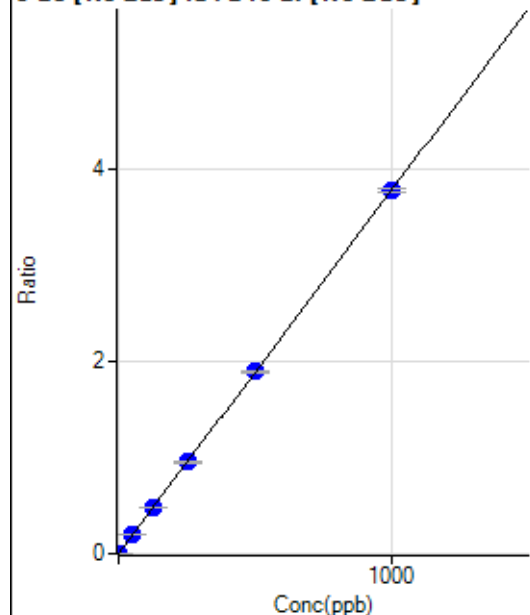


Batch Folder: D:\Agilent\ICPMH\1\DATA\P8091120 MS.b\
Analysis File: P8091120 MS.batch.bin
DA Date-Time: 2020-09-14 11:06:41
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	003CALB.d	S00	2020-09-11 13:32:52
2	004CAL.S.d	S02	2020-09-11 13:36:17
3	005CAL.S.d	S03	2020-09-11 13:39:38
4	006CAL.S.d	S04	2020-09-11 13:43:01
5	007CAL.S.d	S05	2020-09-11 13:46:17
6	008CAL.S.d	S06	2020-09-11 13:49:31
7	009CAL.S.d	S07	2020-09-11 13:52:35
8	010CAL.S.d	S08	2020-09-11 13:55:36

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	41.99	0.0002	P	8.5
2	☐	1.000	0.945	675.22	0.0038	P	0.4
3	☐	50.000	50.792	34428.44	0.1922	P	0.6
4	☐	125.000	127.194	85325.67	0.4809	P	0.7
5	☐	250.000	252.916	168820.03	0.9560	P	1.8
6	☐	500.000	500.508	330456.60	1.8916	P	0.3
7	☐	1000.000	998.703	667656.42	3.7742	P	1.2
8	☐			207.96	0.0012	P	12.3

$$y = 0.0038 * x + 2.3856E-004$$

$$R = 1.0000$$

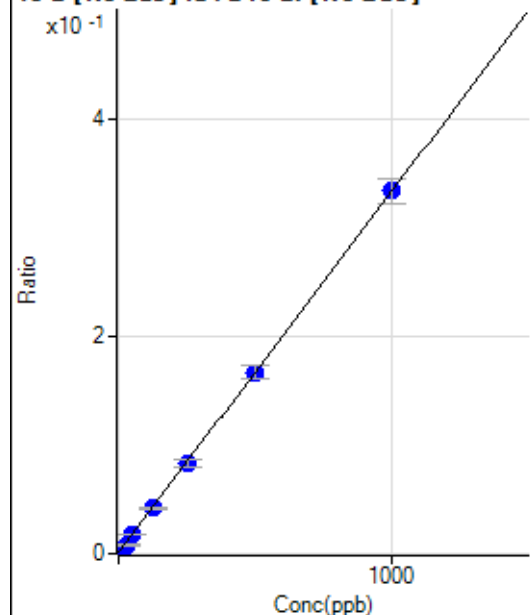
$$DL = 0.01613$$

$$BEC = 0.06313$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	182.63	0.0010	P	11.8
2	☐	25.000	20.416	1383.13	0.0078	P	8.3
3	☐	50.000	48.976	3096.39	0.0173	P	3.3
4	☐	125.000	123.088	7428.42	0.0419	P	6.1
5	☐	250.000	247.097	14659.78	0.0830	P	8.4
6	☐	500.000	498.839	29083.60	0.1665	P	7.2
7	☐	1000.000	1001.711	58955.22	0.3333	P	7.1
8	☐			8110.66	0.0455	P	13.4

$$y = 3.3167E-004 * x + 0.0010$$

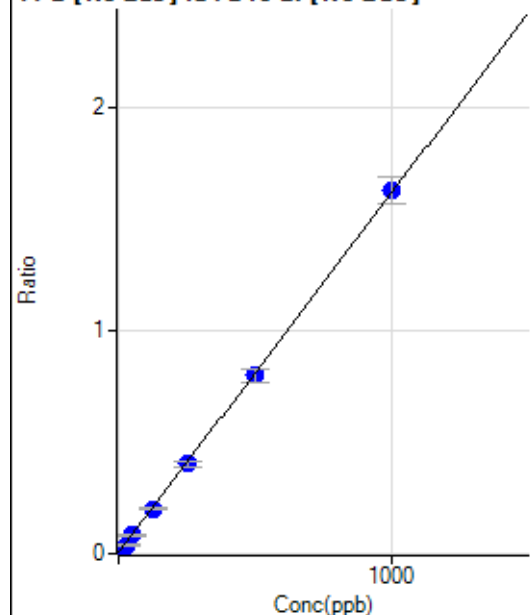
$$R = 1.0000$$

$$DL = 1.106$$

$$BEC = 3.127$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	822.53	0.0047	P	2.4
2	☐	25.000	20.909	6798.92	0.0384	P	7.5
3	☐	50.000	48.576	14869.94	0.0830	P	6.5
4	☐	125.000	122.587	35898.60	0.2023	P	6.8
5	☐	250.000	247.354	71260.04	0.4034	P	6.6
6	☐	500.000	491.602	139263.03	0.7972	P	6.6
7	☐	1000.000	1005.336	287521.45	1.6254	P	7.3
8	☐			39811.40	0.2233	P	12.0

$$y = 0.0016 * x + 0.0047$$

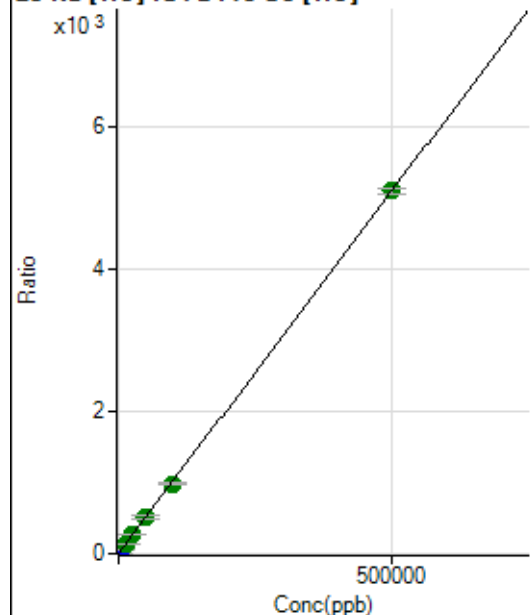
$$R = 0.9999$$

$$DL = 0.2072$$

$$BEC = 2.898$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	44083.66	3.6902	P	1.0
2	☐	500.000	493.458	105955.69	8.7069	P	1.5
3	☐	5000.000	5419.070	727188.86	58.7826	P	2.4
4	☐	12500.000	13468.597	1763607.03	140.6173	A	1.4
5	☐	25000.000	25488.366	3384175.01	262.8150	A	4.3
6	☐	50000.000	50023.071	6737586.91	512.2445	A	6.6
7	☐	100000.00	96253.683	13628319.05	982.2431	A	0.9
8	☐	500000.00	500694.13	63647471.56	5,093.9441	A	1.8

$$y = 0.0102 * x + 3.6902$$

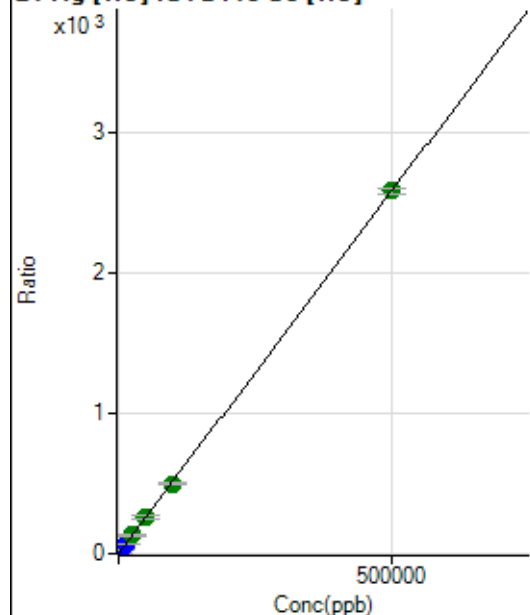
$$R = 1.0000$$

$$DL = 11.12$$

$$BEC = 363$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	683.37	0.0572	P	12.2
2	☐	500.000	502.304	32275.20	2.6521	P	1.8
3	☐	5000.000	5489.021	351438.26	28.4137	P	3.3
4	☐	12500.000	13573.168	880136.96	70.1767	P	1.6
5	☐	25000.000	25817.853	1717506.07	133.4332	A	5.3
6	☐	50000.000	50543.273	3435944.08	261.1657	A	6.0
7	☐	100000.00	96171.255	6893472.20	496.8815	A	1.9
8	☐	500000.00	500638.80	32316013.92	2,586.3762	A	1.9

$$y = 0.0052 * x + 0.0572$$

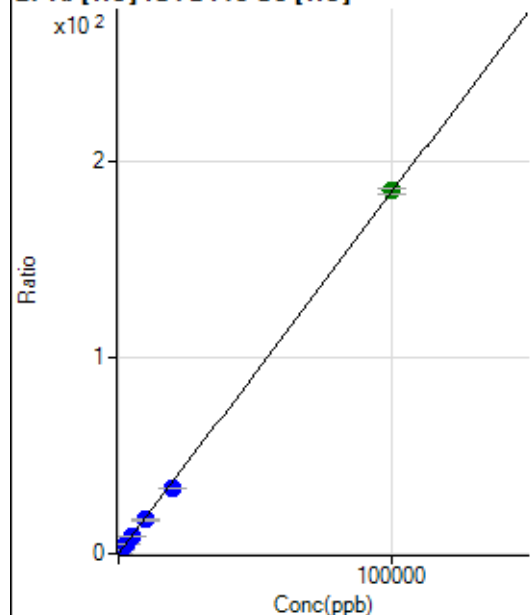
$$R = 1.0000$$

$$DL = 4.043$$

$$BEC = 11.08$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	787.01	0.0659	P	4.1
2	☐	20.000	19.928	1248.23	0.1026	P	4.2
3	☐	1000.000	998.089	23545.60	1.9031	P	1.2
4	☐	2500.000	2502.286	58596.21	4.6719	P	1.1
5	☐	5000.000	4738.155	113120.67	8.7875	P	5.0
6	☐	10000.000	9402.910	228590.55	17.3739	P	5.9
7	☐	20000.000	18119.902	463680.66	33.4194	P	1.0
8	☐	100000.00	100448.78	2311121.79	184.9629	A	1.5

$$y = 0.0018 * x + 0.0659$$

$$R = 0.9998$$

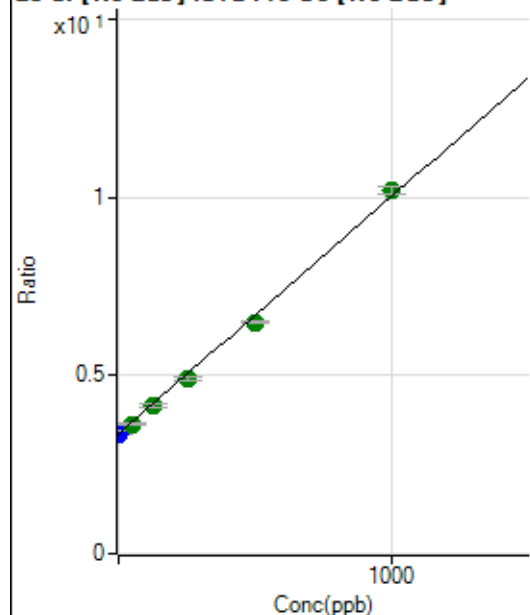
$$DL = 4.375$$

$$BEC = 35.8$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	824808.27	3.3730	P	0.5
2	☐	10.000	11.879	845821.22	3.4522	P	0.2
3	☐	50.000	39.783	915771.80	3.6381	A	0.9
4	☐	125.000	119.458	1037704.97	4.1690	A	2.6
5	☐	250.000	229.043	1247126.81	4.8992	A	1.8
6	☐	500.000	467.835	1634050.38	6.4903	A	0.8
7	☐	1000.000	1022.507	2650487.34	10.1863	A	2.2
8	☐			1135475.29	4.4657	A	5.2

