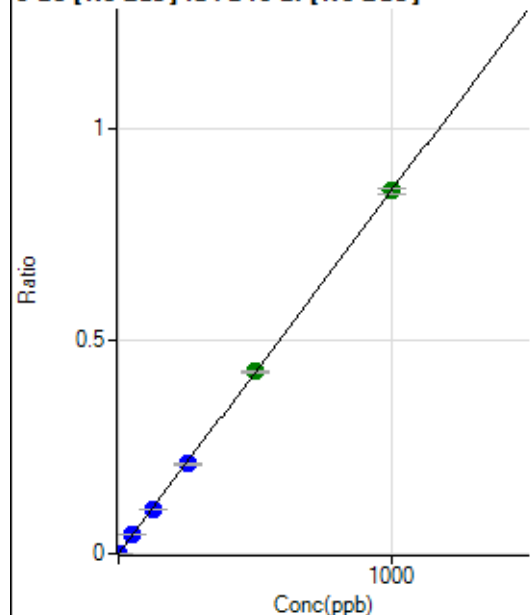


Batch Folder: D:\Agilent\ICPMH\1\DATA\P7042522MS.b\
Analysis File: P7042522MS.batch.bin
DA Date-Time: 2022-04-25 19:00:51
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	003CALB.d	S00	2022-04-25 11:38:46
2	004CALS.d	S02	2022-04-25 11:41:40
3	005CALS.d	S03	2022-04-25 11:44:32
4	006CALS.d	S04	2022-04-25 11:47:20
5	007CALS.d	S05	2022-04-25 11:50:04
6	008CALS.d	S06	2022-04-25 11:52:51
7	009CALS.d	S07	2022-04-25 11:55:36
8	010CALS.d	S08	2022-04-25 11:58:23

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	45.55	0.0000	P	10.4
2	☐	1.000	1.038	2704.71	0.0009	P	5.8
3	☐	50.000	51.423	128912.43	0.0439	P	3.0
4	☐	125.000	123.147	317045.52	0.1052	P	1.9
5	☐	250.000	246.884	635623.78	0.2108	P	0.9
6	☐	500.000	502.505	1278498.32	0.4291	A	1.2
7	☐	1000.000	999.687	2501292.81	0.8536	A	1.6
8	☐			264.45	0.0001	P	5.5

$$y = 8.5387\text{E-}004 * x + 1.5329\text{E-}005$$

$$R = 1.0000$$

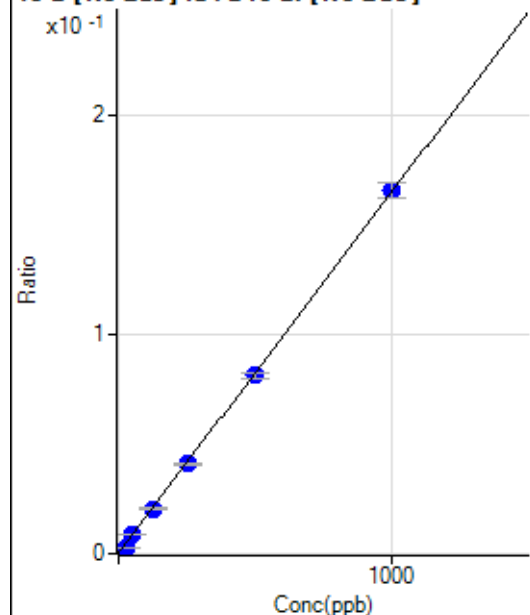
$$DL = 0.005577$$

$$BEC = 0.01795$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	475.02	0.0002	P	10.3
2	☐	25.000	16.991	8875.00	0.0030	P	6.1
3	☐	50.000	52.134	25696.83	0.0088	P	3.1
4	☐	125.000	124.041	62111.00	0.0206	P	1.2
5	☐	250.000	247.779	123610.20	0.0410	P	2.0
6	☐	500.000	492.841	242436.29	0.0814	P	3.1
7	☐	1000.000	1004.348	485295.16	0.1657	P	4.4
8	☐			13725.84	0.0050	P	9.7

$$y = 1.6478\text{E-}004 * x + 1.5989\text{E-}004$$

$$R = 0.9999$$

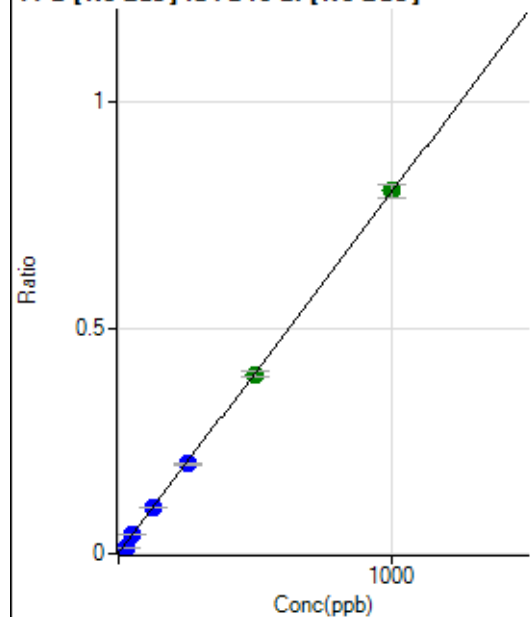
$$DL = 0.2994$$

$$BEC = 0.9703$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	2180.77	0.0007	P	13.4
2	☐	25.000	16.435	41679.05	0.0139	P	5.6
3	☐	50.000	50.818	121654.19	0.0414	P	1.5
4	☐	125.000	125.278	304709.59	0.1011	P	0.9
5	☐	250.000	246.817	598228.32	0.1984	P	2.0
6	☐	500.000	494.819	1182753.80	0.3970	A	3.0
7	☐	1000.000	1003.525	2356415.63	0.8043	A	3.9
8	☐			66856.24	0.0245	P	10.7

$$y = 8.0077\text{E-}004 * x + 7.3447\text{E-}004$$

$$R = 0.9999$$

$$DL = 0.3688$$

$$BEC = 0.9172$$

Weight: <None>

Min Conc: 0

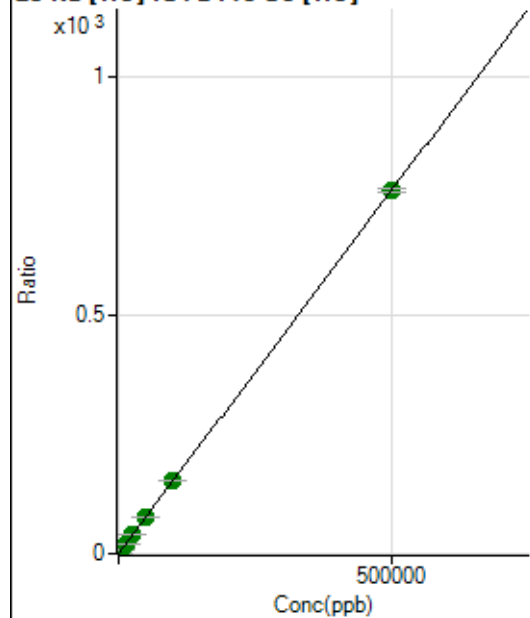
12 C [No Gas] No available calibration points



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐						
2	☐						
3	☐						
4	☐						
5	☐						
6	☐						
7	☐						
8	☐						

12 C [He] No available calibration points

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

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	27185.25	0.0421	P	1.5
2	☐	500.000	493.264	524857.13	0.7925	P	0.9
3	☐	5000.000	5093.071	5131460.18	7.7910	A	0.5
4	☐	12500.000	12864.802	12749464.41	19.6154	A	0.7
5	☐	25000.000	25569.744	25115884.36	38.9454	A	0.4
6	☐	50000.000	50993.409	49087781.65	77.6266	A	1.1
7	☐	100000.00	101500.64	98767231.84	154.4714	A	0.1
8	☐	500000.00	499562.00	496818918.51	760.1064	A	1.1

$$y = 0.0015 * x + 0.0421$$

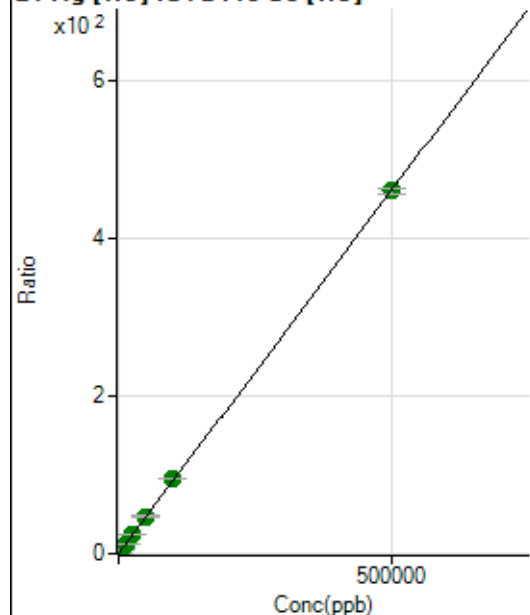
$$R = 1.0000$$

$$DL = 1.269$$

$$BEC = 27.64$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	324.08	0.0005	P	16.2
2	☐	500.000	506.058	309303.27	0.4670	P	0.6
3	☐	5000.000	5225.580	3173305.57	4.8180	A	1.1
4	☐	12500.000	12992.246	7785095.31	11.9781	A	1.3
5	☐	25000.000	25968.829	15439578.58	23.9413	A	0.9
6	☐	50000.000	51469.401	30004710.16	47.4503	A	0.6
7	☐	100000.00	102418.75	60372057.83	94.4207	A	0.8
8	☐	500000.00	499306.30	300870199.32	460.3128	A	1.4

$$y = 9.2190\text{E-}004 * x + 5.0184\text{E-}004$$

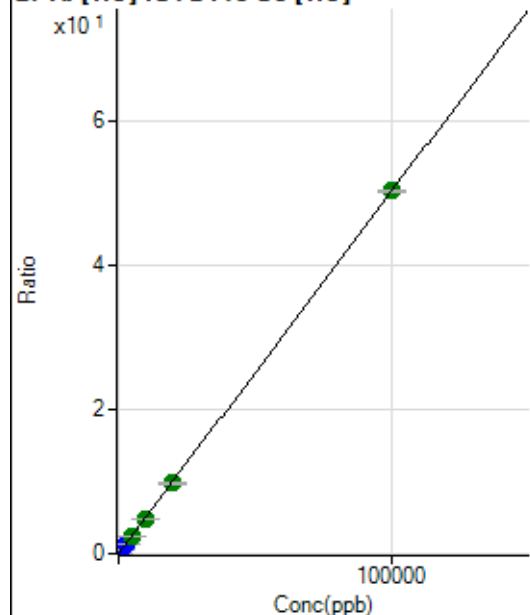
$$R = 1.0000$$

$$DL = 0.2641$$

$$BEC = 0.5444$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	118.52	0.0002	P	10.9
2	☐	20.000	19.900	6734.93	0.0102	P	2.0
3	☐	1000.000	977.287	323116.68	0.4906	P	0.1
4	☐	2500.000	2413.635	787311.06	1.2114	P	1.3
5	☐	5000.000	4954.528	1603440.67	2.4864	A	0.8
6	☐	10000.000	9736.716	3089571.19	4.8861	A	1.1
7	☐	20000.000	19455.134	6242651.76	9.7628	A	1.2
8	☐	100000.00	100139.96	32847969.02	50.2507	A	0.4

$$y = 5.0180\text{E-}004 * x + 1.8324\text{E-}004$$

$$R = 1.0000$$

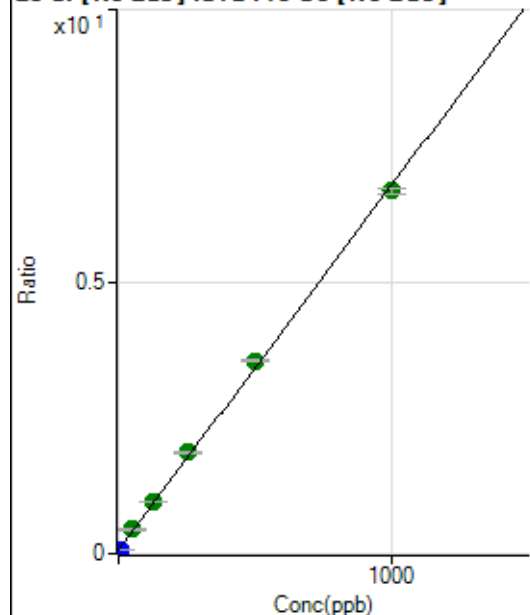
$$DL = 0.1193$$

$$BEC = 0.3652$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	522250.67	0.0674	P	0.5
2	☐	10.000	1.511	611421.38	0.0775	P	1.3
3	☐	50.000	56.621	3396385.27	0.4470	A	3.1
4	☐	125.000	133.766	7362476.90	0.9642	A	0.7
5	☐	250.000	267.048	13994199.27	1.8577	A	0.5
6	☐	500.000	519.591	26845432.55	3.5508	A	1.5
7	☐	1000.000	984.601	51838979.63	6.6682	A	1.8
8	☐			1315453.65	0.1720	A	4.1

$$y = 0.0067 * x + 0.0674$$

$$R = 0.9994$$

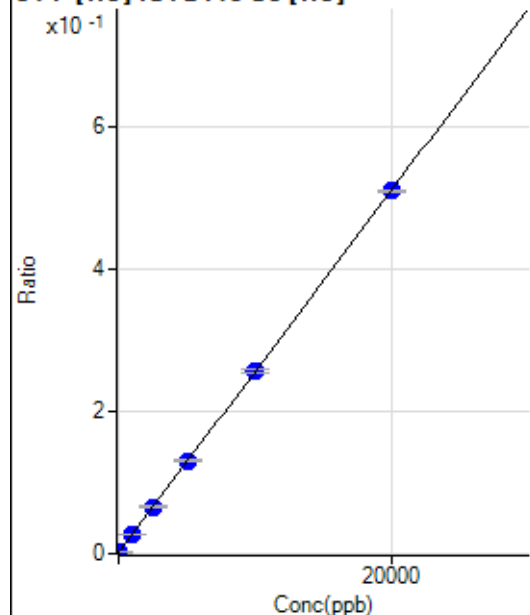
$$DL = 0.1511$$

$$BEC = 10.06$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	-8.672	711.15	0.0011	P	15.1
2	☐	0.000	8.672	1019.51	0.0015	P	18.8
3	☐	1000.000	1031.169	18130.56	0.0275	P	2.9
4	☐	2500.000	2530.041	42657.31	0.0656	P	1.5
5	☐	5000.000	5060.172	83798.90	0.1299	P	2.1
6	☐	10000.000	10028.584	162025.79	0.2562	P	1.7
7	☐	20000.000	19965.351	325343.16	0.5088	P	0.5
8	☐			719.48	0.0011	P	5.3

$$y = 2.5419E-005 * x + 0.0013$$

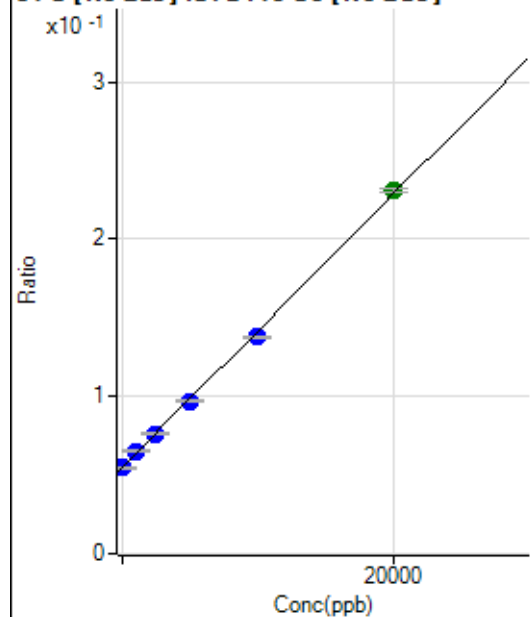
$$R = 1.0000$$

$$DL = 26.94$$

$$BEC = 51.93$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	41.912	428740.48	0.0553	P	0.2
2	☐	0.000	-41.912	430622.86	0.0546	P	1.9
3	☐	1000.000	1197.299	496591.46	0.0654	P	3.4
4	☐	2500.000	2435.930	581026.78	0.0761	P	1.2
5	☐	5000.000	4843.833	730433.37	0.0970	P	1.2
6	☐	10000.000	9544.176	1041181.67	0.1377	P	0.7
7	☐	20000.000	20265.098	1793252.21	0.2306	A	0.9
8	☐			341013.98	0.0446	P	0.2

