

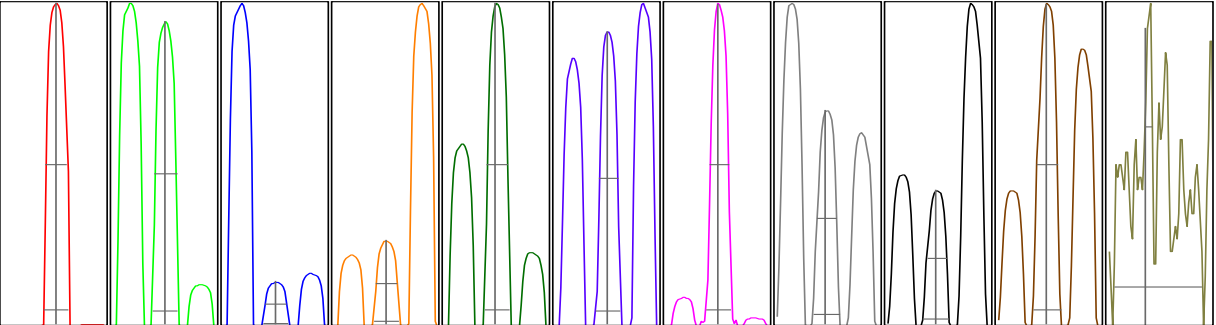
US EPA Tune Check Sample Report

Batch Folder D:\P8071317.b
Report Comment
Instrument Name G8403A JP17141814

[No Gas]				
Mass	Count (Mean)	RSD% (Actual)	RSD% (Required)	RSD% (Flag)
9	6691	0.50	5.00	
24	38441	0.15	5.00	
25	5327	0.53	5.00	
26	6277	0.44	5.00	
59	69397	0.55	5.00	
113	7753	0.29	5.00	
115	97051	0.55	5.00	
206	15193	1.07	5.00	
207	13724	0.84	5.00	
208	32835	0.60	5.00	
220	1	14.51		

Mass	Replicate 1 Count	Replicate 2 Count	Replicate 3 Count	Replicate 4 Count	Replicate 5 Count
9	6702	6734	6649	6665	6702
24	38407	38542	38414	38413	38427
25	5359	5324	5292	5351	5309
26	6312	6282	6261	6289	6240
59	69859	69302	68823	69436	69564
113	7727	7755	7767	7732	7781
115	97203	97796	97045	96892	96320
206	15015	15244	15162	15103	15442
207	13621	13752	13647	13689	13912
208	32544	33004	32724	32911	32991
220	1	2	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	11215	9.10	8.9 - 9.1		0.738	0.900	
24	63704	24.05	23.9 - 24.1		0.738	0.900	
25	8590	25.05	24.9 - 25.1		0.741	0.900	
26	10324	26.05	25.9 - 26.1		0.741	0.900	
59	118856	59.00	58.9 - 59.1		0.737	0.900	
113	14493	113.05	112.9 - 113.1		0.722	0.900	
115	180485	115.05	114.9 - 115.1		0.732	0.900	
206	27518	205.95	205.9 - 206.1		0.769	0.900	
207	24677	206.95	206.9 - 207.1		0.744	0.900	
208	58718	207.95	207.9 - 208.1		0.798	0.900	
220	2	219.65	-		2.493		

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	9.5	V	Deflect	14.0	V
Extract 2	-250.0	V	Cell Entrance	-30	V	Plate Bias	-35	V
Omega Bias	-120	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	200	V			

[He]

Mass	Count (Mean)	RSD% (Actual)	RSD% (Required)
59	13345	0.16	
89	3803	0.31	
205	13505	0.21	

Mass	Replicate 1 Count	Replicate 2 Count	Replicate 3 Count	Replicate 4 Count	Replicate 5 Count
59	13367	13330	13339	13368	13324
89	3821	3793	3801	3808	3793
205	13489	13483	13499	13555	13496

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

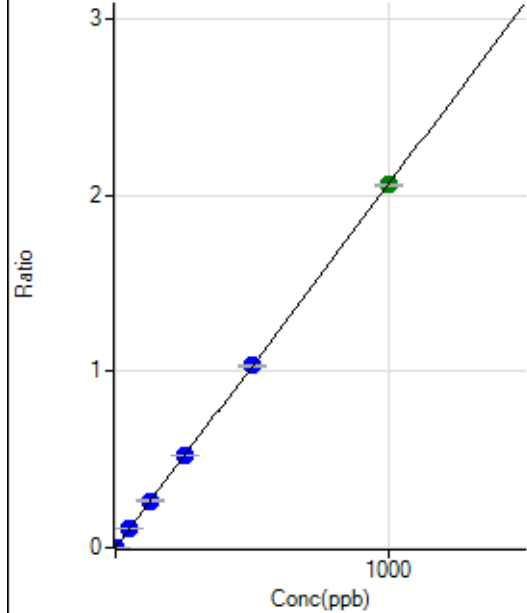
ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
Extract 1	0.0	V	Omega Lens	9.5	V	Deflect	1.8	V
Extract 2	-250.0	V	Cell Entrance	-40	V	Plate Bias	-60	V
Omega Bias	-120	V	Cell Exit	-60	V			

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:\P8071317.b\
Analysis File: P8071317.batch.bin
DA Date-Time: 2017-07-14 16:50:46
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	003CALB.d	S00	2017-07-13 12:23:08
2			
3	005CALS.d	S02	2017-07-13 12:29:52
4	006CALS.d	S03	2017-07-13 12:33:23
5	007CALS.d	S04	2017-07-13 12:36:53
6	008CALS.d	S05	2017-07-13 12:40:20
7	009CALS.d	S06	2017-07-13 12:43:40
8	010CALS.d	S07	2017-07-13 12:46:52
9	011CALS.d	S08	2017-07-13 12:50:01

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

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	74.08	0.0001	P	22.2
2	☐	0.100					
3	☐	1.000	0.882	1300.10	0.0019	P	6.1
4	☐	50.000	50.525	71326.43	0.1043	P	0.6
5	☐	125.000	129.133	183203.10	0.2664	P	0.9
6	☐	250.000	254.334	364928.11	0.5245	P	0.4
7	☐	500.000	500.160	732215.38	1.0314	P	0.2
8	☐	1000.000	998.294	1473418.01	2.0585	A	0.7
9	☐			461.13	0.0007	P	1.4

$$y = 0.0021 * x + 1.0909E-004$$

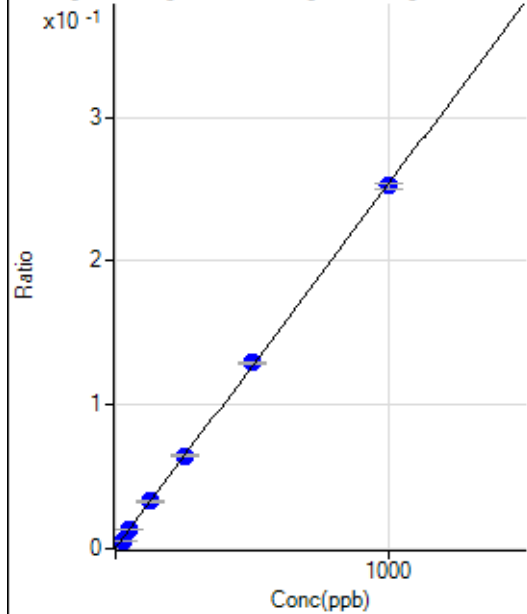
$$R = 1.0000$$

$$DL = 0.03521$$

$$BEC = 0.05291$$

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	338.91	0.0005	P	5.6
2	☐	2.500					
3	☐	25.000	21.014	3920.15	0.0058	P	5.0
4	☐	50.000	50.296	9044.86	0.0132	P	3.7
5	☐	125.000	128.425	22696.50	0.0330	P	3.0
6	☐	250.000	253.571	44991.07	0.0647	P	1.4
7	☐	500.000	508.000	91616.79	0.1290	P	1.1
8	☐	1000.000	994.764	180533.60	0.2522	P	1.8
9	☐			7621.81	0.0108	P	9.9

$$y = 2.5305E-004 * x + 4.9851E-004$$

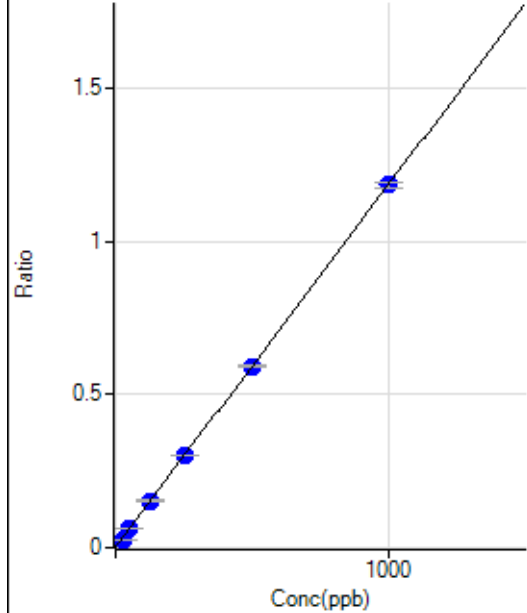
$$R = 0.9999$$

$$DL = 0.3335$$

$$BEC = 1.97$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	1361.24	0.0020	P	7.7
2	☐	2.500					
3	☐	25.000	21.087	18151.14	0.0269	P	3.8
4	☐	50.000	50.318	42065.71	0.0615	P	3.6
5	☐	125.000	127.949	105436.22	0.1533	P	1.2
6	☐	250.000	252.775	209341.29	0.3009	P	1.6
7	☐	500.000	499.474	420707.89	0.5926	P	0.9
8	☐	1000.000	999.282	847174.51	1.1836	P	1.3
9	☐			35784.71	0.0505	P	9.9

$$y = 0.0012 * x + 0.0020$$

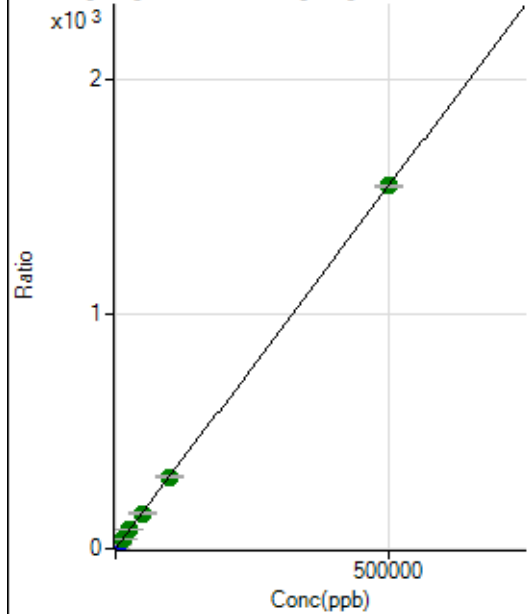
$$R = 1.0000$$

$$DL = 0.39$$

$$BEC = 1.694$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	5220.67	0.1223	P	1.9
2	☐	50.000					
3	☐	500.000	457.707	65411.98	1.5363	P	0.8
4	☐	5000.000	5088.771	688918.64	15.8431	P	0.6
5	☐	12500.000	12976.952	1733474.11	40.2122	A	1.2
6	☐	25000.000	25369.988	3365543.91	78.4982	A	0.3
7	☐	50000.000	48998.478	6578691.77	151.4941	A	0.9
8	☐	100000.00	98994.668	12688702.71	305.9482	A	2.9
9	☐	500000.00	500269.95	65264892.43	1,545.614	A	0.5

$$y = 0.0031 * x + 0.1223$$

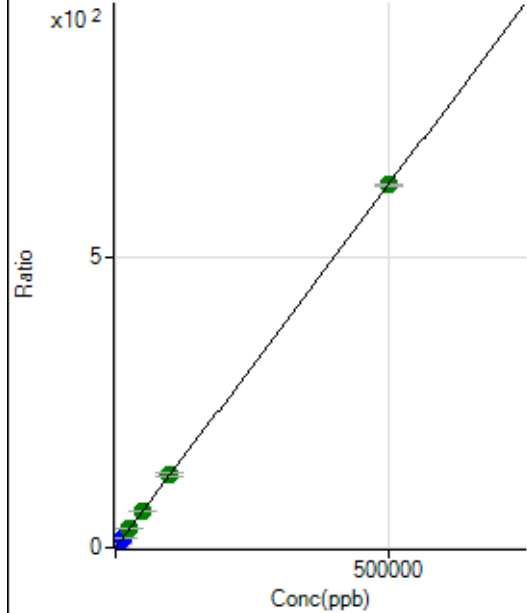
$$R = 1.0000$$

$$DL = 2.298$$

$$BEC = 39.59$$

Weight: <None>

Min Conc: 0

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

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	63.89	0.0015	P	53.0
2	☐	50.000					
3	☐	500.000	450.204	24007.15	0.5639	P	2.3
4	☐	5000.000	5165.269	280624.30	6.4537	P	1.3
5	☐	12500.000	12933.411	696542.95	16.1573	P	0.7
6	☐	25000.000	26019.120	1393560.60	32.5034	A	0.6
7	☐	50000.000	49999.438	2712292.12	62.4586	A	1.1
8	☐	100000.00	100276.91	5194350.90	125.2630	A	3.6
9	☐	500000.00	499881.27	26366933.05	624.4310	A	0.2

$$y = 0.0012 * x + 0.0015$$

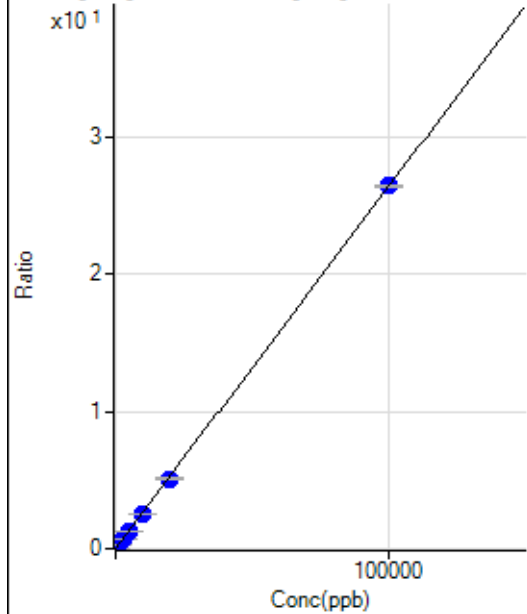
$$R = 1.0000$$

$$DL = 1.91$$

$$BEC = 1.201$$

Weight: <None>

Min Conc: 0

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

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	47.22	0.0011	P	38.0
2	☐	2.000					
3	☐	20.000	12.363	186.12	0.0044	P	10.4
4	☐	1000.000	1006.647	11596.90	0.2667	P	1.0
5	☐	2500.000	2500.262	28482.31	0.6607	P	0.8
6	☐	5000.000	4918.203	55676.66	1.2986	P	1.7
7	☐	10000.000	9580.543	109805.19	2.5286	P	0.6
8	☐	20000.000	19211.526	210253.79	5.0693	P	2.7
9	☐	100000.00	100203.65	1116278.03	26.4359	P	0.2