$$y = 0.0067 * x + 3.3730$$

$$R = 0.9990$$

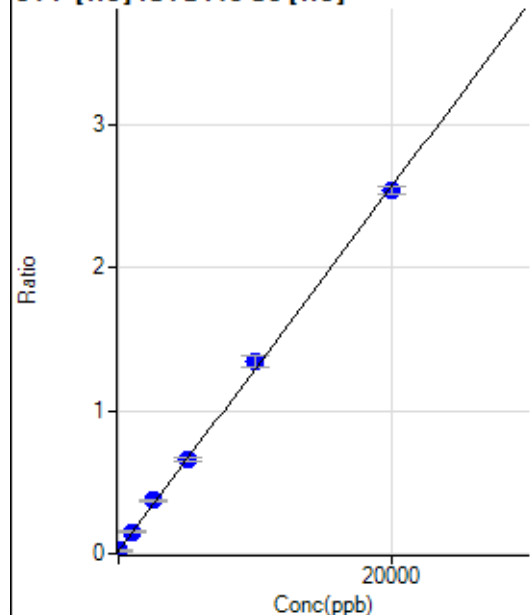
$$DL = 8.24$$

$$BEC = 506.2$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	-14.971	200.01	0.0167	P	9.6
2	☐	0.000	14.971	250.01	0.0205	P	11.4
3	☐	1000.000	1049.458	1880.73	0.1521	P	10.8
4	☐	2500.000	2770.677	4656.43	0.3711	P	3.4
5	☐	5000.000	5009.709	8452.68	0.6560	P	3.2
6	☐	10000.000	10381.007	17619.45	1.3393	P	6.2
7	☐	20000.000	19770.762	35154.25	2.5339	P	2.3
8	☐			186.12	0.0149	P	19.3

$$y = 1.2722E-004 * x + 0.0186$$

$$R = 0.9997$$

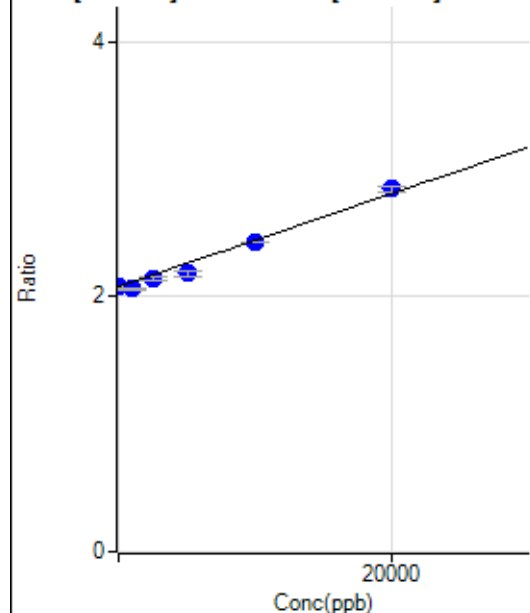
$$DL = 46.61$$

$$BEC = 146.4$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	-14.230	508142.90	2.0781	P	0.8
2	☐	0.000	14.230	509396.80	2.0791	P	0.8
3	☐	1000.000	-439.853	519182.52	2.0626	P	0.6
4	☐	2500.000	1673.136	532637.13	2.1396	P	0.9
5	☐	5000.000	2808.928	555174.82	2.1810	P	2.2
6	☐	10000.000	9454.527	610104.68	2.4233	P	0.3
7	☐	20000.000	20995.855	740028.64	2.8440	P	1.5
8	☐			483146.09	1.9004	P	4.1

$$y = 3.6457E-005 * x + 2.0786$$

$$R = 0.9932$$

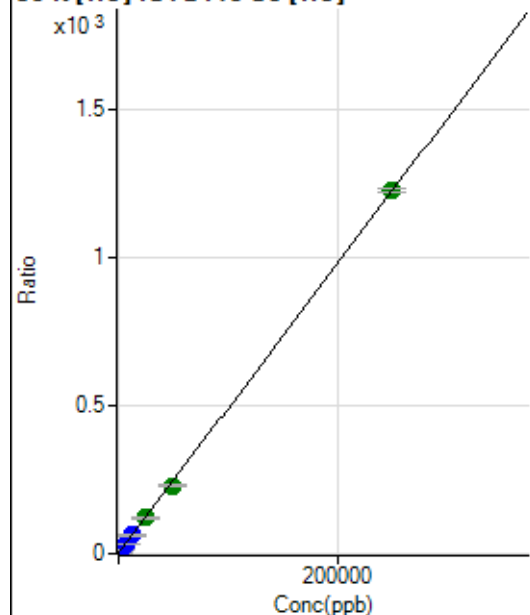
$$DL = 1330$$

$$BEC = 5.701E+04$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	35410.68	2.9646	P	1.9
2	☐	500.000	475.443	64229.73	5.2788	P	2.4
3	☐	2500.000	2574.179	191689.09	15.4945	P	1.6
4	☐	6250.000	6436.552	430124.24	34.2948	P	1.3
5	☐	12500.000	12312.194	809774.22	62.8947	P	4.4
6	☐	25000.000	24313.113	1596136.58	121.3097	A	6.0
7	☐	50000.000	46521.208	3182983.10	229.4085	A	1.1
8	☐	250000.00	250768.48	15289258.33	1,223.5909	A	1.0

$$y = 0.0049 * x + 2.9646$$

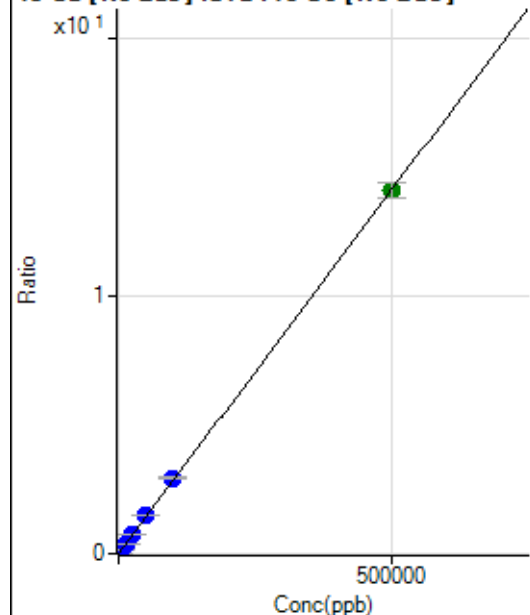
$$R = 0.9999$$

$$DL = 34.89$$

$$BEC = 609$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	276.64	0.0011	P	3.1
2	☐	500.000	506.931	3783.37	0.0154	P	2.9
3	☐	5000.000	5349.116	38295.89	0.1521	P	0.3
4	☐	12500.000	13352.419	94112.35	0.3781	P	1.4
5	☐	25000.000	26201.689	188561.94	0.7408	P	2.6
6	☐	50000.000	53103.068	377715.31	1.5002	P	0.4
7	☐	100000.00	103409.36	759783.09	2.9204	P	2.5
8	☐	500000.00	498922.92	3580715.07	14.0858	A	4.3

$$y = 2.8230\text{E-}005 * x + 0.0011$$

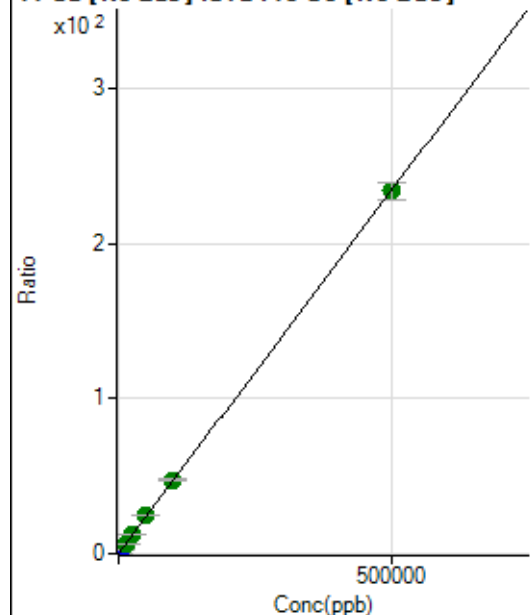
$$R = 1.0000$$

$$DL = 3.74$$

$$BEC = 40.07$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	30007.57	0.1227	P	1.7
2	☐	500.000	510.429	88674.78	0.3619	P	0.5
3	☐	5000.000	5333.259	660020.11	2.6221	P	1.1
4	☐	12500.000	13201.049	1570988.24	6.3092	A	2.2
5	☐	25000.000	26286.239	3166637.07	12.4414	A	3.0
6	☐	50000.000	52442.438	6218712.15	24.6992	A	1.4
7	☐	100000.00	101389.98	12393985.98	47.6379	A	2.4
8	☐	500000.00	499392.57	59515695.63	234.1570	A	4.8

$$y = 4.6864\text{E-}004 * x + 0.1227$$

$$R = 1.0000$$

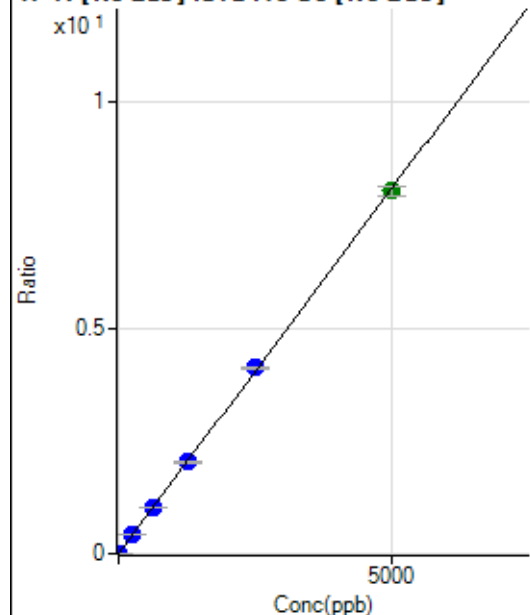
$$DL = 13.69$$

$$BEC = 261.9$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	463.91	0.0019	P	7.2
2	☐	5.000	4.898	2403.05	0.0098	P	4.1
3	☐	250.000	253.446	103535.05	0.4113	P	2.4
4	☐	625.000	639.445	257604.43	1.0349	P	1.5
5	☐	1250.000	1260.289	518705.42	2.0378	P	2.5
6	☐	2500.000	2545.478	1035757.30	4.1139	P	0.4
7	☐	5000.000	4972.711	2090433.20	8.0349	A	2.4
8	☐			766.71	0.0030	P	13.4

$$y = 0.0016 * x + 0.0019$$

$$R = 0.9999$$

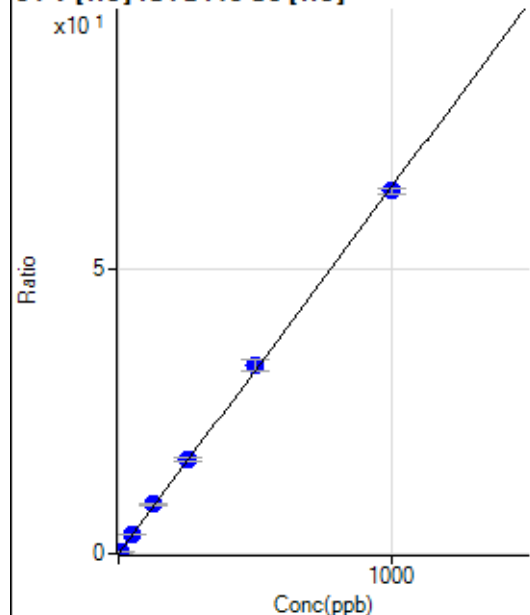
$$DL = 0.252$$

$$BEC = 1.174$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	13.33	0.0011	P	42.0
2	☐	5.000	5.191	4080.63	0.3353	P	1.5
3	☐	50.000	54.593	43500.28	3.5161	P	1.5
4	☐	125.000	134.231	108405.33	8.6435	P	1.7
5	☐	250.000	257.363	213307.30	16.5712	P	5.1
6	☐	500.000	514.144	435542.61	33.1038	P	5.9
7	☐	1000.000	989.703	884100.62	63.7222	P	1.3
8	☐			190.00	0.0152	P	12.6

$$y = 0.0644 * x + 0.0011$$

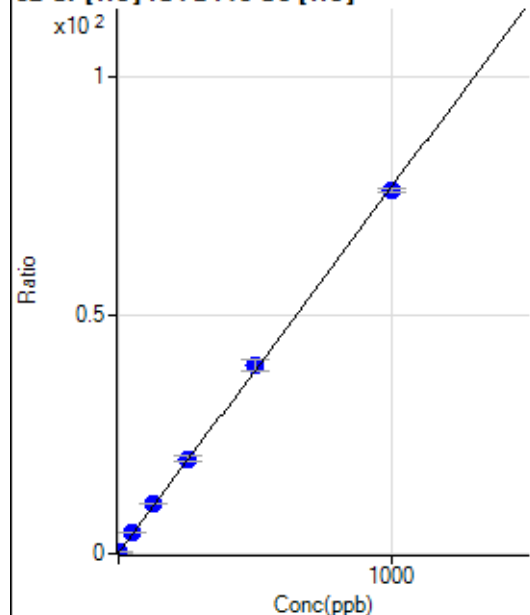
$$R = 0.9998$$

$$DL = 0.02175$$

$$BEC = 0.01728$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	1245.62	0.1042	P	7.1
2	☐	2.000	1.931	3070.37	0.2523	P	1.8
3	☐	50.000	54.937	53393.59	4.3164	P	2.7
4	☐	125.000	136.459	132541.87	10.5672	P	0.7
5	☐	250.000	258.416	256348.47	19.9182	P	5.7
6	☐	500.000	513.228	518900.73	39.4559	P	6.9
7	☐	1000.000	989.603	1054212.75	75.9819	P	1.0
8	☐			2459.13	0.1967	P	1.8

