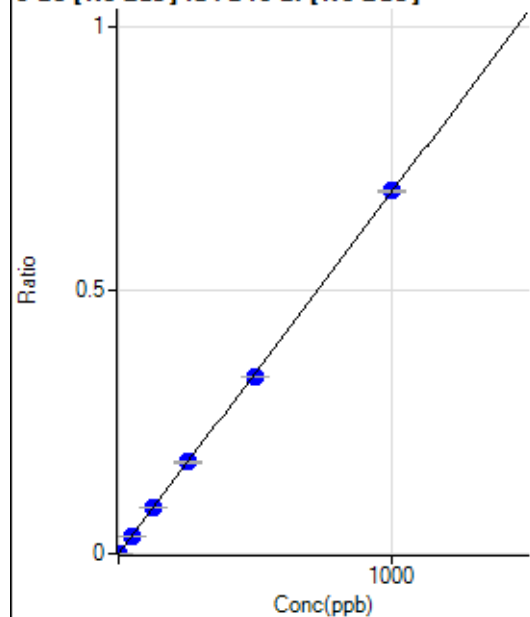


Batch Folder: C:\Agilent\ICPMH\1\DATA\P7110920MS2.b\
Analysis File: P7110920MS2.batch.bin
DA Date-Time: 2020-11-10 16:46:27
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	003CALB.d	S00	2020-11-09 14:13:13
2	005CALS.d	S02	2020-11-09 14:20:07
3	006CALS.d	S03	2020-11-09 14:23:34
4	007CALS.d	S04	2020-11-09 14:27:01
5	008CALS.d	S05	2020-11-09 14:30:26
6	009CALS.d	S06	2020-11-09 14:33:46
7	010CALS.d	S07	2020-11-09 14:37:02
8	013CALS.d	S08	2020-11-09 15:11:53

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	70.37	0.0000	P	11.9
2	☐	1.000	0.926	2259.47	0.0007	P	6.8
3	☐	50.000	49.707	118233.62	0.0341	P	0.7
4	☐	125.000	128.396	300256.42	0.0881	P	1.2
5	☐	250.000	253.825	580190.04	0.1741	P	1.1
6	☐	500.000	489.709	1078935.12	0.3359	P	0.7
7	☐	1000.000	1003.780	2147061.53	0.6885	P	0.7
8	☐			131.48	0.0000	P	19.7

$$y = 6.8593E-004 * x + 2.0376E-005$$

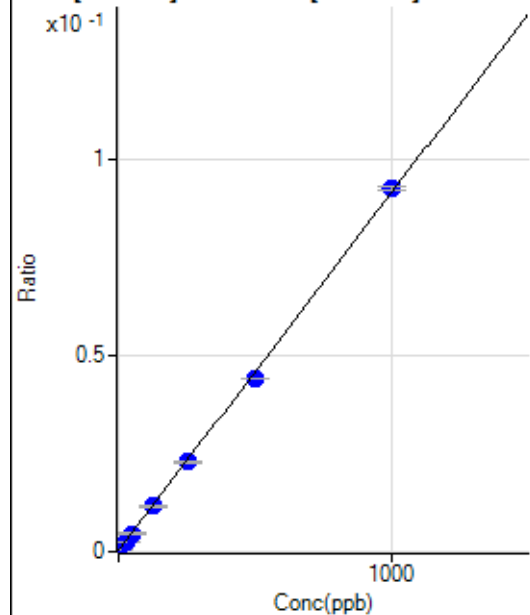
$$R = 0.9999$$

$$DL = 0.01063$$

$$BEC = 0.02971$$

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	1094.51	0.0003	P	8.0
2	☐	25.000	22.591	8188.52	0.0024	P	2.6
3	☐	50.000	47.274	16017.20	0.0046	P	4.0
4	☐	125.000	124.775	39802.87	0.0117	P	4.7
5	☐	250.000	247.522	76169.16	0.0229	P	3.1
6	☐	500.000	480.085	141460.76	0.0440	P	0.9
7	☐	1000.000	1010.802	288083.71	0.0924	P	1.2
8	☐			3517.16	0.0011	P	3.5

$$y = 9.1080E-005 * x + 3.1696E-004$$

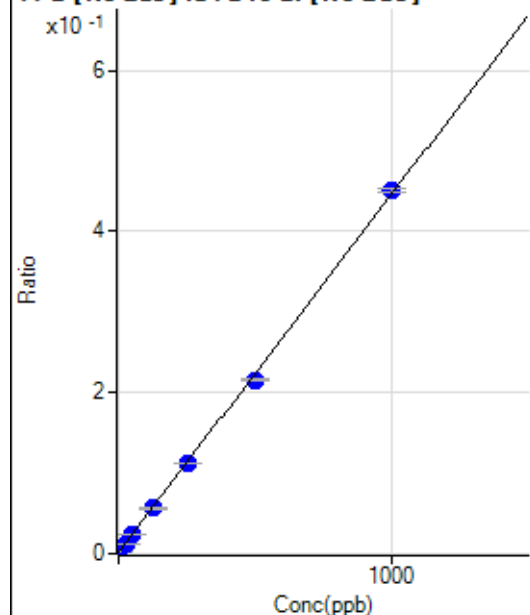
$$R = 0.9997$$

$$DL = 0.8369$$

$$BEC = 3.48$$

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	6137.50	0.0018	P	7.6
2	☐	25.000	22.281	40262.42	0.0117	P	1.2
3	☐	50.000	47.805	79751.21	0.0230	P	0.4
4	☐	125.000	124.095	193902.91	0.0569	P	3.6
5	☐	250.000	249.734	375558.02	0.1127	P	0.2
6	☐	500.000	481.161	692192.36	0.2155	P	1.6
7	☐	1000.000	1009.777	1404272.47	0.4503	P	0.9
8	☐			17179.47	0.0055	P	2.8

$$y = 4.4420\text{E-}004 * x + 0.0018$$

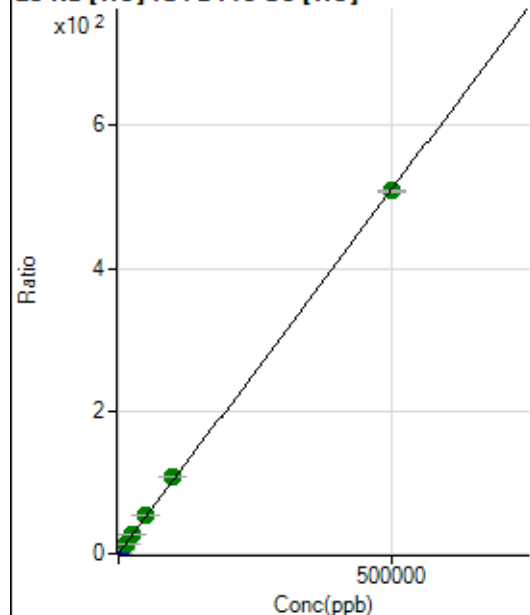
$$R = 0.9997$$

$$DL = 0.9171$$

$$BEC = 4.001$$

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	21273.81	0.0414	P	2.7
2	☐	500.000	540.289	299693.20	0.5926	P	0.5
3	☐	5000.000	5710.292	2876555.95	5.8664	P	0.5
4	☐	12500.000	13479.013	6685988.30	13.7911	A	1.5
5	☐	25000.000	26647.659	13041144.82	27.2242	A	0.8
6	☐	50000.000	52074.679	24556389.44	53.1619	A	0.5
7	☐	100000.00	106537.56	50785696.27	108.7185	A	0.6
8	☐	500000.00	498371.01	251562244.5	508.4207	A	0.8

$$y = 0.0010 * x + 0.0414$$

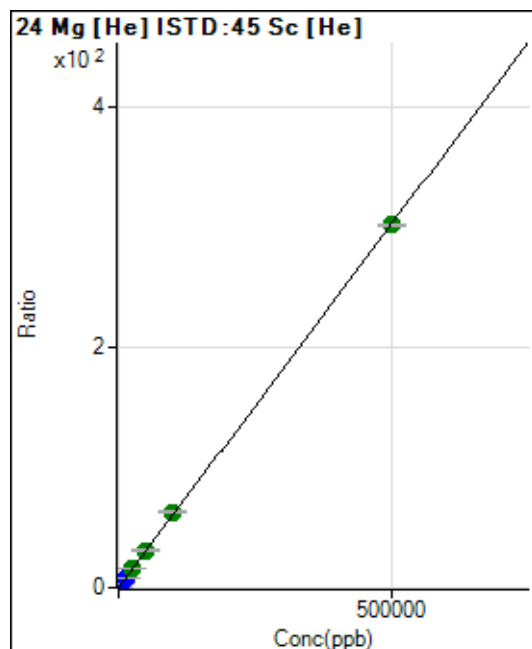
$$R = 0.9999$$

$$DL = 3.266$$

$$BEC = 40.61$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	238.90	0.0005	P	5.3
2	☐	500.000	519.554	159433.07	0.3152	P	0.3
3	☐	5000.000	5554.074	1650206.78	3.3654	P	0.6
4	☐	12500.000	13869.923	4073984.25	8.4035	P	3.4
5	☐	25000.000	26229.788	7611866.06	15.8917	A	1.5
6	☐	50000.000	51370.499	14376118.73	31.1232	A	0.8
7	☐	100000.00	104296.81	29517491.63	63.1884	A	0.3
8	☐	500000.00	498902.28	149553706.1	302.2592	A	0.3

$$y = 6.0585E-004 * x + 4.6522E-004$$

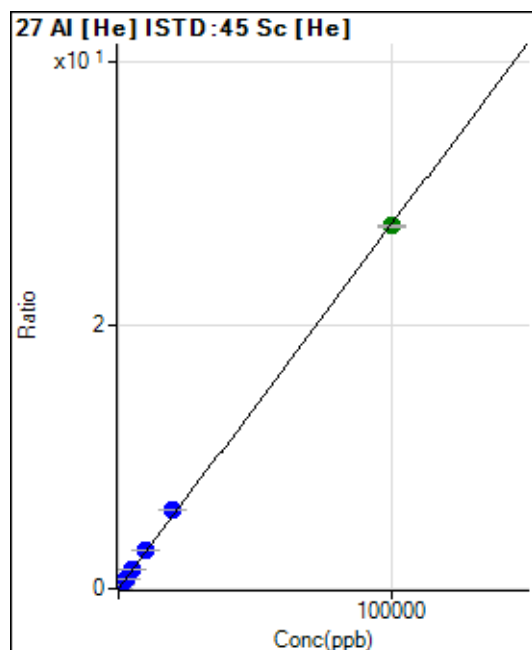
$$R = 1.0000$$

$$DL = 0.1219$$

$$BEC = 0.7679$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	113.89	0.0002	P	23.4
2	☐	20.000	21.136	3067.07	0.0061	P	9.0
3	☐	1000.000	1086.932	147422.11	0.3006	P	0.3
4	☐	2500.000	2722.833	364957.38	0.7528	P	4.1
5	☐	5000.000	5448.821	721473.04	1.5063	P	1.6
6	☐	10000.000	10697.707	1365901.17	2.9571	P	0.3
7	☐	20000.000	21551.922	2782767.43	5.9572	P	0.7
8	☐	100000.00	99590.964	13620142.49	27.5271	A	0.5

$$y = 2.7640E-004 * x + 2.2174E-004$$

$$R = 0.9999$$

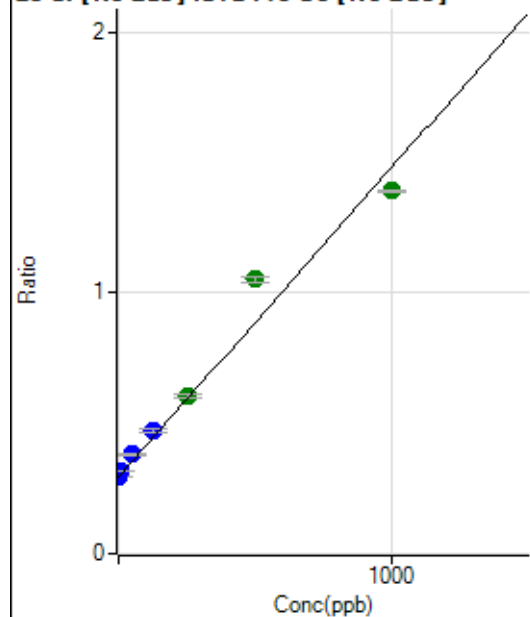
$$DL = 0.5636$$

$$BEC = 0.8023$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	2721362.84	0.2948	P	0.4
2	☐	10.000	16.975	2862124.61	0.3150	P	0.1
3	☐	50.000	72.088	3441500.99	0.3804	P	0.5
4	☐	125.000	148.936	4194495.10	0.4716	P	2.3
5	☐	250.000	261.414	5317170.69	0.6051	A	1.4
6	☐	500.000	637.974	9047817.65	1.0522	A	1.7
7	☐	1000.000	923.994	11793742.62	1.3917	A	0.9
8	☐			3373875.16	0.3874	P	0.7

$$y = 0.0012 * x + 0.2948$$

$$R = 0.9851$$

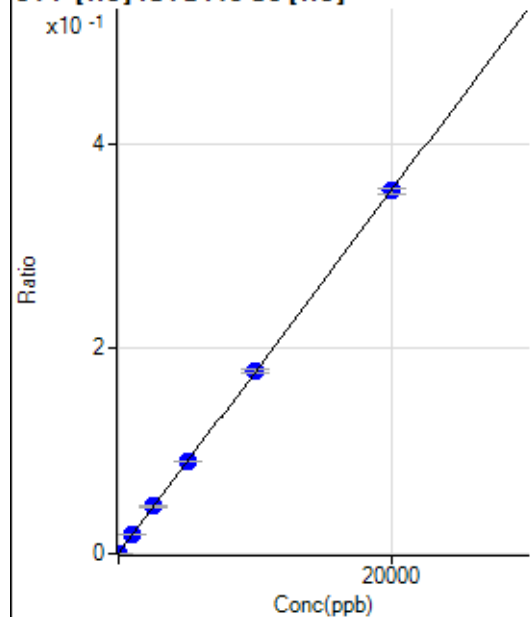
$$DL = 3.339$$

$$BEC = 248.3$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	1.593	141.67	0.0003	P	6.3
2	☐	0.000	-1.593	111.12	0.0002	P	18.3
3	☐	1000.000	1026.713	9033.47	0.0184	P	2.0
4	☐	2500.000	2605.325	22481.32	0.0464	P	2.7
5	☐	5000.000	5076.489	43162.79	0.0901	P	0.5
6	☐	10000.000	10001.463	81890.56	0.1773	P	2.0
7	☐	20000.000	19965.645	165198.44	0.3537	P	1.8
8	☐			241.68	0.0005	P	15.7

$$y = 1.7701E-005 * x + 2.4775E-004$$

$$R = 1.0000$$

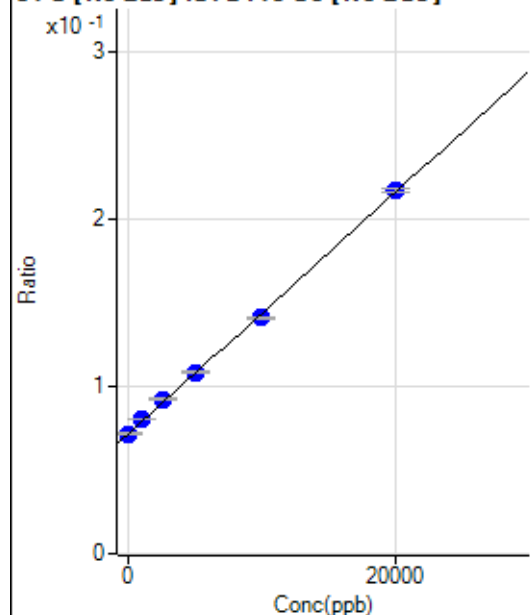
$$DL = 4.871$$

$$BEC = 14$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	1.291	663184.65	0.0718	P	0.8
2	☐	0.000	-1.291	652674.48	0.0718	P	1.0
3	☐	1000.000	1162.736	725695.64	0.0802	P	0.7
4	☐	2500.000	2821.046	819678.94	0.0922	P	1.6
5	☐	5000.000	5069.582	952049.54	0.1084	P	1.5
6	☐	10000.000	9589.101	1211645.51	0.1409	P	0.6
7	☐	20000.000	20139.786	1838078.86	0.2169	P	1.2
8	☐			608900.33	0.0699	P	1.3