$$y = 8.6684\text{E-}006 * x + 0.0550$$

R = 0.9995

DL = 198.2

BEC = 6343

Weight: <None>

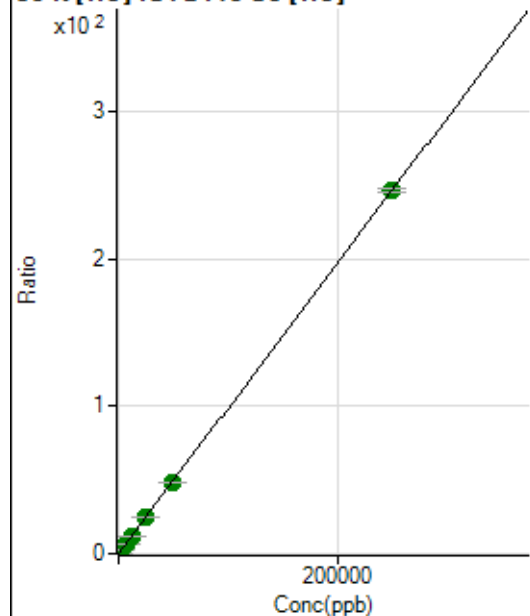
Min Conc: 0

35 Cl [No Gas] No available calibration points

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

35 Cl [He] No available calibration points

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

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	67025.65	0.1037	P	1.2
2	☐	500.000	504.208	397064.29	0.5996	P	0.9
3	☐	2500.000	2487.289	1679330.16	2.5498	A	1.1
4	☐	6250.000	6182.635	4019505.90	6.1841	A	0.8
5	☐	12500.000	12230.461	7823797.31	12.1319	A	0.4
6	☐	25000.000	24562.904	15340670.48	24.2603	A	0.4
7	☐	50000.000	49200.750	31003755.90	48.4907	A	0.5
8	☐	250000.00	250218.83	160913409.15	246.1840	A	0.9

$$y = 9.8346\text{E-}004 * x + 0.1037$$

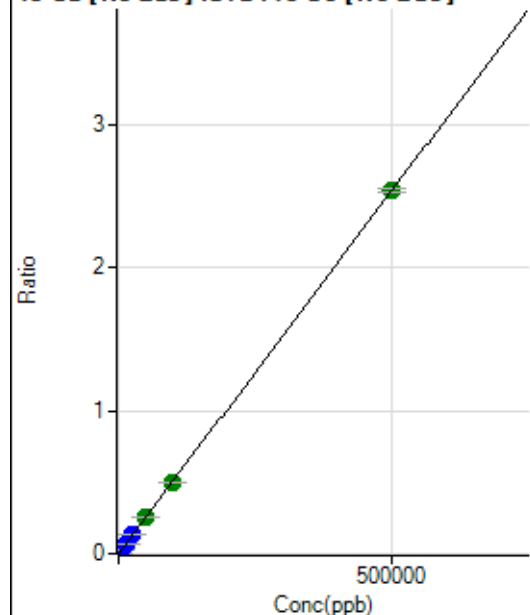
R = 1.0000

DL = 3.703

BEC = 105.4

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	202.78	0.0000	P	29.0
2	☐	500.000	516.897	20848.12	0.0026	P	4.0
3	☐	5000.000	5422.450	208939.65	0.0275	P	2.8
4	☐	12500.000	13155.854	509097.21	0.0667	P	0.9
5	☐	25000.000	26441.289	1009251.69	0.1340	P	0.8
6	☐	50000.000	49610.426	1900372.37	0.2514	A	0.4
7	☐	100000.00	98424.999	3876857.51	0.4987	A	1.4
8	☐	500000.00	500261.25	19375458.59	2.5344	A	1.0

$$y = 5.0662E-006 * x + 2.6169E-005$$

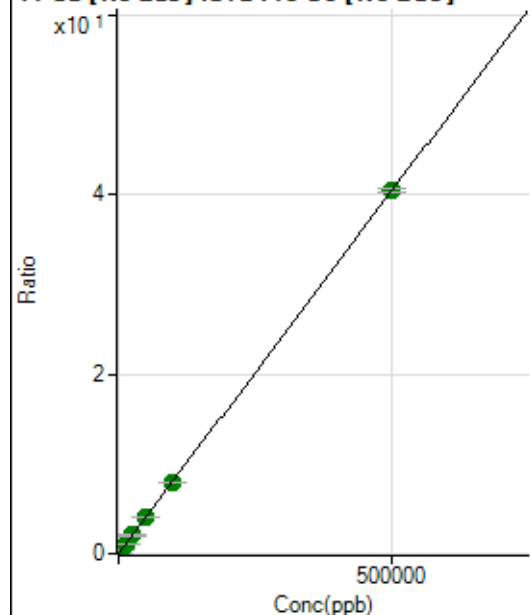
$$R = 1.0000$$

$$DL = 4.493$$

$$BEC = 5.165$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	29006.53	0.0037	P	0.7
2	☐	500.000	507.300	352115.61	0.0447	P	1.9
3	☐	5000.000	5130.811	3172139.93	0.4176	A	4.0
4	☐	12500.000	12494.790	7723170.48	1.0115	A	1.2
5	☐	25000.000	25156.286	15312433.85	2.0327	A	0.2
6	☐	50000.000	49704.155	30337011.10	4.0127	A	0.6
7	☐	100000.00	98038.887	61499410.40	7.9111	A	2.0
8	☐	500000.00	500412.80	308567256.90	40.3648	A	1.1

$$y = 8.0656E-005 * x + 0.0037$$

$$R = 1.0000$$

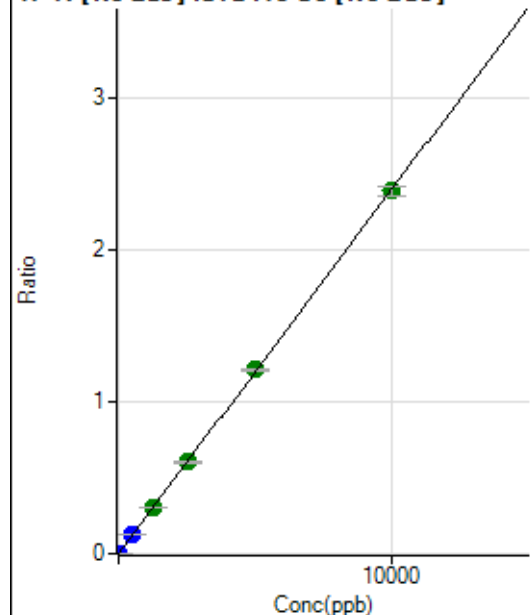
$$DL = 1.043$$

$$BEC = 46.43$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	186.12	0.0000	P	5.1
2	☐	5.000	5.081	9783.96	0.0012	P	5.5
3	☐	500.000	514.866	937207.55	0.1234	P	3.8
4	☐	1250.000	1260.221	2305355.82	0.3019	A	0.5
5	☐	2500.000	2521.366	4550163.47	0.6040	A	1.2
6	☐	5000.000	5049.734	9146019.56	1.2097	A	0.6
7	☐	10000.000	9967.771	18561668.47	2.3879	A	2.5
8	☐			2450.27	0.0003	P	6.6

$$y = 2.3956E-004 * x + 2.4025E-005$$

$$R = 1.0000$$

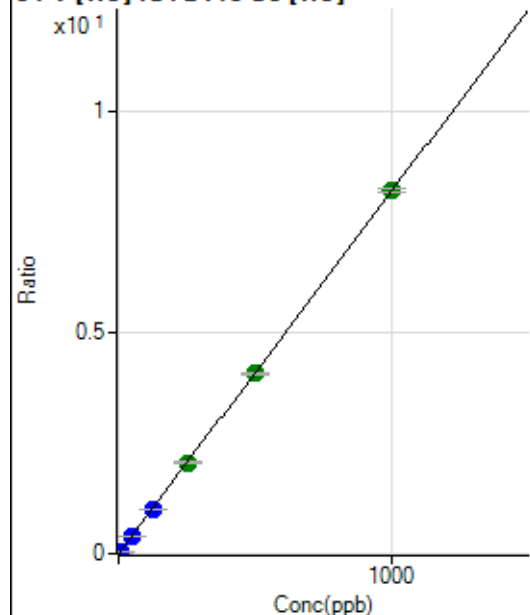
$$DL = 0.01546$$

$$BEC = 0.1003$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	56.67	0.0001	P	30.8
2	☐	5.000	4.917	26755.99	0.0404	P	0.8
3	☐	50.000	49.571	267778.63	0.4066	P	0.5
4	☐	125.000	123.226	656786.14	1.0105	P	1.2
5	☐	250.000	250.980	1327217.96	2.0581	A	1.6
6	☐	500.000	496.959	2576832.55	4.0751	A	0.3
7	☐	1000.000	1001.519	5251208.26	8.2124	A	1.1
8	☐			858.92	0.0013	P	8.2

$$y = 0.0082 * x + 8.7584E-005$$

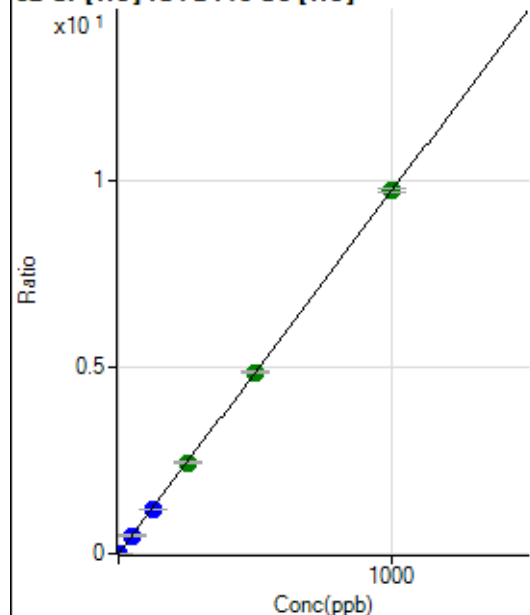
$$R = 1.0000$$

$$DL = 0.009884$$

$$BEC = 0.01068$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	2954.76	0.0046	P	5.5
2	☐	2.000	1.936	15455.79	0.0233	P	2.2
3	☐	50.000	49.852	321291.25	0.4878	P	0.8
4	☐	125.000	123.592	781699.07	1.2027	P	0.7
5	☐	250.000	249.735	1564145.51	2.4255	A	1.5
6	☐	500.000	499.273	3063198.39	4.8445	A	0.9
7	☐	1000.000	1000.613	6205300.74	9.7044	A	1.2
8	☐			55342.12	0.0847	P	0.8

$$y = 0.0097 * x + 0.0046$$

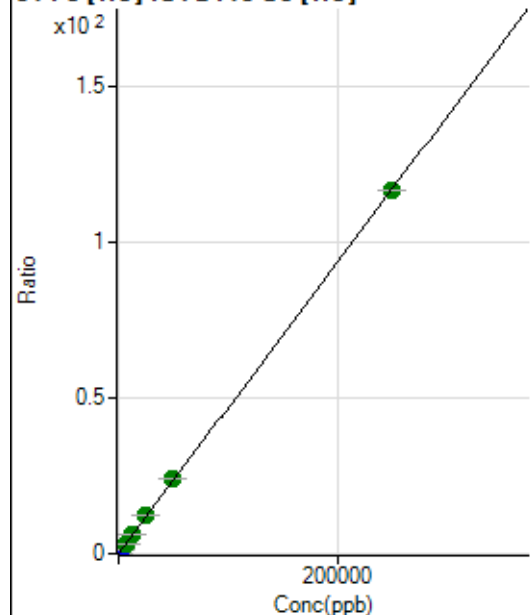
$$R = 1.0000$$

$$DL = 0.07845$$

$$BEC = 0.4715$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	1912.10	0.0030	P	6.5
2	☐	50.000	54.465	18831.11	0.0284	P	2.4
3	☐	2500.000	2708.654	836548.95	1.2701	P	0.3
4	☐	6250.000	6609.231	2011485.50	3.0949	A	1.5
5	☐	12500.000	13143.359	3967247.73	6.1517	A	0.2
6	☐	25000.000	26009.918	7696031.60	12.1710	A	0.8
7	☐	50000.000	52148.653	15600446.04	24.3992	A	0.2
8	☐	250000.00	249426.04	76275691.34	116.6900	A	0.1

$$y = 4.6782E-004 * x + 0.0030$$

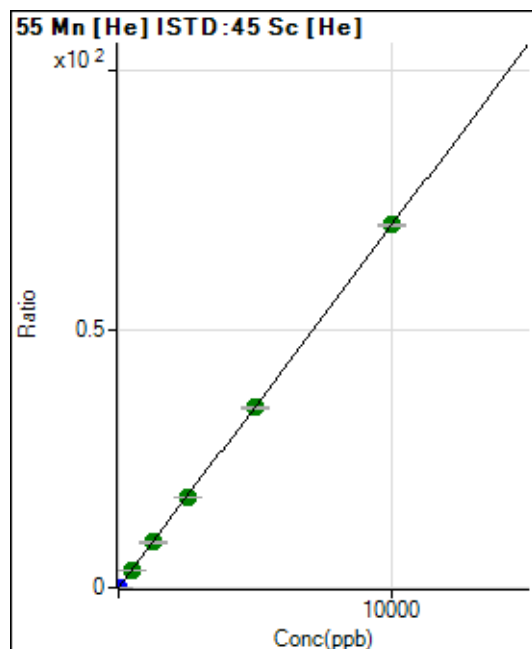
$$R = 1.0000$$

$$DL = 1.23$$

$$BEC = 6.321$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	236.67	0.0004	P	9.0
2	☐	1.000	1.037	5062.01	0.0076	P	1.7
3	☐	500.000	502.142	2320554.29	3.5234	A	0.5
4	☐	1250.000	1252.025	5709547.76	8.7845	A	1.0
5	☐	2500.000	2505.619	11336897.06	17.5796	A	1.0
6	☐	5000.000	4969.238	22044855.51	34.8642	A	1.0
7	☐	10000.000	10013.616	44920272.11	70.2552	A	0.3
8	☐			27101.14	0.0415	P	1.7

$$y = 0.0070 * x + 3.6595E-004$$

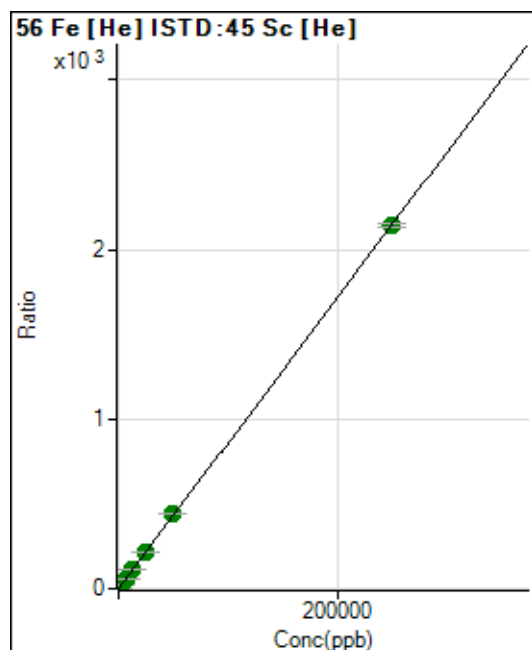
$$R = 1.0000$$

$$DL = 0.01408$$

$$BEC = 0.05216$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	17159.95	0.0265	P	0.4
2	☐	50.000	51.491	309597.18	0.4675	P	0.8
3	☐	2500.000	2586.805	14608051.72	22.1796	A	1.3
4	☐	6250.000	6425.588	35782726.03	55.0545	A	1.2
5	☐	12500.000	12919.836	71370374.74	110.6705	A	1.2
6	☐	25000.000	25320.003	137121179.92	216.8641	A	1.4
7	☐	50000.000	51168.823	280208978.48	438.2303	A	0.7
8	☐	250000.00	249707.98	1397760816.4	2,138.496	A	1.0