$$y = 0.0767 * x + 0.1042$$

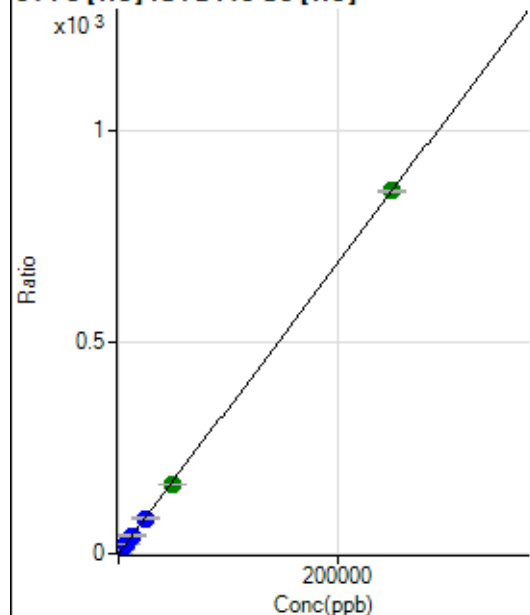
$$R = 0.9998$$

$$DL = 0.2876$$

$$BEC = 1.359$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	531.50	0.0444	P	19.9
2	☐	50.000	48.236	2546.56	0.2093	P	5.5
3	☐	2500.000	2600.865	110527.32	8.9340	P	1.9
4	☐	6250.000	6487.446	278661.98	22.2182	P	1.4
5	☐	12500.000	12370.431	544888.37	42.3260	P	4.7
6	☐	25000.000	24371.496	1096407.41	83.3451	P	6.3
7	☐	50000.000	48126.852	2282908.47	164.5398	A	1.2
8	☐	250000.00	250437.01	10696595.72	856.0265	A	0.8

$$y = 0.0034 * x + 0.0444$$

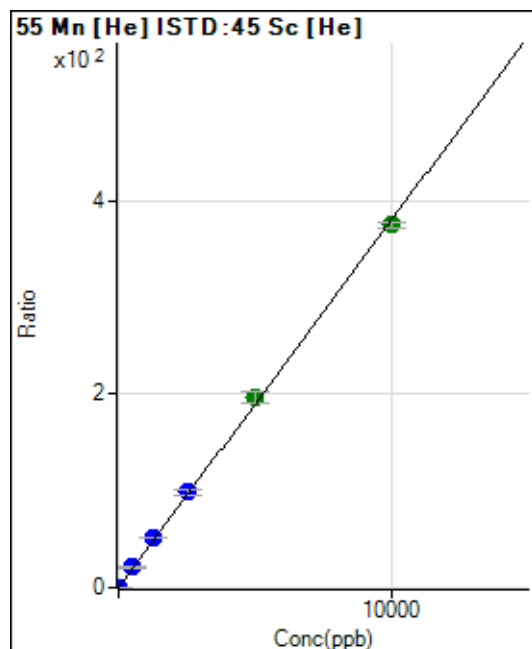
$$R = 1.0000$$

$$DL = 7.741$$

$$BEC = 12.99$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	92.22	0.0077	P	25.8
2	☐	1.000	1.007	560.01	0.0460	P	7.7
3	☐	500.000	550.782	259078.03	20.9407	P	1.4
4	☐	1250.000	1356.900	646886.34	51.5780	P	1.5
5	☐	2500.000	2601.419	1272739.96	98.8772	P	5.2
6	☐	5000.000	5178.776	2589302.48	196.8321	A	6.4
7	☐	10000.000	9869.356	5204030.24	375.1021	A	1.8
8	☐			3554.93	0.2845	P	2.9

$$y = 0.0380 * x + 0.0077$$

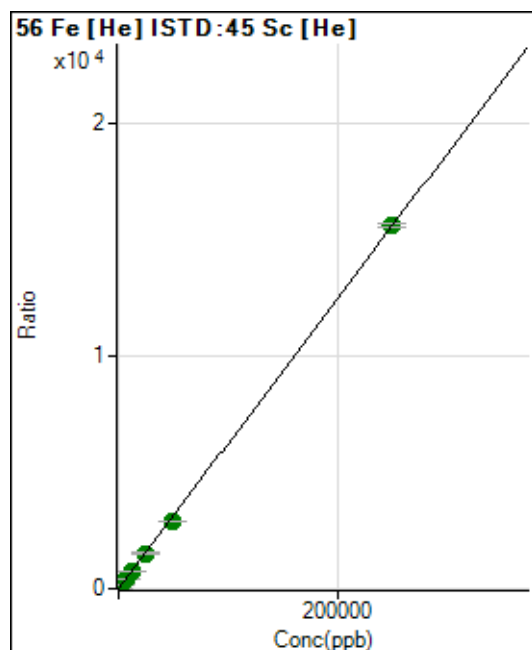
$$R = 0.9997$$

$$DL = 0.1577$$

$$BEC = 0.2037$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	3694.99	0.3093	P	1.9
2	☐	50.000	48.518	40435.05	3.3231	P	2.6
3	☐	2500.000	2614.086	2012857.08	162.6904	A	1.3
4	☐	6250.000	6412.232	4999723.61	398.6225	A	1.3
5	☐	12500.000	12156.399	9726575.80	755.4371	A	4.3
6	☐	25000.000	24180.770	19767342.11	1,502.3636	A	5.9
7	☐	50000.000	46606.037	40173021.27	2,895.3700	A	0.7
8	☐	250000.00	250772.69	194649561.7	15,577.737	A	1.2

$$y = 0.0621 * x + 0.3093$$

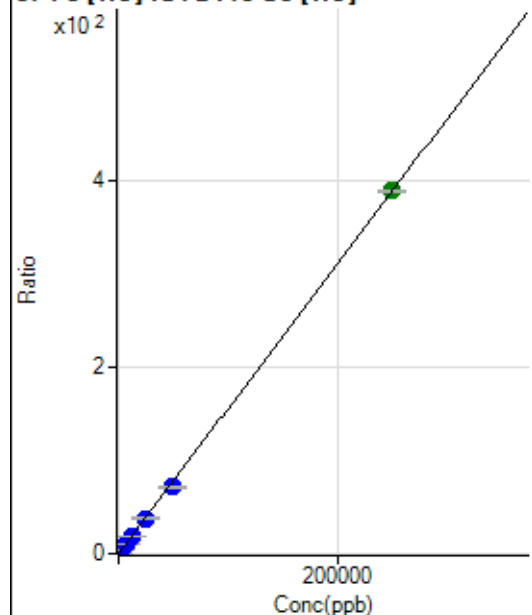
$$R = 0.9999$$

$$DL = 0.2856$$

$$BEC = 4.979$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	174.08	0.0146	P	7.6
2	☐	50.000	48.282	1088.95	0.0895	P	5.8
3	☐	2500.000	2548.179	49125.29	3.9704	P	0.9
4	☐	6250.000	6364.755	124107.22	9.8953	P	1.3
5	☐	12500.000	12159.012	243110.61	18.8904	P	5.8
6	☐	25000.000	24248.530	495343.20	37.6583	P	6.5
7	☐	50000.000	46142.996	994033.10	71.6475	P	1.5
8	☐	250000.00	250860.24	4866561.51	389.4528	A	0.6

$$y = 0.0016 * x + 0.0146$$

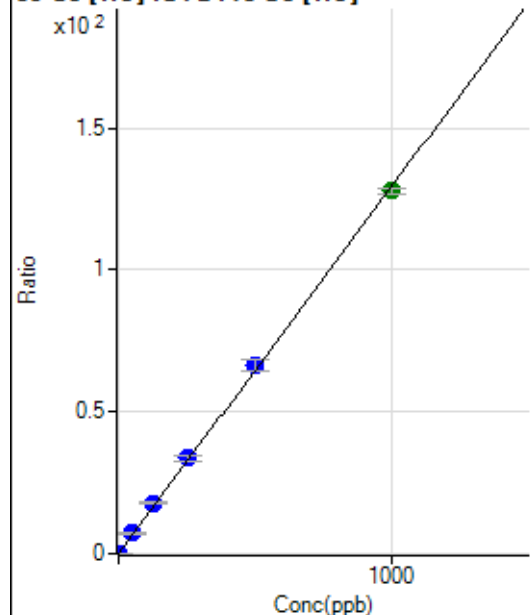
$$R = 0.9999$$

$$DL = 2.132$$

$$BEC = 9.385$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	28.89	0.0024	P	40.6
2	☐	1.000	1.029	1650.11	0.1356	P	2.9
3	☐	50.000	55.247	88467.12	7.1513	P	2.2
4	☐	125.000	137.859	223760.95	17.8412	P	1.5
5	☐	250.000	260.053	433220.91	33.6530	P	5.0
6	☐	500.000	514.341	875470.47	66.5575	P	6.6
7	☐	1000.000	988.446	1774574.88	127.9061	A	1.5
8	☐			2975.89	0.2381	P	2.4

$$y = 0.1294 * x + 0.0024$$

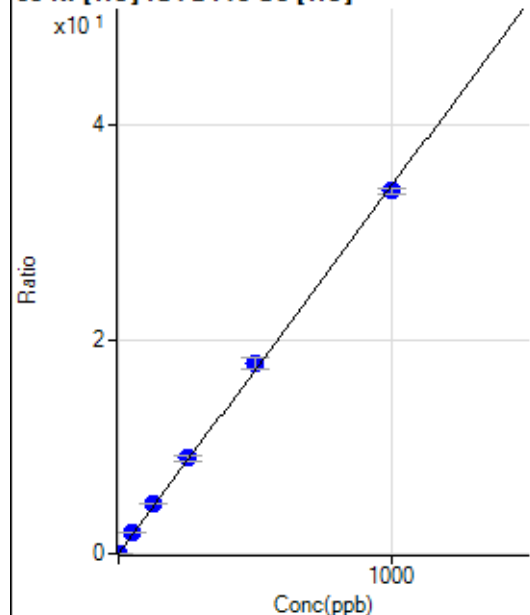
$$R = 0.9997$$

$$DL = 0.02279$$

$$BEC = 0.01872$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	63.33	0.0053	P	38.3
2	☐	1.000	1.058	506.68	0.0416	P	4.6
3	☐	50.000	55.892	23811.09	1.9247	P	1.9
4	☐	125.000	137.383	59241.63	4.7232	P	0.6
5	☐	250.000	258.878	114510.95	8.8954	P	5.1
6	☐	500.000	518.430	234278.41	17.8087	P	6.3
7	☐	1000.000	986.723	470198.80	33.8903	P	1.3
8	☐			547.79	0.0439	P	8.3

$$y = 0.0343 * x + 0.0053$$

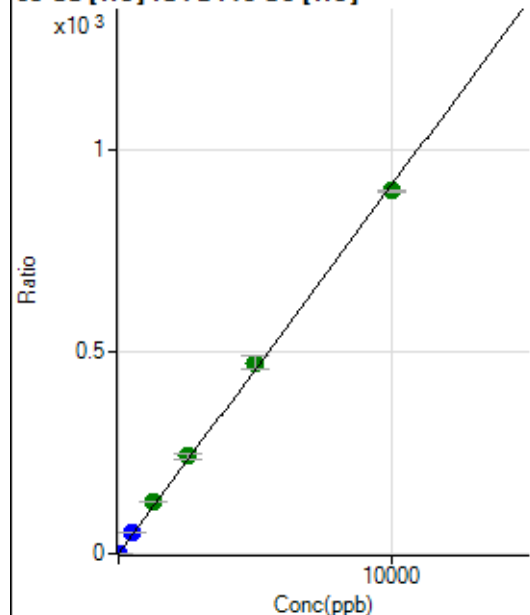
$$R = 0.9997$$

$$DL = 0.1778$$

$$BEC = 0.1547$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	345.81	0.0289	P	3.3
2	☐	2.000	2.132	2724.13	0.2239	P	2.8
3	☐	500.000	558.534	631946.45	51.0837	P	2.0
4	☐	1250.000	1401.309	1606944.49	128.1204	A	1.3
5	☐	2500.000	2652.592	3120112.22	242.4983	A	6.6
6	☐	5000.000	5179.073	6226731.07	473.4400	A	6.8
7	☐	10000.000	9850.475	12493444.23	900.4457	A	0.9
8	☐			4868.30	0.3896	P	5.1

$$y = 0.0914 * x + 0.0289$$

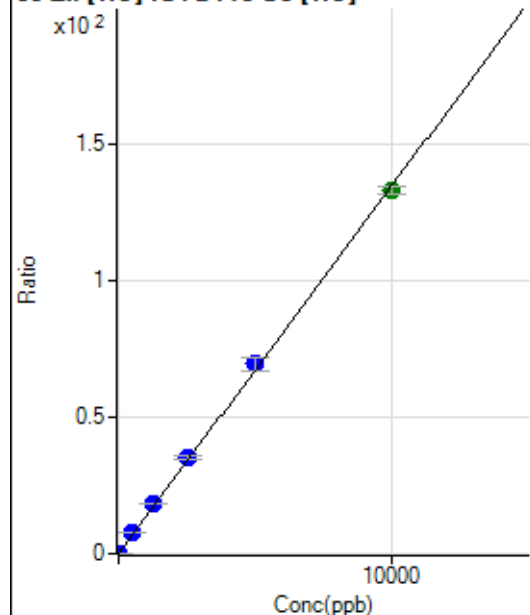
$$R = 0.9996$$

$$DL = 0.03164$$

$$BEC = 0.3165$$

Weight: <None>

Min Conc: 0

⁶⁶Zn [He] ISTD: ⁴⁵Sc [He]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	85.55	0.0072	P	13.4
2	☐	2.000	2.167	442.23	0.0363	P	9.0
3	☐	500.000	557.489	92916.49	7.5111	P	2.2
4	☐	1250.000	1373.092	231894.32	18.4892	P	1.2
5	☐	2500.000	2611.984	452663.67	35.1649	P	5.1
6	☐	5000.000	5159.489	913450.24	69.4548	P	6.9
7	☐	10000.000	9873.998	1843989.30	132.9130	A	2.1
8	☐			2035.72	0.1630	P	4.3