$$y = 7.2037\text{E-}006 * x + 0.0718$$

R = 0.9995

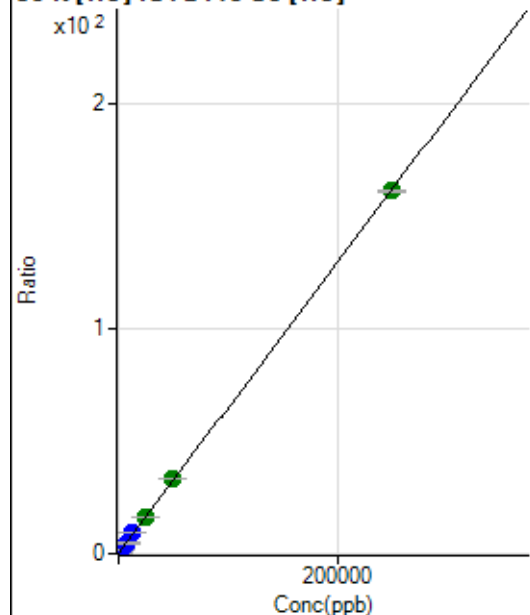
DL = 271.4

BEC = 9972

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	59656.22	0.1162	P	0.8
2	☐	500.000	513.239	226251.93	0.4474	P	1.0
3	☐	2500.000	2749.280	926907.82	1.8903	P	0.1
4	☐	6250.000	7059.697	2264879.84	4.6718	P	1.4
5	☐	12500.000	13856.639	4338583.73	9.0579	P	1.5
6	☐	25000.000	25374.634	7617027.95	16.4906	A	0.6
7	☐	50000.000	51633.749	15618807.47	33.4357	A	0.7
8	☐	250000.00	249545.19	79737383.73	161.1491	A	0.4

$$y = 6.4531\text{E-}004 * x + 0.1162$$

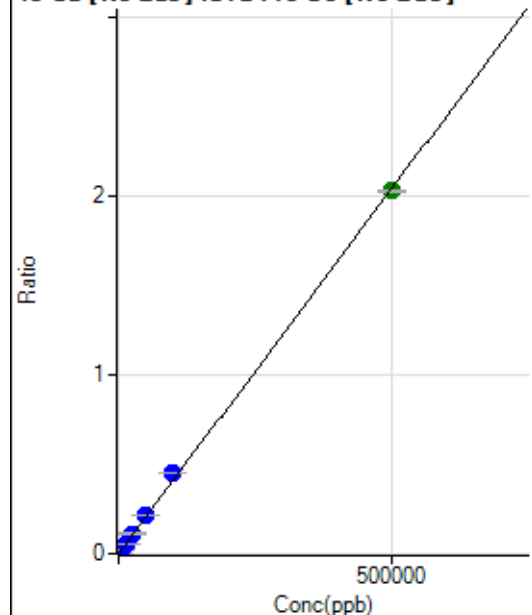
R = 1.0000

DL = 4.428

BEC = 180

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	294.46	0.0000	P	24.9
2	☐	500.000	517.949	19507.80	0.0021	P	1.5
3	☐	5000.000	5403.347	199888.93	0.0221	P	2.0
4	☐	12500.000	13926.071	506010.17	0.0569	P	1.5
5	☐	25000.000	27615.655	990959.19	0.1128	P	1.6
6	☐	50000.000	53358.163	1873516.88	0.2179	P	0.7
7	☐	100000.00	110420.58	3820540.75	0.4509	P	0.8
8	☐	500000.00	497409.58	17687961.85	2.0309	A	0.7

$$y = 4.0828\text{E-}006 * x + 3.1940\text{E-}005$$

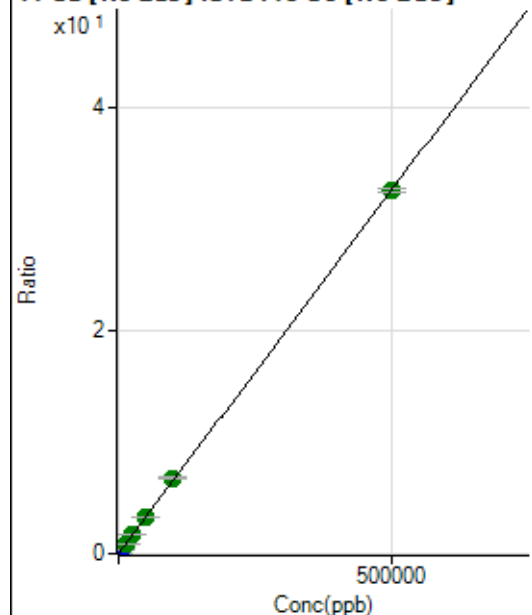
$$R = 0.9998$$

$$DL = 5.832$$

$$BEC = 7.823$$

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	18990.35	0.0021	P	1.2
2	☐	500.000	510.806	320999.00	0.0353	P	0.6
3	☐	5000.000	5383.970	3190946.66	0.3527	P	0.0
4	☐	12500.000	12812.336	7440284.11	0.8365	A	1.2
5	☐	25000.000	25646.491	14694276.72	1.6723	A	1.0
6	☐	50000.000	49907.982	27965545.07	3.2523	A	0.7
7	☐	100000.00	104085.39	57457995.73	6.7806	A	0.8
8	☐	500000.00	499148.13	283136256.3	32.5088	A	1.2

$$y = 6.5124\text{E-}005 * x + 0.0021$$

$$R = 1.0000$$

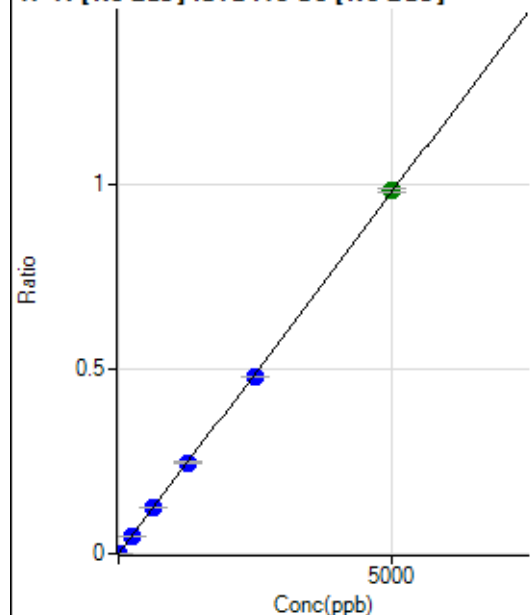
$$DL = 1.13$$

$$BEC = 31.59$$

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	241.68	0.0000	P	25.4
2	☐	5.000	4.686	8563.80	0.0009	P	1.2
3	☐	250.000	244.874	433458.46	0.0479	P	0.8
4	☐	625.000	634.740	1104147.34	0.1241	P	2.2
5	☐	1250.000	1258.043	2161736.14	0.2460	P	1.7
6	☐	2500.000	2443.973	4109605.99	0.4779	P	0.3
7	☐	5000.000	5025.042	8326679.87	0.9826	A	1.0
8	☐			1072.29	0.0001	P	2.9

$$y = 1.9554\text{E-}004 * x + 2.6158\text{E-}005$$

$$R = 0.9999$$

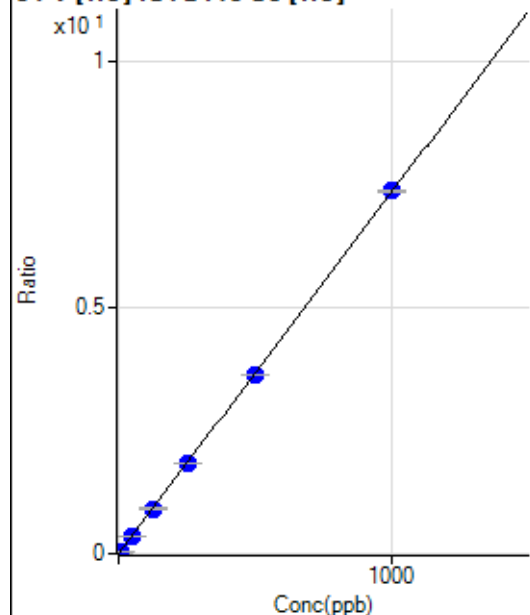
$$DL = 0.1021$$

$$BEC = 0.1338$$

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	7.78	0.0000	P	65.7
2	☐	5.000	4.740	17643.98	0.0349	P	1.6
3	☐	50.000	48.893	176388.21	0.3597	P	0.7
4	☐	125.000	124.217	443024.79	0.9138	P	3.9
5	☐	250.000	250.384	882276.24	1.8420	P	1.8
6	☐	500.000	492.722	1674349.47	3.6248	P	0.2
7	☐	1000.000	1003.698	3449287.24	7.3840	P	0.5
8	☐			392.23	0.0008	P	5.1

$$y = 0.0074 * x + 1.5169\text{E-}005$$

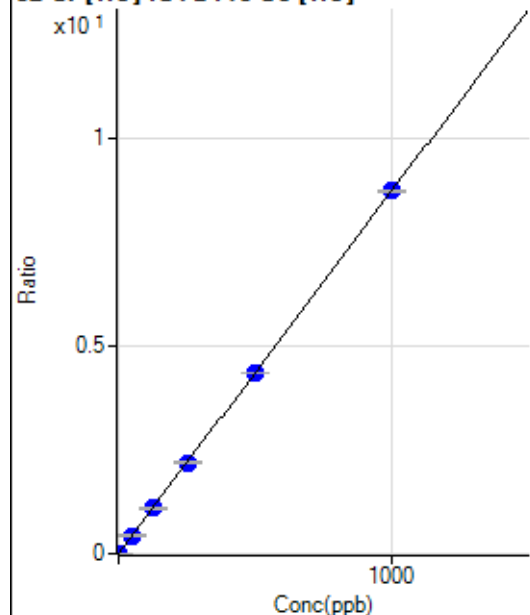
$$R = 1.0000$$

$$DL = 0.004064$$

$$BEC = 0.002062$$

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	1358.97	0.0026	P	4.1
2	☐	2.000	1.894	9693.25	0.0192	P	1.9
3	☐	50.000	49.910	214756.48	0.4380	P	1.5
4	☐	125.000	124.855	529228.84	1.0916	P	4.3
5	☐	250.000	251.432	1051660.30	2.1957	P	1.7
6	☐	500.000	497.192	2004294.96	4.3392	P	0.5
7	☐	1000.000	1001.069	4079956.95	8.7340	P	0.3
8	☐			31006.97	0.0627	P	0.2

$$y = 0.0087 * x + 0.0026$$

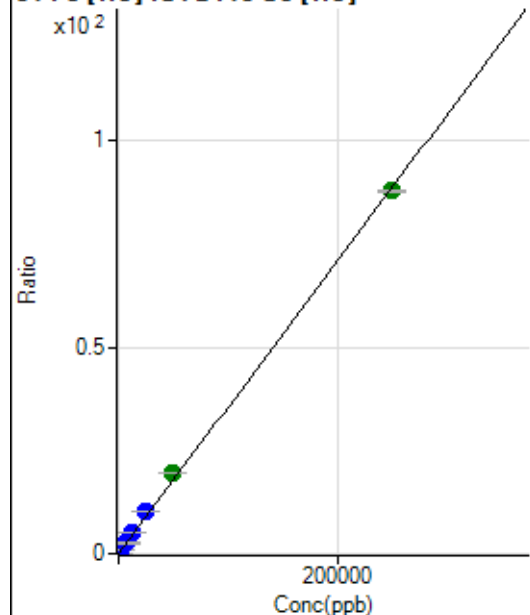
$$R = 1.0000$$

$$DL = 0.0377$$

$$BEC = 0.3035$$

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	1508.30	0.0029	P	13.6
2	☐	50.000	55.422	11402.84	0.0225	P	1.6
3	☐	2500.000	2882.870	501658.41	1.0231	P	0.8
4	☐	6250.000	7258.424	1246602.99	2.5714	P	4.6
5	☐	12500.000	14618.071	2479057.95	5.1757	P	1.5
6	☐	25000.000	28632.644	4681394.35	10.1349	P	0.3
7	☐	50000.000	55693.826	9207570.16	19.7108	A	0.6
8	☐	250000.00	248363.02	43485909.80	87.8888	A	0.4

$$y = 3.5386E-004 * x + 0.0029$$

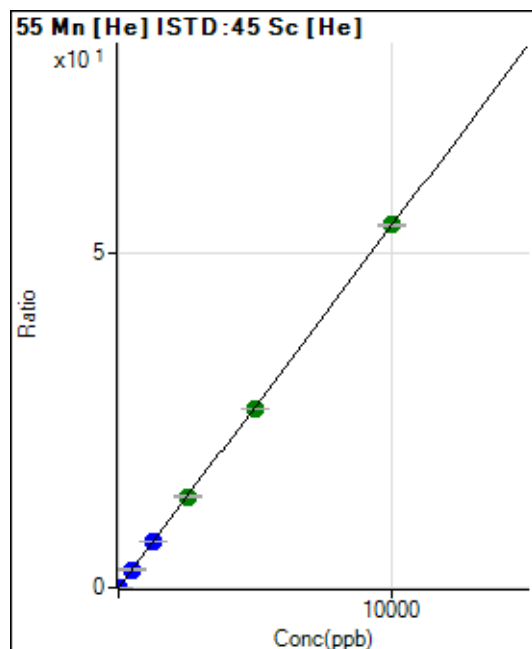
$$R = 0.9997$$

$$DL = 3.395$$

$$BEC = 8.297$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	101.11	0.0002	P	21.9
2	☐	1.000	1.051	2979.22	0.0059	P	1.8
3	☐	500.000	504.479	1339637.76	2.7320	P	0.8
4	☐	1250.000	1273.464	3343186.58	6.8962	P	3.7
5	☐	2500.000	2503.896	6493956.43	13.5592	A	2.6
6	☐	5000.000	4941.828	12361293.98	26.7611	A	0.1
7	☐	10000.000	10024.955	25359249.34	54.2871	A	0.4
8	☐			23481.03	0.0475	P	1.2

$$y = 0.0054 * x + 1.9687E-004$$

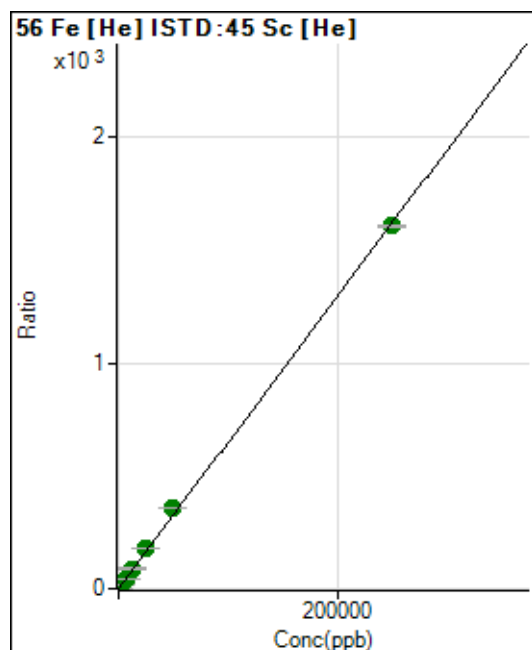
$$R = 1.0000$$

$$DL = 0.02387$$

$$BEC = 0.03636$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	9936.83	0.0194	P	3.1
2	☐	50.000	55.044	189588.87	0.3749	P	1.2
3	☐	2500.000	2709.066	8589244.17	17.5170	A	0.7
4	☐	6250.000	6802.206	21307161.35	43.9542	A	5.1
5	☐	12500.000	13790.688	42670712.99	89.0923	A	2.2
6	☐	25000.000	27320.293	81515937.93	176.4789	A	0.6
7	☐	50000.000	55422.172	167227140.7	357.9866	A	0.4
8	☐	250000.00	248603.10	794503602.9	1,605.726	A	0.7