$$y = 0.0086 * x + 0.0265$$

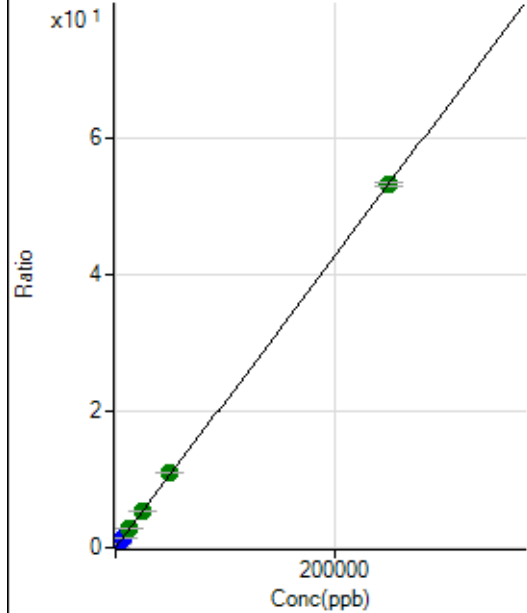
$$R = 1.0000$$

$$DL = 0.03509$$

$$BEC = 3.1$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	542.61	0.0008	P	5.4
2	☐	50.000	52.624	7974.44	0.0120	P	3.1
3	☐	2500.000	2603.122	365498.63	0.5550	P	1.3
4	☐	6250.000	6489.623	898375.41	1.3823	P	1.4
5	☐	12500.000	12753.789	1751304.69	2.7157	A	1.6
6	☐	25000.000	25268.504	3401675.05	5.3796	A	1.0
7	☐	50000.000	51506.763	7010162.77	10.9648	A	1.9
8	☐	250000.00	249652.08	34735326.01	53.1430	A	1.0

$$y = 2.1286\text{E-}004 * x + 8.3962\text{E-}004$$

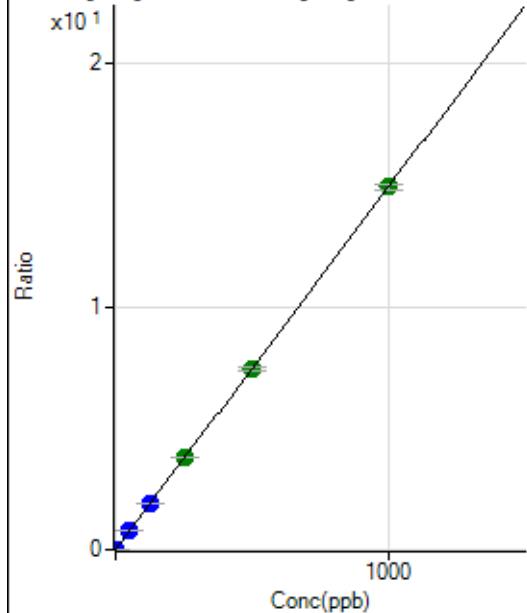
$$R = 1.0000$$

$$DL = 0.6373$$

$$BEC = 3.944$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	182.23	0.0003	P	20.9
2	☐	1.000	1.005	10126.85	0.0153	P	0.7
3	☐	50.000	50.502	496742.60	0.7542	P	0.1
4	☐	125.000	125.259	1215569.47	1.8702	P	1.1
5	☐	250.000	254.098	2446518.97	3.7936	A	0.9
6	☐	500.000	498.119	4702197.71	7.4365	A	1.1
7	☐	1000.000	999.859	9543262.22	14.9267	A	1.6
8	☐			18105.47	0.0277	P	0.5

$$y = 0.0149 * x + 2.8220\text{E-}004$$

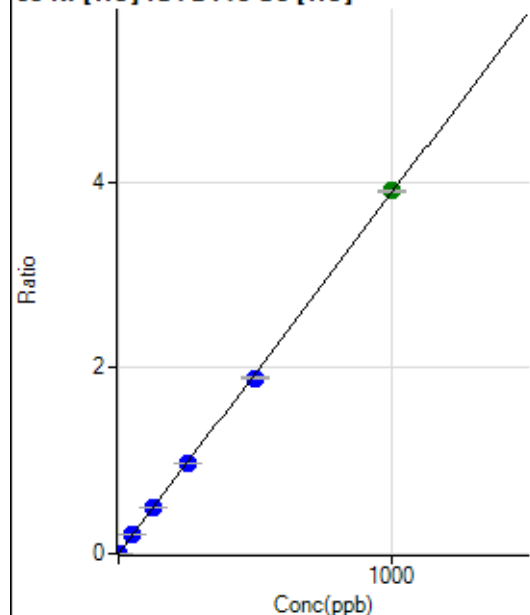
$$R = 1.0000$$

$$DL = 0.01183$$

$$BEC = 0.0189$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	274.45	0.0004	P	14.2
2	☐	1.000	1.056	2995.88	0.0045	P	3.6
3	☐	50.000	51.363	131566.24	0.1998	P	0.4
4	☐	125.000	126.500	319376.11	0.4914	P	0.7
5	☐	250.000	249.253	624107.20	0.9678	P	0.7
6	☐	500.000	487.114	1195625.05	1.8909	P	1.0
7	☐	1000.000	1006.374	2497568.87	3.9061	A	0.4
8	☐			16801.72	0.0257	P	1.8

$$y = 0.0039 * x + 4.2493E-004$$

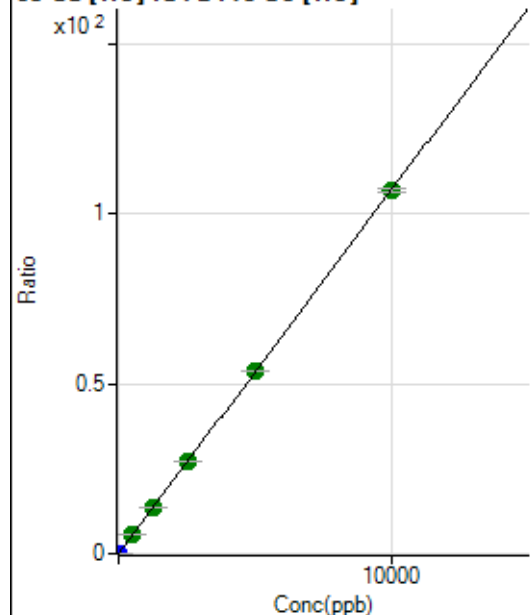
$$R = 0.9999$$

$$DL = 0.04668$$

$$BEC = 0.1095$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	1140.05	0.0018	P	3.4
2	☐	2.000	2.053	15735.04	0.0238	P	0.3
3	☐	500.000	520.275	3673263.77	5.5772	A	0.2
4	☐	1250.000	1274.482	8878544.17	13.6595	A	0.6
5	☐	2500.000	2543.545	17579450.85	27.2591	A	0.3
6	☐	5000.000	5027.431	34067642.55	53.8771	A	0.4
7	☐	10000.000	9971.324	68319116.76	106.8572	A	1.1
8	☐			15810.66	0.0242	P	0.2

$$y = 0.0107 * x + 0.0018$$

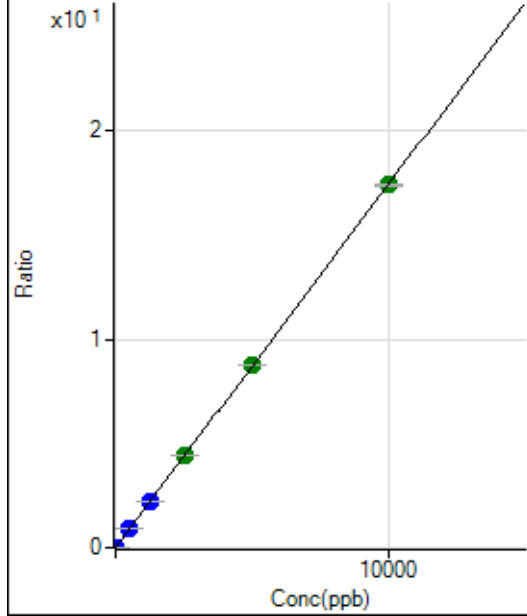
$$R = 1.0000$$

$$DL = 0.01666$$

$$BEC = 0.1646$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	401.12	0.0006	P	9.8
2	☐	2.000	2.248	3005.89	0.0045	P	5.1
3	☐	500.000	505.583	580905.23	0.8820	P	0.6
4	☐	1250.000	1248.593	1415159.70	2.1772	P	0.6
5	☐	2500.000	2536.844	2852388.74	4.4230	A	0.7
6	☐	5000.000	5016.735	5530415.06	8.7460	A	0.6
7	☐	10000.000	9982.318	11126359.83	17.4023	A	0.8
8	☐			9982.30	0.0153	P	2.5

$$y = 0.0017 * x + 6.2080E-004$$

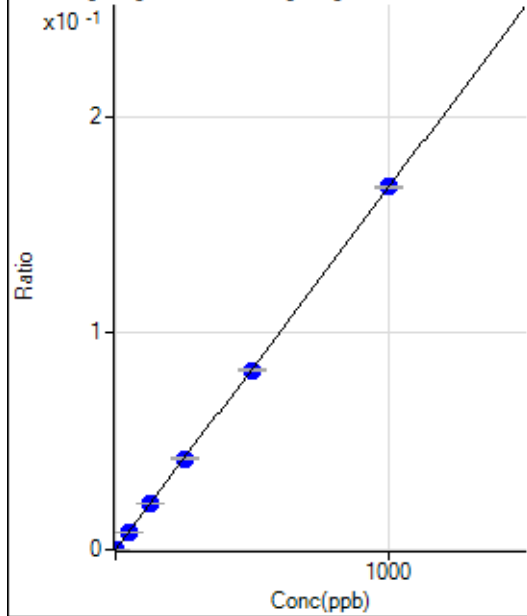
$$R = 1.0000$$

$$DL = 0.1046$$

$$BEC = 0.3561$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	26.54	0.0000	P	22.1
2	☐	1.000	1.101	824.10	0.0002	P	4.6
3	☐	50.000	50.027	36116.56	0.0084	P	0.4
4	☐	125.000	126.645	88748.71	0.0212	P	1.9
5	☐	250.000	251.020	176786.97	0.0420	P	1.1
6	☐	500.000	495.742	343441.56	0.0829	P	1.5
7	☐	1000.000	1001.667	700809.41	0.1676	P	0.6
8	☐			292.60	0.0001	P	6.9

$$y = 1.6727E-004 * x + 6.1745E-006$$

$$R = 1.0000$$

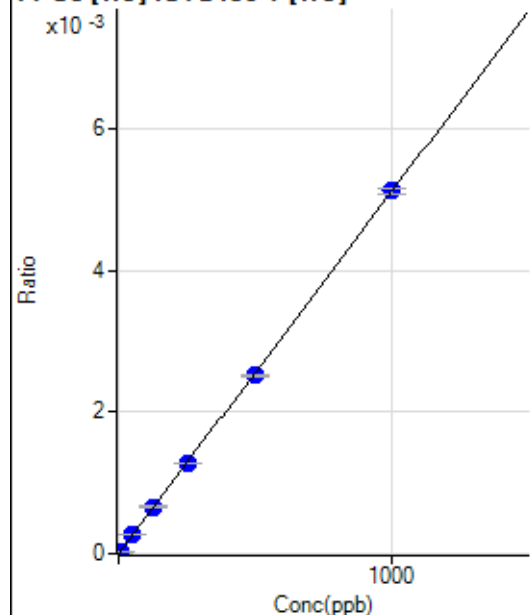
$$DL = 0.02452$$

$$BEC = 0.03691$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	4.44	0.0000	P	114.8
2	☐	5.000	4.729	108.89	0.0000	P	7.4
3	☐	50.000	51.360	1134.50	0.0003	P	2.4
4	☐	125.000	129.989	2782.51	0.0007	P	2.1
5	☐	250.000	249.021	5353.24	0.0013	P	1.2
6	☐	500.000	493.148	10424.86	0.0025	P	0.9
7	☐	1000.000	1002.980	21408.91	0.0051	P	1.5
8	☐			7.78	0.0000	P	64.4

$$y = 5.1021\text{E-}006 * x + 1.0305\text{E-}006$$

$$R = 0.9999$$

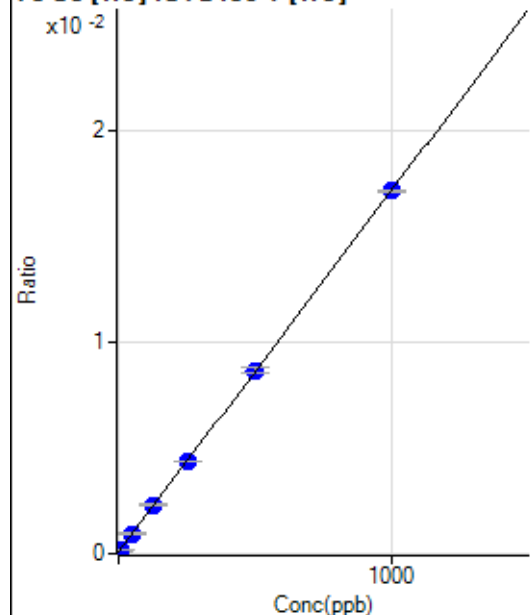
$$DL = 0.6958$$

$$BEC = 0.202$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	352.48	0.0001	P	6.5
2	☐	5.000	4.850	713.60	0.0002	P	1.1
3	☐	50.000	50.236	4049.34	0.0009	P	3.4
4	☐	125.000	130.303	9651.32	0.0023	P	1.2
5	☐	250.000	250.347	18319.97	0.0044	P	0.7
6	☐	500.000	500.799	35708.27	0.0086	P	3.2
7	☐	1000.000	998.840	71591.25	0.0171	P	0.7
8	☐			355.56	0.0001	P	6.6

$$y = 1.7055\text{E-}005 * x + 8.2071\text{E-}005$$

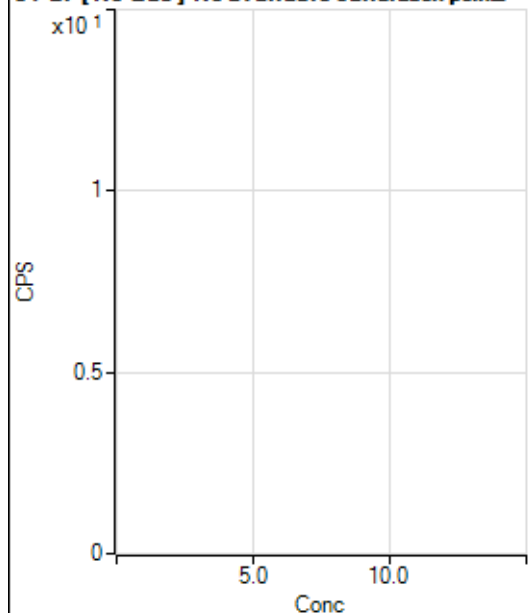
$$R = 1.0000$$

$$DL = 0.934$$

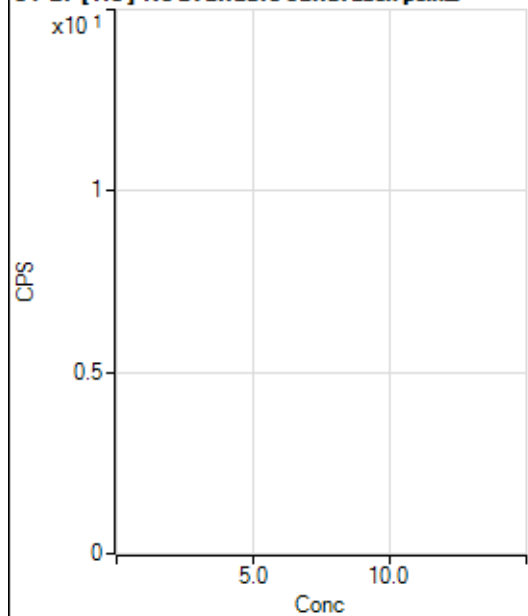
$$BEC = 4.812$$

Weight: <None>

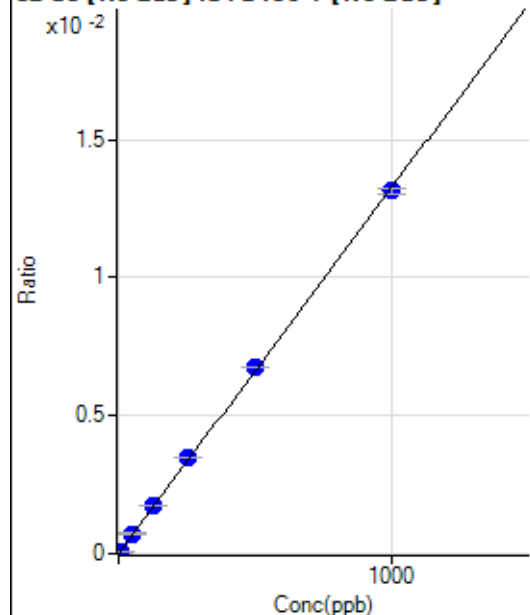
Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			11229.55		P	0.5
2	☐			11110.02		P	2.1
3	☐			11176.73		P	0.8
4	☐			10962.71		P	5.7
5	☐			10356.65		P	1.7
6	☐			10501.23		P	2.1
7	☐			10498.45		P	5.2
8	☐			11535.35		P	6.0