$$y = 0.0135 * x + 0.0072$$

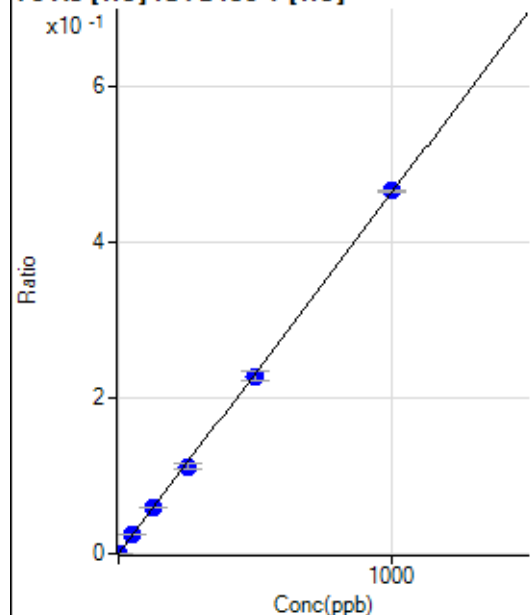
$$R = 0.9997$$

$$DL = 0.2147$$

$$BEC = 0.5325$$

Weight: <None>

Min Conc: 0

⁷⁵As [He] ISTD: ⁸⁹Y [He]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	9.00	0.0000	P	22.3
2	☐	1.000	0.907	129.35	0.0005	P	13.3
3	☐	50.000	51.118	6934.07	0.0237	P	0.3
4	☐	125.000	128.642	17437.16	0.0595	P	0.7
5	☐	250.000	241.860	33829.37	0.1119	P	5.1
6	☐	500.000	492.753	68822.28	0.2280	P	4.8
7	☐	1000.000	1005.147	141156.41	0.4650	P	0.9
8	☐			54.67	0.0002	P	12.3

$$y = 4.6255E-004 * x + 3.1821E-005$$

$$R = 0.9999$$

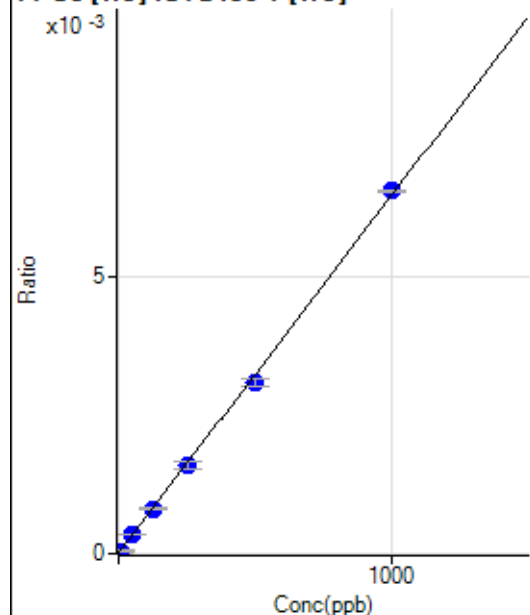
$$DL = 0.04604$$

$$BEC = 0.06879$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	2.22	0.0000	P	86.6
2	☐	5.000	5.988	13.33	0.0000	P	24.2
3	☐	50.000	52.236	101.11	0.0003	P	6.7
4	☐	125.000	124.450	237.78	0.0008	P	7.1
5	☐	250.000	245.590	481.12	0.0016	P	10.0
6	☐	500.000	476.738	934.48	0.0031	P	3.8
7	☐	1000.000	1012.685	1987.94	0.0065	P	0.3
8	☐			2.22	0.0000	P	86.6

$$y = 6.4583\text{E-}006 * x + 7.8480\text{E-}006$$

$$R = 0.9996$$

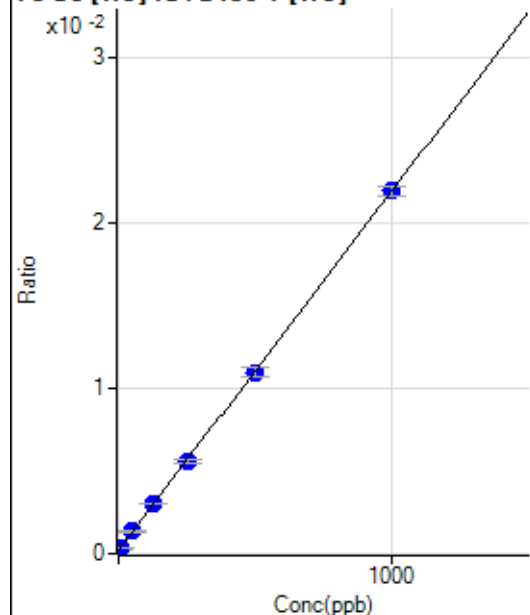
$$DL = 3.157$$

$$BEC = 1.215$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	62.34	0.0002	P	13.6
2	☐	5.000	5.474	97.01	0.0003	P	11.8
3	☐	50.000	51.978	394.71	0.0013	P	9.0
4	☐	125.000	128.674	882.12	0.0030	P	1.3
5	☐	250.000	248.002	1692.94	0.0056	P	5.3
6	☐	500.000	496.450	3317.40	0.0110	P	5.4
7	☐	1000.000	1001.714	6664.26	0.0220	P	2.9
8	☐			64.68	0.0002	P	13.0

$$y = 2.1693\text{E-}005 * x + 2.2038\text{E-}004$$

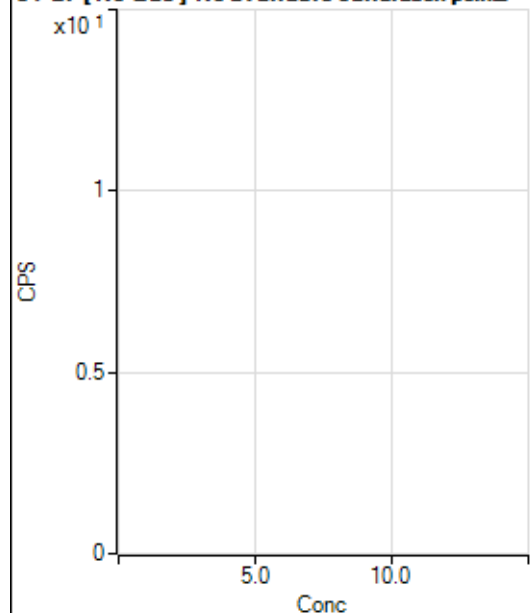
$$R = 1.0000$$

$$DL = 4.135$$

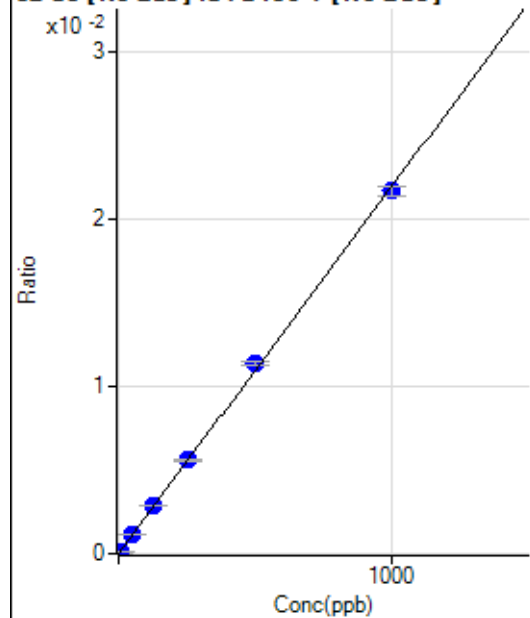
$$BEC = 10.16$$

Weight: <None>

Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			2462.76		P	6.0
2	☐			2379.33		P	7.7
3	☐			2556.21		P	6.5
4	☐			2602.94		P	13.6
5	☐			2426.06		P	3.3
6	☐			2549.54		P	16.5
7	☐			2536.19		P	11.2
8	☐			2983.40		P	7.3

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	-7.57	0.0000	P	-211.
2	☐	5.000	4.411	192.97	0.0001	P	14.8
3	☐	50.000	52.743	2444.47	0.0012	P	1.9
4	☐	125.000	131.874	6148.21	0.0029	P	0.3
5	☐	250.000	255.613	11998.61	0.0056	P	1.3
6	☐	500.000	517.562	24179.93	0.0113	P	1.7
7	☐	1000.000	988.822	48268.14	0.0217	P	2.7
8	☐			-13.01	0.0000	P	-257.

$$y = 2.1932E-005 * x - 3.6392E-006$$

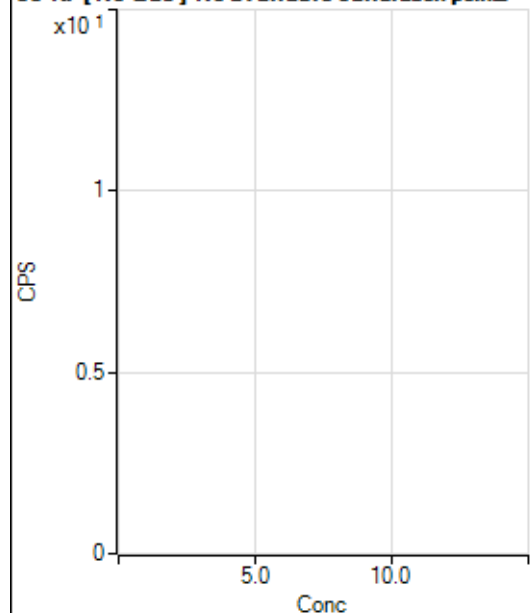
$$R = 0.9997$$

$$DL = 1.055$$

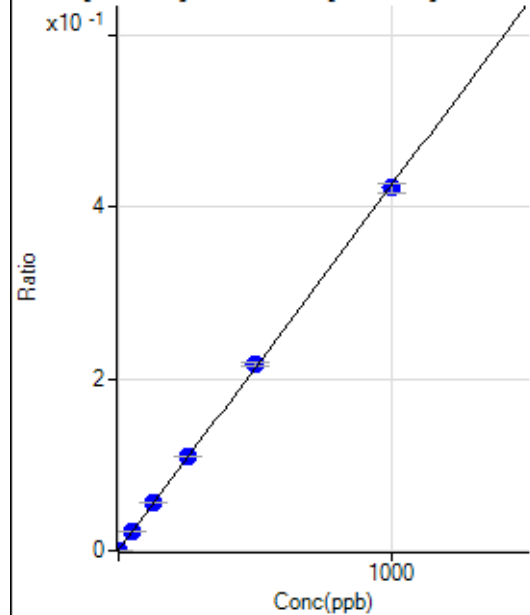
$$BEC = -0.1659$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			624.46		P	3.6
2	☐			636.69		P	6.8
3	☐			567.79		P	2.4
4	☐			604.46		P	5.8
5	☐			640.02		P	6.3
6	☐			648.91		P	3.5
7	☐			616.69		P	7.8
8	☐			642.24		P	4.4