$$y = 0.0065 * x + 0.0194$$

$$R = 0.9997$$

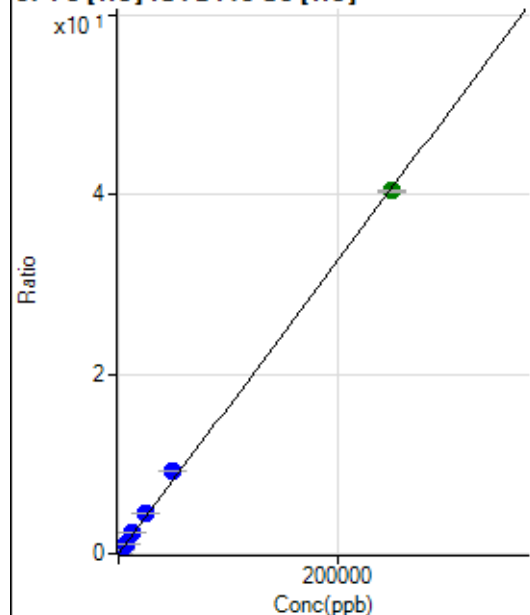
$$DL = 0.2799$$

$$BEC = 2.996$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	327.79	0.0006	P	25.7
2	☐	50.000	56.057	4941.64	0.0098	P	3.3
3	☐	2500.000	2811.910	224885.98	0.4586	P	1.1
4	☐	6250.000	7038.276	556069.48	1.1470	P	4.9
5	☐	12500.000	14233.139	1110698.41	2.3189	P	1.9
6	☐	25000.000	28013.142	2107878.26	4.5634	P	0.7
7	☐	50000.000	56263.286	4281151.37	9.1648	P	0.6
8	☐	250000.00	248336.54	20013864.80	40.4496	A	0.4

$$y = 1.6288\text{E-}004 * x + 6.3888\text{E-}004$$

$$R = 0.9996$$

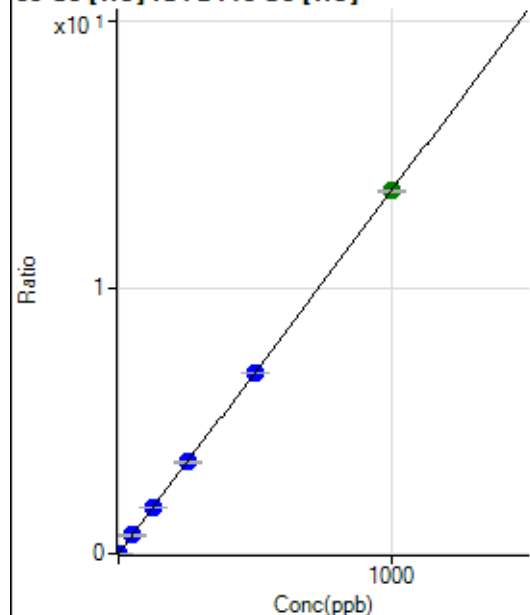
$$DL = 3.026$$

$$BEC = 3.922$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	66.67	0.0001	P	10.4
2	☐	1.000	0.949	6607.10	0.0131	P	3.3
3	☐	50.000	50.544	338043.89	0.6894	P	1.3
4	☐	125.000	127.626	843814.41	1.7406	P	3.3
5	☐	250.000	253.903	1658462.60	3.4626	P	1.8
6	☐	500.000	498.167	3137997.59	6.7936	P	0.5
7	☐	1000.000	999.585	6367729.14	13.6314	A	0.2
8	☐			11715.86	0.0237	P	1.9

$$y = 0.0136 * x + 1.2987\text{E-}004$$

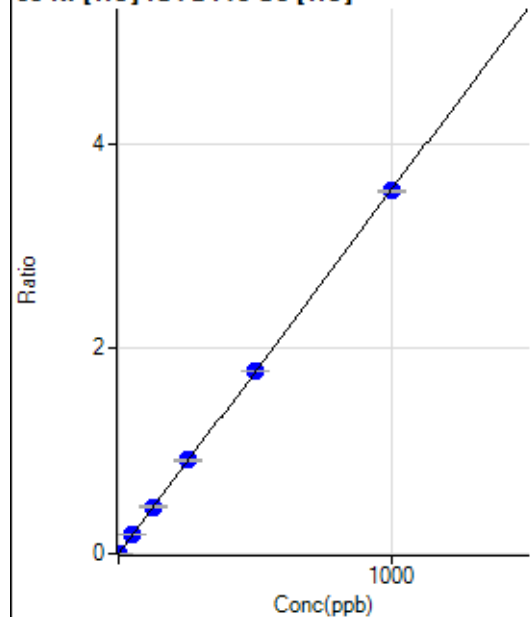
$$R = 1.0000$$

$$DL = 0.002975$$

$$BEC = 0.009523$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	103.34	0.0002	P	29.8
2	☐	1.000	1.015	1923.48	0.0038	P	2.7
3	☐	50.000	51.080	89019.84	0.1815	P	0.3
4	☐	125.000	129.425	222839.81	0.4597	P	3.9
5	☐	250.000	256.330	435969.25	0.9102	P	1.6
6	☐	500.000	501.403	822310.44	1.7802	P	0.2
7	☐	1000.000	997.109	1653677.63	3.5401	P	0.5
8	☐			9658.81	0.0195	P	2.1

$$y = 0.0036 * x + 2.0129E-004$$

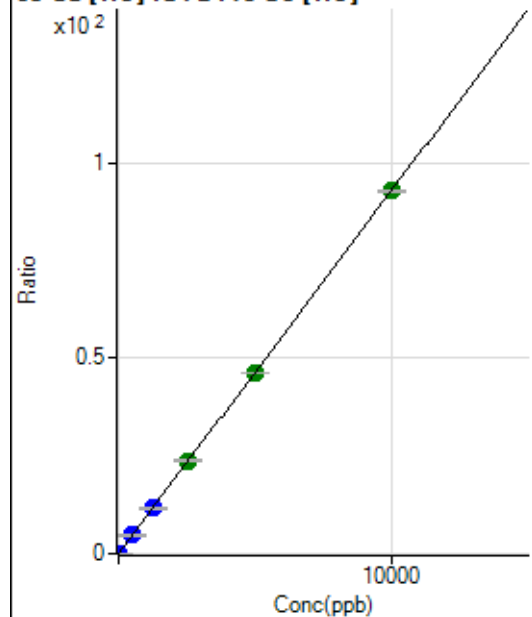
$$R = 1.0000$$

$$DL = 0.05062$$

$$BEC = 0.0567$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1173.40	0.0023	P	10.4
2	☐	2.000	2.372	12310.80	0.0243	P	0.2
3	☐	500.000	503.630	2297931.81	4.6864	P	0.8
4	☐	1250.000	1262.710	5694405.82	11.7463	P	3.7
5	☐	2500.000	2554.150	11379730.52	23.7575	A	1.4
6	☐	5000.000	4984.896	21416418.57	46.3650	A	0.7
7	☐	10000.000	9992.244	43413741.58	92.9365	A	0.4
8	☐			13180.45	0.0266	P	2.1

$$y = 0.0093 * x + 0.0023$$

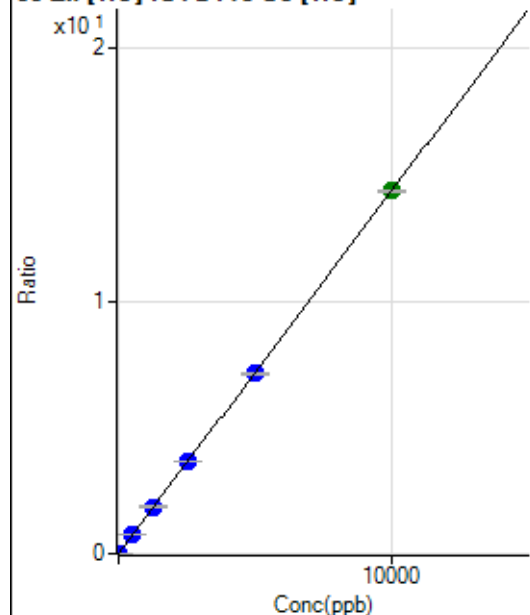
$$R = 1.0000$$

$$DL = 0.07673$$

$$BEC = 0.2456$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	382.23	0.0007	P	13.1
2	☐	2.000	2.152	1939.04	0.0038	P	1.4
3	☐	500.000	507.510	357563.70	0.7292	P	0.5
4	☐	1250.000	1276.881	888846.27	1.8335	P	3.7
5	☐	2500.000	2545.266	1750184.28	3.6541	P	1.9
6	☐	5000.000	4965.021	3292142.97	7.1273	P	0.4
7	☐	10000.000	10002.437	6707025.04	14.3578	A	0.6
8	☐			16418.17	0.0332	P	1.1

$$y = 0.0014 * x + 7.4469E-004$$

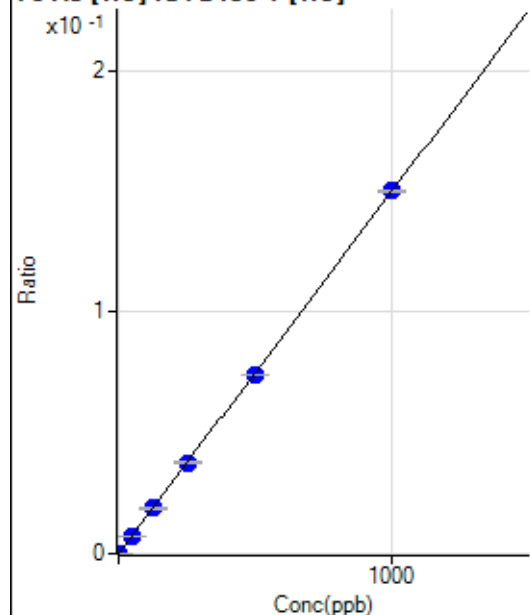
$$R = 1.0000$$

$$DL = 0.2036$$

$$BEC = 0.5188$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	20.99	0.0000	P	43.4
2	☐	1.000	0.952	475.32	0.0001	P	4.3
3	☐	50.000	49.511	23142.44	0.0074	P	1.6
4	☐	125.000	125.954	57923.75	0.0189	P	2.8
5	☐	250.000	252.341	115370.25	0.0378	P	2.2
6	☐	500.000	493.318	219690.35	0.0739	P	0.2
7	☐	1000.000	1002.661	448774.92	0.1502	P	0.3
8	☐			153.09	0.0001	P	4.6

$$y = 1.4981E-004 * x + 6.5077E-006$$

$$R = 1.0000$$

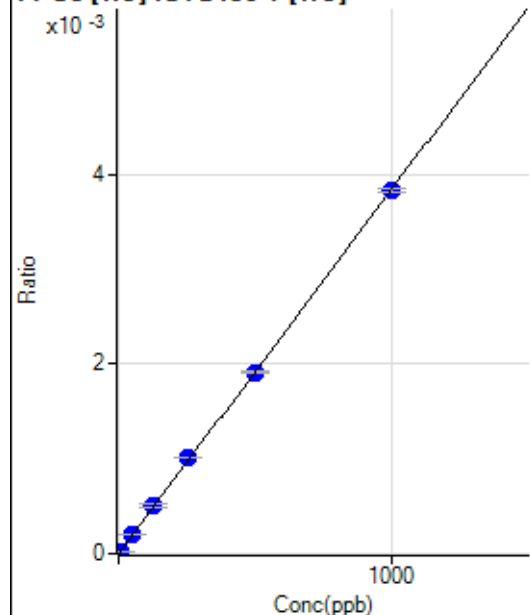
$$DL = 0.05656$$

$$BEC = 0.04344$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	0.00	0.0000	P	
2	☐	5.000	5.085	62.22	0.0000	P	27.6
3	☐	50.000	52.657	630.02	0.0002	P	3.6
4	☐	125.000	133.103	1567.88	0.0005	P	9.2
5	☐	250.000	262.772	3078.13	0.0010	P	0.2
6	☐	500.000	498.465	5686.72	0.0019	P	1.3
7	☐	1000.000	996.428	11425.70	0.0038	P	1.0
8	☐			6.67	0.0000	P	50.2

$$y = 3.8380\text{E-}006 * x + 0.0000\text{E+}000$$

$$R = 0.9999$$

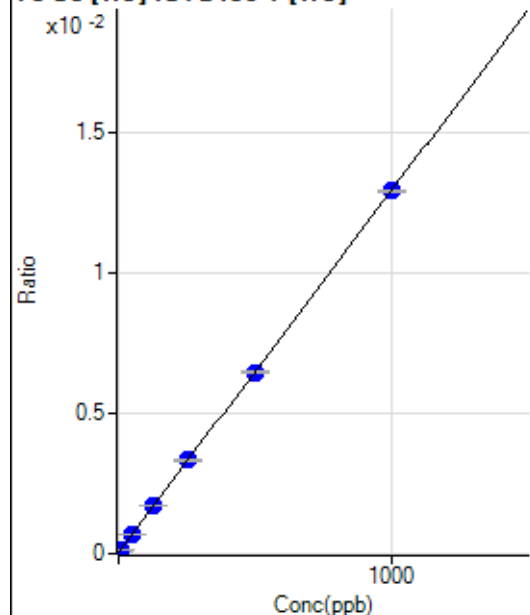
$$DL = 0$$

$$BEC = 0$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	154.94	0.0000	P	6.1
2	☐	5.000	5.291	371.00	0.0001	P	10.1
3	☐	50.000	48.506	2100.78	0.0007	P	4.4
4	☐	125.000	128.183	5223.19	0.0017	P	1.9
5	☐	250.000	255.145	10194.35	0.0033	P	1.5
6	☐	500.000	498.399	19257.23	0.0065	P	0.9
7	☐	1000.000	999.190	38659.90	0.0129	P	0.4
8	☐			177.16	0.0001	P	13.1

$$y = 1.2902\text{E-}005 * x + 4.8061\text{E-}005$$

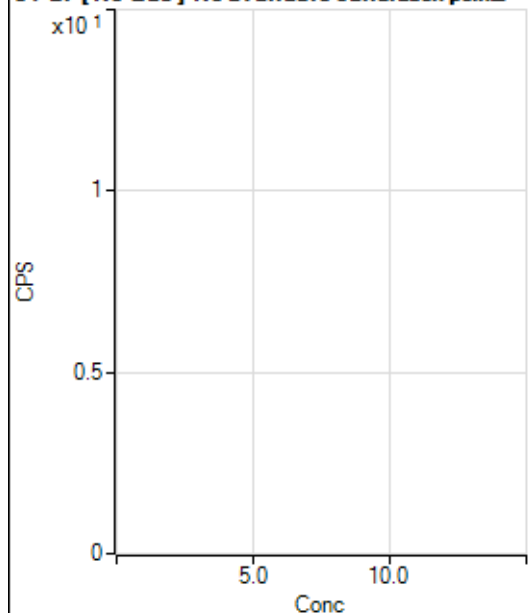
$$R = 1.0000$$

$$DL = 0.6782$$

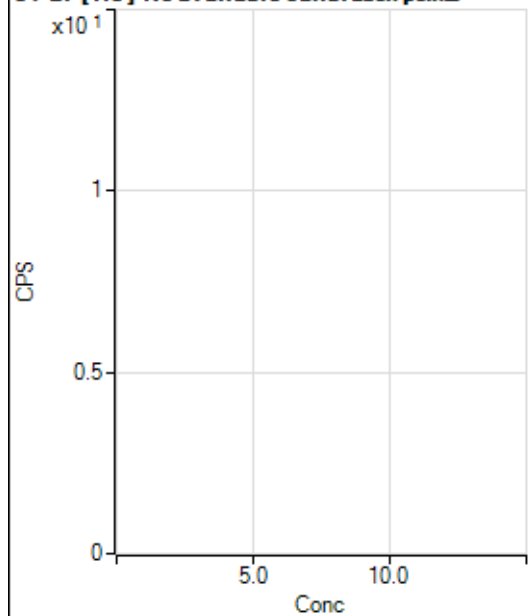
$$BEC = 3.725$$

Weight: <None>

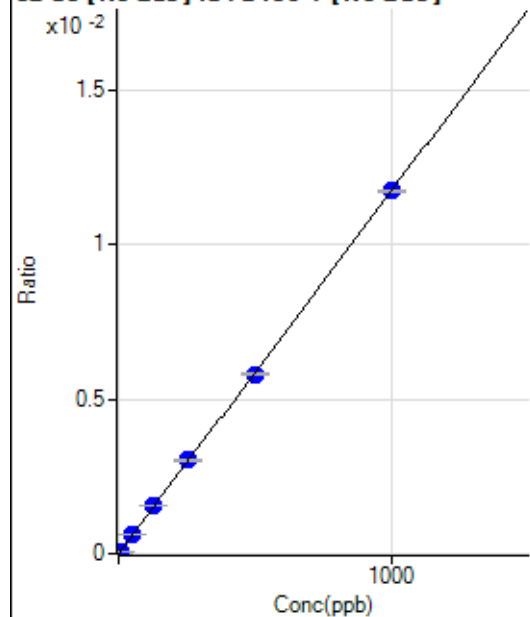
Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			34642.36		P	0.7
2	☐			33587.12		P	1.6
3	☐			30780.71		P	2.5
4	☐			31986.03		P	2.4
5	☐			30655.45		P	1.8
6	☐			30131.93		P	2.5
7	☐			30304.65		P	1.4
8	☐			30396.67		P	2.2

