

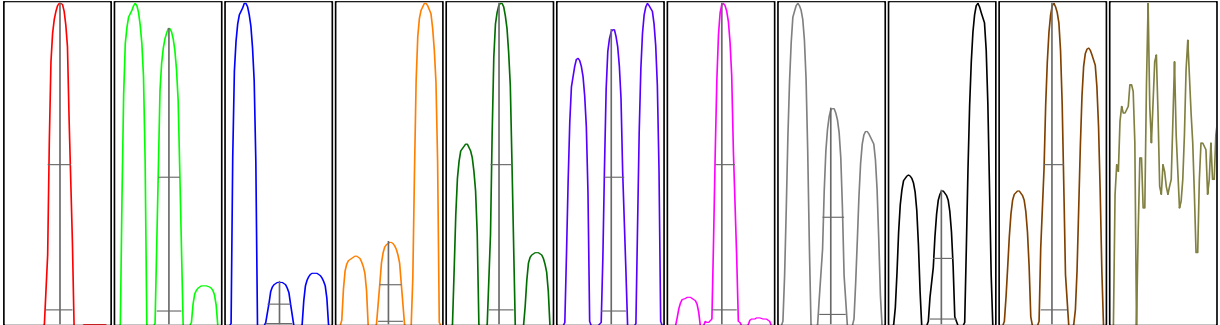
US EPA Tune Check Sample Report

Batch Folder D:\P8071417.b
Report Comment
Instrument Name G8403A JP17141814

[No Gas]				
Mass	Count (Mean)	RSD% (Actual)	RSD% (Required)	RSD% (Flag)
9	5227	1.82	5.00	
24	36549	1.70	5.00	
25	4992	1.55	5.00	
26	5925	1.99	5.00	
59	67009	1.52	5.00	
113	7361	2.29	5.00	
115	91987	2.96	5.00	
206	14655	1.11	5.00	
207	13132	1.09	5.00	
208	31517	1.41	5.00	
220	1	9.47		

Mass	Replicate 1 Count	Replicate 2 Count	Replicate 3 Count	Replicate 4 Count	Replicate 5 Count
9	5316	5246	5279	5227	5068
24	37173	36971	36807	36074	35719
25	5046	5029	5062	4943	4881
26	6002	5991	6025	5856	5750
59	67705	67646	67885	66064	65747
113	7532	7507	7393	7215	7159
115	95126	94206	92087	89346	89171
206	14743	14787	14770	14559	14416
207	13212	13274	13178	13089	12907
208	31608	32023	31825	31160	30968
220	1	1	1	1	1

Integration Time [sec] = 0.1



Mass	Peak Height	Axis (Actual)	Axis (Required)	Axis (Flag)	Width-X% (Actual)	Width-X% (Required)	Width- X% (Flag)
9	8598	9.10	8.9 - 9.1		0.779	0.900	
24	58850	24.05	23.9 - 24.1		0.741	0.900	
25	8002	25.05	24.9 - 25.1		0.764	0.900	
26	9603	26.00	25.9 - 26.1		0.742	0.900	
59	113392	59.00	58.9 - 59.1		0.737	0.900	
113	13670	113.05	112.9 - 113.1		0.727	0.900	
115	168610	115.05	114.9 - 115.1		0.735	0.900	
206	26240	206.00	205.9 - 206.1		0.771	0.900	
207	23483	207.00	206.9 - 207.1		0.757	0.900	
208	56179	208.00	207.9 - 208.1		0.776	0.900	
220			-				

X% = 5 Integration Time [sec] = 0.1 Acquisition Time [sec] = 268 Y Axis = Linear

Tune Parameters

Plasma Paramters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
Plasma Mode		HMI	Aerosol Dilution		HMI-8			

Lenses Parameters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
Extract 1	0.0	V	Omega Lens	10.5	V	Deflect	13.8	V
Extract 2	-250.0	V	Cell Entrance	-30	V	Plate Bias	-35	V
Omega Bias	-115	V	Cell Exit	-50	V			

Cell Parameters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
Use Gas	No		OctP Bias	-8.0	V	Energy Discrimination	5.0	V
He Flow	0.0	mL/min	OctP RF	190	V			

[He]

Mass	Count (Mean)	RSD% (Actual)	RSD% (Required)
59	11933	1.24	
89	3265	1.44	
205	12748	1.30	

Mass	Replicate 1 Count	Replicate 2 Count	Replicate 3 Count	Replicate 4 Count	Replicate 5 Count
59	12103	11967	11956	11694	11945
89	3300	3292	3288	3185	3261
205	12897	12831	12817	12475	12720

Integration Time [sec] = 0.1

Tune Parameters

Plasma Paramters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
Plasma Mode		HMI	Aerosol Dilution		HMI-8			

Lenses Parameters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
Extract 1	0.0	V	Omega Lens	10.5	V	Deflect	2.2	V
Extract 2	-250.0	V	Cell Entrance	-40	V	Plate Bias	-60	V
Omega Bias	-115	V	Cell Exit	-60	V			

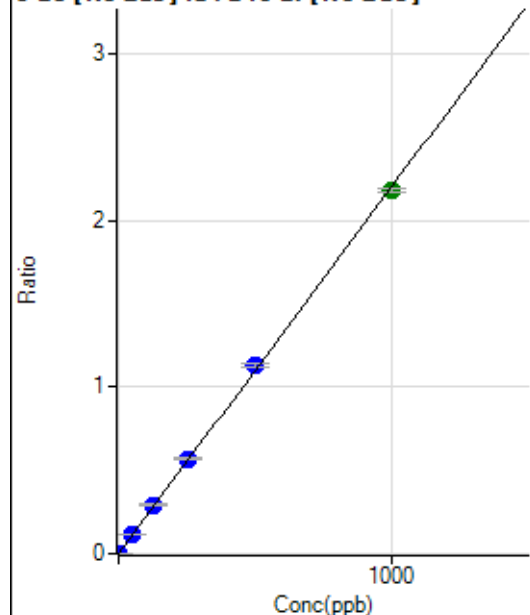
Cell Parameters

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

Batch Folder: D:\P8071417.b\
Analysis File: P8071417.batch.bin
DA Date-Time: 2017-07-14 16:29:23
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	003CALB.d	S00	2017-07-14 11:43:02
2			
3	005CALS.d	S02	2017-07-14 11:49:50
4	006CALS.d	S03	2017-07-14 11:53:22
5	007CALS.d	S04	2017-07-14 11:56:53
6	008CALS.d	S05	2017-07-14 12:00:22
7	009CALS.d	S06	2017-07-14 12:03:44
8	010CALS.d	S07	2017-07-14 12:07:01
9	011CALS.d	S08	2017-07-14 12:10:11

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	25.92	0.0001	P	25.0
2	☐	0.100					
3	☐	1.000	0.948	900.06	0.0021	P	15.0
4	☐	50.000	54.877	51284.36	0.1209	P	0.5
5	☐	125.000	133.616	129625.64	0.2942	P	1.2
6	☐	250.000	259.478	260912.97	0.5712	P	0.3
7	☐	500.000	513.547	536452.53	1.1305	P	1.6
8	☐	1000.000	989.536	1111186.34	2.1782	A	1.0
9	☐			375.94	0.0007	P	8.5

$$y = 0.0022 * x + 6.1042E-005$$

$$R = 0.9998$$

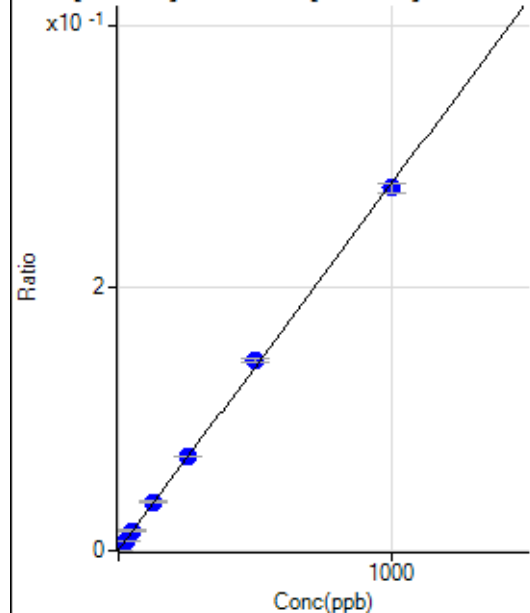
$$DL = 0.02077$$

$$BEC = 0.02773$$

Weight: <None>

Min Conc: 0

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	161.12	0.0004	P	13.1
2	☐	2.500					
3	☐	25.000	22.562	2794.84	0.0067	P	2.2
4	☐	50.000	53.689	6518.45	0.0154	P	1.9
5	☐	125.000	132.313	16435.09	0.0373	P	3.0
6	☐	250.000	256.770	32899.68	0.0720	P	0.5
7	☐	500.000	518.207	68804.80	0.1450	P	1.4
8	☐	1000.000	988.166	140858.70	0.2761	P	2.5
9	☐			5320.64	0.0100	P	3.1

$$y = 2.7903E-004 * x + 3.7926E-004$$

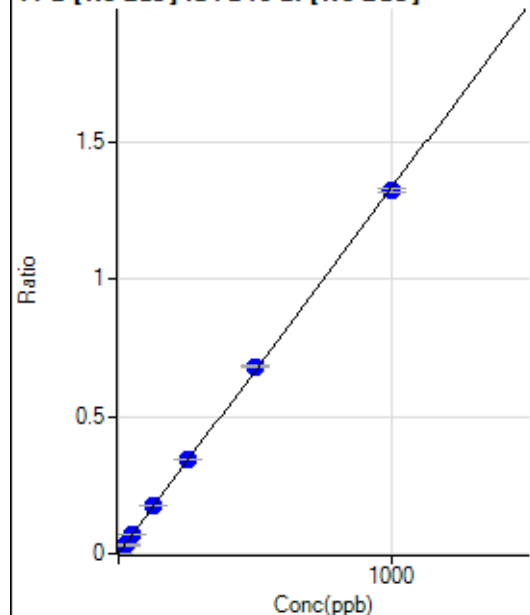
$$R = 0.9997$$

$$DL = 0.5325$$

$$BEC = 1.359$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	727.83	0.0017	P	2.0
2	☐	2.500					
3	☐	25.000	22.638	13309.46	0.0318	P	4.1
4	☐	50.000	53.143	30686.62	0.0723	P	2.4
5	☐	125.000	130.651	77247.24	0.1753	P	2.3
6	☐	250.000	256.030	156142.57	0.3419	P	1.5
7	☐	500.000	511.378	323290.00	0.6811	P	0.6
8	☐	1000.000	991.999	673192.14	1.3196	P	1.0
9	☐			25167.31	0.0475	P	7.0

$$y = 0.0013 * x + 0.0017$$

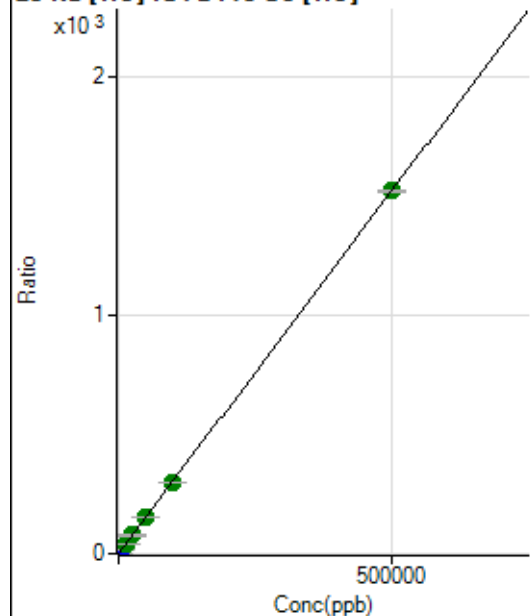
$$R = 0.9999$$

$$DL = 0.07917$$

$$BEC = 1.29$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	6095.99	0.1725	P	4.6
2	☐	50.000					
3	☐	500.000	457.143	55406.00	1.5640	P	3.0
4	☐	5000.000	5081.745	557780.47	15.6413	P	1.0
5	☐	12500.000	12957.423	1427075.74	39.6149	A	1.0
6	☐	25000.000	25240.785	2783963.73	77.0055	A	1.5
7	☐	50000.000	49260.370	5430057.15	150.1212	A	0.3
8	☐	100000.00	98106.398	10605314.21	298.8087	A	0.5
9	☐	500000.00	500428.43	53734684.53	1,523.478	A	0.6

$$y = 0.0030 * x + 0.1725$$

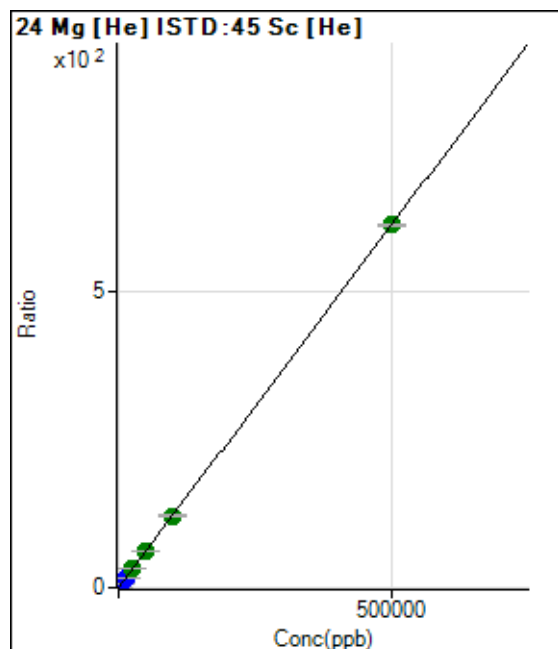
$$R = 1.0000$$

$$DL = 7.865$$

$$BEC = 56.66$$

Weight: <None>

Min Conc: 0



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	100.00	0.0028	P	22.5
2	☐	50.000					
3	☐	500.000	459.022	20084.42	0.5669	P	0.9
4	☐	5000.000	5180.582	227102.13	6.3685	P	1.2
5	☐	12500.000	12937.558	572778.60	15.8999	P	0.8
6	☐	25000.000	25368.411	1127125.78	31.1744	A	0.3
7	☐	50000.000	50503.694	2244720.10	62.0595	A	1.0
8	☐	100000.00	99284.783	4329954.18	121.9995	A	0.7
9	☐	500000.00	500061.55	21672478.78	614.4559	A	0.5

$$y = 0.0012 * x + 0.0028$$

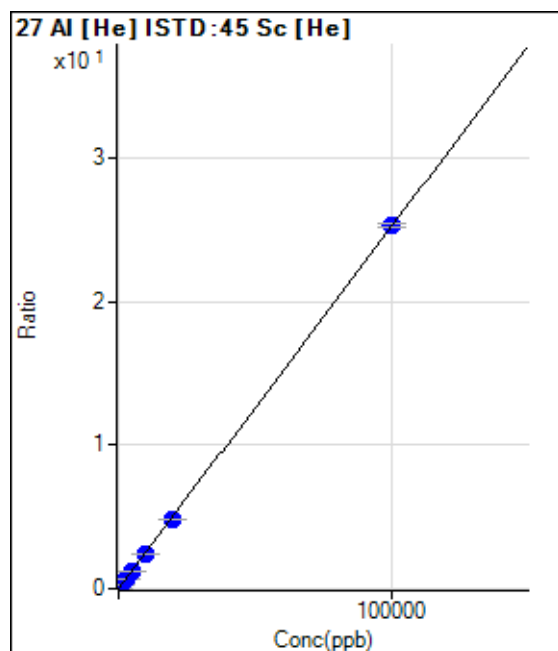
$$R = 1.0000$$

$$DL = 1.552$$

$$BEC = 2.304$$

Weight: <None>

Min Conc: 0



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	22.22	0.0006	P	94.9
2	☐	2.000					
3	☐	20.000	19.223	194.45	0.0055	P	16.3
4	☐	1000.000	994.049	8978.25	0.2517	P	1.9
5	☐	2500.000	2469.411	22496.52	0.6244	P	2.0
6	☐	5000.000	4906.425	44830.42	1.2400	P	1.0
7	☐	10000.000	9685.208	88511.98	2.4470	P	0.2
8	☐	20000.000	19189.634	172062.03	4.8478	P	1.2
9	☐	100000.00	100199.05	892698.78	25.3102	P	1.0