$$y = 2.6381E-004 * x + 0.0011$$

$$R = 1.0000$$

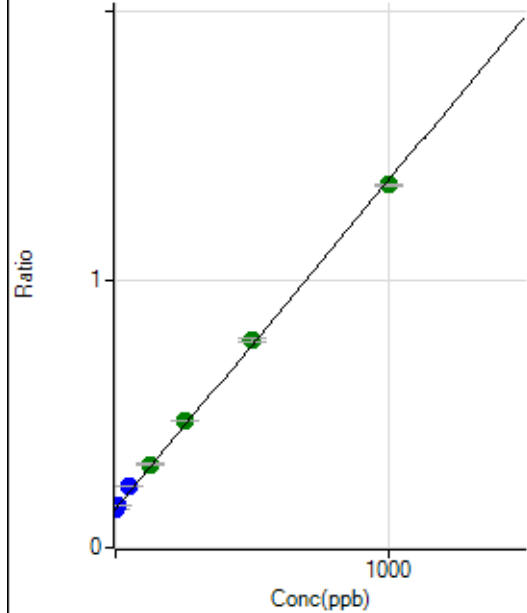
$$DL = 4.8$$

$$BEC = 4.207$$

Weight: <None>

Min Conc: 0

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	433739.83	0.1446	P	0.4
2	☐	1.000					
3	☐	10.000	9.124	463923.47	0.1558	P	0.4
4	☐	50.000	68.688	688558.92	0.2289	P	0.6
5	☐	125.000	135.107	946459.98	0.3103	A	1.5
6	☐	250.000	268.844	1455815.46	0.4744	A	0.4
7	☐	500.000	513.987	2422663.73	0.7752	A	1.1
8	☐	1000.000	986.107	4268500.53	1.3544	A	0.6
9	☐			553022.42	0.1800	P	1.2

$$y = 0.0012 * x + 0.1446$$

$$R = 0.9996$$

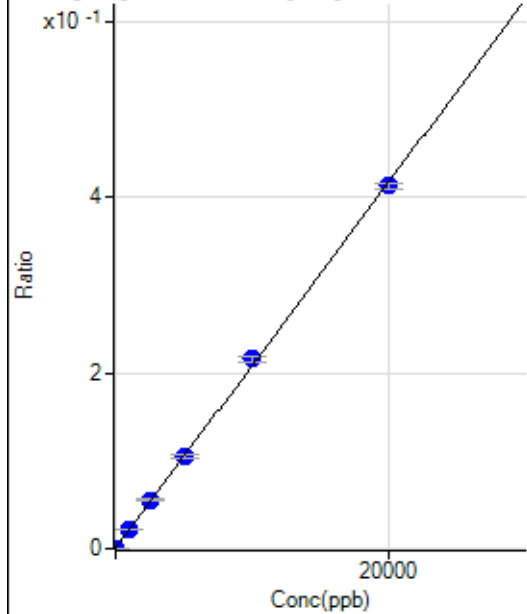
$$DL = 1.252$$

$$BEC = 117.8$$

Weight: <None>

Min Conc: 0

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	3.118	19.44	0.0005	P	49.4
2	☐	0.000					
3	☐	0.000	-3.118	13.89	0.0003	P	68.9
4	☐	1000.000	1034.458	952.85	0.0219	P	4.1
5	☐	2500.000	2639.868	2383.64	0.0553	P	4.2
6	☐	5000.000	5012.491	4487.03	0.1047	P	3.1
7	☐	10000.000	10339.550	9356.26	0.2155	P	3.4
8	☐	20000.000	19807.896	17119.35	0.4124	P	1.5
9	☐			38.89	0.0009	P	44.9

$$y = 2.0801E-005 * x + 3.9048E-004$$

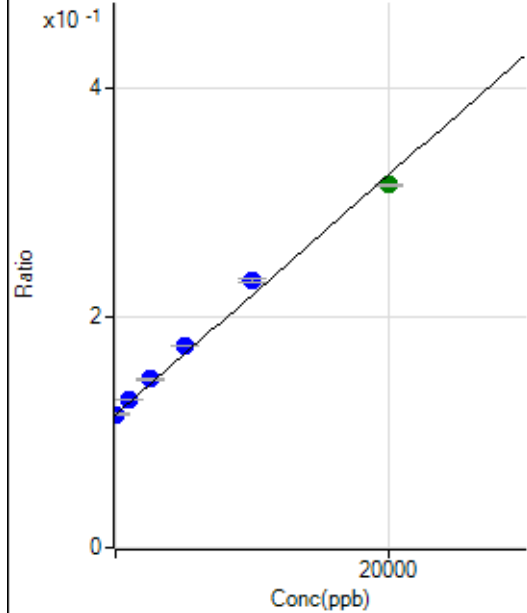
$$R = 0.9998$$

$$DL = 32.42$$

$$BEC = 18.77$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	-7.184	346885.33	0.1156	P	0.3
2	☐	0.000					
3	☐	0.000	7.184	344790.79	0.1158	P	1.3
4	☐	1000.000	1282.475	388359.24	0.1291	P	0.5
5	☐	2500.000	2932.665	446117.08	0.1463	P	1.5
6	☐	5000.000	5778.627	539915.62	0.1759	P	0.2
7	☐	10000.000	11166.393	725397.47	0.2321	P	1.0
8	☐	20000.000	19153.940	993951.60	0.3154	A	0.8
9	☐			393741.86	0.1282	P	1.3

$$y = 1.0425\text{E-}005 * x + 0.1157$$

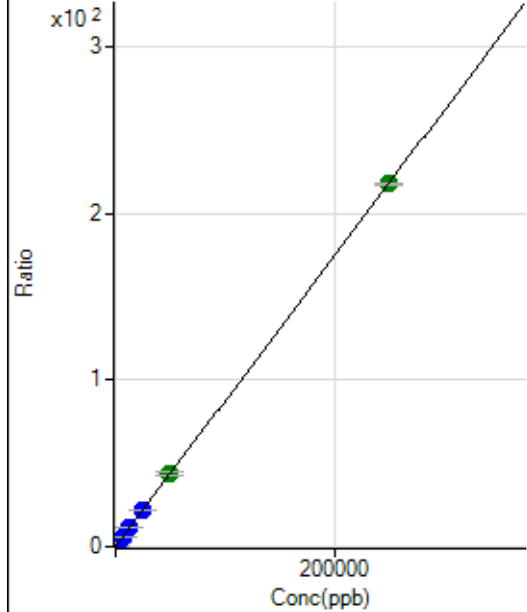
$$R = 0.9964$$

$$DL = 269.3$$

$$BEC = 1.11\text{E}+04$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	5426.31	0.1272	P	4.9
2	☐	50.000					
3	☐	500.000	461.323	22521.68	0.5290	P	1.2
4	☐	2500.000	2551.113	102149.55	2.3492	P	1.0
5	☐	6250.000	6405.845	246009.45	5.7066	P	0.7
6	☐	12500.000	12708.368	480025.61	11.1961	P	0.4
7	☐	25000.000	24612.776	936460.09	21.5649	P	0.8
8	☐	50000.000	50275.178	1821090.01	43.9168	A	3.7
9	☐	250000.00	249968.93	9198984.14	217.8500	A	0.5

$$y = 8.7100\text{E-}004 * x + 0.1272$$

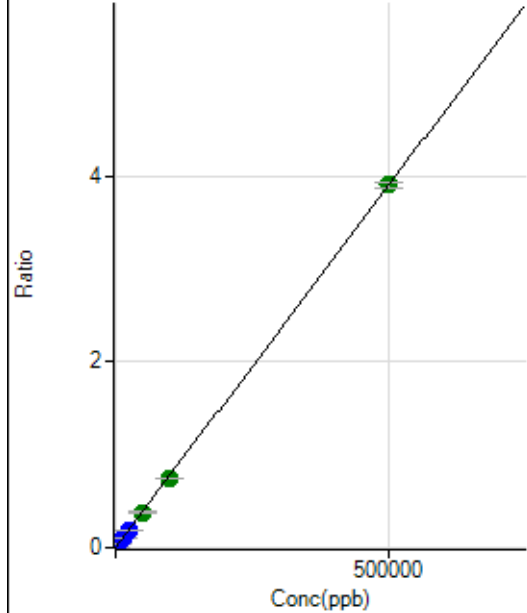
$$R = 1.0000$$

$$DL = 21.4$$

$$BEC = 146$$

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	4036.87	0.0013	P	2.0
2	☐	50.000					
3	☐	500.000	436.045	14121.56	0.0047	P	1.3
4	☐	5000.000	4995.372	121106.24	0.0403	P	0.5
5	☐	12500.000	12437.132	299534.06	0.0982	P	0.6
6	☐	25000.000	24682.908	594028.00	0.1936	P	0.5
7	☐	50000.000	48685.928	1189264.10	0.3805	A	1.3
8	☐	100000.00	96341.013	2369004.89	0.7517	A	0.6
9	☐	500000.00	500880.74	11989337.60	3.9024	A	1.3

$$y = 7.7883\text{E-}006 * x + 0.0013$$

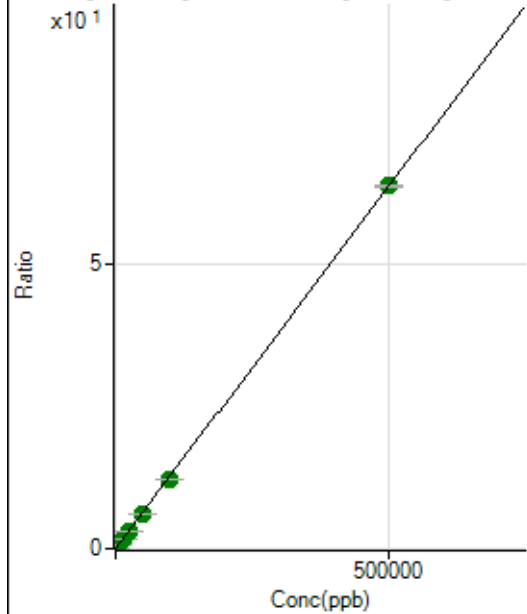
$$R = 1.0000$$

$$DL = 10.2$$

$$BEC = 172.8$$

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	65570.48	0.0219	P	0.6
2	☐	50.000					
3	☐	500.000	427.576	227081.98	0.0763	P	0.8
4	☐	5000.000	5103.575	2019316.80	0.6711	A	0.4
5	☐	12500.000	12356.012	4860798.85	1.5938	A	1.1
6	☐	25000.000	24401.934	9592914.19	3.1262	A	1.2
7	☐	50000.000	48423.608	19320924.22	6.1823	A	0.6
8	☐	100000.00	96012.045	38564224.13	12.2364	A	0.6
9	☐	500000.00	500987.77	195891325.2	63.7569	A	0.6

$$y = 1.2722\text{E-}004 * x + 0.0219$$

$$R = 1.0000$$

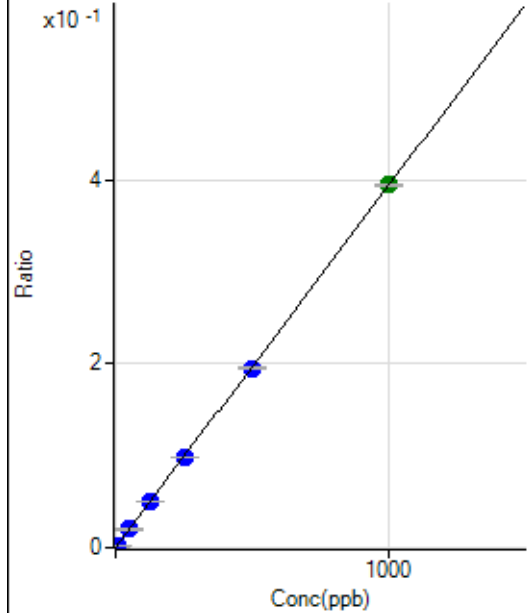
$$DL = 3.332$$

$$BEC = 171.8$$

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	194.46	0.0001	P	6.2
2	☐	0.500					
3	☐	5.000	4.212	5126.15	0.0017	P	1.7
4	☐	50.000	50.559	60015.55	0.0199	P	1.2
5	☐	125.000	126.261	151605.49	0.0497	P	2.3
6	☐	250.000	250.197	302096.96	0.0984	P	0.8
7	☐	500.000	495.520	609167.62	0.1949	P	0.4
8	☐	1000.000	1002.009	1242011.21	0.3941	A	0.3
9	☐			1539.09	0.0005	P	12.6

$$y = 3.9323\text{E-}004 * x + 6.4812\text{E-}005$$

$$R = 1.0000$$

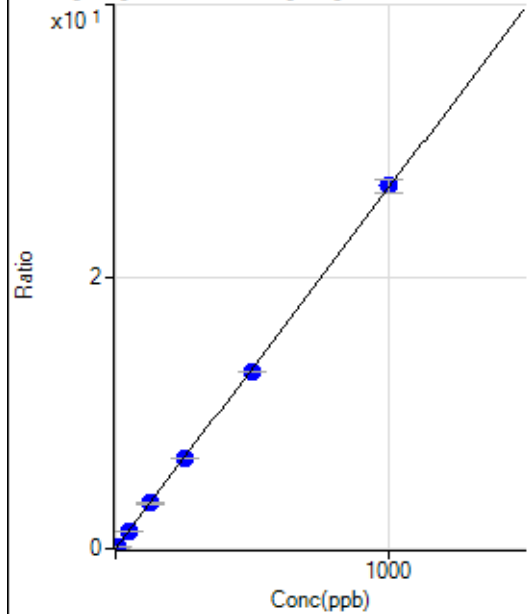
$$DL = 0.03079$$

$$BEC = 0.1648$$

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	28.89	0.0007	P	36.7
2	☐	0.500					
3	☐	5.000	4.359	4959.86	0.1165	P	2.7
4	☐	50.000	49.942	57721.76	1.3275	P	1.0
5	☐	125.000	125.638	143912.56	3.3385	P	1.2
6	☐	250.000	250.446	285291.63	6.6542	P	0.3
7	☐	500.000	488.945	564119.70	12.9903	P	0.5
8	☐	1000.000	1005.342	1107526.20	26.7092	P	3.7
9	☐			868.93	0.0206	P	14.0

$$y = 0.0266 * x + 6.7631\text{E-}004$$

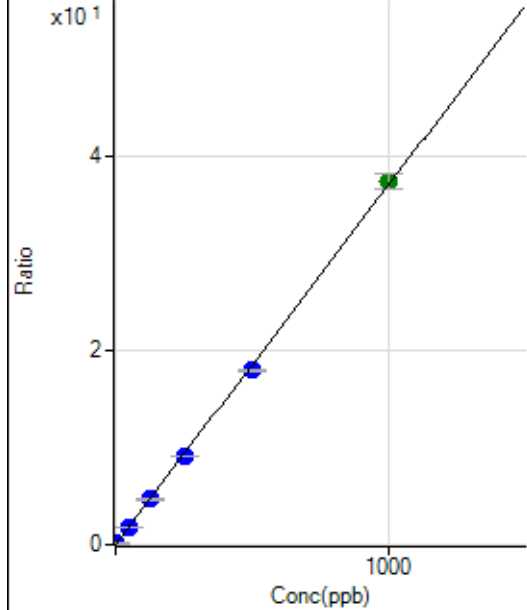
$$R = 0.9999$$

$$DL = 0.02805$$

$$BEC = 0.02546$$

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	1274.53	0.0299	P	5.1
2	☐	0.200					
3	☐	2.000	1.879	4230.71	0.0994	P	3.1
4	☐	50.000	49.494	80928.06	1.8611	P	0.2
5	☐	125.000	125.418	201322.89	4.6701	P	0.8
6	☐	250.000	247.376	393688.39	9.1824	P	0.4
7	☐	500.000	483.753	778527.92	17.9280	P	0.8
8	☐	1000.000	1008.753	1548744.79	37.3521	A	4.1
9	☐			40381.63	0.9563	P	1.1