81 Br [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			66.73		P	31.2
2	☐			56.72		P	36.7
3	☐			50.05		P	72.1
4	☐			90.09		P	22.2
5	☐			73.41		P	28.4
6	☐			40.04		P	90.1
7	☐			46.71		P	75.3
8	☐			93.43		P	16.4

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	31.85	0.0000	P	158.
2	☐	5.000	4.871	1070.55	0.0001	P	10.8
3	☐	50.000	51.276	10949.38	0.0006	P	1.6
4	☐	125.000	132.367	27789.38	0.0016	P	2.4
5	☐	250.000	257.547	54133.41	0.0030	P	0.8
6	☐	500.000	494.790	102479.87	0.0058	P	0.9
7	☐	1000.000	999.734	206234.43	0.0117	P	0.7
8	☐			137.49	0.0000	P	57.8

$$y = 1.1749\text{E-}005 * x + 1.7519\text{E-}006$$

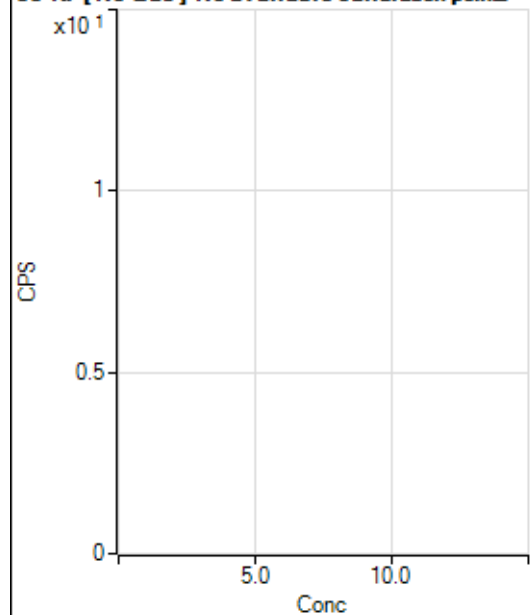
$$R = 0.9999$$

$$DL = 0.7085$$

$$BEC = 0.1491$$

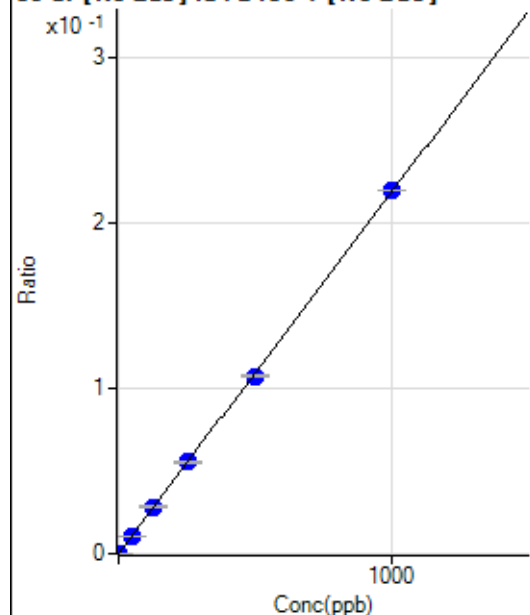
Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			775.58		P	6.9
2	☐			848.93		P	12.4
3	☐			853.37		P	13.8
4	☐			840.04		P	6.2
5	☐			796.70		P	8.7
6	☐			798.92		P	13.5
7	☐			830.03		P	7.4
8	☐			818.92		P	6.2

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1344.54	0.0001	P	4.4
2	☐	1.000	0.938	5062.13	0.0003	P	5.3
3	☐	50.000	49.036	195569.34	0.0108	P	0.5
4	☐	125.000	129.737	507459.06	0.0284	P	1.4
5	☐	250.000	253.095	990333.50	0.0554	P	1.3
6	☐	500.000	490.052	1888852.99	0.1072	P	1.3
7	☐	1000.000	1003.656	3852343.06	0.2194	P	0.1
8	☐			21124.27	0.0012	P	2.9

$$y = 2.1855\text{E-}004 * x + 7.3886\text{E-}005$$

$$R = 0.9999$$

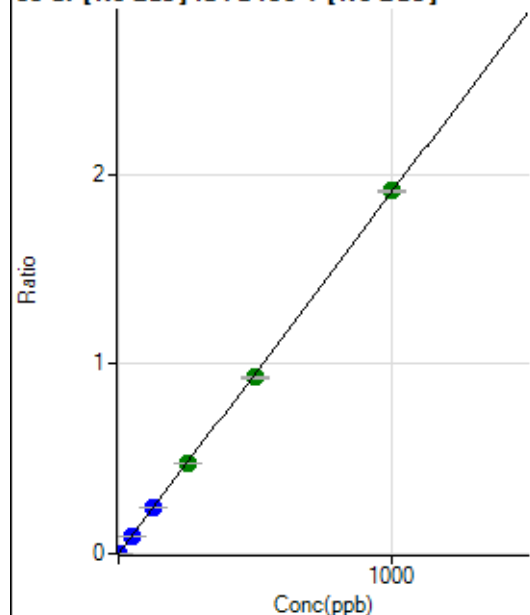
$$DL = 0.0443$$

$$BEC = 0.3381$$

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	241.68	0.0000	P	18.4
2	☐	1.000	0.946	32943.75	0.0018	P	2.0
3	☐	50.000	49.114	1695350.08	0.0935	P	0.4
4	☐	125.000	127.310	4327855.91	0.2425	P	1.8
5	☐	250.000	250.700	8536560.09	0.4774	A	1.2
6	☐	500.000	489.209	16419478.49	0.9317	A	1.0
7	☐	1000.000	1004.976	33601371.58	1.9139	A	0.5
8	☐			174836.65	0.0102	P	1.3

$$y = 0.0019 * x + 1.3282\text{E-}005$$

$$R = 0.9999$$

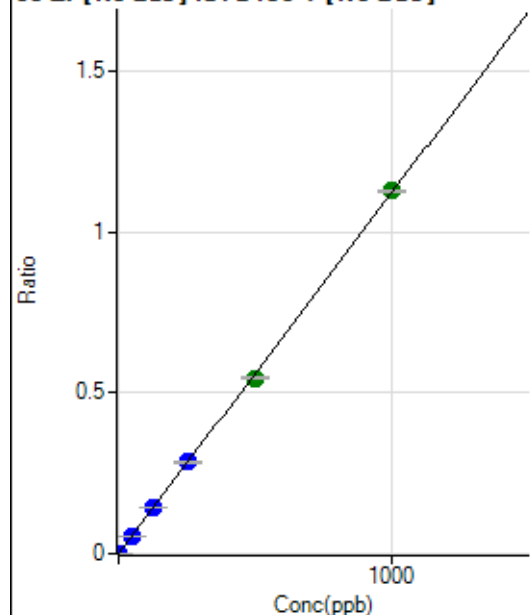
$$DL = 0.003846$$

$$BEC = 0.006974$$

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	980.62	0.0001	P	4.7
2	☐	1.000	0.927	19853.00	0.0011	P	2.0
3	☐	50.000	49.237	1002493.69	0.0553	P	0.7
4	☐	125.000	129.034	2586021.24	0.1449	P	1.8
5	☐	250.000	253.082	5079805.93	0.2841	P	0.8
6	☐	500.000	486.998	9634458.03	0.5466	A	0.9
7	☐	1000.000	1005.264	19809008.43	1.1283	A	0.5
8	☐			5281.66	0.0003	P	4.7

$$y = 0.0011 * x + 5.3880E-005$$

$$R = 0.9999$$

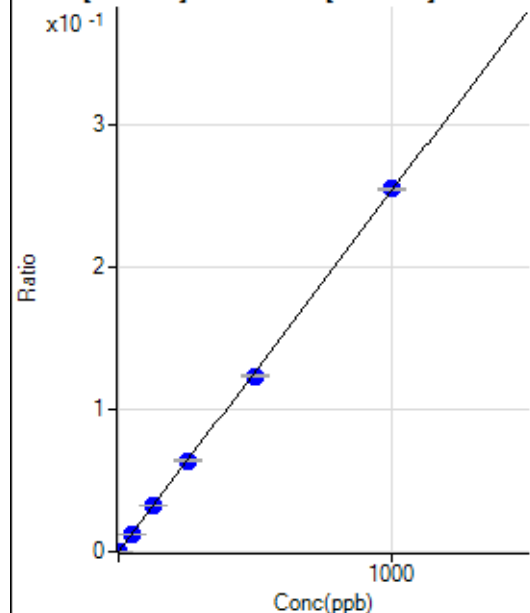
$$DL = 0.006728$$

$$BEC = 0.04801$$

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	177.78	0.0000	P	1.8
2	☐	1.000	0.969	4639.77	0.0003	P	7.6
3	☐	50.000	48.881	224932.38	0.0124	P	0.9
4	☐	125.000	127.059	575541.95	0.0322	P	2.4
5	☐	250.000	251.907	1142854.18	0.0639	P	1.5
6	☐	500.000	487.271	2178923.12	0.1236	P	0.6
7	☐	1000.000	1005.686	4479504.83	0.2552	P	0.9
8	☐			1100.07	0.0001	P	10.6

$$y = 2.5370E-004 * x + 9.7679E-006$$

$$R = 0.9999$$

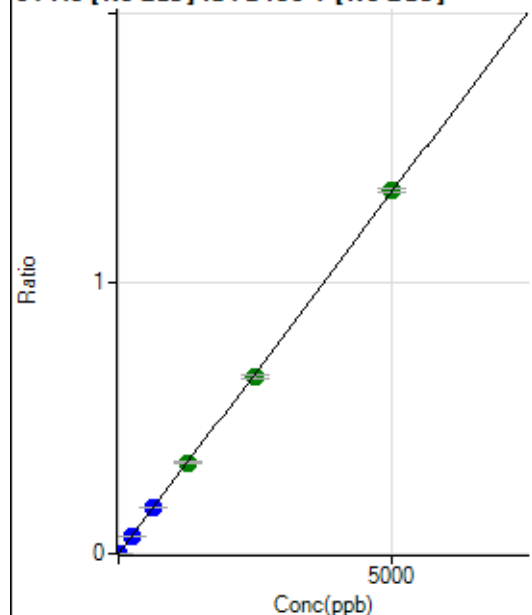
$$DL = 0.002024$$

$$BEC = 0.0385$$

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	327.79	0.0000	P	13.3
2	☐	5.000	4.758	23394.52	0.0013	P	1.3
3	☐	250.000	247.351	1197804.24	0.0661	P	0.5
4	☐	625.000	644.320	3072360.47	0.1721	P	2.2
5	☐	1250.000	1255.666	5997429.48	0.3354	A	1.6
6	☐	2500.000	2443.282	11502549.91	0.6527	A	2.0
7	☐	5000.000	5024.660	23564149.14	1.3422	A	0.9
8	☐			7107.52	0.0004	P	3.3

$$y = 2.6713\text{E-}004 * x + 1.8000\text{E-}005$$

$$R = 0.9999$$

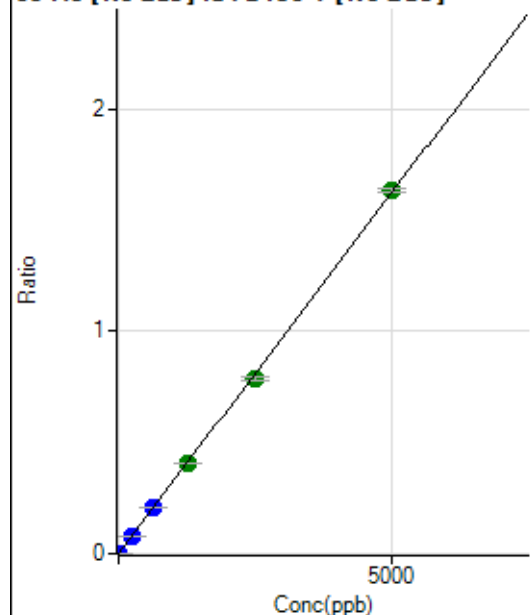
$$DL = 0.02688$$

$$BEC = 0.06738$$

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	38.89	0.0000	P	32.2
2	☐	5.000	4.788	28239.46	0.0016	P	1.2
3	☐	250.000	247.255	1454019.43	0.0802	P	0.9
4	☐	625.000	643.181	3725017.62	0.2087	P	2.2
5	☐	1250.000	1251.351	7259659.36	0.4060	A	1.5
6	☐	2500.000	2428.519	13886713.68	0.7880	A	1.9
7	☐	5000.000	5033.267	28671490.57	1.6332	A	1.0
8	☐			9105.91	0.0005	P	4.7

$$y = 3.2447\text{E-}004 * x + 2.1346\text{E-}006$$

$$R = 0.9998$$

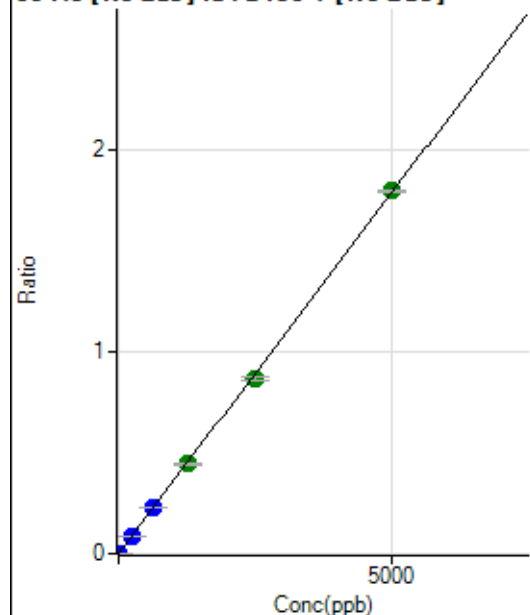
$$DL = 0.006348$$

$$BEC = 0.006579$$

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	138.89	0.0000	P	29.2
2	☐	5.000	4.914	31953.05	0.0018	P	1.7
3	☐	250.000	247.578	1600541.88	0.0883	P	0.7
4	☐	625.000	641.388	4083447.27	0.2288	P	2.2
5	☐	1250.000	1250.475	7974573.96	0.4460	A	2.0
6	☐	2500.000	2431.657	15284775.51	0.8673	A	2.1
7	☐	5000.000	5032.125	31510709.73	1.7949	A	0.8
8	☐			17694.72	0.0010	P	2.3

$$y = 3.5668\text{E-}004 * x + 7.6448\text{E-}006$$

$$R = 0.9999$$

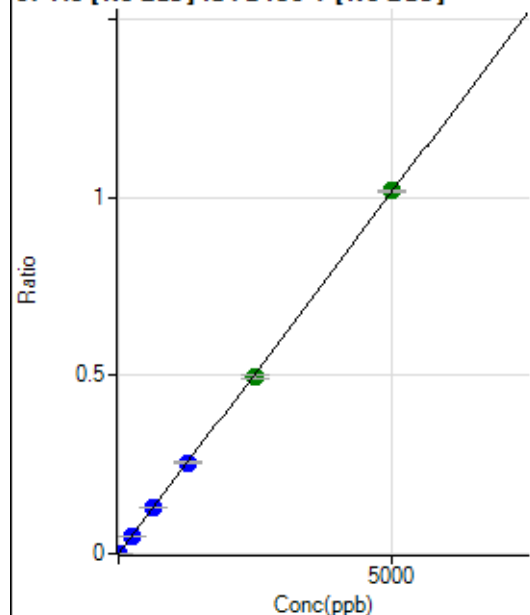
$$DL = 0.01879$$

$$BEC = 0.02143$$

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	8.33	0.0000	P	99.8
2	☐	5.000	4.764	17544.49	0.0010	P	1.9
3	☐	250.000	245.877	903910.40	0.0499	P	0.2
4	☐	625.000	641.505	2322580.41	0.1301	P	2.3
5	☐	1250.000	1262.271	4577907.79	0.2560	P	1.7
6	☐	2500.000	2441.088	8726200.11	0.4952	A	2.2
7	☐	5000.000	5024.531	17893737.21	1.0192	A	0.5
8	☐			5476.19	0.0003	P	3.4