$$y = 2.5259E-004 * x + 6.3244E-004$$

$$R = 1.0000$$

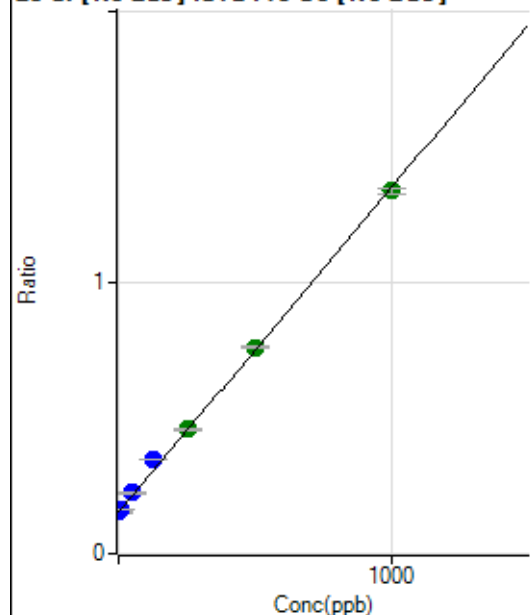
$$DL = 7.125$$

$$BEC = 2.504$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	421596.73	0.1527	P	2.5
2	☐	1.000					
3	☐	10.000	7.018	444730.76	0.1611	P	0.9
4	☐	50.000	60.615	635721.45	0.2255	P	2.1
5	☐	125.000	162.902	985014.40	0.3482	P	0.4
6	☐	250.000	254.690	1308379.50	0.4584	A	1.9
7	☐	500.000	508.779	2176188.98	0.7633	A	0.4
8	☐	1000.000	989.199	3869570.10	1.3399	A	1.3
9	☐			468181.49	0.1636	P	1.0

$$y = 0.0012 * x + 0.1527$$

$$R = 0.9992$$

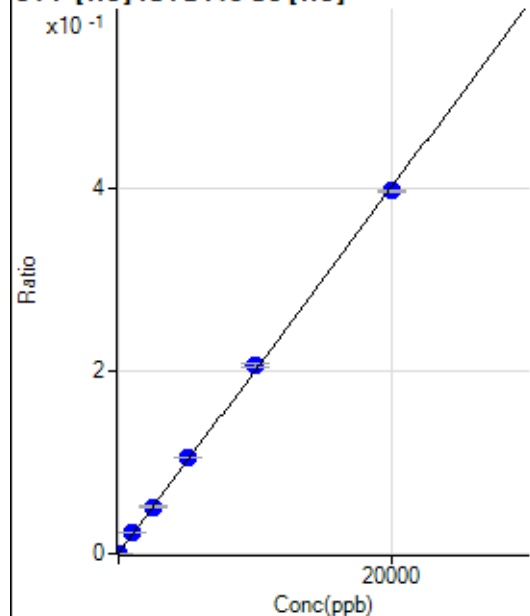
$$DL = 9.601$$

$$BEC = 127.2$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	5.928	13.89	0.0004	P	91.2
2	☐	0.000					
3	☐	0.000	-5.928	5.55	0.0002	P	86.6
4	☐	1000.000	1115.236	805.62	0.0226	P	4.1
5	☐	2500.000	2553.167	1850.20	0.0514	P	3.3
6	☐	5000.000	5217.574	3784.01	0.1047	P	1.0
7	☐	10000.000	10257.772	7432.83	0.2055	P	1.7
8	☐	20000.000	19804.313	14071.43	0.3965	P	0.4
9	☐			13.89	0.0004	P	69.9

$$y = 2.0005E-005 * x + 2.7517E-004$$

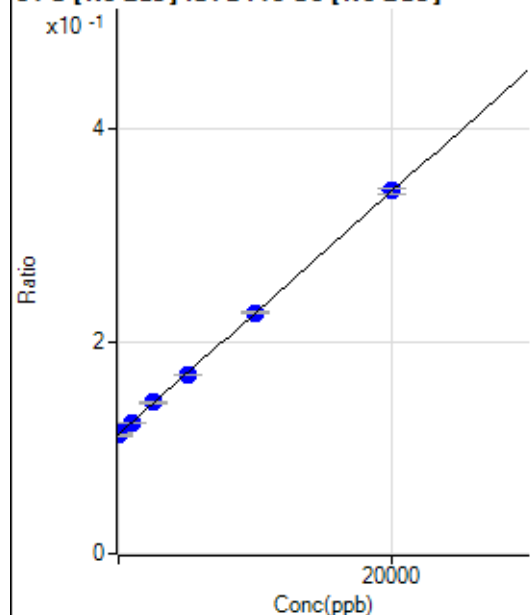
$$R = 0.9998$$

$$DL = 37.11$$

$$BEC = 13.76$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	66.789	312943.18	0.1134	P	0.5
2	☐	0.000					
3	☐	0.000	-66.789	308663.34	0.1118	P	0.9
4	☐	1000.000	910.442	346831.65	0.1230	P	0.5
5	☐	2500.000	2620.060	403195.66	0.1425	P	1.0
6	☐	5000.000	4839.763	479278.14	0.1679	P	0.2
7	☐	10000.000	9977.349	646051.83	0.2266	P	0.7
8	☐	20000.000	20040.855	986564.22	0.3416	P	1.4
9	☐			359328.90	0.1256	P	0.9

$$y = 1.1428\text{E-}005 * x + 0.1126$$

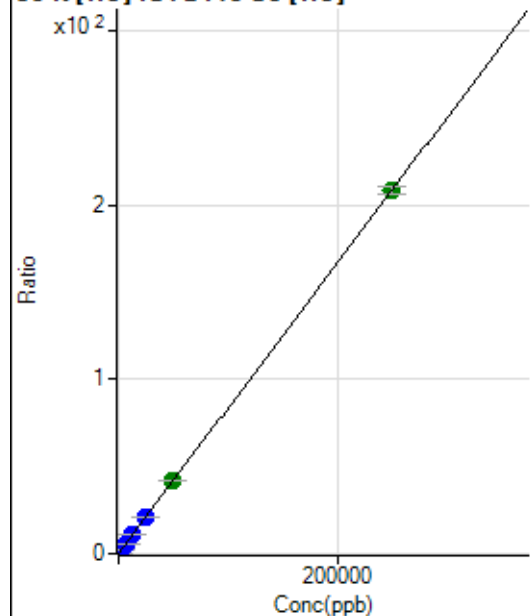
$$R = 0.9999$$

$$DL = 219.2$$

$$BEC = 9853$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	4473.16	0.1265	P	7.6
2	☐	50.000					
3	☐	500.000	461.338	18092.94	0.5106	P	0.3
4	☐	2500.000	2541.423	79977.12	2.2427	P	1.3
5	☐	6250.000	6342.324	194813.19	5.4078	P	0.7
6	☐	12500.000	12579.141	383238.25	10.6012	P	1.9
7	☐	25000.000	24707.212	748733.53	20.7003	P	1.0
8	☐	50000.000	50054.822	1483826.25	41.8075	A	0.7
9	☐	250000.00	250011.71	7346917.18	208.3131	A	2.1

$$y = 8.3271\text{E-}004 * x + 0.1265$$

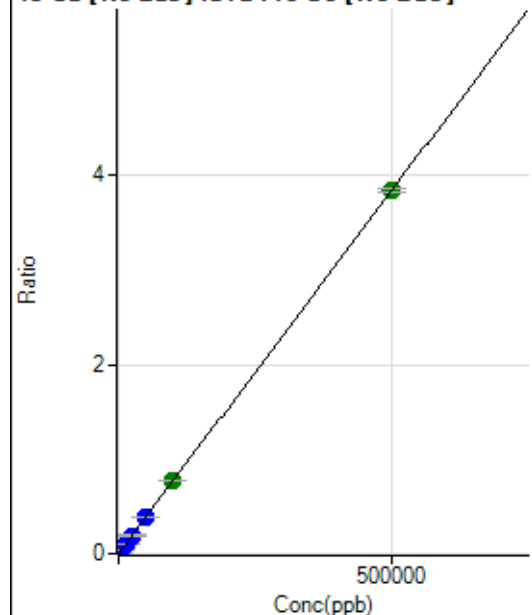
$$R = 1.0000$$

$$DL = 34.47$$

$$BEC = 151.9$$

Weight: <None>

Min Conc: 0

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

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	3139.40	0.0011	P	0.9
2	☐	50.000					
3	☐	500.000	416.088	11944.50	0.0043	P	1.4
4	☐	5000.000	4979.074	110854.97	0.0393	P	0.2
5	☐	12500.000	12587.238	276227.16	0.0977	P	0.4
6	☐	25000.000	24915.336	548556.10	0.1922	P	1.2
7	☐	50000.000	50022.658	1096704.93	0.3847	P	0.2
8	☐	100000.00	100281.47	2223873.77	0.7701	A	1.3
9	☐	500000.00	499943.78	10973557.71	3.8346	A	1.2

$$y = 7.6677\text{E-}006 * x + 0.0011$$

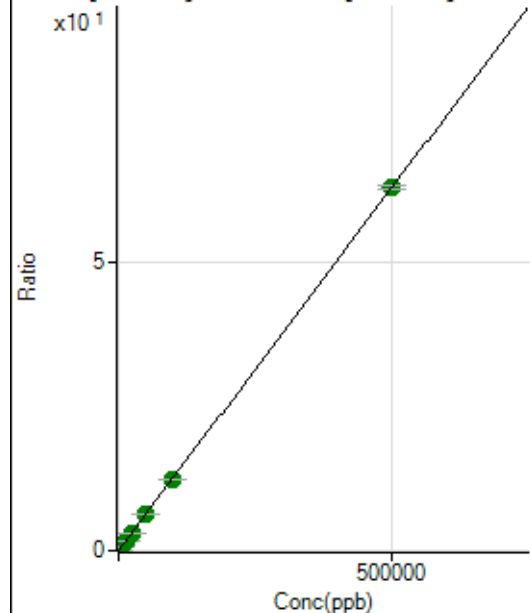
R = 1.0000

DL = 4.079

BEC = 148.3

Weight: <None>

Min Conc: 0

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

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	62610.10	0.0227	P	0.5
2	☐	50.000					
3	☐	500.000	434.979	213806.74	0.0775	P	0.2
4	☐	5000.000	5062.319	1861771.87	0.6603	A	0.6
5	☐	12500.000	12486.451	4512761.17	1.5954	A	0.6
6	☐	25000.000	24701.660	8945377.37	3.1339	A	0.5
7	☐	50000.000	49826.291	17955645.71	6.2984	A	0.3
8	☐	100000.00	98627.198	35940057.75	12.4450	A	1.1
9	☐	500000.00	500306.62	180398652.6	63.0375	A	1.0

$$y = 1.2595\text{E-}004 * x + 0.0227$$

R = 1.0000

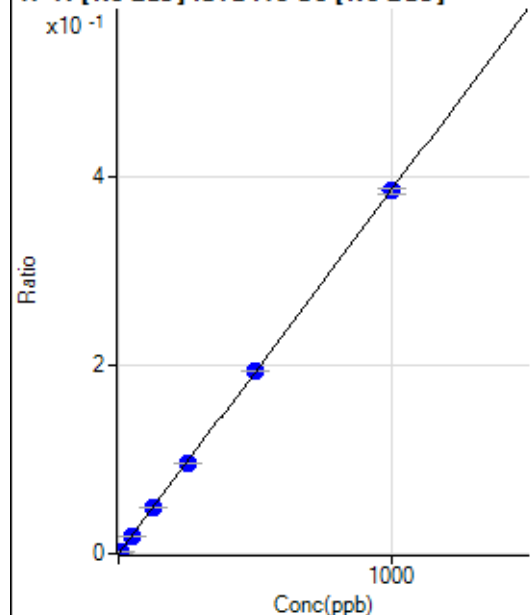
DL = 2.674

BEC = 180.1

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	188.90	0.0001	P	10.5
2	☐	0.500					
3	☐	5.000	4.282	4742.69	0.0017	P	3.9
4	☐	50.000	49.876	54381.60	0.0193	P	0.8
5	☐	125.000	126.886	138484.69	0.0490	P	1.0
6	☐	250.000	250.611	275823.52	0.0966	P	0.0
7	☐	500.000	503.364	553120.06	0.1940	P	0.4
8	☐	1000.000	997.939	1110619.67	0.3846	P	1.5
9	☐			2210.36	0.0008	P	61.1

$$y = 3.8531E-004 * x + 6.8444E-005$$

$$R = 1.0000$$

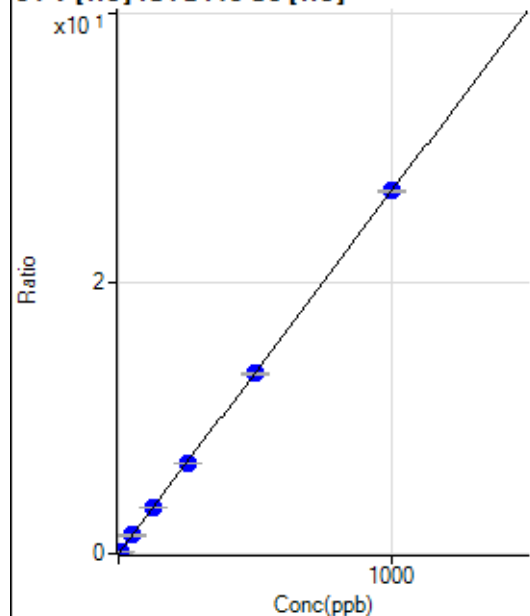
$$DL = 0.05586$$

$$BEC = 0.1776$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	17.78	0.0005	P	46.4
2	☐	0.500					
3	☐	5.000	4.579	4367.43	0.1232	P	1.9
4	☐	50.000	50.449	48243.98	1.3529	P	1.2
5	☐	125.000	126.432	122114.50	3.3897	P	0.6
6	☐	250.000	250.490	242783.76	6.7154	P	1.1
7	☐	500.000	497.825	482712.53	13.3456	P	1.3
8	☐	1000.000	1000.766	952176.44	26.8279	P	0.5
9	☐			564.47	0.0160	P	8.8

$$y = 0.0268 * x + 5.0133E-004$$

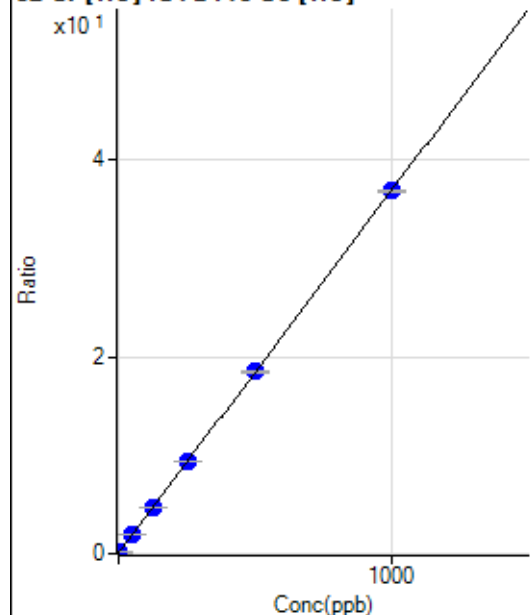
$$R = 1.0000$$

$$DL = 0.02603$$

$$BEC = 0.0187$$

Weight: <None>

Min Conc: 0

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

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1418.98	0.0401	P	6.4
2	☐	0.200					
3	☐	2.000	1.854	3840.59	0.1084	P	1.3
4	☐	50.000	51.489	69015.83	1.9354	P	1.1
5	☐	125.000	127.784	170883.14	4.7437	P	1.4
6	☐	250.000	252.021	336836.22	9.3166	P	0.8
7	☐	500.000	500.037	667185.69	18.4457	P	0.9
8	☐	1000.000	999.054	1306597.95	36.8137	P	0.4
9	☐			34851.23	0.9880	P	0.6