81 Br [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			83.42		P	13.9
2	☐			50.05		P	40.0
3	☐			40.04		P	90.1
4	☐			86.75		P	46.6
5	☐			76.74		P	45.8
6	☐			70.07		P	37.8
7	☐			83.42		P	36.7
8	☐			160.17		P	28.6

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	-99.42	0.0000	P	-135.
2	☐	5.000	5.892	1203.80	0.0001	P	15.5
3	☐	50.000	54.300	11446.61	0.0007	P	3.5
4	☐	125.000	131.633	28214.29	0.0017	P	2.3
5	☐	250.000	262.130	55784.18	0.0035	P	1.1
6	☐	500.000	508.508	109758.48	0.0067	P	0.5
7	☐	1000.000	991.665	219989.03	0.0131	P	1.9
8	☐			72.83	0.0000	P	147.3

$$y = 1.3266\text{E-}005 * x - 6.0364\text{E-}006$$

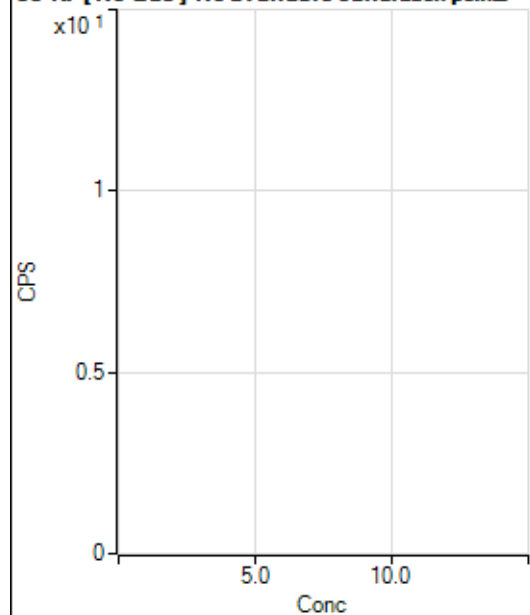
$$R = 0.9999$$

$$DL = 1.852$$

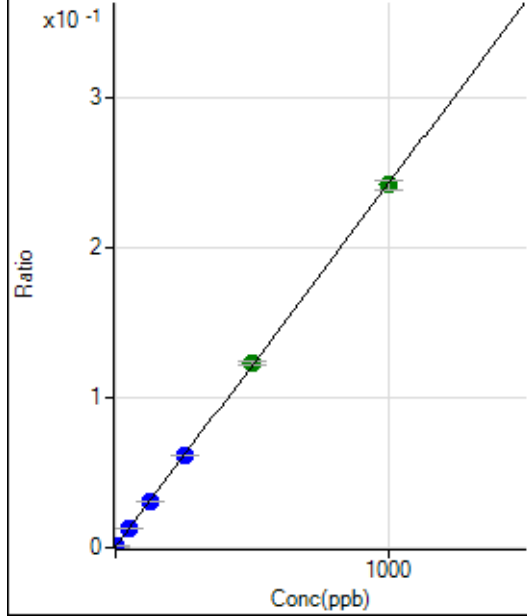
$$BEC = -0.455$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			5703.38		P	2.3
2	☐			5597.78		P	3.4
3	☐			5513.30		P	2.7
4	☐			5247.65		P	1.9
5	☐			5454.40		P	2.1
6	☐			5223.20		P	3.5
7	☐			5233.21		P	1.3
8	☐			5523.31		P	2.1

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	9116.93	0.0006	P	3.0
2	☐	1.000	0.884	12775.32	0.0008	P	3.0
3	☐	50.000	51.701	209397.54	0.0131	P	3.4
4	☐	125.000	125.136	500128.32	0.0308	P	0.5
5	☐	250.000	251.863	988514.08	0.0615	P	1.1
6	☐	500.000	505.403	2001110.55	0.1229	A	1.5
7	☐	1000.000	996.731	4045329.86	0.2418	A	2.3
8	☐			34699.67	0.0021	P	3.0

$$y = 2.4205\text{E-}004 * x + 5.5262\text{E-}004$$

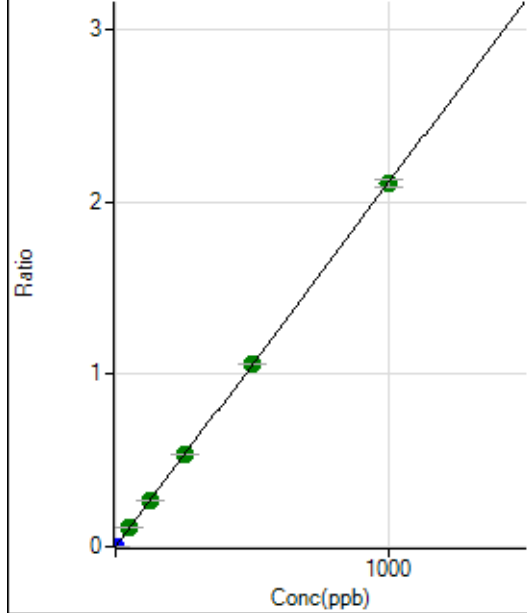
$$R = 1.0000$$

$$DL = 0.2067$$

$$BEC = 2.283$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	425.01	0.0000	P	10.2
2	☐	1.000	0.976	34761.14	0.0021	P	1.4
3	☐	50.000	52.585	1778632.53	0.1110	A	3.7
4	☐	125.000	125.935	4309646.76	0.2658	A	0.9
5	☐	250.000	254.862	8643100.02	0.5379	A	0.8
6	☐	500.000	502.767	17278066.36	1.0610	A	0.2
7	☐	1000.000	997.155	35204112.24	2.1043	A	2.1
8	☐			230639.26	0.0142	P	1.1

$$y = 0.0021 * x + 2.5758\text{E-}005$$

$$R = 1.0000$$

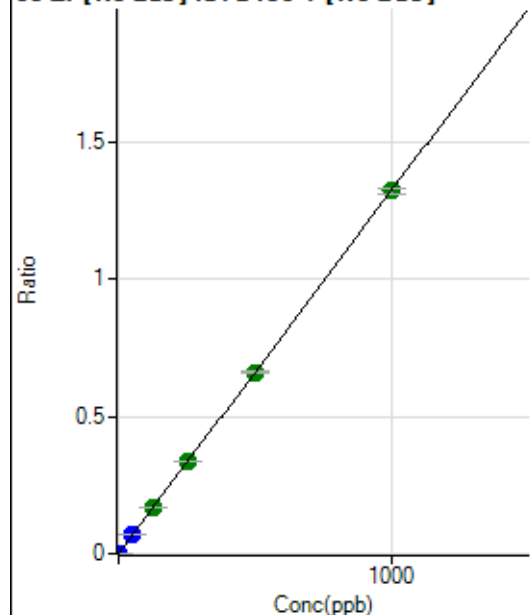
$$DL = 0.00373$$

$$BEC = 0.01221$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	1055.62	0.0001	P	11.2
2	☐	1.000	0.992	22937.94	0.0014	P	2.3
3	☐	50.000	51.338	1089142.91	0.0680	P	3.2
4	☐	125.000	126.220	2707995.61	0.1670	A	0.6
5	☐	250.000	253.187	5382473.90	0.3349	A	0.2
6	☐	500.000	500.199	10774322.89	0.6616	A	0.6
7	☐	1000.000	998.885	22103436.43	1.3212	A	1.7
8	☐			10559.63	0.0006	P	4.3

$$y = 0.0013 * x + 6.3991E-005$$

$$R = 1.0000$$

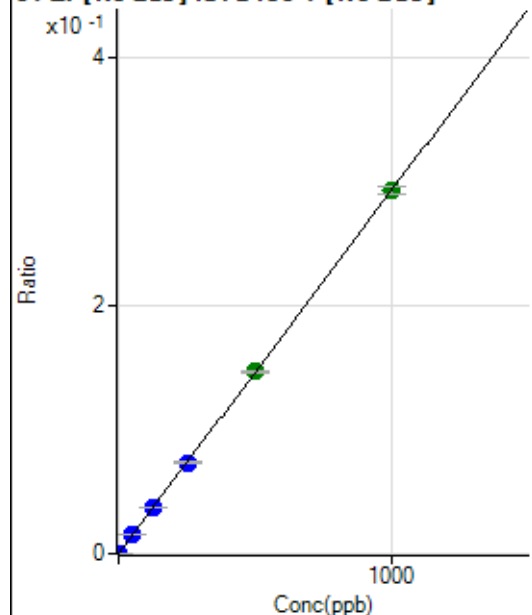
$$DL = 0.01628$$

$$BEC = 0.04838$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	175.01	0.0000	P	9.4
2	☐	1.000	0.976	4950.98	0.0003	P	3.3
3	☐	50.000	52.122	245144.40	0.0153	P	3.4
4	☐	125.000	125.115	595199.02	0.0367	P	1.0
5	☐	250.000	251.233	1184285.68	0.0737	P	0.4
6	☐	500.000	500.958	2392885.92	0.1469	A	0.8
7	☐	1000.000	999.092	4902314.95	0.2930	A	2.2
8	☐			2239.12	0.0001	P	7.7

$$y = 2.9329E-004 * x + 1.0606E-005$$

$$R = 1.0000$$

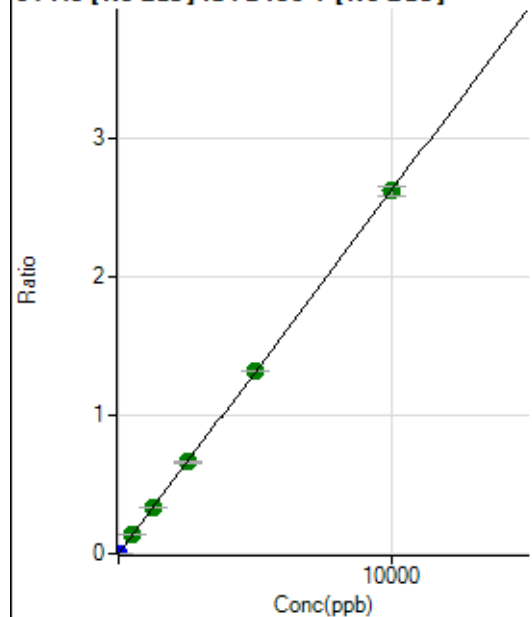
$$DL = 0.01015$$

$$BEC = 0.03616$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	422.24	0.0000	P	17.9
2	☐	5.000	5.748	25514.40	0.0015	P	4.6
3	☐	500.000	528.273	2217942.32	0.1384	A	3.2
4	☐	1250.000	1261.113	5356611.54	0.3304	A	1.5
5	☐	2500.000	2521.904	10615460.74	0.6606	A	1.1
6	☐	5000.000	5017.057	21401505.69	1.3142	A	0.4
7	☐	10000.000	9983.192	43747119.03	2.6150	A	2.4
8	☐			13309.18	0.0008	P	5.1

$$y = 2.6194\text{E-}004 * x + 2.5599\text{E-}005$$

$$R = 1.0000$$

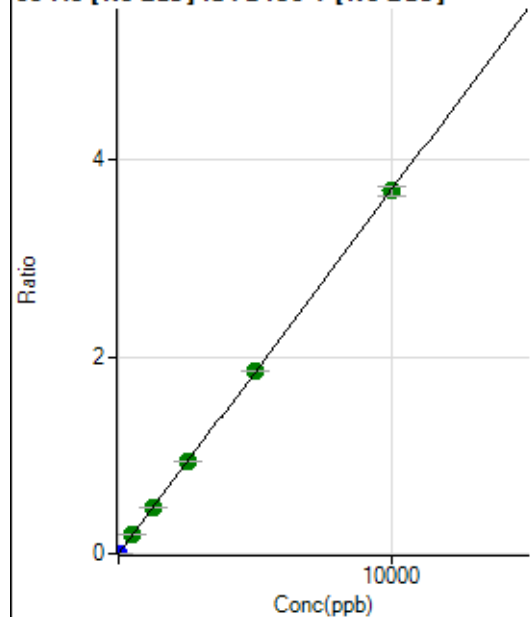
$$DL = 0.05253$$

$$BEC = 0.09773$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	155.56	0.0000	P	25.5
2	☐	5.000	5.026	31131.03	0.0019	P	2.0
3	☐	500.000	521.272	3088541.17	0.1927	A	3.6
4	☐	1250.000	1267.384	7598323.87	0.4686	A	1.2
5	☐	2500.000	2537.606	15077086.27	0.9383	A	0.9
6	☐	5000.000	5019.026	30220402.07	1.8557	A	0.6
7	☐	10000.000	9977.849	61715091.66	3.6892	A	2.7
8	☐			14699.43	0.0009	P	0.8

$$y = 3.6974\text{E-}004 * x + 9.4321\text{E-}006$$

$$R = 1.0000$$

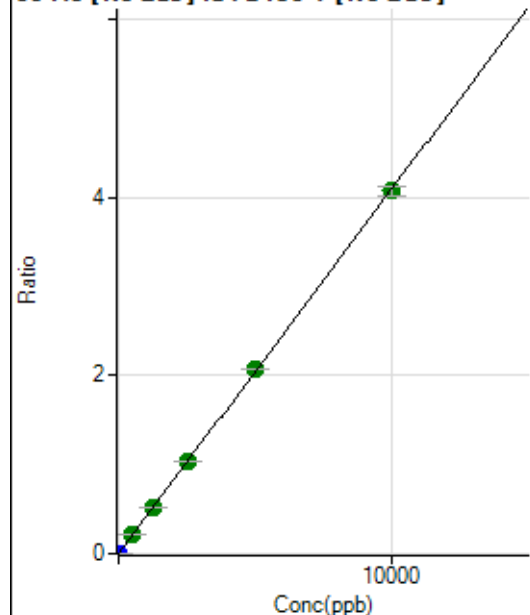
$$DL = 0.01955$$

$$BEC = 0.02551$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	297.23	0.0000	P	8.8
2	☐	5.000	5.130	35229.07	0.0021	P	3.6
3	☐	500.000	522.655	3422688.27	0.2135	A	2.3
4	☐	1250.000	1269.537	8410051.92	0.5187	A	1.1
5	☐	2500.000	2535.027	16641235.27	1.0357	A	1.7
6	☐	5000.000	5057.869	33649733.39	2.0663	A	0.1
7	☐	10000.000	9958.734	68061616.80	4.0685	A	2.4
8	☐			23410.92	0.0014	P	2.8

$$y = 4.0853\text{E-}004 * x + 1.8018\text{E-}005$$

$$R = 1.0000$$

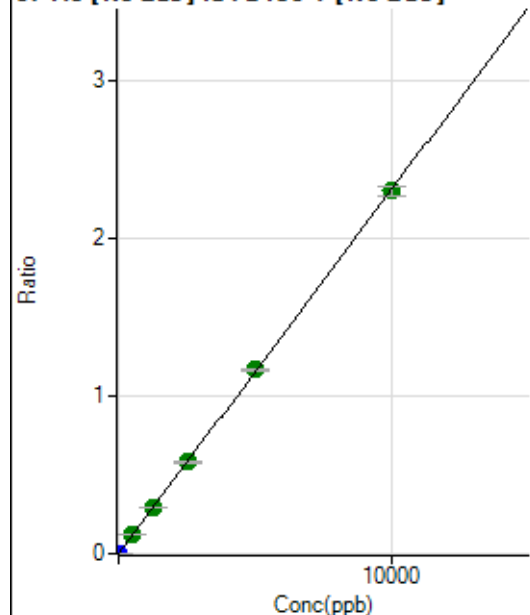
$$DL = 0.01161$$

$$BEC = 0.0441$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	83.33	0.0000	P	26.5
2	☐	5.000	5.147	19883.49	0.0012	P	3.4
3	☐	500.000	520.764	1926411.57	0.1202	A	2.7
4	☐	1250.000	1268.308	4746551.50	0.2927	A	1.0
5	☐	2500.000	2523.297	9357551.86	0.5824	A	2.2
6	☐	5000.000	5047.739	18971852.86	1.1650	A	0.8
7	☐	10000.000	9966.980	38482538.01	2.3004	A	2.5
8	☐			9041.91	0.0006	P	8.2