$$y = 2.0284\text{E-}004 * x + 4.6005\text{E-}007$$

$$R = 0.9999$$

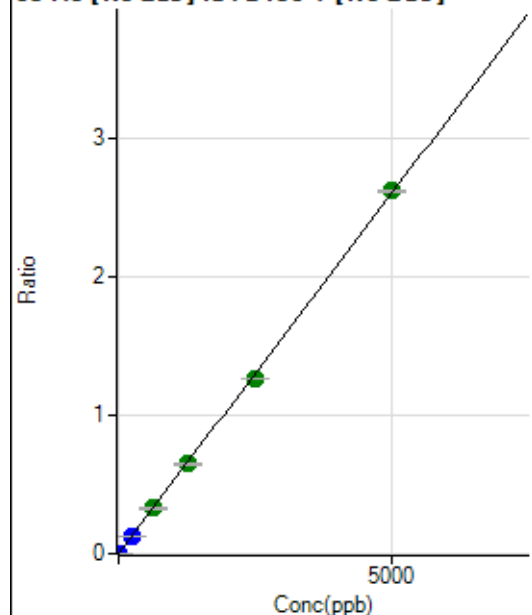
$$DL = 0.006793$$

$$BEC = 0.002268$$

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	47.22	0.0000	P	49.9
2	☐	5.000	4.778	45088.39	0.0025	P	1.3
3	☐	250.000	247.285	2327561.68	0.1284	P	0.4
4	☐	625.000	630.925	5848984.81	0.3277	A	1.6
5	☐	1250.000	1245.376	11564296.27	0.6468	A	1.4
6	☐	2500.000	2429.214	22234608.31	1.2616	A	0.7
7	☐	5000.000	5035.944	45917881.58	2.6154	A	0.7
8	☐			13684.69	0.0008	P	3.0

$$y = 5.1934\text{E-}004 * x + 2.5864\text{E-}006$$

$$R = 0.9998$$

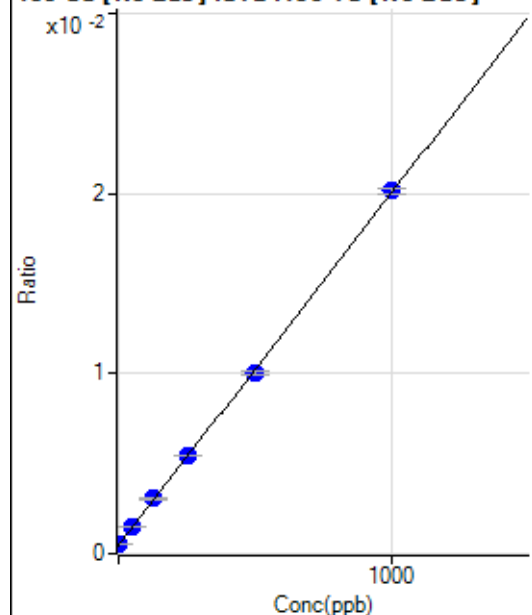
$$DL = 0.007451$$

$$BEC = 0.00498$$

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	8536.13	0.0005	P	1.4
2	☐	1.000	1.173	9025.27	0.0005	P	3.3
3	☐	50.000	50.823	26358.35	0.0015	P	2.5
4	☐	125.000	130.203	52823.71	0.0030	P	1.5
5	☐	250.000	252.378	95215.52	0.0054	P	0.7
6	☐	500.000	486.954	175981.93	0.0100	P	2.1
7	☐	1000.000	1005.237	344643.89	0.0202	P	1.7
8	☐			8091.38	0.0005	P	5.4

$$y = 1.9552\text{E-}005 * x + 4.9925\text{E-}004$$

$$R = 0.9999$$

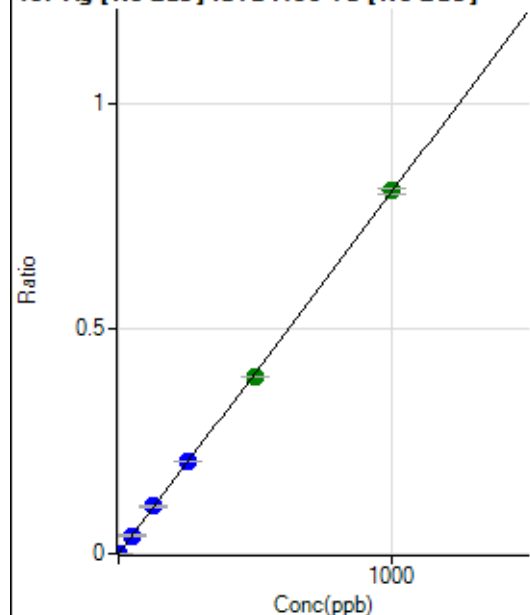
$$DL = 1.064$$

$$BEC = 25.53$$

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	194.45	0.0000	P	18.3
2	☐	1.000	1.022	14399.29	0.0008	P	2.7
3	☐	50.000	50.416	715684.55	0.0405	P	1.3
4	☐	125.000	131.343	1831408.51	0.1056	P	2.7
5	☐	250.000	256.125	3608287.93	0.2059	P	0.5
6	☐	500.000	488.227	6894275.50	0.3925	A	0.5
7	☐	1000.000	1003.542	13796930.86	0.8068	A	1.3
8	☐			5951.42	0.0004	P	3.4

$$y = 8.0393\text{E-}004 * x + 1.1359\text{E-}005$$

$$R = 0.9999$$

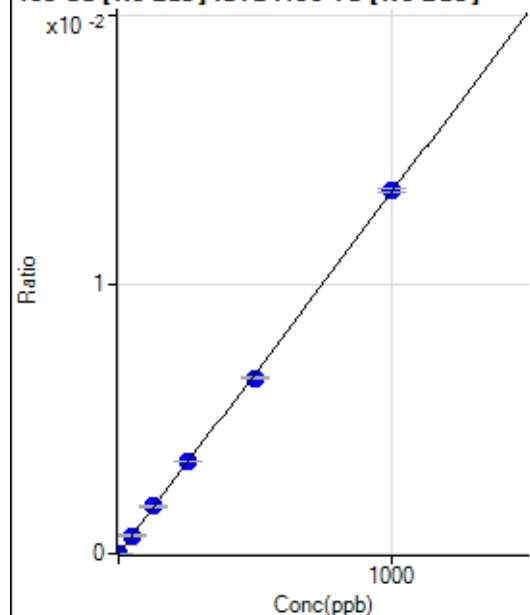
$$DL = 0.00776$$

$$BEC = 0.01413$$

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	27.78	0.0000	P	47.3
2	☐	1.000	1.018	263.90	0.0000	P	12.2
3	☐	50.000	50.069	11863.42	0.0007	P	3.1
4	☐	125.000	131.908	30666.47	0.0018	P	2.6
5	☐	250.000	255.241	59926.86	0.0034	P	1.8
6	☐	500.000	486.335	114426.07	0.0065	P	0.8
7	☐	1000.000	1004.655	230121.14	0.0135	P	0.9
8	☐			216.67	0.0000	P	14.1

$$y = 1.3392\text{E-}005 * x + 1.6171\text{E-}006$$

$$R = 0.9998$$

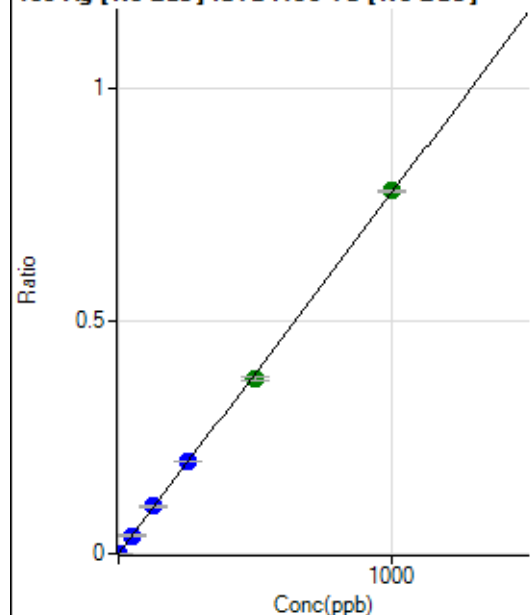
$$DL = 0.1714$$

$$BEC = 0.1208$$

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	100.01	0.0000	P	13.1
2	☐	1.000	0.972	13123.12	0.0008	P	0.7
3	☐	50.000	50.515	690844.01	0.0391	P	1.3
4	☐	125.000	131.086	1761093.96	0.1015	P	2.7
5	☐	250.000	253.511	3441059.10	0.1964	P	0.3
6	☐	500.000	486.234	6614826.92	0.3766	A	2.6
7	☐	1000.000	1005.219	13316461.06	0.7787	A	0.7
8	☐			5584.55	0.0003	P	3.9

$$y = 7.7460\text{E-}004 * x + 5.8422\text{E-}006$$

$$R = 0.9998$$

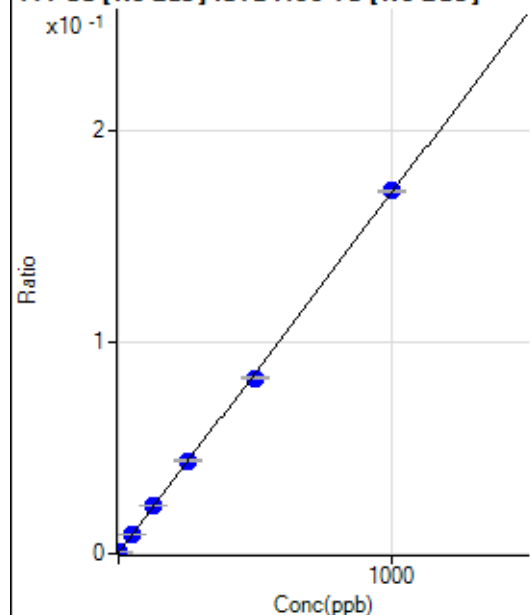
$$DL = 0.002961$$

$$BEC = 0.007542$$

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	5975.30	0.0003	P	1.2
2	☐	1.000	1.152	9429.23	0.0005	P	2.5
3	☐	50.000	50.403	157594.52	0.0089	P	1.4
4	☐	125.000	131.079	392970.39	0.0227	P	2.4
5	☐	250.000	256.584	771304.50	0.0440	P	0.8
6	☐	500.000	485.035	1455994.45	0.0829	P	1.1
7	☐	1000.000	1005.057	2931198.30	0.1714	P	0.9
8	☐			6533.18	0.0004	P	3.9

$$y = 1.7019\text{E-}004 * x + 3.4948\text{E-}004$$

$$R = 0.9998$$

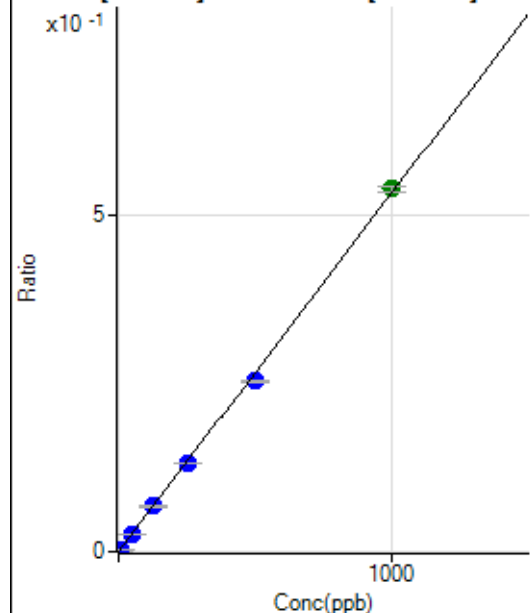
$$DL = 0.0729$$

$$BEC = 2.054$$

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	691.70	0.0000	P	8.3
2	☐	5.000	4.734	44284.28	0.0026	P	2.6
3	☐	50.000	48.359	455382.65	0.0258	P	1.7
4	☐	125.000	127.478	1178234.72	0.0679	P	2.8
5	☐	250.000	248.001	2315314.65	0.1321	P	0.5
6	☐	500.000	475.967	4453323.84	0.2536	P	1.2
7	☐	1000.000	1012.290	9221087.18	0.5392	A	1.3
8	☐			3383.83	0.0002	P	8.7

$$y = 5.3262\text{E-}004 * x + 4.0474\text{E-}005$$

$$R = 0.9996$$

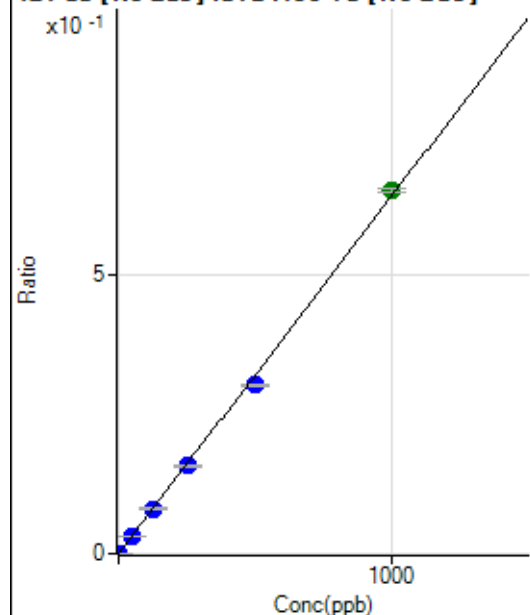
$$DL = 0.01899$$

$$BEC = 0.07599$$

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	41.67	0.0000	P	52.3
2	☐	2.000	1.841	20440.40	0.0012	P	2.8
3	☐	50.000	48.133	544637.70	0.0309	P	1.6
4	☐	125.000	125.924	1399817.92	0.0807	P	2.7
5	☐	250.000	245.140	2753266.69	0.1571	P	0.8
6	☐	500.000	472.130	5314985.36	0.3026	P	1.3
7	☐	1000.000	1015.128	11127327.16	0.6506	A	0.9
8	☐			5879.15	0.0004	P	6.6

$$y = 6.4095\text{E-}004 * x + 2.4348\text{E-}006$$

$$R = 0.9994$$

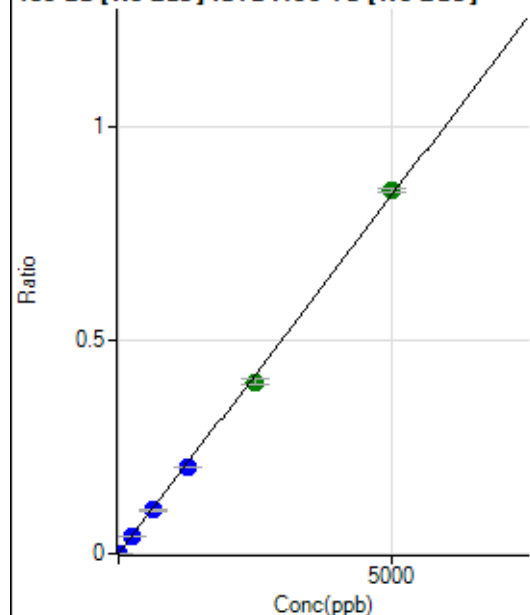
$$DL = 0.005965$$

$$BEC = 0.003799$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	66.67	0.0000	P	44.0
2	☐	10.000	9.224	26812.35	0.0016	P	1.2
3	☐	250.000	232.593	688579.49	0.0390	P	1.6
4	☐	625.000	607.909	1768191.57	0.1019	P	2.2
5	☐	1250.000	1204.322	3538851.30	0.2020	P	1.0
6	☐	2500.000	2396.820	7058585.14	0.4019	A	2.9
7	☐	5000.000	5066.018	14528855.01	0.8495	A	1.2
8	☐			22582.70	0.0014	P	0.8