$$y = 0.0370 * x + 0.0299$$

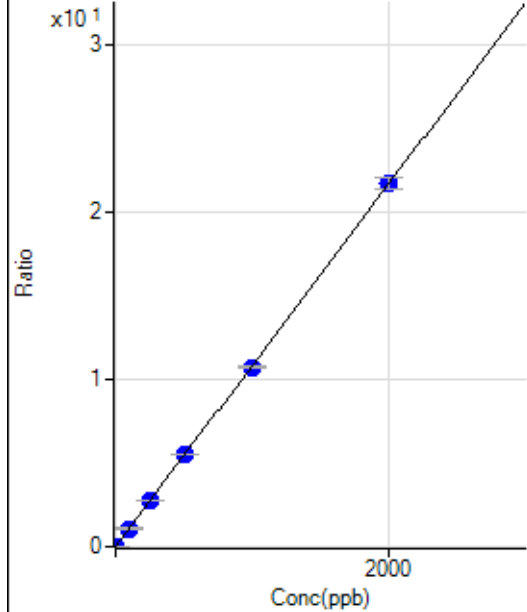
$$R = 0.9998$$

$$DL = 0.1246$$

$$BEC = 0.8073$$

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	98.89	0.0023	P	16.0
2	☐	0.100					
3	☐	1.000	0.890	510.02	0.0120	P	7.9
4	☐	100.000	100.588	47558.62	1.0936	P	0.8
5	☐	250.000	255.394	119544.94	2.7732	P	1.5
6	☐	500.000	508.696	236725.01	5.5214	P	0.5
7	☐	1000.000	989.589	466331.62	10.7388	P	1.1
8	☐	2000.000	2002.328	901010.16	21.7265	P	3.2
9	☐			3901.72	0.0924	P	1.7

$$y = 0.0108 * x + 0.0023$$

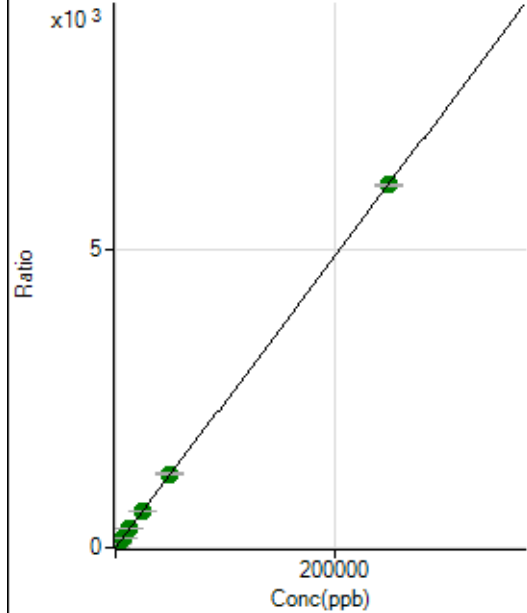
$$R = 1.0000$$

$$DL = 0.1026$$

$$BEC = 0.2138$$

Weight: <None>

Min Conc: 0

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

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	4515.68	0.1058	P	1.0
2	☐	5.000					
3	☐	50.000	44.967	51276.10	1.2043	P	1.5
4	☐	2500.000	2574.892	2740076.68	63.0108	A	0.9
5	☐	6250.000	6478.612	6827818.09	158.3794	A	0.5
6	☐	12500.000	12776.080	13386508.40	312.2276	A	0.2
7	☐	25000.000	24993.731	26520519.11	610.7068	A	0.6
8	☐	50000.000	50726.300	51396259.02	1,239.357	A	3.3
9	☐	250000.00	249835.10	257728346.5	6,103.619	A	0.4

$$y = 0.0244 * x + 0.1058$$

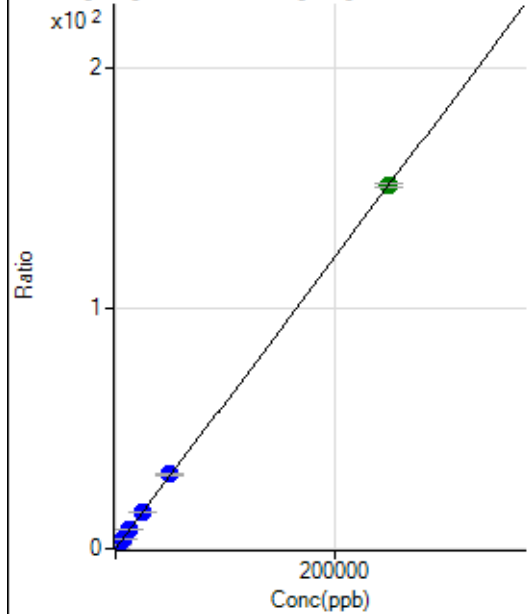
$$R = 1.0000$$

$$DL = 0.1278$$

$$BEC = 4.331$$

Weight: <None>

Min Conc: 0

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

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	129.64	0.0030	P	10.1
2	☐	5.000					
3	☐	50.000	46.050	1314.92	0.0309	P	1.3
4	☐	2500.000	2555.983	67334.63	1.5486	P	1.4
5	☐	6250.000	6512.658	169884.78	3.9410	P	1.4
6	☐	12500.000	12871.468	333817.53	7.7860	P	0.5
7	☐	25000.000	25213.959	662200.17	15.2491	P	0.7
8	☐	50000.000	51213.575	1284276.07	30.9702	P	3.5
9	☐	250000.00	249710.19	6375778.15	150.9944	A	0.9

$$y = 6.0467E-004 * x + 0.0030$$

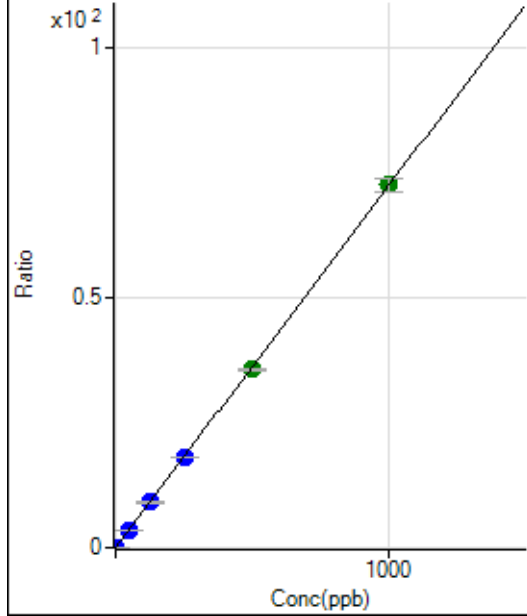
$$R = 1.0000$$

$$DL = 1.529$$

$$BEC = 5.024$$

Weight: <None>

Min Conc: 0

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

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	136.67	0.0032	P	4.6
2	☐	0.100					
3	☐	1.000	0.874	2828.11	0.0664	P	1.4
4	☐	50.000	49.543	156037.91	3.5884	P	0.4
5	☐	125.000	125.426	391396.71	9.0796	P	1.2
6	☐	250.000	248.881	772310.81	18.0133	P	0.4
7	☐	500.000	493.990	1552462.72	35.7504	A	0.9
8	☐	1000.000	1003.254	3010781.24	72.6029	A	3.4
9	☐			5052.11	0.1196	P	3.2

$$y = 0.0724 * x + 0.0032$$

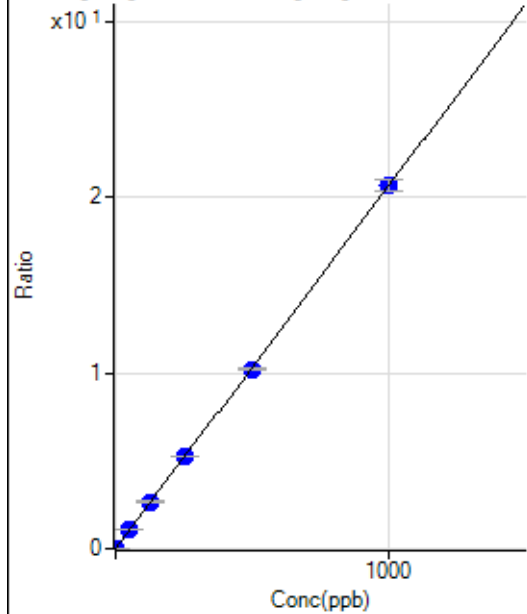
$$R = 1.0000$$

$$DL = 0.006088$$

$$BEC = 0.04426$$

Weight: <None>

Min Conc: 0

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

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	80.00	0.0019	P	17.4
2	☐	0.100					
3	☐	1.000	0.880	853.38	0.0200	P	6.2
4	☐	50.000	51.418	46233.24	1.0632	P	0.9
5	☐	125.000	129.146	114992.07	2.6677	P	1.8
6	☐	250.000	255.556	226247.71	5.2770	P	0.2
7	☐	500.000	495.276	444042.69	10.2253	P	0.5
8	☐	1000.000	1000.384	856469.83	20.6516	P	3.0
9	☐			13382.19	0.3169	P	1.1

$$y = 0.0206 * x + 0.0019$$

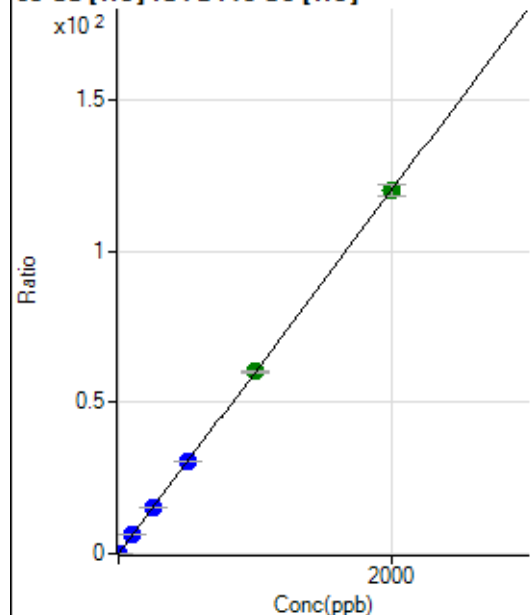
$$R = 1.0000$$

$$DL = 0.04739$$

$$BEC = 0.09087$$

Weight: <None>

Min Conc: 0

⁶³Cu [He] ISTD:45 Sc [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	478.90	0.0112	P	3.9
2	☐	0.200					
3	☐	2.000	2.044	5705.70	0.1340	P	3.4
4	☐	100.000	101.805	266341.53	6.1251	P	1.0
5	☐	250.000	256.395	664255.98	15.4090	P	0.9
6	☐	500.000	506.431	1304440.31	30.4249	P	0.2
7	☐	1000.000	1001.206	2611601.11	60.1385	A	0.6
8	☐	2000.000	1996.900	4973752.08	119.9348	A	3.3
9	☐			10396.27	0.2462	P	0.8

$$y = 0.0601 * x + 0.0112$$

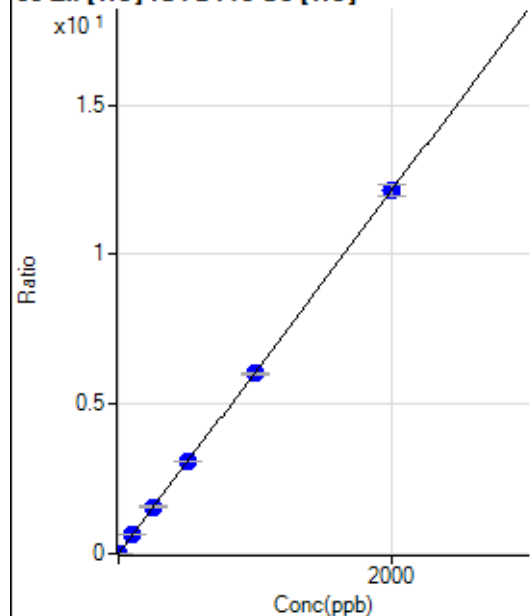
$$R = 1.0000$$

$$DL = 0.02209$$

$$BEC = 0.1869$$

Weight: <None>

Min Conc: 0

⁶⁶Zn [He] ISTD:45 Sc [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	64.44	0.0015	P	12.0
2	☐	0.200					
3	☐	2.000	1.958	570.02	0.0134	P	5.8
4	☐	100.000	101.411	26813.89	0.6167	P	1.4
5	☐	250.000	258.514	67658.51	1.5696	P	1.9
6	☐	500.000	511.051	132974.00	3.1015	P	0.4
7	☐	1000.000	993.360	261724.33	6.0271	P	1.3
8	☐	2000.000	1999.423	503025.35	12.1298	P	3.3
9	☐			3513.84	0.0832	P	1.8

$$y = 0.0061 * x + 0.0015$$

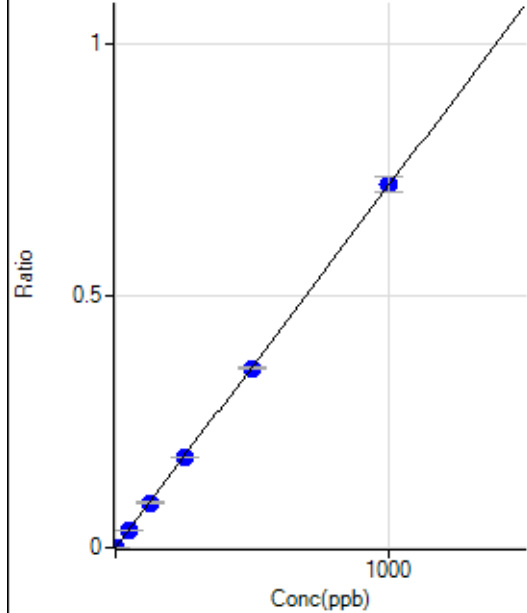
$$R = 1.0000$$

$$DL = 0.08974$$

$$BEC = 0.2487$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	15.43	0.0001	P	18.5
2	☐	0.100					
3	☐	1.000	0.792	164.20	0.0006	P	11.5
4	☐	50.000	49.652	9474.92	0.0357	P	1.0
5	☐	125.000	124.791	23931.27	0.0896	P	0.3
6	☐	250.000	247.970	47577.78	0.1780	P	0.6
7	☐	500.000	496.071	95370.49	0.3561	P	0.5
8	☐	1000.000	1002.516	186118.48	0.7196	P	4.2
9	☐			90.12	0.0003	P	1.1

$$y = 7.1775\text{E-}004 * x + 5.8864\text{E-}005$$

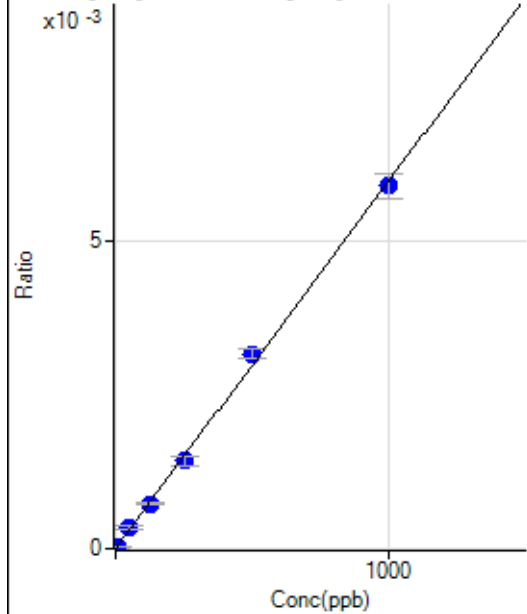
$$R = 1.0000$$

$$DL = 0.04557$$

$$BEC = 0.08201$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	1.11	0.0000	P	173.
2	☐	0.500					
3	☐	5.000	3.563	6.67	0.0000	P	49.4
4	☐	50.000	56.998	91.11	0.0003	P	17.6
5	☐	125.000	122.295	195.56	0.0007	P	7.8
6	☐	250.000	238.811	381.12	0.0014	P	10.7
7	☐	500.000	530.332	846.71	0.0032	P	5.3
8	☐	1000.000	987.627	1521.22	0.0059	P	6.6
9	☐			0.00	0.0000	P	

