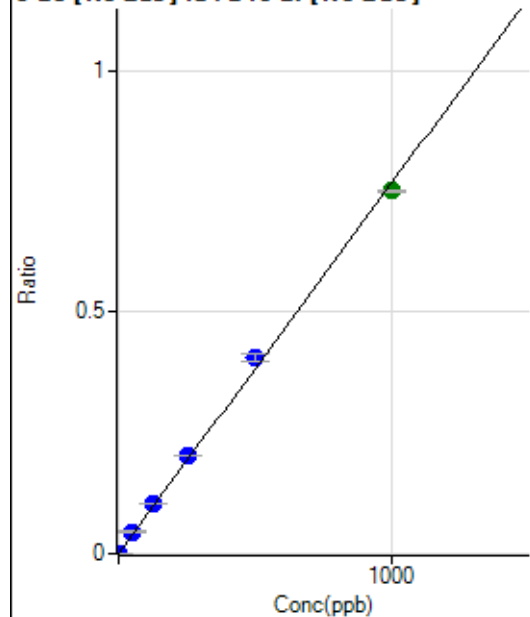


Batch Folder: D:\Agilent\ICPMH\1\DATA\P7121323 MS.b\
Analysis File: P7121323 MS.batch.bin
DA Date-Time: 2023-12-13 15:58:41
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.d	S00	2023-12-13 11:48:13
2	006CALS.d	S02	2023-12-13 11:54:46
3	007CALS.d	S03	2023-12-13 11:58:01
4	008CALS.d	S04	2023-12-13 12:01:06
5	009CALS.d	S05	2023-12-13 12:04:00
6	010CALS.d	S06	2023-12-13 12:06:50
7	011CALS.d	S07	2023-12-13 12:09:36
8	012CALS.d	S08	2023-12-13 12:12:23

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	70.00	0.0000	P	41.5
2	☐	1.000	1.026	2146.83	0.0008	P	2.4
3	☐	50.000	58.799	111024.78	0.0451	P	7.2
4	☐	125.000	133.554	259284.18	0.1025	P	0.7
5	☐	250.000	263.321	491261.58	0.2020	P	0.3
6	☐	500.000	531.366	953263.68	0.4077	P	3.9
7	☐	1000.000	979.478	1758977.86	0.7514	A	0.7
8	☐			1027.83	0.0005	P	19.2

$$y = 7.6716\text{E-}004 * x + 2.6575\text{E-}005$$

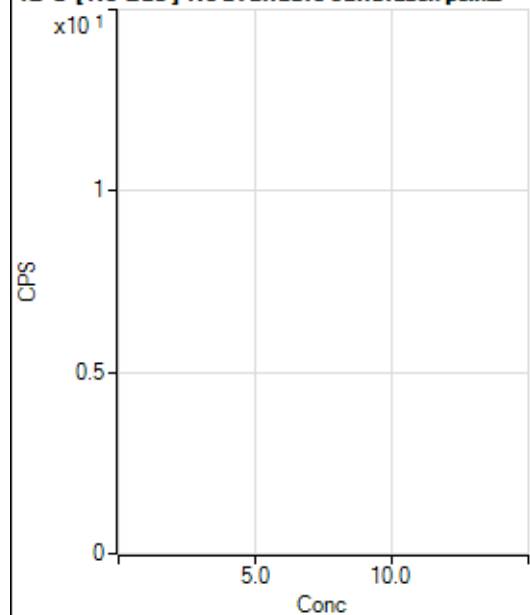
$$R = 0.9992$$

$$DL = 0.04313$$

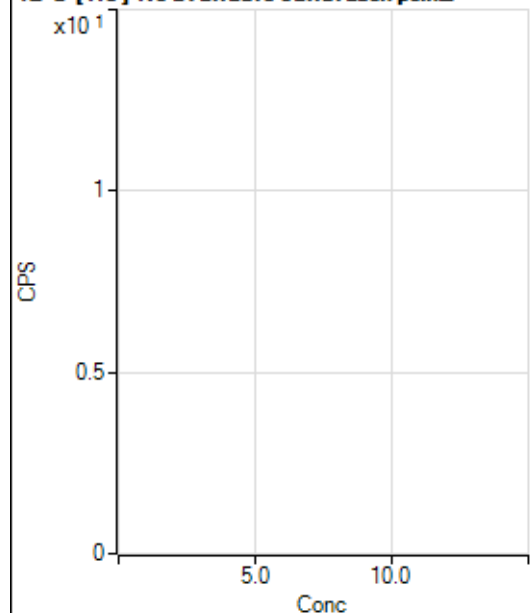
$$BEC = 0.03464$$

Weight: <None>

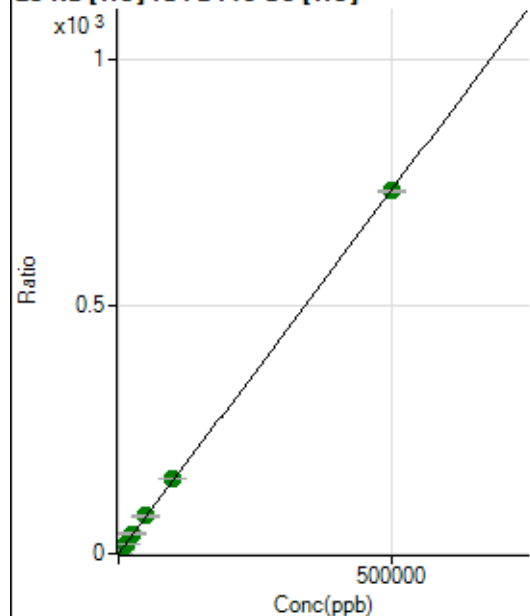
Min Conc: 0

12 C [No Gas] No available calibration points

	R _j 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	18274.28	0.0467	P	2.3
2	☐	500.000	502.716	302708.57	0.7855	P	1.1
3	☐	5000.000	5325.400	2910859.85	7.8732	A	2.0
4	☐	12500.000	13108.053	6784742.82	19.3109	A	2.4
5	☐	25000.000	27512.467	13421760.77	40.4804	A	2.9
6	☐	50000.000	51644.068	26204550.44	75.9453	A	0.6
7	☐	100000.00	102794.05	52525860.33	151.1178	A	0.5
8	☐	500000.00	499132.70	243403709.7	733.5959	A	0.8

$$y = 0.0015 * x + 0.0467$$

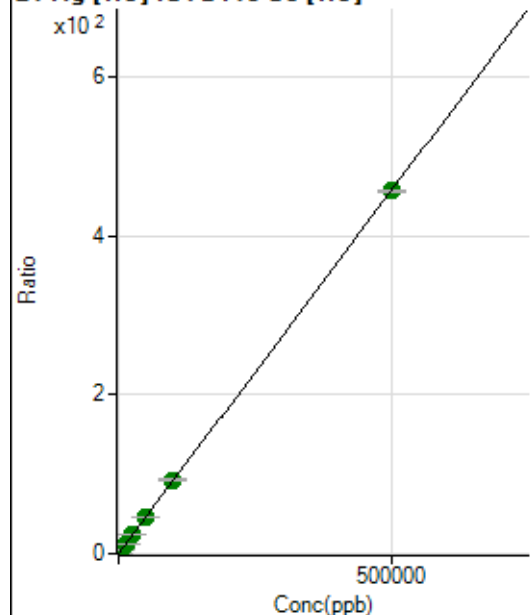
$$R = 1.0000$$

$$DL = 2.217$$

$$BEC = 31.8$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	455.57	0.0012	P	6.9
2	☐	500.000	498.462	176023.08	0.4568	P	0.8
3	☐	5000.000	5343.334	1806139.33	4.8853	A	1.5
4	☐	12500.000	13076.167	4200223.27	11.9535	A	1.9
5	☐	25000.000	27367.038	8294429.74	25.0161	A	3.0
6	☐	50000.000	51188.659	16144795.04	46.7903	A	0.4
7	☐	100000.00	101714.12	32315398.41	92.9733	A	0.8
8	☐	500000.00	499402.12	151461099.9	456.4813	A	0.5

$$y = 9.1405\text{E-}004 * x + 0.0012$$

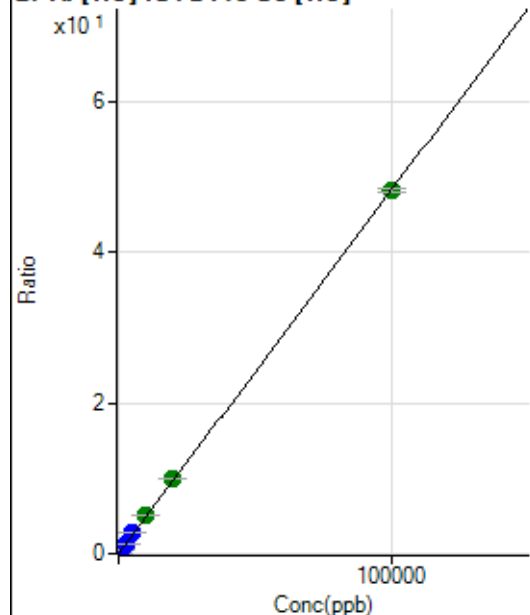
$$R = 1.0000$$

$$DL = 0.263$$

$$BEC = 1.274$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	186.67	0.0005	P	14.2
2	☐	20.000	19.747	3852.74	0.0100	P	1.8
3	☐	1000.000	1118.012	199470.90	0.5395	P	1.3
4	☐	2500.000	2754.917	466926.71	1.3287	P	1.6
5	☐	5000.000	5791.102	925758.76	2.7926	P	3.7
6	☐	10000.000	10461.149	1740454.94	5.0442	A	1.2
7	☐	20000.000	20699.248	3468944.85	9.9804	A	0.9
8	☐	100000.00	99766.927	15959719.48	48.1018	A	1.0

$$y = 4.8214\text{E-}004 * x + 4.7745\text{E-}004$$

$$R = 1.0000$$

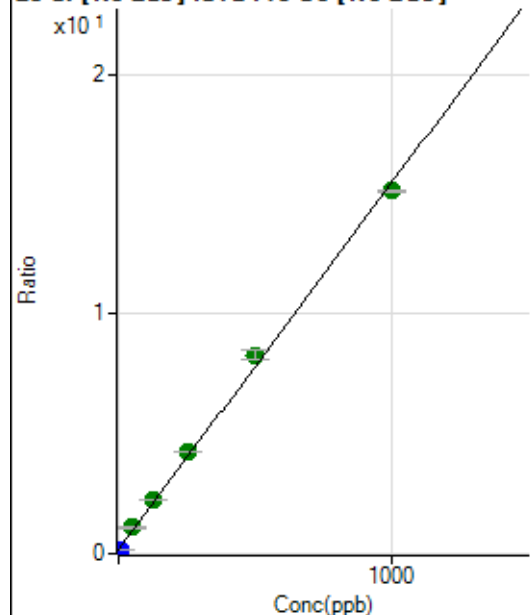
$$DL = 0.423$$

$$BEC = 0.9903$$

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	823139.38	0.1680	P	0.4
2	☐	10.000	0.293	841273.01	0.1724	P	0.9
3	☐	50.000	60.733	4912410.87	1.0962	A	8.8
4	☐	125.000	135.417	9983254.78	2.2377	A	0.1
5	☐	250.000	266.668	17886642.10	4.2437	A	0.9
6	☐	500.000	530.890	33747513.11	8.2820	A	4.5
7	☐	1000.000	978.646	63596586.28	15.1254	A	0.8
8	☐			846952.46	0.2062	P	1.5

$$y = 0.0153 * x + 0.1680$$

R = 0.9989

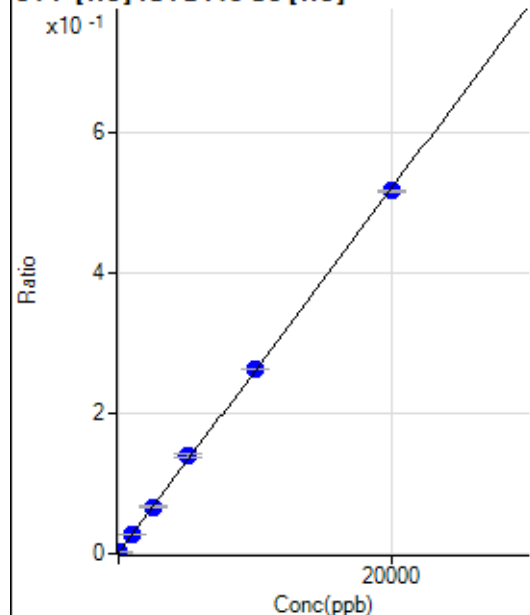
DL = 0.1439

BEC = 10.99

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	-16.694	310.01	0.0008	P	8.7
2	☐	0.000	16.694	638.91	0.0017	P	3.5
3	☐	1000.000	1015.621	10181.24	0.0275	P	2.8
4	☐	2500.000	2537.725	23531.52	0.0670	P	3.6
5	☐	5000.000	5336.497	46238.56	0.1395	P	4.0
6	☐	10000.000	10097.398	90690.97	0.2628	P	0.4
7	☐	20000.000	19861.680	179289.62	0.5158	P	0.6
8	☐			370.01	0.0011	P	2.1

$$y = 2.5909E-005 * x + 0.0012$$

R = 0.9998

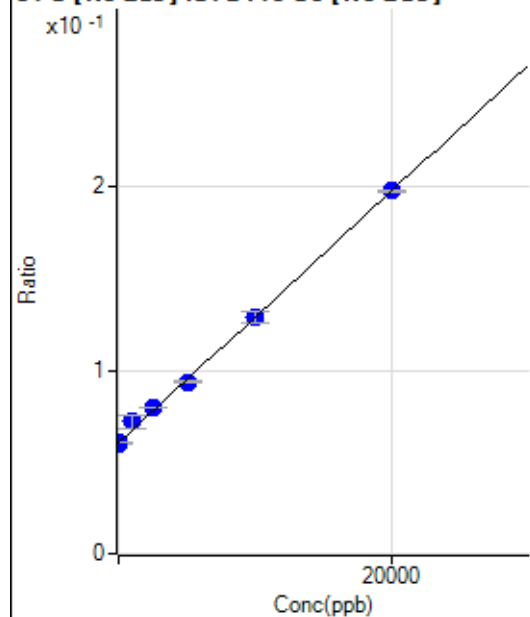
DL = 7.358

BEC = 47.29

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	-36.451	295645.93	0.0603	P	0.4
2	☐	0.000	36.451	296760.00	0.0608	P	0.4
3	☐	1000.000	1664.185	322630.83	0.0720	P	9.2
4	☐	2500.000	2726.781	353865.19	0.0793	P	0.1
5	☐	5000.000	4849.146	395810.21	0.0939	P	1.2
6	☐	10000.000	9954.690	525521.54	0.1290	P	5.2
7	☐	20000.000	19998.812	832663.54	0.1980	P	0.6
8	☐			209425.63	0.0510	P	4.4

$$y = 6.8733\text{E-}006 * x + 0.0606$$

R = 0.9994

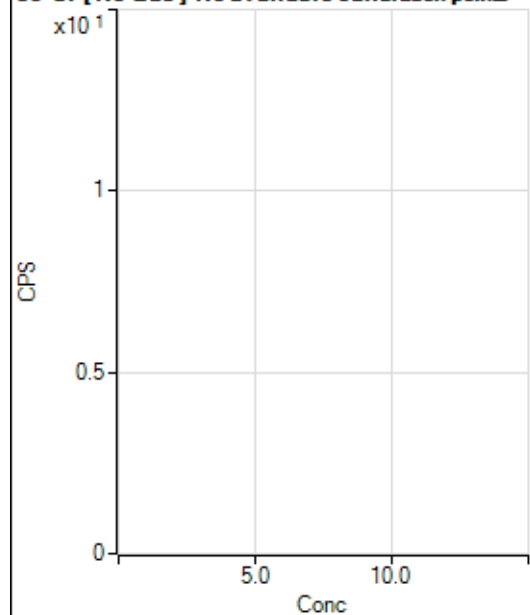
DL = 104.7

BEC = 8813

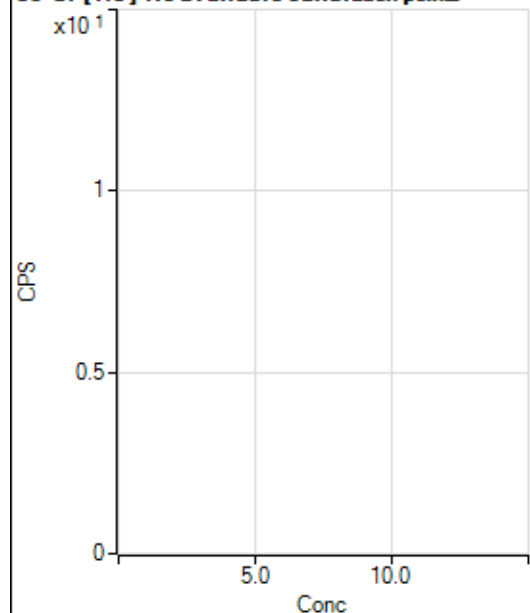
Weight: <None>

Min Conc: 0

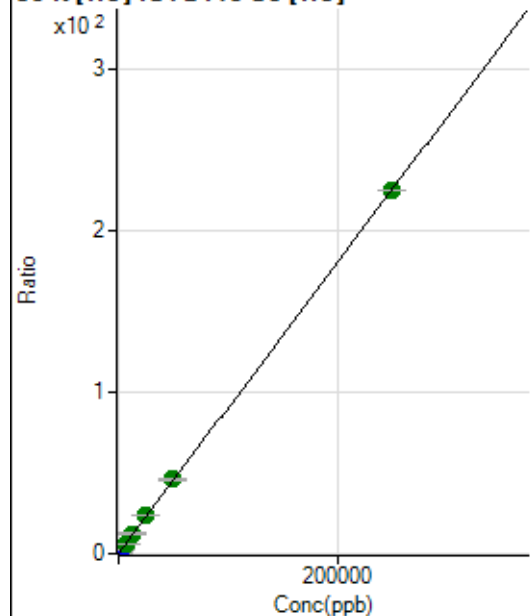
35 Cl [No Gas] No available calibration points