$$y = 1.6769E-004 * x + 3.8863E-006$$

$$R = 0.9996$$

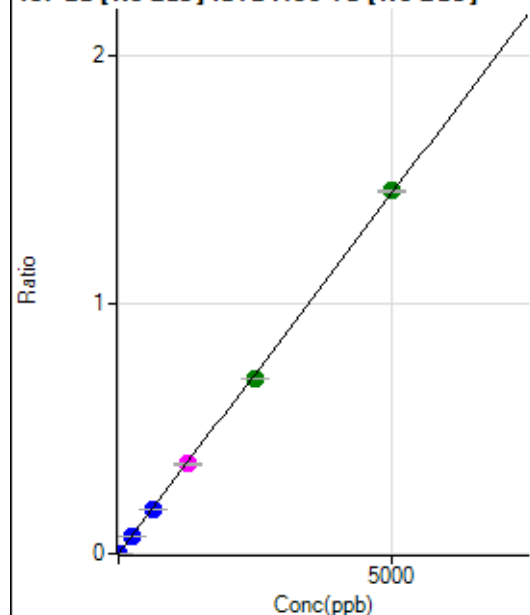
$$DL = 0.03059$$

$$BEC = 0.02318$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	75.00	0.0000	P	29.6
2	☐	10.000	9.107	45555.67	0.0026	P	1.3
3	☐	250.000	235.187	1199430.01	0.0679	P	1.4
4	☐	625.000	615.844	3085714.30	0.1779	P	2.3
5	☐	1250.000	1244.956	6301957.13	0.3597	M	2.0
6	☐	2500.000	2428.635	12323198.54	0.7016	A	0.5
7	☐	5000.000	5038.830	24894003.33	1.4556	A	0.7
8	☐			39960.82	0.0024	P	0.9

$$y = 2.8888E-004 * x + 4.3906E-006$$

$$R = 0.9999$$

$$DL = 0.01348$$

$$BEC = 0.0152$$

Weight: <None>

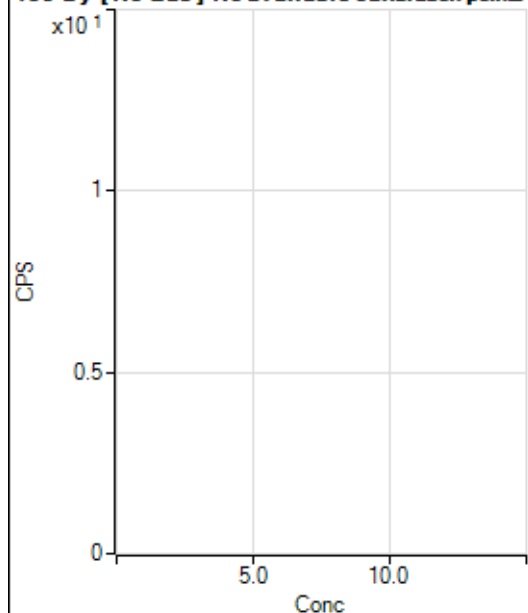
Min Conc: 0

150 Nd [No Gas] No available calibration points

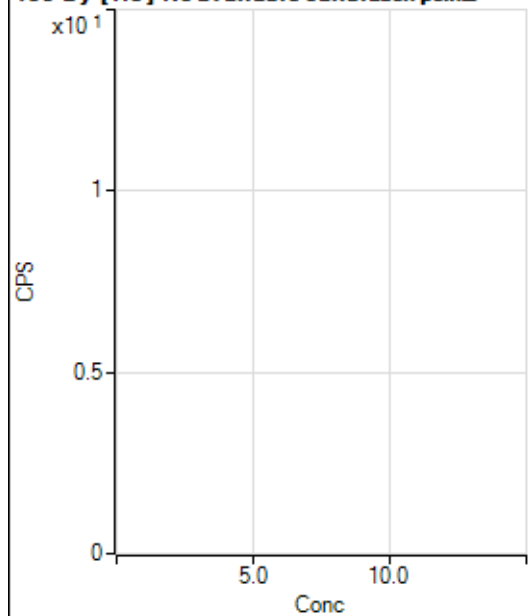
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2.22		P	173.
2	☐			8.89		P	43.3
3	☐			75.56		P	58.8
4	☐			226.67		P	14.7
5	☐			351.12		P	5.8
6	☐			606.70		P	11.4
7	☐			1273.42		P	4.6
8	☐			40.00		P	28.9

150 Nd [He] No available calibration points

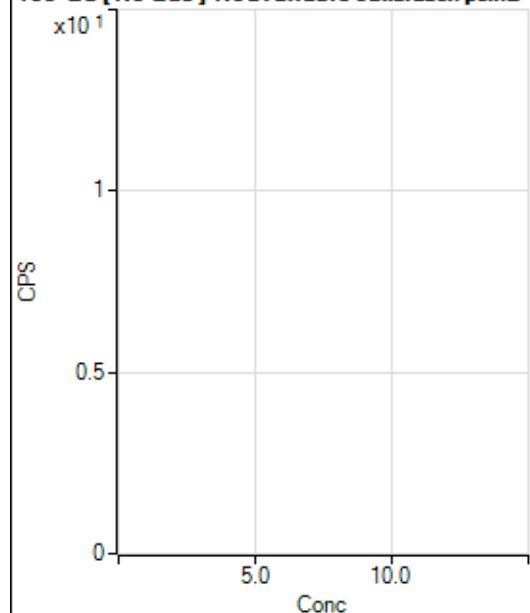
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2.22		P	86.6
2	☐			3.33		P	0.0
3	☐			7.78		P	99.0
4	☐			36.66		P	15.7
5	☐			65.55		P	25.6
6	☐			86.67		P	3.8
7	☐			145.56		P	9.3
8	☐			21.11		P	71.2

156 Dy [No Gas] No available calibration points

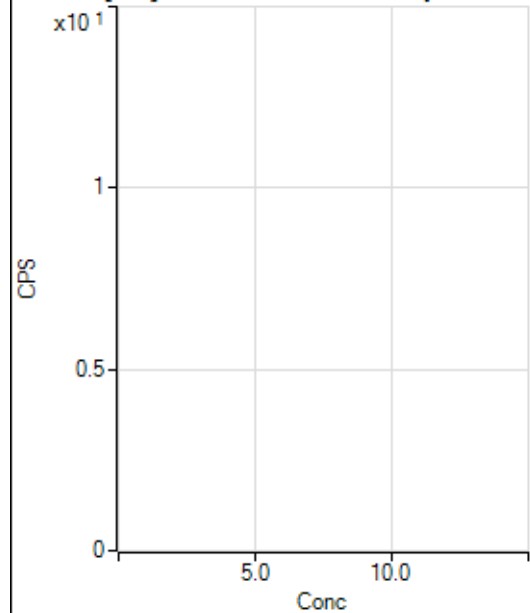
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			13.89		P	124.
2	☐			19.44		P	89.2
3	☐			52.78		P	18.2
4	☐			83.34		P	0.0
5	☐			152.78		P	16.7
6	☐			363.90		P	9.5
7	☐			461.13		P	15.2
8	☐			700.04		P	7.8

156 Dy [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			10.00		P	66.7
2	☐			16.67		P	72.1
3	☐			33.33		P	10.0
4	☐			56.66		P	10.2
5	☐			98.89		P	37.1
6	☐			202.23		P	11.0
7	☐			280.01		P	2.4
8	☐			498.90		P	7.8

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

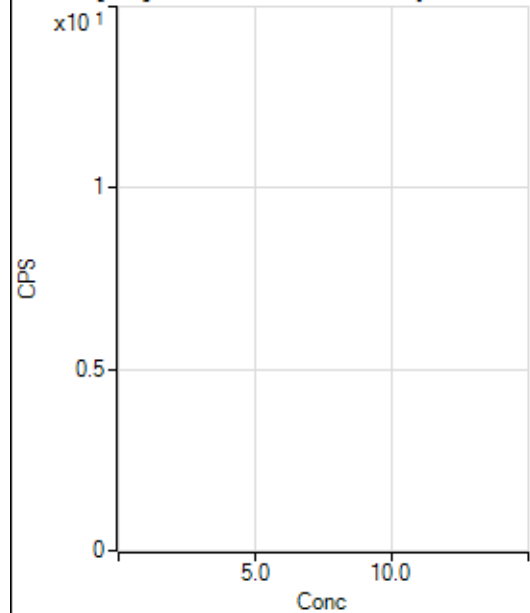
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			211.12		P	11.4
2	☐			175.01		P	19.0
3	☐			186.12		P	12.9
4	☐			188.90		P	22.6
5	☐			294.46		P	8.2
6	☐			352.79		P	10.7
7	☐			380.57		P	23.0
8	☐			952.83		P	6.7

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			222.23		P	9.8
2	☐			207.78		P	10.3
3	☐			213.34		P	13.5
4	☐			245.56		P	3.4
5	☐			226.67		P	11.7
6	☐			278.90		P	3.7
7	☐			334.45		P	7.5
8	☐			722.25		P	7.9

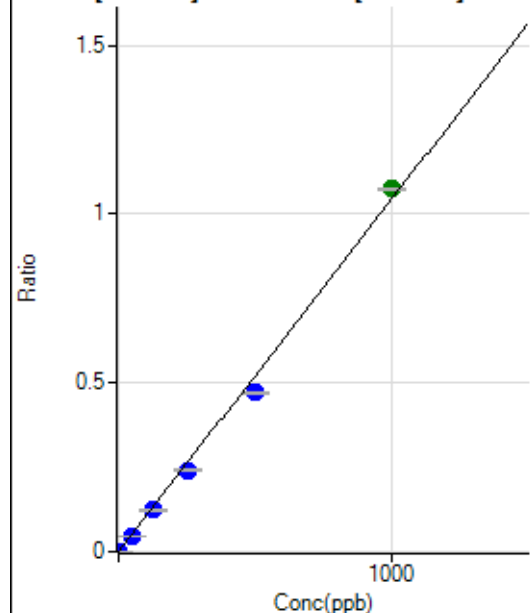
164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			72.22		P	17.6
2	☐			88.89		P	30.1
3	☐			80.56		P	26.0
4	☐			102.78		P	18.7
5	☐			105.56		P	12.1
6	☐			147.23		P	34.1
7	☐			144.45		P	40.9
8	☐			216.67		P	36.7

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			38.89		P	44.0
2	☐			51.11		P	3.8
3	☐			56.67		P	21.2
4	☐			65.56		P	19.2
5	☐			64.44		P	26.5
6	☐			66.67		P	42.7
7	☐			90.00		P	28.0
8	☐			91.11		P	20.8

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	75.00	0.0000	P	18.5
2	☐	1.000	0.856	10170.80	0.0009	P	1.1
3	☐	50.000	44.913	523388.34	0.0469	P	1.8
4	☐	125.000	117.983	1364915.32	0.1231	P	1.8
5	☐	250.000	230.650	2688516.79	0.2407	P	1.7
6	☐	500.000	452.284	5214252.90	0.4720	P	1.4
7	☐	1000.000	1029.827	11607258.94	1.0747	A	0.6
8	☐			733.38	0.0001	P	12.1

$$y = 0.0010 * x + 6.6682E-006$$

$$R = 0.9982$$

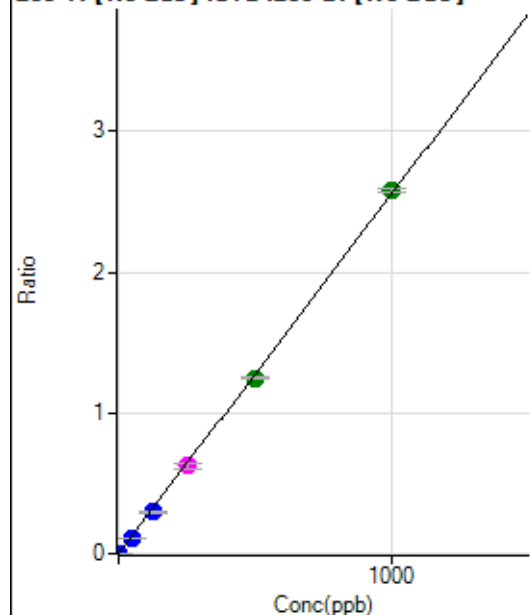
$$DL = 0.003553$$

$$BEC = 0.00639$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	188.89	0.0000	P	19.4
2	☐	1.000	0.817	23785.56	0.0021	P	0.5
3	☐	50.000	44.179	1260255.30	0.1129	P	1.3
4	☐	125.000	115.286	3264540.07	0.2945	P	2.1
5	☐	250.000	243.963	6956467.39	0.6232	M	7.4
6	☐	500.000	488.415	13784075.66	1.2476	A	0.6
7	☐	1000.000	1008.807	27831286.38	2.5769	A	1.0
8	☐			1786.28	0.0002	P	2.0

$$y = 0.0026 * x + 1.6802E-005$$

$$R = 0.9999$$

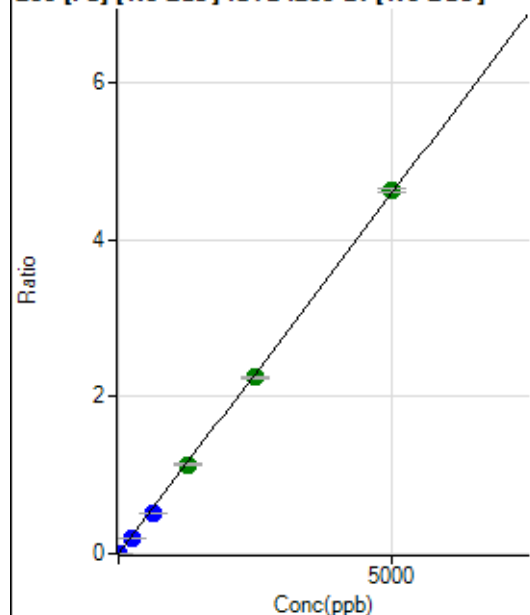
$$DL = 0.003828$$

$$BEC = 0.006578$$

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	535.21	0.0000	P	11.0
2	☐	1.000	0.804	8875.31	0.0008	P	3.3
3	☐	250.000	218.212	2236424.76	0.2003	P	1.7
4	☐	625.000	567.164	5770330.86	0.5205	P	1.4
5	☐	1250.000	1241.157	12721788.13	1.1390	A	1.9
6	☐	2500.000	2444.786	24784700.55	2.2436	A	2.0
7	☐	5000.000	5038.637	49940633.99	4.6239	A	1.1
8	☐			36160.28	0.0038	P	0.6

$$y = 9.1769\text{E-}004 * x + 4.7662\text{E-}005$$

$$R = 0.9999$$

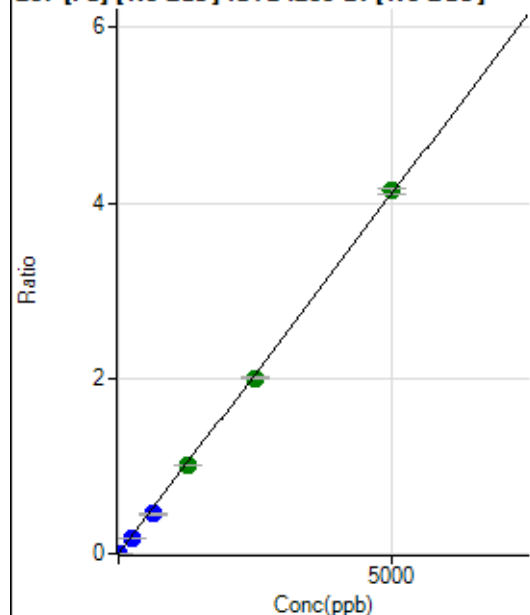
$$DL = 0.01713$$

$$BEC = 0.05194$$

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	405.57	0.0000	P	10.0
2	☐	1.000	0.764	7492.99	0.0007	P	4.7
3	☐	250.000	213.572	1955882.89	0.1752	P	1.9
4	☐	625.000	551.249	5011755.72	0.4521	P	1.3
5	☐	1250.000	1231.414	11279425.02	1.0099	A	1.9
6	☐	2500.000	2444.820	22147619.25	2.0049	A	2.1
7	☐	5000.000	5043.277	44669226.92	4.1358	A	1.2
8	☐			30117.75	0.0032	P	1.9