$$y = 0.0368 * x + 0.0401$$

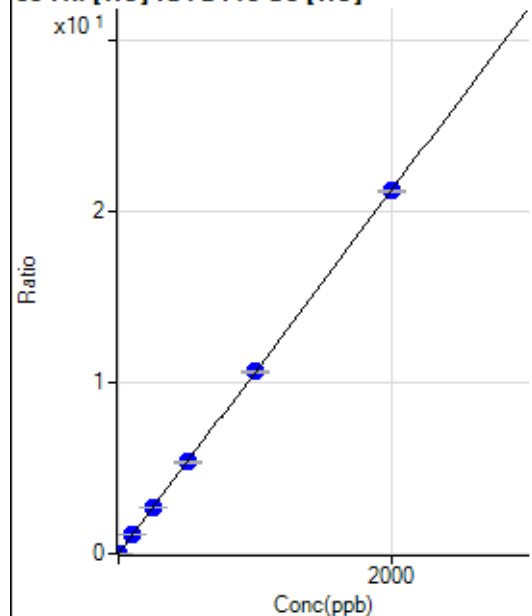
$$R = 1.0000$$

$$DL = 0.2078$$

$$BEC = 1.091$$

Weight: <None>

Min Conc: 0

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

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	117.78	0.0033	P	20.0
2	☐	0.100					
3	☐	1.000	0.876	447.79	0.0126	P	3.7
4	☐	100.000	102.954	39110.33	1.0967	P	1.0
5	☐	250.000	257.960	98812.88	2.7429	P	0.7
6	☐	500.000	503.174	193323.54	5.3472	P	0.8
7	☐	1000.000	1002.618	385259.22	10.6513	P	1.1
8	☐	2000.000	1996.755	752759.90	21.2093	P	0.5
9	☐			3431.60	0.0973	P	1.0

$$y = 0.0106 * x + 0.0033$$

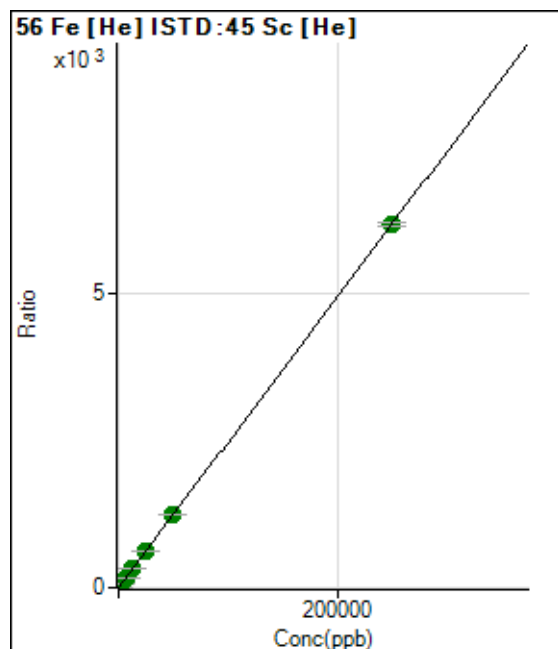
$$R = 1.0000$$

$$DL = 0.1888$$

$$BEC = 0.3141$$

Weight: <None>

Min Conc: 0



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	4652.76	0.1316	P	4.4
2	☐	5.000					
3	☐	50.000	45.414	44274.52	1.2495	P	0.7
4	☐	2500.000	2644.955	2326550.22	65.2409	A	1.1
5	☐	6250.000	6471.650	5743480.51	159.4405	A	1.3
6	☐	12500.000	12670.142	11280788.68	312.0252	A	1.0
7	☐	25000.000	25178.154	22423261.61	619.9277	A	0.5
8	☐	50000.000	50198.359	43861432.46	1,235.835	A	0.9
9	☐	250000.00	249927.01	216997154.8	6,152.441	A	1.1

$$y = 0.0246 * x + 0.1316$$

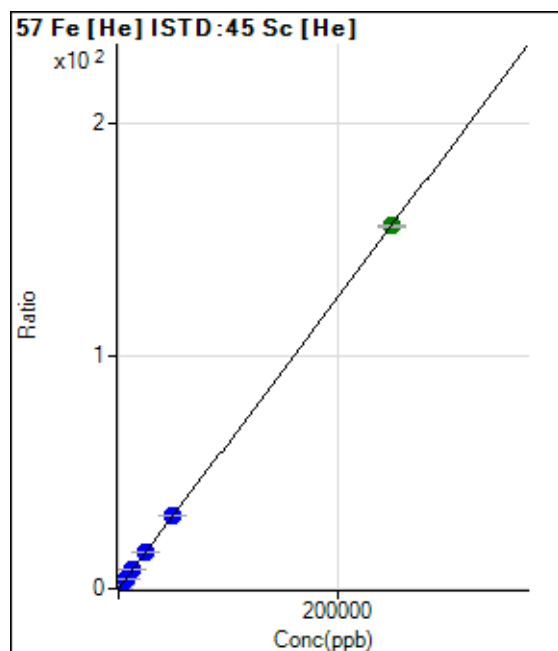
$$R = 1.0000$$

$$DL = 0.7112$$

$$BEC = 5.347$$

Weight: <None>

Min Conc: 0



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	148.15	0.0042	P	22.0
2	☐	5.000					
3	☐	50.000	43.111	1100.08	0.0311	P	12.3
4	☐	2500.000	2587.991	57678.90	1.6175	P	1.2
5	☐	6250.000	6495.008	145990.16	4.0530	P	2.1
6	☐	12500.000	12650.568	285258.74	7.8901	P	1.0
7	☐	25000.000	25177.175	567836.65	15.6988	P	0.8
8	☐	50000.000	50356.769	1114247.20	31.3950	P	1.0
9	☐	250000.00	249896.39	5494662.97	155.7817	A	0.5

$$y = 6.2337E-004 * x + 0.0042$$

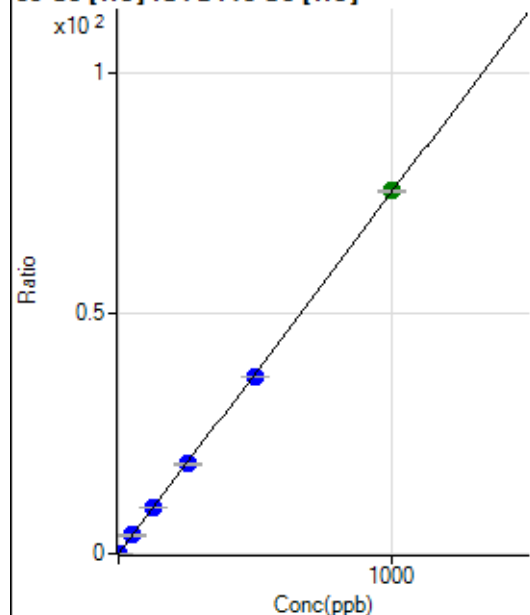
$$R = 1.0000$$

$$DL = 4.42$$

$$BEC = 6.711$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	78.89	0.0022	P	42.9
2	☐	0.100					
3	☐	1.000	0.885	2434.70	0.0687	P	2.8
4	☐	50.000	50.685	135828.91	3.8091	P	1.6
5	☐	125.000	125.979	340934.42	9.4642	P	1.0
6	☐	250.000	248.453	674682.00	18.6629	P	1.7
7	☐	500.000	490.538	1332712.71	36.8451	P	0.5
8	☐	1000.000	1004.961	2679003.78	75.4820	A	0.6
9	☐			4309.63	0.1222	P	2.7

$$y = 0.0751 * x + 0.0022$$

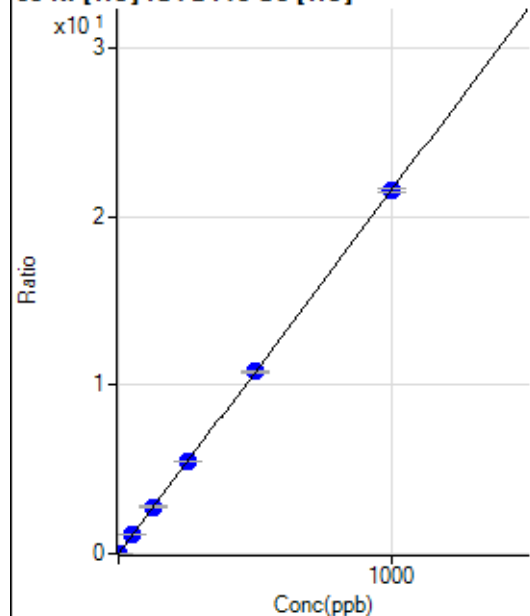
$$R = 0.9999$$

$$DL = 0.03837$$

$$BEC = 0.0298$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	116.67	0.0033	P	24.6
2	☐	0.100					
3	☐	1.000	0.957	847.82	0.0240	P	14.9
4	☐	50.000	53.197	41059.49	1.1515	P	2.9
5	☐	125.000	129.456	100775.79	2.7975	P	1.2
6	☐	250.000	254.582	198777.43	5.4983	P	1.3
7	☐	500.000	499.945	390435.29	10.7944	P	1.0
8	☐	1000.000	998.165	764777.05	21.5482	P	1.0
9	☐			11880.80	0.3368	P	0.9

$$y = 0.0216 * x + 0.0033$$

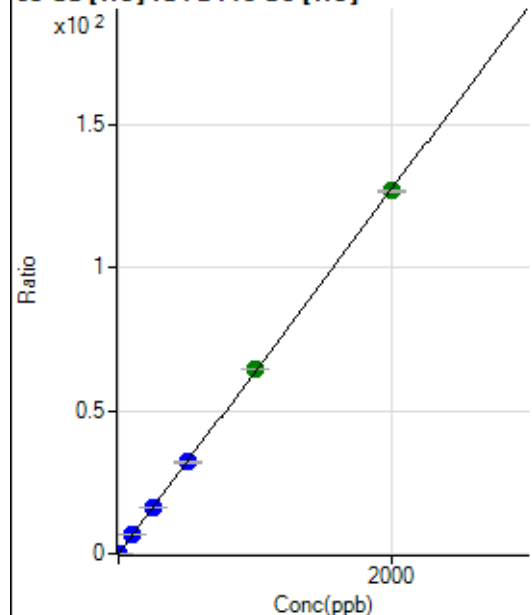
$$R = 1.0000$$

$$DL = 0.1125$$

$$BEC = 0.1526$$

Weight: <None>

Min Conc: 0

⁶³Cu [He] ISTD:45 Sc [He]

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	432.24	0.0122	P	10.7
2	☐	0.200					
3	☐	2.000	2.054	5063.23	0.1429	P	4.1
4	☐	100.000	102.593	233215.53	6.5399	P	1.1
5	☐	250.000	255.116	585198.21	16.2443	P	0.6
6	☐	500.000	503.246	1158005.85	32.0320	P	1.6
7	☐	1000.000	1013.303	2332506.04	64.4850	A	0.6
8	☐	2000.000	1991.768	4498260.35	126.7411	A	0.9
9	☐			9229.87	0.2617	P	3.3

$$y = 0.0636 * x + 0.0122$$

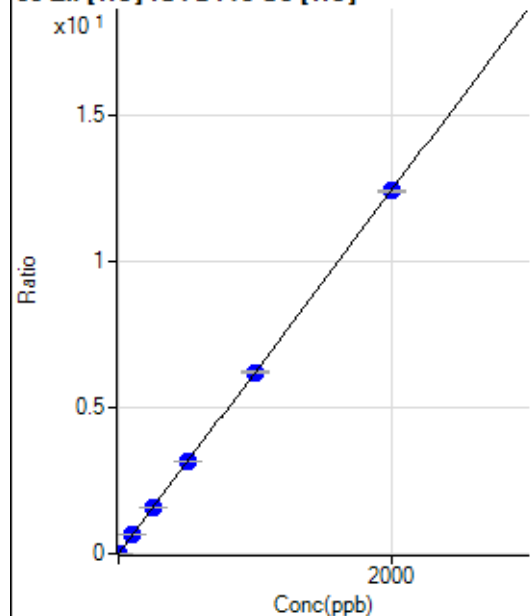
$$R = 1.0000$$

$$DL = 0.06145$$

$$BEC = 0.1922$$

Weight: <None>

Min Conc: 0

⁶⁶Zn [He] ISTD:45 Sc [He]

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	73.34	0.0021	P	26.4
2	☐	0.200					
3	☐	2.000	1.960	504.46	0.0142	P	2.4
4	☐	100.000	104.666	23236.38	0.6515	P	0.1
5	☐	250.000	256.531	57418.32	1.5939	P	1.0
6	☐	500.000	508.131	114067.52	3.1551	P	1.5
7	☐	1000.000	999.246	224352.27	6.2026	P	1.2
8	☐	2000.000	1997.295	439944.90	12.3957	P	0.7
9	☐			3383.81	0.0959	P	3.0

$$y = 0.0062 * x + 0.0021$$

$$R = 1.0000$$

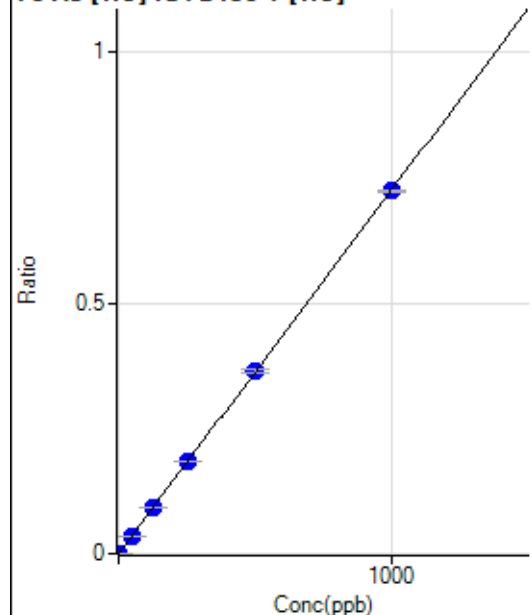
$$DL = 0.2649$$

$$BEC = 0.3348$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	6.17	0.0000	P	45.6
2	☐	0.100					
3	☐	1.000	0.876	146.30	0.0007	P	2.1
4	☐	50.000	50.048	8118.49	0.0363	P	0.2
5	☐	125.000	127.209	20710.64	0.0923	P	0.7
6	☐	250.000	251.837	41244.06	0.1827	P	0.3
7	☐	500.000	502.812	82083.66	0.3647	P	1.4
8	☐	1000.000	997.856	162813.88	0.7237	P	0.3
9	☐			74.69	0.0003	P	3.7

$$y = 7.2527\text{E-}004 * x + 2.8331\text{E-}005$$

$$R = 1.0000$$

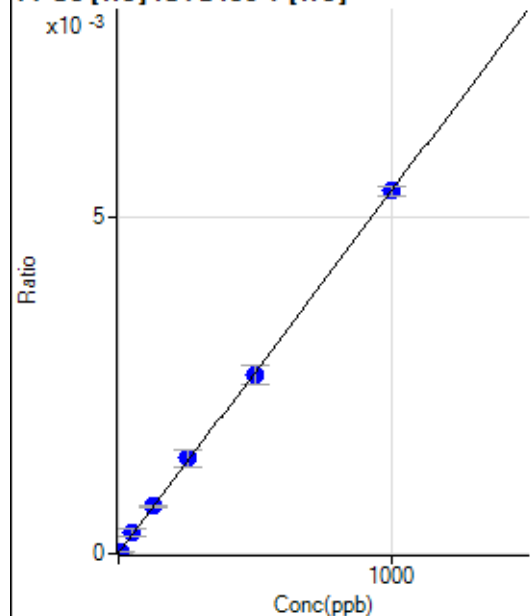
$$DL = 0.05345$$

$$BEC = 0.03906$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1.11	0.0000	P	173.
2	☐	0.500					
3	☐	5.000	4.661	6.67	0.0000	P	50.5
4	☐	50.000	57.990	71.11	0.0003	P	34.8
5	☐	125.000	129.347	157.78	0.0007	P	5.7
6	☐	250.000	263.826	322.23	0.0014	P	17.8
7	☐	500.000	491.436	597.80	0.0027	P	10.4
8	☐	1000.000	999.884	1214.52	0.0054	P	2.4
9	☐			0.00	0.0000	P	

