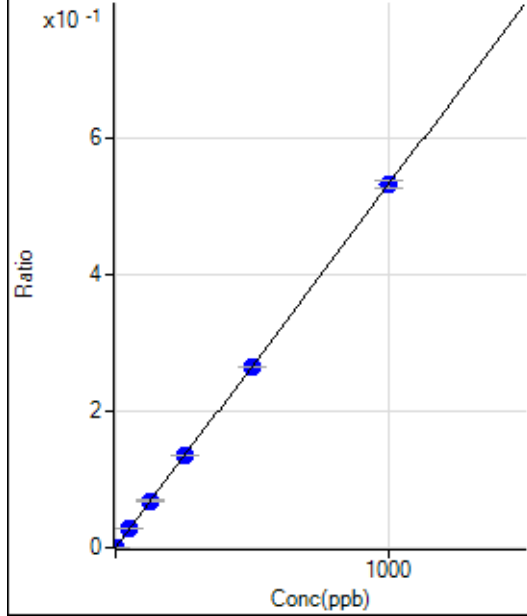


Batch Folder: C:\Agilent\ICPMH\1\DATA\P7080121-EPA.b\
Analysis File: P7080121-EPA.batch.bin
DA Date-Time: 2021-08-02 00:10:06
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	003CALB.d	S00	2021-08-01 18:05:25
2	005CALS.d	S02	2021-08-01 18:11:33
3	006CALS.d	S03	2021-08-01 18:14:37
4	007CALS.d	S04	2021-08-01 18:17:40
5	008CALS.d	S05	2021-08-01 18:20:42
6	009CALS.d	S06	2021-08-01 18:23:41
7	010CALS.d	S07	2021-08-01 18:26:35
8	012CALS.d	S08	2021-08-01 18:32:34

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	59.26	0.0000	P	46.3
2	☐	1.000	1.105	1683.45	0.0006	P	4.8
3	☐	50.000	52.278	76837.37	0.0278	P	1.6
4	☐	125.000	128.100	181976.20	0.0681	P	3.0
5	☐	250.000	253.695	354703.74	0.1349	P	0.4
6	☐	500.000	498.362	659024.81	0.2649	P	0.5
7	☐	1000.000	999.394	1239988.57	0.5313	P	2.1
8	☐			190.75	0.0001	P	9.0

$$y = 5.3158\text{E-}004 * x + 2.1793\text{E-}005$$

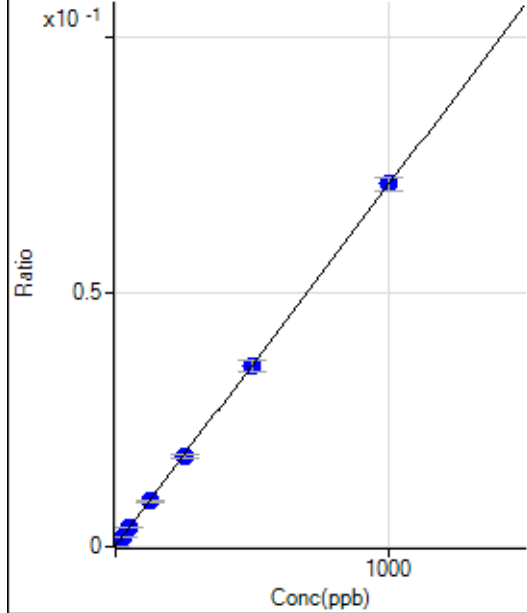
$$R = 1.0000$$

$$DL = 0.05694$$

$$BEC = 0.041$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	436.13	0.0002	P	14.0
2	☐	25.000	25.137	5370.55	0.0019	P	7.4
3	☐	50.000	51.663	10570.62	0.0038	P	4.9
4	☐	125.000	124.010	23983.50	0.0090	P	4.5
5	☐	250.000	248.232	46730.82	0.0178	P	3.5
6	☐	500.000	496.550	87980.30	0.0354	P	6.1
7	☐	1000.000	1002.204	166242.20	0.0713	P	4.0
8	☐			3547.73	0.0015	P	13.1

$$y = 7.0941\text{E-}005 * x + 1.6090\text{E-}004$$

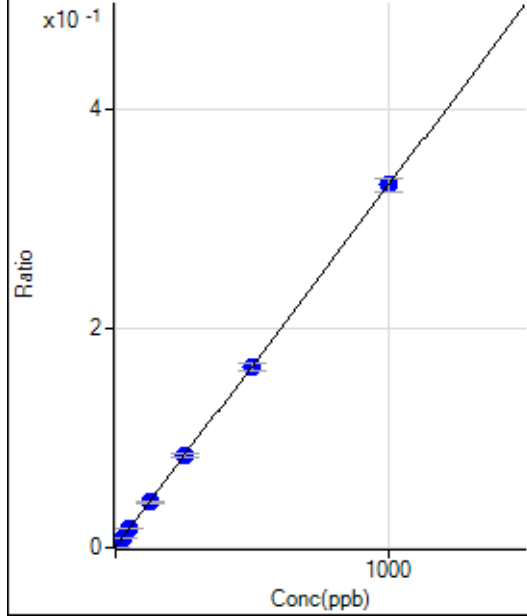
$$R = 1.0000$$

$$DL = 0.9556$$

$$BEC = 2.268$$

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	1700.14	0.0006	P	7.6
2	☐	25.000	25.731	25190.79	0.0091	P	2.8
3	☐	50.000	51.025	48249.63	0.0175	P	2.0
4	☐	125.000	123.682	110942.80	0.0414	P	3.5
5	☐	250.000	251.422	219808.75	0.0836	P	4.3
6	☐	500.000	497.887	410084.98	0.1649	P	4.6
7	☐	1000.000	1000.796	771973.26	0.3309	P	3.5
8	☐			15950.40	0.0066	P	2.5

$$y = 3.2997\text{E-}004 * x + 6.2738\text{E-}004$$

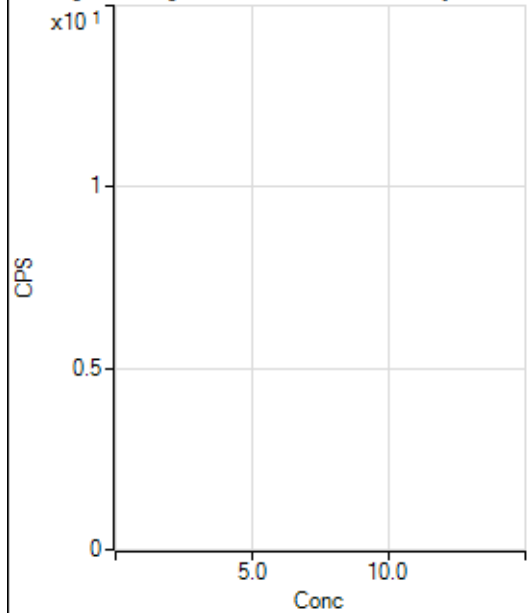
$$R = 1.0000$$

$$DL = 0.4317$$

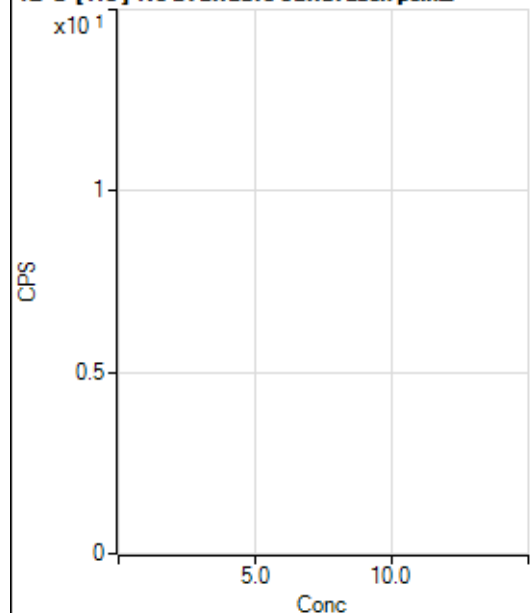
$$BEC = 1.901$$

Weight: <None>

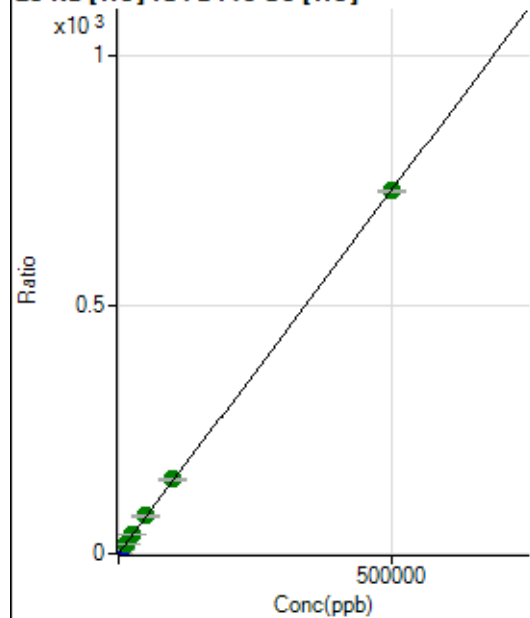
Min Conc: 0

12 C [No Gas] No available calibration points

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

12 C [He] No available calibration points

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

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	9597.70	0.0303	P	0.8
2	☐	500.000	535.181	258663.63	0.8111	P	1.1
3	☐	5000.000	5159.230	2339711.62	7.5568	P	0.8
4	☐	12500.000	12996.382	5685905.20	18.9900	A	0.8
5	☐	25000.000	26104.694	10839162.83	38.1129	A	0.9
6	☐	50000.000	51683.601	20251932.40	75.4285	A	0.6
7	☐	100000.00	101938.58	41088131.48	148.7425	A	1.0
8	☐	500000.00	499374.65	215991874.2	728.5386	A	0.6

$$y = 0.0015 * x + 0.0303$$

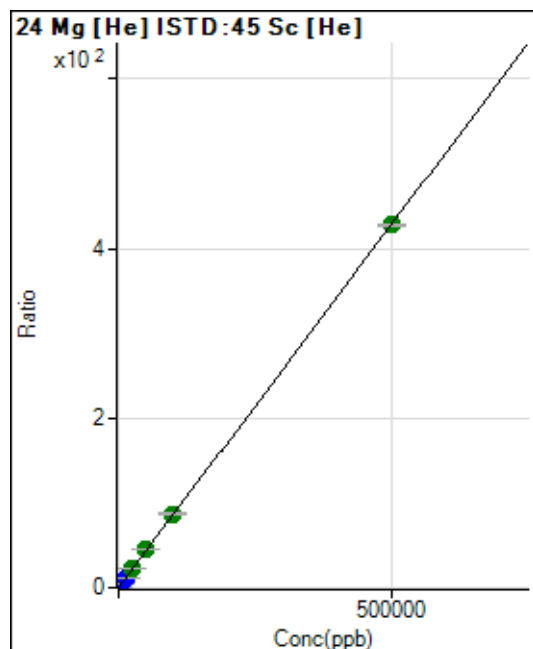
$$R = 1.0000$$

$$DL = 0.5192$$

$$BEC = 20.79$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	497.24	0.0016	P	17.6
2	☐	500.000	519.318	142379.71	0.4464	P	0.7
3	☐	5000.000	5159.735	1368996.94	4.4216	P	0.5
4	☐	12500.000	12703.997	3258831.93	10.8842	P	0.8
5	☐	25000.000	26225.844	6389688.12	22.4674	A	0.4
6	☐	50000.000	52278.571	12024314.94	44.7850	A	0.9
7	☐	100000.00	101538.10	24026390.12	86.9822	A	1.7
8	☐	500000.00	499396.51	126829851.4	427.7998	A	0.6

$$y = 8.5663\text{E-}004 * x + 0.0016$$

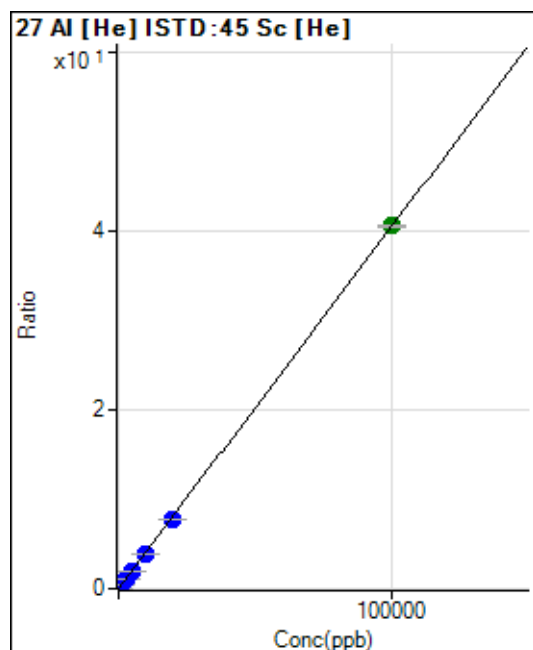
$$R = 1.0000$$

$$DL = 0.9687$$

$$BEC = 1.834$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	494.46	0.0016	P	2.3
2	☐	20.000	20.153	3097.62	0.0097	P	5.5
3	☐	1000.000	996.780	125222.64	0.4045	P	0.8
4	☐	2500.000	2452.169	297229.23	0.9927	P	1.0
5	☐	5000.000	4894.169	563038.88	1.9797	P	0.2
6	☐	10000.000	9740.236	1057446.95	3.9385	P	0.7
7	☐	20000.000	19056.699	2128342.17	7.7041	P	0.6
8	☐	100000.00	100221.15	12009973.45	40.5100	A	0.8

$$y = 4.0419\text{E-}004 * x + 0.0016$$

$$R = 1.0000$$

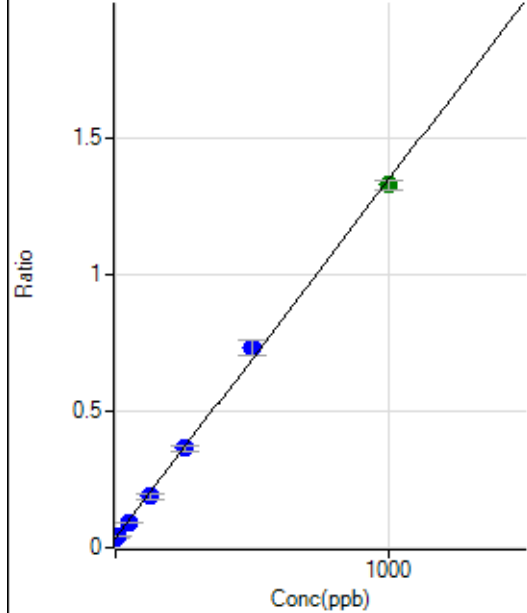
$$DL = 0.2722$$

$$BEC = 3.867$$

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	157576.30	0.0357	P	0.5
2	☐	10.000	5.800	194008.22	0.0434	P	0.9
3	☐	50.000	43.435	410046.29	0.0928	P	3.3
4	☐	125.000	115.236	801408.73	0.1872	P	7.9
5	☐	250.000	250.864	1499658.54	0.3654	P	6.2
6	☐	500.000	531.350	2819220.53	0.7339	P	7.0
7	☐	1000.000	985.700	4986537.44	1.3308	A	2.8
8	☐			384496.53	0.0949	P	11.8

$$y = 0.0013 * x + 0.0357$$

$$R = 0.9992$$

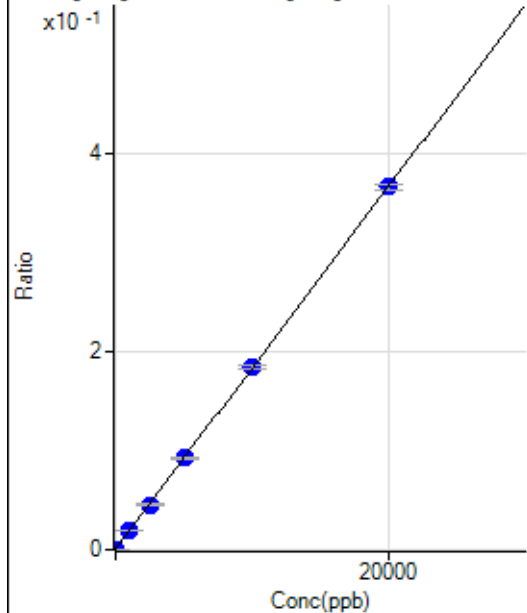
$$DL = 0.3816$$

$$BEC = 27.21$$

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	1.516	147.23	0.0005	P	9.0
2	☐	0.000	-1.516	130.56	0.0004	P	15.7
3	☐	1000.000	1024.153	5956.87	0.0192	P	2.2
4	☐	2500.000	2426.882	13470.20	0.0450	P	3.3
5	☐	5000.000	5013.356	26301.37	0.0925	P	2.3
6	☐	10000.000	10056.605	49691.45	0.1851	P	1.8
7	☐	20000.000	19976.291	101466.11	0.3672	P	1.5
8	☐			188.90	0.0006	P	10.5