$$y = 5.9544\text{E-}006 * x + 4.2199\text{E-}006$$

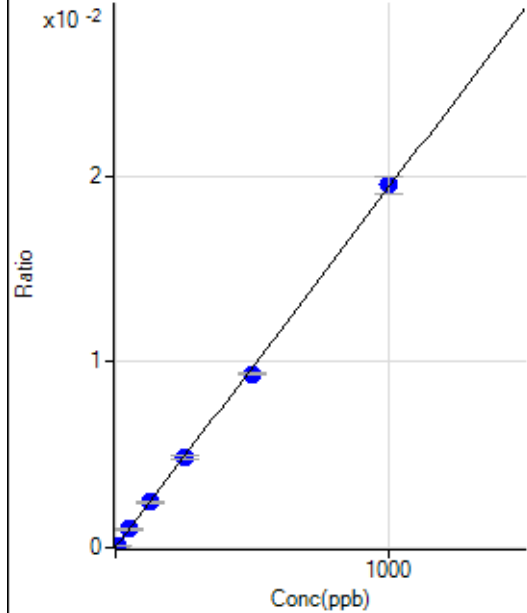
$$R = 0.9992$$

$$DL = 3.682$$

$$BEC = 0.7087$$

Weight: <None>

Min Conc: 0

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

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	4.94	0.0000	P	94.3
2	☐	0.500					
3	☐	5.000	4.141	25.93	0.0001	P	18.4
4	☐	50.000	52.012	272.23	0.0010	P	11.4
5	☐	125.000	125.080	651.87	0.0024	P	1.8
6	☐	250.000	251.525	1306.87	0.0049	P	3.6
7	☐	500.000	482.678	2508.89	0.0094	P	2.0
8	☐	1000.000	1008.173	5054.68	0.0195	P	5.0
9	☐			8.64	0.0000	P	44.7

$$y = 1.9369E-005 * x + 1.8869E-005$$

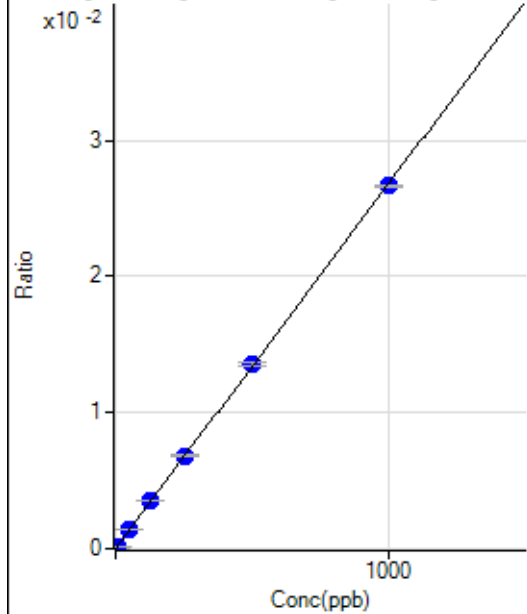
$$R = 0.9998$$

$$DL = 2.756$$

$$BEC = 0.9742$$

Weight: <None>

Min Conc: 0

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

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	-56.16	0.0000	P	-99.
2	☐	0.500					
3	☐	5.000	4.287	469.71	0.0001	P	10.0
4	☐	50.000	52.365	6435.18	0.0014	P	2.3
5	☐	125.000	130.790	16377.86	0.0035	P	0.2
6	☐	250.000	255.016	32441.24	0.0068	P	1.8
7	☐	500.000	506.325	65867.90	0.0136	P	1.7
8	☐	1000.000	994.745	132901.22	0.0266	P	0.6
9	☐			81.59	0.0000	P	97.2

$$y = 2.6796E-005 * x - 1.2130E-005$$

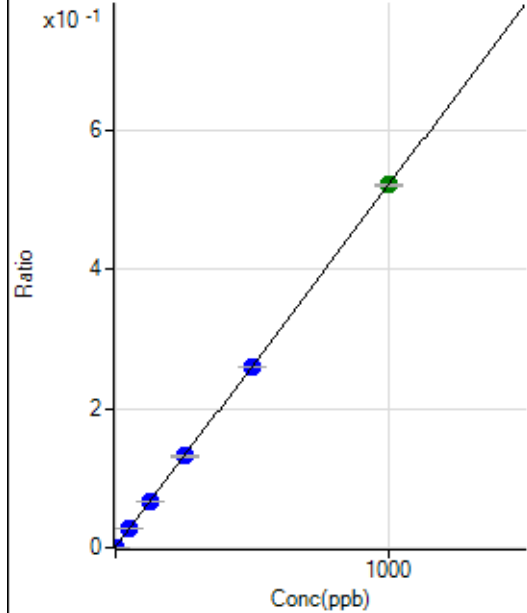
$$R = 0.9999$$

$$DL = 1.355$$

$$BEC = -0.4527$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	2244.74	0.0005	P	9.3
2	☐	0.100					
3	☐	1.000	0.899	4359.23	0.0010	P	3.5
4	☐	50.000	50.102	123051.67	0.0266	P	1.7
5	☐	125.000	126.139	310693.48	0.0663	P	1.4
6	☐	250.000	251.917	627047.12	0.1318	P	1.6
7	☐	500.000	497.765	1263680.38	0.2600	P	0.6
8	☐	1000.000	1000.491	2604807.18	0.5222	A	0.5
9	☐			91766.21	0.0186	P	0.2

$$y = 5.2145\text{E-}004 * x + 4.8466\text{E-}004$$

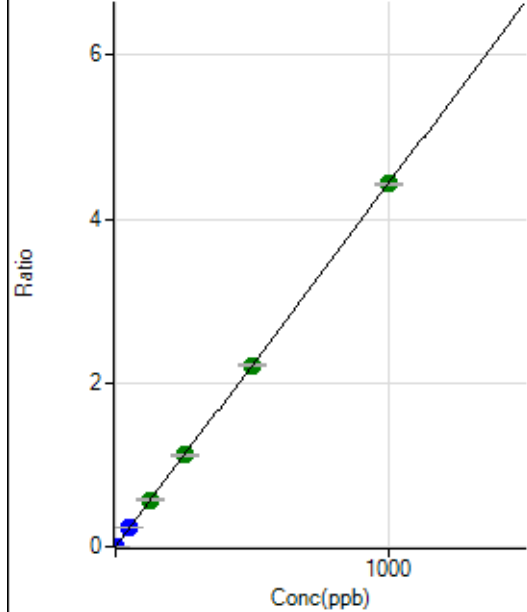
$$R = 1.0000$$

$$DL = 0.2594$$

$$BEC = 0.9294$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	188.90	0.0000	P	36.9
2	☐	0.100					
3	☐	1.000	0.923	18891.57	0.0041	P	2.7
4	☐	50.000	50.903	1043370.65	0.2256	P	0.8
5	☐	125.000	129.374	2688495.74	0.5733	A	1.1
6	☐	250.000	252.132	5314185.15	1.1173	A	0.8
7	☐	500.000	499.291	10751975.59	2.2126	A	0.5
8	☐	1000.000	999.230	22087528.45	4.4280	A	0.6
9	☐			766078.79	0.1552	P	0.9

$$y = 0.0044 * x + 4.0771\text{E-}005$$

$$R = 1.0000$$

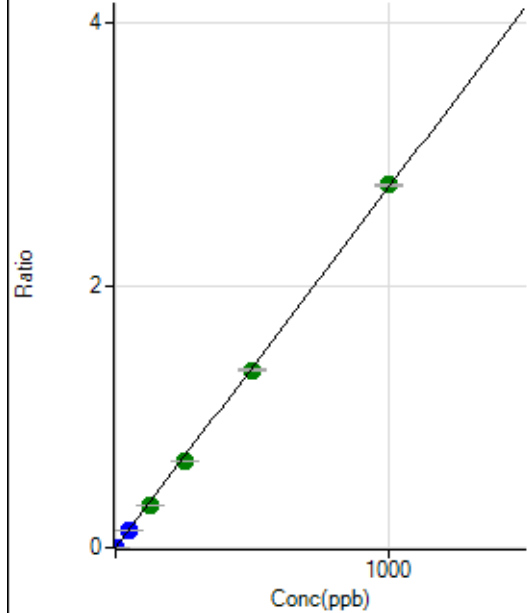
$$DL = 0.01019$$

$$BEC = 0.009201$$

Weight: <None>

Min Conc: 0

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	330.59	0.0001	P	17.5
2	☐	0.100					
3	☐	1.000	0.866	11199.60	0.0024	P	3.1
4	☐	50.000	46.720	593744.09	0.1284	P	0.9
5	☐	125.000	119.234	1536009.55	0.3275	A	1.3
6	☐	250.000	239.723	3131581.69	0.6585	A	1.4
7	☐	500.000	492.652	6575235.47	1.3531	A	1.0
8	☐	1000.000	1007.128	13798053.61	2.7661	A	0.6
9	☐			3709.05	0.0008	P	12.3

$$y = 0.0027 * x + 7.1355E-005$$

$$R = 0.9999$$

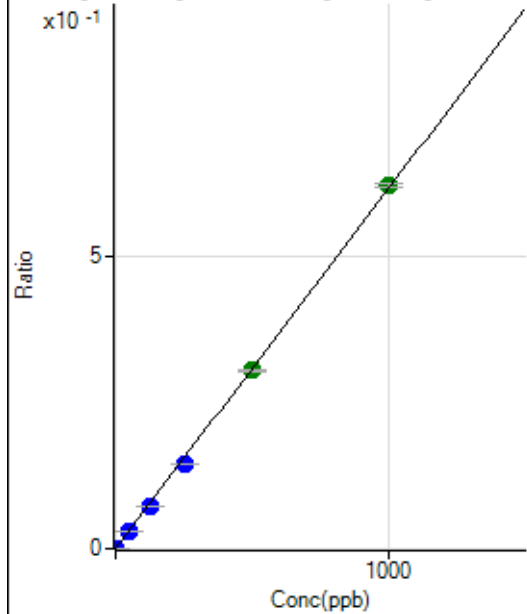
$$DL = 0.01367$$

$$BEC = 0.02598$$

Weight: <None>

Min Conc: 0

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	58.33	0.0000	P	51.6
2	☐	0.100					
3	☐	1.000	0.883	2542.01	0.0006	P	2.9
4	☐	50.000	46.793	133197.66	0.0288	P	0.8
5	☐	125.000	116.507	336159.48	0.0717	P	1.3
6	☐	250.000	236.112	690967.64	0.1453	P	0.7
7	☐	500.000	495.094	1480168.22	0.3046	A	1.5
8	☐	1000.000	1007.147	3090792.67	0.6196	A	0.9
9	☐			819.51	0.0002	P	11.7

$$y = 6.1523E-004 * x + 1.2596E-005$$

$$R = 0.9999$$

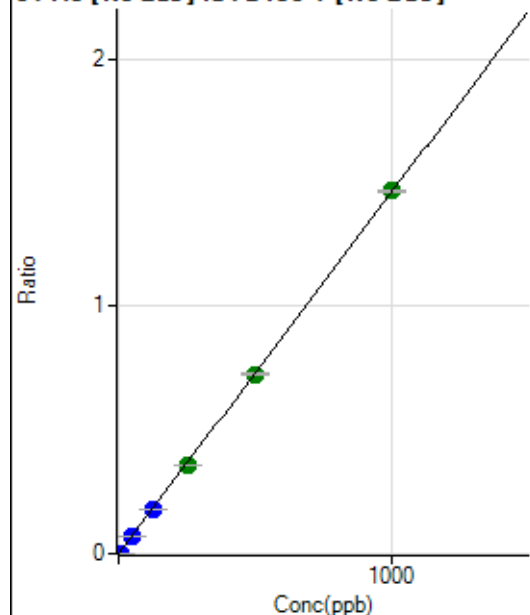
$$DL = 0.03169$$

$$BEC = 0.02047$$

Weight: <None>

Min Conc: 0

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	188.91	0.0000	P	30.8
2	☐	0.500					
3	☐	5.000	1.947	13187.49	0.0029	P	0.8
4	☐	50.000	47.962	324188.52	0.0701	P	1.2
5	☐	125.000	120.525	825764.53	0.1761	P	0.7
6	☐	250.000	245.158	1703326.90	0.3582	A	1.8
7	☐	500.000	495.901	3520274.86	0.7244	A	1.4
8	☐	1000.000	1003.937	7315629.33	1.4666	A	0.4
9	☐			11444.18	0.0023	P	4.4

$$y = 0.0015 * x + 4.0769E-005$$

$$R = 1.0000$$

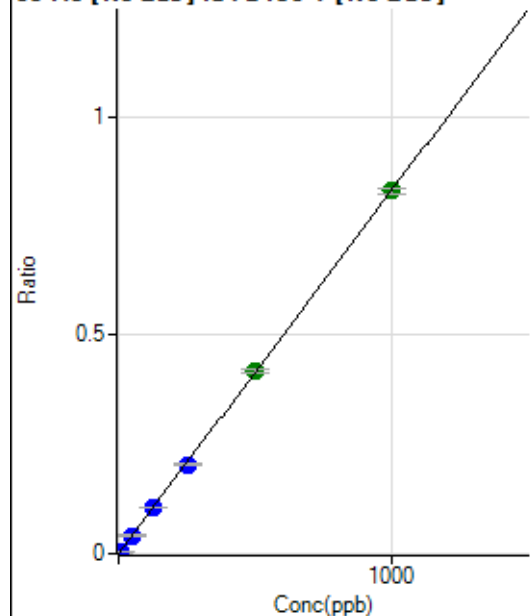
$$DL = 0.0258$$

$$BEC = 0.02791$$

Weight: <None>

Min Conc: 0

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	61.11	0.0000	P	43.6
2	☐	0.500					
3	☐	5.000	4.251	16201.98	0.0035	P	3.2
4	☐	50.000	49.985	192048.45	0.0415	P	1.8
5	☐	125.000	125.221	487770.81	0.1040	P	1.2
6	☐	250.000	245.041	968055.33	0.2035	P	1.4
7	☐	500.000	503.584	2032628.39	0.4183	A	1.5
8	☐	1000.000	999.424	4140781.65	0.8302	A	1.3
9	☐			17587.06	0.0036	P	4.8

$$y = 8.3062E-004 * x + 1.3187E-005$$

$$R = 1.0000$$

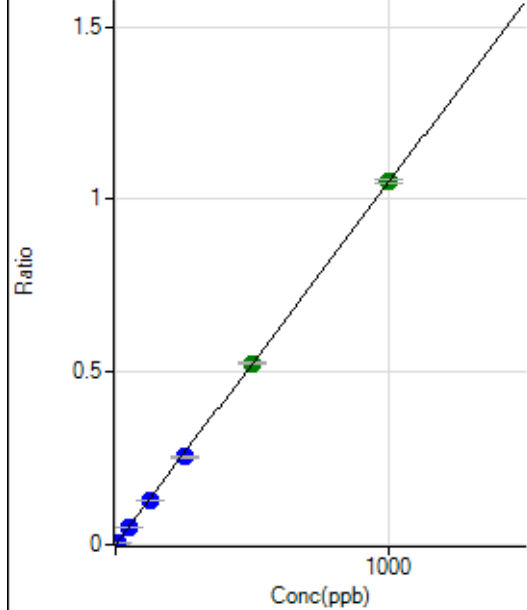
$$DL = 0.02078$$

$$BEC = 0.01588$$

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	97.23	0.0000	P	10.0
2	☐	0.500					
3	☐	5.000	3.694	17809.62	0.0039	P	1.4
4	☐	50.000	49.191	238694.38	0.0516	P	1.9
5	☐	125.000	123.238	606275.73	0.1293	P	0.6
6	☐	250.000	242.949	1212122.57	0.2549	P	1.2
7	☐	500.000	500.229	2549815.10	0.5247	A	1.3
8	☐	1000.000	1001.915	5242498.03	1.0510	A	1.1
9	☐			20830.71	0.0042	P	0.9