	R _j 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	59129.81	0.1512	P	0.3
2	☐	500.000	512.301	235995.87	0.6124	P	0.8
3	☐	2500.000	2857.333	1006974.00	2.7236	P	1.2
4	☐	6250.000	6420.358	2083837.78	5.9313	A	2.8
5	☐	12500.000	13589.047	4106039.25	12.3852	A	3.4
6	☐	25000.000	25775.208	8058838.21	23.3561	A	0.7
7	☐	50000.000	50825.554	15956971.98	45.9084	A	1.0
8	☐	250000.00	249695.05	74637920.55	224.9468	A	0.1

$$y = 9.0028\text{E-}004 * x + 0.1512$$

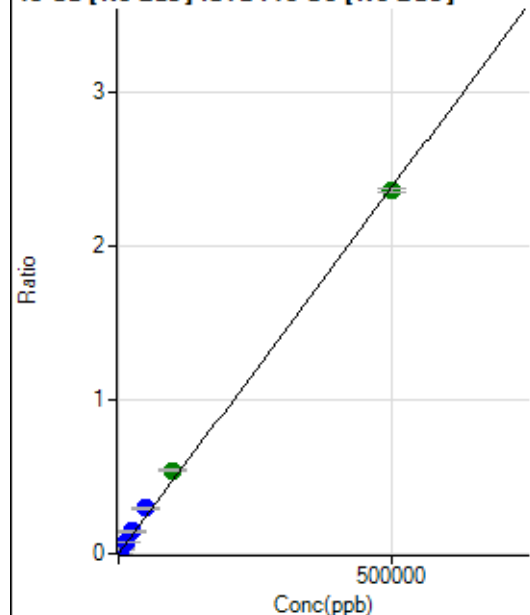
$$R = 1.0000$$

$$DL = 1.5$$

$$BEC = 167.9$$

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	714.47	0.0001	P	7.5
2	☐	500.000	492.593	12168.30	0.0025	P	1.8
3	☐	5000.000	6494.405	139279.96	0.0311	P	10.0
4	☐	12500.000	15099.095	321719.24	0.0721	P	1.2
5	☐	25000.000	30294.893	609243.62	0.1446	P	1.7
6	☐	50000.000	62046.844	1205832.99	0.2959	P	4.3
7	☐	100000.00	114199.17	2289506.89	0.5445	A	1.1
8	☐	500000.00	495610.82	9701864.16	2.3626	A	1.0

$$y = 4.7668\text{E-}006 * x + 1.4579\text{E-}004$$

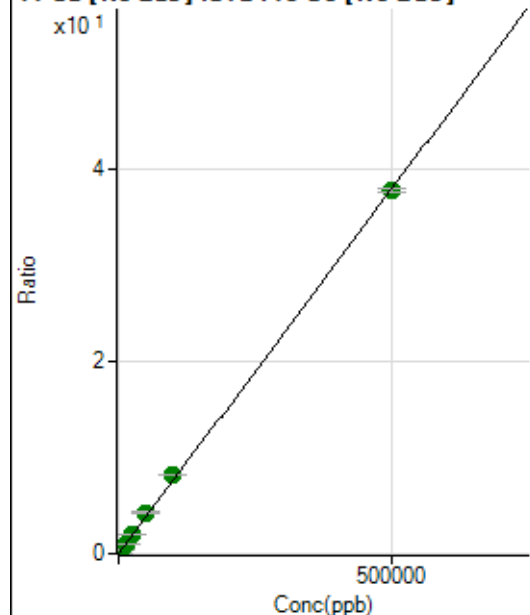
$$R = 0.9994$$

$$DL = 6.871$$

$$BEC = 30.58$$

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	7693.16	0.0016	P	2.6
2	☐	500.000	503.716	193617.66	0.0397	P	1.0
3	☐	5000.000	5867.379	1996964.15	0.4455	A	8.5
4	☐	12500.000	13524.226	4572138.23	1.0249	A	0.9
5	☐	25000.000	27318.801	8719040.22	2.0687	A	1.4
6	☐	50000.000	56049.205	17290581.97	4.2426	A	4.0
7	☐	100000.00	107478.43	34202449.21	8.1341	A	0.4
8	☐	500000.00	497749.17	154663916.5	37.6646	A	1.1

$$y = 7.5667\text{E-}005 * x + 0.0016$$

$$R = 0.9998$$

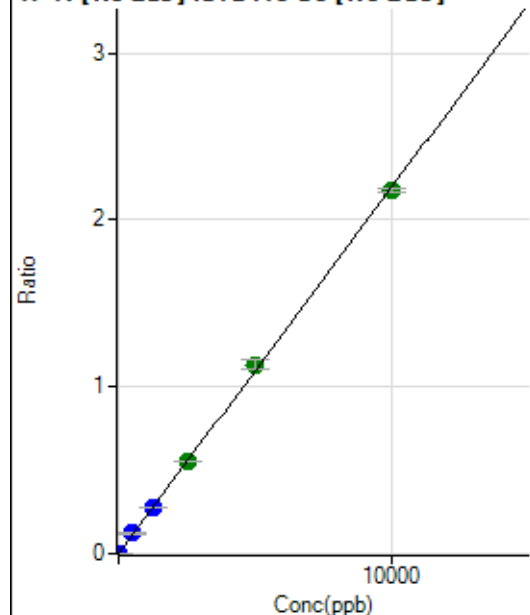
$$DL = 1.636$$

$$BEC = 20.74$$

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	121.11	0.0000	P	17.0
2	☐	5.000	4.785	5242.07	0.0011	P	3.4
3	☐	500.000	552.365	542868.78	0.1212	P	9.6
4	☐	1250.000	1278.587	1251419.93	0.2805	P	0.8
5	☐	2500.000	2513.010	2323641.72	0.5513	A	1.5
6	☐	5000.000	5165.223	4617379.44	1.1332	A	4.5
7	☐	10000.000	9907.944	9139186.25	2.1736	A	1.2
8	☐			3889.43	0.0009	P	14.0

$$y = 2.1938\text{E-}004 * x + 2.4726\text{E-}005$$

$$R = 0.9998$$

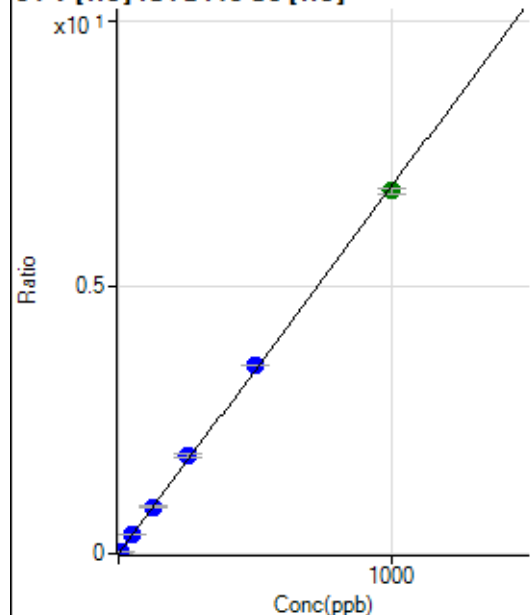
$$DL = 0.05753$$

$$BEC = 0.1127$$

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	5.55	0.0000	P	125.
2	☐	5.000	4.710	12511.92	0.0325	P	1.8
3	☐	50.000	52.682	134239.55	0.3631	P	0.9
4	☐	125.000	126.908	307285.14	0.8746	P	2.5
5	☐	250.000	268.500	613387.25	1.8504	P	4.0
6	☐	500.000	514.129	1222550.68	3.5432	P	0.2
7	☐	1000.000	987.939	2366478.68	6.8084	A	1.6
8	☐			751.14	0.0023	P	3.2

$$y = 0.0069 * x + 1.4230\text{E-}005$$

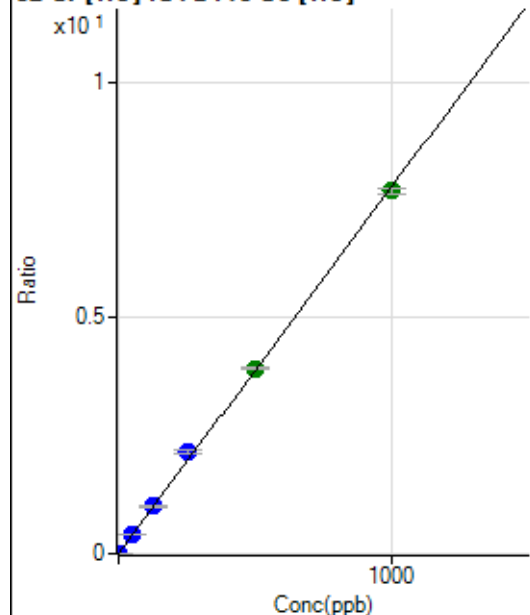
$$R = 0.9996$$

$$DL = 0.00775$$

$$BEC = 0.002065$$

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	1078.94	0.0028	P	7.8
2	☐	2.000	1.984	7007.25	0.0182	P	3.9
3	☐	50.000	53.783	155619.04	0.4209	P	0.2
4	☐	125.000	130.147	356396.10	1.0146	P	3.4
5	☐	250.000	277.567	716221.21	2.1607	P	4.1
6	☐	500.000	505.733	1357588.17	3.9346	A	1.1
7	☐	1000.000	989.409	2674485.74	7.6949	A	1.7
8	☐			14799.56	0.0446	P	1.0

$$y = 0.0078 * x + 0.0028$$

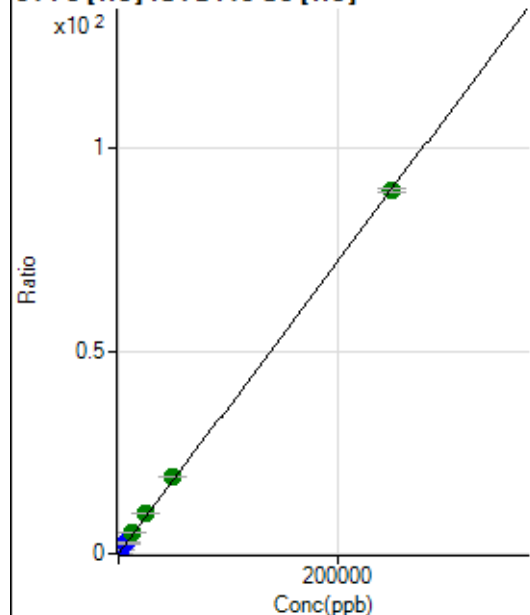
$$R = 0.9995$$

$$DL = 0.08287$$

$$BEC = 0.3549$$

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	1074.49	0.0027	P	6.2
2	☐	50.000	55.527	8754.84	0.0227	P	0.8
3	☐	2500.000	2986.791	398180.84	1.0770	P	1.3
4	☐	6250.000	7284.233	921553.80	2.6226	P	1.6
5	☐	12500.000	14420.032	1720178.92	5.1890	A	3.9
6	☐	25000.000	27266.960	3384704.81	9.8095	A	0.5
7	☐	50000.000	53122.757	6641711.71	19.1088	A	1.2
8	☐	250000.00	249022.02	29717078.17	89.5654	A	1.1

$$y = 3.5966E-004 * x + 0.0027$$

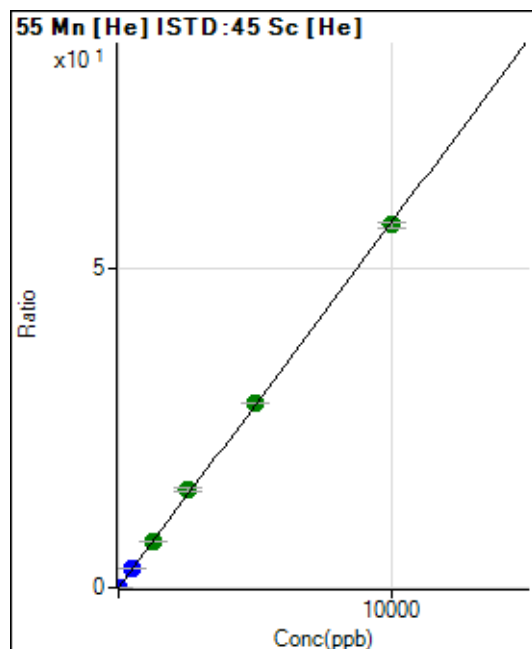
$$R = 0.9999$$

$$DL = 1.41$$

$$BEC = 7.64$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	55.55	0.0001	P	7.2
2	☐	1.000	0.949	2141.28	0.0056	P	5.2
3	☐	500.000	533.308	1124891.25	3.0426	P	1.2
4	☐	1250.000	1253.658	2513382.22	7.1520	A	1.4
5	☐	2500.000	2684.685	5077771.49	15.3158	A	3.3
6	☐	5000.000	5039.719	9920395.75	28.7508	A	0.3
7	☐	10000.000	9931.847	19693419.43	56.6595	A	1.3
8	☐			11647.93	0.0351	P	4.6

$$y = 0.0057 * x + 1.4207E-004$$

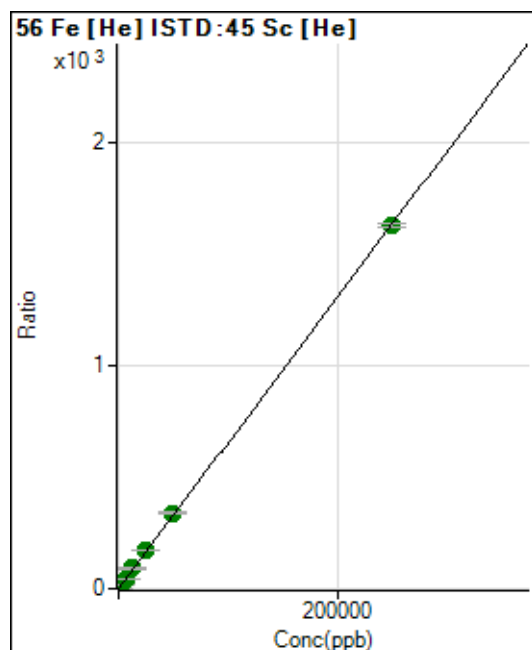
$$R = 0.9998$$

$$DL = 0.005394$$

$$BEC = 0.0249$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	6055.72	0.0155	P	3.6
2	☐	50.000	53.435	140081.98	0.3635	P	0.5
3	☐	2500.000	2712.465	6537451.50	17.6819	A	1.6
4	☐	6250.000	6607.777	15127818.66	43.0523	A	1.8
5	☐	12500.000	14092.081	30430423.99	91.7980	A	3.9
6	☐	25000.000	26443.951	59433006.89	172.2464	A	0.1
7	☐	50000.000	52096.645	117942591.5	339.3239	A	0.6
8	☐	250000.00	249345.60	538835800.8	1,624.017	A	0.9