$$y = 2.3080\text{E-}004 * x + 5.0516\text{E-}006$$

$$R = 1.0000$$

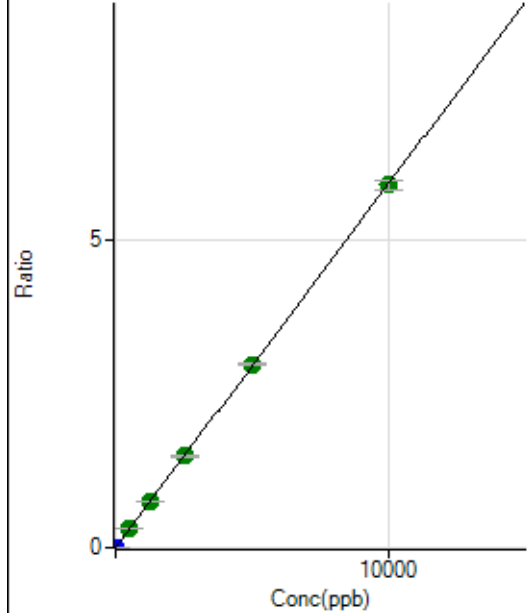
$$DL = 0.0174$$

$$BEC = 0.02189$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	283.35	0.0000	P	35.9
2	☐	5.000	5.000	49576.37	0.0030	P	3.0
3	☐	500.000	516.206	4893270.47	0.3053	A	3.1
4	☐	1250.000	1261.417	12097829.18	0.7461	A	1.1
5	☐	2500.000	2527.679	24022748.80	1.4951	A	1.9
6	☐	5000.000	5038.888	48534186.85	2.9804	A	0.8
7	☐	10000.000	9971.399	98663370.95	5.8978	A	2.5
8	☐			23316.35	0.0014	P	6.1

$$y = 5.9147\text{E-}004 * x + 1.7183\text{E-}005$$

$$R = 1.0000$$

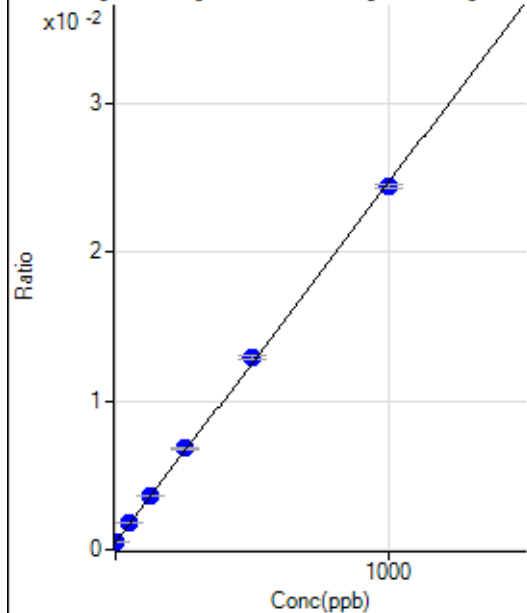
$$DL = 0.03128$$

$$BEC = 0.02905$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	5998.61	0.0005	P	3.5
2	☐	1.000	0.963	6351.56	0.0005	P	4.4
3	☐	50.000	54.382	22581.94	0.0018	P	1.8
4	☐	125.000	131.951	47826.90	0.0037	P	0.7
5	☐	250.000	261.913	88757.92	0.0068	P	0.9
6	☐	500.000	515.052	169631.65	0.0129	P	1.2
7	☐	1000.000	988.408	333637.37	0.0244	P	0.9
8	☐			5956.92	0.0005	P	2.3

$$y = 2.4228\text{E-}005 * x + 4.6304\text{E-}004$$

$$R = 0.9997$$

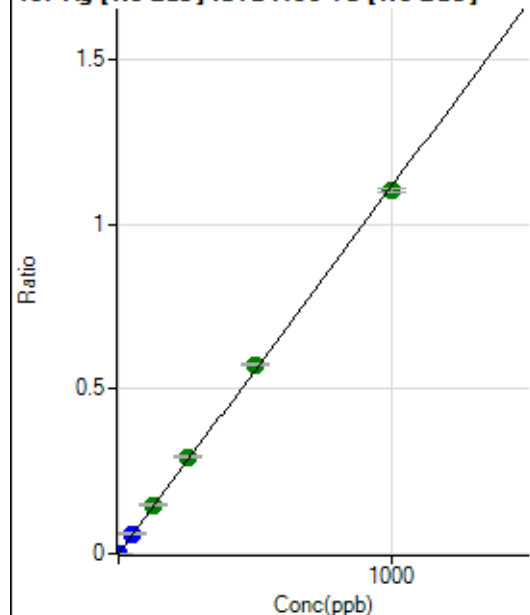
$$DL = 1.998$$

$$BEC = 19.11$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	102.78	0.0000	P	19.4
2	☐	1.000	0.989	14510.39	0.0011	P	5.6
3	☐	50.000	54.789	774443.70	0.0611	P	3.5
4	☐	125.000	132.957	1937527.45	0.1483	A	1.9
5	☐	250.000	262.944	3822304.99	0.2932	A	1.9
6	☐	500.000	514.801	7524865.53	0.5741	A	1.2
7	☐	1000.000	988.129	15061447.39	1.1020	A	1.2
8	☐			4097.90	0.0003	P	0.5

$$y = 0.0011 * x + 7.9391E-006$$

$$R = 0.9997$$

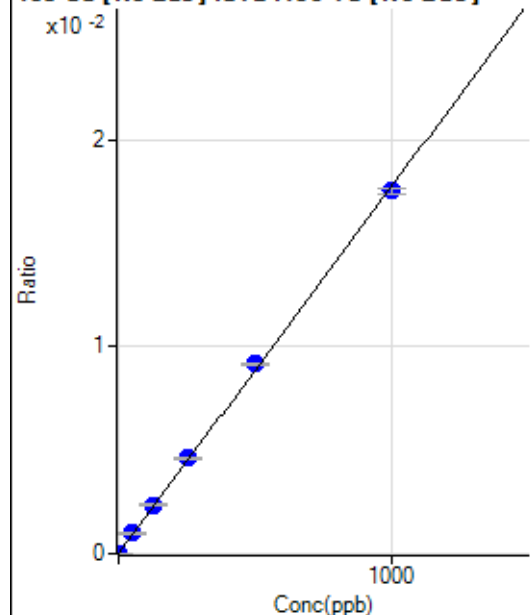
$$DL = 0.00414$$

$$BEC = 0.007119$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	100.00	0.0000	P	18.6
2	☐	1.000	0.740	272.23	0.0000	P	13.3
3	☐	50.000	55.535	12580.57	0.0010	P	3.6
4	☐	125.000	132.543	30818.97	0.0024	P	1.4
5	☐	250.000	259.682	60135.22	0.0046	P	1.5
6	☐	500.000	516.016	120063.18	0.0092	P	1.0
7	☐	1000.000	988.352	239688.10	0.0175	P	1.8
8	☐			162.50	0.0000	P	11.9

$$y = 1.7736E-005 * x + 7.7235E-006$$

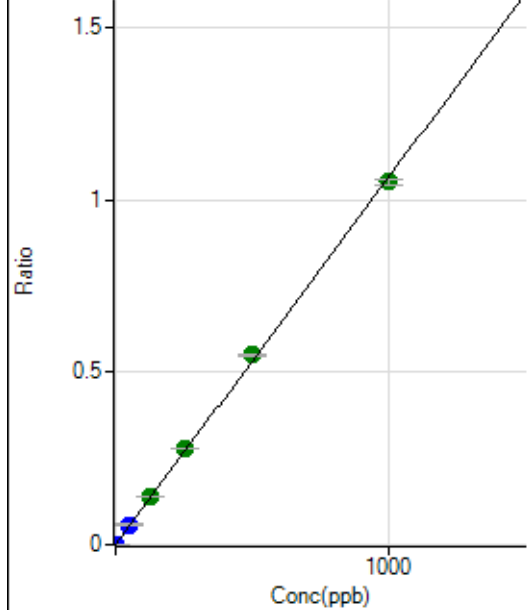
$$R = 0.9997$$

$$DL = 0.2436$$

$$BEC = 0.4355$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	36.11	0.0000	P	87.4
2	☐	1.000	1.006	14037.74	0.0011	P	7.4
3	☐	50.000	54.695	738654.41	0.0583	P	2.8
4	☐	125.000	132.068	1838609.29	0.1407	A	1.3
5	☐	250.000	261.512	3631646.26	0.2786	A	1.5
6	☐	500.000	516.027	7206496.52	0.5498	A	0.4
7	☐	1000.000	987.990	14386293.55	1.0526	A	1.4
8	☐			4192.39	0.0003	P	2.9

$$y = 0.0011 * x + 2.7778E-006$$

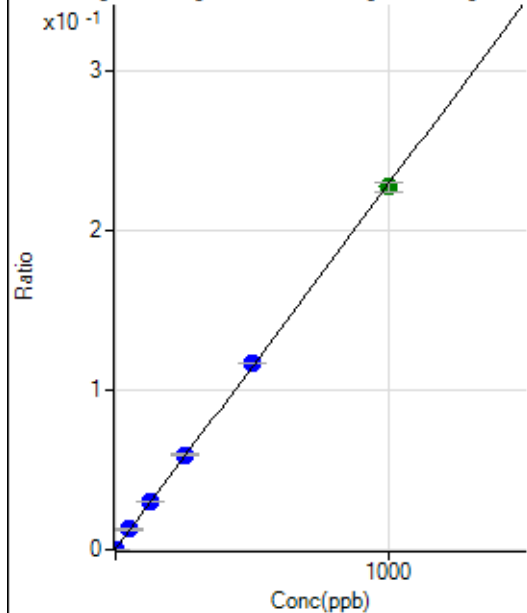
$$R = 0.9997$$

$$DL = 0.006837$$

$$BEC = 0.002607$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	4201.25	0.0003	P	3.3
2	☐	1.000	1.071	7436.47	0.0006	P	1.7
3	☐	50.000	54.348	161781.47	0.0128	P	3.9
4	☐	125.000	130.000	393152.25	0.0301	P	0.8
5	☐	250.000	259.016	777141.03	0.0596	P	1.8
6	☐	500.000	508.756	1530973.06	0.1168	P	0.3
7	☐	1000.000	992.526	3109929.38	0.2275	A	2.3
8	☐			4910.29	0.0004	P	1.2

$$y = 2.2894E-004 * x + 3.2430E-004$$

$$R = 0.9999$$

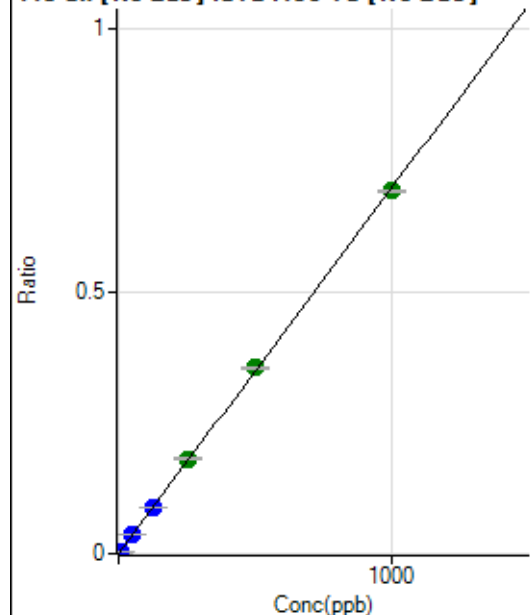
$$DL = 0.1407$$

$$BEC = 1.417$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	1727.93	0.0001	P	8.1
2	☐	5.000	5.164	48683.03	0.0037	P	1.8
3	☐	50.000	53.091	470076.96	0.0371	P	3.4
4	☐	125.000	127.717	1163562.91	0.0890	P	1.2
5	☐	250.000	258.585	2347916.50	0.1801	A	1.9
6	☐	500.000	509.259	4648439.95	0.3546	A	1.1
7	☐	1000.000	992.729	9447544.39	0.6912	A	0.9
8	☐			6170.95	0.0005	P	2.5

$$y = 6.9611\text{E-}004 * x + 1.3333\text{E-}004$$

$$R = 0.9999$$

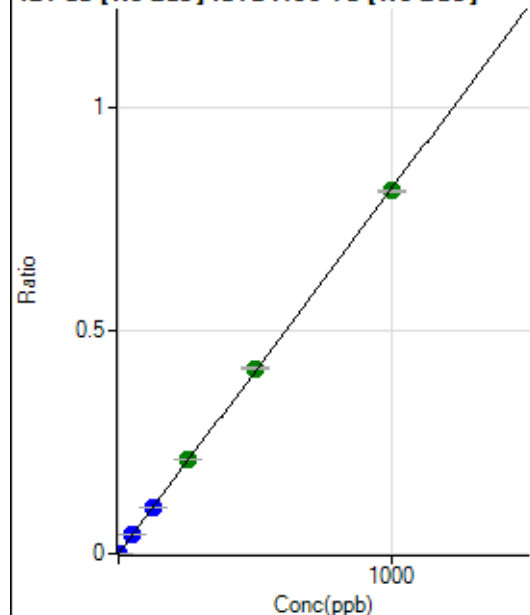
$$DL = 0.04672$$

$$BEC = 0.1915$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	116.67	0.0000	P	31.1
2	☐	2.000	2.002	21491.60	0.0016	P	2.1
3	☐	50.000	52.681	545847.92	0.0431	P	3.5
4	☐	125.000	126.024	1346281.63	0.1030	P	0.8
5	☐	250.000	257.187	2740634.09	0.2102	A	1.2
6	☐	500.000	506.928	5431191.57	0.4144	A	1.2
7	☐	1000.000	994.477	11110846.34	0.8129	A	0.6
8	☐			8722.34	0.0007	P	2.5

$$y = 8.1740\text{E-}004 * x + 9.0057\text{E-}006$$

$$R = 0.9999$$

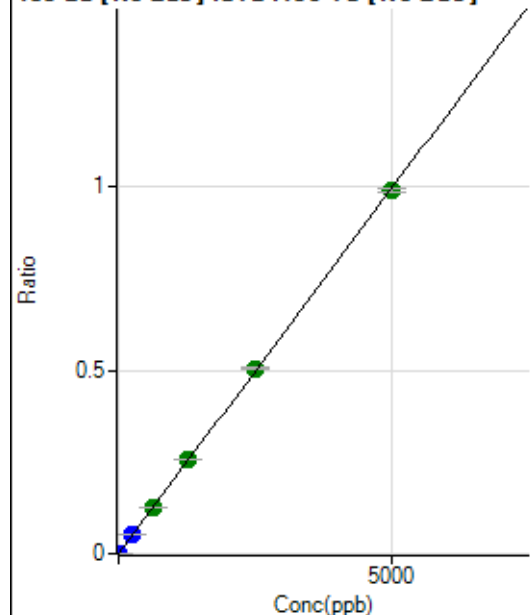
$$DL = 0.01029$$

$$BEC = 0.01102$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	44.44	0.0000	P	21.1
2	☐	10.000	9.892	25779.48	0.0020	P	2.1
3	☐	250.000	256.985	648830.67	0.0512	P	3.7
4	☐	625.000	636.298	1656551.31	0.1268	A	1.7
5	☐	1250.000	1291.833	3354856.17	0.2574	A	1.0
6	☐	2500.000	2536.803	6624197.06	0.5054	A	1.1
7	☐	5000.000	4969.379	13531100.13	0.9900	A	1.0
8	☐			6268.20	0.0005	P	1.5

$$y = 1.9922\text{E-}004 * x + 3.4273\text{E-}006$$

R = 0.9999

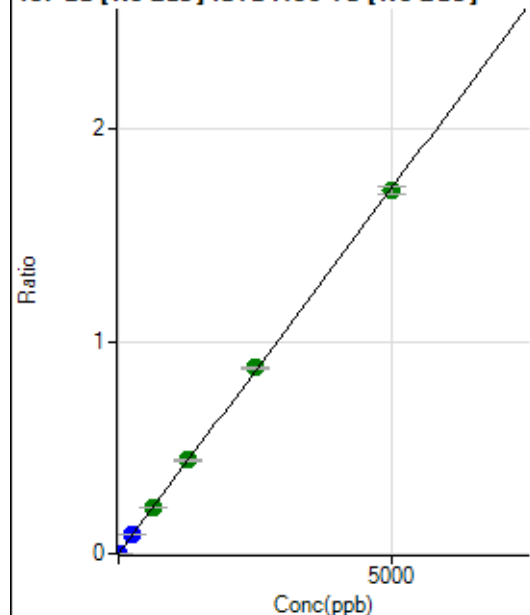
DL = 0.01091

BEC = 0.0172

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	77.78	0.0000	P	15.8
2	☐	10.000	9.828	44264.15	0.0034	P	1.5
3	☐	250.000	258.504	1127866.58	0.0890	P	3.8
4	☐	625.000	636.998	2865771.52	0.2193	A	1.3
5	☐	1250.000	1284.994	5765499.96	0.4424	A	2.6
6	☐	2500.000	2547.456	11495603.56	0.8770	A	1.1
7	☐	5000.000	4965.599	23364260.76	1.7095	A	1.9
8	☐			10851.68	0.0008	P	1.5