$$y = 1.8360E-005 * x + 4.3763E-004$$

$$R = 1.0000$$

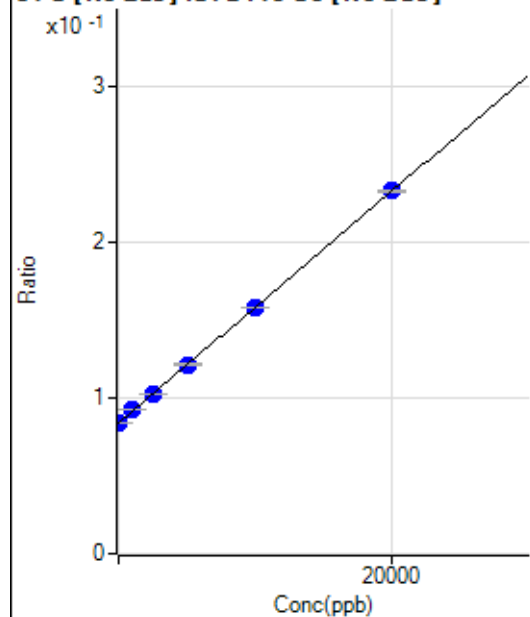
$$DL = 8.676$$

$$BEC = 23.84$$

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	30.986	371554.30	0.0843	P	0.6
2	☐	0.000	-30.986	374993.56	0.0838	P	0.5
3	☐	1000.000	1100.326	407641.62	0.0923	P	0.3
4	☐	2500.000	2478.056	439435.63	0.1025	P	0.8
5	☐	5000.000	5050.965	499658.81	0.1217	P	0.2
6	☐	10000.000	9931.249	607592.45	0.1581	P	0.3
7	☐	20000.000	20019.361	874063.52	0.2333	P	0.8
8	☐			346670.47	0.0856	P	0.5

$$y = 7.4548\text{E-}006 * x + 0.0841$$

$$R = 1.0000$$

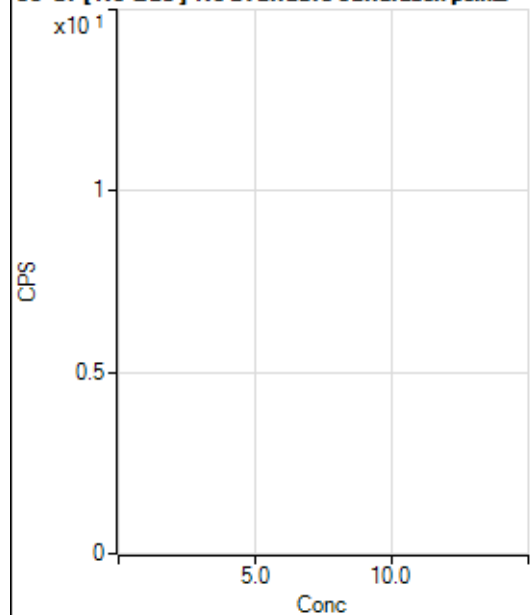
$$DL = 176.7$$

$$BEC = 1.128\text{E}+04$$

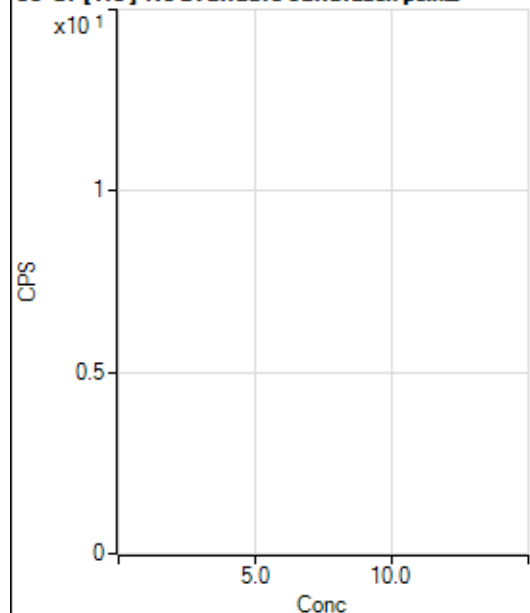
Weight: <None>

Min Conc: 0

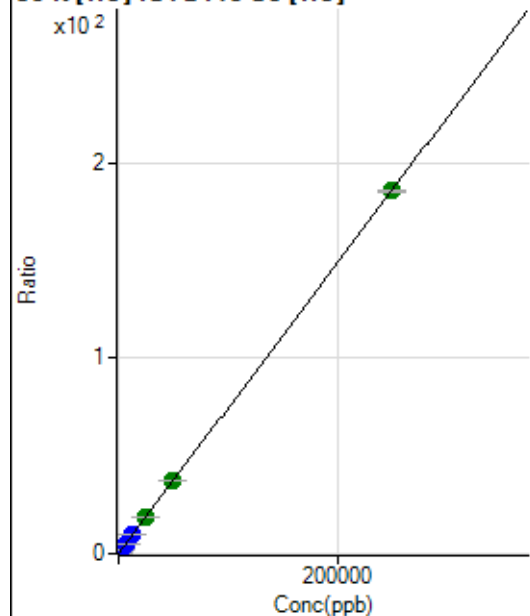
35 Cl [No Gas] No available calibration points



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

35 Cl [He] No available calibration points

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

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	31353.02	0.0991	P	0.4
2	☐	500.000	538.810	159041.11	0.4987	P	1.3
3	☐	2500.000	2640.055	636891.21	2.0570	P	0.3
4	☐	6250.000	6459.463	1463992.44	4.8896	P	0.7
5	☐	12500.000	12951.837	2759912.08	9.7045	P	0.6
6	☐	25000.000	24914.614	4987774.90	18.5763	A	0.9
7	☐	50000.000	49759.312	10222872.01	37.0017	A	0.5
8	☐	250000.00	250027.37	55002611.65	185.5251	A	0.6

$$y = 7.4162E-004 * x + 0.0991$$

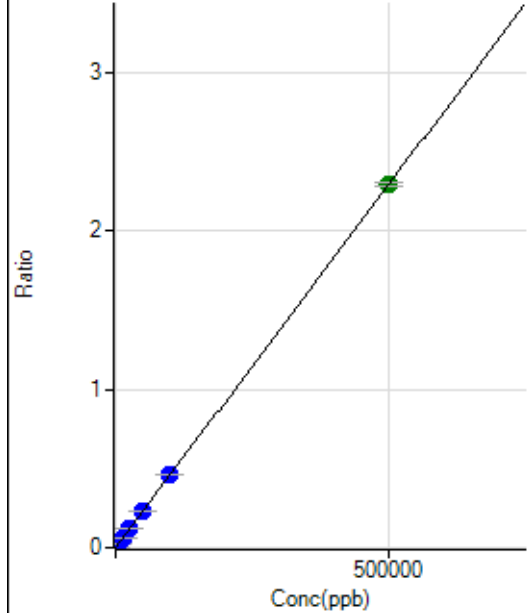
$$R = 1.0000$$

$$DL = 1.626$$

$$BEC = 133.6$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	119.45	0.0000	P	20.2
2	☐	500.000	525.630	10904.22	0.0024	P	3.5
3	☐	5000.000	5143.317	104307.01	0.0236	P	2.3
4	☐	12500.000	12645.805	248561.41	0.0580	P	1.6
5	☐	25000.000	25320.966	476716.66	0.1161	P	0.3
6	☐	50000.000	50359.546	887502.85	0.2309	P	0.7
7	☐	100000.00	99973.648	1717458.26	0.4584	P	0.7
8	☐	500000.00	499948.16	9284715.83	2.2923	A	1.2

$$y = 4.5850\text{E-}006 * x + 2.7103\text{E-}005$$

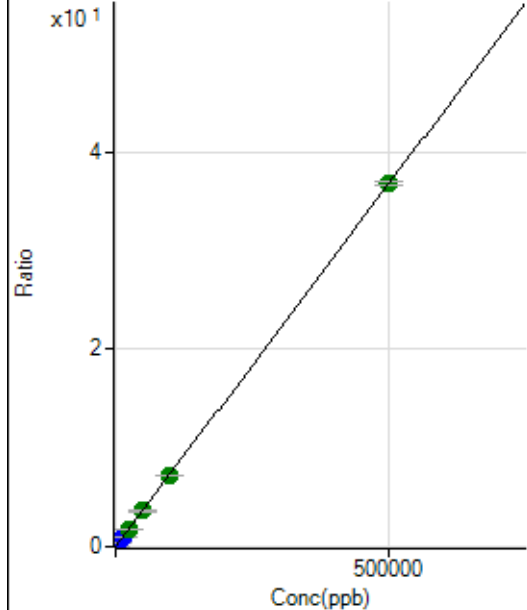
$$R = 1.0000$$

$$DL = 3.589$$

$$BEC = 5.911$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	4486.92	0.0010	P	4.4
2	☐	500.000	523.101	176608.22	0.0395	P	0.3
3	☐	5000.000	5065.047	1649879.96	0.3734	P	0.5
4	☐	12500.000	12362.901	3899034.68	0.9100	P	2.2
5	☐	25000.000	24856.530	7506618.75	1.8286	A	1.2
6	☐	50000.000	49293.841	13932603.61	3.6253	A	1.1
7	☐	100000.00	98190.212	27051548.52	7.2204	A	0.5
8	☐	500000.00	500442.50	149036592.2	36.7957	A	0.9

$$y = 7.3524\text{E-}005 * x + 0.0010$$

$$R = 1.0000$$

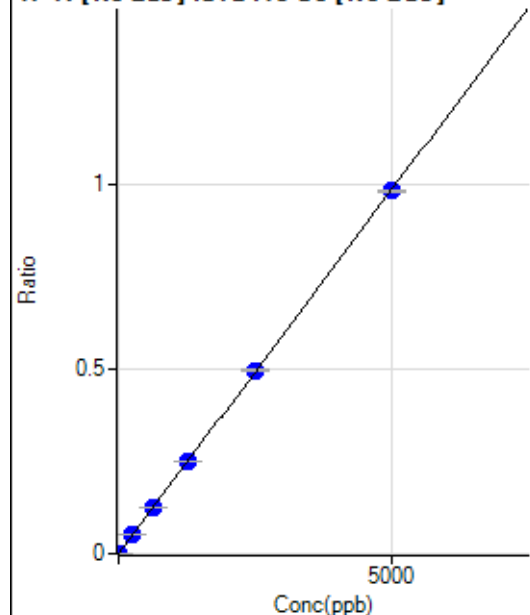
$$DL = 1.825$$

$$BEC = 13.85$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	55.56	0.0000	P	48.0
2	☐	5.000	5.496	4900.92	0.0011	P	5.7
3	☐	250.000	256.418	223261.03	0.0505	P	0.3
4	☐	625.000	631.930	533537.67	0.1245	P	1.4
5	☐	1250.000	1262.371	1021052.26	0.2487	P	0.4
6	☐	2500.000	2517.368	1906106.19	0.4960	P	0.6
7	☐	5000.000	4987.036	3681250.95	0.9825	P	0.4
8	☐			741.71	0.0002	P	5.1

$$y = 1.9701\text{E-}004 * x + 1.2588\text{E-}005$$

$$R = 1.0000$$

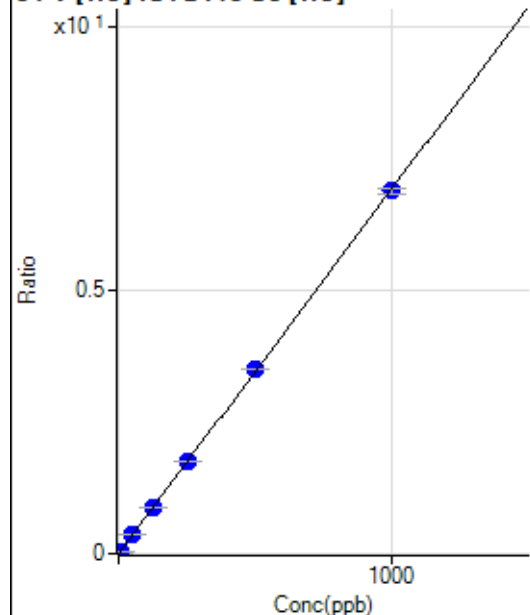
$$DL = 0.09197$$

$$BEC = 0.06389$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	18.89	0.0001	P	40.5
2	☐	5.000	5.495	12129.50	0.0380	P	3.9
3	☐	50.000	51.387	109990.14	0.3553	P	0.6
4	☐	125.000	126.325	261457.14	0.8732	P	0.8
5	☐	250.000	254.080	499484.13	1.7563	P	0.6
6	☐	500.000	505.967	939026.02	3.4974	P	0.3
7	☐	1000.000	995.759	1901737.99	6.8829	P	1.3
8	☐			490.01	0.0017	P	2.7

$$y = 0.0069 * x + 5.9630\text{E-}005$$

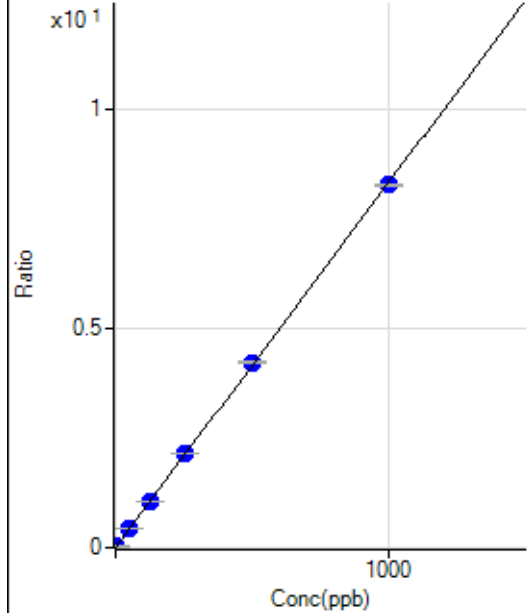
$$R = 1.0000$$

$$DL = 0.01048$$

$$BEC = 0.008627$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	1117.83	0.0035	P	5.4
2	☐	2.000	2.224	7016.18	0.0220	P	2.1
3	☐	50.000	52.129	135100.42	0.4364	P	0.0
4	☐	125.000	128.064	319419.78	1.0668	P	0.7
5	☐	250.000	256.147	605846.19	2.1303	P	0.1
6	☐	500.000	507.342	1131942.75	4.2159	P	0.5
7	☐	1000.000	994.302	2281815.94	8.2591	P	0.5
8	☐			13014.71	0.0439	P	1.5

$$y = 0.0083 * x + 0.0035$$

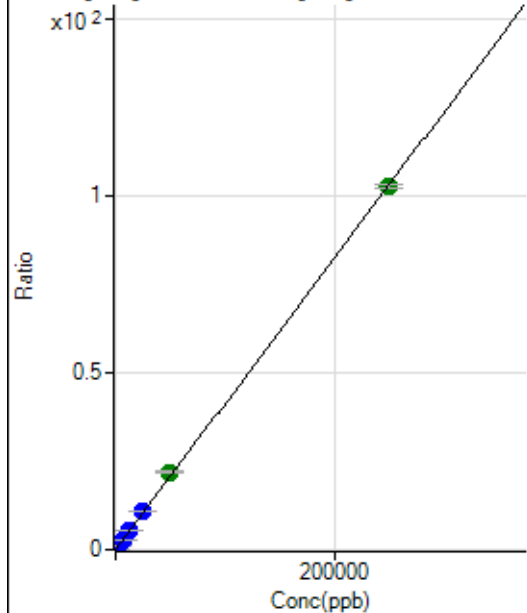
$$R = 0.9999$$

$$DL = 0.0689$$

$$BEC = 0.4255$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	934.33	0.0030	P	6.7
2	☐	50.000	58.215	8581.32	0.0269	P	1.8
3	☐	2500.000	2693.273	344017.50	1.1111	P	0.1
4	☐	6250.000	6630.656	817747.16	2.7312	P	0.8
5	☐	12500.000	13190.901	1544401.33	5.4304	P	0.2
6	☐	25000.000	26135.515	2888034.08	10.7565	P	0.7
7	☐	50000.000	53309.252	6060571.61	21.9373	A	1.0
8	☐	250000.00	249178.60	30396263.32	102.5286	A	1.1

$$y = 4.1145E-004 * x + 0.0030$$

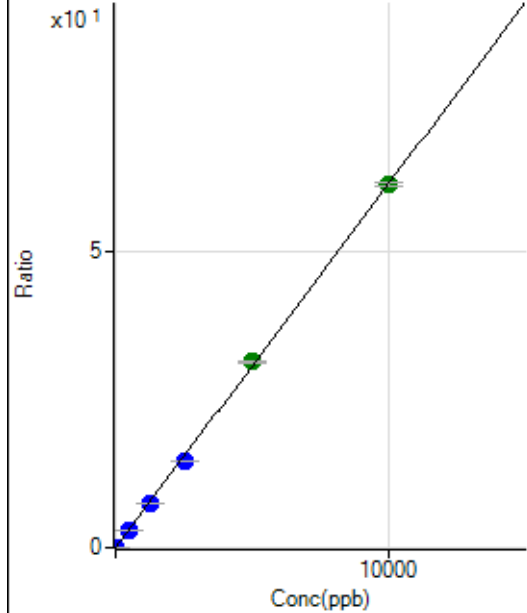
$$R = 0.9999$$

$$DL = 1.448$$

$$BEC = 7.176$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	137.78	0.0004	P	9.5
2	☐	1.000	1.063	2226.86	0.0070	P	4.0
3	☐	500.000	485.927	926463.22	2.9923	P	0.6
4	☐	1250.000	1198.251	2209089.69	7.3781	P	0.8
5	☐	2500.000	2385.271	4176829.80	14.6866	P	0.3
6	☐	5000.000	5117.605	8459930.43	31.5097	A	1.5
7	☐	10000.000	9977.052	16968662.80	61.4295	A	1.1
8	☐			9887.85	0.0334	P	1.3