$$y = 0.0065 * x + 0.0155$$

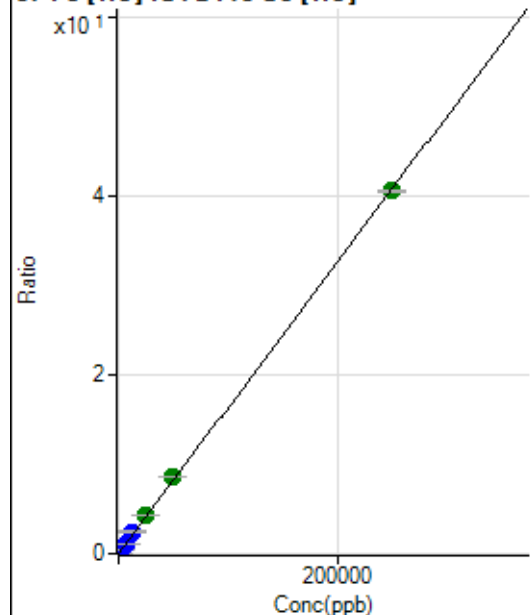
$$R = 0.9999$$

$$DL = 0.2534$$

$$BEC = 2.378$$

Weight: <None>

Min Conc: 0

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

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	711.13	0.0018	P	11.7
2	☐	50.000	56.839	4265.08	0.0111	P	5.1
3	☐	2500.000	2929.702	176969.97	0.4786	P	0.6
4	☐	6250.000	7123.851	407954.65	1.1613	P	2.9
5	☐	12500.000	15140.039	817442.27	2.4659	P	3.9
6	☐	25000.000	26578.106	1493194.84	4.3275	A	0.3
7	☐	50000.000	52537.561	2972705.44	8.5525	A	0.6
8	☐	250000.00	249176.53	13456330.91	40.5564	A	0.9

$$y = 1.6275E-004 * x + 0.0018$$

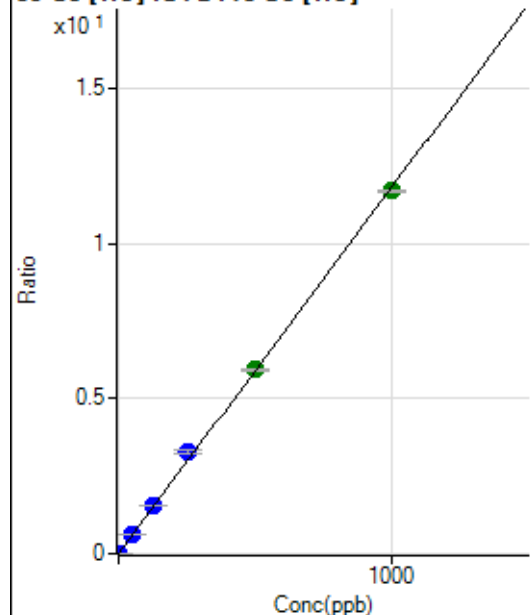
R = 0.9999

DL = 3.911

BEC = 11.17

Weight: <None>

Min Conc: 0

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

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	55.55	0.0001	P	12.5
2	☐	1.000	1.040	4788.59	0.0124	P	3.2
3	☐	50.000	54.270	237123.27	0.6414	P	1.3
4	☐	125.000	131.052	544090.91	1.5486	P	2.2
5	☐	250.000	276.373	1082600.52	3.2656	P	3.6
6	☐	500.000	502.898	2050253.67	5.9420	A	0.8
7	☐	1000.000	990.988	4069799.14	11.7090	A	0.8
8	☐			11877.01	0.0358	P	1.5

$$y = 0.0118 * x + 1.4205E-004$$

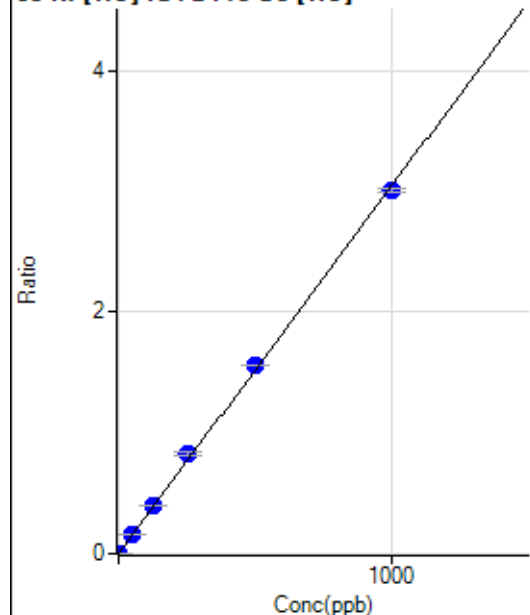
R = 0.9996

DL = 0.004497

BEC = 0.01202

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	88.89	0.0002	P	14.5
2	☐	1.000	1.032	1297.84	0.0034	P	6.7
3	☐	50.000	53.694	60457.78	0.1635	P	1.4
4	☐	125.000	130.381	139394.42	0.3968	P	2.6
5	☐	250.000	273.195	275508.86	0.8311	P	3.8
6	☐	500.000	512.330	537707.61	1.5584	P	0.3
7	☐	1000.000	987.179	1043599.22	3.0025	P	1.0
8	☐			4826.38	0.0145	P	1.3

$$y = 0.0030 * x + 2.2735E-004$$

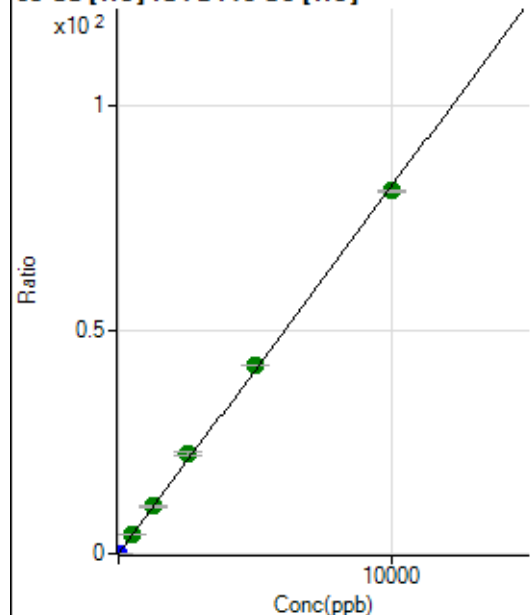
$$R = 0.9996$$

$$DL = 0.03251$$

$$BEC = 0.07476$$

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	4635.20	0.0119	P	2.6
2	☐	2.000	1.891	10552.70	0.0274	P	0.6
3	☐	500.000	542.754	1652803.99	4.4701	A	1.4
4	☐	1250.000	1298.608	3751561.37	10.6788	A	2.9
5	☐	2500.000	2710.405	7384012.32	22.2755	A	4.1
6	☐	5000.000	5124.626	14528624.78	42.1062	A	0.5
7	☐	10000.000	9876.872	28203234.58	81.1418	A	0.7
8	☐			11048.59	0.0333	P	6.8

$$y = 0.0082 * x + 0.0119$$

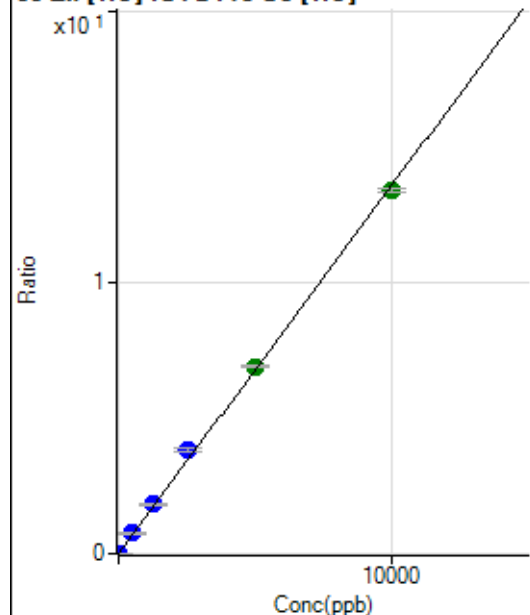
$$R = 0.9996$$

$$DL = 0.1138$$

$$BEC = 1.443$$

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	284.45	0.0007	P	24.1
2	☐	5.000	4.789	2785.84	0.0072	P	3.1
3	☐	500.000	549.140	275935.02	0.7463	P	0.8
4	☐	1250.000	1347.899	643205.03	1.8308	P	2.7
5	☐	2500.000	2831.672	1274814.55	3.8454	P	3.6
6	☐	5000.000	5084.660	2382341.09	6.9043	A	0.8
7	☐	10000.000	9860.058	4653487.02	13.3880	A	1.0
8	☐			5039.78	0.0152	P	3.6

$$y = 0.0014 * x + 7.2702E-004$$

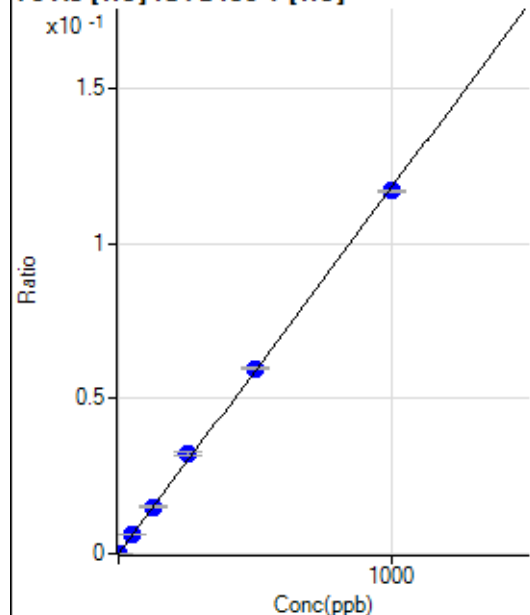
$$R = 0.9993$$

$$DL = 0.3865$$

$$BEC = 0.5355$$

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	0.00	0.0000	P	
2	☐	1.000	1.111	385.56	0.0001	P	10.2
3	☐	50.000	53.334	17656.14	0.0063	P	2.2
4	☐	125.000	128.527	40735.76	0.0152	P	0.8
5	☐	250.000	271.090	80765.81	0.0320	P	4.0
6	☐	500.000	505.946	158926.06	0.0598	P	1.4
7	☐	1000.000	991.146	317295.34	0.1172	P	0.5
8	☐			198.89	0.0001	P	9.2

$$y = 1.1821E-004 * x + 0.0000E+000$$

$$R = 0.9997$$

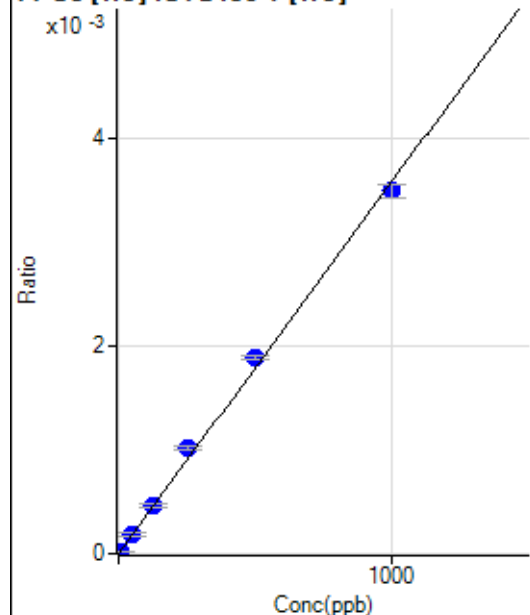
$$DL = 0$$

$$BEC = 0$$

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	4.222	44.44	0.0000	P	3.5
3	☐	50.000	51.481	516.68	0.0002	P	13.2
4	☐	125.000	129.075	1240.07	0.0005	P	6.8
5	☐	250.000	284.561	2571.36	0.0010	P	4.1
6	☐	500.000	528.843	5038.68	0.0019	P	1.7
7	☐	1000.000	976.359	9478.67	0.0035	P	3.4
8	☐			65.56	0.0000	P	17.7

$$y = 3.5850\text{E-}006 * x + 0.0000\text{E+}000$$

$$R = 0.9986$$

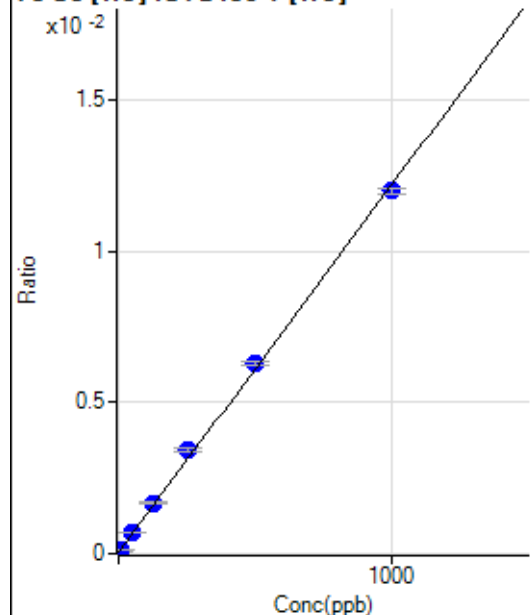
$$DL = 0$$

$$BEC = 0$$

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	125.56	0.0000	P	31.3
2	☐	5.000	5.077	306.67	0.0001	P	9.9
3	☐	50.000	54.272	1964.60	0.0007	P	6.6
4	☐	125.000	133.532	4457.37	0.0017	P	4.2
5	☐	250.000	277.349	8590.35	0.0034	P	3.9
6	☐	500.000	514.824	16712.86	0.0063	P	1.8
7	☐	1000.000	984.470	32466.68	0.0120	P	1.5
8	☐			243.34	0.0001	P	22.0

$$y = 1.2134\text{E-}005 * x + 4.2912\text{E-}005$$

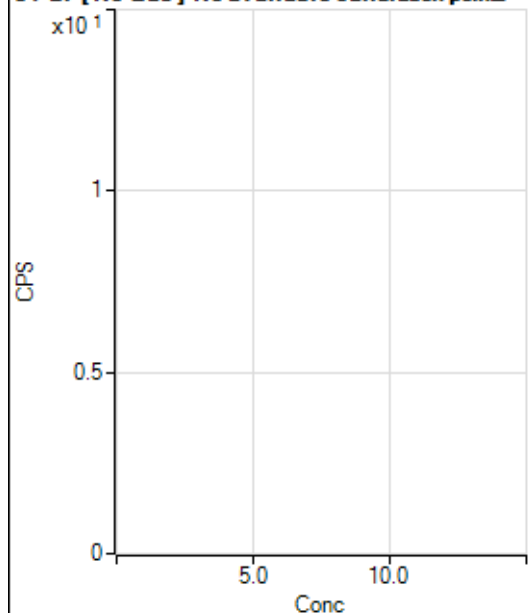
$$R = 0.9994$$

$$DL = 3.316$$

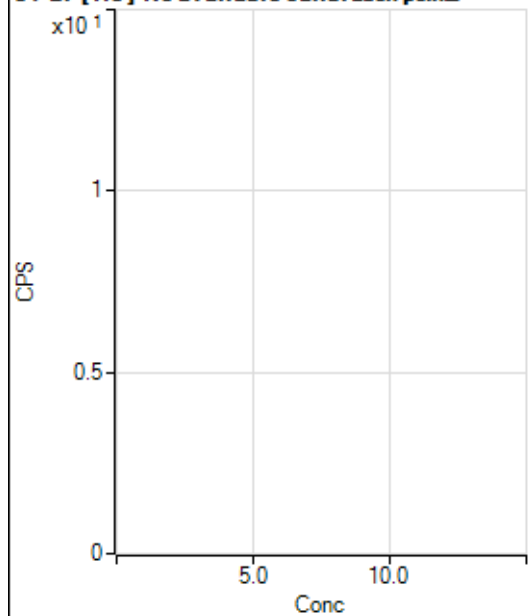
$$BEC = 3.537$$

Weight: <None>

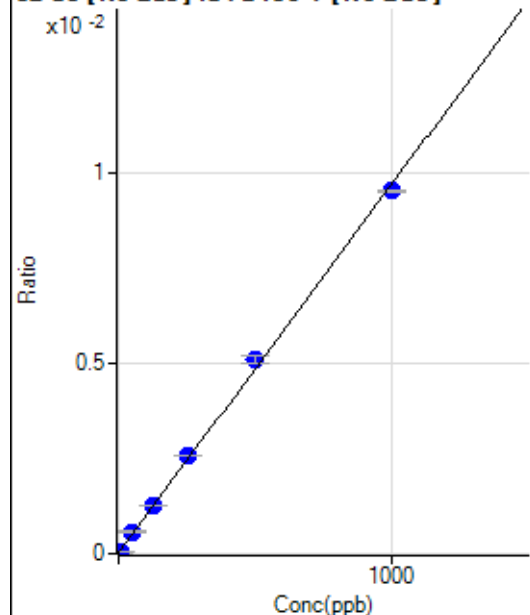
Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			9615.46		P	2.7
2	☐			9810.00		P	1.7
3	☐			9190.74		P	1.2
4	☐			8294.61		P	0.6
5	☐			8017.81		P	2.0
6	☐			8048.96		P	3.7
7	☐			8386.90		P	2.0
8	☐			10146.91		P	4.0