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	919.50	0.0004	P	9.7
2	☐	1.000	1.061	1858.51	0.0009	P	4.2
3	☐	50.000	51.767	47576.11	0.0224	P	2.4
4	☐	125.000	129.604	118153.02	0.0555	P	1.8
5	☐	250.000	257.767	235532.17	0.1100	P	1.4
6	☐	500.000	509.189	461995.87	0.2168	P	1.4
7	☐	1000.000	992.800	940072.49	0.4223	P	2.9
8	☐			5965.31	0.0027	P	5.6

$$y = 4.2493E-004 * x + 4.4559E-004$$

$$R = 0.9999$$

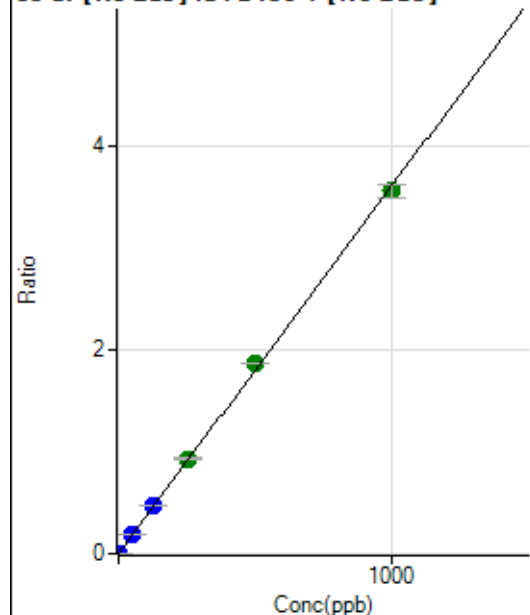
$$DL = 0.3037$$

$$BEC = 1.049$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	58.34	0.0000	P	62.5
2	☐	1.000	1.022	7699.55	0.0037	P	1.7
3	☐	50.000	52.281	399690.08	0.1885	P	2.1
4	☐	125.000	131.439	1008772.12	0.4740	P	0.7
5	☐	250.000	258.340	1995436.48	0.9316	A	1.0
6	☐	500.000	519.002	3987851.09	1.8715	A	0.2
7	☐	1000.000	987.495	7925570.40	3.5608	A	3.5
8	☐			43164.46	0.0197	P	7.0

$$y = 0.0036 * x + 2.8316E-005$$

$$R = 0.9997$$

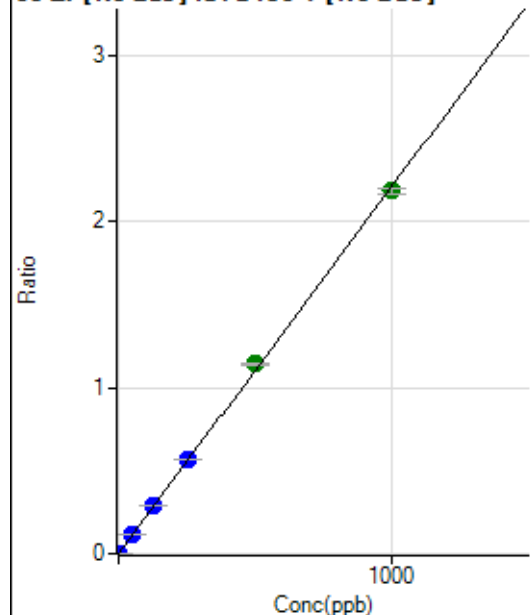
$$DL = 0.01472$$

$$BEC = 0.007853$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	55.56	0.0000	P	7.9
2	☐	1.000	0.986	4573.08	0.0022	P	4.9
3	☐	50.000	51.329	240590.97	0.1135	P	1.5
4	☐	125.000	128.990	606930.11	0.2852	P	0.7
5	☐	250.000	257.136	1217360.19	0.5684	P	1.3
6	☐	500.000	516.706	2433949.01	1.1422	A	1.5
7	☐	1000.000	989.298	4868615.04	2.1869	A	1.8
8	☐			1383.45	0.0006	P	12.2

$$y = 0.0022 * x + 2.6919E-005$$

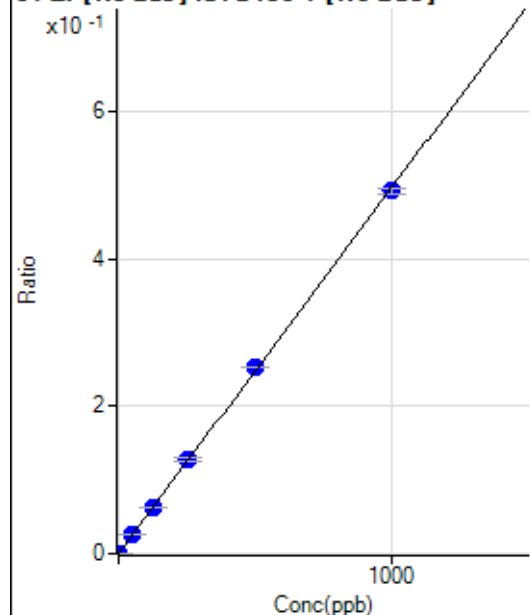
$$R = 0.9998$$

$$DL = 0.002895$$

$$BEC = 0.01218$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	8.33	0.0000	P	100.5
2	☐	1.000	0.957	994.51	0.0005	P	13.9
3	☐	50.000	51.044	53798.91	0.0254	P	0.7
4	☐	125.000	127.685	135093.04	0.0635	P	1.4
5	☐	250.000	257.758	274398.41	0.1281	P	2.5
6	☐	500.000	511.223	541503.70	0.2541	P	0.4
7	☐	1000.000	992.061	1097875.97	0.4931	P	1.8
8	☐			302.79	0.0001	P	20.0

$$y = 4.9708\text{E-}004 * x + 4.0553\text{E-}006$$

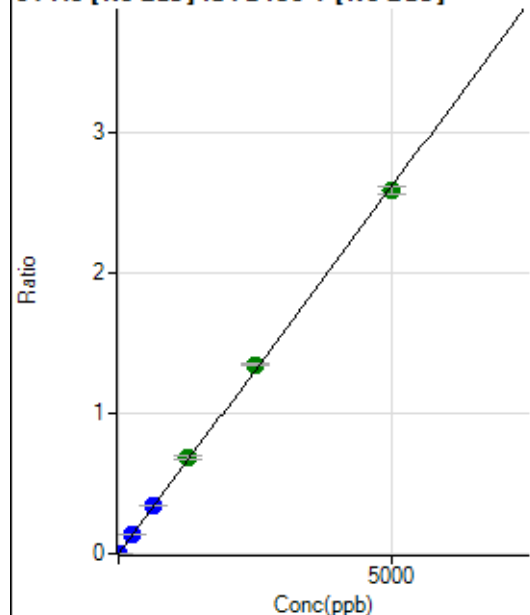
$$R = 0.9999$$

$$DL = 0.02461$$

$$BEC = 0.008158$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	30.56	0.0000	P	87.8
2	☐	5.000	5.253	5720.77	0.0028	P	5.3
3	☐	250.000	261.749	290020.28	0.1368	P	0.6
4	☐	625.000	653.471	726811.03	0.3415	P	0.7
5	☐	1250.000	1306.278	1461738.41	0.6826	A	2.8
6	☐	2500.000	2579.698	2872605.49	1.3481	A	0.5
7	☐	5000.000	4941.935	5749224.39	2.5825	A	2.0
8	☐			1316.76	0.0006	P	7.4

$$y = 5.2257\text{E-}004 * x + 1.4867\text{E-}005$$

$$R = 0.9997$$

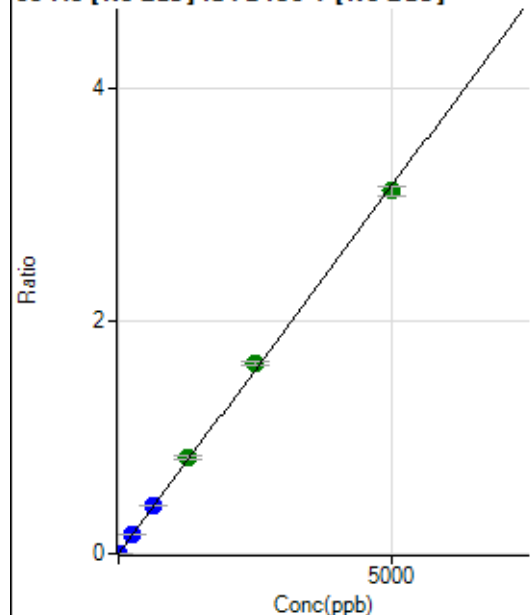
$$DL = 0.07494$$

$$BEC = 0.02845$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	25.00	0.0000	P	32.9
2	☐	5.000	4.990	6568.43	0.0032	P	3.9
3	☐	250.000	261.717	351122.25	0.1656	P	0.7
4	☐	625.000	658.691	887149.92	0.4168	P	0.6
5	☐	1250.000	1309.477	1774341.90	0.8286	A	2.9
6	☐	2500.000	2589.868	3492167.05	1.6389	A	1.3
7	☐	5000.000	4935.399	6951972.99	3.1231	A	2.9
8	☐			1508.46	0.0007	P	16.7

$$y = 6.3280E-004 * x + 1.2103E-005$$

$$R = 0.9997$$

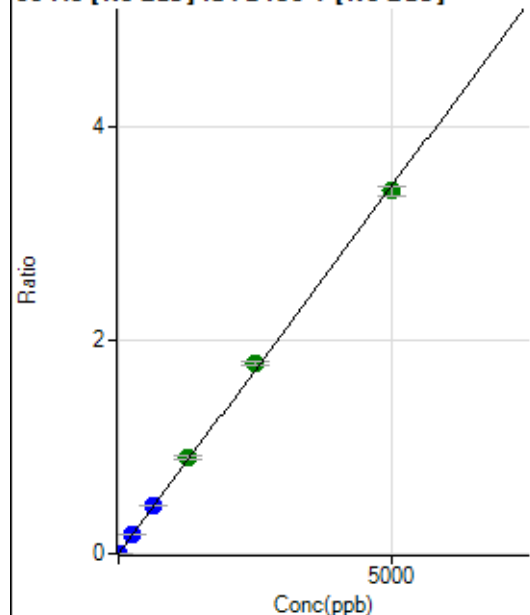
$$DL = 0.01887$$

$$BEC = 0.01913$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	66.67	0.0000	P	45.9
2	☐	5.000	4.962	7154.80	0.0035	P	1.5
3	☐	250.000	260.935	381276.77	0.1799	P	1.1
4	☐	625.000	656.095	962371.21	0.4522	P	0.6
5	☐	1250.000	1306.303	1927750.67	0.9003	A	3.0
6	☐	2500.000	2585.373	3796487.63	1.7817	A	2.5
7	☐	5000.000	4938.804	7576728.47	3.4036	A	2.4
8	☐			2078.00	0.0010	P	14.4

$$y = 6.8914E-004 * x + 3.2394E-005$$

$$R = 0.9997$$

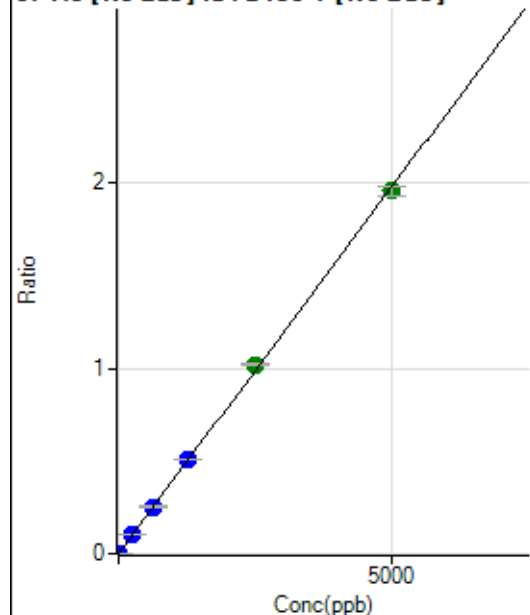
$$DL = 0.06474$$

$$BEC = 0.04701$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	19.44	0.0000	P	64.9
2	☐	5.000	4.890	4028.49	0.0019	P	2.0
3	☐	250.000	259.071	217278.28	0.1025	P	0.5
4	☐	625.000	642.651	541064.09	0.2542	P	1.0
5	☐	1250.000	1286.588	1089977.51	0.5089	P	1.3
6	☐	2500.000	2575.630	2171054.39	1.0189	A	1.2
7	☐	5000.000	4950.378	4359326.44	1.9582	A	2.4
8	☐			880.61	0.0004	P	5.8

$$y = 3.9557E-004 * x + 9.3957E-006$$

$$R = 0.9998$$

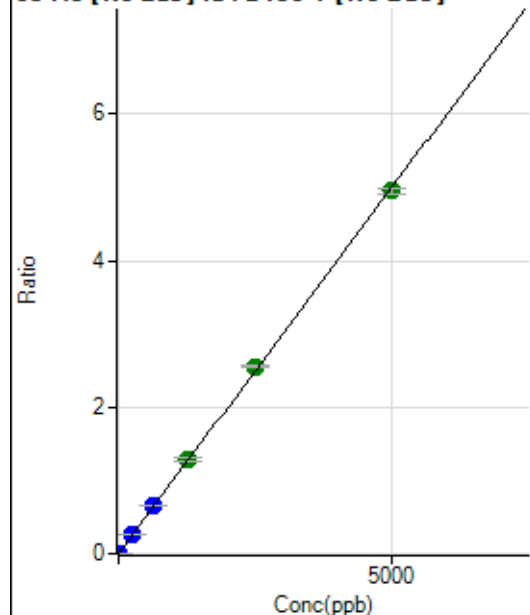
$$DL = 0.04627$$

$$BEC = 0.02375$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	16.67	0.0000	P	49.6
2	☐	5.000	4.955	10267.99	0.0050	P	2.9
3	☐	250.000	259.270	548708.55	0.2588	P	1.8
4	☐	625.000	650.588	1382387.16	0.6495	P	0.8
5	☐	1250.000	1288.346	2753666.49	1.2862	A	3.7
6	☐	2500.000	2554.211	5433521.65	2.5499	A	1.0
7	☐	5000.000	4959.646	11023392.61	4.9513	A	1.5
8	☐			1930.74	0.0009	P	8.9