$$y = 0.0062 * x + 4.3541E-004$$

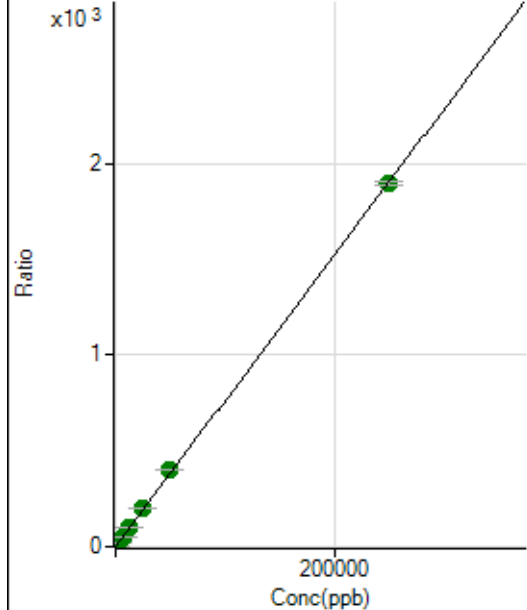
$$R = 0.9998$$

$$DL = 0.02013$$

$$BEC = 0.07072$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	5788.27	0.0183	P	1.9
2	☐	50.000	55.086	139238.70	0.4366	P	1.4
3	☐	2500.000	2730.260	6425104.89	20.7518	A	0.3
4	☐	6250.000	6683.072	15200976.61	50.7692	A	0.6
5	☐	12500.000	13394.822	28933807.59	101.7379	A	0.5
6	☐	25000.000	26740.079	54525061.40	203.0811	A	1.1
7	☐	50000.000	52660.038	110471967.2	399.9160	A	1.0
8	☐	250000.00	249236.11	561128568.1	1.892.704	A	0.9

$$y = 0.0076 * x + 0.0183$$

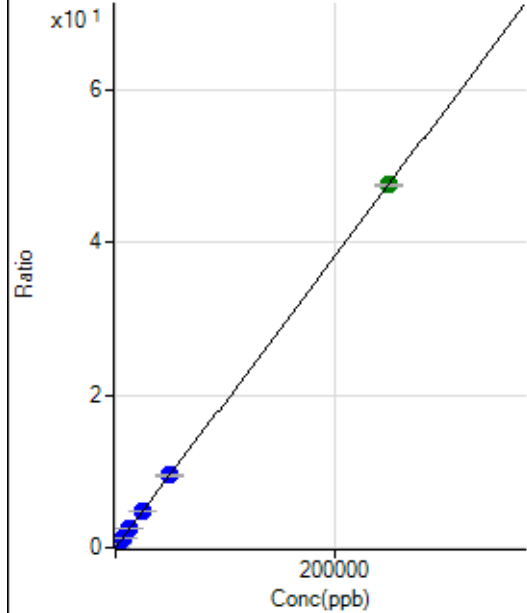
$$R = 0.9999$$

$$DL = 0.1372$$

$$BEC = 2.409$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	148.15	0.0005	P	16.8
2	☐	50.000	55.181	3491.21	0.0109	P	0.8
3	☐	2500.000	2620.298	154192.84	0.4980	P	0.2
4	☐	6250.000	6409.734	364548.79	1.2176	P	0.9
5	☐	12500.000	12768.786	689678.37	2.4250	P	0.3
6	☐	25000.000	25457.106	1297983.14	4.8343	P	0.6
7	☐	50000.000	49735.892	2609033.74	9.4445	P	0.5
8	☐	250000.00	249988.47	14073256.45	47.4690	A	0.6

$$y = 1.8988\text{E-}004 * x + 4.6823\text{E-}004$$

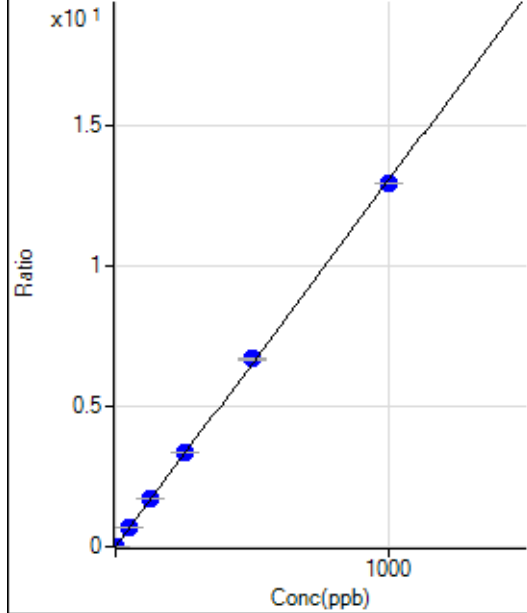
$$R = 1.0000$$

$$DL = 1.244$$

$$BEC = 2.466$$

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	60.00	0.0002	P	9.9
2	☐	1.000	1.135	4776.37	0.0150	P	3.1
3	☐	50.000	53.272	214859.27	0.6940	P	0.3
4	☐	125.000	130.343	508303.35	1.6976	P	0.4
5	☐	250.000	258.772	958467.93	3.3702	P	0.4
6	☐	500.000	512.868	1793329.63	6.6793	P	0.6
7	☐	1000.000	990.541	3563791.82	12.9000	P	0.1
8	☐			5695.59	0.0192	P	4.0

$$y = 0.0130 * x + 1.8967\text{E-}004$$

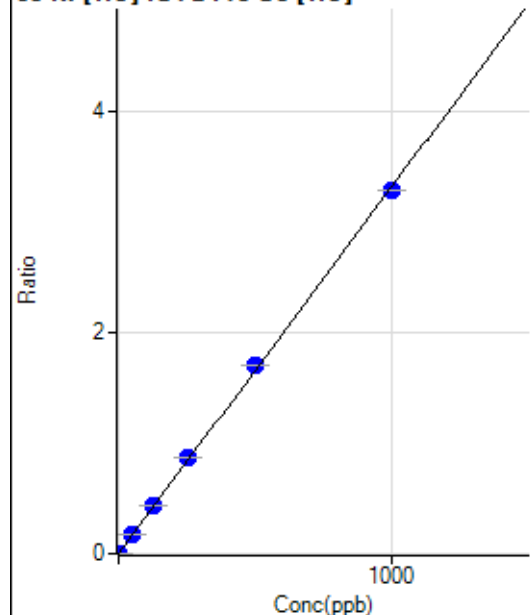
$$R = 0.9998$$

$$DL = 0.004323$$

$$BEC = 0.01456$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	138.89	0.0004	P	5.6
2	☐	1.000	1.172	1375.63	0.0043	P	5.9
3	☐	50.000	53.808	55235.57	0.1784	P	0.9
4	☐	125.000	131.076	129930.88	0.4340	P	1.0
5	☐	250.000	260.638	245287.89	0.8625	P	0.3
6	☐	500.000	513.182	455833.98	1.6977	P	0.4
7	☐	1000.000	989.799	904541.09	3.2741	P	0.1
8	☐			3830.53	0.0129	P	0.6

$$y = 0.0033 * x + 4.3893E-004$$

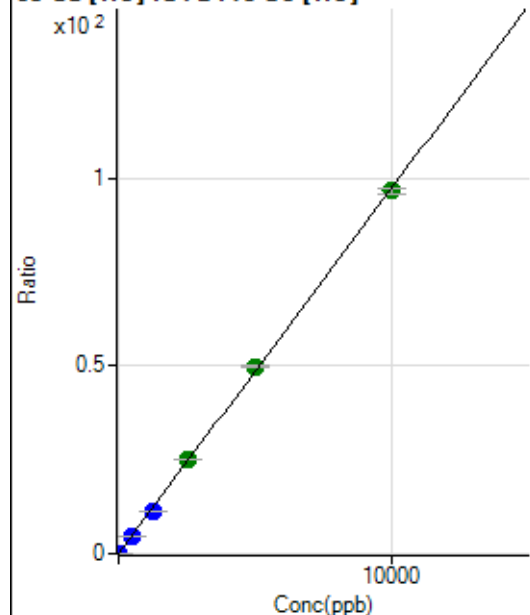
$$R = 0.9998$$

$$DL = 0.02244$$

$$BEC = 0.1327$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	564.46	0.0018	P	4.6
2	☐	2.000	2.100	7078.44	0.0222	P	1.1
3	☐	500.000	485.308	1461236.23	4.7196	P	0.4
4	☐	1250.000	1177.087	3426543.25	11.4445	P	1.1
5	☐	2500.000	2568.371	7101090.66	24.9695	A	1.1
6	☐	5000.000	5119.575	13362703.41	49.7703	A	1.4
7	☐	10000.000	9932.969	26677438.77	96.5624	A	1.3
8	☐			6890.59	0.0232	P	4.4

$$y = 0.0097 * x + 0.0018$$

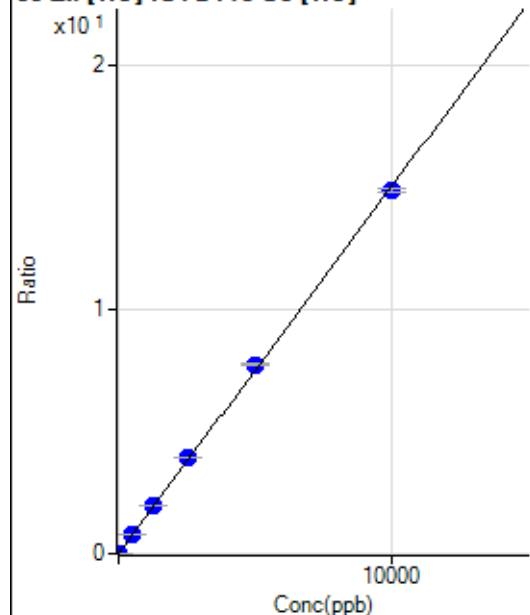
$$R = 0.9998$$

$$DL = 0.02519$$

$$BEC = 0.1835$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	431.12	0.0014	P	7.1
2	☐	2.000	2.543	1653.44	0.0052	P	5.3
3	☐	500.000	533.213	248685.37	0.8032	P	0.8
4	☐	1250.000	1310.439	590449.95	1.9721	P	0.9
5	☐	2500.000	2616.799	1119568.03	3.9366	P	0.2
6	☐	5000.000	5155.665	2082068.92	7.7547	P	0.8
7	☐	10000.000	9883.752	4107295.63	14.8650	P	1.1
8	☐			6632.67	0.0224	P	1.6

$$y = 0.0015 * x + 0.0014$$

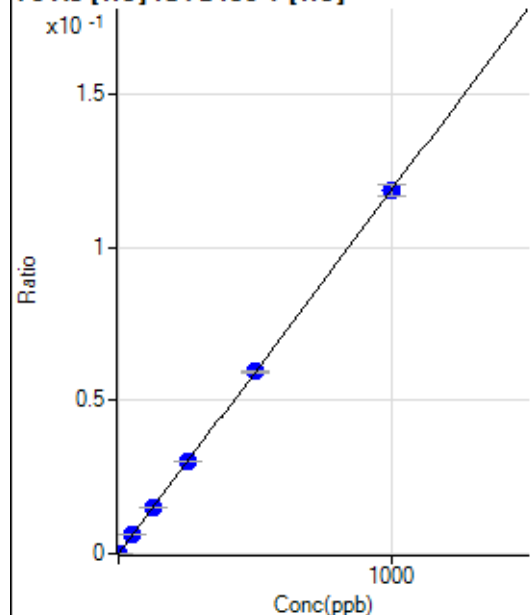
$$R = 0.9997$$

$$DL = 0.1929$$

$$BEC = 0.906$$

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	3.70	0.0000	P	99.9
2	☐	1.000	1.133	329.64	0.0001	P	8.5
3	☐	50.000	51.898	14459.67	0.0062	P	0.7
4	☐	125.000	126.737	34384.87	0.0151	P	0.3
5	☐	250.000	252.907	65396.36	0.0301	P	0.1
6	☐	500.000	501.838	123912.46	0.0597	P	0.9
7	☐	1000.000	998.042	253497.01	0.1186	P	3.1
8	☐			83.34	0.0000	P	20.3

$$y = 1.1888E-004 * x + 1.5486E-006$$

$$R = 1.0000$$

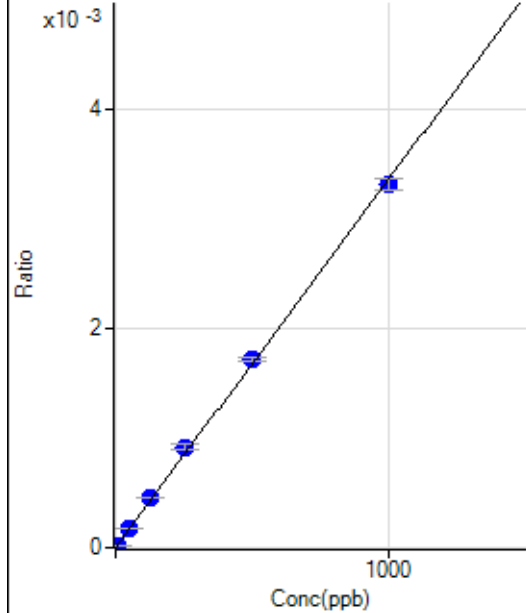
$$DL = 0.03906$$

$$BEC = 0.01303$$

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	0.00	0.0000	P	
2	☐	5.000	6.005	48.89	0.0000	P	40.7
3	☐	50.000	53.326	420.01	0.0002	P	1.0
4	☐	125.000	134.868	1034.49	0.0005	P	0.9
5	☐	250.000	273.144	1996.83	0.0009	P	5.8
6	☐	500.000	514.244	3590.48	0.0017	P	2.0
7	☐	1000.000	985.687	7069.57	0.0033	P	3.2
8	☐			4.44	0.0000	P	43.3

$$y = 3.3612\text{E-}006 * x + 0.0000\text{E+}000$$

$$R = 0.9995$$

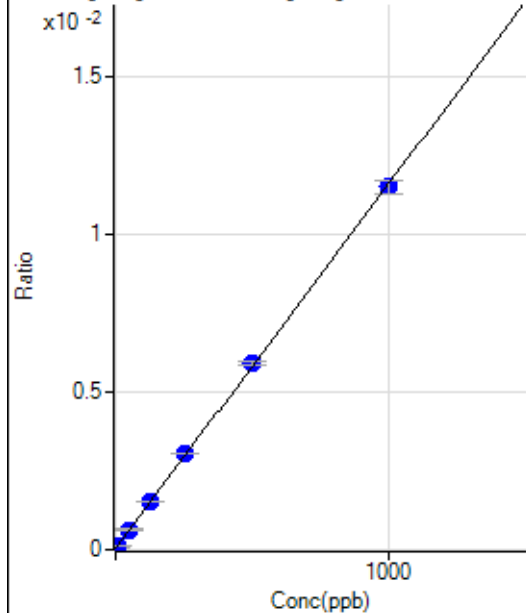
$$DL = 0$$

$$BEC = 0$$

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	80.86	0.0000	P	16.4
2	☐	5.000	5.357	232.10	0.0001	P	7.9
3	☐	50.000	52.407	1501.32	0.0006	P	3.8
4	☐	125.000	129.604	3502.29	0.0015	P	1.4
5	☐	250.000	260.063	6624.39	0.0030	P	0.7
6	☐	500.000	508.989	12313.27	0.0059	P	1.1
7	☐	1000.000	992.292	24593.02	0.0115	P	3.7
8	☐			75.92	0.0000	P	19.7