81 Br [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			106.67		P	13.6
2	☐			121.11		P	23.4
3	☐			97.78		P	18.8
4	☐			87.78		P	21.6
5	☐			77.78		P	19.3
6	☐			90.00		P	9.8
7	☐			110.00		P	24.1
8	☐			303.34		P	15.8

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	283.38	0.0000	P	13.7
2	☐	5.000	4.755	889.50	0.0001	P	7.3
3	☐	50.000	56.346	6952.09	0.0006	P	9.1
4	☐	125.000	129.745	15965.59	0.0013	P	0.4
5	☐	250.000	263.016	30662.69	0.0026	P	1.0
6	☐	500.000	525.838	59551.57	0.0051	P	4.6
7	☐	1000.000	982.918	114833.06	0.0095	P	0.4
8	☐			910.98	0.0001	P	3.4

$$y = 9.6612\text{E-}006 * x + 2.1466\text{E-}005$$

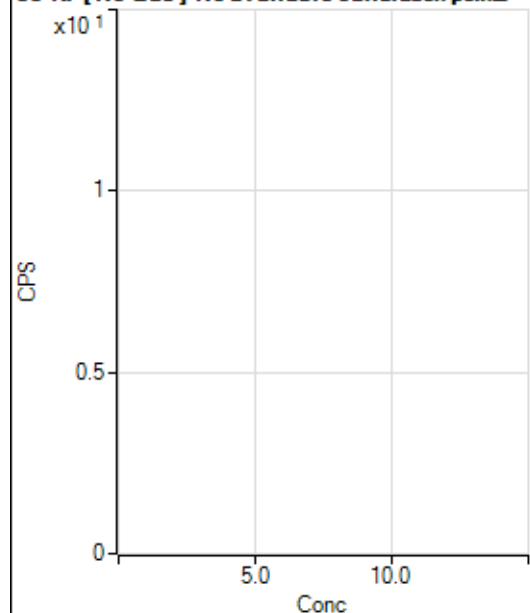
$$R = 0.9994$$

$$DL = 0.9143$$

$$BEC = 2.222$$

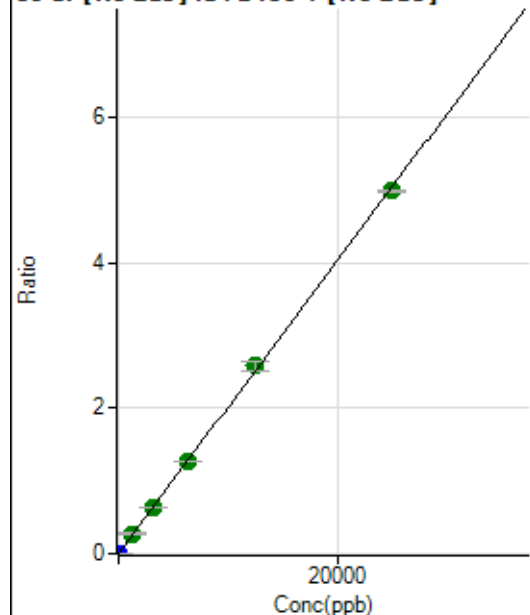
Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			157.78		P	6.8
2	☐			153.34		P	4.3
3	☐			164.45		P	5.1
4	☐			141.11		P	28.0
5	☐			125.56		P	33.2
6	☐			170.00		P	39.4
7	☐			160.00		P	9.1
8	☐			168.89		P	25.0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	254.45	0.0000	P	1.4
2	☐	1.000	0.889	2615.82	0.0002	P	3.9
3	☐	1250.000	1345.383	3325028.56	0.2707	A	9.6
4	☐	3125.000	3102.957	7819224.40	0.6244	A	0.8
5	☐	6250.000	6344.088	15275890.88	1.2766	A	0.4
6	☐	12500.000	12872.439	30230478.72	2.5903	A	5.1
7	☐	25000.000	24788.245	60181368.55	4.9880	A	0.3
8	☐			22178.38	0.0019	P	20.4

$$y = 2.0122\text{E-}004 * x + 1.9272\text{E-}005$$

$$R = 0.9998$$

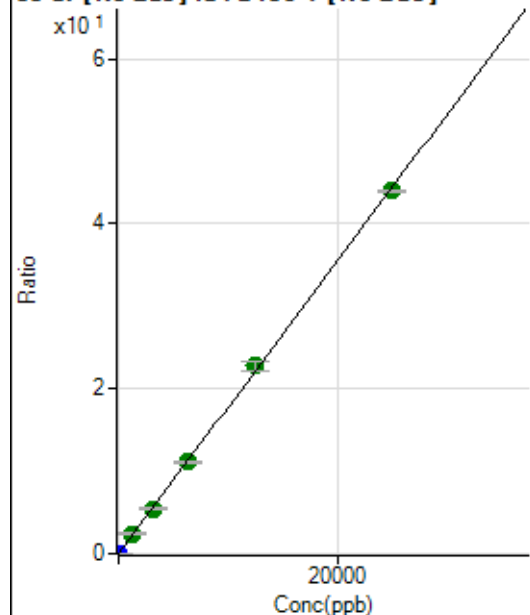
$$DL = 0.003891$$

$$BEC = 0.09577$$

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	150.00	0.0000	P	2.3
2	☐	1.000	0.931	21901.96	0.0017	P	0.8
3	☐	1250.000	1330.492	28934341.79	2.3561	A	9.8
4	☐	3125.000	3088.648	68493085.65	5.4695	A	1.0
5	☐	6250.000	6283.818	133149273.5	11.1277	A	1.2
6	☐	12500.000	12831.910	265194413.8	22.7233	A	5.3
7	☐	25000.000	24826.110	530443054.3	43.9632	A	0.3
8	☐			194522.63	0.0171	P	20.8

$$y = 0.0018 * x + 1.1361\text{E-}005$$

$$R = 0.9999$$

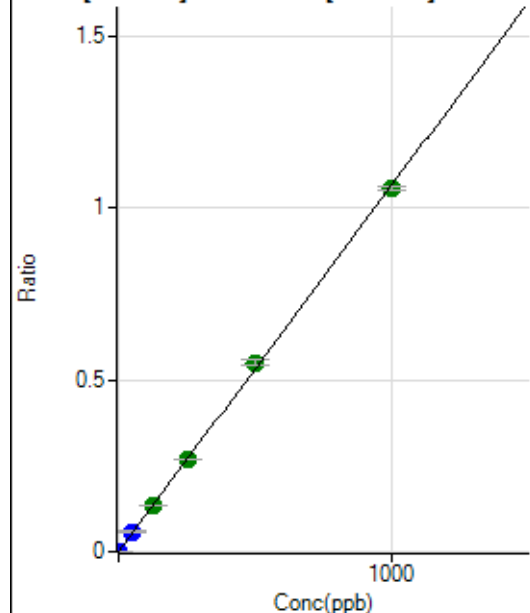
$$DL = 0.0004483$$

$$BEC = 0.006416$$

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	502.24	0.0000	P	8.1
2	☐	1.000	0.903	13203.82	0.0010	P	0.6
3	☐	50.000	54.718	716942.49	0.0584	P	9.3
4	☐	125.000	124.291	1659648.90	0.1325	A	0.7
5	☐	250.000	252.349	3219256.93	0.2690	A	1.3
6	☐	500.000	516.978	6435219.35	0.5511	A	3.7
7	☐	1000.000	990.777	12743735.23	1.0562	A	1.0
8	☐			9337.50	0.0008	P	9.4

$$y = 0.0011 * x + 3.8041E-005$$

$$R = 0.9998$$

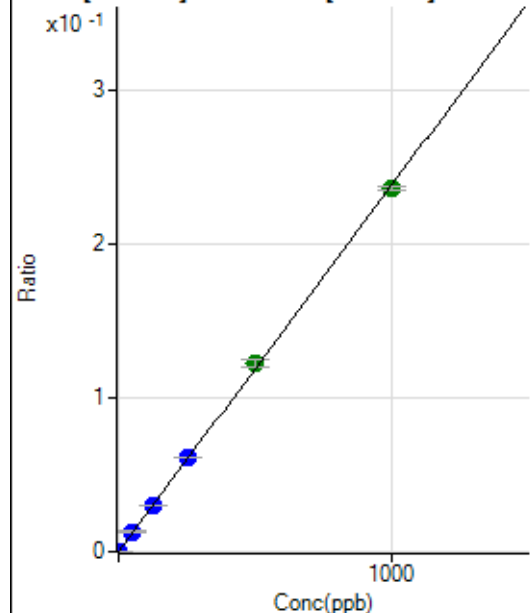
$$DL = 0.008659$$

$$BEC = 0.03569$$

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	96.67	0.0000	P	21.0
2	☐	1.000	0.902	2933.65	0.0002	P	4.6
3	☐	50.000	54.777	160411.28	0.0131	P	9.8
4	☐	125.000	125.977	376093.00	0.0300	P	0.8
5	☐	250.000	256.417	731386.44	0.0611	P	1.2
6	☐	500.000	514.838	1432658.21	0.1227	A	4.2
7	☐	1000.000	990.616	2848991.80	0.2361	A	1.0
8	☐			2079.06	0.0002	P	11.8

$$y = 2.3834E-004 * x + 7.3213E-006$$

$$R = 0.9998$$

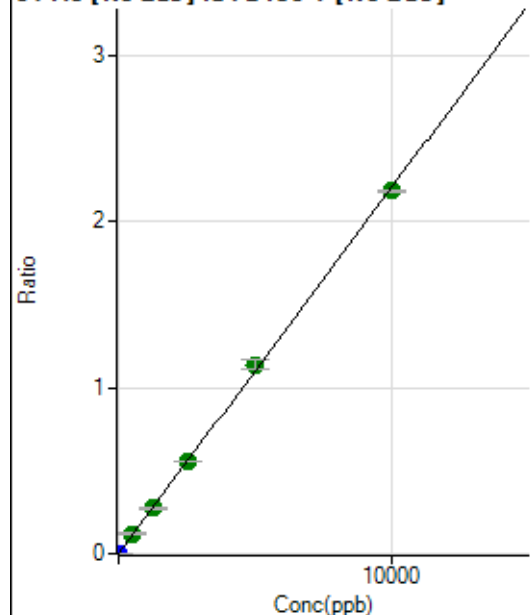
$$DL = 0.01931$$

$$BEC = 0.03072$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	193.34	0.0000	P	6.0
2	☐	5.000	5.264	15489.40	0.0012	P	0.9
3	☐	500.000	538.572	1456284.65	0.1186	A	10.0
4	☐	1250.000	1237.599	3412815.12	0.2725	A	1.0
5	☐	2500.000	2516.206	6630068.65	0.5541	A	0.7
6	☐	5000.000	5164.062	13270731.47	1.1371	A	5.2
7	☐	10000.000	9913.539	26338822.11	2.1830	A	0.4
8	☐			13497.48	0.0012	P	13.6

$$y = 2.2020\text{E-}004 * x + 1.4642\text{E-}005$$

$$R = 0.9998$$

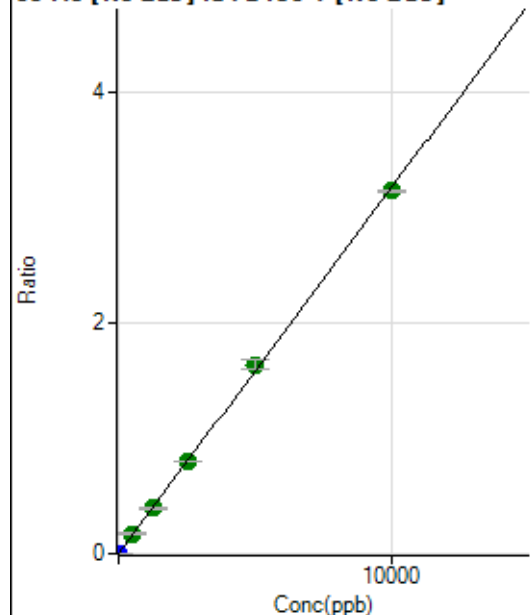
$$DL = 0.01205$$

$$BEC = 0.0665$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	31.11	0.0000	P	32.9
2	☐	5.000	4.570	19132.60	0.0014	P	1.2
3	☐	500.000	534.823	2079980.52	0.1694	A	9.8
4	☐	1250.000	1239.320	4915262.60	0.3925	A	0.8
5	☐	2500.000	2512.799	9522961.39	0.7958	A	0.7
6	☐	5000.000	5166.339	19095944.99	1.6363	A	5.2
7	☐	10000.000	9913.225	37881676.94	3.1397	A	0.2
8	☐			18010.20	0.0016	P	12.1

$$y = 3.1671\text{E-}004 * x + 2.3572\text{E-}006$$

$$R = 0.9998$$

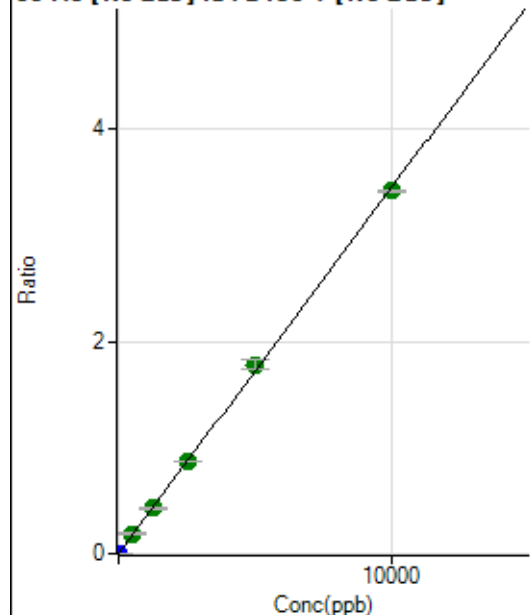
$$DL = 0.007342$$

$$BEC = 0.007443$$

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	91.11	0.0000	P	14.9
2	☐	5.000	4.522	20675.79	0.0016	P	0.6
3	☐	500.000	542.626	2298090.24	0.1872	A	10.2
4	☐	1250.000	1236.991	5343790.90	0.4267	A	1.6
5	☐	2500.000	2521.384	10407718.80	0.8698	A	1.0
6	☐	5000.000	5162.263	20783237.47	1.7808	A	5.2
7	☐	10000.000	9913.018	41261633.55	3.4196	A	0.7
8	☐			23915.38	0.0021	P	13.0

$$y = 3.4496\text{E-}004 * x + 6.9014\text{E-}006$$

$$R = 0.9998$$

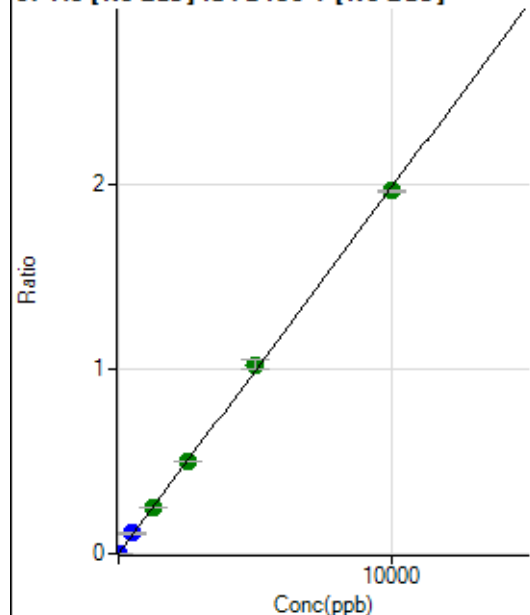
$$DL = 0.008924$$

$$BEC = 0.02001$$

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	22.22	0.0000	P	52.8
2	☐	5.000	4.531	11869.35	0.0009	P	0.9
3	☐	500.000	553.733	1347461.75	0.1097	P	9.5
4	☐	1250.000	1253.039	3108947.00	0.2483	A	0.9
5	☐	2500.000	2524.422	5984920.12	0.5002	A	0.7
6	☐	5000.000	5168.787	11951962.05	1.0241	A	5.1
7	☐	10000.000	9906.435	23683046.04	1.9628	A	0.9
8	☐			10960.92	0.0010	P	15.2

