15226	15247	14579
208	35468	36559	36408	36682	34846

US EPA Tune Check Report

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

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	9143.16	9.00	8.90 - 9.10	
24	55111.09	23.95	23.90 - 24.10	
25	7170.38	24.95	24.90 - 25.10	
26	8165.52	25.95	25.90 - 26.10	
59	71488.86	58.95	58.90 - 59.10	
113	12613.38	113.00	112.90 - 113.10	
115	156826.06	115.00	114.90 - 115.10	
206	35248.68	206.05	205.90 - 206.10	
207	31087.07	207.05	206.90 - 207.10	
208	73626.69	208.00	207.90 - 208.10	
220	0.30	219.65	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.62	0.763	0.900	
24	0.61	0.780	0.900	
25	0.60	0.772	0.900	
26	0.59	0.761	0.900	
59	0.61	0.780	0.900	
113	0.53	0.695	0.900	
115	0.52	0.704	0.900	
206	0.49	0.735	0.900	
207	0.50	0.688	0.900	
208	0.50	0.754	0.900	
220	0.14	0.194		

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode --- Nebulizer Gas 0.82 L/min Dilution Gas 0.40 L/min

US EPA Tune Check Report

RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.80 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	9.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	8.3 V	Deflect	15.2 V
Extract 2	-105.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-60 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	---	OctP RF	200 V		

QP Parameters

Mass Gain	132	Axis Gain	0.9973	QP Bias	-3.0 V
Mass Offset	130	Axis Offset	0.11		

Hardware Settings

Torch

Torch H	-1.0 mm	Torch V	0.8 mm
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EM

Discriminator	4.6 mV	Analog HV	2296 V	Pulse HV	1351 V
---------------	--------	-----------	--------	----------	--------

[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		12913	129130.84			0.418	
89		18776	187758.01			0.283	
205		17784	177842.30			0.760	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	12914	12952	12961	12914	12825
89	18745	18833	18815	18783	18702
205	17794	17742	18010	17662	17713

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.82 L/min	Dilution Gas	0.40 L/min
RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.80 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	9.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	8.8 V	Deflect	2.2 V
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US EPA Tune Check Report

Extract 2	-105.0 V	Cell Entrance	-40 V	Plate Bias	-60 V
Omega Bias	-55 V	Cell Exit	-60 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	3.9 mL/min	OctP Bias	-18.0 V		
H2 Flow	---	OctP RF	190 V		

QP Parameters

Mass Gain	132	Axis Gain	0.9973	QP Bias	-13.0 V
Mass Offset	130	Axis Offset	0.11		

Hardware Settings

Torch

Torch H	-1.0 mm	Torch V	0.8 mm
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EM

Discriminator	4.6 mV	Analog HV	2296 V	Pulse HV	1351 V
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