$$y = 1.1581\text{E-}005 * x + 3.3804\text{E-}005$$

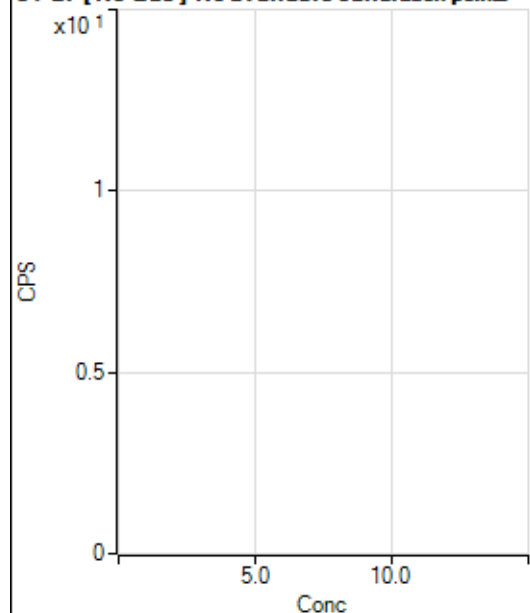
$$R = 0.9999$$

$$DL = 1.44$$

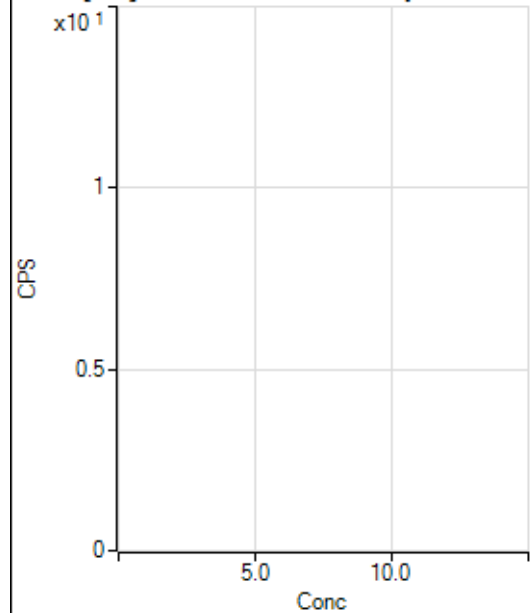
$$BEC = 2.919$$

Weight: <None>

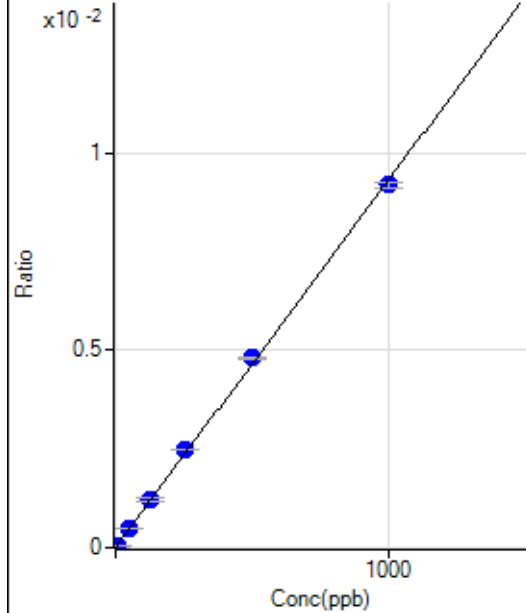
Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			6348.76		P	1.5
2	☐			6359.87		P	6.2
3	☐			6276.55		P	1.1
4	☐			5970.87		P	11.0
5	☐			5829.09		P	6.4
6	☐			5517.84		P	2.1
7	☐			4756.49		P	4.7
8	☐			5779.08		P	5.3

81 Br [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			33.37		P	17.3
2	☐			26.69		P	78.1
3	☐			26.69		P	78.1
4	☐			36.70		P	83.3
5	☐			146.82		P	15.7
6	☐			103.44		P	68.7
7	☐			60.06		P	44.1
8	☐			66.73		P	8.7

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	51.19	0.0000	P	152.
2	☐	5.000	5.591	681.20	0.0001	P	6.5
3	☐	50.000	53.693	6000.83	0.0005	P	2.0
4	☐	125.000	130.214	14117.74	0.0012	P	4.5
5	☐	250.000	266.147	27810.57	0.0025	P	1.2
6	☐	500.000	516.256	51504.52	0.0048	P	0.8
7	☐	1000.000	986.996	97053.69	0.0092	P	1.4
8	☐			64.48	0.0000	P	108.

$$y = 9.2978\text{E-}006 * x + 4.2585\text{E-}006$$

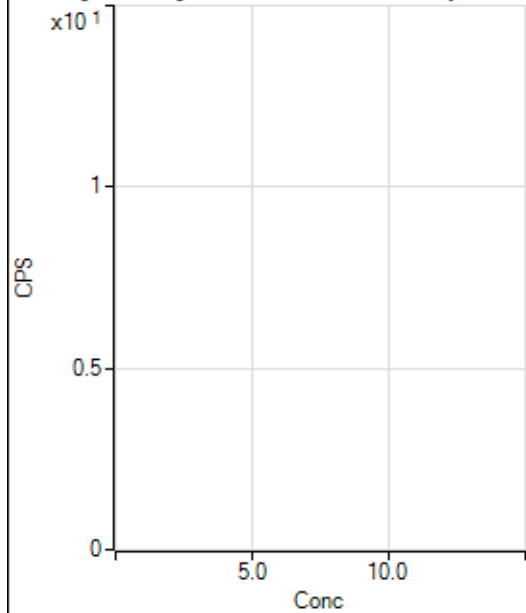
$$R = 0.9997$$

$$DL = 2.097$$

$$BEC = 0.458$$

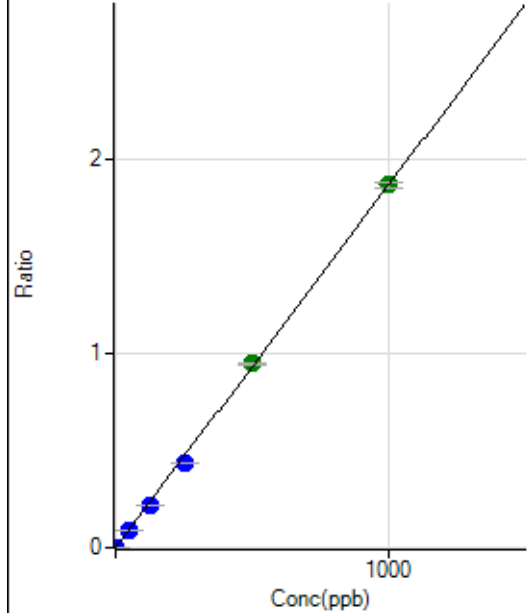
Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			653.36		P	8.7
2	☐			626.68		P	4.4
3	☐			667.80		P	3.4
4	☐			588.91		P	4.3
5	☐			615.57		P	2.7
6	☐			582.24		P	11.2
7	☐			547.80		P	14.1
8	☐			565.57		P	14.4

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1063.95	0.0001	P	12.0
2	☐	1.000	0.095	3228.22	0.0003	P	1.2
3	☐	50.000	47.987	1066260.05	0.0895	P	0.5
4	☐	125.000	117.630	2547450.88	0.2192	P	1.9
5	☐	250.000	234.955	4910287.83	0.4377	P	0.4
6	☐	500.000	507.561	10134611.86	0.9454	A	1.2
7	☐	1000.000	1001.003	19707807.04	1.8643	A	1.4
8	☐			5203.85	0.0005	P	4.4

$$y = 0.0019 * x + 8.8792E-005$$

$$R = 0.9998$$

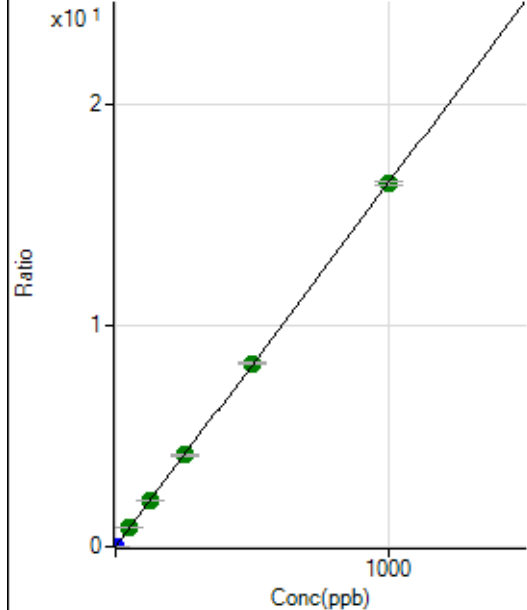
$$DL = 0.01723$$

$$BEC = 0.04768$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	327.79	0.0000	P	22.3
2	☐	1.000	0.098	19914.21	0.0016	P	0.9
3	☐	50.000	50.947	10001068.45	0.8391	A	1.4
4	☐	125.000	125.545	24033209.22	2.0677	A	2.0
5	☐	250.000	251.193	46413878.12	4.1370	A	0.6
6	☐	500.000	503.964	88980908.24	8.3000	A	0.7
7	☐	1000.000	997.605	173687212.2	16.4299	A	0.9
8	☐			39139.95	0.0035	P	1.7

$$y = 0.0165 * x + 2.7313E-005$$

$$R = 1.0000$$

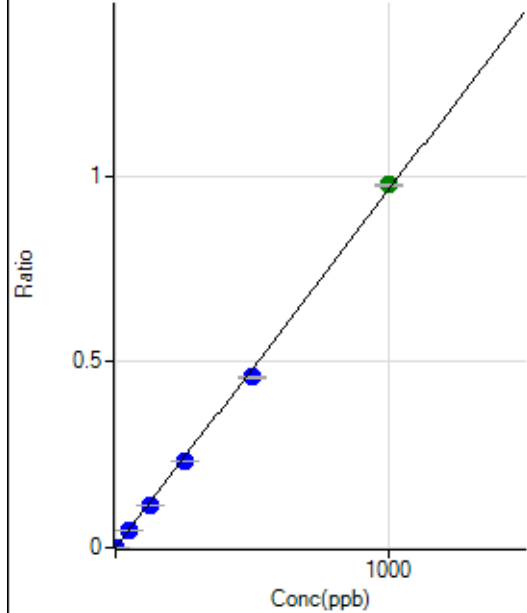
$$DL = 0.001111$$

$$BEC = 0.001658$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	655.59	0.0001	P	16.3
2	☐	1.000	1.035	12730.90	0.0011	P	2.0
3	☐	50.000	48.674	558633.15	0.0469	P	0.4
4	☐	125.000	120.059	1342907.00	0.1155	P	1.5
5	☐	250.000	240.633	2597184.82	0.2315	P	0.6
6	☐	500.000	476.726	4916008.01	0.4586	P	1.2
7	☐	1000.000	1014.663	10317599.36	0.9760	A	0.5
8	☐			2030.76	0.0002	P	9.6

$$y = 9.6180\text{E-}004 * x + 5.4661\text{E-}005$$

$$R = 0.9996$$

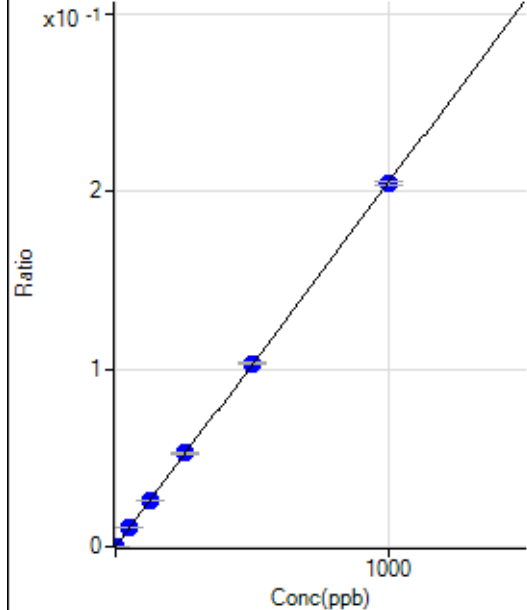
$$DL = 0.02774$$

$$BEC = 0.05683$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	161.12	0.0000	P	11.5
2	☐	1.000	1.034	2730.87	0.0002	P	2.1
3	☐	50.000	51.157	125138.72	0.0105	P	0.5
4	☐	125.000	126.417	301367.44	0.0259	P	1.0
5	☐	250.000	256.983	591084.22	0.0527	P	1.2
6	☐	500.000	503.605	1106741.93	0.1032	P	0.9
7	☐	1000.000	996.217	2158831.06	0.2042	P	1.1
8	☐			427.80	0.0000	P	9.5

$$y = 2.0497\text{E-}004 * x + 1.3447\text{E-}005$$

$$R = 1.0000$$

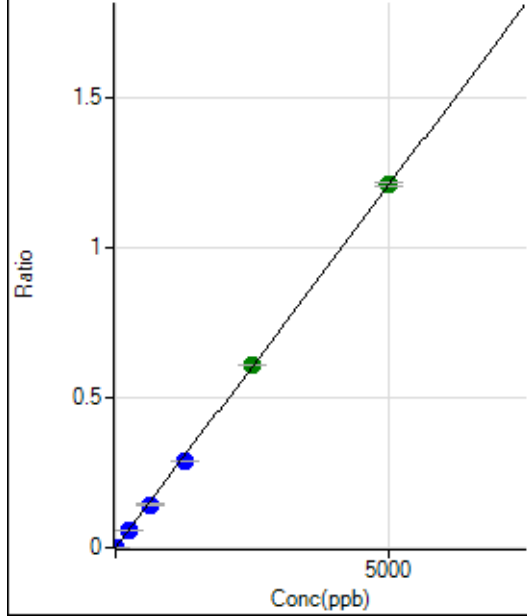
$$DL = 0.02254$$

$$BEC = 0.06561$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	261.12	0.0000	P	10.1
2	☐	5.000	4.830	14374.15	0.0012	P	1.2
3	☐	250.000	242.271	696409.76	0.0584	P	0.6
4	☐	625.000	594.133	1665218.14	0.1433	P	1.5
5	☐	1250.000	1196.651	3236784.47	0.2885	P	0.9
6	☐	2500.000	2519.735	6512547.37	0.6075	A	0.8
7	☐	5000.000	5007.715	12762612.09	1.2073	A	1.2
8	☐			3336.59	0.0003	P	4.2

$$y = 2.4108\text{E-}004 * x + 2.1786\text{E-}005$$

$$R = 0.9999$$

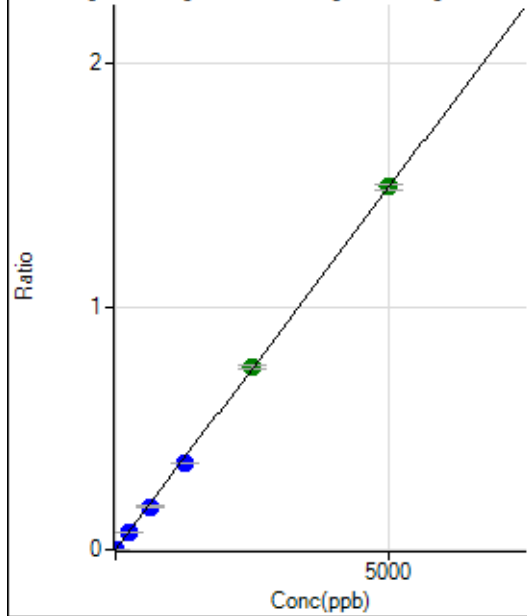
$$DL = 0.02727$$

$$BEC = 0.09037$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	58.33	0.0000	P	29.0
2	☐	5.000	4.936	17880.97	0.0015	P	0.8
3	☐	250.000	240.866	855416.11	0.0718	P	0.5
4	☐	625.000	594.433	2058788.74	0.1771	P	1.5
5	☐	1250.000	1188.101	3971482.51	0.3540	P	0.9
6	☐	2500.000	2521.106	8053013.98	0.7512	A	1.3
7	☐	5000.000	5009.200	15778742.89	1.4925	A	1.3
8	☐			4442.48	0.0004	P	2.5

$$y = 2.9795\text{E-}004 * x + 4.8698\text{E-}006$$

$$R = 0.9999$$

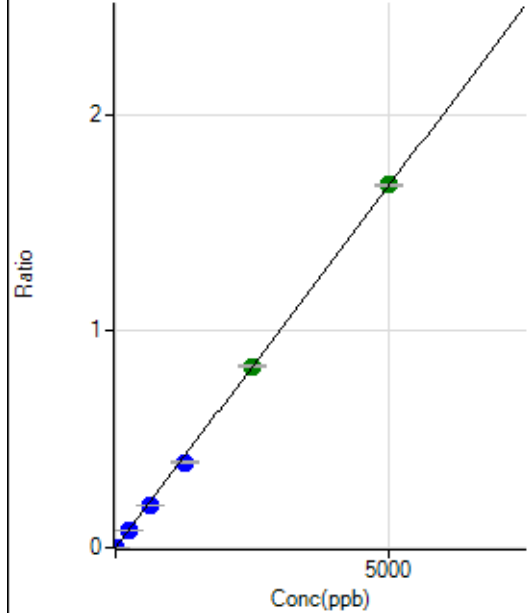
$$DL = 0.01424$$

$$BEC = 0.01634$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	105.56	0.0000	P	4.6
2	☐	5.000	5.048	20529.14	0.0017	P	2.3
3	☐	250.000	238.691	950018.26	0.0797	P	0.4
4	☐	625.000	589.692	2288812.53	0.1969	P	1.7
5	☐	1250.000	1182.791	4430773.84	0.3949	P	1.0
6	☐	2500.000	2509.527	8983607.93	0.8379	A	0.8
7	☐	5000.000	5017.018	17710272.44	1.6752	A	0.2
8	☐			5834.67	0.0005	P	5.7