$$y = 8.2006\text{E-}004 * x + 3.6117\text{E-}005$$

$$R = 0.9998$$

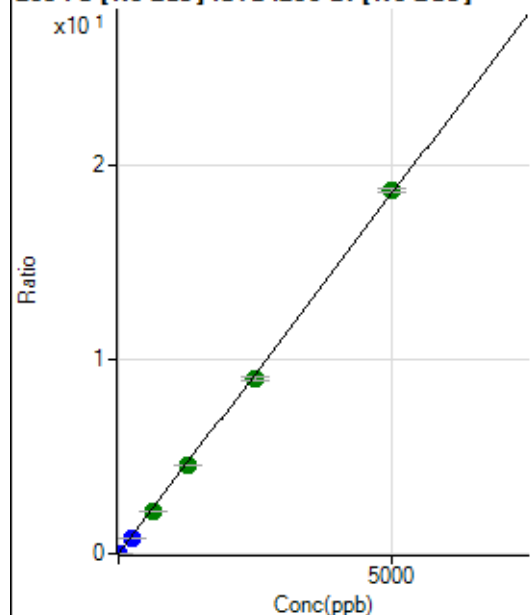
$$DL = 0.01315$$

$$BEC = 0.04404$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1937.13	0.0002	P	6.7
2	☐	1.000	0.787	34862.85	0.0031	P	1.8
3	☐	250.000	215.941	8925363.02	0.7994	P	1.4
4	☐	625.000	596.494	24476303.44	2.2078	A	0.9
5	☐	1250.000	1231.405	50907174.17	4.5576	A	1.5
6	☐	2500.000	2434.105	99516672.37	9.0088	A	2.0
7	☐	5000.000	5042.863	201579758.6	18.6639	A	1.1
8	☐			140187.93	0.0149	P	0.9

$$y = 0.0037 * x + 1.7246E-004$$

$$R = 0.9999$$

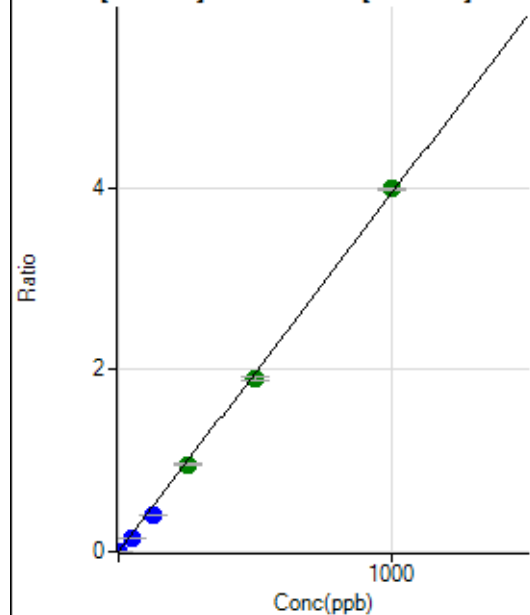
$$DL = 0.009314$$

$$BEC = 0.0466$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1075.99	0.0001	P	6.1
2	☐	1.000	-0.005	863.01	0.0001	P	14.2
3	☐	50.000	39.579	1738520.48	0.1557	P	1.3
4	☐	125.000	103.125	4495195.96	0.4055	P	2.3
5	☐	250.000	242.974	10671311.12	0.9554	A	1.3
6	☐	500.000	483.557	21001552.55	1.9012	A	2.5
7	☐	1000.000	1013.234	43025094.02	3.9836	A	0.7
8	☐			892.64	0.0001	P	3.6

$$y = 0.0039 * x + 9.5723E-005$$

$$R = 0.9996$$

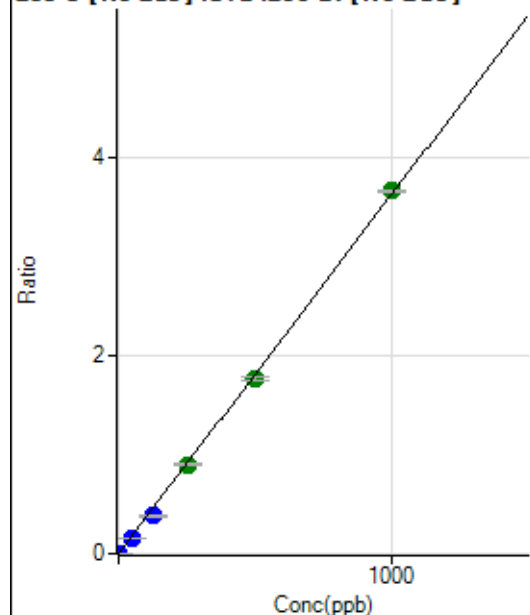
$$DL = 0.004441$$

$$BEC = 0.02435$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	27.78	0.0000	P	76.2
2	☐	1.000	0.739	30244.94	0.0027	P	2.3
3	☐	50.000	40.243	1626417.16	0.1457	P	0.3
4	☐	125.000	105.015	4213084.32	0.3801	P	2.3
5	☐	250.000	247.028	9985896.92	0.8941	A	2.2
6	☐	500.000	486.599	19455775.78	1.7612	A	1.5
7	☐	1000.000	1010.430	39497055.05	3.6571	A	0.3
8	☐			2605.89	0.0003	P	3.3

$$y = 0.0036 * x + 2.4842E-006$$

$$R = 0.9997$$

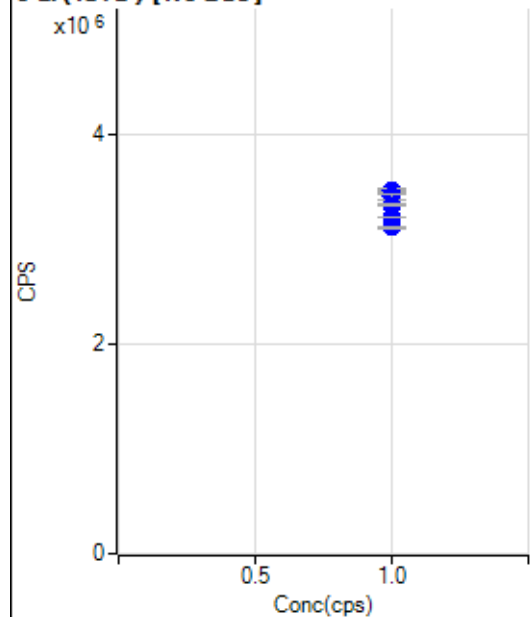
$$DL = 0.001569$$

$$BEC = 0.0006864$$

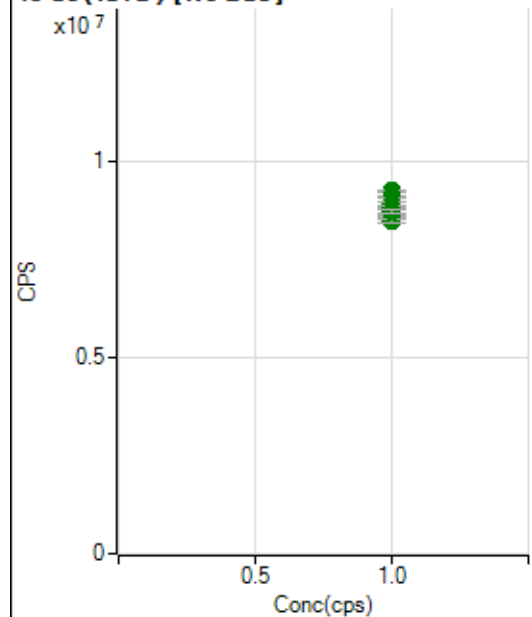
Weight: <None>

Min Conc: 0

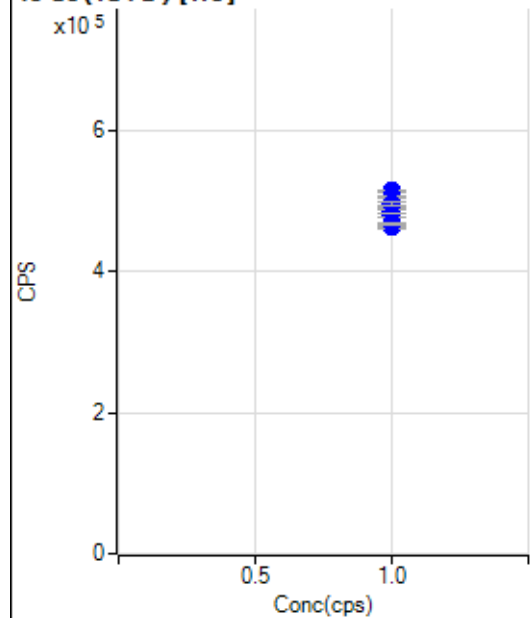
6 Li (ISTD) [No Gas]



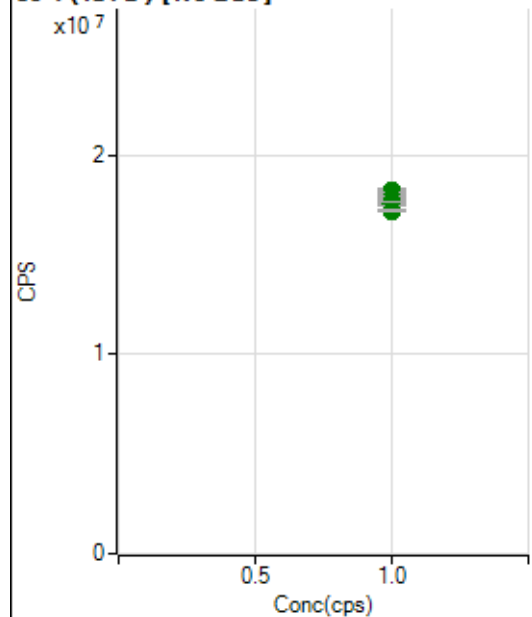
	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		3453177.62		P	0.2
2	☐	1.000		3448973.42		P	1.1
3	☐	1.000		3465660.64		P	1.0
4	☐	1.000		3408855.99		P	1.4
5	☐	1.000		3332120.82		P	0.7
6	☐	1.000		3211835.61		P	0.2
7	☐	1.000		3118307.59		P	0.5
8	☐	1.000		3116966.59		P	0.4

45 Sc (ISTD) [No Gas]

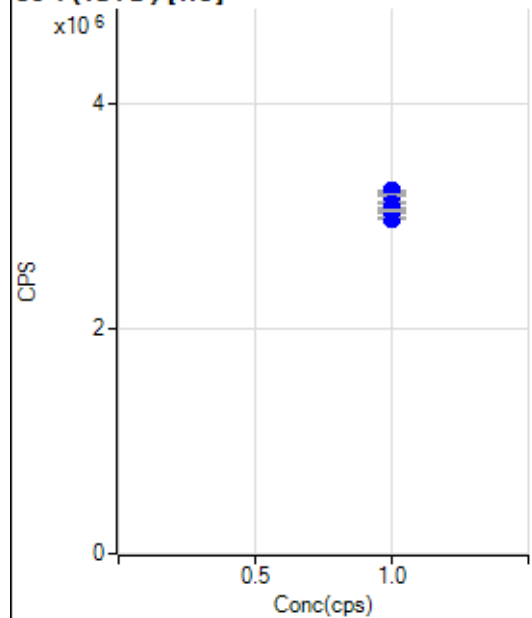
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		9231418.68		A	0.8
2	☐	1.000		9087504.24		A	0.4
3	☐	1.000		9047583.13		A	0.3
4	☐	1.000		8896189.80		A	1.7
5	☐	1.000		8787576.60		A	1.1
6	☐	1.000		8598836.12		A	0.3
7	☐	1.000		8474368.49		A	1.0
8	☐	1.000		8709822.44		A	0.6

45 Sc (ISTD) [He]

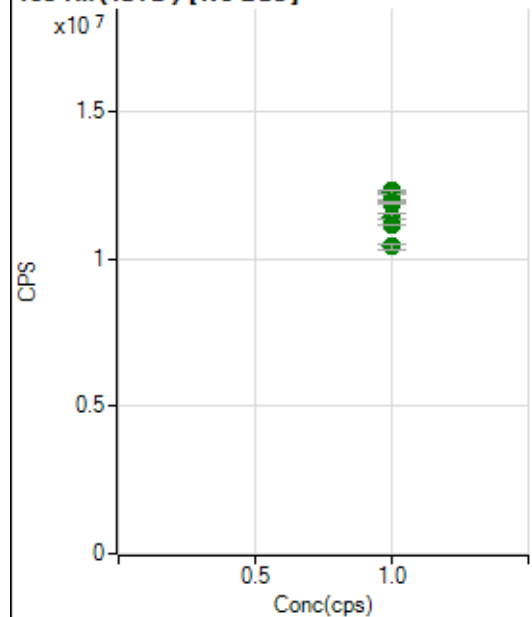
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		513504.40		P	0.5
2	☐	1.000		505752.65		P	0.7
3	☐	1.000		490350.40		P	0.6
4	☐	1.000		484837.64		P	1.3
5	☐	1.000		479054.84		P	1.5
6	☐	1.000		461911.68		P	0.6
7	☐	1.000		467135.05		P	0.3
8	☐	1.000		494797.05		P	1.0

89 Y (ISTD) [No Gas]

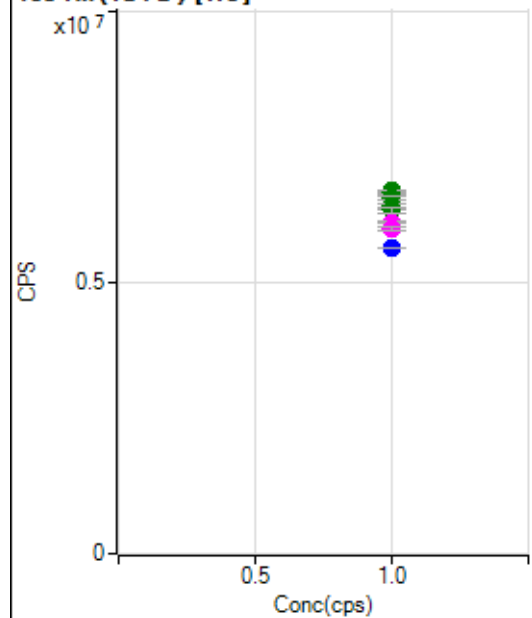
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		18198791.81		A	1.0
2	☐	1.000		18149505.42		A	0.5
3	☐	1.000		18123509.18		A	0.3
4	☐	1.000		17853515.29		A	1.8
5	☐	1.000		17880794.04		A	0.7
6	☐	1.000		17624803.77		A	0.9
7	☐	1.000		17556433.07		A	0.6
8	☐	1.000		17193061.83		A	0.7

89 Y (ISTD) [He]

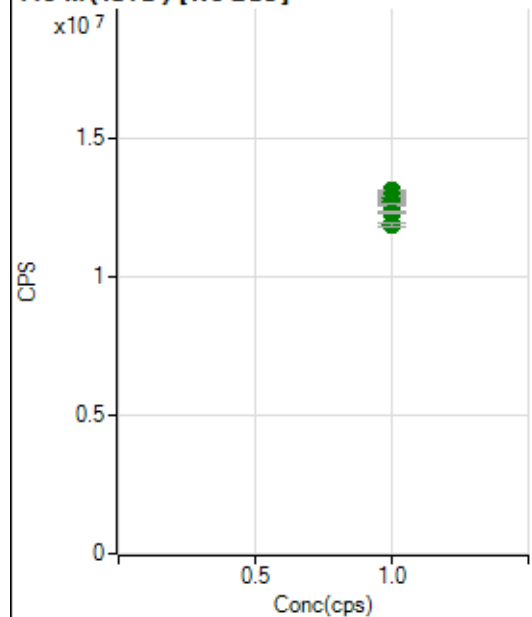
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3224076.51		P	0.3
2	☐	1.000		3188310.61		P	0.5
3	☐	1.000		3117432.94		P	0.2
4	☐	1.000		3068825.99		P	0.4
5	☐	1.000		3052167.49		P	1.7
6	☐	1.000		2972473.25		P	0.3
7	☐	1.000		2987628.11		P	0.1
8	☐	1.000		3049603.35		P	0.9