$$y = 9.9832E-004 * x + 8.0741E-006$$

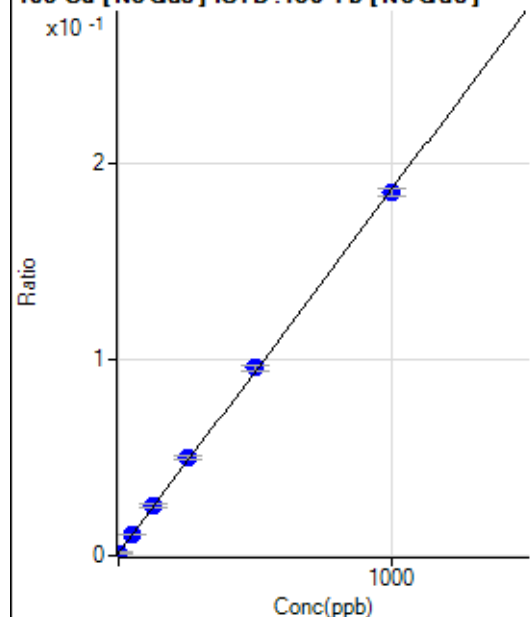
$$R = 0.9999$$

$$DL = 0.01204$$

$$BEC = 0.008088$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	441.69	0.0012	P	20.3
2	☐	1.000	1.000	511.14	0.0014	P	6.5
3	☐	50.000	49.757	3822.85	0.0105	P	2.0
4	☐	125.000	131.241	9219.96	0.0256	P	4.8
5	☐	250.000	261.281	18173.45	0.0497	P	4.2
6	☐	500.000	510.599	34819.54	0.0960	P	3.0
7	☐	1000.000	991.112	69421.98	0.1852	P	2.1
8	☐			500.02	0.0013	P	9.5

$$y = 1.8556E-004 * x + 0.0012$$

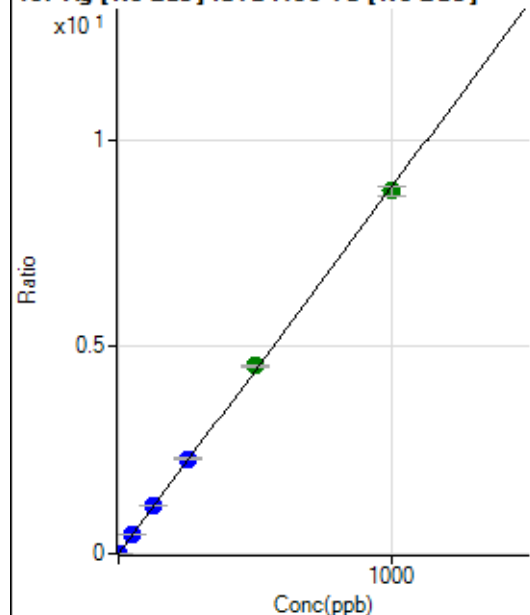
$$R = 0.9998$$

$$DL = 4.083$$

$$BEC = 6.708$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	25.00	0.0001	P	66.1
2	☐	1.000	0.955	3044.87	0.0085	P	2.0
3	☐	50.000	52.272	168772.67	0.4626	P	1.4
4	☐	125.000	132.165	421119.81	1.1696	P	1.8
5	☐	250.000	259.640	839767.01	2.2975	P	1.9
6	☐	500.000	512.970	1646757.37	4.5392	A	1.1
7	☐	1000.000	990.096	3284455.31	8.7611	A	2.9
8	☐			1683.48	0.0045	P	3.3

$$y = 0.0088 * x + 7.0250E-005$$

$$R = 0.9998$$

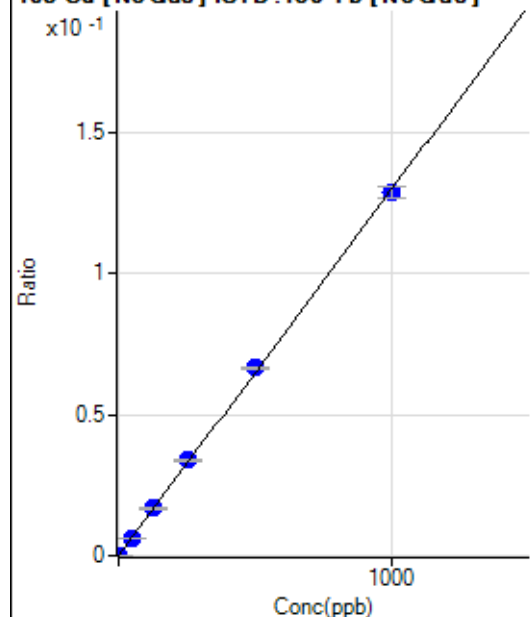
$$DL = 0.01574$$

$$BEC = 0.007939$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	8.33	0.0000	P	50.4
2	☐	1.000	0.959	52.78	0.0001	P	29.9
3	☐	50.000	48.666	2309.95	0.0063	P	3.2
4	☐	125.000	129.046	6027.79	0.0167	P	5.2
5	☐	250.000	260.474	12344.51	0.0338	P	2.9
6	☐	500.000	512.391	24092.01	0.0664	P	1.9
7	☐	1000.000	990.747	48128.15	0.1284	P	3.2
8	☐			70.83	0.0002	P	38.0

$$y = 1.2957E-004 * x + 2.3488E-005$$

$$R = 0.9998$$

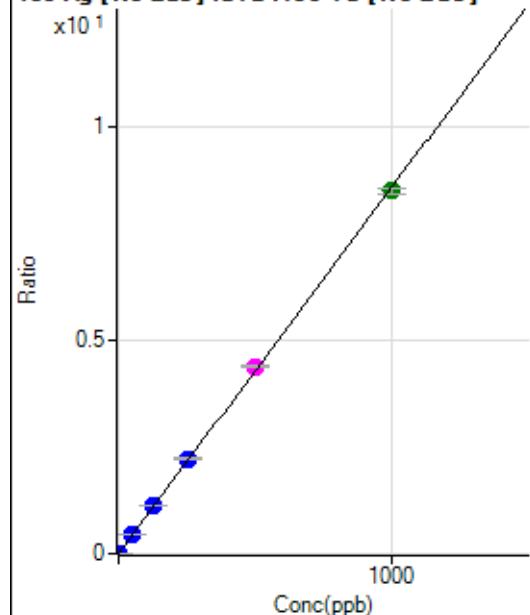
$$DL = 0.2739$$

$$BEC = 0.1813$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	19.44	0.0001	P	65.7
2	☐	1.000	0.942	2911.51	0.0081	P	5.9
3	☐	50.000	52.636	164977.18	0.4522	P	1.0
4	☐	125.000	131.658	407242.18	1.1310	P	1.2
5	☐	250.000	258.572	811888.00	2.2212	P	1.3
6	☐	500.000	511.016	1592505.75	4.3896	M	1.1
7	☐	1000.000	991.385	3193046.84	8.5159	A	1.9
8	☐			1705.71	0.0045	P	6.2

$$y = 0.0086 * x + 5.4869E-005$$

$$R = 0.9999$$

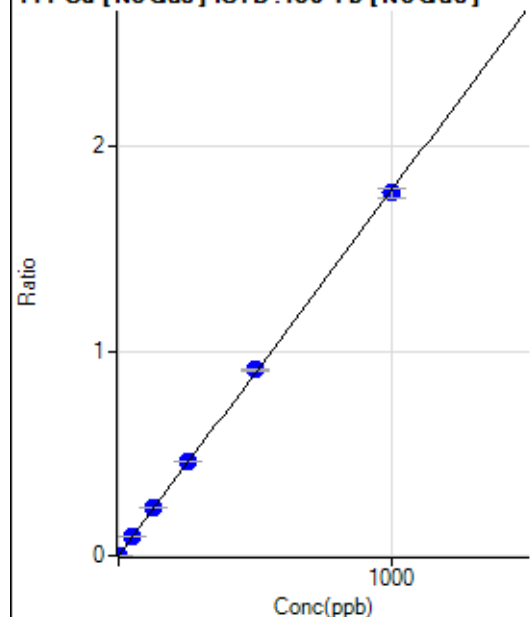
$$DL = 0.01258$$

$$BEC = 0.006388$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	321.41	0.0009	P	23.2
2	☐	1.000	0.947	927.82	0.0026	P	7.2
3	☐	50.000	51.425	33835.62	0.0928	P	2.2
4	☐	125.000	130.555	84293.61	0.2341	P	1.1
5	☐	250.000	257.894	168701.76	0.4615	P	0.6
6	☐	500.000	508.523	329821.97	0.9091	P	1.0
7	☐	1000.000	992.999	665228.94	1.7744	P	2.5
8	☐			596.27	0.0016	P	14.0

$$y = 0.0018 * x + 9.0573E-004$$

$$R = 0.9999$$

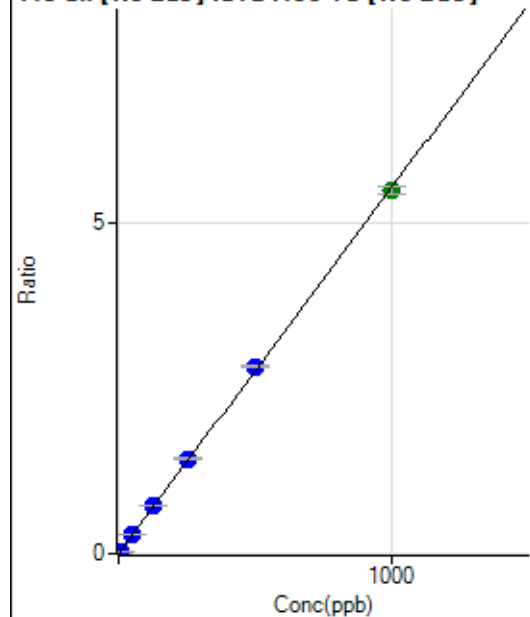
$$DL = 0.3523$$

$$BEC = 0.5071$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	230.56	0.0006	P	20.4
2	☐	5.000	4.623	9378.43	0.0262	P	1.9
3	☐	50.000	50.833	102885.57	0.2821	P	2.9
4	☐	125.000	130.134	259633.80	0.7211	P	1.4
5	☐	250.000	257.768	521816.11	1.4276	P	1.8
6	☐	500.000	511.499	1027553.97	2.8323	P	0.6
7	☐	1000.000	991.627	2058427.93	5.4902	A	2.2
8	☐			663.92	0.0018	P	24.3

$$y = 0.0055 * x + 6.4895E-004$$

$$R = 0.9999$$

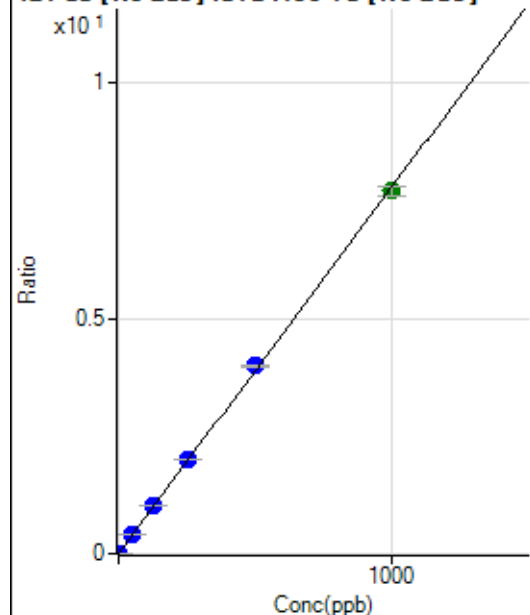
$$DL = 0.0718$$

$$BEC = 0.1172$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	33.33	0.0001	P	50.4
2	☐	2.000	1.949	5456.78	0.0153	P	4.3
3	☐	50.000	50.896	144620.96	0.3965	P	2.6
4	☐	125.000	129.798	364011.35	1.0109	P	1.5
5	☐	250.000	257.181	732116.53	2.0030	P	1.5
6	☐	500.000	513.726	1451443.01	4.0009	P	1.3
7	☐	1000.000	990.697	2892693.71	7.7154	A	2.4
8	☐			1911.30	0.0051	P	5.5

$$y = 0.0078 * x + 9.3953E-005$$

$$R = 0.9998$$

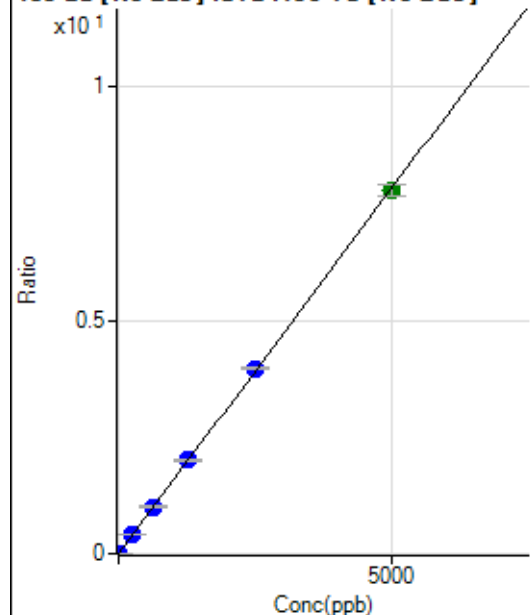
$$DL = 0.01823$$

$$BEC = 0.01206$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	22.22	0.0001	P	42.5
2	☐	10.000	9.503	5337.31	0.0149	P	2.2
3	☐	250.000	252.517	144214.45	0.3953	P	1.1
4	☐	625.000	644.864	363435.88	1.0093	P	1.1
5	☐	1250.000	1285.781	735530.65	2.0124	P	1.8
6	☐	2500.000	2540.154	1442303.18	3.9755	P	1.0
7	☐	5000.000	4968.370	2914884.03	7.7758	A	3.1
8	☐			5259.52	0.0140	P	4.8