$$y = 0.0010 * x + 2.0991E-005$$

$$R = 1.0000$$

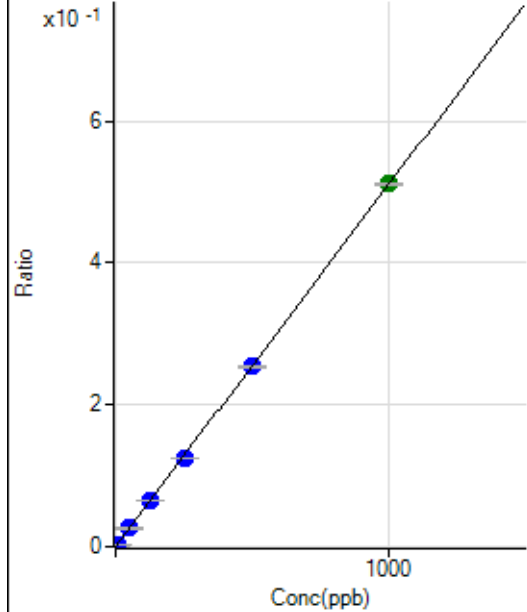
$$DL = 0.005998$$

$$BEC = 0.02001$$

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	61.11	0.0000	P	28.5
2	☐	0.500					
3	☐	5.000	4.365	10234.85	0.0022	P	2.3
4	☐	50.000	50.507	119137.61	0.0258	P	2.7
5	☐	125.000	125.884	301038.02	0.0642	P	0.9
6	☐	250.000	245.525	595467.10	0.1252	P	1.1
7	☐	500.000	497.074	1231679.33	0.2535	P	1.0
8	☐	1000.000	1002.449	2549729.72	0.5111	A	0.8
9	☐			10776.96	0.0022	P	2.6

$$y = 5.0989E-004 * x + 1.3198E-005$$

$$R = 1.0000$$

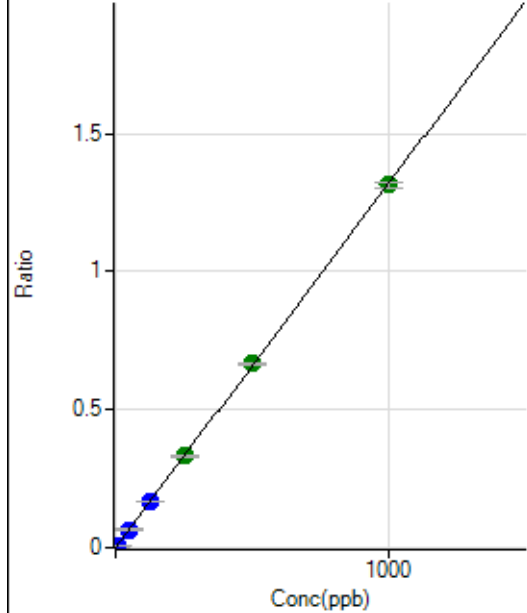
$$DL = 0.02215$$

$$BEC = 0.02588$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	97.23	0.0000	P	42.4
2	☐	0.500					
3	☐	5.000	4.276	25864.52	0.0057	P	0.9
4	☐	50.000	49.935	304496.04	0.0659	P	2.1
5	☐	125.000	125.728	777307.59	0.1658	P	0.8
6	☐	250.000	251.062	1574155.03	0.3310	A	2.0
7	☐	500.000	505.694	3239587.92	0.6667	A	1.1
8	☐	1000.000	996.803	6554827.32	1.3141	A	1.7
9	☐			27233.84	0.0055	P	2.8

$$y = 0.0013 * x + 2.1001E-005$$

$$R = 1.0000$$

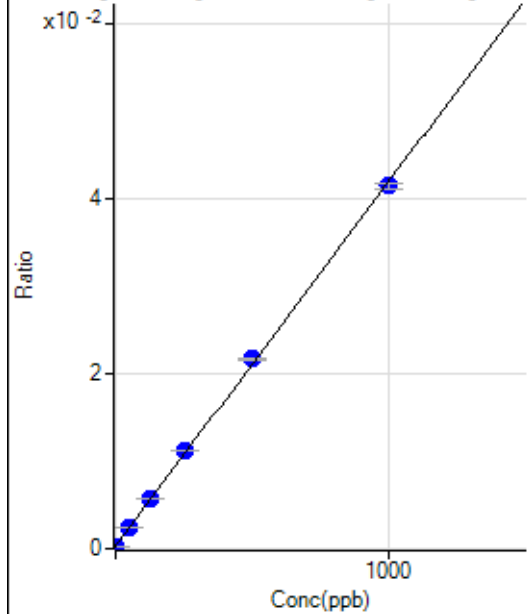
$$DL = 0.02026$$

$$BEC = 0.01593$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	1227.90	0.0003	P	12.3
2	☐	0.100					
3	☐	1.000	0.151	1255.68	0.0003	P	2.1
4	☐	50.000	50.518	10462.84	0.0024	P	2.9
5	☐	125.000	131.450	25572.30	0.0058	P	1.7
6	☐	250.000	263.191	51156.50	0.0113	P	0.3
7	☐	500.000	513.701	102258.39	0.0217	P	0.6
8	☐	1000.000	989.020	205913.64	0.0415	P	1.5
9	☐			1272.34	0.0003	P	12.3

$$y = 4.1707E-005 * x + 2.8677E-004$$

$$R = 0.9997$$

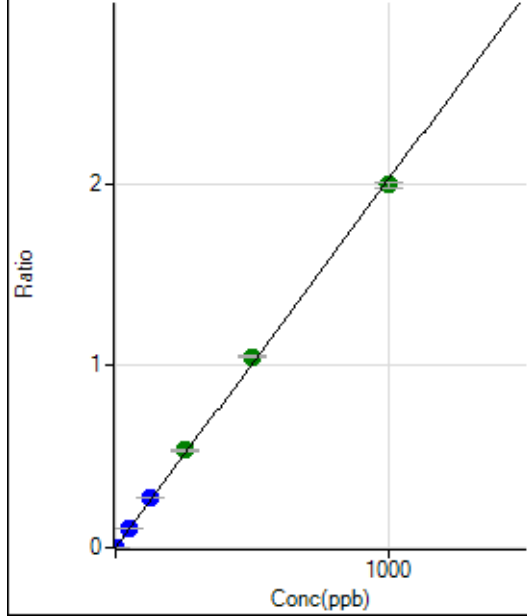
$$DL = 2.54$$

$$BEC = 6.876$$

Weight: <None>

Min Conc: 0

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	25.00	0.0000	P	66.1
2	☐	0.100					
3	☐	1.000	1.240	10763.07	0.0025	P	3.1
4	☐	50.000	53.697	474368.19	0.1085	P	1.6
5	☐	125.000	134.467	1204480.05	0.2717	P	0.6
6	☐	250.000	264.438	2427029.76	0.5344	A	1.6
7	☐	500.000	519.169	4941236.92	1.0492	A	0.4
8	☐	1000.000	985.437	9872515.50	1.9914	A	1.5
9	☐			2133.60	0.0004	P	13.2

$$y = 0.0020 * x + 5.8397E-006$$

$$R = 0.9996$$

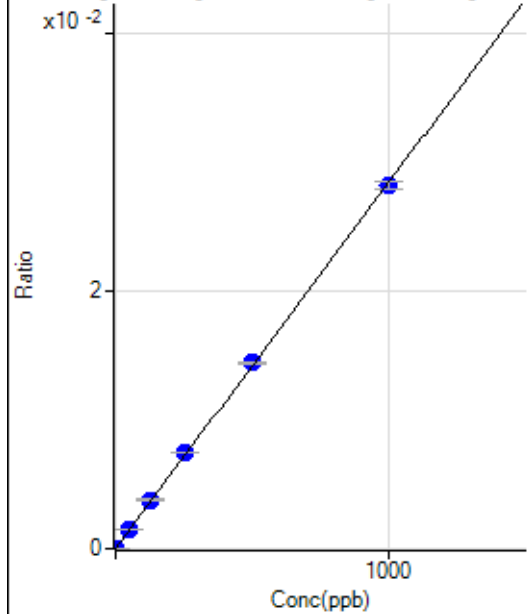
$$DL = 0.005734$$

$$BEC = 0.00289$$

Weight: <None>

Min Conc: 0

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	13.89	0.0000	P	45.3
2	☐	0.100					
3	☐	1.000	0.926	126.39	0.0000	P	25.6
4	☐	50.000	53.178	6612.87	0.0015	P	1.9
5	☐	125.000	132.835	16727.32	0.0038	P	2.8
6	☐	250.000	261.883	33775.91	0.0074	P	1.1
7	☐	500.000	508.681	68017.99	0.0144	P	1.2
8	☐	1000.000	991.551	139541.66	0.0281	P	2.3
9	☐			56.95	0.0000	P	34.9

$$y = 2.8386E-005 * x + 3.2394E-006$$

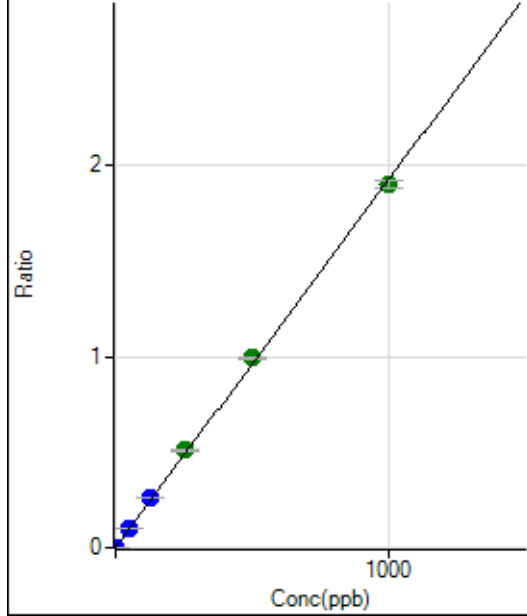
$$R = 0.9999$$

$$DL = 0.1551$$

$$BEC = 0.1141$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	52.78	0.0000	P	32.9
2	☐	0.100					
3	☐	1.000	1.265	10482.31	0.0024	P	2.9
4	☐	50.000	54.104	455265.02	0.1041	P	0.8
5	☐	125.000	134.798	1149965.63	0.2595	P	1.3
6	☐	250.000	265.411	2320077.54	0.5108	A	1.5
7	☐	500.000	516.341	4680320.33	0.9938	A	0.7
8	☐	1000.000	986.546	9412527.56	1.8988	A	2.2
9	☐			2061.36	0.0004	P	6.2

$$y = 0.0019 * x + 1.2342E-005$$

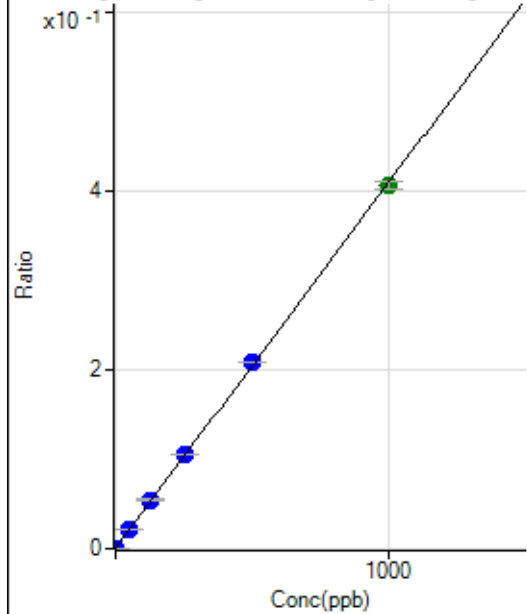
$$R = 0.9997$$

$$DL = 0.006322$$

$$BEC = 0.006413$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	884.53	0.0002	P	9.9
2	☐	0.100					
3	☐	1.000	0.882	2435.07	0.0006	P	4.0
4	☐	50.000	53.738	97164.20	0.0222	P	0.4
5	☐	125.000	133.383	243169.03	0.0549	P	1.4
6	☐	250.000	258.894	482752.88	0.1063	P	0.6
7	☐	500.000	510.191	985565.26	0.2093	P	0.3
8	☐	1000.000	991.446	2014950.96	0.4065	A	1.9
9	☐			1357.74	0.0003	P	10.6

$$y = 4.0976E-004 * x + 2.0662E-004$$

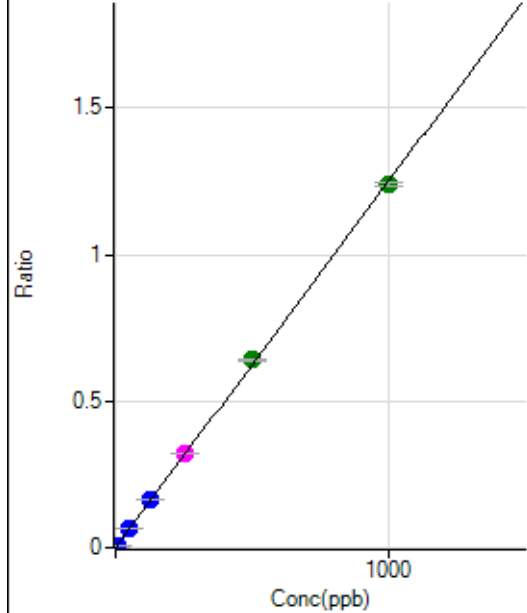
$$R = 0.9999$$

$$DL = 0.1503$$

$$BEC = 0.5042$$

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	936.21	0.0002	P	13.7
2	☐	0.500					
3	☐	5.000	4.486	24957.57	0.0058	P	4.2
4	☐	50.000	53.306	292149.20	0.0668	P	1.3
5	☐	125.000	131.380	728666.62	0.1644	P	1.0
6	☐	250.000	256.943	1459332.78	0.3213	M	0.5
7	☐	500.000	513.697	3024389.13	0.6422	A	1.1
8	☐	1000.000	990.455	6137241.15	1.2380	A	1.2
9	☐			6818.69	0.0014	P	4.4

$$y = 0.0012 * x + 2.1885E-004$$

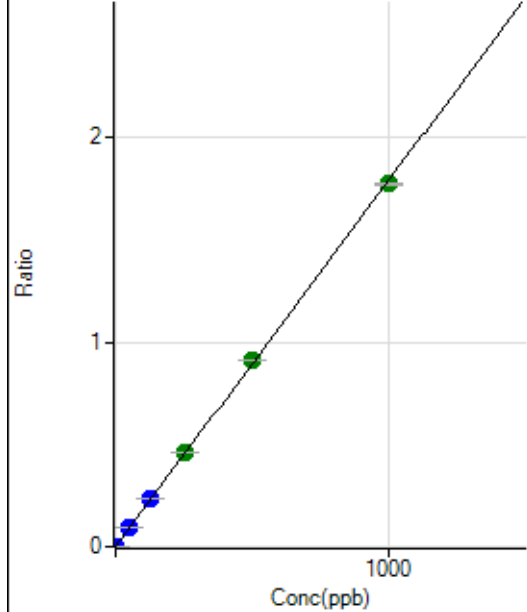
$$R = 0.9998$$

$$DL = 0.07221$$

$$BEC = 0.1751$$

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	13.89	0.0000	P	33.9
2	☐	0.200					
3	☐	2.000	1.857	14241.55	0.0033	P	1.5
4	☐	50.000	52.390	409520.23	0.0937	P	1.8
5	☐	125.000	131.541	1042582.11	0.2352	P	0.8
6	☐	250.000	258.328	2098026.54	0.4619	A	0.8
7	☐	500.000	511.042	4303960.52	0.9138	A	0.4
8	☐	1000.000	991.460	8789621.64	1.7729	A	0.7
9	☐			20116.02	0.0042	P	2.0