103 Rh (ISTD) [No Gas]

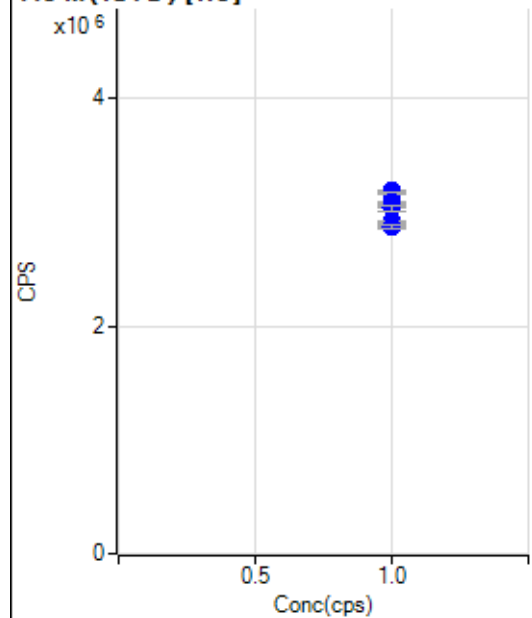
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		12207015.24		A	0.3
2	☐	1.000		12302419.40		A	0.6
3	☐	1.000		12243275.10		A	1.0
4	☐	1.000		11927962.05		A	1.3
5	☐	1.000		11876602.32		A	0.7
6	☐	1.000		11434655.52		A	1.6
7	☐	1.000		11150601.64		A	0.6
8	☐	1.000		10406220.12		A	1.4

103 Rh (ISTD) [He]

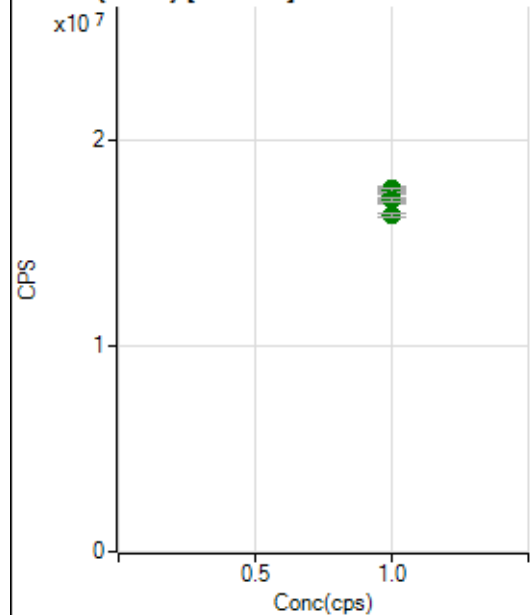
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6685475.73		A	0.3
2	☐	1.000		6666927.47		A	0.9
3	☐	1.000		6556915.39		A	0.6
4	☐	1.000		6402262.75		A	1.4
5	☐	1.000		6333932.20		A	1.9
6	☐	1.000		6110613.87		M	0.6
7	☐	1.000		5998897.62		M	1.3
8	☐	1.000		5641377.76		P	0.1

115 In (ISTD) [No Gas]

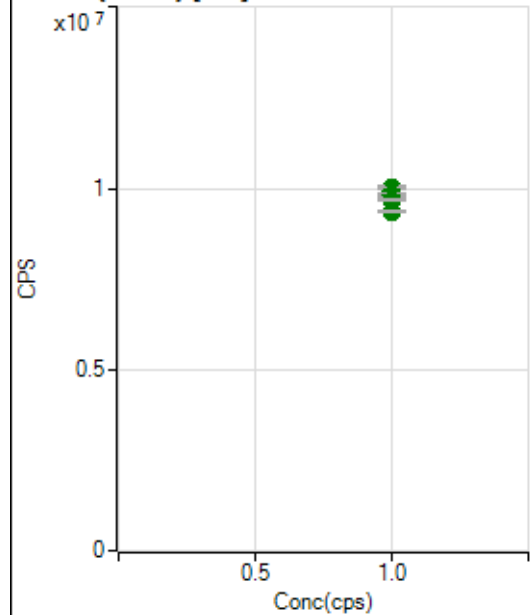
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		13106971.88		A	0.4
2	☐	1.000		13095198.62		A	0.4
3	☐	1.000		12929432.85		A	1.0
4	☐	1.000		12830792.44		A	1.7
5	☐	1.000		12708969.30		A	0.9
6	☐	1.000		12616023.27		A	1.0
7	☐	1.000		12320474.95		A	0.8
8	☐	1.000		11881728.69		A	0.6

115 In (ISTD) [He]

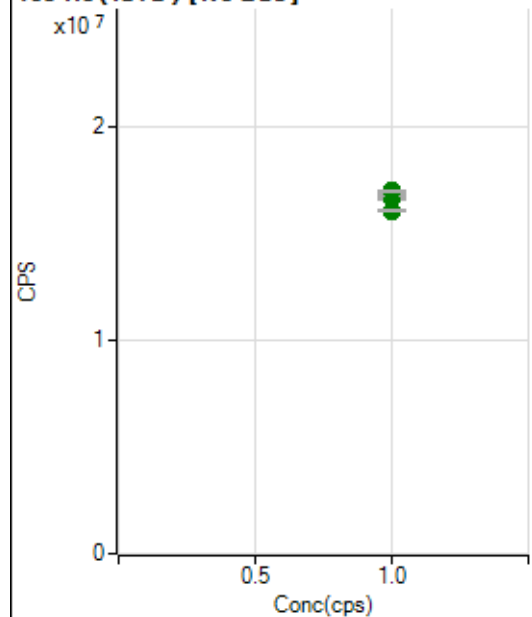
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3188842.20		P	0.2
2	☐	1.000		3170381.41		P	0.4
3	☐	1.000		3089292.46		P	0.0
4	☐	1.000		3059264.32		P	0.8
5	☐	1.000		3037728.21		P	1.9
6	☐	1.000		2918918.60		P	0.9
7	☐	1.000		2875755.71		P	0.4
8	☐	1.000		2871345.07		P	0.8

159 Tb (ISTD) [No Gas]

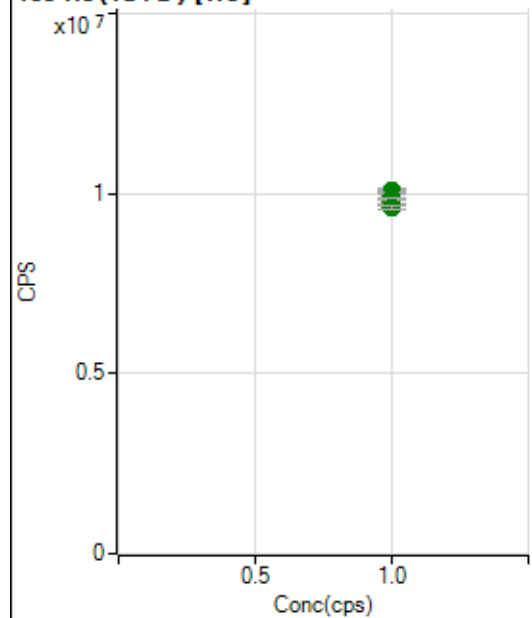
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		17095970.02		A	1.5
2	☐	1.000		17288766.13		A	1.4
3	☐	1.000		17654829.88		A	1.3
4	☐	1.000		17351512.52		A	2.8
5	☐	1.000		17522883.77		A	0.2
6	☐	1.000		17565125.85		A	1.0
7	☐	1.000		17102385.44		A	0.9
8	☐	1.000		16352338.37		A	1.0

159 Tb (ISTD) [He]

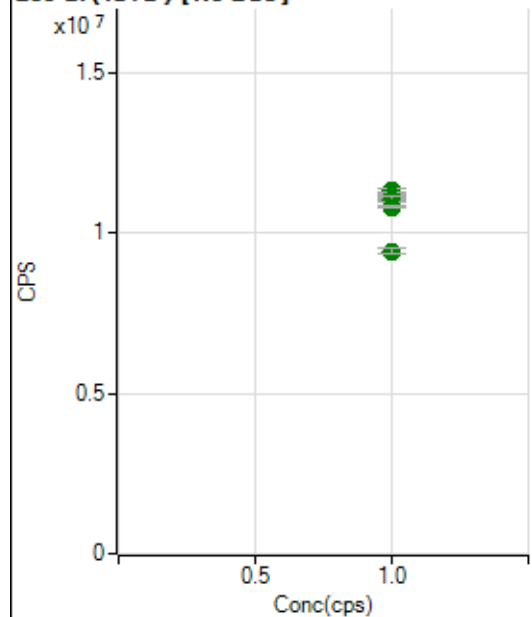
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		9925227.84		A	0.7
2	☐	1.000		10012211.31		A	1.0
3	☐	1.000		9833921.66		A	0.6
4	☐	1.000		9838342.35		A	0.5
5	☐	1.000		9914781.66		A	2.8
6	☐	1.000		9810329.23		A	1.4
7	☐	1.000		9671533.95		A	0.3
8	☐	1.000		9356747.50		A	0.7

165 Ho (ISTD) [No Gas]

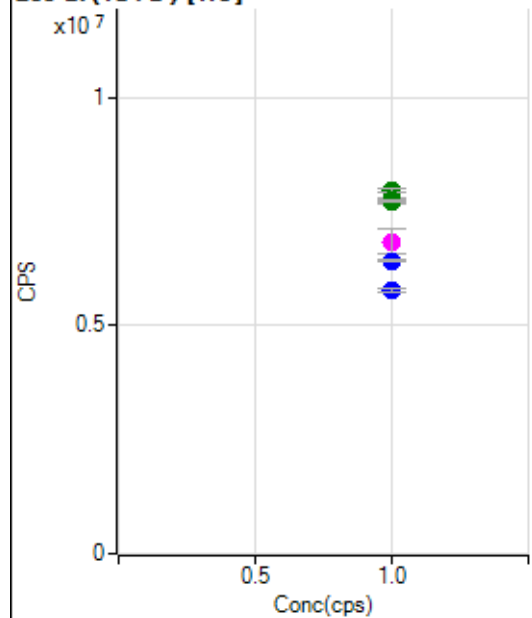
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		16878666.00		A	1.3
2	☐	1.000		16818096.28		A	0.5
3	☐	1.000		16641236.14		A	1.1
4	☐	1.000		16778769.33		A	1.3
5	☐	1.000		16854360.44		A	1.1
6	☐	1.000		16772053.09		A	0.9
7	☐	1.000		16970200.16		A	0.7
8	☐	1.000		16042854.90		A	0.6

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		10065549.64		A	1.1
2	☐	1.000		10058273.95		A	0.7
3	☐	1.000		10033672.63		A	0.8
4	☐	1.000		9918746.03		A	0.7
5	☐	1.000		10009403.53		A	0.6
6	☐	1.000		9770174.50		A	1.1
7	☐	1.000		9859243.60		A	0.6
8	☐	1.000		9595382.84		A	1.1

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		11236529.55		A	1.0
2	☐	1.000		11304537.19		A	1.0
3	☐	1.000		11166657.61		A	1.1
4	☐	1.000		11087129.00		A	1.5
5	☐	1.000		11171173.72		A	1.6
6	☐	1.000		11048806.08		A	1.6
7	☐	1.000		10800270.81		A	0.4
8	☐	1.000		9433711.53		A	1.5

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7953448.14		A	0.9
2	☐	1.000		7764178.57		A	1.3
3	☐	1.000		7753134.81		A	0.3
4	☐	1.000		7707839.40		A	0.9
5	☐	1.000		7729912.66		A	0.4
6	☐	1.000		6842274.69		M	7.6
7	☐	1.000		6419639.77		P	0.9
8	☐	1.000		5769306.93		P	1.0

US EPA Tune Check Sample Report

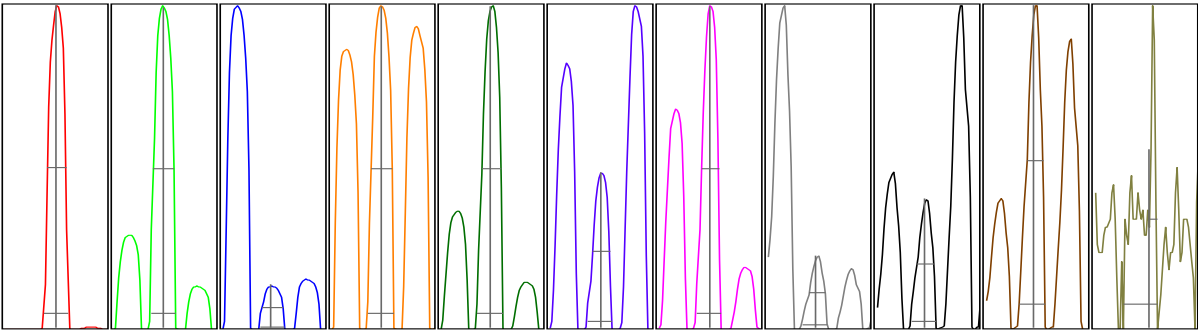
Batch Folder C:\Agilent\ICPMH\1\DATA\P7110920MS2.b
Report Comment
Instrument Name G8403A JP14410463

[No Gas]

Mass	Count (Mean)	RSD% (Actual)	RSD% (Required)	RSD% (Flag)
9	10152	1.36	5.00	
24	137213	1.10	5.00	
25	18628	1.47	5.00	
26	21491	1.64	5.00	
59	79020	1.47	5.00	
113	13284	1.95	5.00	
115	39631	3.70	5.00	
206	16735	1.41	5.00	
207	14288	0.58	5.00	
208	34961	0.56	5.00	
220	1	22.10		

Mass	Replicate 1 Count	Replicate 2 Count	Replicate 3 Count	Replicate 4 Count	Replicate 5 Count
9	10396	10065	10104	10123	10072
24	139759	137064	137024	135942	136275
25	19106	18491	18569	18548	18422
26	22106	21374	21366	21396	21211
59	81041	78716	78812	78365	78168
113	13735	13117	13269	13138	13160
115	41979	39923	39339	38726	38190
206	17098	16517	16801	16725	16535
207	14394	14248	14286	14337	14175
208	35225	34727	34924	35085	34846
220	1	1	1	1	1

Integration Time [sec] = 0.1



Mass	Peak Height	Axis (Actual)	Axis (Required)	Axis (Flag)	Width-X% (Actual)	Width-X% (Required)	Width- X% (Flag)
9	18967	9.05	8.9 - 9.1		0.725	0.900	
24	232827	24.00	23.9 - 24.1		0.741	0.900	
25	31309	24.95	24.9 - 25.1		0.739	0.900	
26	36009	26.00	25.9 - 26.1		0.766	0.900	
59	141110	59.00	58.9 - 59.1		0.762	0.900	
113	26304	113.05	112.9 - 113.1		0.730	0.900	
115	79554	115.05	114.9 - 115.1		0.726	0.900	
206	34530	205.95	205.9 - 206.1		0.746	0.900	
207	29033	206.95	206.9 - 207.1		0.732	0.900	
208	72129	207.95	207.9 - 208.1		0.742	0.900	
220	1	220.15	-		0.979		

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	0.68	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		0.40 L/min

Lenses Parameters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
Extract 1	0.0	V	Omega Lens	10.0	V	Deflect	13.6	V
Extract 2	-185.0	V	Cell Entrance	-30	V	Plate Bias	-35	V
Omega Bias	-90	V	Cell Exit	-50	V			

Cell Parameters

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

[He]

Mass	Count (Mean)	RSD% (Actual)	RSD% (Required)
59	22563	0.42	
89	72457	0.31	
205	49824	0.52	

Mass	Replicate 1 Count	Replicate 2 Count	Replicate 3 Count	Replicate 4 Count	Replicate 5 Count
59	22685	22531	22451	22634	22510
89	72628	72236	72597	72629	72194
205	50163	49896	49470	49888	49701

Integration Time [sec] = 0.1

Tune Parameters

Plasma Paramters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
RF Power	1600	W	Carrier Gas	0.68	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		0.40 L/min

Lenses Parameters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
Extract 1	0.0	V	Omega Lens	10.3	V	Deflect	2.8	V
Extract 2	-190.0	V	Cell Entrance	-40	V	Plate Bias	-60	V
Omega Bias	-90	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			