$$y = 0.0016 * x + 6.2464E-005$$

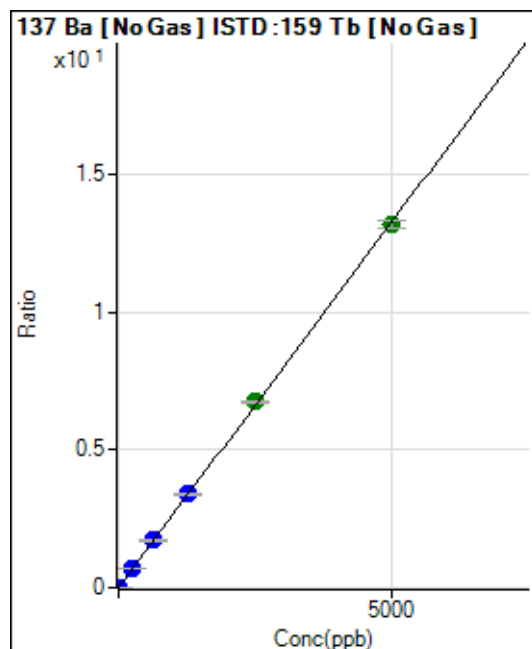
$$R = 0.9999$$

$$DL = 0.05083$$

$$BEC = 0.03991$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	22.22	0.0001	P	21.5
2	☐	10.000	9.826	9339.60	0.0261	P	2.2
3	☐	250.000	256.145	247973.73	0.6797	P	1.8
4	☐	625.000	645.442	616719.59	1.7127	P	1.1
5	☐	1250.000	1283.900	1245296.12	3.4069	P	1.2
6	☐	2500.000	2546.934	2451848.67	6.7583	A	1.0
7	☐	5000.000	4965.196	4939840.56	13.1751	A	2.0
8	☐			8867.01	0.0236	P	2.1

$$y = 0.0027 * x + 6.2580E-005$$

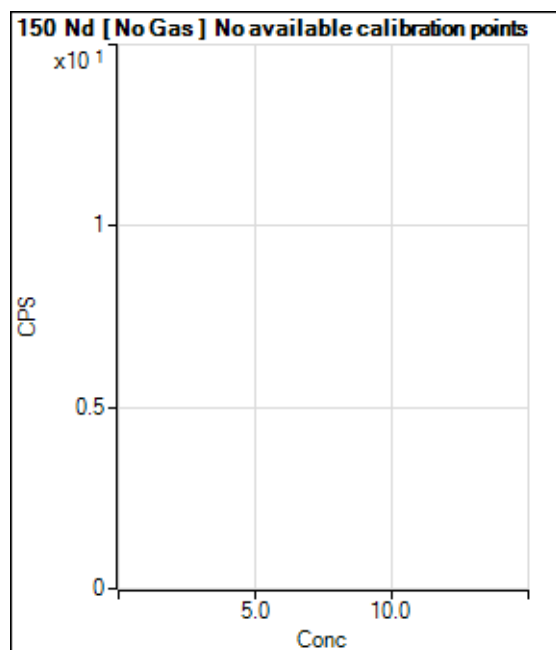
$$R = 0.9999$$

$$DL = 0.0152$$

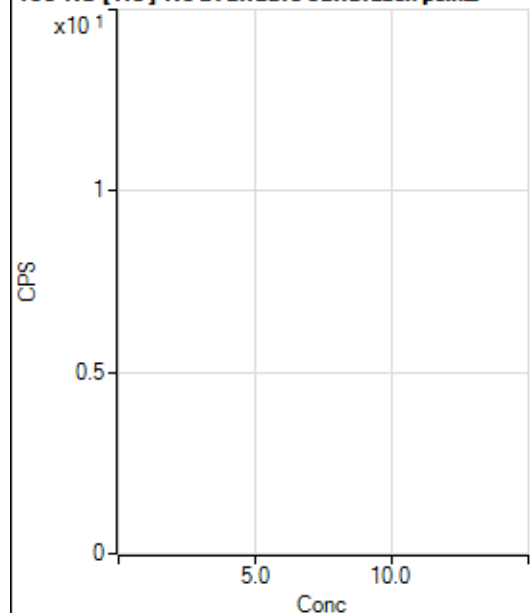
$$BEC = 0.02358$$

Weight: <None>

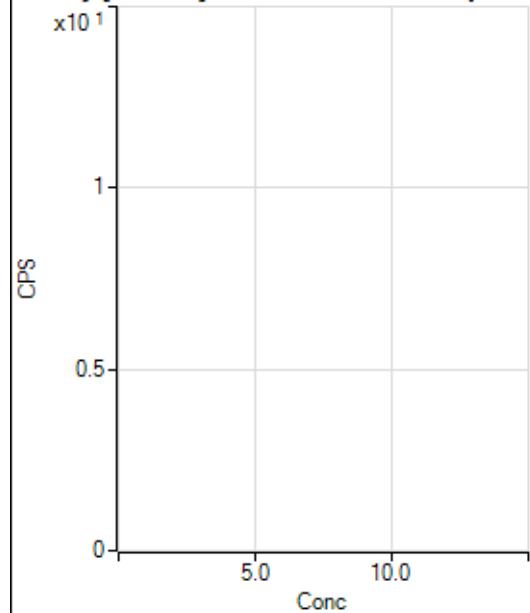
Min Conc: 0



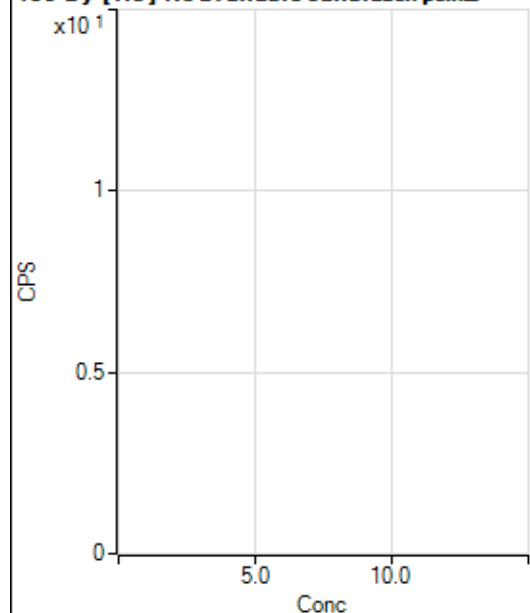
	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			6.67		P	0.0
2	☐			2.22		P	173.2
3	☐			8.89		P	114.5
4	☐			11.11		P	124.9
5	☐			46.67		P	24.7
6	☐			66.67		P	26.5
7	☐			77.78		P	17.8
8	☐			20.00		P	57.7

150 Nd [He] No available calibration points

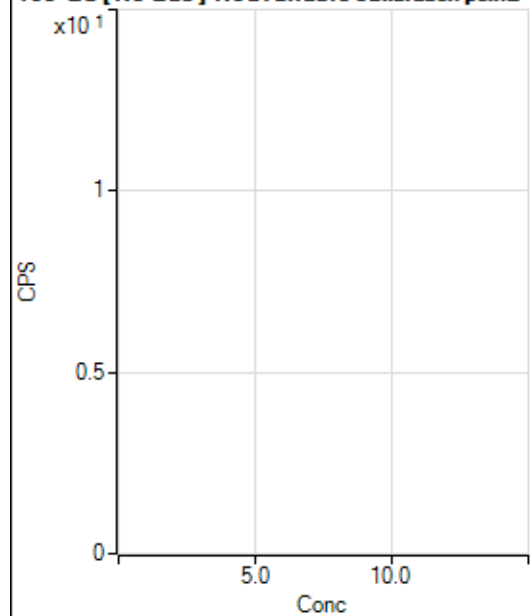
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t.	RSD
1	☐			2.22		P	86.6
2	☐			0.00		P	
3	☐			2.22		P	86.6
4	☐			0.00		P	
5	☐			1.11		P	173.2
6	☐			11.11		P	62.5
7	☐			7.78		P	65.5
8	☐			7.78		P	107.8

156 Dy [No Gas] No available calibration points

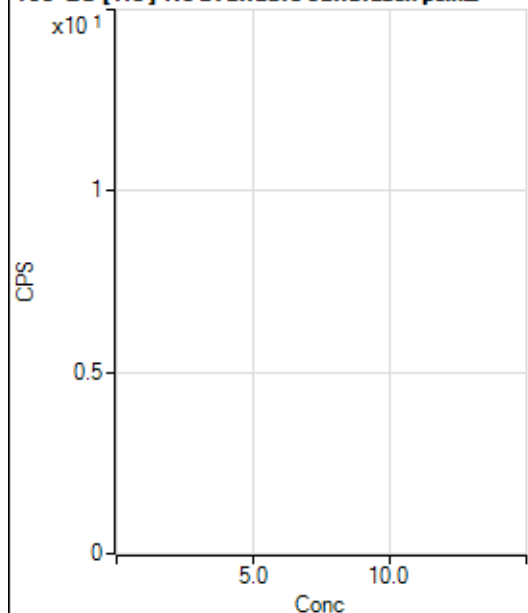
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t.	RSD
1	☐			8.33		P	100.0
2	☐			8.33		P	100.0
3	☐			13.89		P	124.9
4	☐			13.89		P	34.7
5	☐			25.00		P	33.3
6	☐			44.44		P	54.1
7	☐			63.89		P	41.9
8	☐			141.67		P	15.6

156 Dy [He] No available calibration points

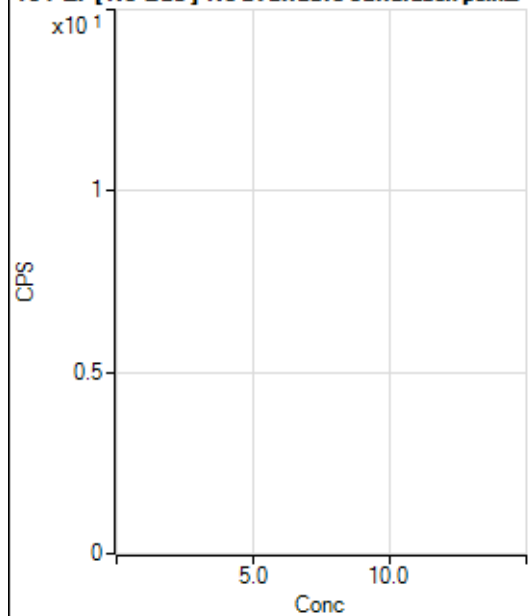
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t.	RSD
1	☐			0.00		P	
2	☐			3.33		P	0.0
3	☐			0.00		P	
4	☐			3.33		P	0.0
5	☐			5.56		P	34.7
6	☐			23.33		P	NaN
7	☐			35.56		P	28.6
8	☐			83.33		P	24.0

160 Gd [No Gas] Noavailable calibration poin_

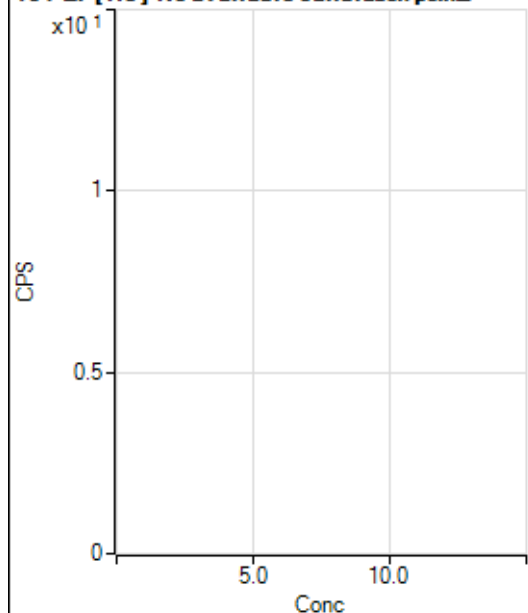
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t.	RSD
1	☐			0.00		P	
2	☐			5.56		P	173.2
3	☐			13.89		P	69.3
4	☐			11.11		P	86.6
5	☐			25.00		P	33.3
6	☐			33.33		P	25.0
7	☐			52.78		P	45.6
8	☐			130.56		P	3.7

160 Gd [He] No available calibration points

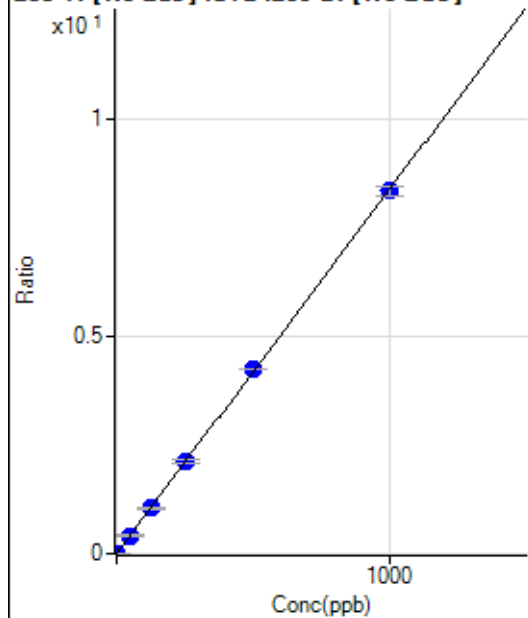
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			1.11		P	173.2
2	☐			3.33		P	0.0
3	☐			2.22		P	173.2
4	☐			2.22		P	173.2
5	☐			12.22		P	78.7
6	☐			13.33		P	50.0
7	☐			32.22		P	53.1
8	☐			95.56		P	17.9