$$y = 0.0018 * x + 3.2389E-006$$

$$R = 0.9999$$

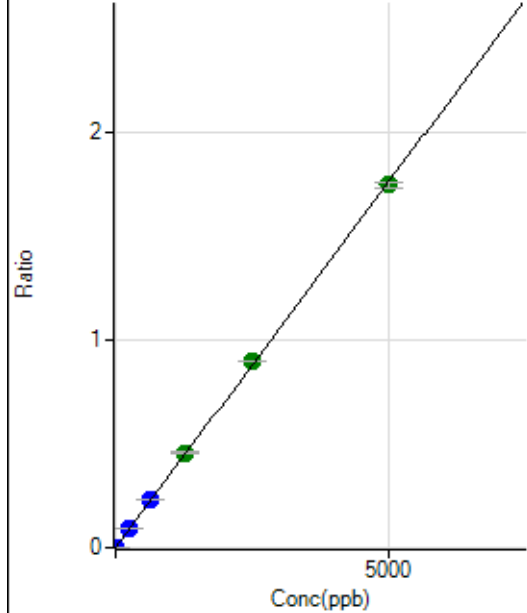
$$DL = 0.001841$$

$$BEC = 0.001811$$

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	77.78	0.0000	P	53.8
2	☐	1.000					
3	☐	10.000	9.081	13807.80	0.0032	P	2.4
4	☐	250.000	257.993	397990.73	0.0910	P	1.0
5	☐	625.000	649.234	1015386.24	0.2291	P	0.9
6	☐	1250.000	1290.852	2068503.04	0.4555	A	1.8
7	☐	2500.000	2547.806	4233763.68	0.8990	A	0.5
8	☐	5000.000	4962.457	8680257.05	1.7509	A	1.3
9	☐			4420.39	0.0009	P	8.2

$$y = 3.5283\text{E-}004 * x + 1.8204\text{E-}005$$

$$R = 0.9999$$

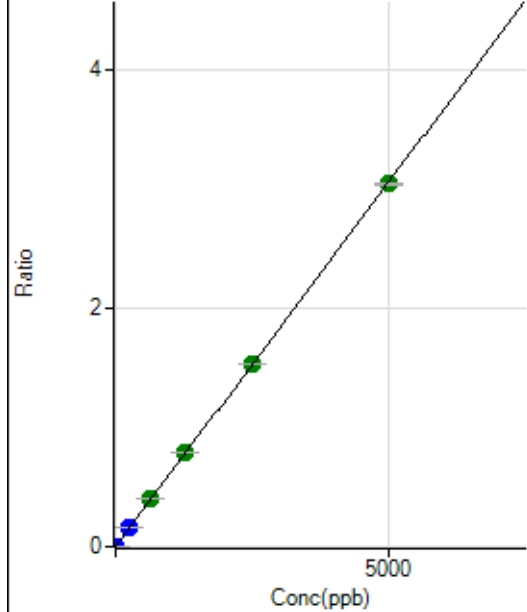
$$DL = 0.08334$$

$$BEC = 0.05159$$

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	94.45	0.0000	P	41.0
2	☐	1.000					
3	☐	10.000	9.049	23755.53	0.0055	P	0.6
4	☐	250.000	257.567	687152.53	0.1572	P	0.4
5	☐	625.000	660.330	1785951.10	0.4030	A	2.2
6	☐	1250.000	1293.948	3586099.34	0.7896	A	0.3
7	☐	2500.000	2508.731	7209700.25	1.5309	A	0.6
8	☐	5000.000	4979.855	15065716.48	3.0387	A	0.5
9	☐			7185.65	0.0015	P	4.7

$$y = 6.1020\text{E-}004 * x + 2.2103\text{E-}005$$

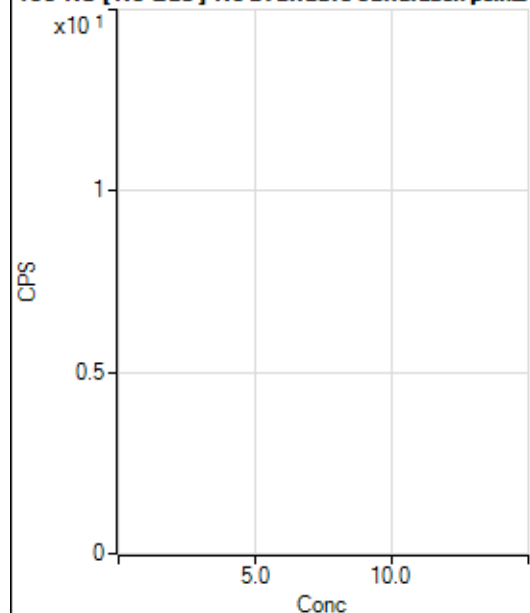
$$R = 0.9999$$

$$DL = 0.04459$$

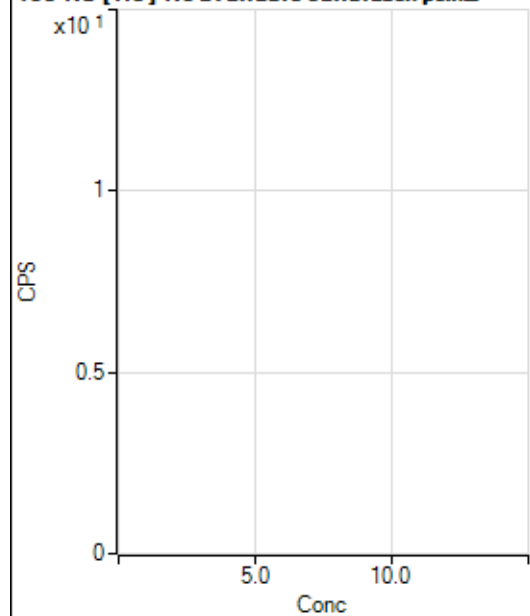
$$BEC = 0.03622$$

Weight: <None>

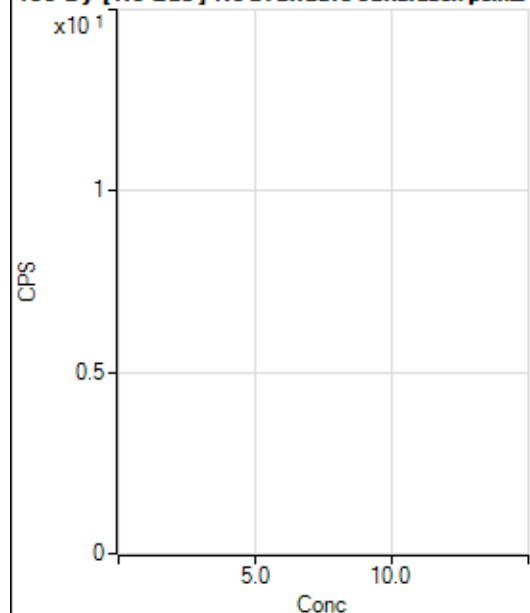
Min Conc: 0

150 Nd [No Gas] No available calibration points

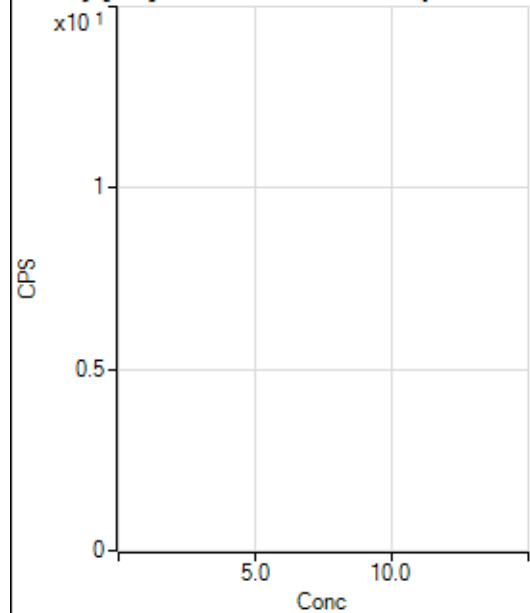
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			8.89		P	43.3
2	☐						
3	☐			17.78		P	57.3
4	☐			26.67		P	25.0
5	☐			31.11		P	99.0
6	☐			93.34		P	25.8
7	☐			168.90		P	9.1
8	☐			337.79		P	6.3
9	☐			126.67		P	10.5

150 Nd [He] No available calibration points

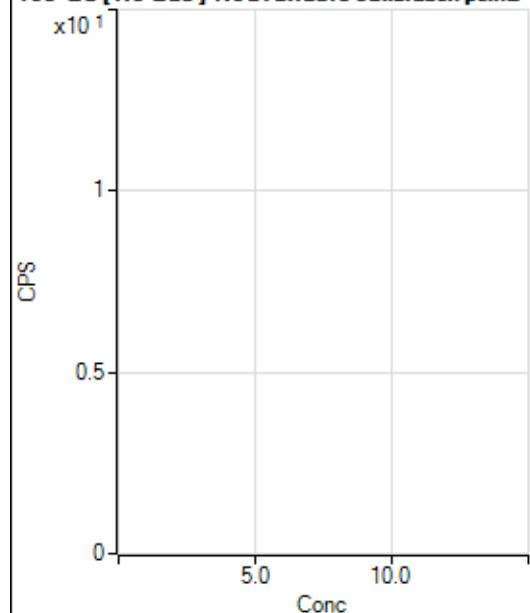
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			0.00		P	
2	☐						
3	☐			0.00		P	
4	☐			3.33		P	100.
5	☐			0.00		P	
6	☐			3.33		P	100.
7	☐			3.33		P	100.
8	☐			13.33		P	43.3
9	☐			15.55		P	24.8

156 Dy [No Gas] No available calibration points

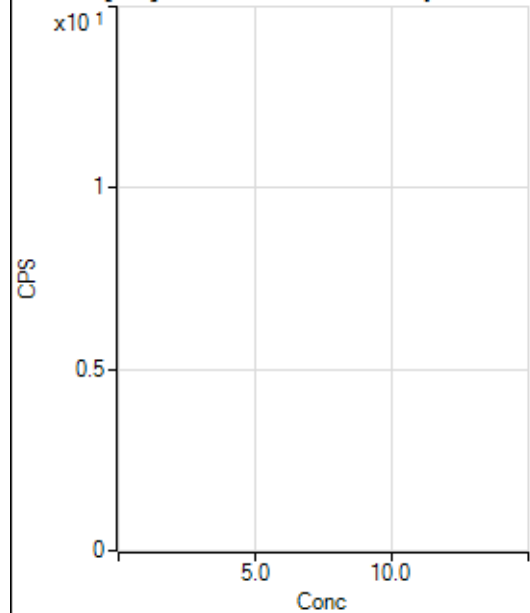
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			19.44		P	49.5
2	☐						
3	☐			27.78		P	75.5
4	☐			22.22		P	21.6
5	☐			36.11		P	48.0
6	☐			47.22		P	36.7
7	☐			66.67		P	33.1
8	☐			119.45		P	22.4
9	☐			141.68		P	25.6

156 Dy [He] No available calibration points

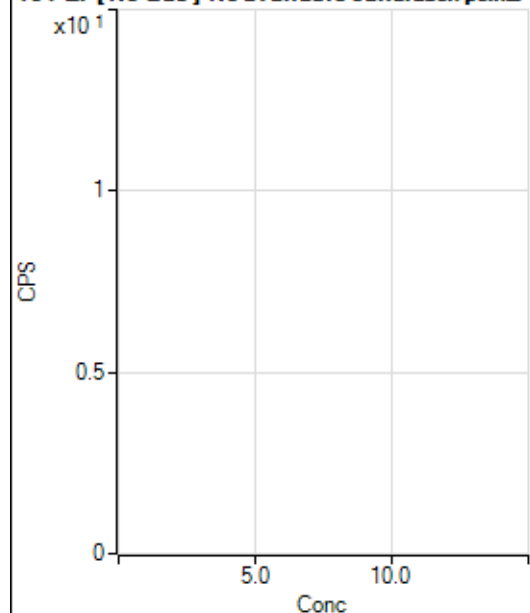
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1.11		P	173.
2	☐						
3	☐			2.22		P	86.6
4	☐			1.11		P	173.
5	☐			2.22		P	86.6
6	☐			6.67		P	50.0
7	☐			10.00		P	88.2
8	☐			12.22		P	15.7
9	☐			28.89		P	43.7

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

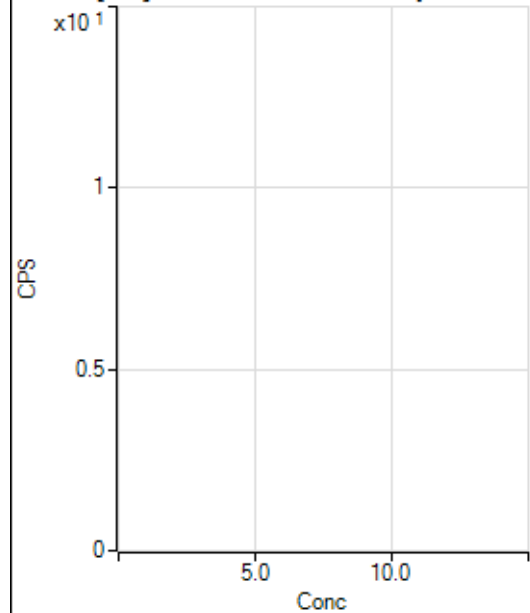
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			47.22		P	73.5
2	☐						
3	☐			33.33		P	25.0
4	☐			47.23		P	40.8
5	☐			50.00		P	33.3
6	☐			72.22		P	63.6
7	☐			63.89		P	15.1
8	☐			80.56		P	23.9
9	☐			136.12		P	12.7

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			7.78		P	65.5
2	☐						
3	☐			12.22		P	31.5
4	☐			11.11		P	69.3
5	☐			15.55		P	44.6
6	☐			15.56		P	32.7
7	☐			14.44		P	58.1
8	☐			12.22		P	103.
9	☐			37.78		P	13.5

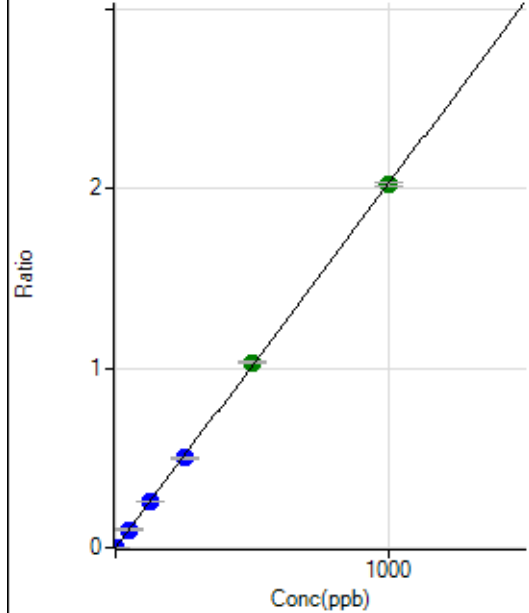
164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			25.00		P	33.3
2	☐						
3	☐			16.67		P	86.6
4	☐			13.89		P	69.3
5	☐			27.78		P	17.3
6	☐			25.00		P	66.7
7	☐			27.78		P	62.5
8	☐			38.89		P	44.6
9	☐			66.67		P	21.6

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1.11		P	173.
2	☐						
3	☐			8.89		P	57.3
4	☐			7.78		P	49.5
5	☐			5.56		P	34.7
6	☐			6.66		P	86.6
7	☐			10.00		P	88.2
8	☐			13.33		P	66.1
9	☐			16.66		P	91.7