$$y = 1.9813\text{E-}004 * x + 1.6834\text{E-}006$$

$$R = 0.9998$$

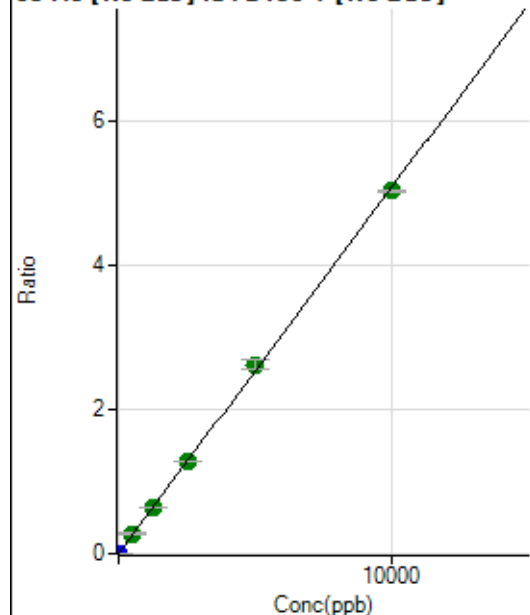
$$DL = 0.01346$$

$$BEC = 0.008497$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	36.67	0.0000	P	9.0
2	☐	5.000	4.530	30440.56	0.0023	P	1.4
3	☐	500.000	538.687	3363924.67	0.2740	A	9.9
4	☐	1250.000	1244.846	7928101.13	0.6331	A	0.7
5	☐	2500.000	2530.577	15399632.69	1.2870	A	1.3
6	☐	5000.000	5158.216	30616500.93	2.6234	A	5.1
7	☐	10000.000	9911.958	60824402.98	5.0410	A	0.7
8	☐			27468.74	0.0024	P	18.8

$$y = 5.0858\text{E-}004 * x + 2.7770\text{E-}006$$

$$R = 0.9998$$

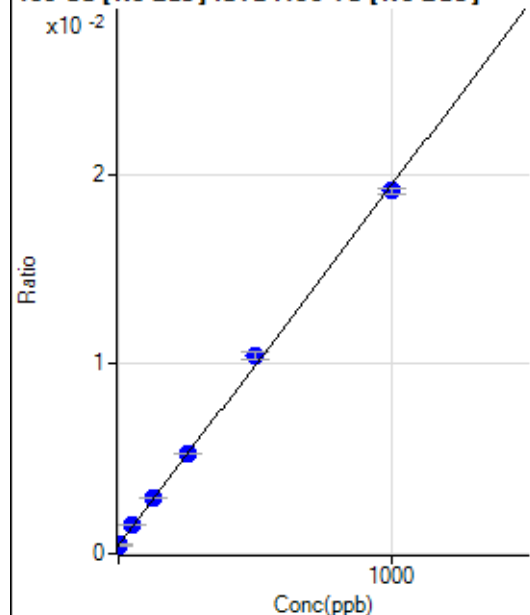
$$DL = 0.001476$$

$$BEC = 0.00546$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	4824.17	0.0004	P	2.1
2	☐	1.000	1.270	5084.27	0.0005	P	3.2
3	☐	50.000	56.584	15839.84	0.0015	P	4.8
4	☐	125.000	131.747	32028.64	0.0029	P	1.1
5	☐	250.000	254.496	56786.01	0.0053	P	1.1
6	☐	500.000	526.733	108193.30	0.0104	P	4.7
7	☐	1000.000	984.336	207085.71	0.0191	P	1.3
8	☐			4352.92	0.0004	P	4.1

$$y = 1.8975\text{E-}005 * x + 4.3578\text{E-}004$$

$$R = 0.9994$$

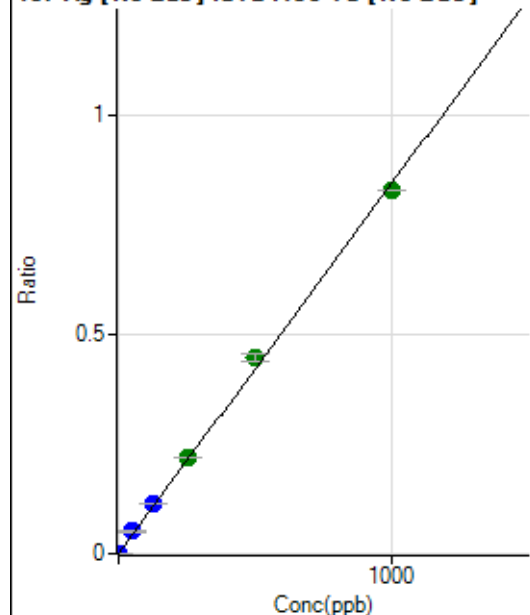
$$DL = 1.417$$

$$BEC = 22.97$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	84.44	0.0000	P	9.5
2	☐	1.000	1.016	9549.89	0.0009	P	2.2
3	☐	50.000	60.287	531753.86	0.0508	P	9.0
4	☐	125.000	136.425	1254365.22	0.1150	P	1.0
5	☐	250.000	260.358	2366574.51	0.2194	A	1.0
6	☐	500.000	529.646	4629821.67	0.4463	A	4.7
7	☐	1000.000	980.645	8953444.38	0.8264	A	0.2
8	☐			4151.76	0.0004	P	12.9

$$y = 8.4268\text{E-}004 * x + 7.6253\text{E-}006$$

$$R = 0.9992$$

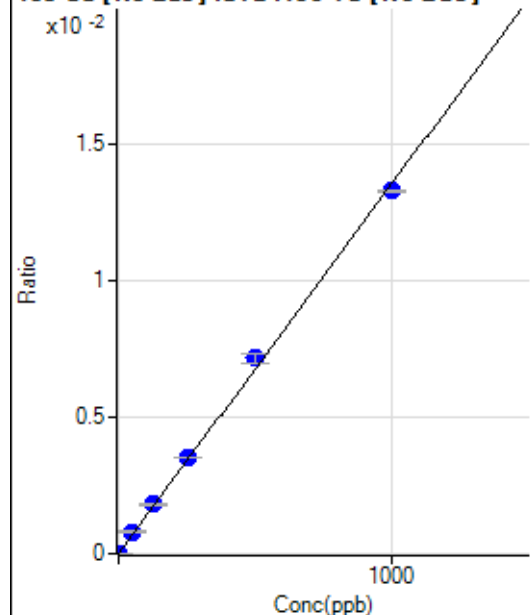
$$DL = 0.002584$$

$$BEC = 0.009049$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	12.22	0.0000	P	41.4
2	☐	1.000	1.104	177.78	0.0000	P	7.8
3	☐	50.000	58.546	8311.34	0.0008	P	11.2
4	☐	125.000	133.337	19741.29	0.0018	P	1.5
5	☐	250.000	260.081	38057.59	0.0035	P	1.2
6	☐	500.000	528.395	74326.70	0.0072	P	5.5
7	☐	1000.000	981.813	144275.31	0.0133	P	0.4
8	☐			136.67	0.0000	P	14.5

$$y = 1.3562\text{E-}005 * x + 1.1039\text{E-}006$$

$$R = 0.9993$$

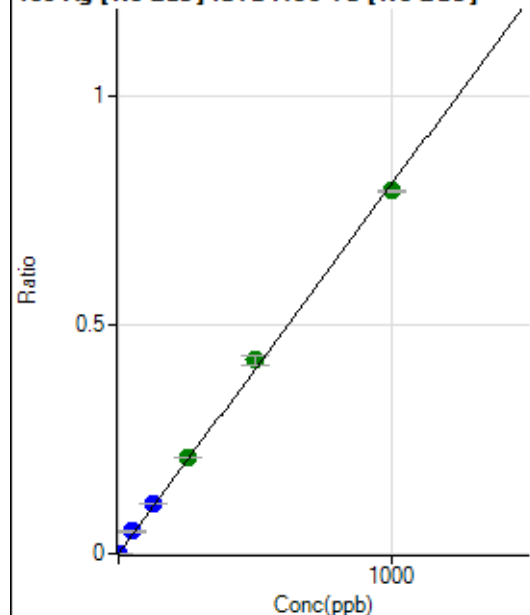
$$DL = 0.1012$$

$$BEC = 0.0814$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	54.45	0.0000	P	7.6
2	☐	1.000	1.000	8975.06	0.0008	P	1.0
3	☐	50.000	60.106	507661.98	0.0485	P	9.5
4	☐	125.000	135.686	1195074.42	0.1095	P	1.0
5	☐	250.000	260.665	2269832.12	0.2104	A	0.8
6	☐	500.000	525.337	4398788.13	0.4241	A	4.8
7	☐	1000.000	982.824	8595688.55	0.7934	A	0.5
8	☐			4036.17	0.0004	P	15.3

$$y = 8.0724\text{E-}004 * x + 4.9193\text{E-}006$$

$$R = 0.9994$$

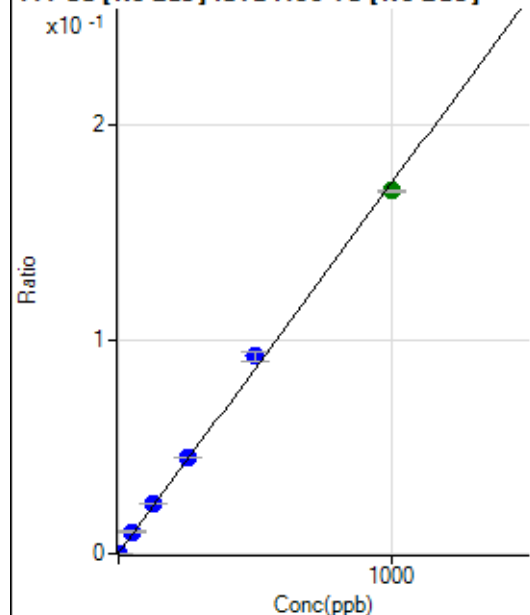
$$DL = 0.001394$$

$$BEC = 0.006094$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	1447.59	0.0001	P	2.1
2	☐	1.000	1.000	3356.54	0.0003	P	1.8
3	☐	50.000	58.096	106430.10	0.0102	P	9.3
4	☐	125.000	132.692	251625.21	0.0231	P	1.3
5	☐	250.000	259.921	485960.14	0.0451	P	0.8
6	☐	500.000	532.993	956923.58	0.0922	P	4.6
7	☐	1000.000	979.657	1835866.73	0.1694	A	0.5
8	☐			2815.87	0.0003	P	3.9

$$y = 1.7283\text{E-}004 * x + 1.3077\text{E-}004$$

$$R = 0.9991$$

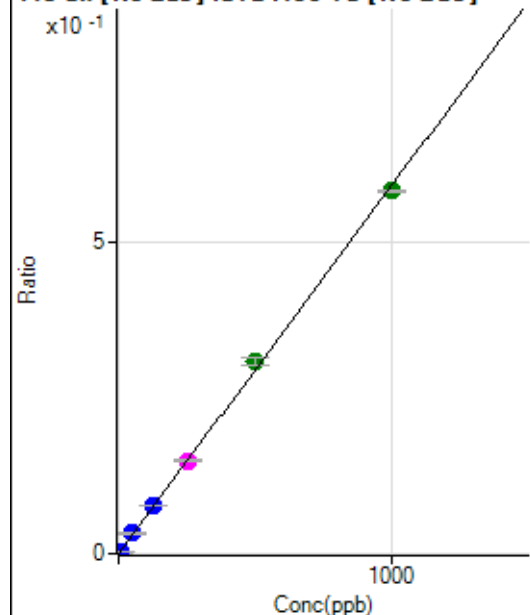
$$DL = 0.04722$$

$$BEC = 0.7566$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	690.02	0.0001	P	4.8
2	☐	5.000	4.855	32311.78	0.0029	P	1.2
3	☐	50.000	56.877	351299.54	0.0336	P	9.1
4	☐	125.000	129.895	835614.42	0.0766	P	0.9
5	☐	250.000	253.192	1609581.83	0.1492	M	1.3
6	☐	500.000	523.875	3202347.45	0.3087	A	4.5
7	☐	1000.000	986.309	6296273.17	0.5811	A	0.5
8	☐			6172.49	0.0006	P	8.2

$$y = 5.8914\text{E-}004 * x + 6.2311\text{E-}005$$

$$R = 0.9996$$

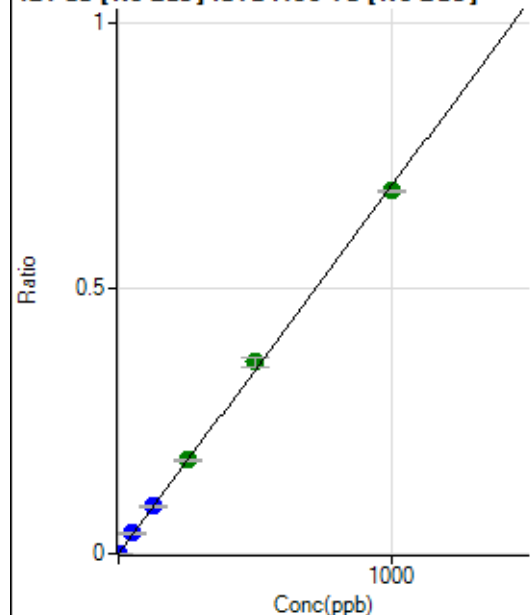
$$DL = 0.01509$$

$$BEC = 0.1058$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	28.89	0.0000	P	51.7
2	☐	2.000	1.915	14708.73	0.0013	P	2.9
3	☐	50.000	55.950	406090.41	0.0388	P	9.2
4	☐	125.000	128.670	973669.79	0.0892	P	0.9
5	☐	250.000	254.051	1900556.57	0.1762	A	1.4
6	☐	500.000	522.474	3758476.85	0.3624	A	5.1
7	☐	1000.000	986.994	7417008.57	0.6845	A	0.6
8	☐			8126.81	0.0008	P	1.7

$$y = 6.9356\text{E-}004 * x + 2.6077\text{E-}006$$

$$R = 0.9996$$

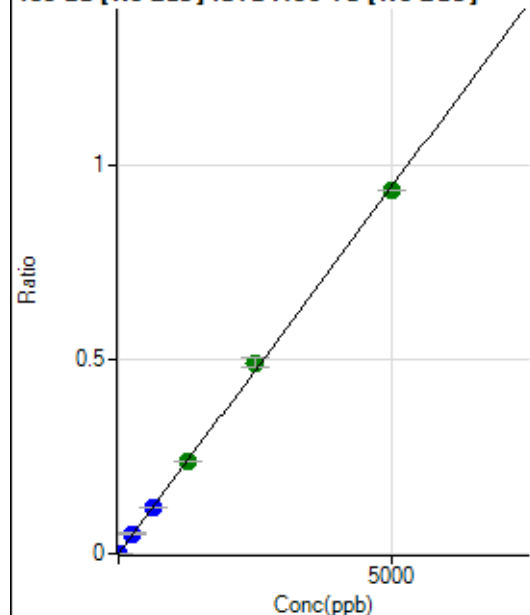
$$DL = 0.00583$$

$$BEC = 0.00376$$

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	15.55	0.0000	P	44.0
2	☐	10.000	9.459	19764.91	0.0018	P	1.2
3	☐	250.000	272.843	538856.44	0.0515	P	10.3
4	☐	625.000	626.724	1291366.30	0.1184	P	1.7
5	☐	1250.000	1264.140	2575354.36	0.2388	A	0.5
6	☐	2500.000	2599.180	5091349.44	0.4909	A	5.1
7	☐	5000.000	4945.519	10119746.86	0.9340	A	0.1
8	☐			7679.93	0.0008	P	8.5