$$y = 5.3944\text{E-}006 * x + 5.1294\text{E-}006$$

$$R = 0.9998$$

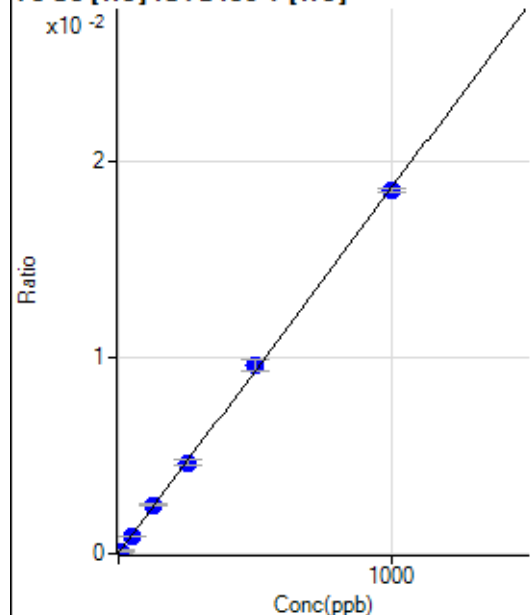
$$DL = 4.941$$

$$BEC = 0.9509$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	3.70	0.0000	P	100.
2	☐	0.500					
3	☐	5.000	6.149	29.01	0.0001	P	35.0
4	☐	50.000	48.211	204.32	0.0009	P	2.4
5	☐	125.000	131.377	552.49	0.0025	P	3.0
6	☐	250.000	248.616	1048.20	0.0046	P	5.8
7	☐	500.000	515.262	2161.92	0.0096	P	6.0
8	☐	1000.000	992.002	4156.84	0.0185	P	0.9
9	☐			6.17	0.0000	P	75.2

$$y = 1.8610E-005 * x + 1.7058E-005$$

$$R = 0.9998$$

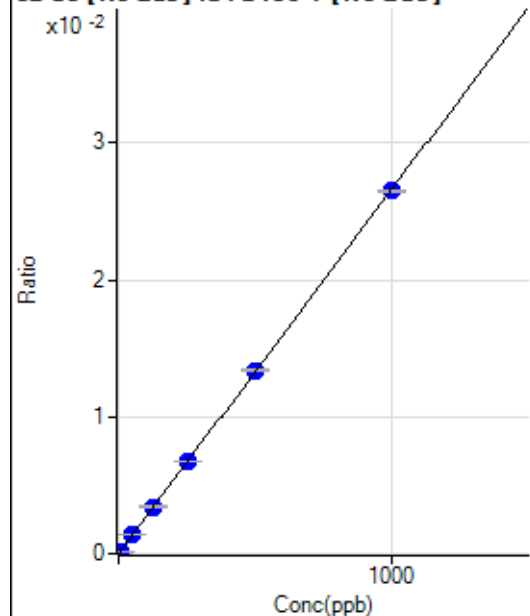
$$DL = 2.76$$

$$BEC = 0.9166$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	-100.64	0.0000	P	-64.
2	☐	0.500					
3	☐	5.000	5.286	479.63	0.0001	P	19.2
4	☐	50.000	51.205	5539.22	0.0013	P	3.6
5	☐	125.000	128.422	14377.86	0.0034	P	2.5
6	☐	250.000	253.704	28745.09	0.0067	P	0.2
7	☐	500.000	503.092	57544.05	0.0134	P	1.3
8	☐	1000.000	997.038	116576.15	0.0265	P	0.7
9	☐			39.16	0.0000	P	78.0

$$y = 2.6604E-005 * x - 2.5095E-005$$

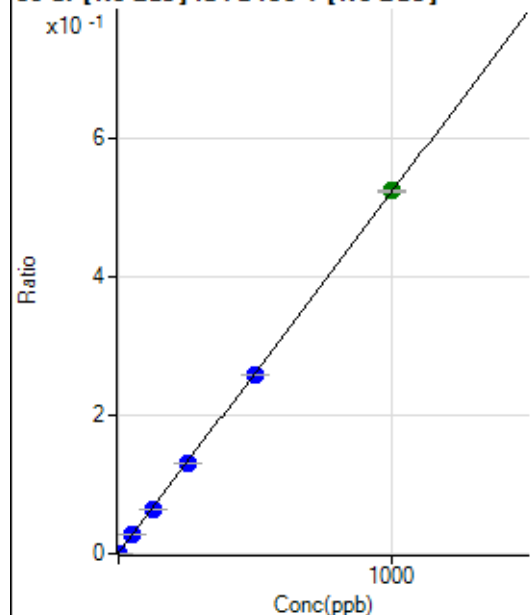
$$R = 1.0000$$

$$DL = 1.816$$

$$BEC = -0.9433$$

Weight: <None>

Min Conc: 0

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

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2539.25	0.0006	P	5.0
2	☐	0.100					
3	☐	1.000	0.797	4356.45	0.0010	P	2.8
4	☐	50.000	50.186	110861.82	0.0268	P	1.3
5	☐	125.000	123.125	274441.39	0.0647	P	1.0
6	☐	250.000	249.428	557735.98	0.1305	P	1.3
7	☐	500.000	493.945	1110378.30	0.2578	P	0.7
8	☐	1000.000	1003.396	2300637.88	0.5230	A	0.3
9	☐			79911.97	0.0185	P	1.0

$$y = 5.2058\text{E-}004 * x + 6.3383\text{E-}004$$

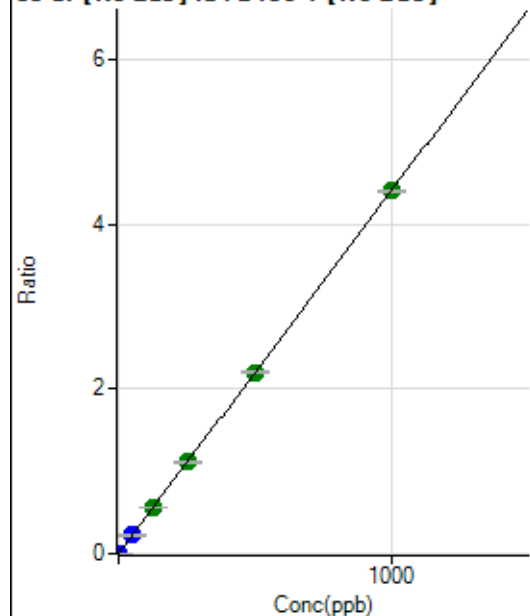
$$R = 1.0000$$

$$DL = 0.1832$$

$$BEC = 1.218$$

Weight: <None>

Min Conc: 0

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

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	241.68	0.0001	P	25.0
2	☐	0.100					
3	☐	1.000	0.902	16752.67	0.0040	P	0.7
4	☐	50.000	50.386	919343.38	0.2219	P	1.2
5	☐	125.000	126.422	2360432.93	0.5567	A	0.5
6	☐	250.000	252.733	4756664.56	1.1129	A	1.7
7	☐	500.000	499.356	9471259.59	2.1988	A	0.9
8	☐	1000.000	999.442	19358969.88	4.4007	A	0.4
9	☐			651077.28	0.1511	P	0.3

$$y = 0.0044 * x + 6.0350\text{E-}005$$

$$R = 1.0000$$

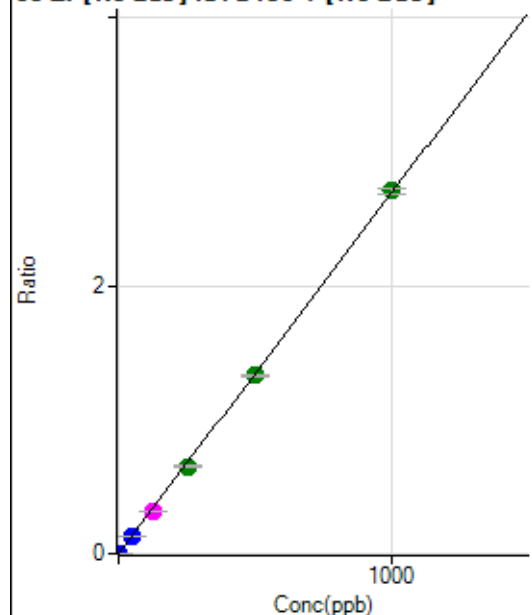
$$DL = 0.01028$$

$$BEC = 0.01371$$

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	247.24	0.0001	P	36.7
2	☐	0.100					
3	☐	1.000	0.881	10098.62	0.0024	P	1.4
4	☐	50.000	46.791	521755.68	0.1259	P	1.1
5	☐	125.000	118.442	1351261.94	0.3187	M	0.2
6	☐	250.000	242.498	2789016.88	0.6525	A	0.1
7	☐	500.000	494.474	5730703.47	1.3303	A	0.8
8	☐	1000.000	1005.619	11901434.29	2.7055	A	1.5
9	☐			3581.27	0.0008	P	3.1

$$y = 0.0027 * x + 6.1643E-005$$

$$R = 0.9999$$

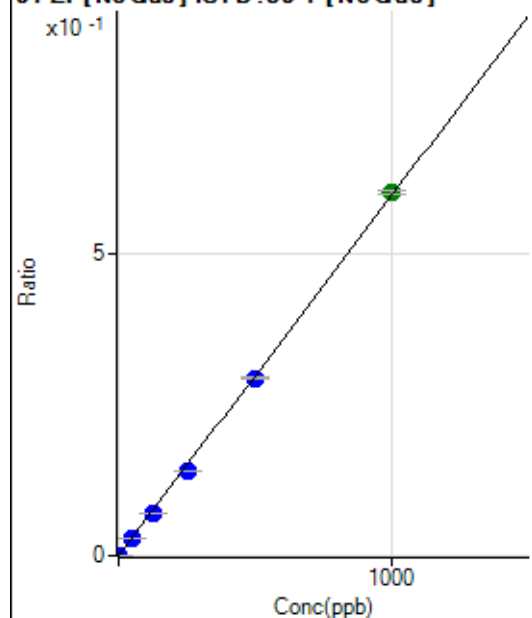
$$DL = 0.02524$$

$$BEC = 0.02291$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	58.33	0.0000	P	51.4
2	☐	0.100					
3	☐	1.000	0.842	2144.72	0.0005	P	4.6
4	☐	50.000	46.630	115129.38	0.0278	P	0.9
5	☐	125.000	116.402	294027.25	0.0693	P	0.9
6	☐	250.000	236.728	602795.90	0.1410	P	0.7
7	☐	500.000	493.352	1265903.55	0.2939	P	1.1
8	☐	1000.000	1007.885	2641000.02	0.6004	A	0.9
9	☐			741.72	0.0002	P	13.6

$$y = 5.9565E-004 * x + 1.4560E-005$$

$$R = 0.9999$$

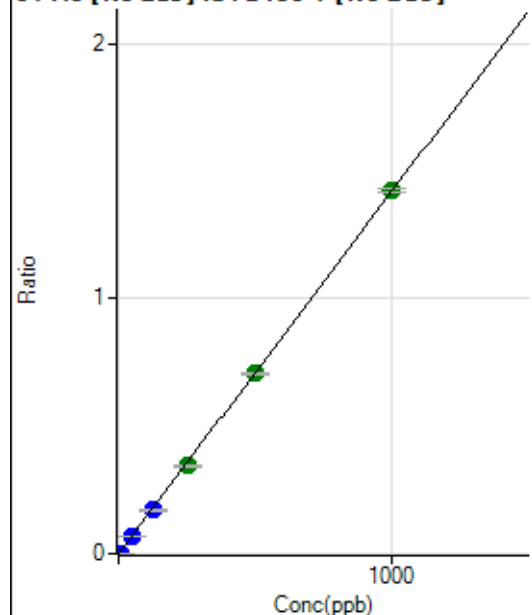
$$DL = 0.03767$$

$$BEC = 0.02444$$

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	97.23	0.0000	P	21.2
2	☐	0.500					
3	☐	5.000	1.974	11741.74	0.0028	P	2.2
4	☐	50.000	47.694	280556.09	0.0677	P	0.3
5	☐	125.000	120.001	722199.17	0.1703	P	1.4
6	☐	250.000	242.359	1470418.94	0.3440	A	1.8
7	☐	500.000	499.332	3052881.25	0.7087	A	1.1
8	☐	1000.000	1002.999	6262458.38	1.4236	A	1.0
9	☐			10051.40	0.0023	P	3.4

$$y = 0.0014 * x + 2.4255E-005$$

$$R = 1.0000$$

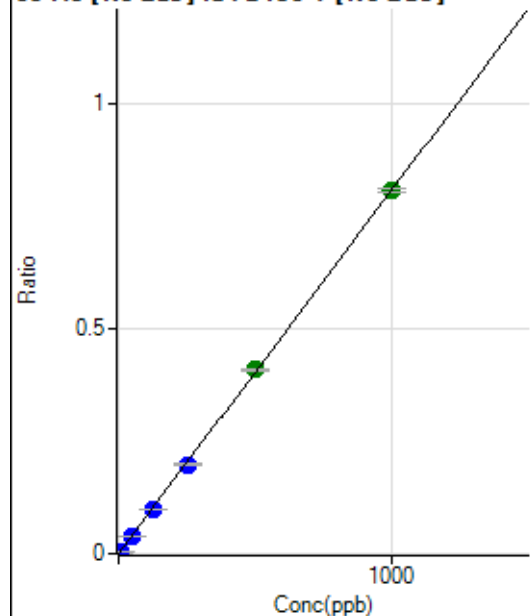
$$DL = 0.01087$$

$$BEC = 0.01709$$

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	19.45	0.0000	P	24.4
2	☐	0.500					
3	☐	5.000	4.345	14586.13	0.0035	P	5.5
4	☐	50.000	49.639	165996.26	0.0401	P	1.2
5	☐	125.000	122.886	420523.25	0.0992	P	0.8
6	☐	250.000	245.085	845511.25	0.1978	P	1.3
7	☐	500.000	505.580	1757704.01	0.4081	A	1.1
8	☐	1000.000	998.725	3545885.85	0.8061	A	1.2
9	☐			14597.36	0.0034	P	3.3

$$y = 8.0709E-004 * x + 4.8516E-006$$

$$R = 1.0000$$

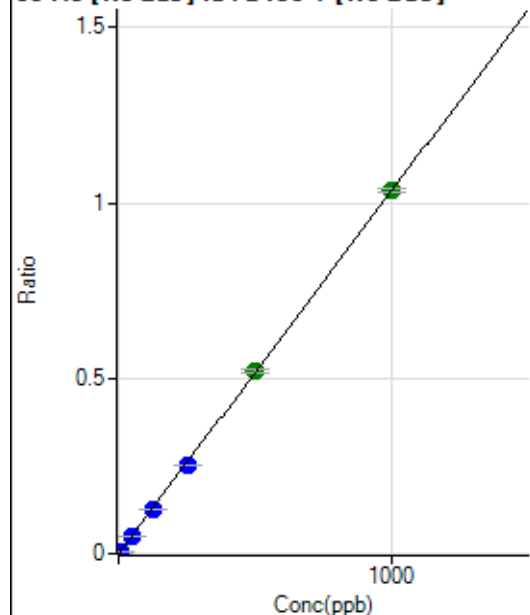
$$DL = 0.004393$$

$$BEC = 0.006011$$

Weight: <None>

Min Conc: 0

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	66.67	0.0000	P	43.5
2	☐	0.500					
3	☐	5.000	3.691	15929.34	0.0038	P	3.0
4	☐	50.000	48.388	207425.83	0.0501	P	0.9
5	☐	125.000	120.486	528433.81	0.1246	P	1.5
6	☐	250.000	244.510	1081120.59	0.2529	P	1.0
7	☐	500.000	503.623	2243902.63	0.5209	A	1.5
8	☐	1000.000	1000.212	4551191.33	1.0346	A	1.1
9	☐			18084.97	0.0042	P	1.8