$$y = 3.4427\text{E-}004 * x + 5.9993\text{E-}006$$

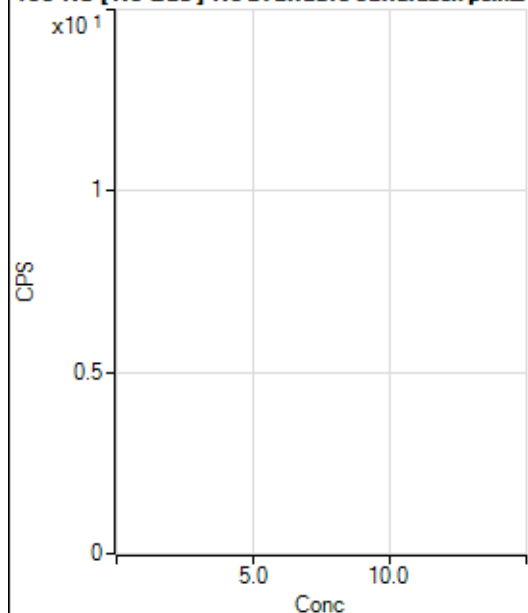
R = 0.9999

DL = 0.008243

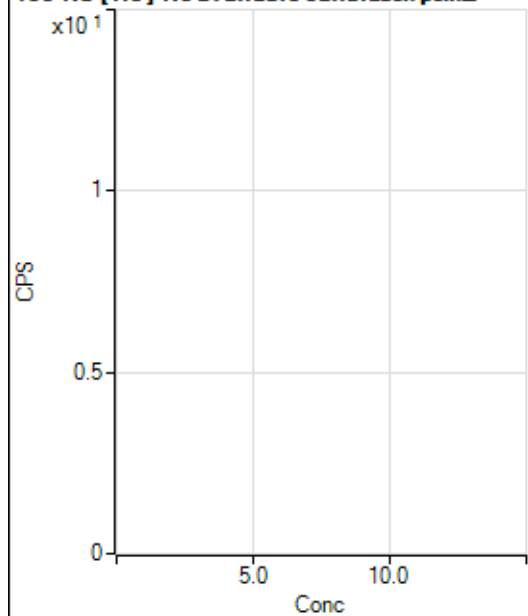
BEC = 0.01743

Weight: <None>

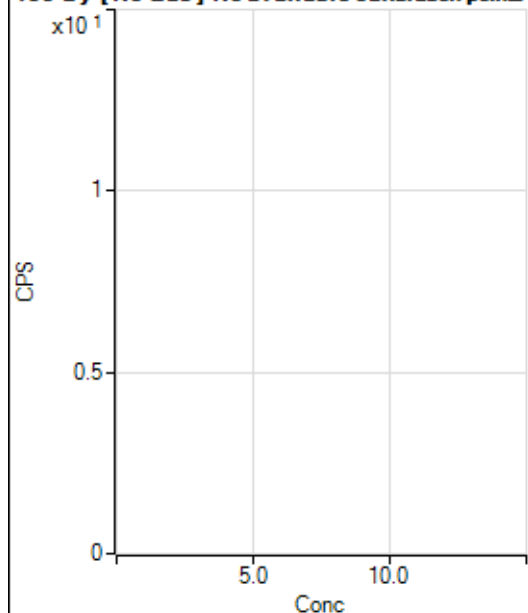
Min Conc: 0

150 Nd [No Gas] No available calibration points

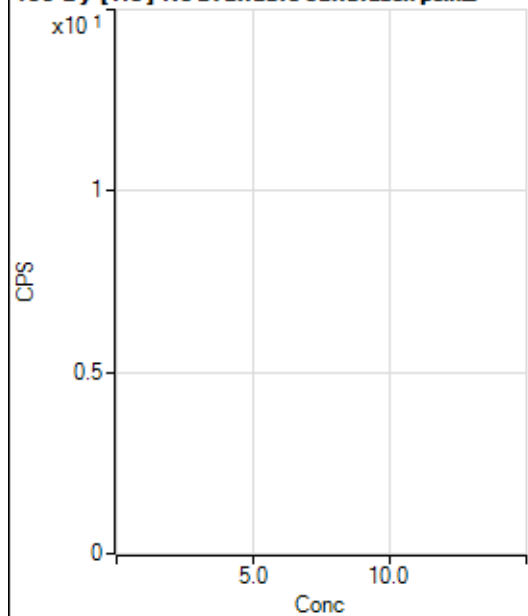
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			2.22		P	173.2
2	☐			2.22		P	173.2
3	☐			44.45		P	67.6
4	☐			104.45		P	40.5
5	☐			208.90		P	18.1
6	☐			382.24		P	3.6
7	☐			737.81		P	9.1
8	☐			140.00		P	17.2

150 Nd [He] No available calibration points

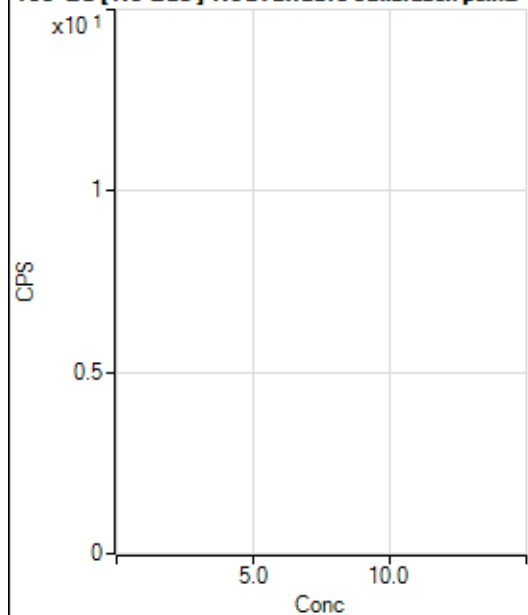
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			1.11		P	173.2
2	☐			2.22		P	173.2
3	☐			10.00		P	115.5
4	☐			27.78		P	38.6
5	☐			43.34		P	35.2
6	☐			98.89		P	21.9
7	☐			170.00		P	7.8
8	☐			60.00		P	14.7

156 Dy [No Gas] No available calibration points

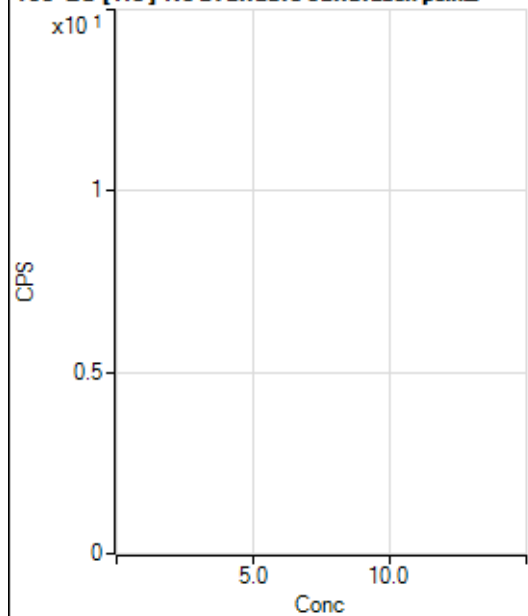
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			16.67		P	NaN
2	☐			27.78		P	62.5
3	☐			36.11		P	35.3
4	☐			83.34		P	30.0
5	☐			175.01		P	9.5
6	☐			305.57		P	11.0
7	☐			641.70		P	25.3
8	☐			1208.42		P	3.0

156 Dy [He] No available calibration points

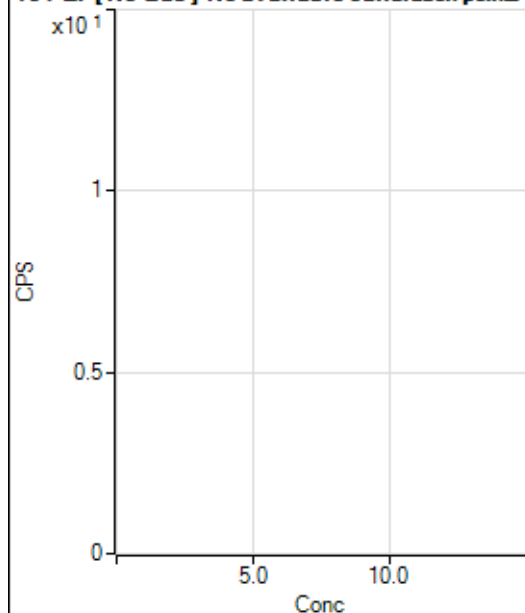
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			14.44		P	13.4
2	☐			12.22		P	56.8
3	☐			41.11		P	30.7
4	☐			100.00		P	20.3
5	☐			157.78		P	12.0
6	☐			336.68		P	11.7
7	☐			630.02		P	4.1
8	☐			857.81		P	8.8

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

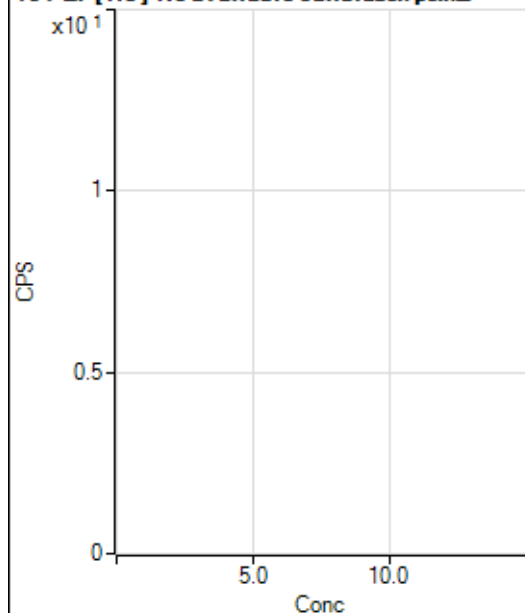
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			97.23		P	9.9
2	☐			100.00		P	22.0
3	☐			116.67		P	75.3
4	☐			163.89		P	32.7
5	☐			197.23		P	8.8
6	☐			377.79		P	12.9
7	☐			569.47		P	4.7
8	☐			966.73		P	4.8

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			252.23		P	8.8
2	☐			238.89		P	14.0
3	☐			274.45		P	11.8
4	☐			281.12		P	11.6
5	☐			303.34		P	16.6
6	☐			418.90		P	4.5
7	☐			586.68		P	5.6
8	☐			885.59		P	1.3

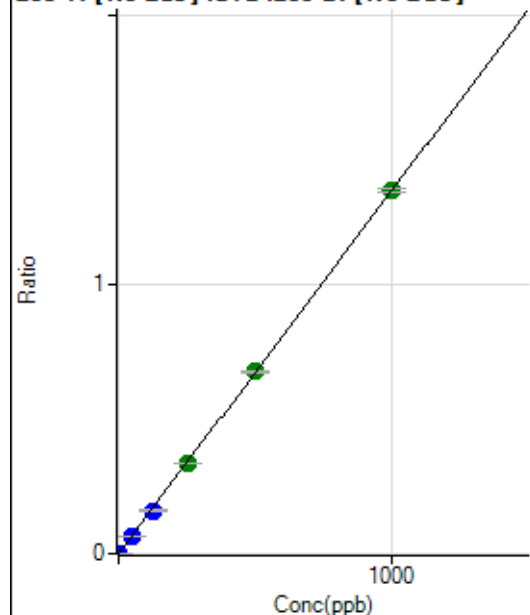
164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			88.89		P	35.5
2	☐			116.67		P	39.8
3	☐			108.34		P	20.3
4	☐			108.34		P	26.6
5	☐			130.56		P	37.4
6	☐			158.34		P	36.5
7	☐			213.90		P	14.8
8	☐			188.89		P	25.1

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			57.78		P	29.6
2	☐			67.78		P	31.6
3	☐			81.11		P	19.0
4	☐			87.78		P	20.9
5	☐			96.67		P	17.9
6	☐			120.00		P	4.8
7	☐			160.00		P	7.5
8	☐			118.89		P	16.2

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	972.28	0.0001	P	10.8
2	☐	1.000	0.952	11752.56	0.0014	P	0.9
3	☐	50.000	48.450	539838.80	0.0653	P	3.6
4	☐	125.000	118.695	1362902.01	0.1599	P	1.1
5	☐	250.000	249.641	2847951.76	0.3362	A	0.8
6	☐	500.000	501.061	5691159.55	0.6747	A	0.8
7	☐	1000.000	1000.425	11593136.20	1.3470	A	1.1
8	☐			4378.59	0.0006	P	7.0

$$y = 0.0013 * x + 1.1577E-004$$

R = 1.0000

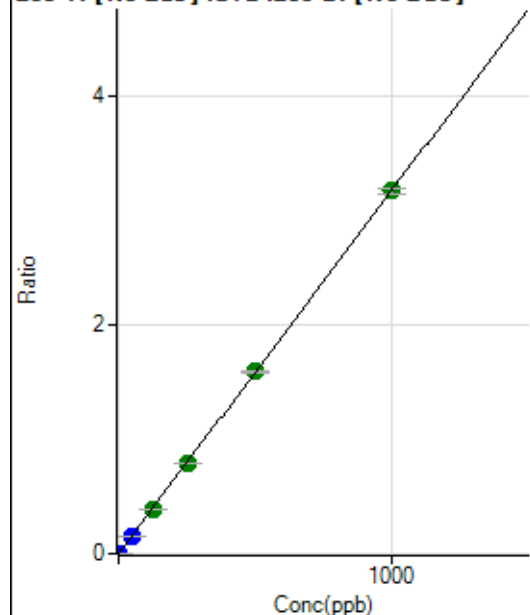
DL = 0.02796

BEC = 0.08599

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	2497.53	0.0003	P	5.7
2	☐	1.000	0.922	27052.38	0.0032	P	0.9
3	☐	50.000	48.890	1281625.02	0.1551	P	3.9
4	☐	125.000	122.462	3307634.10	0.3882	A	2.6
5	☐	250.000	249.376	6693167.99	0.7901	A	0.9
6	☐	500.000	501.602	13403224.17	1.5890	A	0.7
7	☐	1000.000	999.728	27253862.42	3.1667	A	1.3
8	☐			10201.34	0.0014	P	10.5

$$y = 0.0032 * x + 2.9773E-004$$

R = 1.0000

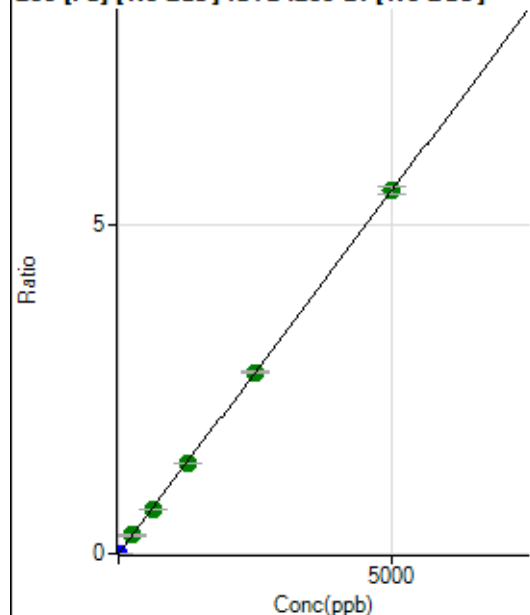
DL = 0.01613

BEC = 0.094

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	440.76	0.0001	P	11.4
2	☐	1.000	0.969	9453.42	0.0011	P	4.5
3	☐	250.000	254.280	2323746.55	0.2813	A	4.1
4	☐	625.000	618.249	5828213.96	0.6839	A	1.3
5	☐	1250.000	1247.841	11691791.58	1.3803	A	0.6
6	☐	2500.000	2500.507	23329813.48	2.7658	A	0.7
7	☐	5000.000	5000.916	47605265.41	5.5315	A	2.0
8	☐			9218.09	0.0012	P	3.4