$$y = 1.8886E-004 * x + 1.4021E-006$$

$$R = 0.9997$$

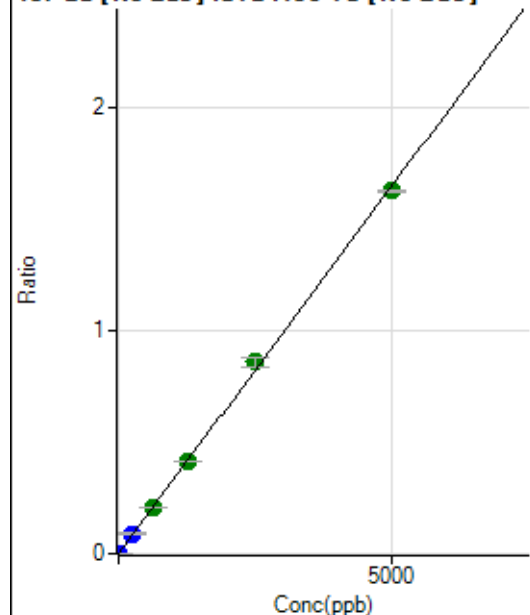
$$DL = 0.009791$$

$$BEC = 0.007424$$

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	34.44	0.0000	P	33.6
2	☐	10.000	9.309	33880.25	0.0031	P	1.6
3	☐	250.000	273.084	939502.52	0.0898	P	9.7
4	☐	625.000	635.765	2281183.37	0.2091	A	0.9
5	☐	1250.000	1263.301	4481322.26	0.4155	A	0.7
6	☐	2500.000	2606.349	8890363.20	0.8571	A	5.0
7	☐	5000.000	4941.002	17606106.68	1.6249	A	0.6
8	☐			13446.49	0.0013	P	9.1

$$y = 3.2887E-004 * x + 3.1092E-006$$

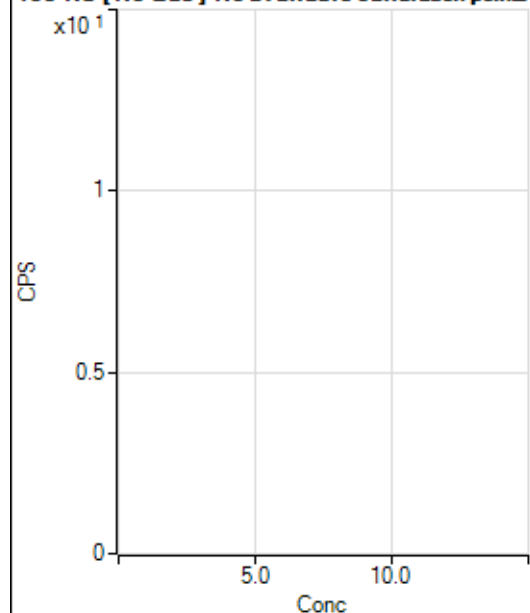
$$R = 0.9997$$

$$DL = 0.009529$$

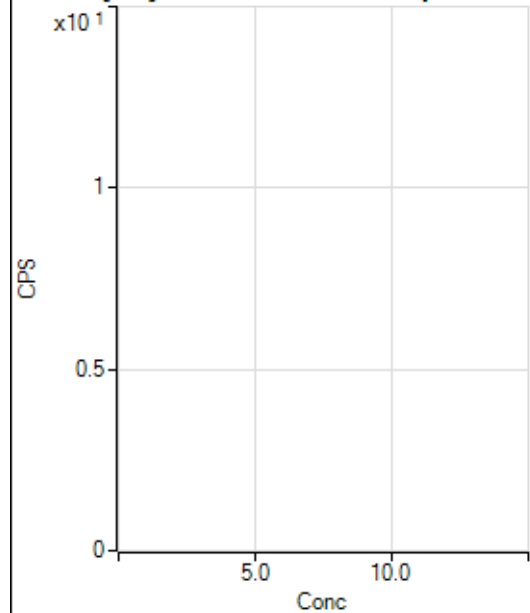
$$BEC = 0.009454$$

Weight: <None>

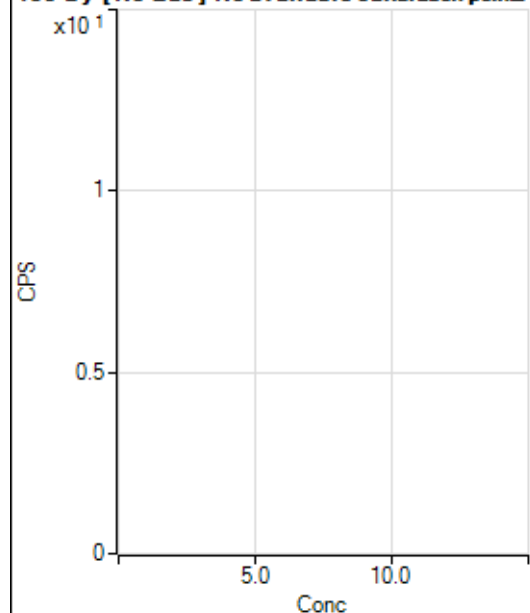
Min Conc: 0

150 Nd [No Gas] No available calibration points

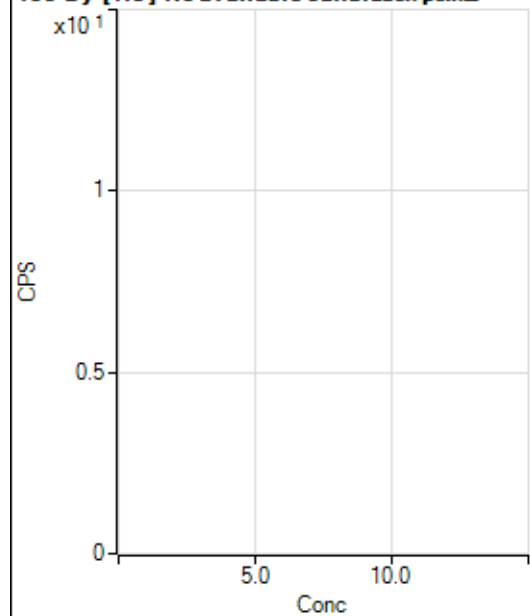
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			5.56		P	91.6
2	☐			12.22		P	31.5
3	☐			64.45		P	20.9
4	☐			145.56		P	11.3
5	☐			232.23		P	17.5
6	☐			458.90		P	7.6
7	☐			914.49		P	8.3
8	☐			326.67		P	10.6

150 Nd [He] No available calibration points

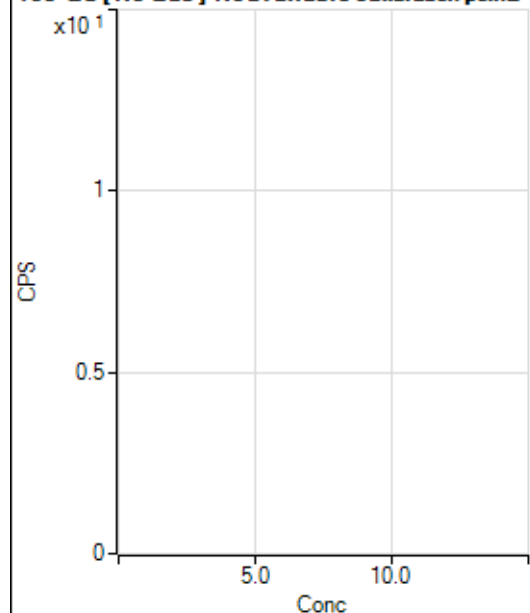
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2.22		P	173.
2	☐			6.67		P	50.0
3	☐			11.11		P	62.5
4	☐			27.78		P	34.6
5	☐			45.56		P	42.3
6	☐			101.11		P	9.5
7	☐			216.67		P	9.4
8	☐			148.89		P	5.2

156 Dy [No Gas] No available calibration points

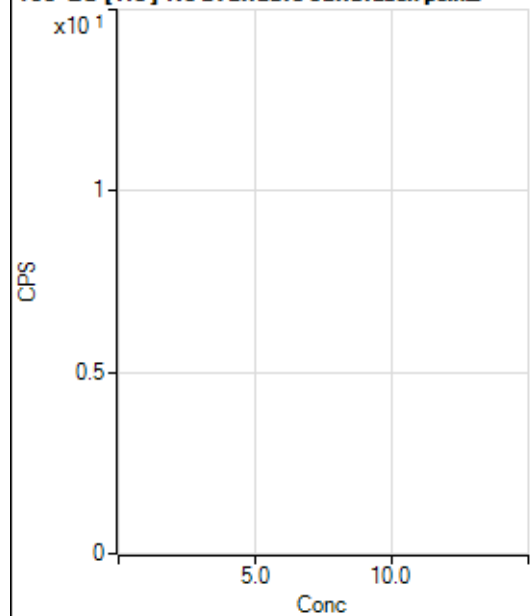
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			12.22		P	78.7
2	☐			12.22		P	78.7
3	☐			42.22		P	24.1
4	☐			80.00		P	38.2
5	☐			138.89		P	6.0
6	☐			287.78		P	11.4
7	☐			640.02		P	16.0
8	☐			1727.90		P	4.9

156 Dy [He] No available calibration points

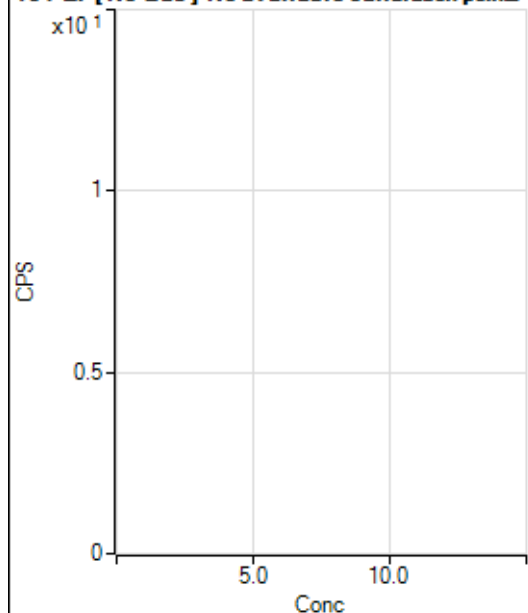
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			7.78		P	24.7
2	☐			10.00		P	33.3
3	☐			57.78		P	35.3
4	☐			91.11		P	14.8
5	☐			175.56		P	11.6
6	☐			318.90		P	12.1
7	☐			640.02		P	3.9
8	☐			1088.94		P	9.9

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

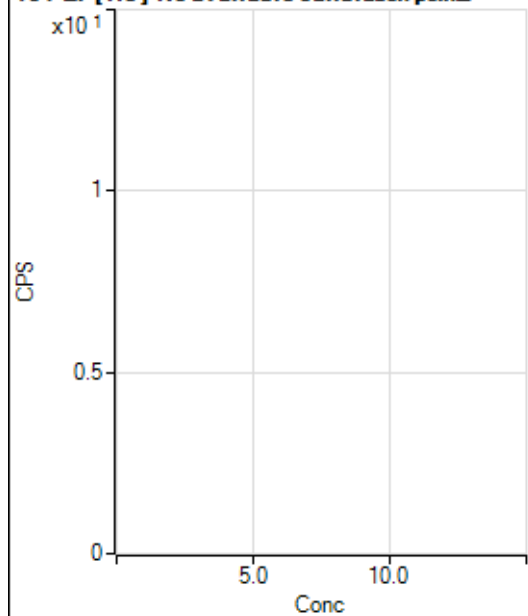
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			46.67		P	37.8
2	☐			56.67		P	23.5
3	☐			77.78		P	24.7
4	☐			100.00		P	12.0
5	☐			157.78		P	12.0
6	☐			286.67		P	11.1
7	☐			588.91		P	8.0
8	☐			1874.59		P	4.6

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			370.01		P	19.9
2	☐			346.68		P	1.7
3	☐			341.12		P	7.8
4	☐			336.67		P	12.6
5	☐			387.79		P	16.5
6	☐			428.90		P	8.9
7	☐			638.91		P	8.4
8	☐			1521.21		P	4.5

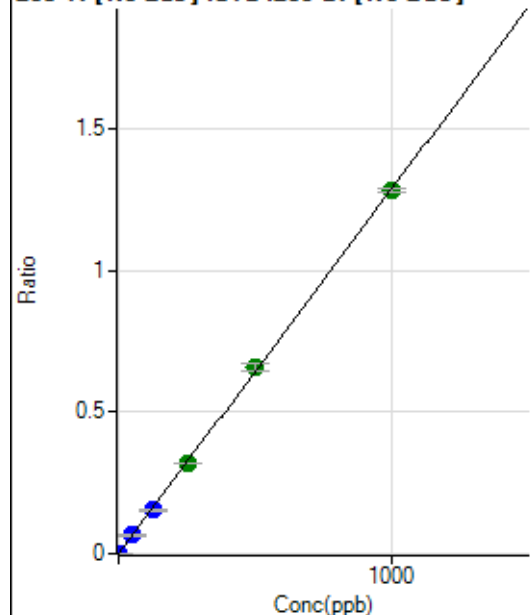
164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			76.67		P	15.1
2	☐			77.78		P	38.9
3	☐			90.00		P	22.2
4	☐			114.44		P	12.1
5	☐			116.67		P	4.9
6	☐			158.89		P	7.4
7	☐			283.34		P	16.5
8	☐			267.78		P	3.8

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			44.45		P	45.8
2	☐			56.67		P	5.9
3	☐			52.22		P	29.5
4	☐			60.00		P	16.7
5	☐			74.44		P	2.6
6	☐			94.45		P	8.9
7	☐			145.56		P	9.3
8	☐			195.56		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	93.34	0.0000	P	26.8
2	☐	1.000	0.856	7259.78	0.0011	P	1.6
3	☐	50.000	50.794	400067.24	0.0654	P	9.4
4	☐	125.000	118.854	984644.38	0.1530	P	0.8
5	☐	250.000	247.754	2068184.10	0.3189	A	1.6
6	☐	500.000	511.520	4072916.26	0.6583	A	4.3
7	☐	1000.000	995.530	8042411.69	1.2812	A	1.0
8	☐			4397.43	0.0008	P	13.1

$$y = 0.0013 * x + 1.4511E-005$$

$$R = 0.9999$$

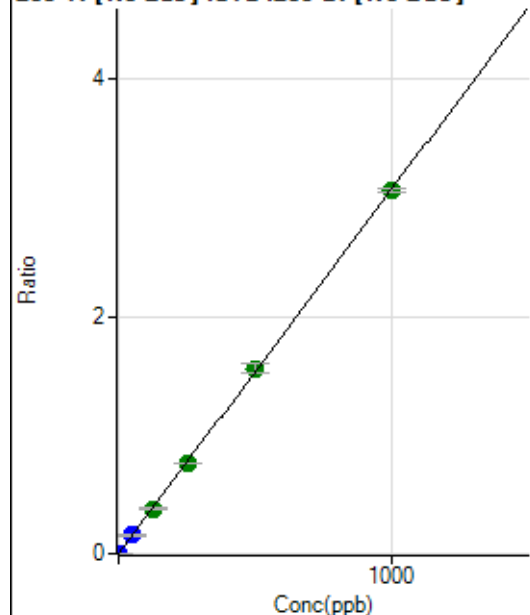
$$DL = 0.009066$$

$$BEC = 0.01128$$

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	233.34	0.0000	P	14.4
2	☐	1.000	0.847	17124.20	0.0026	P	1.5
3	☐	50.000	50.576	949114.35	0.1552	P	10.4
4	☐	125.000	123.655	2442211.02	0.3794	A	0.7
5	☐	250.000	247.774	4930865.07	0.7602	A	1.5
6	☐	500.000	509.255	9666478.54	1.5625	A	4.5
7	☐	1000.000	996.068	19183107.91	3.0561	A	1.0
8	☐			10557.57	0.0020	P	12.6