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	58.33	0.0000	P	37.2
2	☐	0.100					
3	☐	1.000	0.895	4100.86	0.0018	P	1.7
4	☐	50.000	50.172	228047.04	0.1016	P	1.7
5	☐	125.000	126.059	590972.66	0.2552	P	0.7
6	☐	250.000	246.393	1189022.07	0.4988	P	1.4
7	☐	500.000	508.014	2502239.97	1.0285	A	1.2
8	☐	1000.000	996.754	5195267.21	2.0179	A	1.2
9	☐			2794.89	0.0012	P	1.7

$$y = 0.0020 * x + 2.5788E-005$$

$$R = 0.9999$$

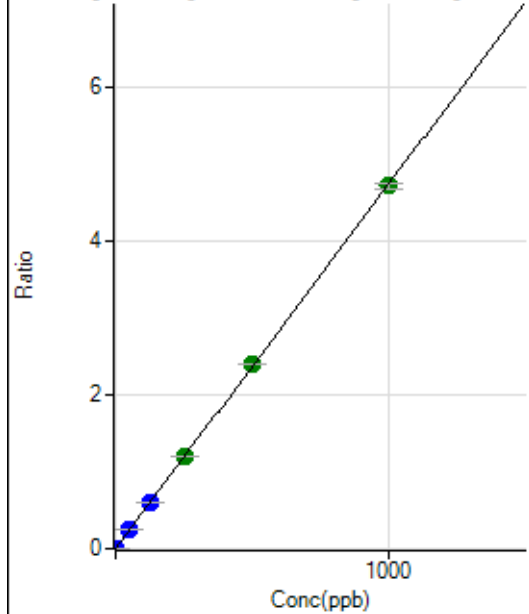
$$DL = 0.01422$$

$$BEC = 0.01274$$

Weight: <None>

Min Conc: 0

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	125.01	0.0001	P	14.2
2	☐	0.100					
3	☐	1.000	0.946	10107.31	0.0045	P	6.4
4	☐	50.000	50.938	540804.09	0.2409	P	0.9
5	☐	125.000	126.822	1388766.94	0.5998	P	0.4
6	☐	250.000	252.880	2850506.16	1.1959	A	1.2
7	☐	500.000	506.346	5825647.57	2.3944	A	0.8
8	☐	1000.000	995.832	12123757.48	4.7091	A	1.6
9	☐			6546.48	0.0027	P	4.9

$$y = 0.0047 * x + 5.5412E-005$$

$$R = 1.0000$$

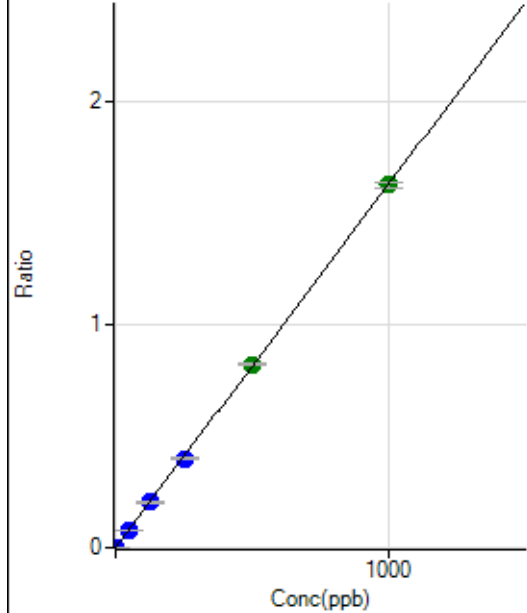
$$DL = 0.004978$$

$$BEC = 0.01172$$

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	337.05	0.0001	P	14.7
2	☐	0.100					
3	☐	1.000	0.987	3921.11	0.0018	P	6.4
4	☐	50.000	49.958	183065.92	0.0816	P	0.4
5	☐	125.000	124.506	470085.73	0.2030	P	0.8
6	☐	250.000	244.533	950094.09	0.3986	P	1.6
7	☐	500.000	505.458	2004184.07	0.8238	A	0.9
8	☐	1000.000	998.702	4190266.79	1.6275	A	1.6
9	☐			10135.83	0.0042	P	4.9

$$y = 0.0016 * x + 1.4925E-004$$

$$R = 1.0000$$

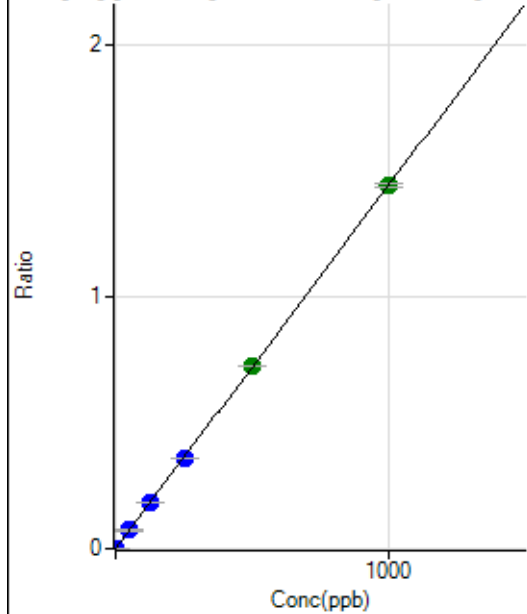
$$DL = 0.04028$$

$$BEC = 0.0916$$

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	244.45	0.0001	P	31.4
2	☐	0.100					
3	☐	1.000	1.005	3476.50	0.0016	P	1.5
4	☐	50.000	50.320	163193.33	0.0727	P	0.9
5	☐	125.000	125.712	420178.40	0.1815	P	0.6
6	☐	250.000	248.675	855386.53	0.3589	P	1.1
7	☐	500.000	503.262	1766688.45	0.7261	A	0.5
8	☐	1000.000	998.596	3709333.88	1.4407	A	1.2
9	☐			8738.43	0.0036	P	0.8

$$y = 0.0014 * x + 1.0814E-004$$

$$R = 1.0000$$

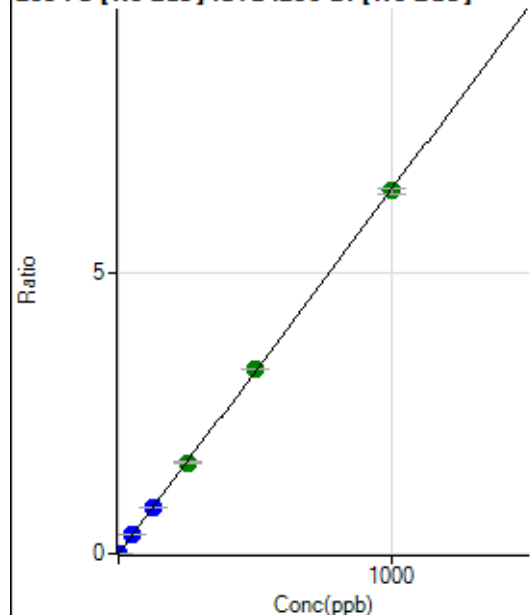
$$DL = 0.07062$$

$$BEC = 0.07496$$

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	1170.43	0.0005	P	5.4
2	☐	0.100					
3	☐	1.000	1.004	15726.52	0.0070	P	2.7
4	☐	50.000	50.345	735735.96	0.3278	P	0.6
5	☐	125.000	125.693	1892973.84	0.8175	P	0.6
6	☐	250.000	250.737	3886126.14	1.6303	A	1.2
7	☐	500.000	506.868	8017178.87	3.2952	A	1.0
8	☐	1000.000	996.278	16674146.00	6.4764	A	1.4
9	☐			40023.91	0.0166	P	2.2

$$y = 0.0065 * x + 5.1825E-004$$

$$R = 1.0000$$

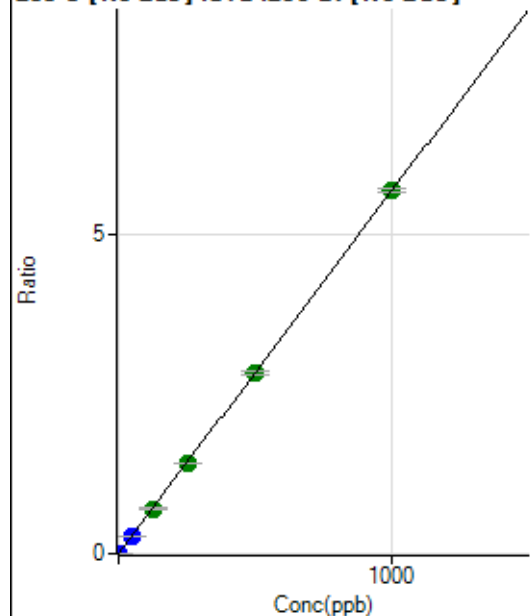
$$DL = 0.01284$$

$$BEC = 0.07973$$

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	266.68	0.0001	P	25.1
2	☐	0.100					
3	☐	1.000	0.840	10885.76	0.0049	P	4.3
4	☐	50.000	49.422	628970.88	0.2802	P	0.9
5	☐	125.000	124.083	1628713.76	0.7033	A	1.5
6	☐	250.000	249.113	3365713.44	1.4119	A	0.4
7	☐	500.000	498.976	6880418.73	2.8280	A	1.8
8	☐	1000.000	1000.878	14605289.91	5.6724	A	1.1
9	☐			3400.65	0.0014	P	7.8

$$y = 0.0057 * x + 1.1825E-004$$

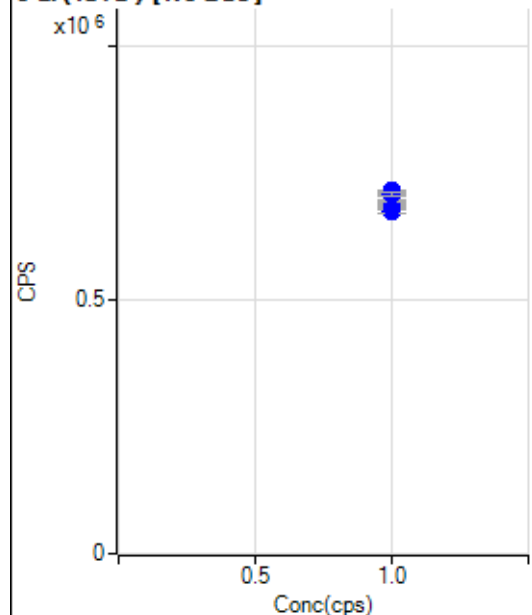
$$R = 1.0000$$

$$DL = 0.01574$$

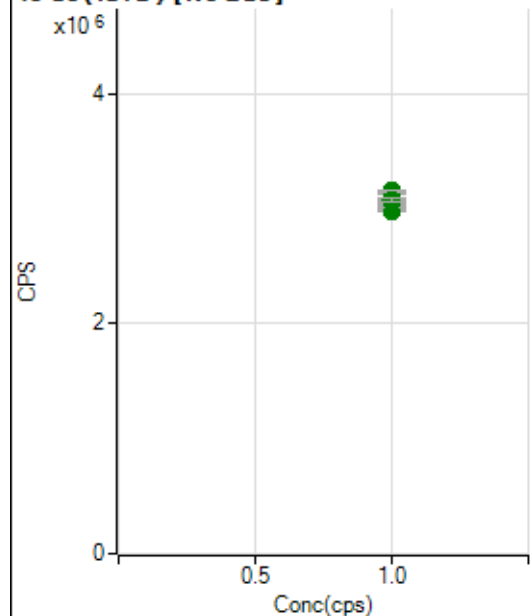
$$BEC = 0.02087$$

Weight: <None>

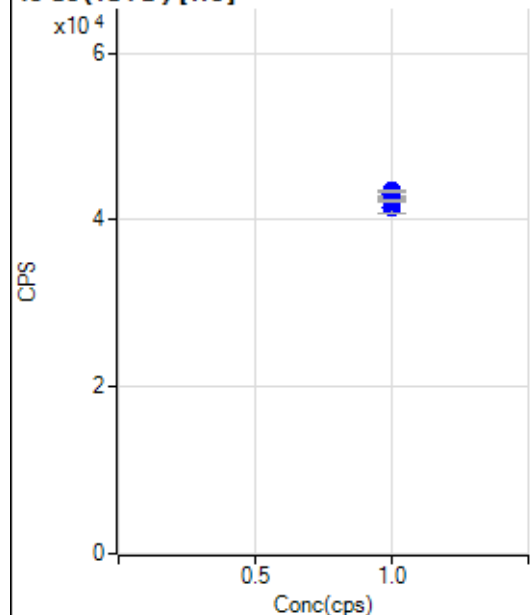
Min Conc: 0

6 Li (ISTD) [No Gas]

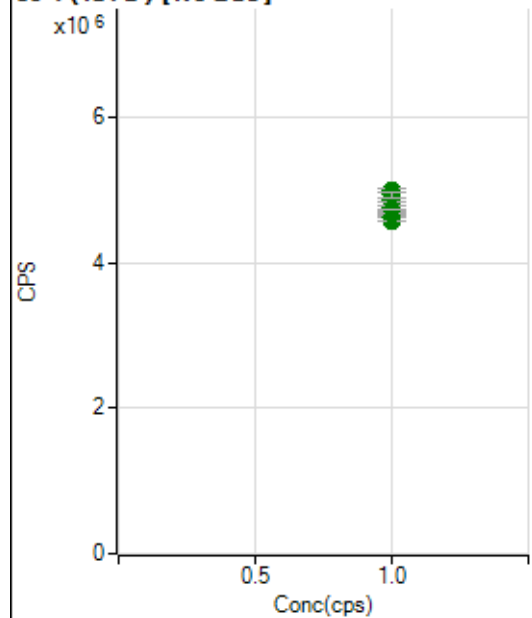
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		679709.88		P	0.6
2	☐	1.000					
3	☐	1.000		673885.20		P	1.1
4	☐	1.000		683960.92		P	0.4
5	☐	1.000		687803.69		P	0.4
6	☐	1.000		695749.62		P	0.3
7	☐	1.000		709939.36		P	0.4
8	☐	1.000		715789.39		P	0.3
9	☐	1.000		709216.42		P	1.0

45 Sc (ISTD) [No Gas]

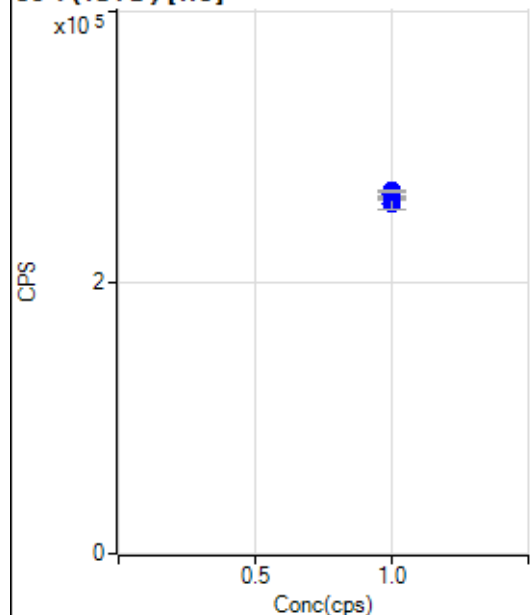
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2999939.82		A	0.4
2	☐	1.000					
3	☐	1.000		2978119.58		A	0.7
4	☐	1.000		3008808.12		A	0.5
5	☐	1.000		3050049.07		A	1.1
6	☐	1.000		3068645.25		A	0.6
7	☐	1.000		3125245.93		A	0.4
8	☐	1.000		3151636.72		A	0.4
9	☐	1.000		3072511.79		A	0.8