$$y = 0.0010 * x + 1.6659E-005$$

$$R = 1.0000$$

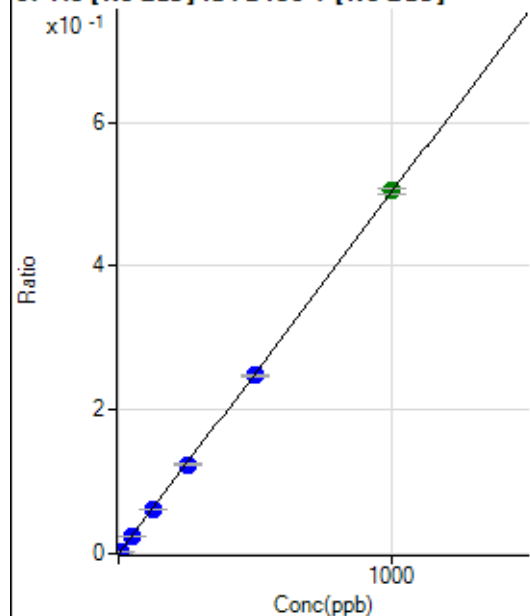
$$DL = 0.02103$$

$$BEC = 0.01611$$

Weight: <None>

Min Conc: 0

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	33.33	0.0000	P	43.1
2	☐	0.500					
3	☐	5.000	4.261	8931.13	0.0021	P	2.3
4	☐	50.000	49.371	102836.24	0.0248	P	1.0
5	☐	125.000	121.456	258827.79	0.0610	P	1.5
6	☐	250.000	245.766	527991.12	0.1235	P	1.5
7	☐	500.000	494.461	1070485.65	0.2485	P	0.9
8	☐	1000.000	1004.306	2220419.21	0.5048	A	1.6
9	☐			8986.70	0.0021	P	1.2

$$y = 5.0258E-004 * x + 8.3166E-006$$

$$R = 1.0000$$

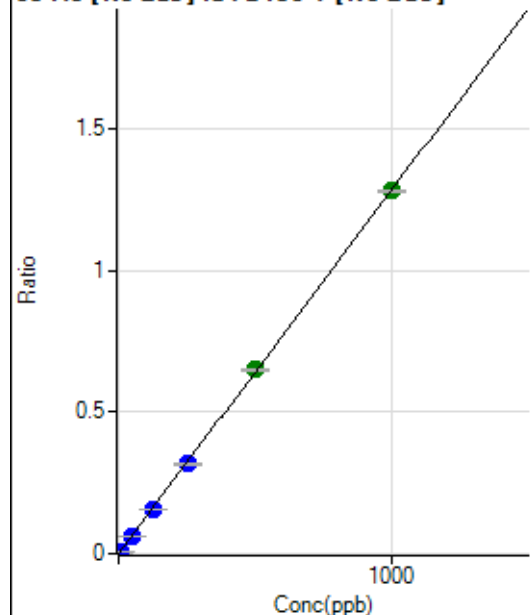
$$DL = 0.0214$$

$$BEC = 0.01655$$

Weight: <None>

Min Conc: 0

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	30.56	0.0000	P	42.0
2	☐	0.500					
3	☐	5.000	4.256	22753.22	0.0055	P	1.0
4	☐	50.000	49.372	262888.76	0.0635	P	0.4
5	☐	125.000	122.177	665692.15	0.1570	P	1.3
6	☐	250.000	246.282	1352844.63	0.3165	P	1.4
7	☐	500.000	506.073	2801486.61	0.6504	A	0.9
8	☐	1000.000	998.281	5643563.58	1.2829	A	0.3
9	☐			23398.79	0.0054	P	0.9

$$y = 0.0013 * x + 7.6371E-006$$

$$R = 1.0000$$

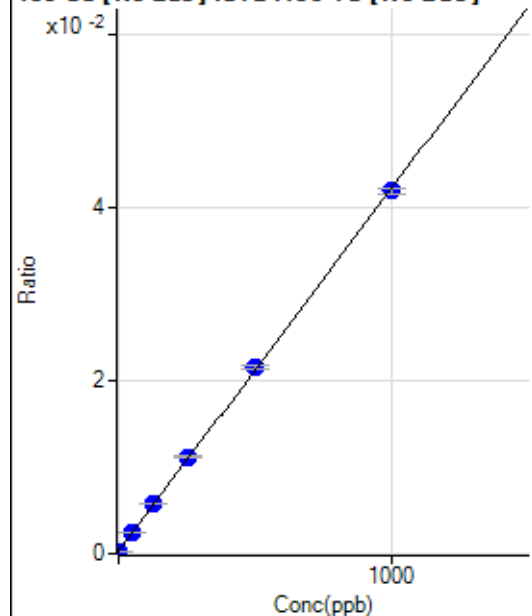
$$DL = 0.007497$$

$$BEC = 0.005943$$

Weight: <None>

Min Conc: 0

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1069.54	0.0003	P	9.4
2	☐	0.100					
3	☐	1.000	0.273	1119.55	0.0003	P	0.6
4	☐	50.000	50.019	9103.46	0.0024	P	3.3
5	☐	125.000	131.004	22555.87	0.0058	P	3.5
6	☐	250.000	260.268	43970.05	0.0112	P	3.2
7	☐	500.000	507.138	87385.62	0.0215	P	1.5
8	☐	1000.000	993.113	176851.04	0.0419	P	1.4
9	☐			1164.00	0.0003	P	16.9

$$y = 4.1857E-005 * x + 2.8955E-004$$

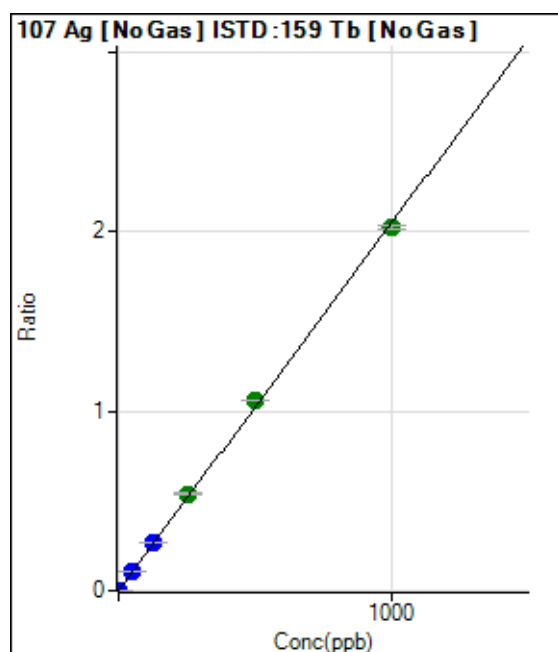
$$R = 0.9999$$

$$DL = 1.942$$

$$BEC = 6.918$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	47.22	0.0000	P	37.1
2	☐	0.100					
3	☐	1.000	1.237	9481.52	0.0025	P	4.7
4	☐	50.000	52.602	411973.29	0.1079	P	0.7
5	☐	125.000	130.284	1043754.64	0.2671	P	1.1
6	☐	250.000	263.830	2126717.58	0.5409	A	0.4
7	☐	500.000	518.132	4314302.66	1.0623	A	0.8
8	☐	1000.000	986.686	8547287.43	2.0229	A	1.0
9	☐			1772.43	0.0004	P	4.4

$$y = 0.0021 * x + 1.2792E-005$$

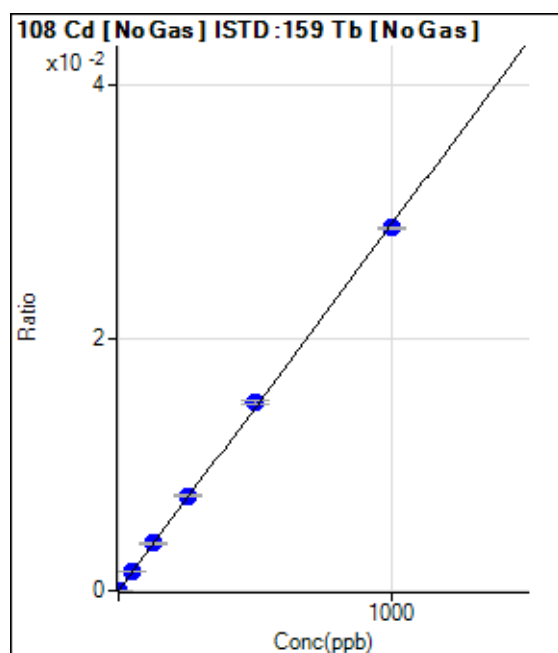
$$R = 0.9996$$

$$DL = 0.006943$$

$$BEC = 0.00624$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	8.34	0.0000	P	86.9
2	☐	0.100					
3	☐	1.000	0.940	109.72	0.0000	P	2.9
4	☐	50.000	52.385	5805.53	0.0015	P	6.3
5	☐	125.000	128.683	14573.44	0.0037	P	3.4
6	☐	250.000	259.039	29513.21	0.0075	P	0.8
7	☐	500.000	512.921	60348.43	0.0149	P	1.8
8	☐	1000.000	990.700	121268.95	0.0287	P	0.6
9	☐			56.94	0.0000	P	27.4

$$y = 2.8968E-005 * x + 2.2604E-006$$

$$R = 0.9998$$

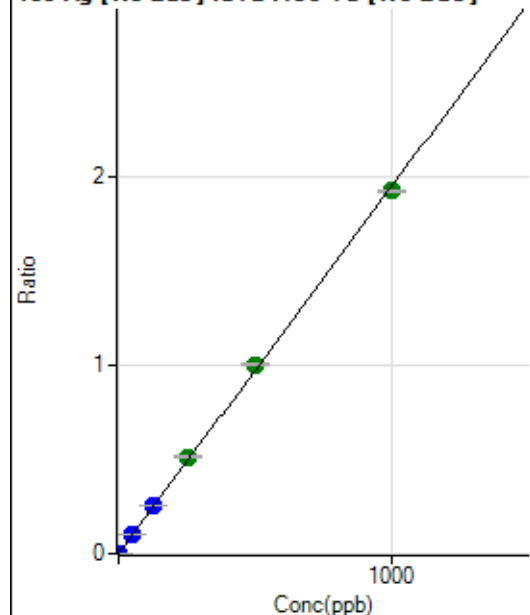
$$DL = 0.2034$$

$$BEC = 0.07803$$

Weight: <None>

Min Conc: 0

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	30.55	0.0000	P	15.5
2	☐	0.100					
3	☐	1.000	1.215	8844.95	0.0024	P	6.1
4	☐	50.000	52.463	391113.37	0.1024	P	1.0
5	☐	125.000	131.281	1001139.61	0.2562	P	1.3
6	☐	250.000	264.078	2026321.29	0.5154	A	0.6
7	☐	500.000	514.476	4077718.62	1.0040	A	0.8
8	☐	1000.000	988.334	8149728.40	1.9288	A	0.5
9	☐			2147.34	0.0005	P	34.6

$$y = 0.0020 * x + 8.2671E-006$$

$$R = 0.9997$$

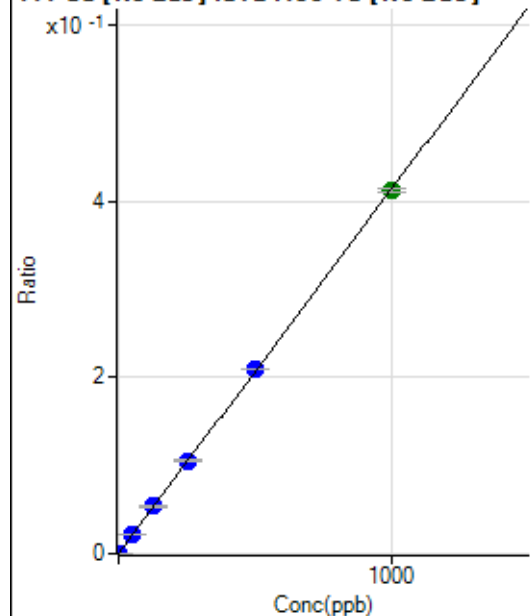
$$DL = 0.001966$$

$$BEC = 0.004236$$

Weight: <None>

Min Conc: 0

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	744.23	0.0002	P	9.2
2	☐	0.100					
3	☐	1.000	0.906	2141.71	0.0006	P	1.2
4	☐	50.000	51.973	82807.52	0.0217	P	0.7
5	☐	125.000	129.008	209105.51	0.0535	P	1.1
6	☐	250.000	255.450	415834.56	0.1058	P	0.8
7	☐	500.000	505.303	848861.98	0.2090	P	0.4
8	☐	1000.000	995.386	1738837.45	0.4115	A	0.9
9	☐			1204.12	0.0003	P	12.6

$$y = 4.1324E-004 * x + 2.0148E-004$$

$$R = 1.0000$$

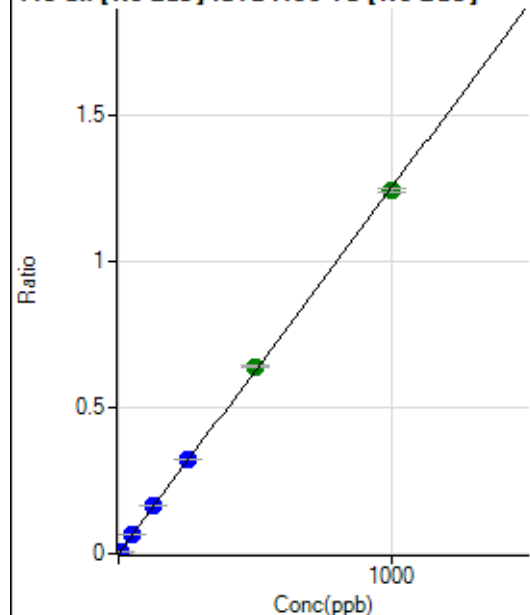
$$DL = 0.1346$$

$$BEC = 0.4876$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	725.06	0.0002	P	1.7
2	☐	0.500					
3	☐	5.000	4.557	21902.15	0.0059	P	3.9
4	☐	50.000	51.958	248718.57	0.0651	P	0.1
5	☐	125.000	129.091	631026.80	0.1615	P	0.7
6	☐	250.000	257.320	1264840.47	0.3217	P	0.9
7	☐	500.000	511.833	2597971.93	0.6397	A	1.1
8	☐	1000.000	991.646	5235774.60	1.2392	A	1.0
9	☐			5857.11	0.0014	P	8.1

$$y = 0.0012 * x + 1.9624E-004$$

$$R = 0.9999$$

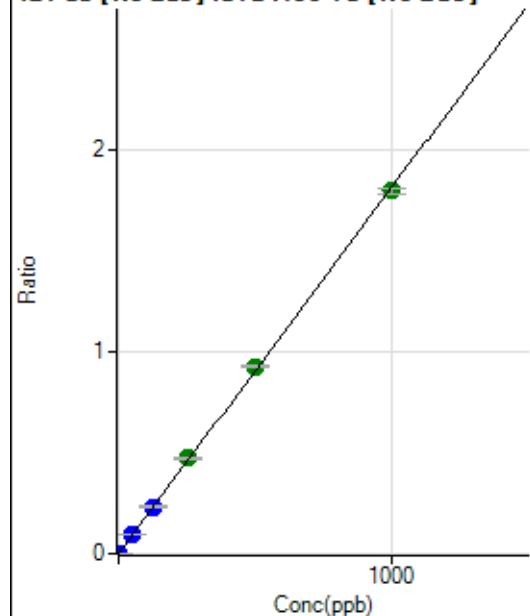
$$DL = 0.008026$$

$$BEC = 0.1571$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	25.00	0.0000	P	57.8
2	☐	0.200					
3	☐	2.000	1.874	12653.72	0.0034	P	7.4
4	☐	50.000	51.053	353615.10	0.0926	P	1.0
5	☐	125.000	128.338	909331.36	0.2327	P	0.9
6	☐	250.000	260.745	1858915.19	0.4728	A	1.2
7	☐	500.000	510.792	3761552.47	0.9262	A	0.7
8	☐	1000.000	991.448	7596123.52	1.7977	A	1.2
9	☐			16964.29	0.0041	P	1.3