$$y = 3.3390\text{E-}004 * x + 8.8059\text{E-}006$$

$$R = 0.9999$$

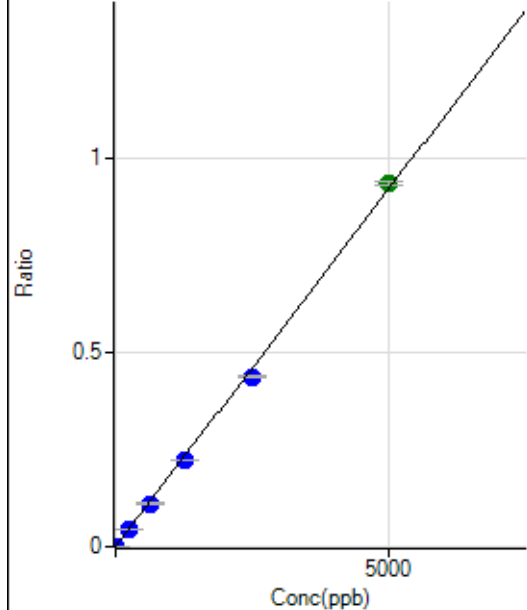
$$DL = 0.003673$$

$$BEC = 0.02637$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	33.33	0.0000	P	42.6
2	☐	5.000	5.132	11491.03	0.0009	P	3.5
3	☐	250.000	244.322	536576.01	0.0450	P	0.9
4	☐	625.000	604.205	1294061.01	0.1113	P	1.8
5	☐	1250.000	1208.707	2498581.39	0.2227	P	1.1
6	☐	2500.000	2375.220	4691645.29	0.4376	P	1.3
7	☐	5000.000	5075.596	9886130.60	0.9352	A	1.0
8	☐			2728.12	0.0002	P	4.2

$$y = 1.8425\text{E-}004 * x + 2.7756\text{E-}006$$

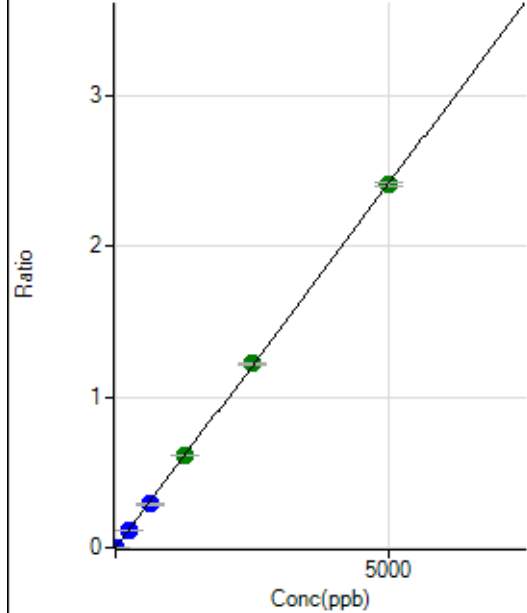
$$R = 0.9995$$

$$DL = 0.01925$$

$$BEC = 0.01506$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	86.11	0.0000	P	39.4
2	☐	5.000	4.996	29269.30	0.0024	P	3.6
3	☐	250.000	241.168	1385831.14	0.1163	P	0.5
4	☐	625.000	596.573	3343204.67	0.2876	P	1.4
5	☐	1250.000	1267.714	6856328.45	0.6112	A	1.6
6	☐	2500.000	2527.626	13063534.32	1.2186	A	0.9
7	☐	5000.000	4985.753	25408869.84	2.4036	A	1.1
8	☐			6899.05	0.0006	P	4.6

$$y = 4.8209\text{E-}004 * x + 7.1920\text{E-}006$$

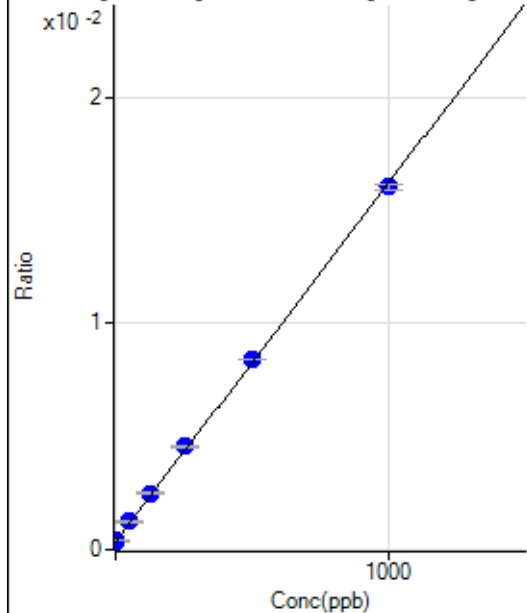
$$R = 0.9999$$

$$DL = 0.01761$$

$$BEC = 0.01492$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	4122.93	0.0004	P	2.5
2	☐	1.000	3.468	4820.40	0.0004	P	1.7
3	☐	50.000	56.259	14799.72	0.0012	P	3.5
4	☐	125.000	135.923	29419.89	0.0025	P	1.1
5	☐	250.000	266.219	52974.03	0.0046	P	1.8
6	☐	500.000	509.418	95282.07	0.0084	P	0.4
7	☐	1000.000	989.555	179872.22	0.0160	P	1.9
8	☐			4281.32	0.0004	P	5.1

$$y = 1.5854\text{E-}005 * x + 3.5018\text{E-}004$$

$$R = 0.9998$$

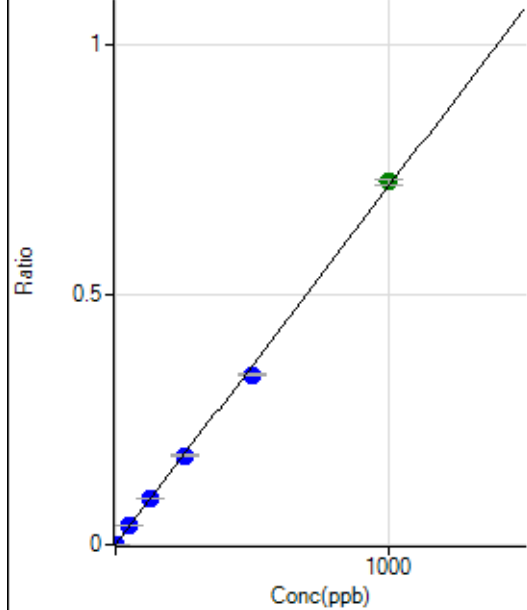
$$DL = 1.68$$

$$BEC = 22.09$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	63.89	0.0000	P	29.6
2	☐	1.000	1.088	9333.82	0.0008	P	1.6
3	☐	50.000	52.288	446047.96	0.0374	P	0.7
4	☐	125.000	127.985	1076041.83	0.0916	P	1.1
5	☐	250.000	248.158	2058951.57	0.1777	P	1.2
6	☐	500.000	473.846	3835365.97	0.3392	P	1.3
7	☐	1000.000	1013.050	8133149.75	0.7252	A	1.7
8	☐			2184.30	0.0002	P	24.8

$$y = 7.1587E-004 * x + 5.4197E-006$$

$$R = 0.9995$$

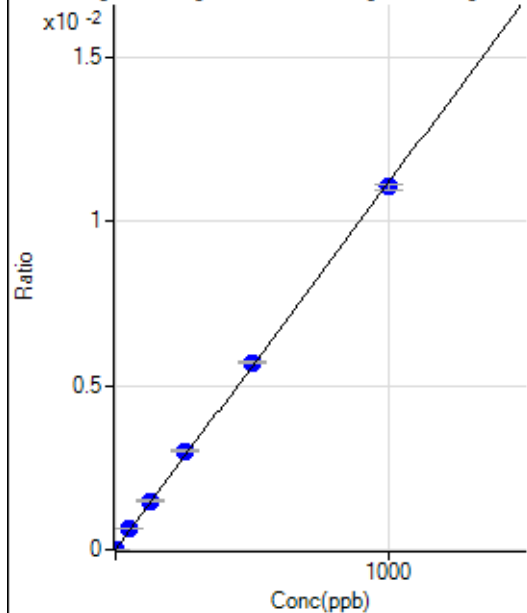
$$DL = 0.006729$$

$$BEC = 0.007571$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	38.89	0.0000	P	22.4
2	☐	1.000	1.335	216.67	0.0000	P	9.8
3	☐	50.000	55.396	7406.15	0.0006	P	1.5
4	☐	125.000	133.344	17517.85	0.0015	P	1.7
5	☐	250.000	269.407	34891.41	0.0030	P	1.1
6	☐	500.000	510.596	64474.45	0.0057	P	1.4
7	☐	1000.000	988.537	123776.26	0.0110	P	1.8
8	☐			102.78	0.0000	P	16.4

$$y = 1.1162E-005 * x + 3.3030E-006$$

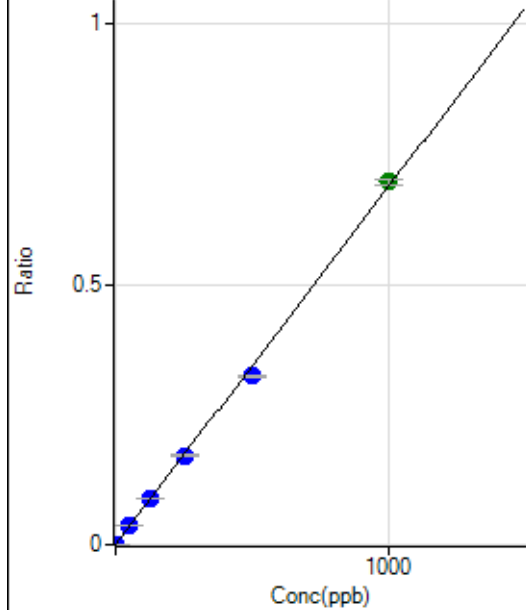
$$R = 0.9997$$

$$DL = 0.1984$$

$$BEC = 0.2959$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	16.66	0.0000	P	87.3
2	☐	1.000	1.091	8939.17	0.0008	P	6.2
3	☐	50.000	52.525	430426.33	0.0361	P	0.9
4	☐	125.000	127.895	1032996.59	0.0880	P	1.5
5	☐	250.000	249.789	1991041.80	0.1718	P	1.2
6	☐	500.000	471.889	3669527.42	0.3245	P	0.8
7	☐	1000.000	1013.620	7818098.62	0.6971	A	1.7
8	☐			1491.78	0.0001	P	8.3

$$y = 6.8775\text{E-}004 * x + 1.4207\text{E-}006$$

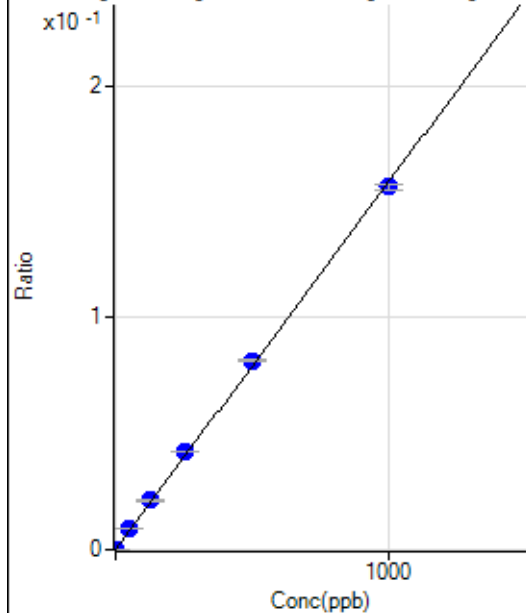
$$R = 0.9994$$

$$DL = 0.005409$$

$$BEC = 0.002066$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	221.63	0.0000	P	6.2
2	☐	1.000	1.142	2377.12	0.0002	P	2.1
3	☐	50.000	55.050	104200.13	0.0087	P	0.3
4	☐	125.000	134.331	250288.82	0.0213	P	2.1
5	☐	250.000	266.631	490060.13	0.0423	P	1.3
6	☐	500.000	514.346	922092.99	0.0816	P	0.9
7	☐	1000.000	987.250	1755295.03	0.1565	P	1.8
8	☐			445.96	0.0000	P	3.9

$$y = 1.5852\text{E-}004 * x + 1.8827\text{E-}005$$

$$R = 0.9997$$

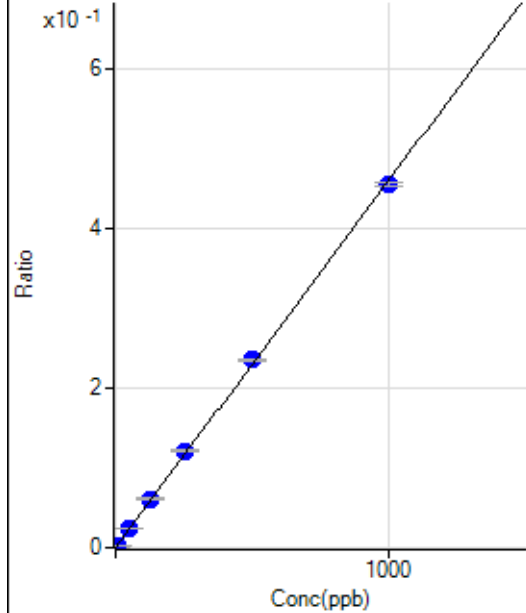
$$DL = 0.02198$$

$$BEC = 0.1188$$

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	602.81	0.0001	P	13.5
2	☐	5.000	5.662	31636.19	0.0027	P	0.8
3	☐	50.000	53.880	296274.28	0.0249	P	0.6
4	☐	125.000	133.456	722411.98	0.0615	P	1.6
5	☐	250.000	263.189	1405429.04	0.1213	P	1.2
6	☐	500.000	513.040	2672164.08	0.2363	P	1.1
7	☐	1000.000	988.928	5108632.88	0.4555	P	1.1
8	☐			2080.76	0.0002	P	7.4

$$y = 4.6055\text{E-}004 * x + 5.1228\text{E-}005$$

$$R = 0.9998$$

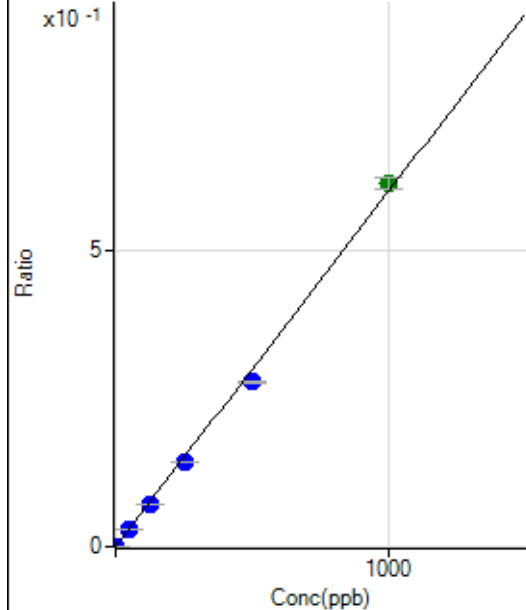
$$DL = 0.04503$$

$$BEC = 0.1112$$

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	127.78	0.0000	P	21.6
2	☐	2.000	2.060	14791.37	0.0012	P	3.7
3	☐	50.000	48.565	346301.19	0.0291	P	0.9
4	☐	125.000	120.777	848705.07	0.0723	P	0.6
5	☐	250.000	238.733	1655453.37	0.1428	P	0.7
6	☐	500.000	463.947	3138392.41	0.2776	P	0.9
7	☐	1000.000	1021.443	6852717.77	0.6111	A	3.0
8	☐			4184.07	0.0004	P	5.1

$$y = 5.9825\text{E-}004 * x + 1.0862\text{E-}005$$

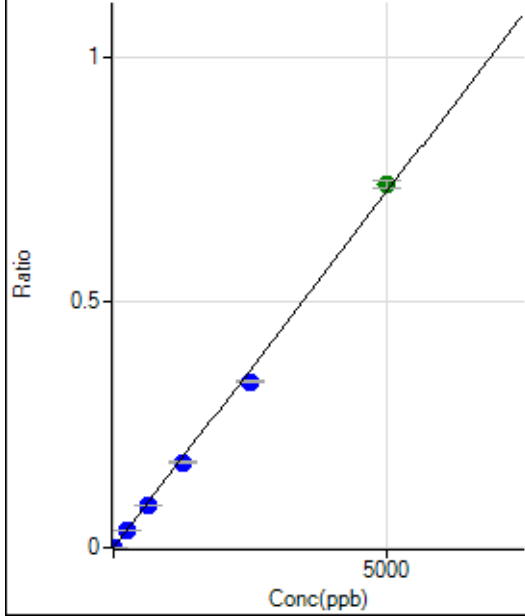
$$R = 0.9990$$

$$DL = 0.01177$$

$$BEC = 0.01816$$

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	13.89	0.0000	P	91.2
2	☐	10.000	10.371	17906.27	0.0015	P	3.1
3	☐	250.000	246.403	425783.21	0.0357	P	0.4
4	☐	625.000	603.250	1027440.84	0.0875	P	1.1
5	☐	1250.000	1198.376	2014248.98	0.1738	P	1.1
6	☐	2500.000	2332.970	3825523.83	0.3383	P	0.6
7	☐	5000.000	5099.319	8293412.77	0.7395	A	2.1
8	☐			2194.67	0.0002	P	6.4