$$y = 0.0011 * x + 5.2511E-005$$

$$R = 1.0000$$

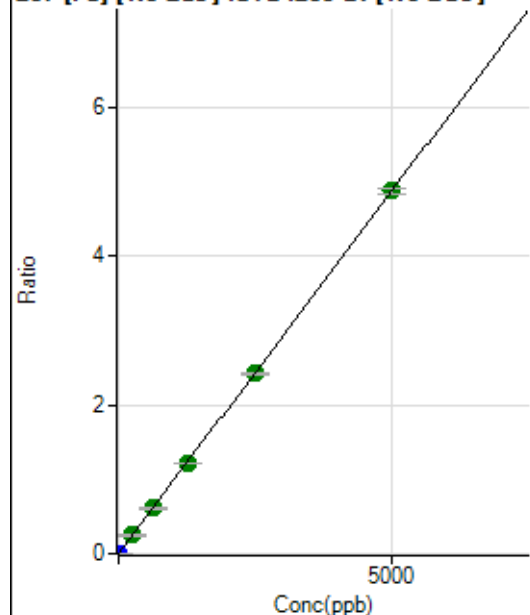
$$DL = 0.01622$$

$$BEC = 0.04747$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	398.16	0.0000	P	18.8
2	☐	1.000	0.918	7915.43	0.0009	P	1.2
3	☐	250.000	253.758	2043029.89	0.2473	A	3.5
4	☐	625.000	625.720	5195590.16	0.6097	A	2.1
5	☐	1250.000	1247.157	10292734.61	1.2152	A	0.2
6	☐	2500.000	2486.104	20431924.76	2.4223	A	0.5
7	☐	5000.000	5007.381	41988141.68	4.8788	A	1.8
8	☐			7802.35	0.0010	P	3.6

$$y = 9.7431E-004 * x + 4.7345E-005$$

$$R = 1.0000$$

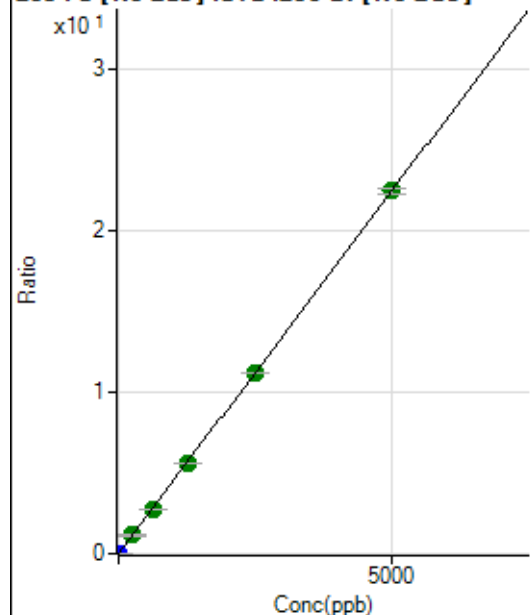
$$DL = 0.02734$$

$$BEC = 0.04859$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	2001.95	0.0002	P	2.0
2	☐	1.000	0.918	36669.85	0.0044	P	1.4
3	☐	250.000	253.691	9414522.51	1.1397	A	4.2
4	☐	625.000	619.478	23714884.73	2.7827	A	1.2
5	☐	1250.000	1241.261	47227441.33	5.5756	A	0.6
6	☐	2500.000	2490.409	94356571.32	11.1863	A	0.6
7	☐	5000.000	5007.486	193575391.82	22.4921	A	1.5
8	☐			36610.72	0.0049	P	3.1

$$y = 0.0045 * x + 2.3856E-004$$

$$R = 1.0000$$

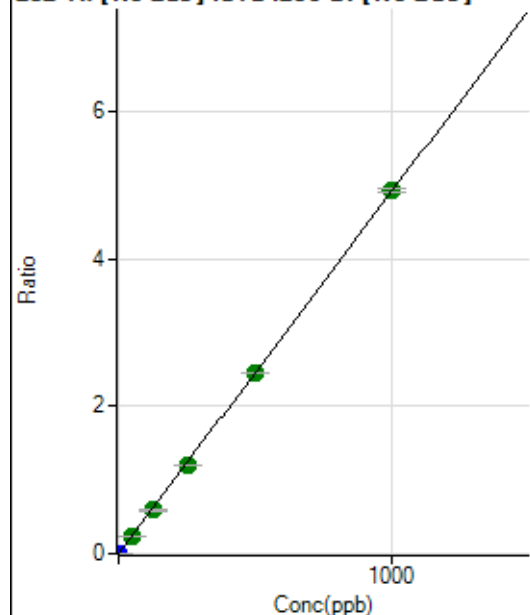
$$DL = 0.003115$$

$$BEC = 0.05311$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	138.89	0.0000	P	9.0
2	☐	1.000	0.841	34897.66	0.0042	P	0.8
3	☐	50.000	48.930	1986698.54	0.2405	A	4.3
4	☐	125.000	120.290	5039095.13	0.5913	A	1.3
5	☐	250.000	243.412	10133384.84	1.1964	A	1.0
6	☐	500.000	498.995	20688409.49	2.4527	A	0.6
7	☐	1000.000	1002.792	42421758.36	4.9290	A	1.0
8	☐			2013.16	0.0003	P	16.9

$$y = 0.0049 * x + 1.6532E-005$$

$$R = 1.0000$$

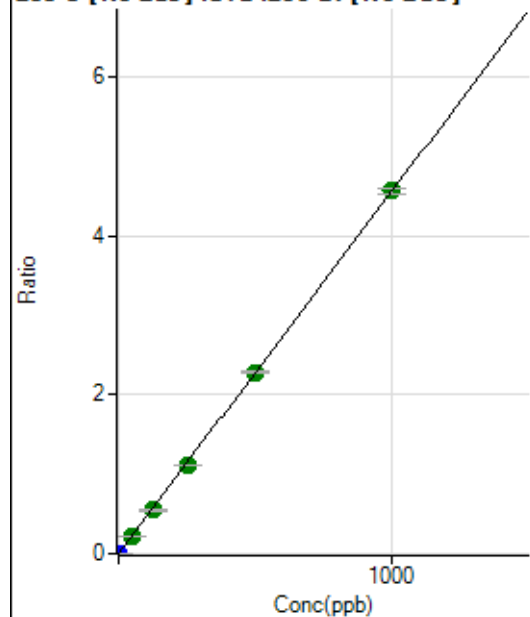
$$DL = 0.0009042$$

$$BEC = 0.003363$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	75.00	0.0000	P	46.7
2	☐	1.000	0.845	32446.11	0.0039	P	0.5
3	☐	50.000	49.215	1852672.26	0.2243	A	4.3
4	☐	125.000	120.048	4662418.90	0.5471	A	1.7
5	☐	250.000	243.590	9402615.23	1.1101	A	0.3
6	☐	500.000	499.993	19219157.03	2.2786	A	1.2
7	☐	1000.000	1002.264	39309091.50	4.5675	A	1.5
8	☐			2303.05	0.0003	P	10.6

$$y = 0.0046 * x + 8.8928E-006$$

$$R = 1.0000$$

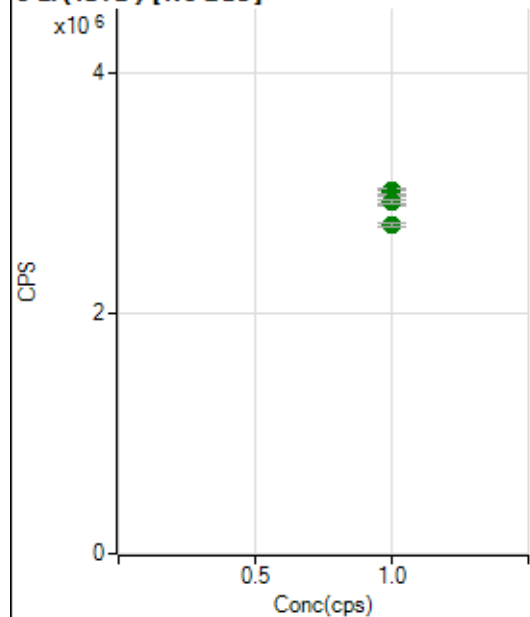
$$DL = 0.002736$$

$$BEC = 0.001951$$

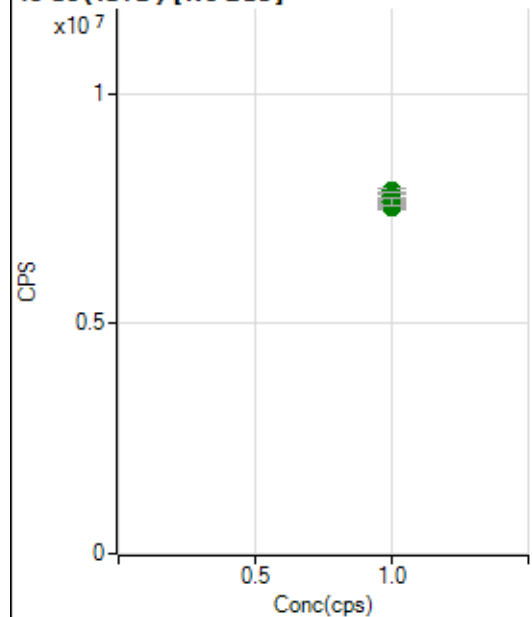
Weight: <None>

Min Conc: 0

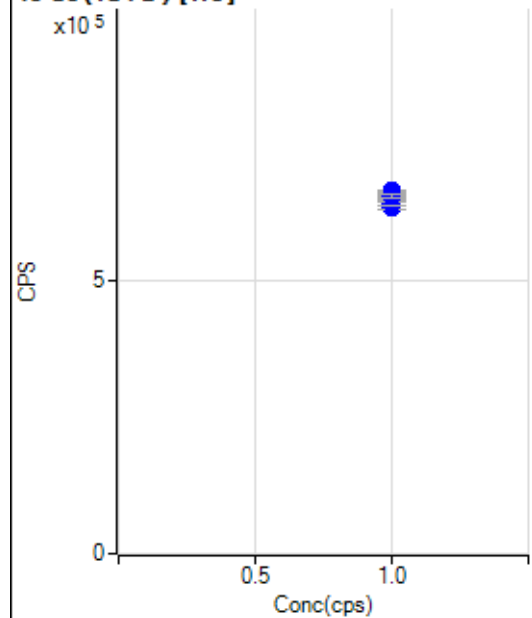
6 Li (ISTD) [No Gas]



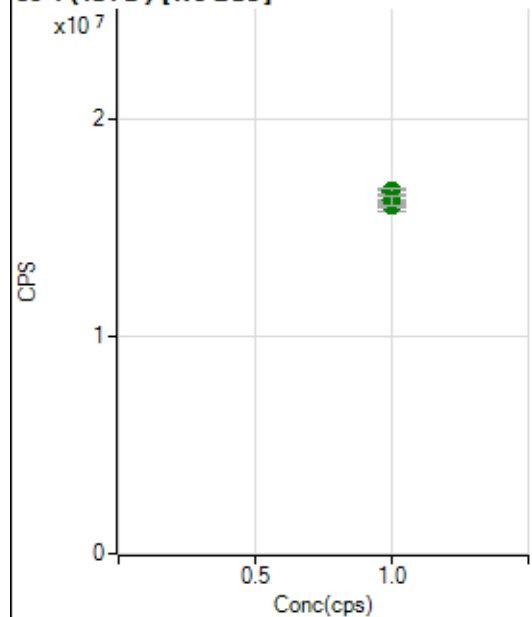
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		2975677.77		A	2.5
2	☐	1.000		3000241.38		A	1.5
3	☐	1.000		2936893.05		A	3.4
4	☐	1.000		3015280.27		A	1.6
5	☐	1.000		3015165.93		A	1.4
6	☐	1.000		2979649.05		A	0.5
7	☐	1.000		2930553.98		A	1.2
8	☐	1.000		2735712.70		A	1.0

45 Sc (ISTD) [No Gas]

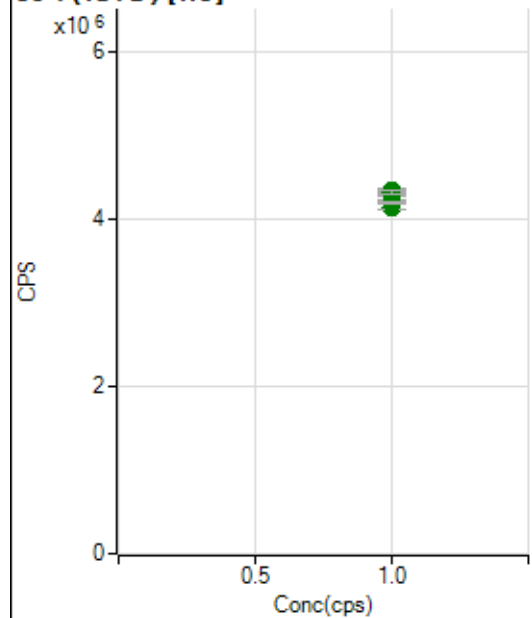
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		7746588.77		A	0.2
2	☐	1.000		7885532.94		A	1.5
3	☐	1.000		7603412.32		A	3.4
4	☐	1.000		7635742.66		A	0.9
5	☐	1.000		7532945.31		A	0.8
6	☐	1.000		7560309.96		A	0.2
7	☐	1.000		7775686.55		A	1.9
8	☐	1.000		7644515.44		A	2.2

45 Sc (ISTD) [He]

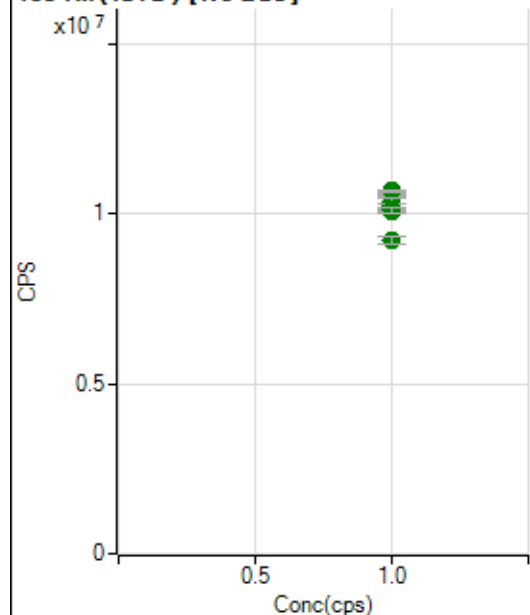
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		646412.62		P	0.9
2	☐	1.000		662247.62		P	0.7
3	☐	1.000		658626.96		P	0.7
4	☐	1.000		650015.11		P	1.3
5	☐	1.000		644901.49		P	0.4
6	☐	1.000		632334.07		P	0.7
7	☐	1.000		639388.31		P	0.8
8	☐	1.000		653665.15		P	1.1

89 Y (ISTD) [No Gas]

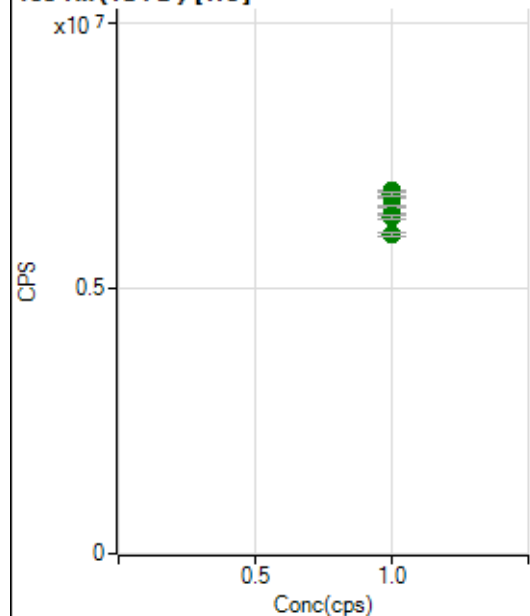
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		16498270.31		A	0.2
2	☐	1.000		16669436.00		A	1.1
3	☐	1.000		16035679.34		A	3.0
4	☐	1.000		16216120.87		A	1.3
5	☐	1.000		16070315.87		A	1.2
6	☐	1.000		16284757.81		A	0.4
7	☐	1.000		16732970.44		A	1.5
8	☐	1.000		16290077.68		A	2.5