$$y = 0.0031 * x + 3.6181E-005$$

$$R = 0.9999$$

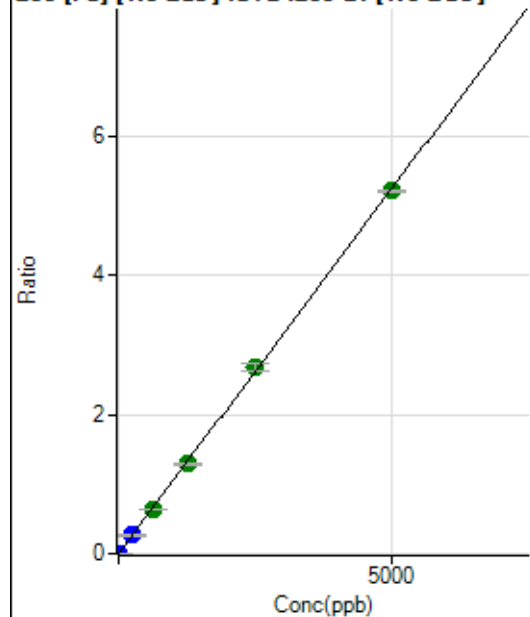
$$DL = 0.005082$$

$$BEC = 0.01179$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	455.56	0.0001	P	2.5
2	☐	1.000	0.829	6110.31	0.0009	P	1.5
3	☐	250.000	255.225	1637995.37	0.2677	P	9.3
4	☐	625.000	613.982	4144363.58	0.6439	A	0.9
5	☐	1250.000	1231.647	8377122.51	1.2915	A	1.4
6	☐	2500.000	2559.585	16606260.45	2.6839	A	4.0
7	☐	5000.000	4975.912	32751820.62	5.2176	A	0.4
8	☐			21453.85	0.0041	P	9.4

$$y = 0.0010 * x + 7.0675E-005$$

$$R = 0.9999$$

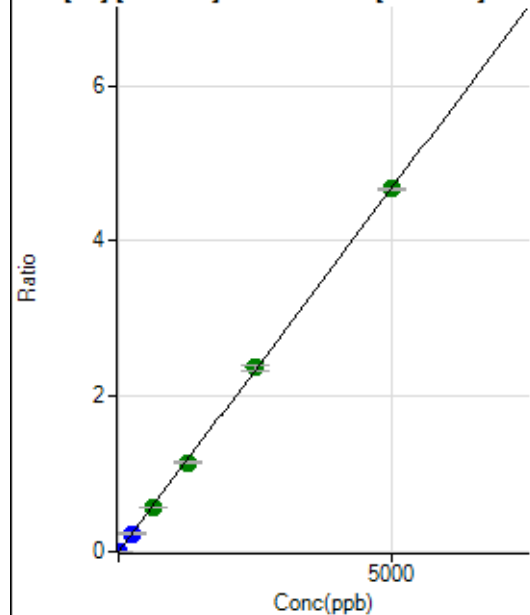
$$DL = 0.004966$$

$$BEC = 0.0674$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	384.46	0.0001	P	9.5
2	☐	1.000	0.823	5392.22	0.0008	P	4.3
3	☐	250.000	250.499	1435055.95	0.2345	P	9.0
4	☐	625.000	616.015	3711189.04	0.5766	A	0.5
5	☐	1250.000	1225.969	7442050.86	1.1474	A	1.4
6	☐	2500.000	2529.786	14649861.59	2.3676	A	3.8
7	☐	5000.000	4992.213	29327525.12	4.6720	A	0.5
8	☐			18586.28	0.0035	P	10.3

$$y = 9.3585E-004 * x + 5.9691E-005$$

$$R = 1.0000$$

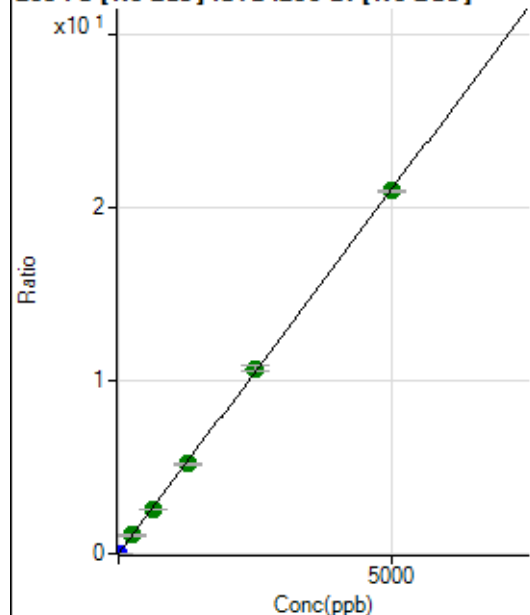
$$DL = 0.01821$$

$$BEC = 0.06378$$

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	1824.51	0.0003	P	2.1
2	☐	1.000	0.828	24499.97	0.0038	P	0.7
3	☐	250.000	257.994	6647751.03	1.0868	A	9.8
4	☐	625.000	611.814	16586318.95	2.5768	A	0.4
5	☐	1250.000	1231.534	33642204.08	5.1866	A	1.3
6	☐	2500.000	2547.506	66387867.90	10.7286	A	3.7
7	☐	5000.000	4982.112	131705233.5	20.9815	A	0.5
8	☐			84546.92	0.0160	P	10.3

$$y = 0.0042 * x + 2.8311E-004$$

$$R = 0.9999$$

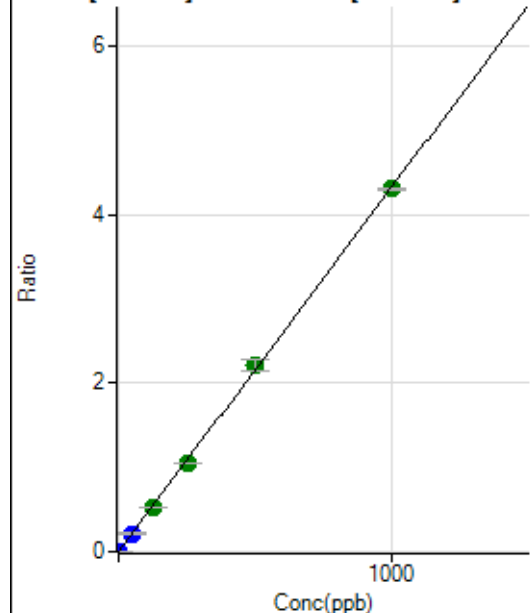
$$DL = 0.00414$$

$$BEC = 0.06723$$

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	8.89	0.0000	P	115.
2	☐	1.000	0.796	22361.03	0.0034	P	0.5
3	☐	50.000	48.152	1272104.10	0.2080	P	10.1
4	☐	125.000	120.926	3361978.94	0.5223	A	1.4
5	☐	250.000	243.552	6823586.70	1.0520	A	0.7
6	☐	500.000	512.324	13687572.02	2.2129	A	5.3
7	☐	1000.000	996.052	27007754.60	4.3024	A	0.7
8	☐			12867.51	0.0024	P	13.6

$$y = 0.0043 * x + 1.3744E-006$$

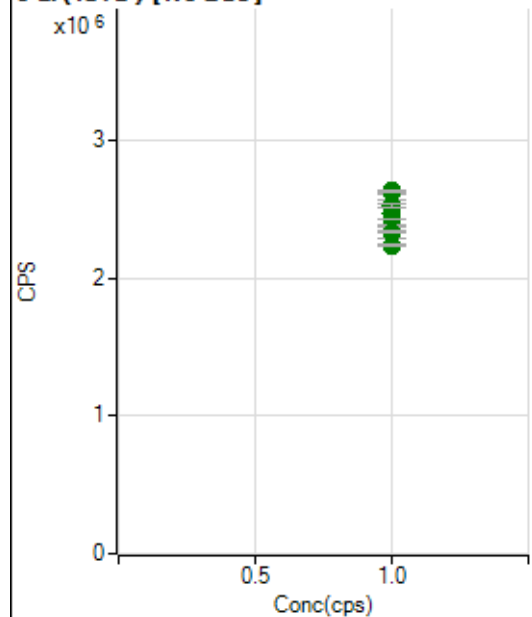
$$R = 0.9999$$

$$DL = 0.001097$$

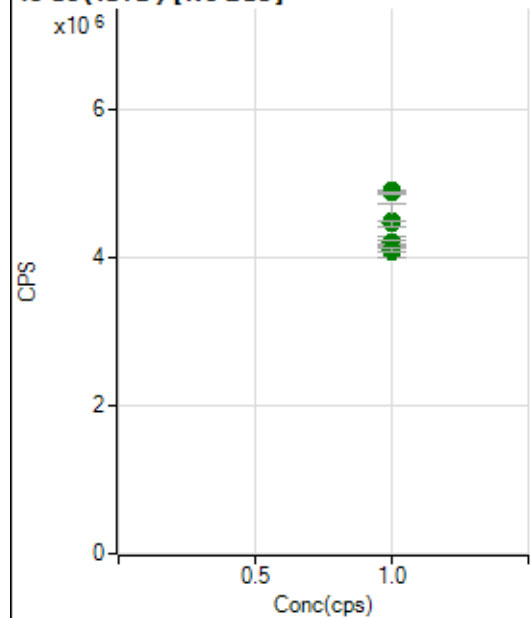
$$BEC = 0.0003182$$

Weight: <None>

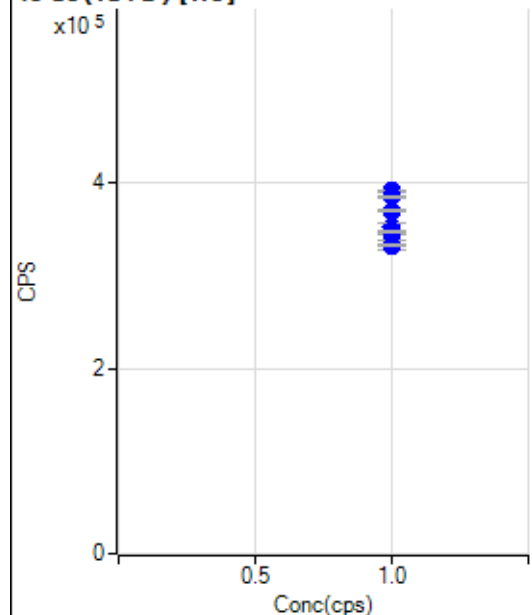
Min Conc: 0

6 Li (ISTD) [No Gas]

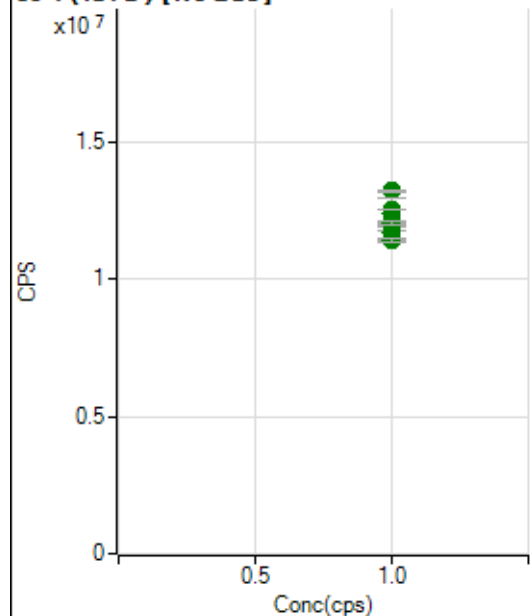
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2628840.57		A	0.8
2	☐	1.000		2638243.88		A	0.3
3	☐	1.000		2469416.25		A	8.0
4	☐	1.000		2529968.23		A	0.8
5	☐	1.000		2431574.41		A	0.3
6	☐	1.000		2340719.69		A	3.9
7	☐	1.000		2340819.65		A	0.5
8	☐	1.000		2237915.30		A	0.7

45 Sc (ISTD) [No Gas]

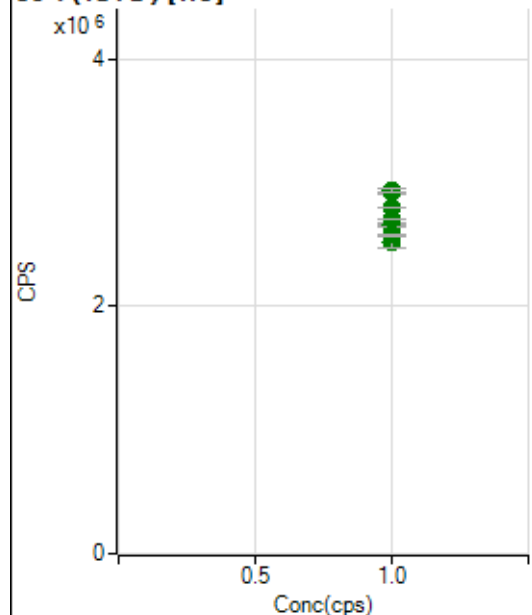
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4901050.80		A	0.8
2	☐	1.000		4879058.08		A	0.5
3	☐	1.000		4506276.35		A	9.5
4	☐	1.000		4461468.93		A	1.6
5	☐	1.000		4215233.62		A	1.3
6	☐	1.000		4079970.46		A	4.2
7	☐	1.000		4204877.23		A	1.2
8	☐	1.000		4106615.74		A	0.9

45 Sc (ISTD) [He]

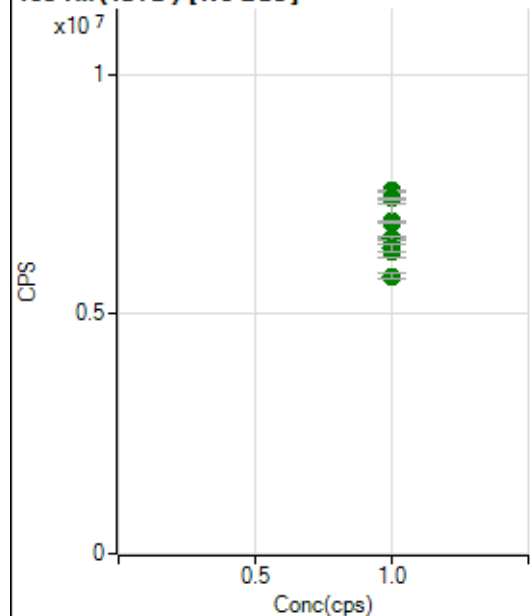
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		391073.95		P	0.3
2	☐	1.000		385361.91		P	0.6
3	☐	1.000		369740.60		P	0.8
4	☐	1.000		351502.05		P	2.9
5	☐	1.000		331764.24		P	3.1
6	☐	1.000		345045.74		P	0.3
7	☐	1.000		347588.58		P	0.6
8	☐	1.000		331804.44		P	0.6

89 Y (ISTD) [No Gas]

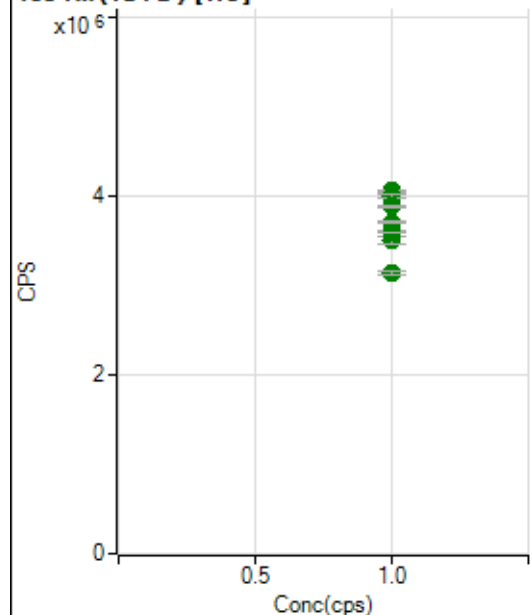
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		13203114.53		A	0.2
2	☐	1.000		13196425.22		A	0.1
3	☐	1.000		12356318.15		A	9.5
4	☐	1.000		12522468.01		A	0.3
5	☐	1.000		11966314.54		A	0.8
6	☐	1.000		11690587.88		A	5.0
7	☐	1.000		12065435.93		A	1.3
8	☐	1.000		11407851.50		A	0.7

89 Y(ISTD) [He]

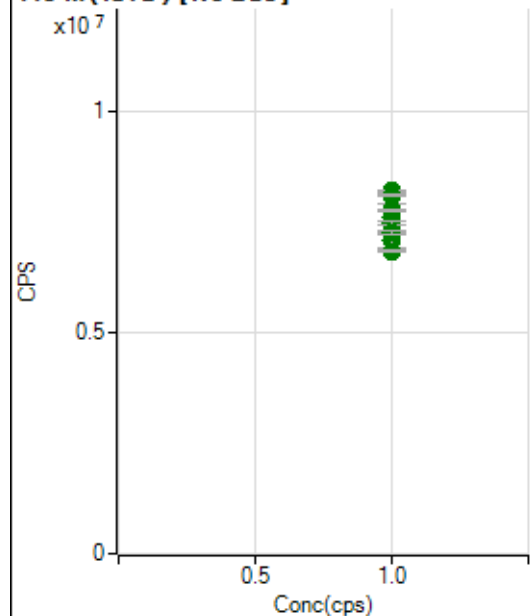
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2923318.05		A	0.5
2	☐	1.000		2935734.78		A	0.9
3	☐	1.000		2800558.61		A	0.4
4	☐	1.000		2681363.82		A	1.9
5	☐	1.000		2522690.99		A	3.5
6	☐	1.000		2657546.54		A	1.2
7	☐	1.000		2708142.56		A	0.2
8	☐	1.000		2578226.45		A	0.7