$$y = 0.0018 * x + 6.7682E-006$$

$$R = 0.9998$$

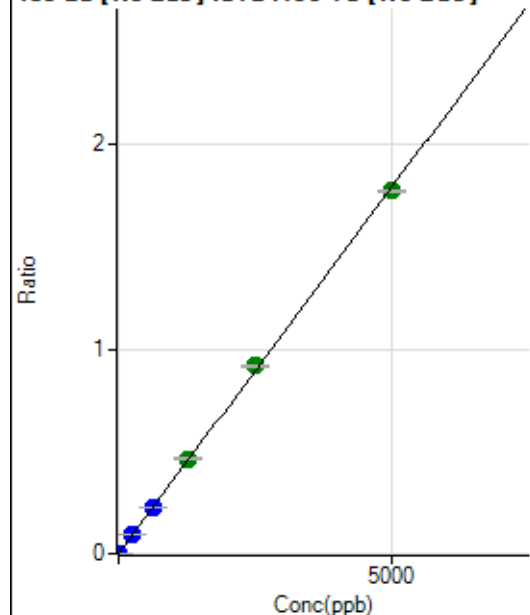
$$DL = 0.006467$$

$$BEC = 0.003733$$

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	44.45	0.0000	P	29.0
2	☐	1.000					
3	☐	10.000	9.206	12289.62	0.0033	P	4.8
4	☐	250.000	254.823	348202.74	0.0912	P	1.0
5	☐	625.000	633.635	885691.24	0.2267	P	0.7
6	☐	1250.000	1299.085	1827099.04	0.4647	A	1.1
7	☐	2500.000	2562.205	3722168.10	0.9165	A	0.7
8	☐	5000.000	4955.307	7489313.62	1.7725	A	0.9
9	☐			3750.72	0.0009	P	2.0

$$y = 3.5769\text{E-}004 * x + 1.2038\text{E-}005$$

$$R = 0.9998$$

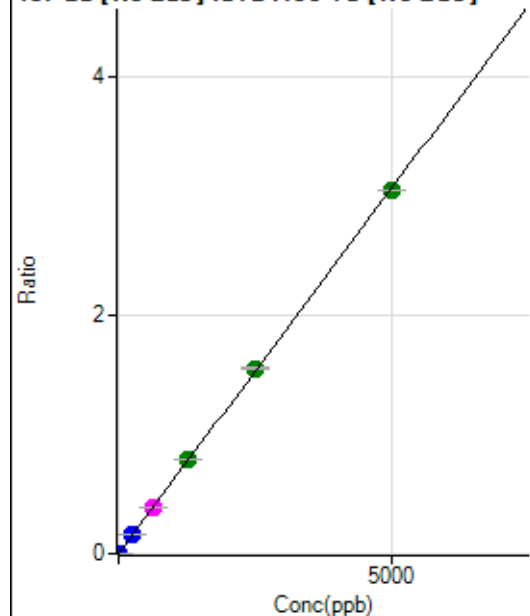
$$DL = 0.02928$$

$$BEC = 0.03366$$

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	55.56	0.0000	P	53.0
2	☐	1.000					
3	☐	10.000	9.070	20719.84	0.0056	P	0.3
4	☐	250.000	256.055	599045.74	0.1568	P	0.9
5	☐	625.000	637.796	1526384.91	0.3906	M	1.1
6	☐	1250.000	1293.723	3115383.94	0.7923	A	1.5
7	☐	2500.000	2540.115	6318123.71	1.5557	A	0.7
8	☐	5000.000	4967.112	12853540.65	3.0420	A	0.1
9	☐			6215.66	0.0015	P	5.3

$$y = 6.1243\text{E-}004 * x + 1.5057\text{E-}005$$

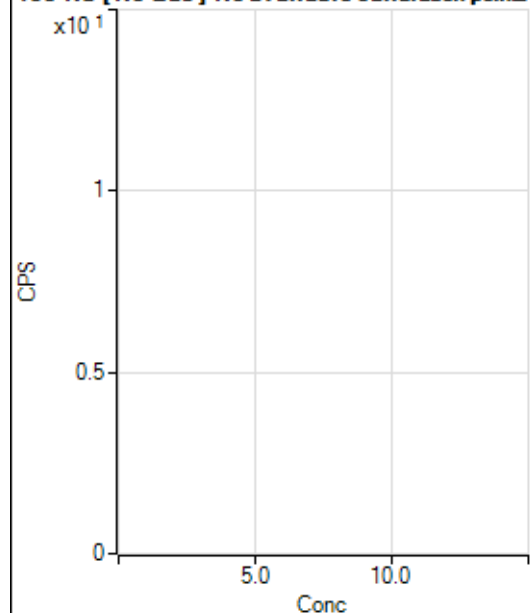
$$R = 0.9999$$

$$DL = 0.03906$$

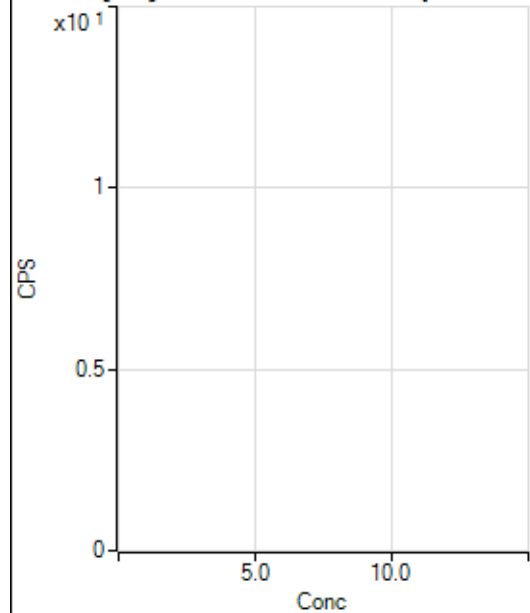
$$BEC = 0.02459$$

Weight: <None>

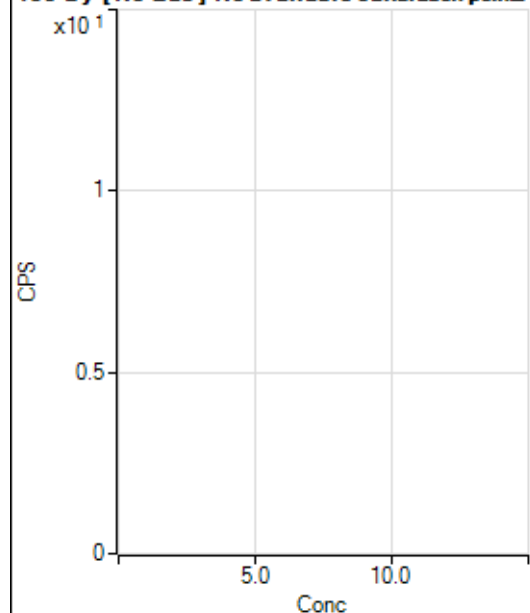
Min Conc: 0

150 Nd [No Gas] No available calibration points

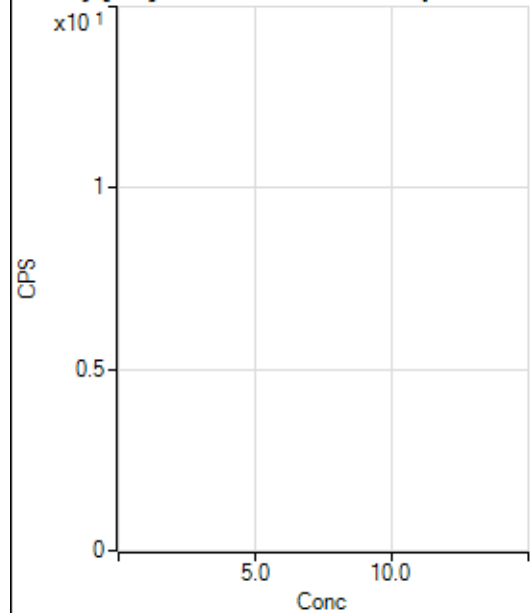
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			13.33		P	50.0
2	☐						
3	☐			13.33		P	100.
4	☐			24.45		P	83.3
5	☐			17.78		P	43.3
6	☐			66.67		P	43.6
7	☐			117.79		P	36.8
8	☐			226.68		P	25.5
9	☐			106.67		P	38.0

150 Nd [He] No available calibration points

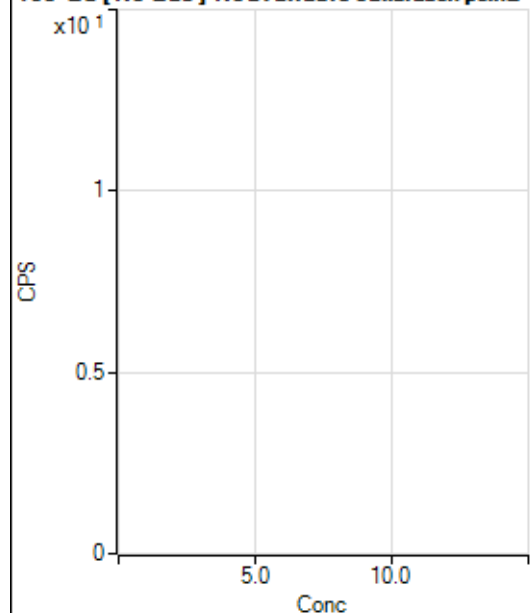
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			0.00		P	
2	☐						
3	☐			0.00		P	
4	☐			1.11		P	173.
5	☐			5.56		P	34.7
6	☐			0.00		P	
7	☐			6.66		P	86.6
8	☐			6.67		P	50.0
9	☐			15.55		P	44.6

156 Dy [No Gas] No available calibration points

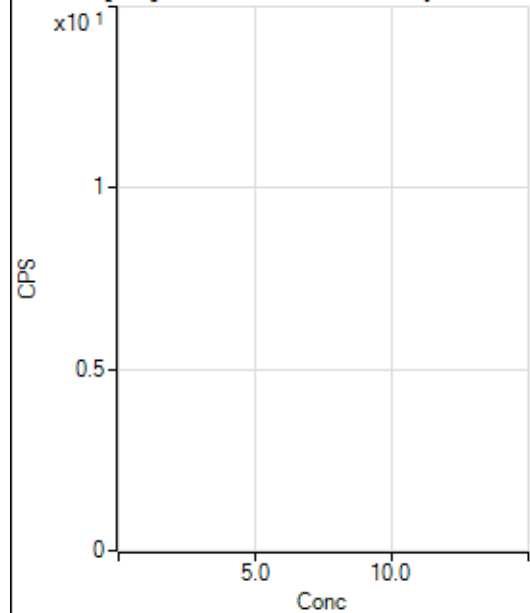
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			5.56		P	173.
2	☐						
3	☐			2.78		P	173.
4	☐			13.89		P	34.7
5	☐			25.00		P	57.7
6	☐			22.22		P	57.3
7	☐			66.67		P	12.5
8	☐			97.23		P	19.8
9	☐			86.12		P	20.1

156 Dy [He] No available calibration points

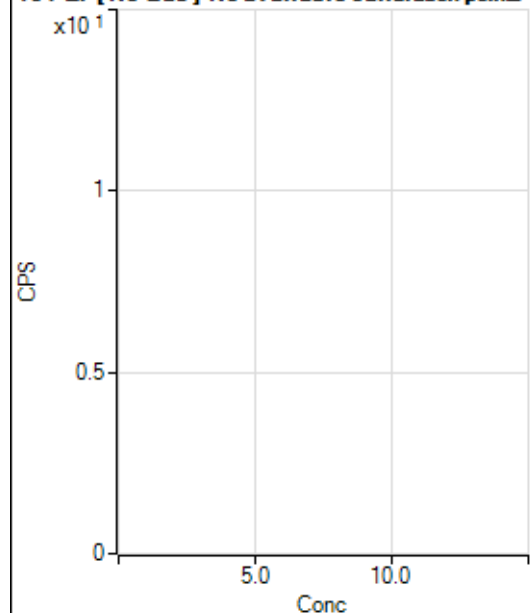
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			0.00		P	
2	☐						
3	☐			0.00		P	
4	☐			4.44		P	114.
5	☐			3.33		P	100.
6	☐			2.22		P	86.6
7	☐			10.00		P	88.2
8	☐			6.67		P	50.0
9	☐			18.89		P	27.0

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

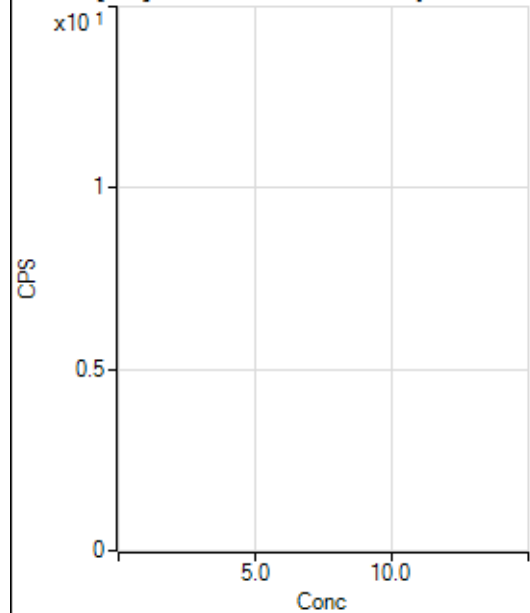
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			27.78		P	69.3
2	☐						
3	☐			38.89		P	44.6
4	☐			47.22		P	36.7
5	☐			36.11		P	13.3
6	☐			69.45		P	42.1
7	☐			52.78		P	32.9
8	☐			58.34		P	51.5
9	☐			97.23		P	44.0

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			10.00		P	57.8
2	☐						
3	☐			10.00		P	57.7
4	☐			11.11		P	17.3
5	☐			14.44		P	13.4
6	☐			7.78		P	65.5
7	☐			12.22		P	68.7
8	☐			12.22		P	41.7
9	☐			31.11		P	6.2

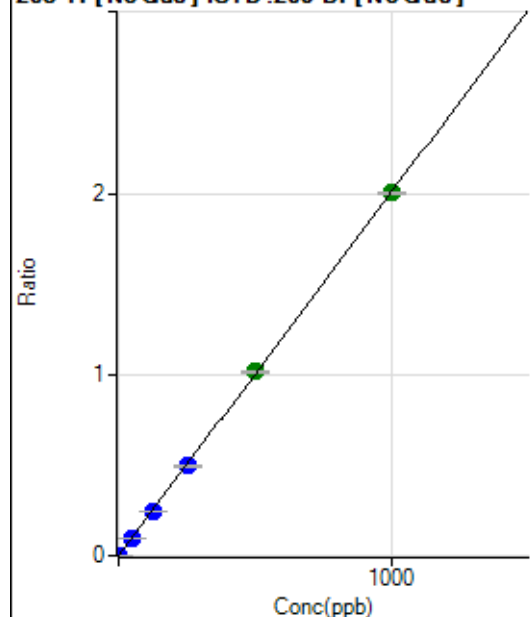
164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			19.45		P	24.7
2	☐						
3	☐			19.44		P	65.5
4	☐			19.45		P	65.5
5	☐			25.00		P	33.3
6	☐			16.67		P	100.
7	☐			25.00		P	33.3
8	☐			16.67		P	50.0
9	☐			33.33		P	25.0