45 Sc (ISTD) [He]

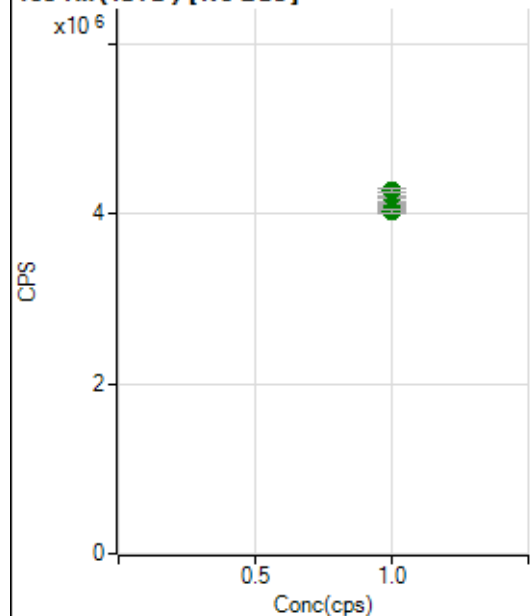
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		42683.80		P	1.4
2	☐	1.000					
3	☐	1.000		42577.76		P	0.4
4	☐	1.000		43485.05		P	0.8
5	☐	1.000		43111.66		P	1.2
6	☐	1.000		42874.27		P	0.2
7	☐	1.000		43427.08		P	0.8
8	☐	1.000		41498.02		P	3.1
9	☐	1.000		42225.76		P	0.4

89 Y (ISTD) [No Gas]

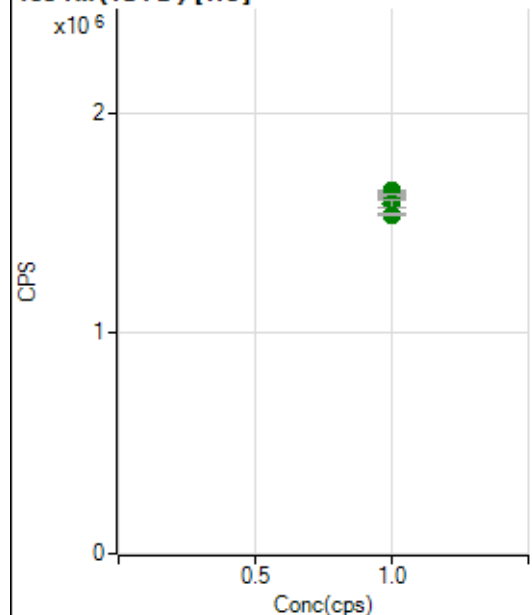
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4632089.17		A	0.2
2	☐	1.000					
3	☐	1.000		4571676.60		A	0.2
4	☐	1.000		4625062.99		A	1.6
5	☐	1.000		4689317.12		A	0.9
6	☐	1.000		4756466.18		A	1.3
7	☐	1.000		4859615.34		A	0.9
8	☐	1.000		4988366.35		A	1.0
9	☐	1.000		4935514.30		A	1.6

89 Y(ISTD) [He]

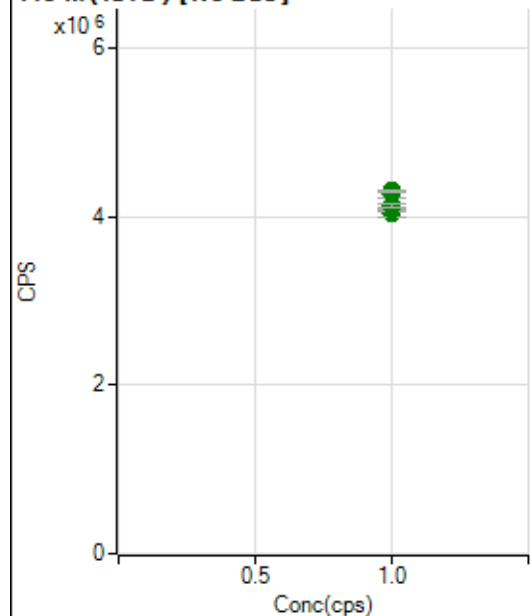
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		262176.80		P	0.3
2	☐	1.000					
3	☐	1.000		261550.92		P	0.8
4	☐	1.000		265413.37		P	0.8
5	☐	1.000		267005.40		P	0.4
6	☐	1.000		267230.94		P	0.1
7	☐	1.000		267810.94		P	0.4
8	☐	1.000		258890.57		P	3.5
9	☐	1.000		267423.30		P	0.2

103 Rh(ISTD) [No Gas]

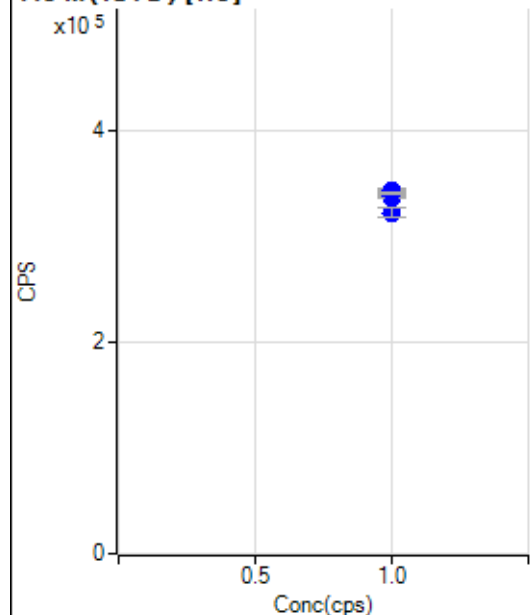
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4081169.32		A	0.6
2	☐	1.000					
3	☐	1.000		4018469.80		A	0.5
4	☐	1.000		4042709.55		A	0.3
5	☐	1.000		4130408.56		A	0.8
6	☐	1.000		4130466.98		A	0.3
7	☐	1.000		4200582.17		A	0.3
8	☐	1.000		4269366.11		A	1.0
9	☐	1.000		4029342.84		A	0.7

103 Rh (ISTD) [He]

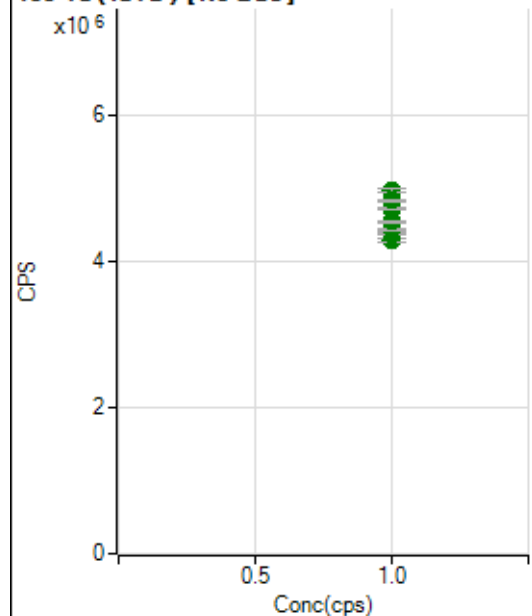
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1640676.09		A	0.8
2	☐	1.000					
3	☐	1.000		1621269.99		A	1.0
4	☐	1.000		1630848.99		A	0.4
5	☐	1.000		1637798.59		A	0.2
6	☐	1.000		1647127.70		A	0.5
7	☐	1.000		1628838.73		A	0.6
8	☐	1.000		1590194.05		A	1.9
9	☐	1.000		1539892.20		A	0.7

115 In (ISTD) [No Gas]

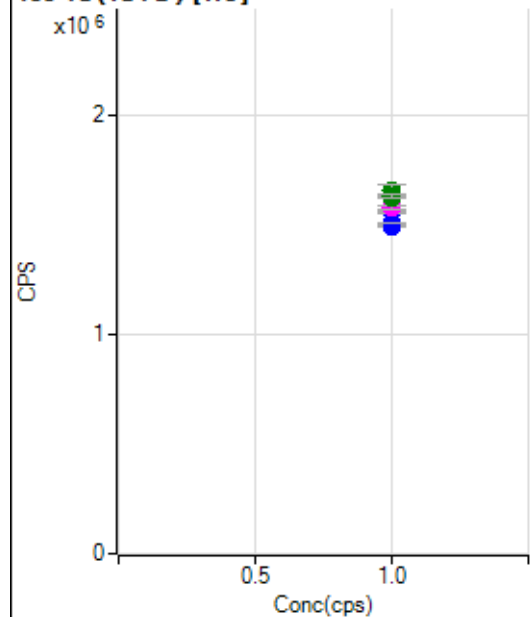
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4032466.55		A	1.5
2	☐	1.000					
3	☐	1.000		4078303.22		A	1.0
4	☐	1.000		4126515.51		A	1.0
5	☐	1.000		4141215.62		A	1.0
6	☐	1.000		4141883.91		A	1.1
7	☐	1.000		4265082.79		A	1.7
8	☐	1.000		4309813.25		A	0.6
9	☐	1.000		4305051.75		A	0.4

115 In (ISTD) [He]

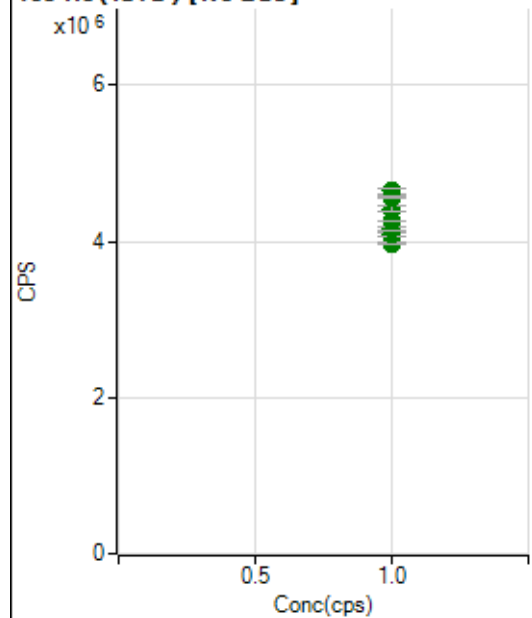
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		342222.00		P	0.4
2	☐	1.000					
3	☐	1.000		337209.59		P	0.4
4	☐	1.000		338507.73		P	0.3
5	☐	1.000		343097.98		P	1.0
6	☐	1.000		339930.67		P	0.1
7	☐	1.000		338184.84		P	0.8
8	☐	1.000		322422.12		P	2.8
9	☐	1.000		341569.23		P	0.7

159 Tb (ISTD) [No Gas]

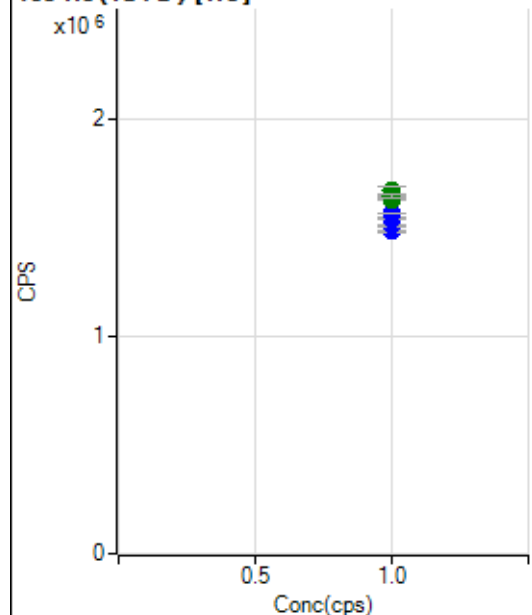
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4277881.53		A	1.1
2	☐	1.000					
3	☐	1.000		4284891.39		A	0.8
4	☐	1.000		4371540.21		A	0.7
5	☐	1.000		4432444.66		A	0.5
6	☐	1.000		4541750.21		A	0.5
7	☐	1.000		4709748.54		A	0.8
8	☐	1.000		4958059.93		A	1.2
9	☐	1.000		4827199.89		A	0.5

159 Tb (ISTD) [He]

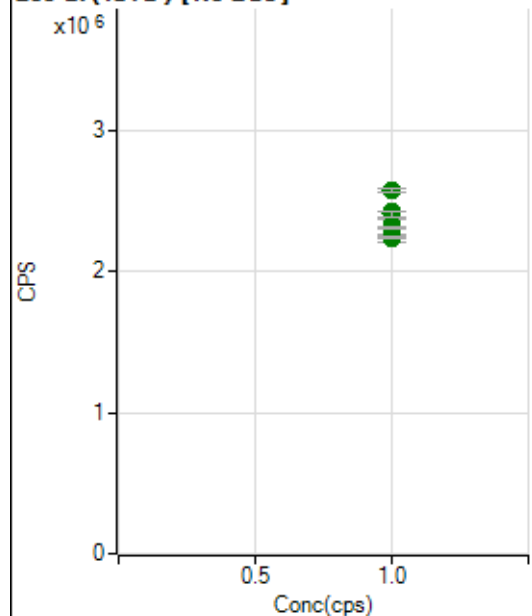
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1502747.57		P	0.3
2	☐	1.000					
3	☐	1.000		1492514.63		P	0.2
4	☐	1.000		1508468.48		P	0.2
5	☐	1.000		1557303.93		P	0.4
6	☐	1.000		1574745.55		M	1.1
7	☐	1.000		1625275.15		A	0.5
8	☐	1.000		1654392.68		A	3.1
9	☐	1.000		1631015.12		A	0.6

165 Ho (ISTD) [No Gas]

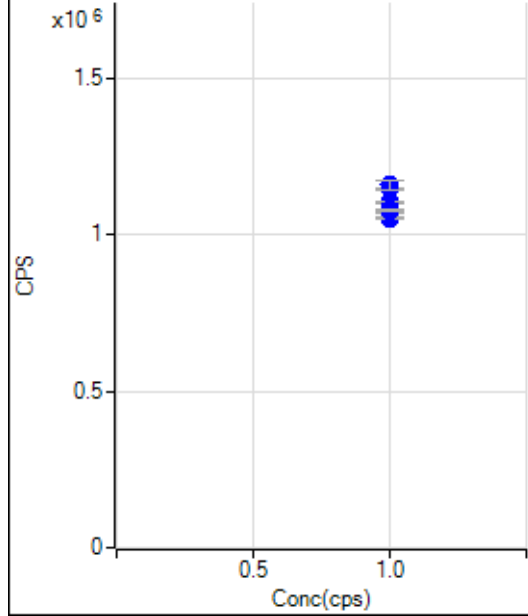
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4057955.17		A	0.3
2	☐	1.000					
3	☐	1.000		3970055.86		A	0.6
4	☐	1.000		4091322.49		A	0.9
5	☐	1.000		4164871.97		A	1.0
6	☐	1.000		4264478.87		A	0.2
7	☐	1.000		4418375.44		A	1.3
8	☐	1.000		4645603.66		A	1.4
9	☐	1.000		4562398.45		A	0.8

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1508552.44		P	0.6
2	☐	1.000					
3	☐	1.000		1484164.16		P	0.3
4	☐	1.000		1512653.47		P	0.8
5	☐	1.000		1544803.19		P	0.7
6	☐	1.000		1569987.37		P	0.3
7	☐	1.000		1634090.27		A	0.7
8	☐	1.000		1671240.38		A	2.9
9	☐	1.000		1644241.80		A	1.0

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2257751.53		A	0.9
2	☐	1.000					
3	☐	1.000		2232302.80		A	1.6
4	☐	1.000		2244741.88		A	0.7
5	☐	1.000		2315530.83		A	0.7
6	☐	1.000		2383763.68		A	0.6
7	☐	1.000		2433026.33		A	0.2
8	☐	1.000		2574812.41		A	1.0
9	☐	1.000		2413849.65		A	1.7

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1079854.52		P	0.9
2	☐	1.000					
3	☐	1.000		1054680.36		P	0.6
4	☐	1.000		1078810.09		P	1.0
5	☐	1.000		1102245.53		P	0.4
6	☐	1.000		1107857.04		P	0.4
7	☐	1.000		1148943.99		P	0.8
8	☐	1.000		1160812.51		P	3.0
9	☐	1.000		1079977.13		P	0.3