103 Rh(ISTD) [No Gas]

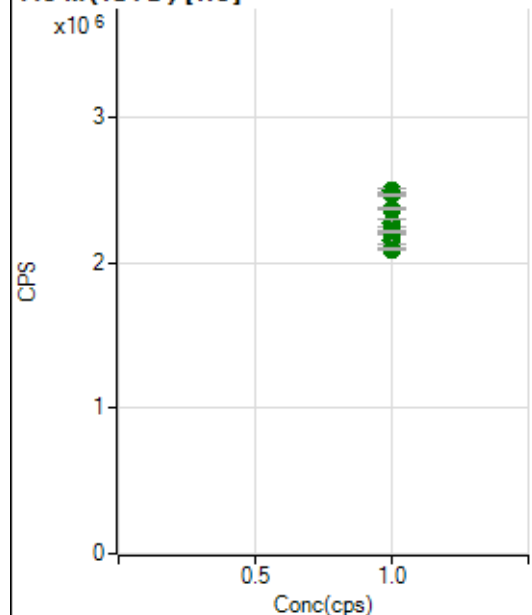
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7567339.75		A	0.7
2	☐	1.000		7412703.92		A	0.5
3	☐	1.000		6933631.91		A	10.2
4	☐	1.000		6905226.49		A	0.6
5	☐	1.000		6571614.14		A	0.8
6	☐	1.000		6308491.85		A	4.2
7	☐	1.000		6388836.09		A	2.6
8	☐	1.000		5787937.62		A	1.9

103 Rh (ISTD) [He]

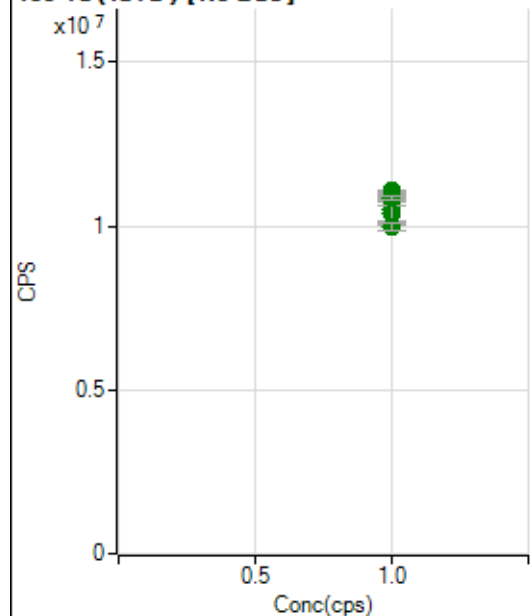
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4052836.40		A	0.2
2	☐	1.000		4002499.87		A	1.0
3	☐	1.000		3885439.60		A	0.7
4	☐	1.000		3701497.83		A	0.9
5	☐	1.000		3496461.13		A	2.6
6	☐	1.000		3595888.66		A	0.6
7	☐	1.000		3580484.11		A	0.2
8	☐	1.000		3132998.91		A	1.1

115 In (ISTD) [No Gas]

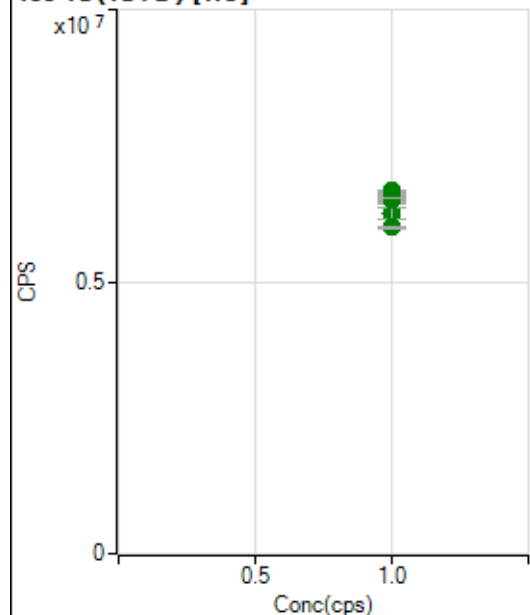
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		8219037.01		A	0.6
2	☐	1.000		8119454.45		A	0.4
3	☐	1.000		7607377.01		A	8.7
4	☐	1.000		7780896.94		A	0.6
5	☐	1.000		7489592.97		A	1.3
6	☐	1.000		7108355.32		A	4.6
7	☐	1.000		7287357.52		A	1.1
8	☐	1.000		6851710.88		A	0.6

115 In (ISTD) [He]

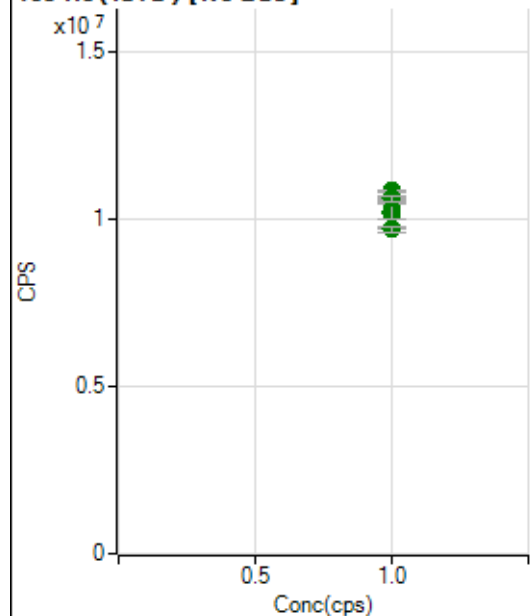
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2497911.24		A	1.1
2	☐	1.000		2469262.13		A	0.3
3	☐	1.000		2374723.29		A	0.9
4	☐	1.000		2272972.47		A	2.2
5	☐	1.000		2162778.28		A	2.7
6	☐	1.000		2218611.14		A	0.3
7	☐	1.000		2217984.79		A	0.6
8	☐	1.000		2098459.03		A	0.2

159 Tb (ISTD) [No Gas]

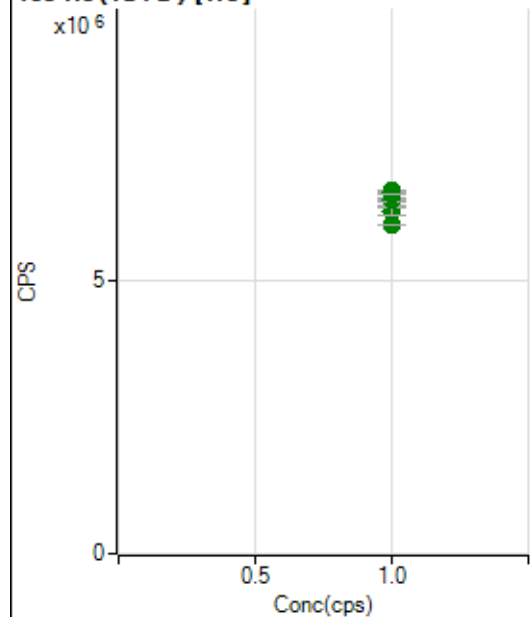
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		11071219.28		A	0.8
2	☐	1.000		11055659.56		A	0.1
3	☐	1.000		10524495.82		A	9.4
4	☐	1.000		10910744.98		A	0.7
5	☐	1.000		10786597.62		A	0.6
6	☐	1.000		10389245.12		A	5.0
7	☐	1.000		10834641.92		A	1.1
8	☐	1.000		9980031.66		A	1.9

159 Tb (ISTD) [He]

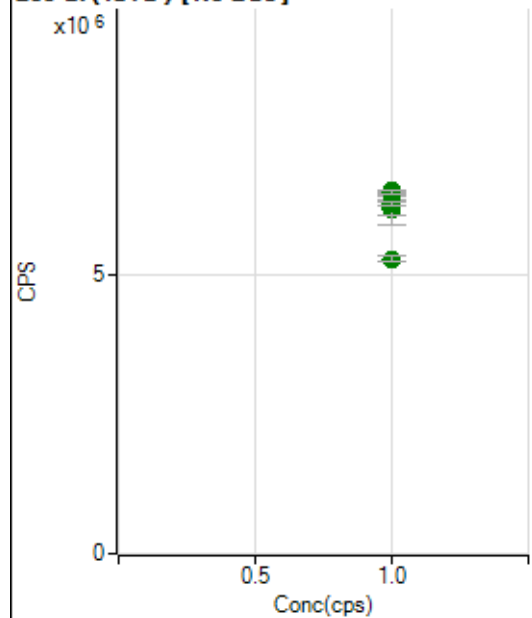
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6666886.43		A	0.4
2	☐	1.000		6586370.67		A	0.5
3	☐	1.000		6597261.29		A	0.4
4	☐	1.000		6489287.27		A	2.0
5	☐	1.000		6250906.99		A	3.6
6	☐	1.000		6496779.28		A	0.4
7	☐	1.000		6531917.40		A	0.2
8	☐	1.000		5990382.41		A	0.8

165 Ho (ISTD) [No Gas]

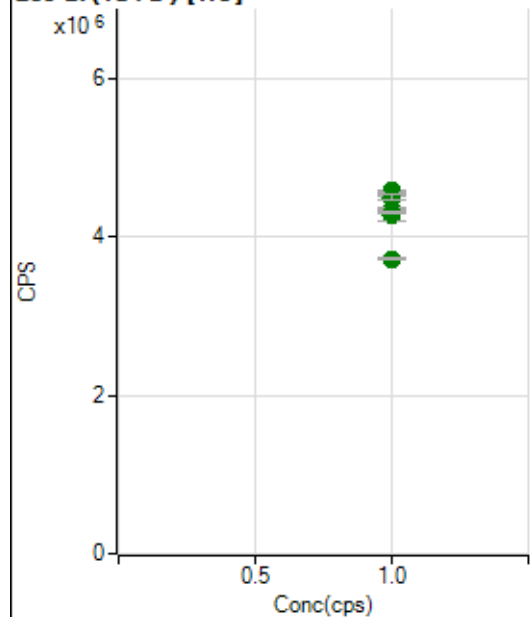
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		10833420.12		A	0.7
2	☐	1.000		10615981.16		A	1.0
3	☐	1.000		10177494.08		A	8.8
4	☐	1.000		10503782.83		A	0.9
5	☐	1.000		10538896.93		A	0.6
6	☐	1.000		10232942.07		A	4.2
7	☐	1.000		10599301.02		A	1.7
8	☐	1.000		9675692.43		A	2.0

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6650311.57		A	0.5
2	☐	1.000		6622409.83		A	1.0
3	☐	1.000		6532496.15		A	1.8
4	☐	1.000		6455526.01		A	1.9
5	☐	1.000		6276708.72		A	2.0
6	☐	1.000		6481172.06		A	0.8
7	☐	1.000		6585014.55		A	0.1
8	☐	1.000		6027377.27		A	0.2

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6445677.47		A	1.2
2	☐	1.000		6501190.11		A	0.3
3	☐	1.000		6151888.45		A	8.7
4	☐	1.000		6436763.10		A	0.7
5	☐	1.000		6486593.93		A	1.0
6	☐	1.000		6194372.48		A	4.3
7	☐	1.000		6277356.99		A	0.9
8	☐	1.000		5276972.70		A	2.1

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4577918.41		A	0.4
2	☐	1.000		4542392.36		A	1.0
3	☐	1.000		4539326.04		A	1.0
4	☐	1.000		4495364.21		A	1.6
5	☐	1.000		4269110.01		A	3.6
6	☐	1.000		4348854.59		A	0.6
7	☐	1.000		4304656.88		A	0.4
8	☐	1.000		3716676.23		A	0.6

US EPA Tune Check Report

Operator Name Jaswal
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\IP7121323 MS.b
Acq. Date-Time 2023-12-13 10:28:43
Report Comment ---
Instrument Name G8403A JP14410463

[No Gas]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
9		18004	180037.45			0.866	5.000
24		84228	842284.50			1.090	5.000
25		11109	111087.27			1.291	5.000
26		12866	128660.61			1.236	5.000
59		92611	926110.49			1.509	5.000
113		12990	129898.47			1.311	5.000
115		153860	1538604.22			1.151	5.000
206		34139	341390.46			1.298	5.000
207		30649	306493.54			1.500	5.000
208		73219	732193.39			1.339	5.000
220		0	3.30			48.627	

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

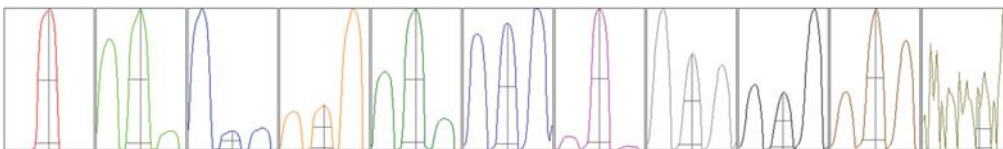
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	17764	18180	18094	17991	17989
24	82694	84171	85025	84449	84804
25	10857	11166	11131	11182	11207
26	12582	12941	12936	12936	12936
59	90379	93984	92300	93483	92910
113	12731	13134	13098	13084	12902
115	151469	154279	156089	154642	152823
206	33450	34582	34287	34399	33977
207	29895	30820	30903	31068	30561
208	71535	73859	73752	73781	73169

US EPA Tune Check Report

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
220	0	1	0	0	0

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	29673.88	9.00	8.90 - 9.10	
24	137737.46	24.00	23.90 - 24.10	
25	18343.97	25.00	24.90 - 25.10	
26	21289.36	26.00	25.90 - 26.10	
59	151220.38	59.00	58.90 - 59.10	
113	23591.03	113.00	112.90 - 113.10	
115	276553.64	115.00	114.90 - 115.10	
206	64837.47	206.05	205.90 - 206.10	
207	56925.27	207.00	206.90 - 207.10	
208	138559.62	208.05	207.90 - 208.10	
220	0.30	220.45	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.62	0.785	0.900	
24	0.65	0.828	0.900	
25	0.63	0.749	0.900	
26	0.63	0.746	0.900	
59	0.63	0.780	0.900	
113	0.56	0.758	0.900	
115	0.57	0.751	0.900	
206	0.53	0.764	0.900	
207	0.54	0.773	0.900	
208	0.54	0.773	0.900	
220	0.46	0.496		

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode ---

Nebulizer Gas 0.82 L/min

Dilution Gas 0.40 L/min

US EPA Tune Check Report

RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.80 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	9.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	8.7 V	Deflect	14.8 V
Extract 2	-130.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-70 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	---	OctP RF	200 V		

QP Parameters

Mass Gain	132	Axis Gain	0.9973	QP Bias	-3.0 V
Mass Offset	129	Axis Offset	0.13		

Hardware Settings

Torch

Torch H	-0.4 mm	Torch V	1.0 mm
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EM

Discriminator	4.6 mV	Analog HV	2301 V	Pulse HV	1377 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		29540	295404.04			0.331	
89		37602	376019.78			0.340	
205		34715	347150.82			0.561	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	29617	29535	29658	29461	29431
89	37753	37468	37724	37521	37544
205	34627	34833	34999	34565	34551

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.82 L/min	Dilution Gas	0.40 L/min
RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.80 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	9.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	8.6 V	Deflect	2.8 V
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US EPA Tune Check Report

Extract 2	-105.0 V	Cell Entrance	-40 V	Plate Bias	-60 V
Omega Bias	-60 V	Cell Exit	-60 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	3.9 mL/min	OctP Bias	-18.0 V		
H2 Flow	---	OctP RF	200 V		

QP Parameters

Mass Gain	132	Axis Gain	0.9973	QP Bias	-13.0 V
Mass Offset	129	Axis Offset	0.13		

Hardware Settings

Torch

Torch H	-0.4 mm	Torch V	1.0 mm
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EM

Discriminator	4.6 mV	Analog HV	2301 V	Pulse HV	1377 V
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