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			5.56		P	34.7
2	☐						
3	☐			5.55		P	69.3
4	☐			4.44		P	43.4
5	☐			3.33		P	100.
6	☐			3.33		P	0.0
7	☐			5.56		P	173.
8	☐			10.00		P	33.3
9	☐			12.22		P	87.7

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	36.11	0.0000	P	59.3
2	☐	0.100					
3	☐	1.000	0.909	3547.89	0.0018	P	4.3
4	☐	50.000	48.926	193159.05	0.0982	P	2.1
5	☐	125.000	123.117	497459.72	0.2471	P	1.1
6	☐	250.000	247.335	1018415.04	0.4965	P	1.6
7	☐	500.000	506.256	2155155.10	1.0162	A	0.5
8	☐	1000.000	997.828	4438276.71	2.0029	A	0.9
9	☐			2439.24	0.0012	P	4.4

$$y = 0.0020 * x + 1.9113E-005$$

$$R = 1.0000$$

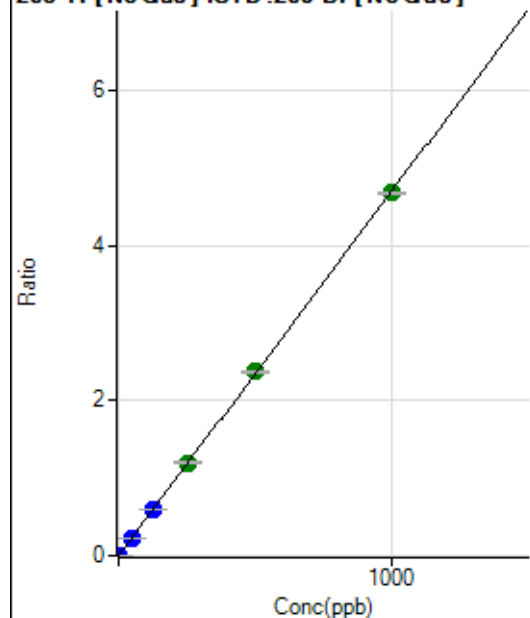
$$DL = 0.01693$$

$$BEC = 0.009522$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	50.00	0.0000	P	51.2
2	☐	0.100					
3	☐	1.000	0.906	8244.75	0.0043	P	4.1
4	☐	50.000	49.700	459411.61	0.2336	P	1.2
5	☐	125.000	124.356	1176475.94	0.5845	P	0.3
6	☐	250.000	255.646	2464749.19	1.2016	A	1.3
7	☐	500.000	504.796	5031814.05	2.3726	A	1.2
8	☐	1000.000	996.286	10375835.04	4.6826	A	0.7
9	☐			5776.61	0.0028	P	7.3

$$y = 0.0047 * x + 2.6443E-005$$

$$R = 1.0000$$

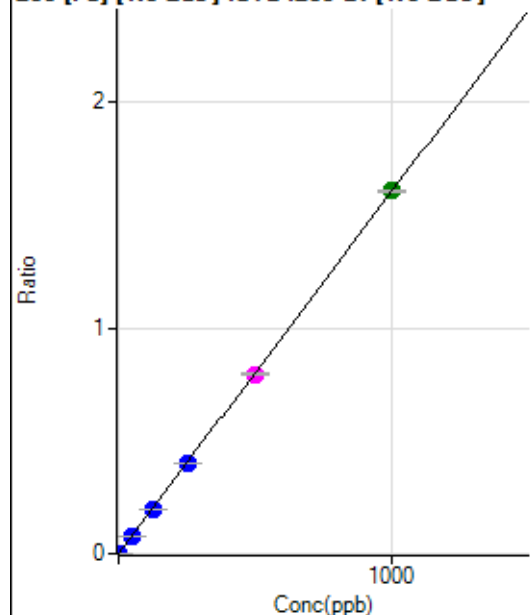
$$DL = 0.00864$$

$$BEC = 0.005626$$

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	177.79	0.0001	P	16.3
2	☐	0.100					
3	☐	1.000	1.217	3935.92	0.0020	P	3.8
4	☐	50.000	48.843	154177.04	0.0784	P	1.2
5	☐	125.000	124.009	400364.43	0.1989	P	0.4
6	☐	250.000	248.655	817960.08	0.3988	P	1.0
7	☐	500.000	495.475	1684892.47	0.7945	M	0.7
8	☐	1000.000	1002.780	3562531.56	1.6078	A	0.8
9	☐			8847.76	0.0043	P	1.8

$$y = 0.0016 * x + 9.3549E-005$$

$$R = 1.0000$$

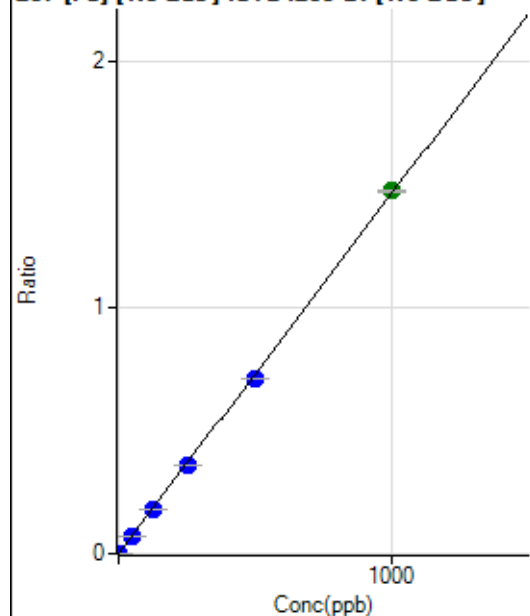
$$DL = 0.0285$$

$$BEC = 0.05835$$

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	168.53	0.0001	P	19.9
2	☐	0.100					
3	☐	1.000	1.203	3552.46	0.0018	P	11.4
4	☐	50.000	48.610	139842.76	0.0711	P	1.6
5	☐	125.000	122.878	361550.39	0.1796	P	0.9
6	☐	250.000	245.552	736151.20	0.3589	P	1.0
7	☐	500.000	486.053	1506260.41	0.7103	P	0.2
8	☐	1000.000	1008.420	3265237.69	1.4735	A	0.6
9	☐			7684.04	0.0037	P	3.2

$$y = 0.0015 * x + 8.8552E-005$$

$$R = 0.9998$$

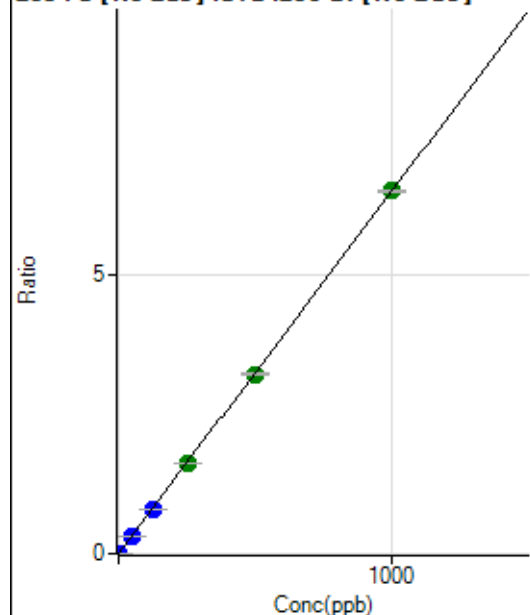
$$DL = 0.03619$$

$$BEC = 0.06061$$

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	648.18	0.0003	P	7.9
2	☐	0.100					
3	☐	1.000	1.227	15993.32	0.0083	P	3.4
4	☐	50.000	49.012	626660.87	0.3187	P	0.9
5	☐	125.000	123.964	1621221.43	0.8055	P	0.3
6	☐	250.000	249.931	3330463.37	1.6236	A	1.1
7	☐	500.000	496.393	6837894.26	3.2243	A	0.1
8	☐	1000.000	1001.999	14421321.44	6.5081	A	0.4
9	☐			34858.51	0.0168	P	1.3

$$y = 0.0065 * x + 3.4089E-004$$

$$R = 1.0000$$

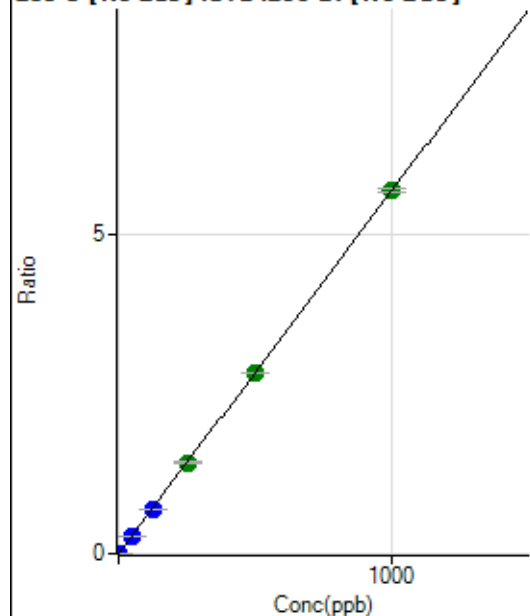
$$DL = 0.0124$$

$$BEC = 0.05249$$

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	75.00	0.0000	P	20.8
2	☐	0.100					
3	☐	1.000	0.892	9823.79	0.0051	P	1.4
4	☐	50.000	48.336	540155.20	0.2747	P	1.2
5	☐	125.000	122.194	1397485.06	0.6943	P	0.6
6	☐	250.000	250.530	2919962.67	1.4235	A	1.1
7	☐	500.000	499.433	6017884.55	2.8377	A	0.2
8	☐	1000.000	1000.585	12596801.24	5.6851	A	0.9
9	☐			2822.68	0.0014	P	9.3

$$y = 0.0057 * x + 3.9394E-005$$

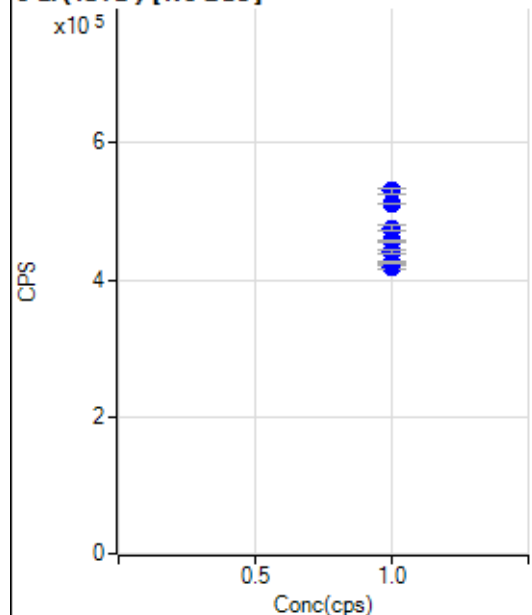
$$R = 1.0000$$

$$DL = 0.004333$$

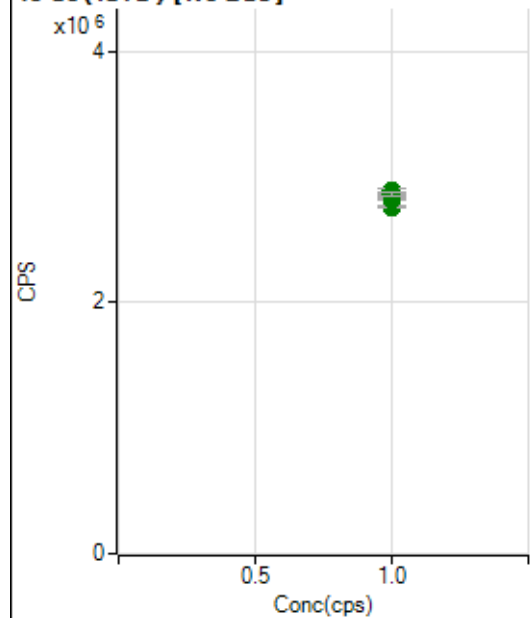
$$BEC = 0.006934$$

Weight: <None>

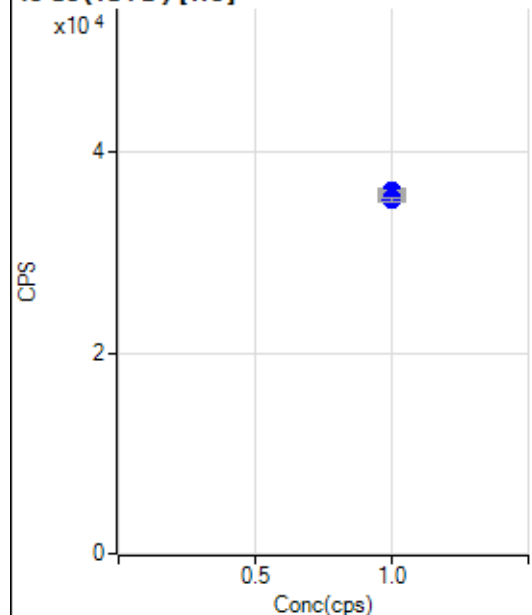
Min Conc: 0

6 Li (ISTD) [No Gas]

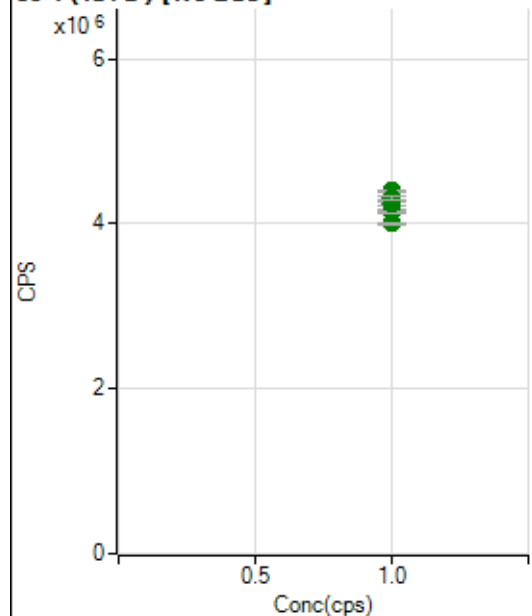
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		424824.86		P	0.4
2	☐	1.000					
3	☐	1.000		418736.08		P	0.9
4	☐	1.000		424349.43		P	0.5
5	☐	1.000		440686.43		P	1.2
6	☐	1.000		456775.13		P	0.8
7	☐	1.000		474633.98		P	1.8
8	☐	1.000		510142.23		P	0.1
9	☐	1.000		529728.43		P	1.4

45 Sc (ISTD) [No Gas]

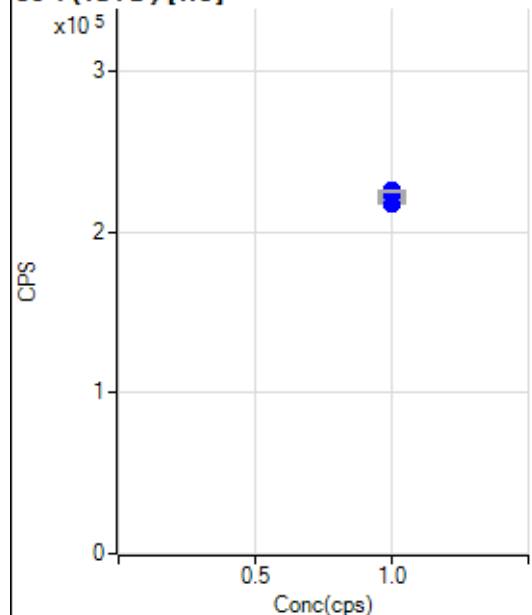
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2760516.92		A	0.3
2	☐	1.000					
3	☐	1.000		2759985.80		A	0.7
4	☐	1.000		2819658.16		A	0.6
5	☐	1.000		2828669.05		A	0.5
6	☐	1.000		2854384.28		A	0.3
7	☐	1.000		2850821.74		A	0.5
8	☐	1.000		2888134.94		A	1.1
9	☐	1.000		2861970.20		A	1.0