$$y = 1.4502\text{E-}004 * x + 1.1757\text{E-}006$$

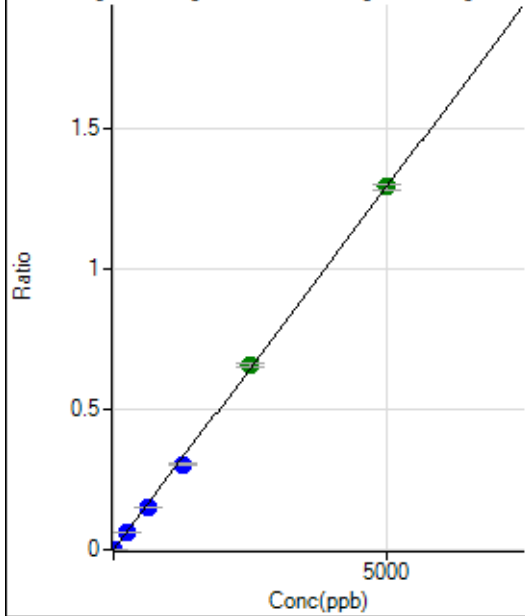
$$R = 0.9991$$

$$DL = 0.02218$$

$$BEC = 0.008107$$

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	44.45	0.0000	P	65.0
2	☐	10.000	10.117	31076.79	0.0026	P	1.8
3	☐	250.000	243.050	746698.75	0.0627	P	0.2
4	☐	625.000	593.477	1797046.00	0.1530	P	1.0
5	☐	1250.000	1174.787	3510501.16	0.3029	P	1.2
6	☐	2500.000	2542.042	7410384.45	0.6554	A	1.7
7	☐	5000.000	5002.070	14463862.65	1.2897	A	1.4
8	☐			3725.60	0.0003	P	5.3

$$y = 2.5783\text{E-}004 * x + 3.7596\text{E-}006$$

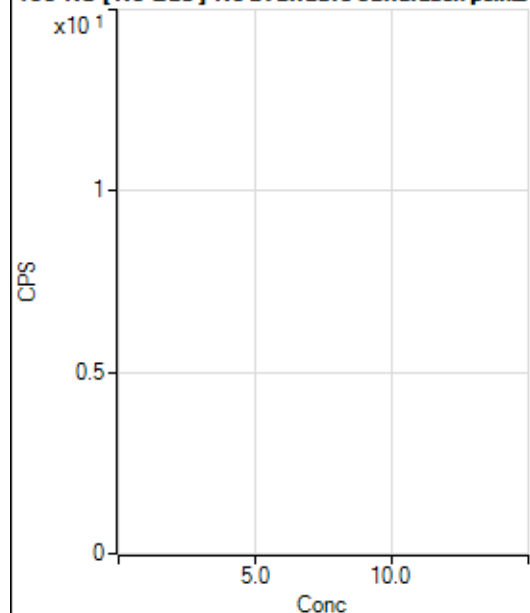
$$R = 0.9998$$

$$DL = 0.02843$$

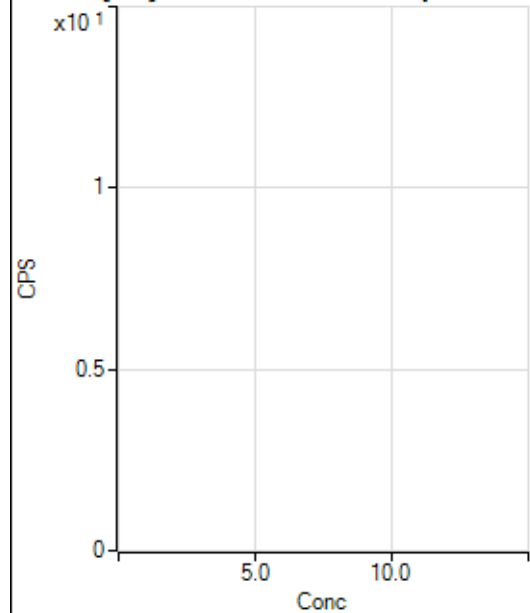
$$BEC = 0.01458$$

Weight: <None>

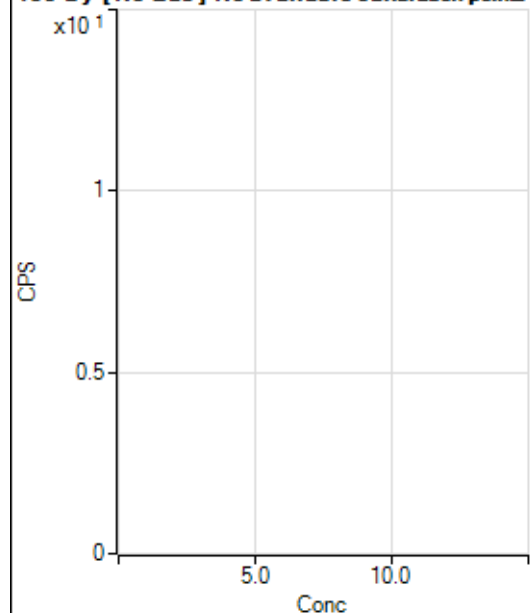
Min Conc: 0

150 Nd [No Gas] No available calibration points

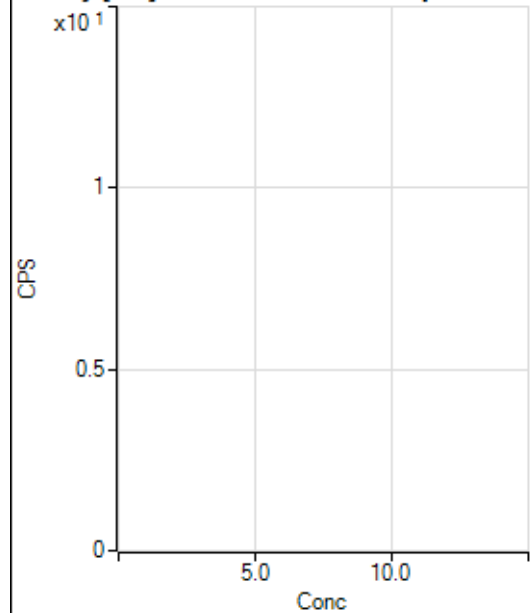
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2.22		P	173.
2	☐			4.45		P	86.6
3	☐			31.11		P	53.9
4	☐			97.78		P	17.2
5	☐			182.23		P	4.2
6	☐			344.46		P	16.2
7	☐			477.80		P	18.2
8	☐			26.67		P	50.0

150 Nd [He] No available calibration points

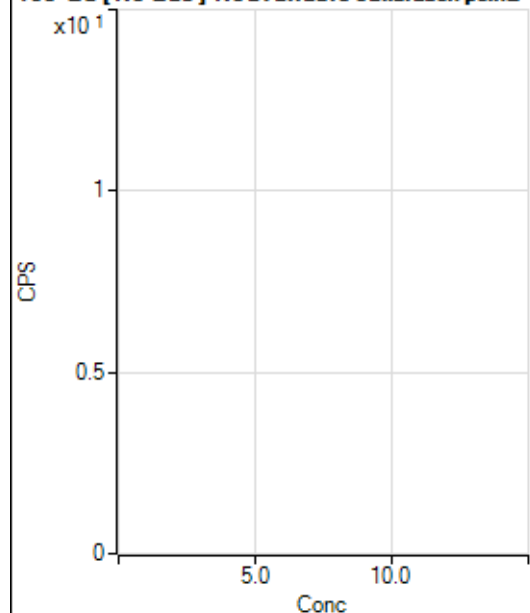
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1.11		P	173.
2	☐			0.00		P	
3	☐			6.67		P	86.6
4	☐			7.78		P	65.5
5	☐			20.00		P	33.4
6	☐			56.67		P	0.0
7	☐			86.67		P	6.7
8	☐			12.22		P	31.5

156 Dy [No Gas] No available calibration points

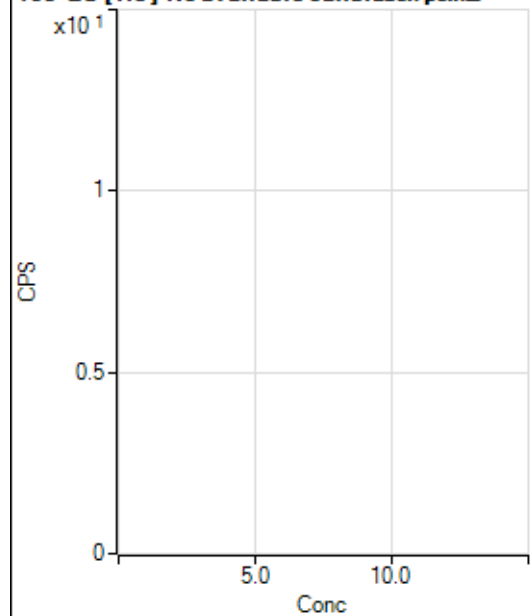
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			11.11		P	43.3
2	☐			8.33		P	100.
3	☐			38.89		P	12.4
4	☐			66.67		P	57.3
5	☐			130.56		P	13.3
6	☐			241.67		P	9.1
7	☐			536.14		P	8.6
8	☐			1177.86		P	4.5

156 Dy [He] No available calibration points

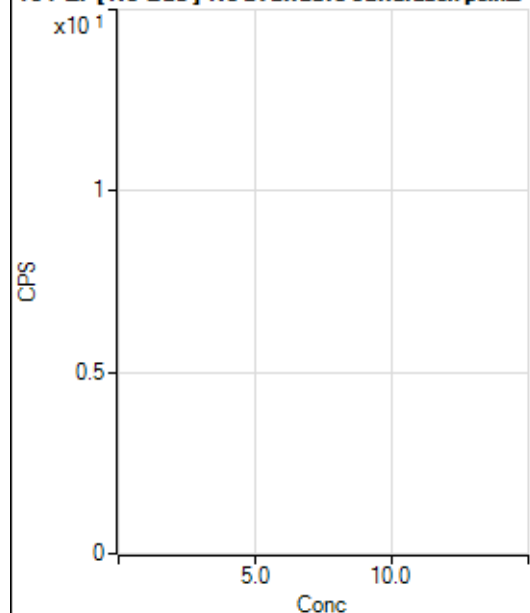
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			8.89		P	142.
2	☐			4.44		P	114.
3	☐			20.00		P	60.1
4	☐			35.55		P	10.8
5	☐			71.11		P	32.9
6	☐			167.78		P	6.1
7	☐			317.79		P	15.4
8	☐			844.48		P	5.7

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

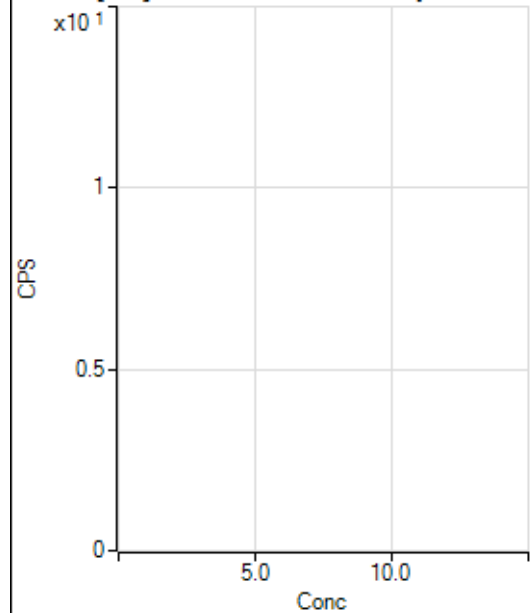
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			63.89		P	74.2
2	☐			33.33		P	50.0
3	☐			72.22		P	24.0
4	☐			88.89		P	5.4
5	☐			150.00		P	40.1
6	☐			227.78		P	7.6
7	☐			500.02		P	15.0
8	☐			1416.78		P	5.2

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			91.11		P	22.1
2	☐			98.89		P	7.0
3	☐			85.56		P	38.2
4	☐			141.11		P	20.1
5	☐			161.12		P	14.1
6	☐			257.79		P	9.1
7	☐			355.56		P	16.5
8	☐			1077.83		P	2.1

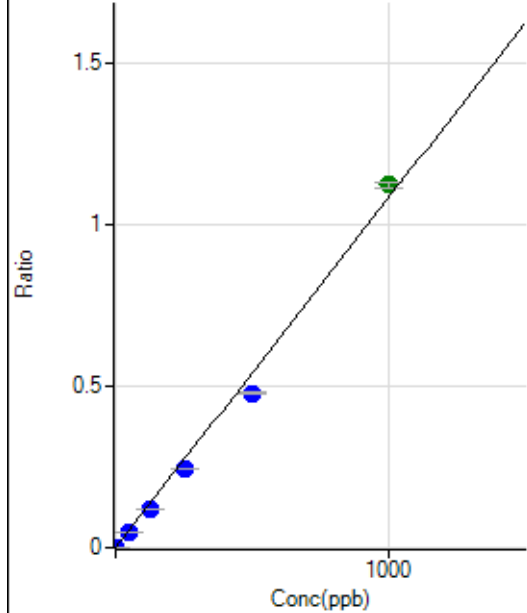
164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			61.11		P	55.1
2	☐			72.22		P	17.6
3	☐			83.34		P	10.0
4	☐			91.67		P	18.2
5	☐			88.89		P	10.8
6	☐			161.12		P	13.0
7	☐			144.45		P	36.6
8	☐			255.57		P	1.9

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			32.22		P	21.5
2	☐			40.00		P	8.3
3	☐			40.00		P	28.9
4	☐			56.67		P	21.2
5	☐			70.00		P	29.0
6	☐			73.33		P	4.5
7	☐			91.11		P	18.4
8	☐			146.67		P	6.0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	527.80	0.0001	P	12.2
2	☐	1.000	0.954	9050.58	0.0011	P	3.8
3	☐	50.000	45.126	399087.00	0.0490	P	1.6
4	☐	125.000	110.533	980195.76	0.1199	P	0.4
5	☐	250.000	225.198	1959222.31	0.2442	P	1.4
6	☐	500.000	442.204	3745786.50	0.4795	P	1.2
7	☐	1000.000	1037.150	8485493.07	1.1245	A	1.3
8	☐			1005.62	0.0002	P	15.9

$$y = 0.0011 * x + 6.4433E-005$$

$$R = 0.9973$$

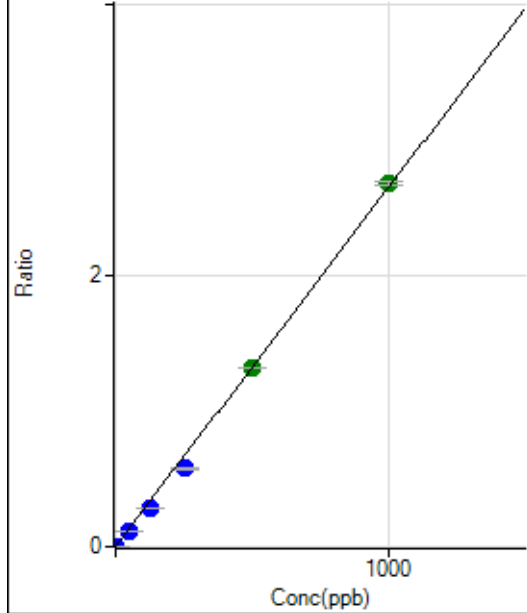
$$DL = 0.02182$$

$$BEC = 0.05943$$

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	1094.52	0.0001	P	2.7
2	☐	1.000	0.939	21592.96	0.0026	P	2.8
3	☐	50.000	44.348	958092.21	0.1176	P	1.3
4	☐	125.000	107.771	2334949.64	0.2856	P	1.1
5	☐	250.000	218.351	4641246.54	0.5785	P	1.5
6	☐	500.000	499.895	10346101.36	1.3243	A	0.3
7	☐	1000.000	1010.401	20197453.92	2.6766	A	0.9
8	☐			2561.42	0.0004	P	4.6

$$y = 0.0026 * x + 1.3349E-004$$

$$R = 0.9994$$

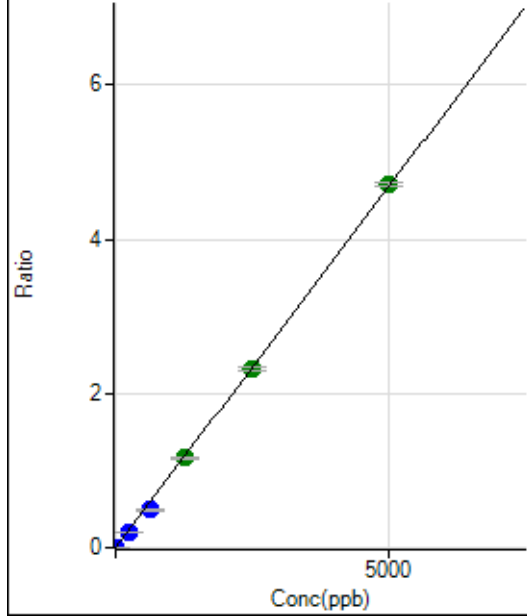
$$DL = 0.004016$$

$$BEC = 0.05039$$

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	2283.57	0.0003	P	2.5
2	☐	1.000	0.881	9088.43	0.0011	P	1.7
3	☐	250.000	214.023	1634629.23	0.2007	P	1.4
4	☐	625.000	520.108	3983163.17	0.4872	P	1.0
5	☐	1250.000	1245.707	9359760.28	1.1666	A	1.2
6	☐	2500.000	2477.892	18125406.89	2.3202	A	1.2
7	☐	5000.000	5027.038	35517391.07	4.7068	A	1.2
8	☐			20530.84	0.0034	P	2.3