89 Y (ISTD) [He]

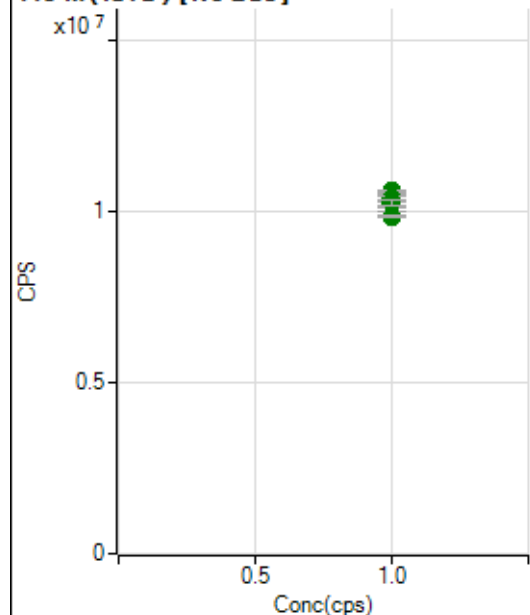
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		4296479.00		A	0.9
2	☐	1.000		4330381.67		A	1.1
3	☐	1.000		4312791.81		A	0.9
4	☐	1.000		4188641.26		A	1.0
5	☐	1.000		4210056.64		A	1.0
6	☐	1.000		4141843.65		A	1.2
7	☐	1.000		4182587.79		A	0.8
8	☐	1.000		4315910.94		A	1.4

103 Rh (ISTD) [No Gas]

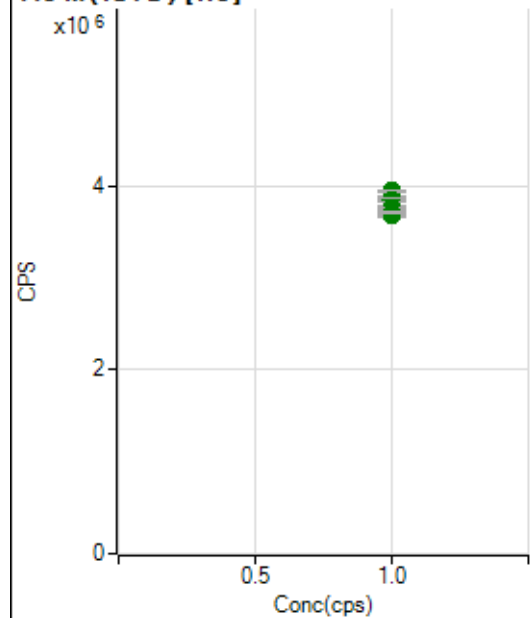
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		10545761.23		A	0.5
2	☐	1.000		10669892.20		A	0.5
3	☐	1.000		10250613.39		A	4.6
4	☐	1.000		10372551.23		A	1.4
5	☐	1.000		10079812.84		A	0.9
6	☐	1.000		10066391.03		A	0.4
7	☐	1.000		10102551.17		A	1.4
8	☐	1.000		9207171.46		A	2.5

103 Rh (ISTD) [He]

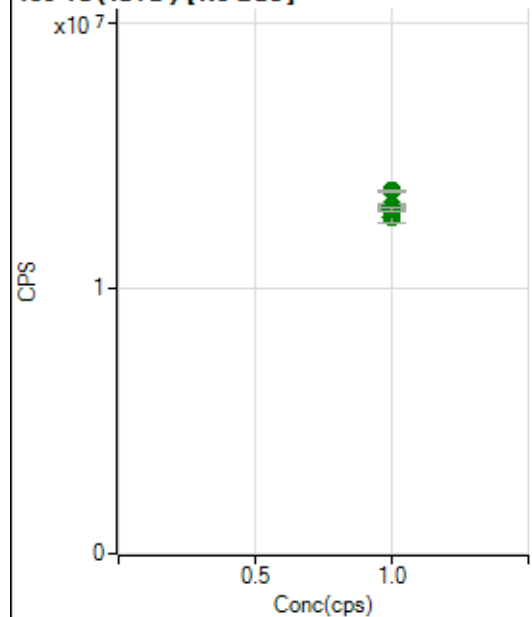
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		6723407.75		A	0.7
2	☐	1.000		6841169.69		A	0.6
3	☐	1.000		6779229.97		A	1.5
4	☐	1.000		6570467.89		A	0.1
5	☐	1.000		6548589.21		A	0.5
6	☐	1.000		6399608.86		A	1.1
7	☐	1.000		6342031.99		A	1.1
8	☐	1.000		6022344.63		A	0.9

115 In (ISTD) [No Gas]

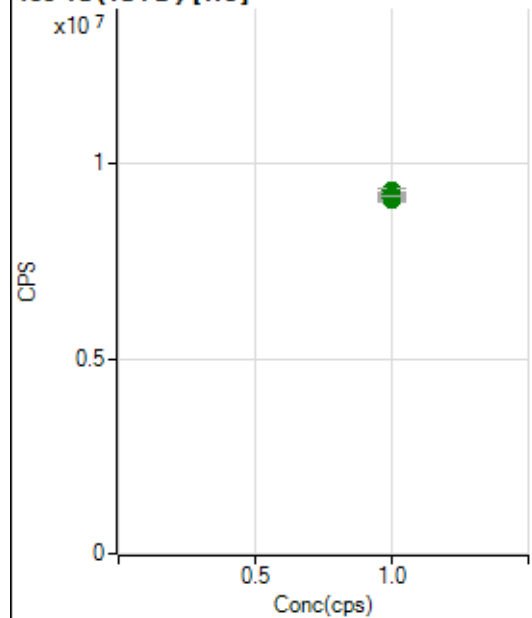
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		10553793.88		A	1.4
2	☐	1.000		10592440.44		A	0.8
3	☐	1.000		10191001.64		A	4.4
4	☐	1.000		10373862.99		A	1.4
5	☐	1.000		10191694.86		A	1.4
6	☐	1.000		10192777.29		A	1.2
7	☐	1.000		10264948.66		A	1.5
8	☐	1.000		9845242.77		A	0.7

115 In (ISTD) [He]

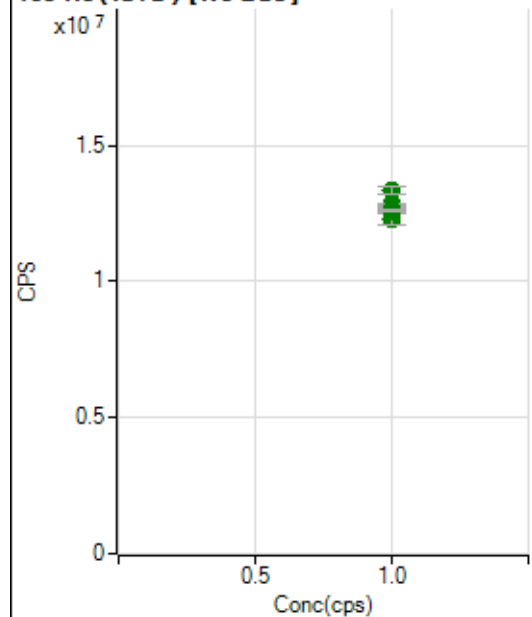
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		3865482.38		A	1.0
2	☐	1.000		3949765.01		A	0.5
3	☐	1.000		3856231.57		A	0.9
4	☐	1.000		3775821.52		A	0.4
5	☐	1.000		3756037.54		A	0.2
6	☐	1.000		3698591.73		A	1.5
7	☐	1.000		3676147.25		A	0.2
8	☐	1.000		3714077.19		A	0.9

159 Tb (ISTD) [No Gas]

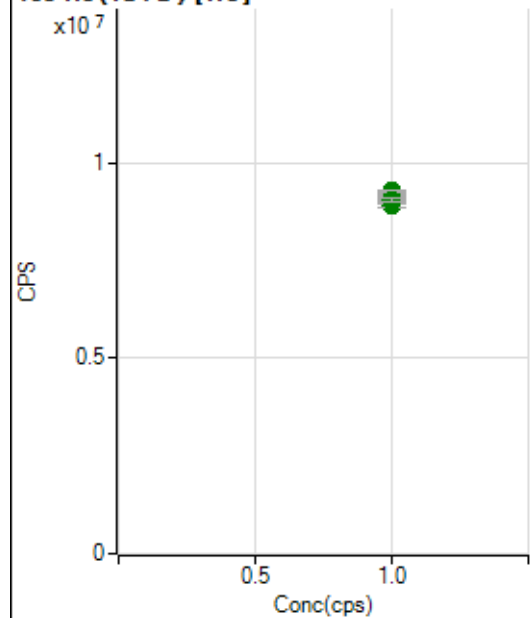
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		12956630.64		A	0.6
2	☐	1.000		13058833.83		A	0.1
3	☐	1.000		12684576.89		A	3.8
4	☐	1.000		13068197.58		A	0.9
5	☐	1.000		13037709.80		A	2.2
6	☐	1.000		13108348.69		A	1.3
7	☐	1.000		13668704.38		A	0.8
8	☐	1.000		12962013.14		A	1.1

159 Tb (ISTD) [He]

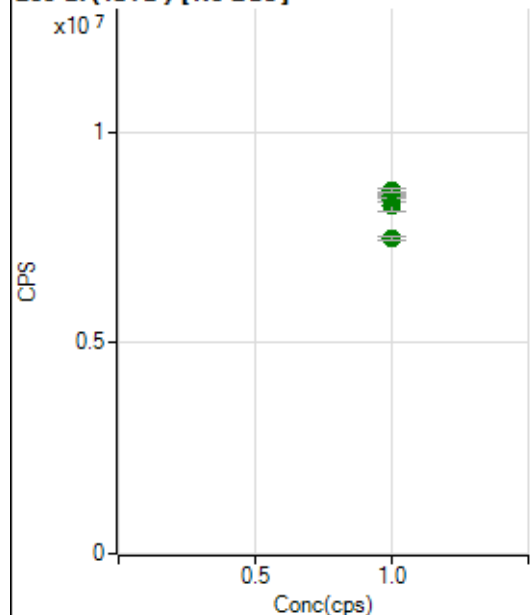
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		9096680.35		A	1.7
2	☐	1.000		9273515.76		A	0.5
3	☐	1.000		9201299.38		A	1.1
4	☐	1.000		9152116.11		A	1.6
5	☐	1.000		9237488.89		A	0.9
6	☐	1.000		9229139.45		A	0.8
7	☐	1.000		9311144.86		A	0.9
8	☐	1.000		9181589.79		A	0.3

165 Ho (ISTD) [No Gas]

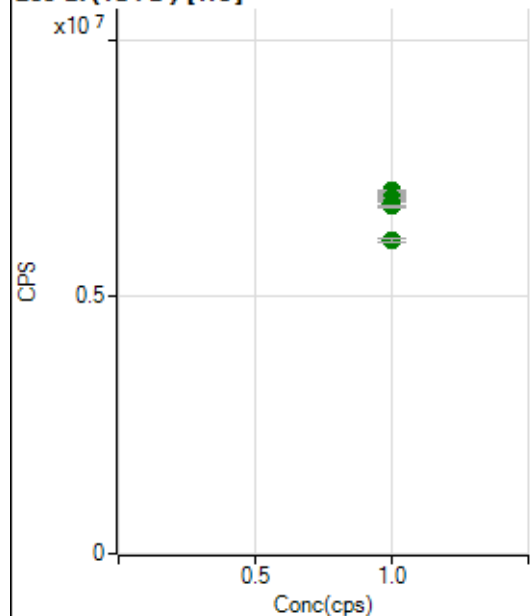
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		12547990.78		A	1.2
2	☐	1.000		12584102.59		A	1.1
3	☐	1.000		12309938.29		A	4.1
4	☐	1.000		12583714.81		A	1.6
5	☐	1.000		12638470.09		A	1.8
6	☐	1.000		12823616.33		A	0.5
7	☐	1.000		13327997.99		A	2.1
8	☐	1.000		12628519.12		A	0.4

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		8923536.33		A	1.1
2	☐	1.000		9177042.29		A	0.3
3	☐	1.000		9015197.64		A	1.2
4	☐	1.000		9063477.71		A	2.2
5	☐	1.000		9139774.38		A	0.7
6	☐	1.000		9110620.63		A	1.1
7	☐	1.000		9280154.30		A	0.4
8	☐	1.000		9046988.34		A	0.8

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		8393534.94		A	1.6
2	☐	1.000		8408228.35		A	0.9
3	☐	1.000		8268926.62		A	3.7
4	☐	1.000		8523110.43		A	1.4
5	☐	1.000		8470331.40		A	1.2
6	☐	1.000		8434937.03		A	0.3
7	☐	1.000		8607204.87		A	1.1
8	☐	1.000		7485375.65		A	1.4

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		6933580.17		A	1.1
2	☐	1.000		7060325.24		A	0.4
3	☐	1.000		6929320.66		A	0.2
4	☐	1.000		6937097.33		A	2.0
5	☐	1.000		6910909.00		A	0.7
6	☐	1.000		6803553.65		A	0.8
7	☐	1.000		6768541.01		A	0.5
8	☐	1.000		6097215.33		A	1.0

US EPA Tune Check Report

Operator Name Jaswal

Acq/Data Batch D:\Agilent\ICPMH\1\DATA\IP7042522MS.b

Acq. Date-Time 2022-04-25 11:09:53

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		10874	108737.45			0.157	5.000
24		112471	1124713.98			0.588	5.000
25		14878	148776.66			0.435	5.000
26		17072	170724.15			0.580	5.000
59		29281	292810.86			0.236	5.000
113		12762	127621.91			0.795	5.000
115		36441	364408.34			1.990	5.000
206		16807	168074.68			0.720	5.000
207		14326	143264.10			0.447	5.000
208		34760	347600.17			0.597	5.000
220		0	1.90			70.613	

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

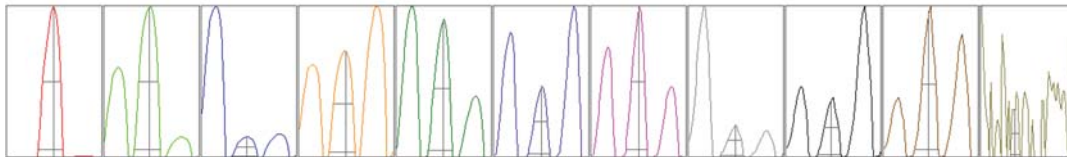
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	10869	10877	10900	10870	10853
24	113491	112171	112774	111897	112025
25	14990	14853	14844	14829	14872
26	17173	17153	16985	17098	16953
59	29231	29402	29263	29245	29265
113	12881	12859	12728	12665	12678
115	37382	36985	36277	35883	35677
206	16777	16831	16897	16615	16918
207	14312	14361	14352	14385	14222
208	34977	34865	34761	34775	34423

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	20353.04	9.00	8.90 - 9.10	
24	191494.68	23.95	23.90 - 24.10	
25	25109.75	24.95	24.90 - 25.10	
26	28800.43	26.00	25.90 - 26.10	
59	59337.55	59.00	58.90 - 59.10	
113	30379.60	113.05	112.90 - 113.10	
115	88475.27	115.05	114.90 - 115.10	
206	38520.60	206.00	205.90 - 206.10	
207	31125.25	206.95	206.90 - 207.10	
208	78277.01	207.95	207.90 - 208.10	
220	0.25	219.60	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.57	0.777	0.900	
24	0.61	0.820	0.900	
25	0.62	0.789	0.900	
26	0.62	0.823	0.900	
59	0.51	0.763	0.900	
113	0.43	0.680	0.900	
115	0.42	0.678	0.900	
206	0.45	0.731	0.900	
207	0.46	0.727	0.900	
208	0.44	0.746	0.900	
220	0.25	0.295		

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode --- Nebulizer Gas 0.73 L/min Dilution Gas 0.40 L/min

US EPA Tune Check Report

RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.80 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	8.6 V	Deflect	14.6 V
Extract 2	-150.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-75 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	123	Axis Gain	1.0001	QP Bias	-3.0 V
Mass Offset	125	Axis Offset	-0.01		

Hardware Settings

Torch

Torch H	-0.8 mm	Torch V	0.9 mm
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EM

Discriminator	3.1 mV	Analog HV	2167 V	Pulse HV	1420 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		10210	102104.83			2.107	
89		50350	503503.04			2.856	
205		57684	576842.17			1.724	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	10368	9832	10306	10264	10282
89	51538	47900	51073	50314	50927
205	58291	55961	57779	57985	58405

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.73 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	9.2 V	Deflect	3.4 V
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US EPA Tune Check Report

Extract 2	-155.0 V	Cell Entrance	-40 V	Plate Bias	-60 V
Omega Bias	-70 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	200 V		

QP Parameters

Mass Gain	123	Axis Gain	1.0001	QP Bias	-13.0 V
Mass Offset	125	Axis Offset	-0.01		

Hardware Settings

Torch

Torch H	-0.8 mm	Torch V	0.9 mm
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EM

Discriminator	3.1 mV	Analog HV	2167 V	Pulse HV	1420 V
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