45 Sc (ISTD) [He]

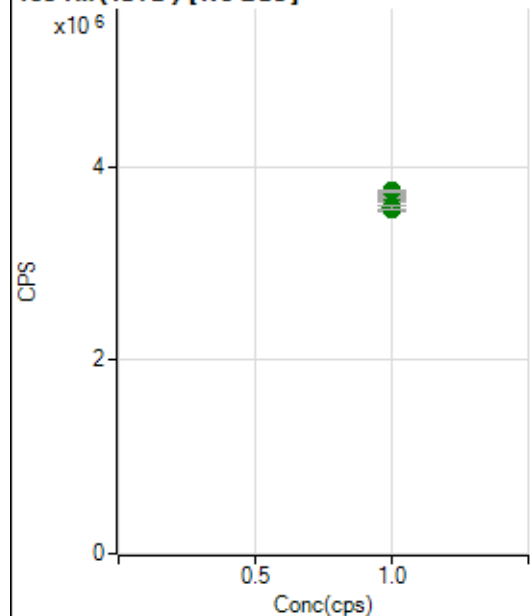
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		35359.05		P	1.1
2	☐	1.000					
3	☐	1.000		35433.57		P	1.1
4	☐	1.000		35663.18		P	1.0
5	☐	1.000		36026.32		P	1.2
6	☐	1.000		36156.55		P	1.3
7	☐	1.000		36171.12		P	0.5
8	☐	1.000		35492.69		P	0.6
9	☐	1.000		35272.10		P	0.9

89 Y (ISTD) [No Gas]

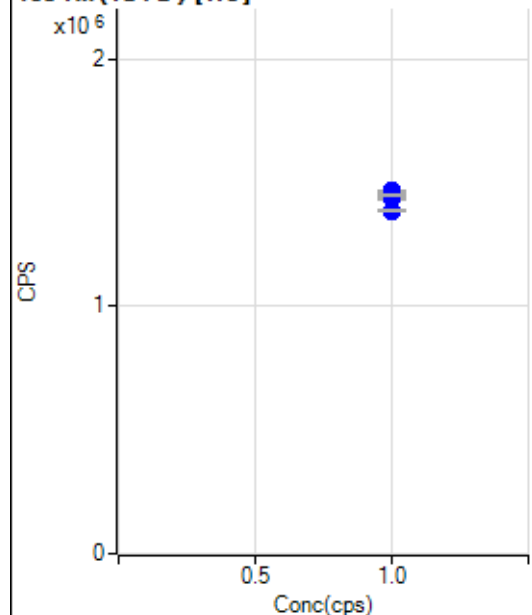
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4006119.63		A	0.5
2	☐	1.000					
3	☐	1.000		4154728.06		A	0.7
4	☐	1.000		4143039.59		A	0.7
5	☐	1.000		4239922.89		A	0.8
6	☐	1.000		4274662.09		A	0.9
7	☐	1.000		4307784.38		A	1.0
8	☐	1.000		4399144.48		A	0.6
9	☐	1.000		4310004.14		A	1.0

89 Y (ISTD) [He]

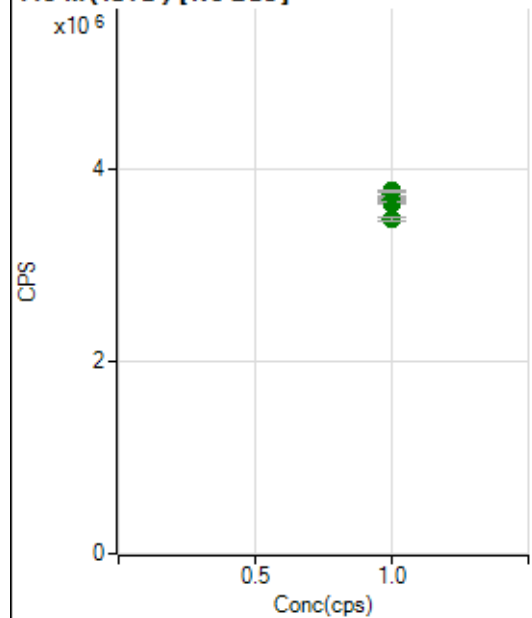
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		217832.82		P	0.6
2	☐	1.000					
3	☐	1.000		220521.05		P	0.6
4	☐	1.000		223483.57		P	0.4
5	☐	1.000		224410.04		P	0.8
6	☐	1.000		225775.38		P	0.7
7	☐	1.000		225072.60		P	0.2
8	☐	1.000		224960.92		P	0.2
9	☐	1.000		225582.72		P	0.6

103 Rh (ISTD) [No Gas]

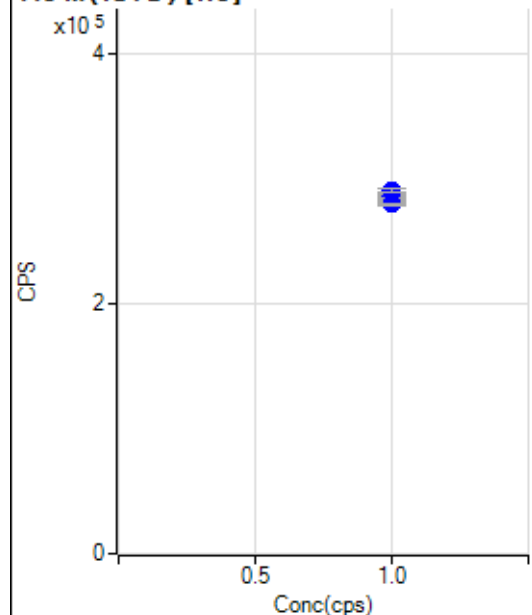
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3548491.53		A	0.6
2	☐	1.000					
3	☐	1.000		3652071.83		A	0.3
4	☐	1.000		3641627.38		A	0.7
5	☐	1.000		3645042.53		A	0.2
6	☐	1.000		3708903.77		A	0.7
7	☐	1.000		3688507.16		A	0.5
8	☐	1.000		3746955.86		A	0.5
9	☐	1.000		3570872.82		A	0.8

103 Rh (ISTD) [He]

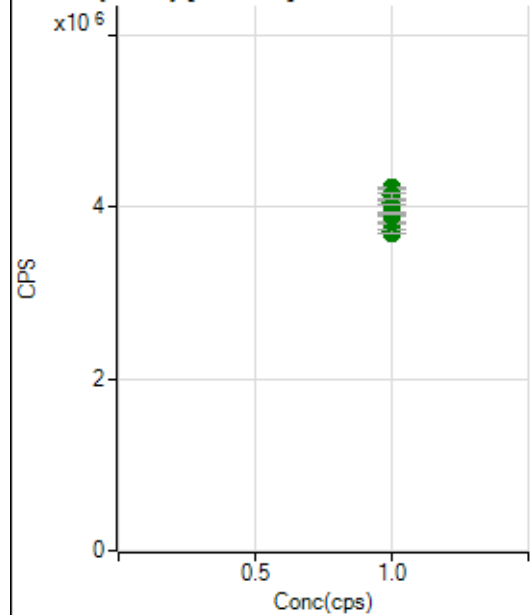
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1434548.61		P	0.3
2	☐	1.000					
3	☐	1.000		1448729.25		P	0.9
4	☐	1.000		1460624.98		P	0.2
5	☐	1.000		1466146.04		P	0.7
6	☐	1.000		1464576.00		P	0.6
7	☐	1.000		1455166.32		P	0.5
8	☐	1.000		1448097.88		P	0.8
9	☐	1.000		1386187.36		P	0.4

115 In (ISTD) [No Gas]

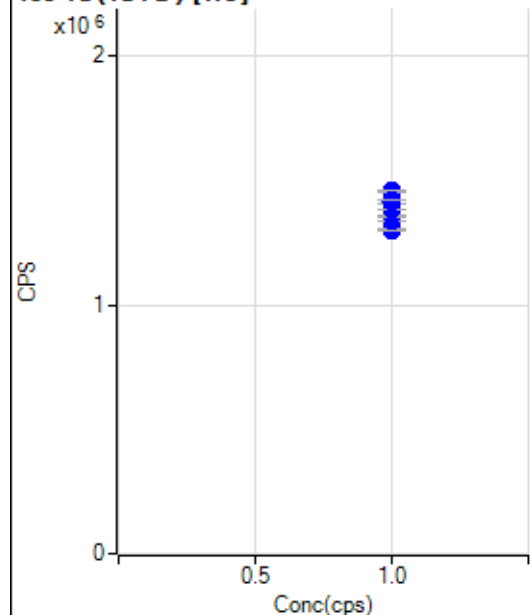
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3491058.00		A	1.2
2	☐	1.000					
3	☐	1.000		3650560.59		A	0.4
4	☐	1.000		3648159.93		A	0.3
5	☐	1.000		3681691.98		A	0.5
6	☐	1.000		3688167.87		A	1.0
7	☐	1.000		3756508.38		A	1.1
8	☐	1.000		3780891.42		A	0.7
9	☐	1.000		3782005.11		A	0.9

115 In (ISTD) [He]

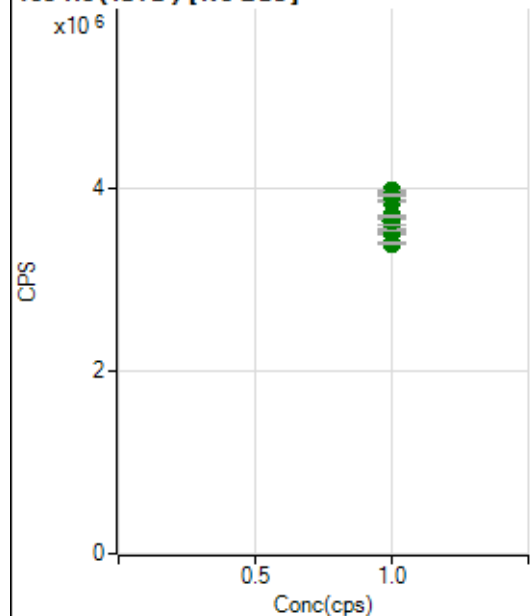
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		281656.73		P	0.3
2	☐	1.000					
3	☐	1.000		284194.65		P	0.2
4	☐	1.000		285509.05		P	0.1
5	☐	1.000		287318.43		P	0.3
6	☐	1.000		287244.12		P	0.2
7	☐	1.000		286262.94		P	0.7
8	☐	1.000		279515.20		P	0.9
9	☐	1.000		290361.50		P	0.9

159 Tb (ISTD) [No Gas]

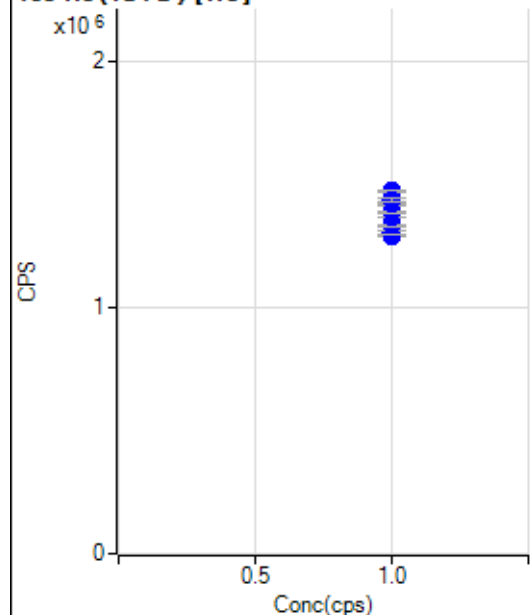
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3694627.30		A	0.4
2	☐	1.000					
3	☐	1.000		3720114.84		A	1.5
4	☐	1.000		3819715.08		A	0.3
5	☐	1.000		3907798.52		A	1.0
6	☐	1.000		3931804.18		A	0.5
7	☐	1.000		4061412.37		A	1.0
8	☐	1.000		4225330.74		A	0.7
9	☐	1.000		4135905.60		A	1.4

159 Tb (ISTD) [He]

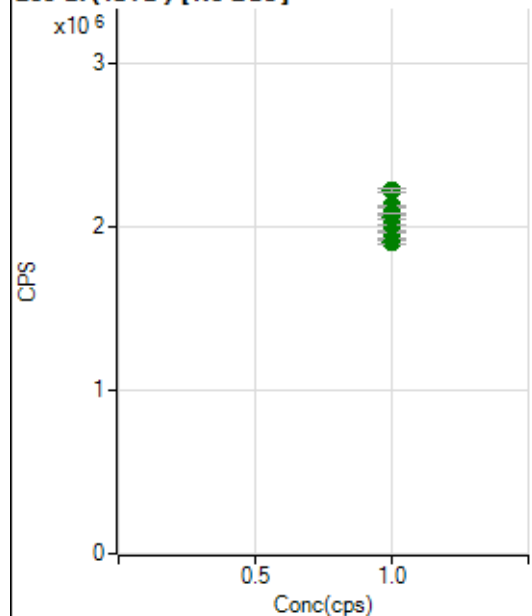
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1303323.53		P	0.9
2	☐	1.000					
3	☐	1.000		1298284.19		P	0.6
4	☐	1.000		1335527.36		P	0.4
5	☐	1.000		1358045.76		P	0.8
6	☐	1.000		1384688.09		P	0.1
7	☐	1.000		1412910.69		P	0.7
8	☐	1.000		1457233.80		P	0.5
9	☐	1.000		1421184.02		P	0.2

165 Ho (ISTD) [No Gas]

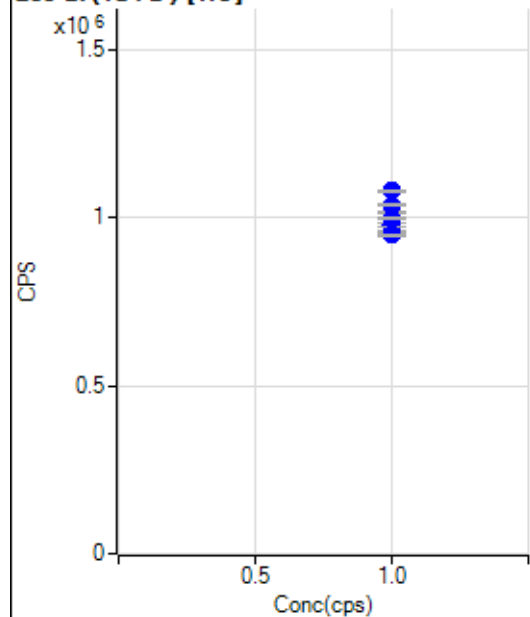
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3398106.41		A	0.7
2	☐	1.000					
3	☐	1.000		3509627.51		A	0.8
4	☐	1.000		3538833.72		A	0.6
5	☐	1.000		3638404.86		A	1.5
6	☐	1.000		3698999.39		A	0.8
7	☐	1.000		3857216.32		A	0.7
8	☐	1.000		3972269.10		A	0.3
9	☐	1.000		3926125.30		A	0.5

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1292483.96		P	0.4
2	☐	1.000					
3	☐	1.000		1305445.00		P	1.3
4	☐	1.000		1334865.97		P	0.6
5	☐	1.000		1368307.27		P	0.1
6	☐	1.000		1389787.52		P	0.7
7	☐	1.000		1420822.32		P	0.1
8	☐	1.000		1476622.57		P	0.3
9	☐	1.000		1438437.75		P	0.9

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1900127.89		A	1.4
2	☐	1.000					
3	☐	1.000		1924449.29		A	0.2
4	☐	1.000		1966597.84		A	0.6
5	☐	1.000		2012777.19		A	0.1
6	☐	1.000		2051457.38		A	1.1
7	☐	1.000		2120722.73		A	0.9
8	☐	1.000		2215883.02		A	1.1
9	☐	1.000		2077184.75		A	0.2

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		957793.68		P	0.6
2	☐	1.000					
3	☐	1.000		949188.38		P	0.6
4	☐	1.000		979621.07		P	0.8
5	☐	1.000		1001483.03		P	0.2
6	☐	1.000		1016651.21		P	0.2
7	☐	1.000		1037507.57		P	0.7
8	☐	1.000		1080506.35		P	0.6
9	☐	1.000		997911.43		P	0.7