$$y = 9.3623\text{E-}004 * x + 2.7857\text{E-}004$$

$$R = 0.9998$$

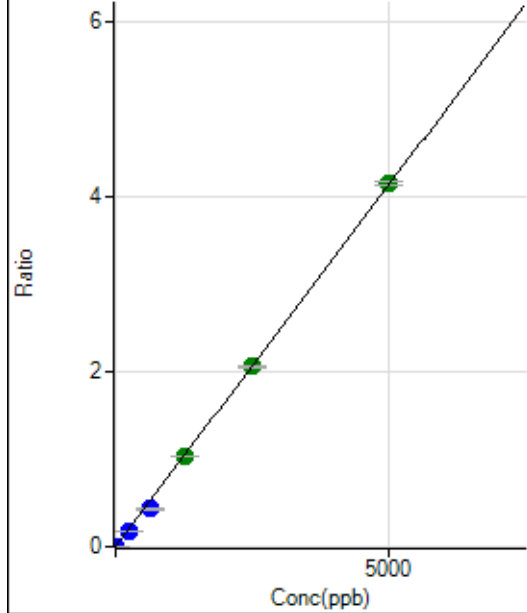
$$DL = 0.02227$$

$$BEC = 0.2975$$

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	1833.49	0.0002	P	2.5
2	☐	1.000	0.929	8163.73	0.0010	P	2.0
3	☐	250.000	213.234	1437307.05	0.1764	P	1.2
4	☐	625.000	519.562	3511777.05	0.4296	P	0.9
5	☐	1250.000	1250.063	8289451.46	1.0332	A	0.5
6	☐	2500.000	2493.206	16096835.55	2.0605	A	1.3
7	☐	5000.000	5018.399	31295264.13	4.1472	A	1.0
8	☐			18227.45	0.0031	P	1.7

$$y = 8.2636\text{E-}004 * x + 2.2366\text{E-}004$$

$$R = 0.9998$$

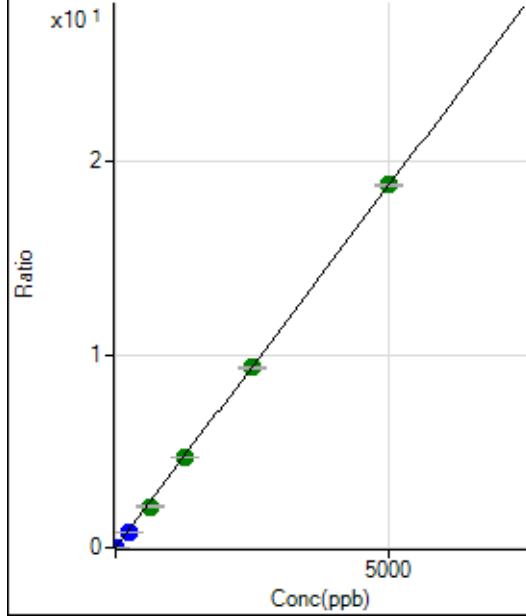
$$DL = 0.02064$$

$$BEC = 0.2707$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	8821.68	0.0011	P	3.6
2	☐	1.000	0.909	36948.41	0.0045	P	0.8
3	☐	250.000	213.584	6535295.36	0.8022	P	1.1
4	☐	625.000	569.578	17474036.62	2.1375	A	0.9
5	☐	1250.000	1247.098	37538487.18	4.6788	A	0.2
6	☐	2500.000	2495.513	73133378.49	9.3615	A	1.0
7	☐	5000.000	5011.717	141865286.5	18.7995	A	0.6
8	☐			82537.71	0.0138	P	2.2

$$y = 0.0038 * x + 0.0011$$

$$R = 0.9999$$

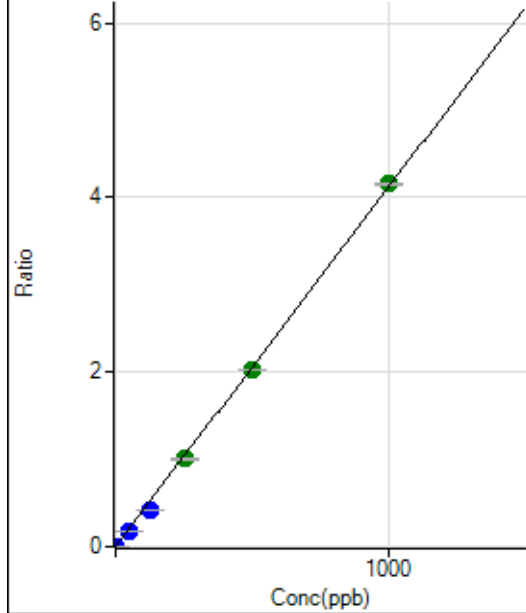
$$DL = 0.03131$$

$$BEC = 0.2869$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	170.37	0.0000	P	11.6
2	☐	1.000	-0.001	127.78	0.0000	P	4.9
3	☐	50.000	40.701	1365838.76	0.1677	P	1.6
4	☐	125.000	100.818	3395190.99	0.4153	P	1.3
5	☐	250.000	244.099	8066344.74	1.0054	A	0.8
6	☐	500.000	491.760	15824315.40	2.0255	A	0.2
7	☐	1000.000	1009.084	31366712.97	4.1563	A	0.6
8	☐			1250.09	0.0002	P	4.4

$$y = 0.0041 * x + 2.0799E-005$$

$$R = 0.9997$$

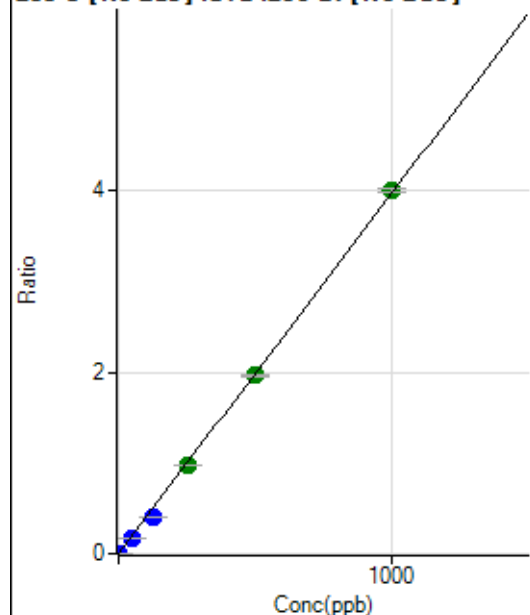
$$DL = 0.001751$$

$$BEC = 0.00505$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	33.33	0.0000	P	86.6
2	☐	1.000	0.846	27682.75	0.0034	P	1.5
3	☐	50.000	41.771	1349200.99	0.1656	P	1.9
4	☐	125.000	102.241	3314163.79	0.4054	P	1.5
5	☐	250.000	245.194	7799153.91	0.9722	A	1.3
6	☐	500.000	494.029	15302804.16	1.9588	A	0.1
7	☐	1000.000	1007.443	30145511.44	3.9944	A	1.1
8	☐			2561.43	0.0004	P	8.6

$$y = 0.0040 * x + 4.0588E-006$$

$$R = 0.9997$$

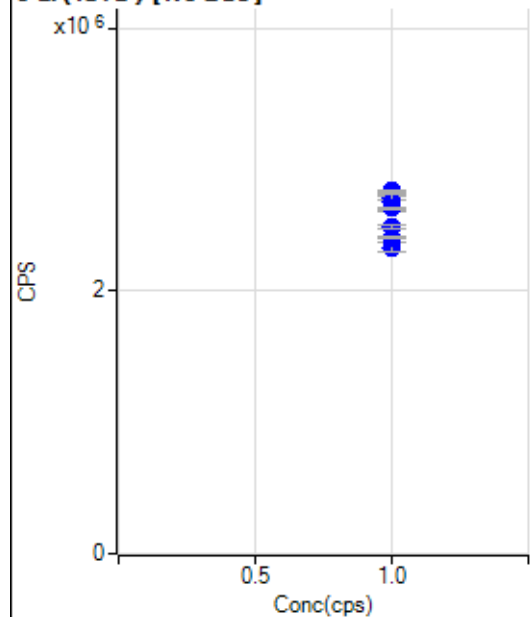
$$DL = 0.00266$$

$$BEC = 0.001024$$

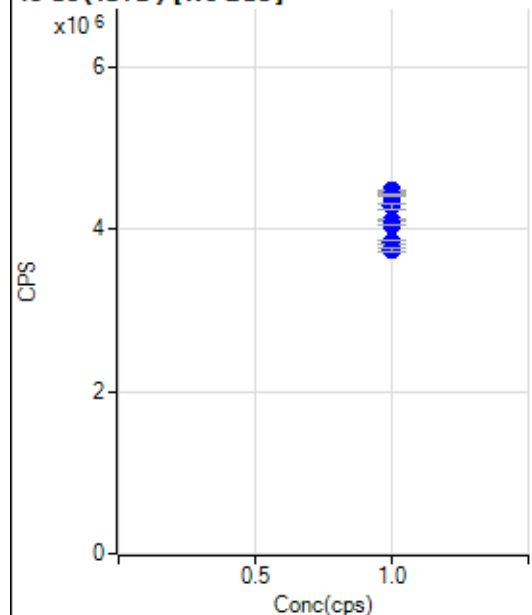
Weight: <None>

Min Conc: 0

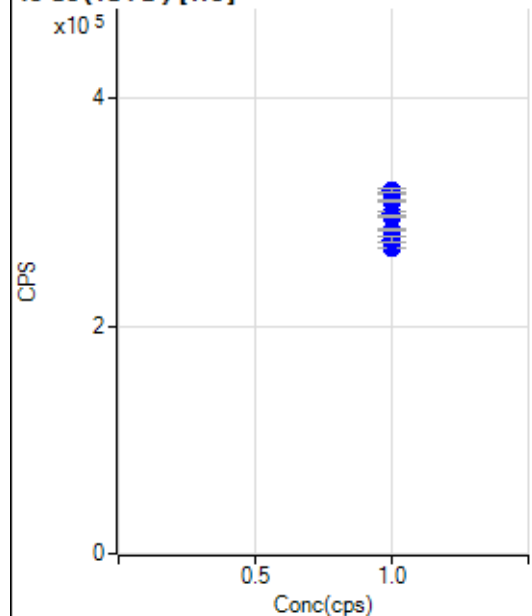
6 Li (ISTD) [No Gas]



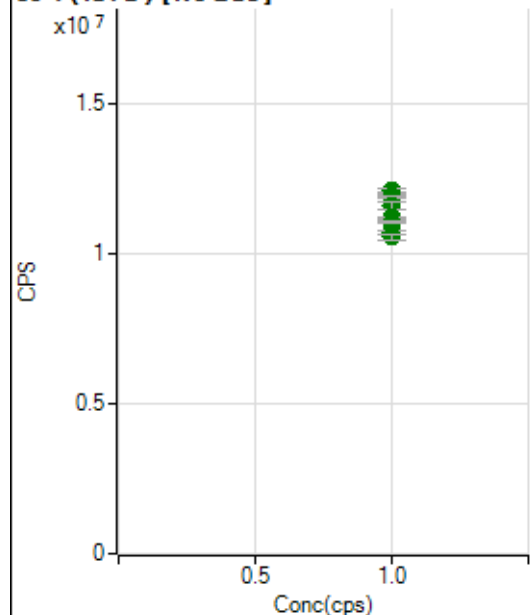
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2710665.65		P	1.1
2	☐	1.000		2763007.67		P	0.6
3	☐	1.000		2763009.26		P	0.7
4	☐	1.000		2674177.63		P	5.1
5	☐	1.000		2629733.05		P	0.7
6	☐	1.000		2487559.72		P	1.3
7	☐	1.000		2335052.87		P	3.4
8	☐	1.000		2404862.97		P	0.4

45 Sc (ISTD) [No Gas]

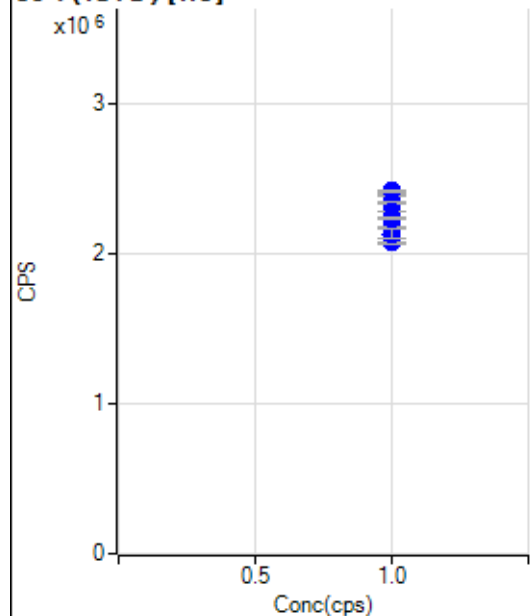
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4408024.31		P	0.4
2	☐	1.000		4473464.13		P	0.7
3	☐	1.000		4418309.97		P	0.6
4	☐	1.000		4285556.60		P	1.6
5	☐	1.000		4105244.97		P	0.6
6	☐	1.000		3843293.97		P	1.1
7	☐	1.000		3746639.63		P	0.9
8	☐	1.000		4050362.06		P	0.3

45 Sc (ISTD) [He]

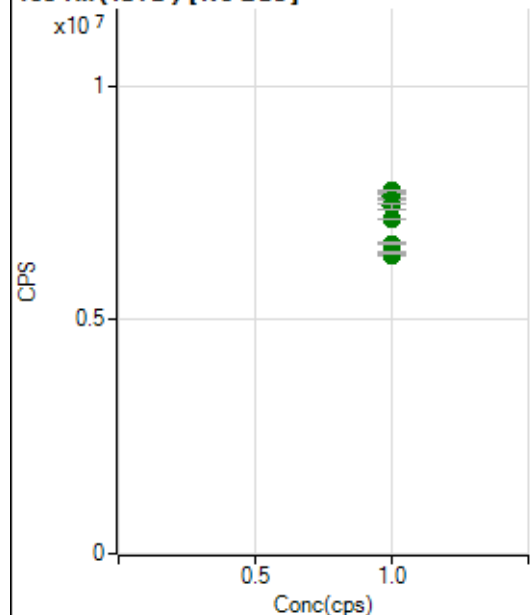
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		316382.79		P	0.4
2	☐	1.000		318937.73		P	1.1
3	☐	1.000		309614.06		P	0.6
4	☐	1.000		299423.26		P	0.9
5	☐	1.000		284398.78		P	0.4
6	☐	1.000		268495.81		P	0.4
7	☐	1.000		276266.57		P	1.9
8	☐	1.000		296474.33		P	0.4

89 Y (ISTD) [No Gas]

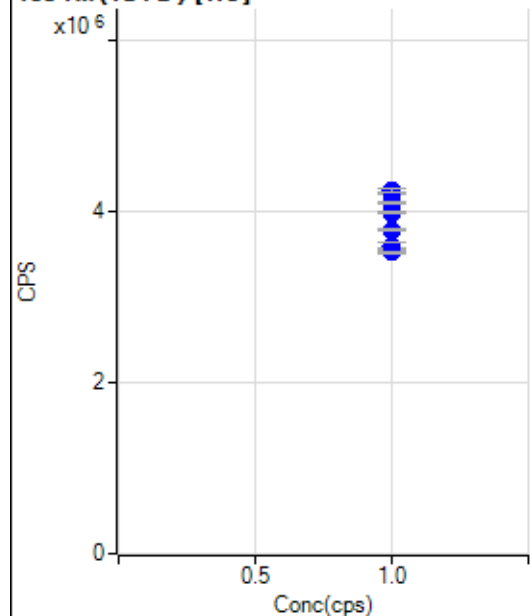
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		11987925.65		A	0.7
2	☐	1.000		12117270.93		A	0.9
3	☐	1.000		11918962.74		A	0.5
4	☐	1.000		11625999.27		A	1.7
5	☐	1.000		11219498.03		A	0.9
6	☐	1.000		10721113.38		A	1.0
7	☐	1.000		10572178.32		A	1.4
8	☐	1.000		11054179.56		A	0.7

89 Y (ISTD) [He]

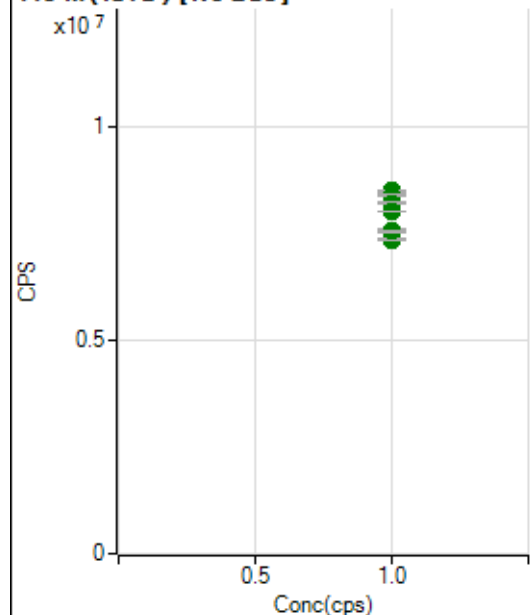
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2391783.99		P	0.2
2	☐	1.000		2420977.69		P	0.8
3	☐	1.000		2343187.90		P	0.5
4	☐	1.000		2282046.65		P	0.1
5	☐	1.000		2175080.23		P	0.2
6	☐	1.000		2077102.92		P	0.6
7	☐	1.000		2135225.39		P	3.1
8	☐	1.000		2243054.15		P	0.6

103 Rh (ISTD) [No Gas]

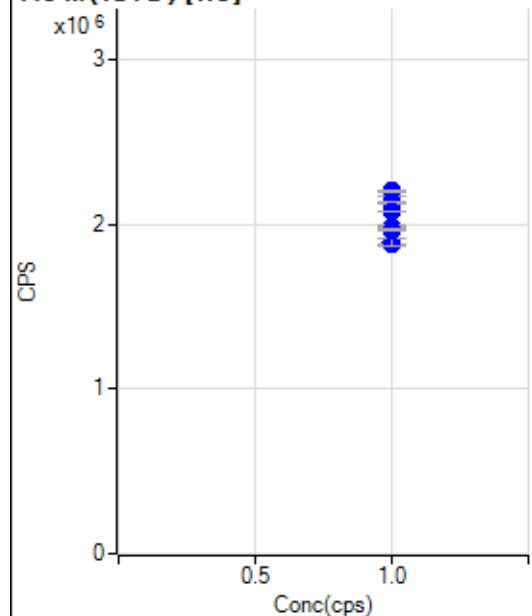
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7652243.08		A	1.0
2	☐	1.000		7751437.25		A	0.7
3	☐	1.000		7556717.46		A	0.4
4	☐	1.000		7422759.26		A	1.3
5	☐	1.000		7135861.70		A	0.1
6	☐	1.000		6634902.12		A	1.1
7	☐	1.000		6380154.62		A	0.7
8	☐	1.000		6417952.20		A	0.4

103 Rh (ISTD) [He]

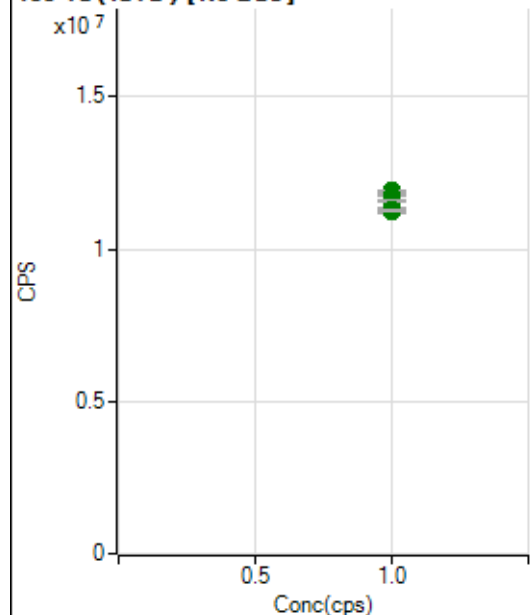
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4193689.94		P	0.2
2	☐	1.000		4236261.36		P	1.1
3	☐	1.000		4092533.48		P	0.5
4	☐	1.000		3983453.59		P	0.6
5	☐	1.000		3778960.19		P	0.6
6	☐	1.000		3566735.30		P	0.2
7	☐	1.000		3588042.17		P	2.4
8	☐	1.000		3516842.07		P	0.9

115 In (ISTD) [No Gas]

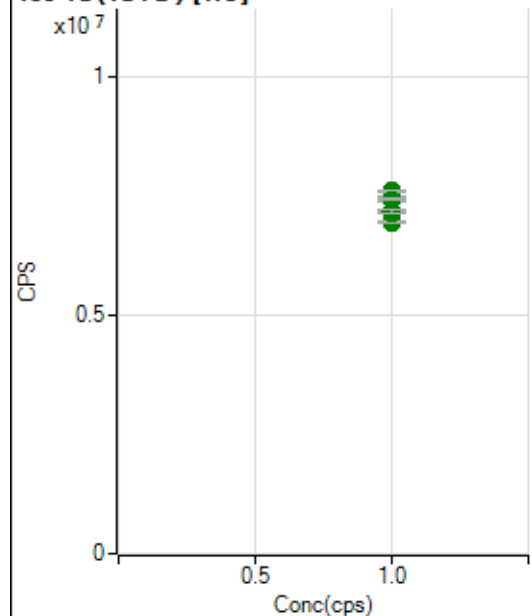
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		8408460.33		A	1.0
2	☐	1.000		8481214.41		A	0.3
3	☐	1.000		8362755.50		A	0.6
4	☐	1.000		8198600.94		A	0.6
5	☐	1.000		8006595.81		A	0.3
6	☐	1.000		7564911.91		A	0.3
7	☐	1.000		7338196.83		A	0.6
8	☐	1.000		7539599.46		A	0.7

115 In (ISTD) [He]

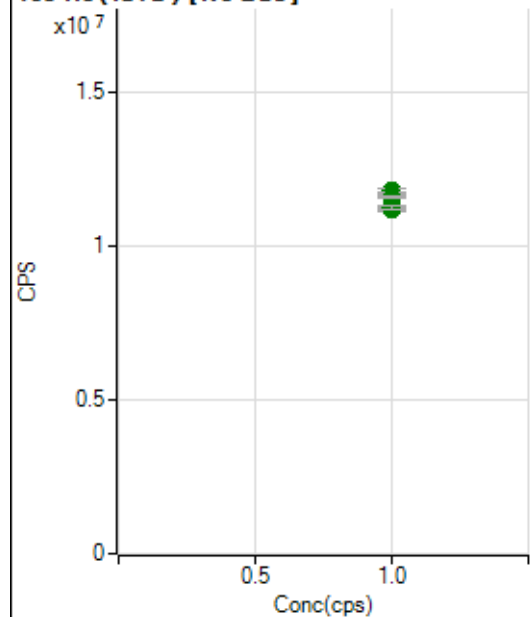
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2174712.57		P	0.2
2	☐	1.000		2204353.86		P	0.7
3	☐	1.000		2135342.64		P	0.3
4	☐	1.000		2083719.72		P	0.1
5	☐	1.000		1989503.50		P	0.8
6	☐	1.000		1881769.49		P	0.4
7	☐	1.000		1890795.06		P	2.3
8	☐	1.000		1966824.92		P	0.5

159 Tb (ISTD) [No Gas]

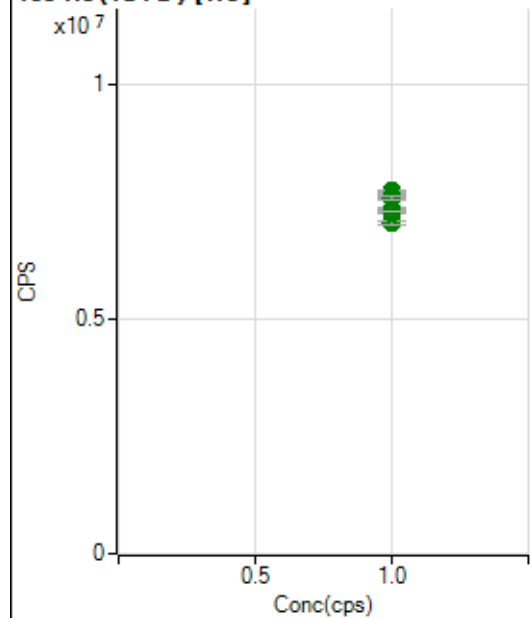
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		11773760.94		A	1.0
2	☐	1.000		11897720.38		A	0.5
3	☐	1.000		11915070.52		A	0.5
4	☐	1.000		11744218.44		A	0.4
5	☐	1.000		11590478.58		A	0.8
6	☐	1.000		11307183.58		A	0.6
7	☐	1.000		11216134.28		A	1.0
8	☐	1.000		11274749.55		A	1.0

159 Tb (ISTD) [He]

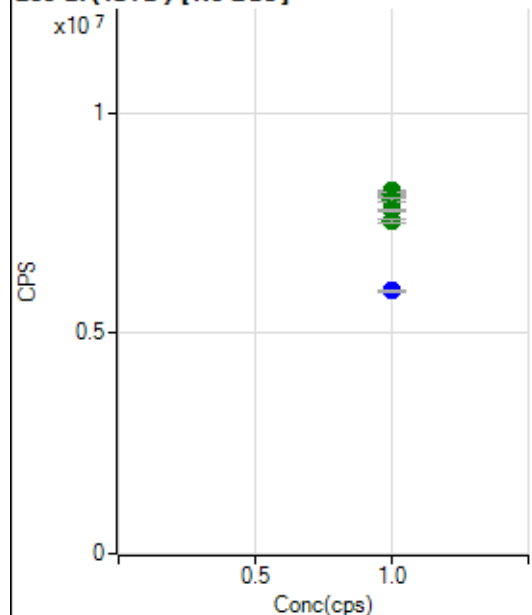
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7501353.29		A	0.2
2	☐	1.000		7599484.40		A	0.5
3	☐	1.000		7412283.29		A	1.1
4	☐	1.000		7421030.86		A	0.6
5	☐	1.000		7186987.46		A	0.2
6	☐	1.000		6940467.26		A	0.7
7	☐	1.000		7130556.35		A	0.5
8	☐	1.000		7163875.24		A	1.0

165 Ho (ISTD) [No Gas]

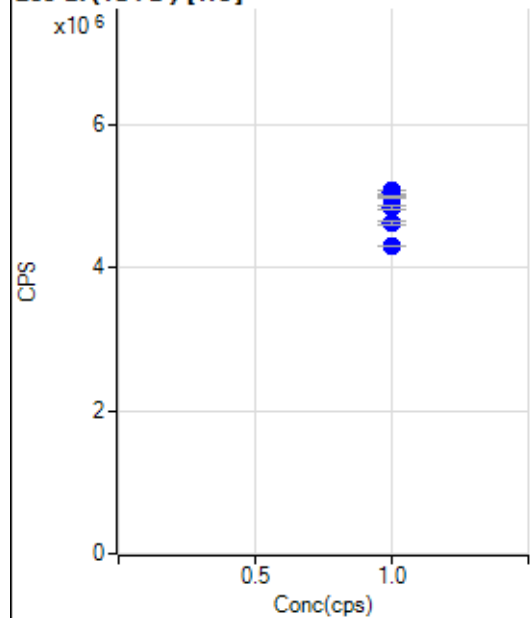
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		11623486.08		A	0.5
2	☐	1.000		11791602.88		A	1.0
3	☐	1.000		11705005.94		A	0.4
4	☐	1.000		11706086.36		A	0.4
5	☐	1.000		11586237.19		A	0.4
6	☐	1.000		11215251.78		A	0.9
7	☐	1.000		11183683.86		A	0.9
8	☐	1.000		11249285.80		A	0.7

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7626629.95		A	0.8
2	☐	1.000		7720553.36		A	0.7
3	☐	1.000		7599186.97		A	1.1
4	☐	1.000		7571725.16		A	0.7
5	☐	1.000		7334021.00		A	0.7
6	☐	1.000		7045846.28		A	0.8
7	☐	1.000		7242659.76		A	0.3
8	☐	1.000		7291726.35		A	0.3

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		8198560.57		A	1.1
2	☐	1.000		8238330.43		A	0.6
3	☐	1.000		8147188.98		A	1.0
4	☐	1.000		8174904.32		A	1.2
5	☐	1.000		8023045.37		A	0.9
6	☐	1.000		7812477.45		A	0.6
7	☐	1.000		7546518.15		A	1.2
8	☐	1.000		5973782.34		P	0.5

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5043786.49		P	0.9
2	☐	1.000		5068143.36		P	0.1
3	☐	1.000		5020301.87		P	0.6
4	☐	1.000		4982877.56		P	0.7
5	☐	1.000		4841112.74		P	0.9
6	☐	1.000		4617752.01		P	1.4
7	☐	1.000		4629853.09		P	1.2
8	☐	1.000		4293239.41		P	0.1

US EPA Tune Check Sample Report

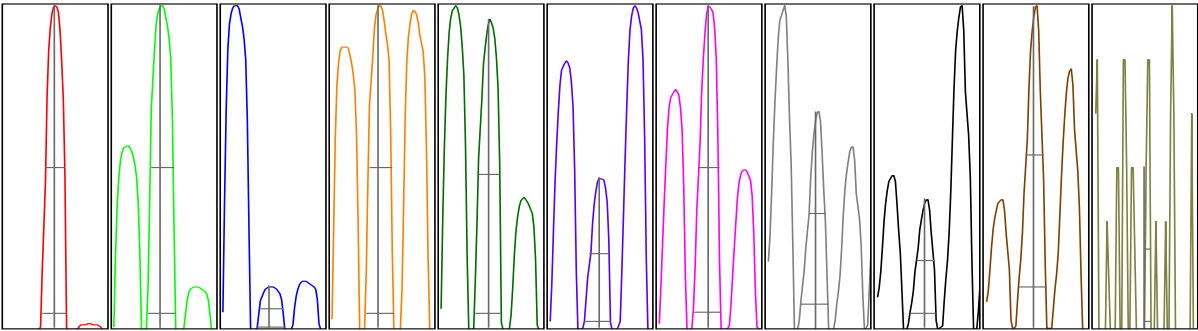
Batch Folder C:\Agilent\ICPMH\1\DATA\P7080121-EPA.b
Report Comment
Instrument Name G8403A JP14410463

[No Gas]

Mass	Count (Mean)	RSD% (Actual)	RSD% (Required)	RSD% (Flag)
9	6608	0.86	5.00	
24	83431	0.27	5.00	
25	11024	0.55	5.00	
26	12346	0.37	5.00	
59	15207	0.66	5.00	
113	9655	0.59	5.00	
115	28060	0.69	5.00	
206	14779	0.26	5.00	
207	13128	0.42	5.00	
208	31016	0.40	5.00	
220	0	108.33		

Mass	Replicate 1 Count	Replicate 2 Count	Replicate 3 Count	Replicate 4 Count	Replicate 5 Count
9	6625	6524	6580	6666	6647
24	83433	83365	83787	83177	83395
25	11131	10999	11003	10988	10999
26	12393	12360	12382	12303	12293
59	15252	15194	15351	15088	15151
113	9718	9654	9689	9646	9568
115	28231	28255	28100	27834	27881
206	14834	14784	14728	14775	14775
207	13121	13043	13127	13162	13187
208	31219	30958	30933	31047	30921
220	0	0	0	0	0

Integration Time [sec] = 0.1



Mass	Peak Height	Axis (Actual)	Axis (Required)	Axis (Flag)	Width-X% (Actual)	Width-X% (Required)	Width- X% (Flag)
9	11794	9.00	8.9 - 9.1		0.732	0.900	
24	132110	23.90	23.9 - 24.1		0.822	0.900	
25	17223	24.90	24.9 - 25.1		0.791	0.900	
26	19742	25.90	25.9 - 26.1		0.825	0.900	
59	25777	58.95	58.9 - 59.1		0.782	0.900	
113	17276	113.00	112.9 - 113.1		0.750	0.900	
115	49992	115.00	114.9 - 115.1		0.801	0.900	
206	28981	205.95	205.9 - 206.1		0.786	0.900	
207	24426	206.95	206.9 - 207.1		0.753	0.900	
208	60659	207.95	207.9 - 208.1		0.787	0.900	
220	0	220.00	-		0.196		

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

Tune Parameters

Plasma Paramters

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

Lenses Parameters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
Extract 1	0.0	V	Omega Lens	9.3	V	Deflect	13.4	V
Extract 2	-115.0	V	Cell Entrance	-30	V	Plate Bias	-35	V
Omega Bias	-70	V	Cell Exit	-50	V			

Cell Parameters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
Use Gas	No		OctP Bias	-8.0	V	Energy Discrimination		5.0 V
He Flow	0.0	mL/min	OctP RF	150	V			

[He]

Mass	Count (Mean)	RSD% (Actual)	RSD% (Required)
59	5116	0.61	
89	23556	0.62	
205	15650	0.82	

Mass	Replicate 1 Count	Replicate 2 Count	Replicate 3 Count	Replicate 4 Count	Replicate 5 Count
59	5110	5081	5135	5158	5095
89	23611	23537	23695	23621	23316
205	15658	15550	15823	15716	15503

Integration Time [sec] = 0.1

Tune Parameters

Plasma Paramters

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

Lenses Parameters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
Extract 1	0.0	V	Omega Lens	9.6	V	Deflect	2.0	V
Extract 2	-125.0	V	Cell Entrance	-40	V	Plate Bias	-60	V
Omega Bias	-80	V	Cell Exit	-60	V			

Cell Parameters

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