164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			2.78		P	173.2
2	☐			2.78		P	173.2
3	☐			0.00		P	
4	☐			8.33		P	0.0
5	☐			13.89		P	34.7
6	☐			11.11		P	43.3
7	☐			36.11		P	35.3
8	☐			33.34		P	43.3

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			2.22		P	86.6
2	☐			2.22		P	86.6
3	☐			1.11		P	173.2
4	☐			7.78		P	65.5
5	☐			3.33		P	100.1
6	☐			3.33		P	0.0
7	☐			5.56		P	34.7
8	☐			6.67		P	173.2

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	27.78	0.0002	P	35.0
2	☐	1.000	0.896	1408.45	0.0077	P	19.4
3	☐	50.000	49.828	78863.97	0.4177	P	3.5
4	☐	125.000	124.456	195327.15	1.0431	P	1.2
5	☐	250.000	252.727	396668.15	2.1181	P	2.6
6	☐	500.000	506.602	781312.86	4.2456	P	0.7
7	☐	1000.000	996.094	1576500.25	8.3476	P	2.7
8	☐			1222.31	0.0066	P	10.9

$$y = 0.0084 * x + 1.5090E-004$$

$$R = 1.0000$$

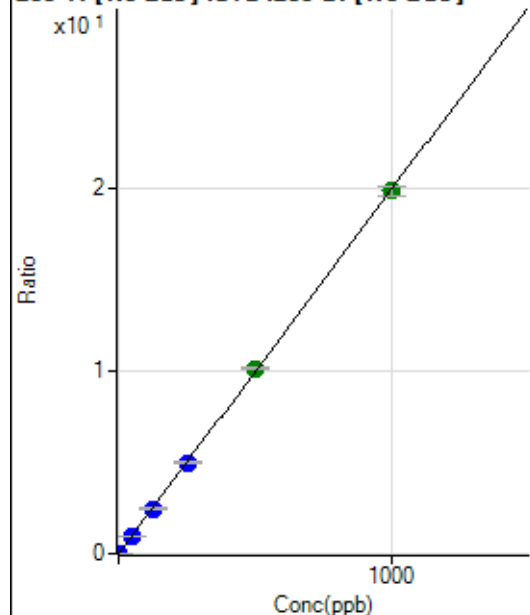
$$DL = 0.01891$$

$$BEC = 0.01801$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	50.00	0.0003	P	58.0
2	☐	1.000	0.917	3419.99	0.0186	P	1.6
3	☐	50.000	49.344	186238.99	0.9863	P	0.8
4	☐	125.000	123.979	463948.57	2.4777	P	1.2
5	☐	250.000	248.416	929697.77	4.9642	P	2.1
6	☐	500.000	509.207	1872593.27	10.1754	A	1.0
7	☐	1000.000	995.953	3758825.95	19.9017	A	2.4
8	☐			2511.44	0.0137	P	4.9

$$y = 0.0200 * x + 2.7186E-004$$

$$R = 0.9999$$

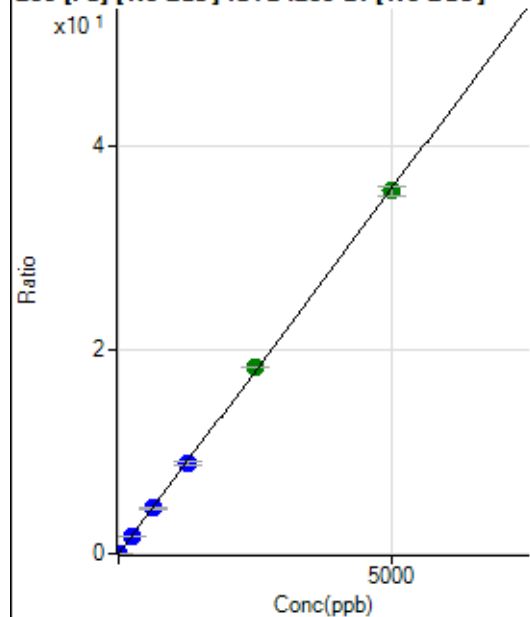
$$DL = 0.02366$$

$$BEC = 0.01361$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	288.90	0.0016	P	14.0
2	☐	1.000	0.890	1457.52	0.0079	P	9.5
3	☐	250.000	246.344	332788.21	1.7625	P	1.5
4	☐	625.000	619.645	829700.83	4.4309	P	1.1
5	☐	1250.000	1238.676	1658459.63	8.8558	P	2.5
6	☐	2500.000	2564.201	3373502.59	18.3309	A	0.4
7	☐	5000.000	4971.583	6711863.23	35.5393	A	2.7
8	☐			1568.64	0.0086	P	8.5

$$y = 0.0071 * x + 0.0016$$

$$R = 0.9999$$

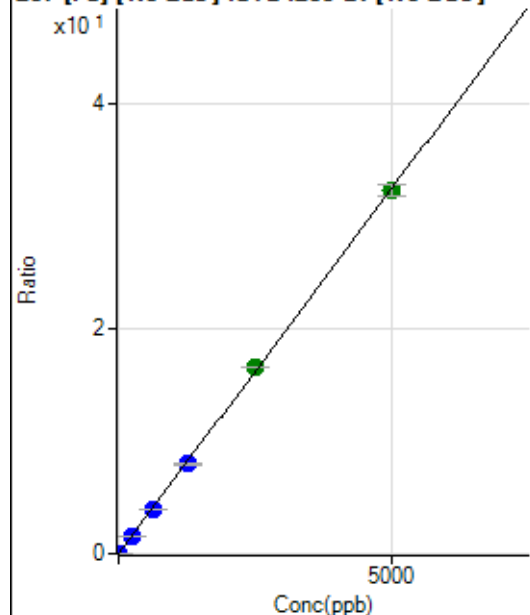
$$DL = 0.09217$$

$$BEC = 0.2194$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	231.49	0.0013	P	28.5
2	☐	1.000	0.883	1281.57	0.0070	P	7.9
3	☐	250.000	243.591	297977.06	1.5782	P	2.0
4	☐	625.000	616.174	747175.41	3.9901	P	0.9
5	☐	1250.000	1231.605	1493566.08	7.9741	P	1.7
6	☐	2500.000	2565.264	3056411.26	16.6077	A	0.3
7	☐	5000.000	4973.391	6080129.30	32.1968	A	3.2
8	☐			1431.59	0.0078	P	11.2

$$y = 0.0065 * x + 0.0013$$

$$R = 0.9999$$

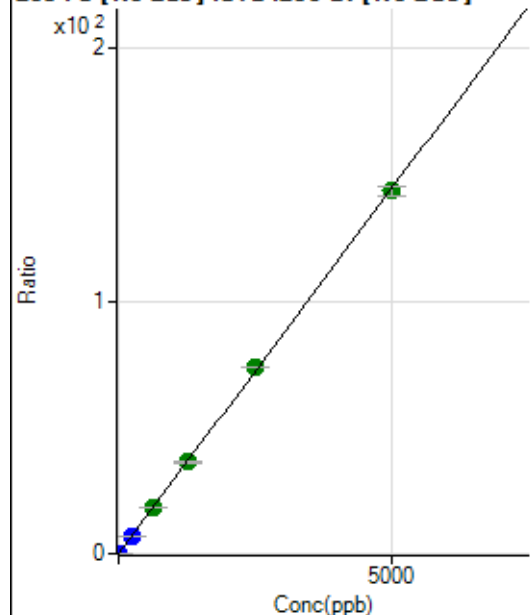
$$DL = 0.1661$$

$$BEC = 0.1943$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	1098.19	0.0060	P	12.2
2	☐	1.000	0.890	5824.69	0.0317	P	2.0
3	☐	250.000	245.819	1341973.11	7.1071	P	1.2
4	☐	625.000	630.656	3412469.08	18.2240	A	1.5
5	☐	1250.000	1255.762	6794728.54	36.2818	A	2.7
6	☐	2500.000	2554.840	13583629.12	73.8089	A	0.4
7	☐	5000.000	4970.641	27119640.31	143.5954	A	2.6
8	☐			6602.65	0.0360	P	10.9

$$y = 0.0289 * x + 0.0060$$

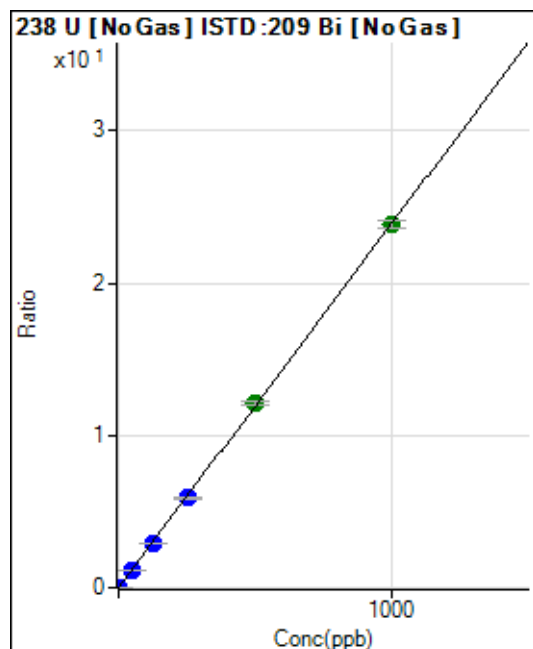
$$R = 0.9999$$

$$DL = 0.07557$$

$$BEC = 0.2064$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	8.33	0.0000	P	0.7
2	☐	1.000	0.920	4047.97	0.0220	P	1.5
3	☐	50.000	49.363	222613.80	1.1790	P	2.3
4	☐	125.000	122.875	549544.09	2.9348	P	1.3
5	☐	250.000	246.733	1103667.65	5.8930	P	2.0
6	☐	500.000	507.820	2231973.38	12.1287	A	1.4
7	☐	1000.000	997.204	4498385.21	23.8171	A	2.2
8	☐			647.26	0.0035	P	9.5

$$y = 0.0239 * x + 4.5201E-005$$

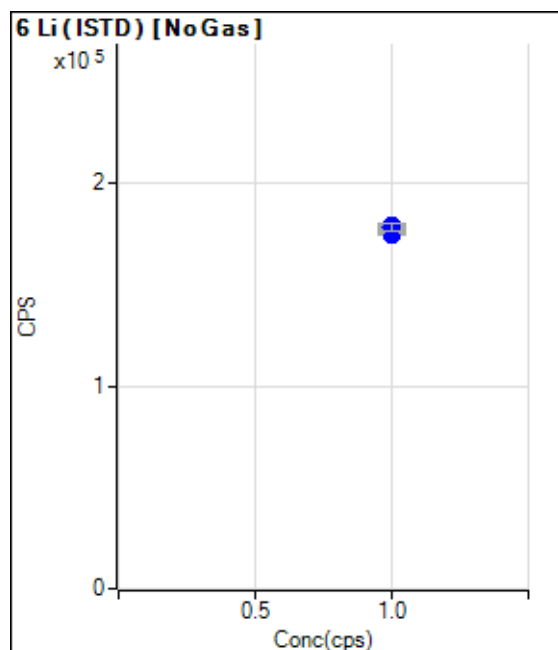
$$R = 0.9999$$

$$DL = 3.842E-05$$

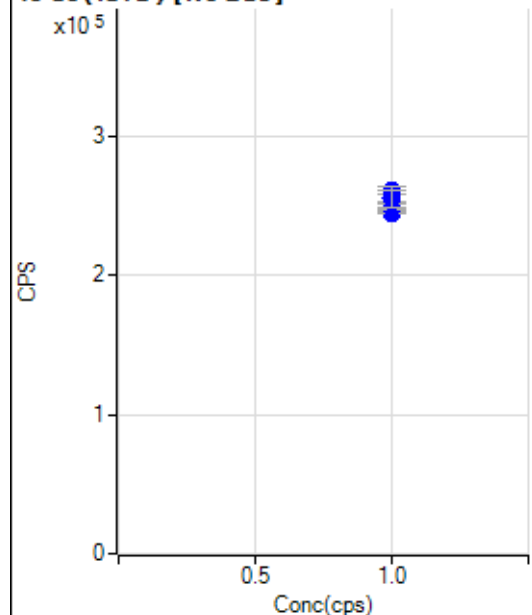
$$BEC = 0.001893$$

Weight: <None>

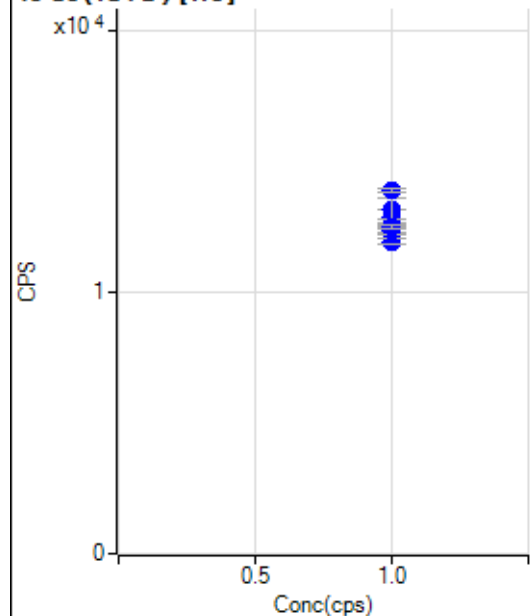
Min Conc: 0



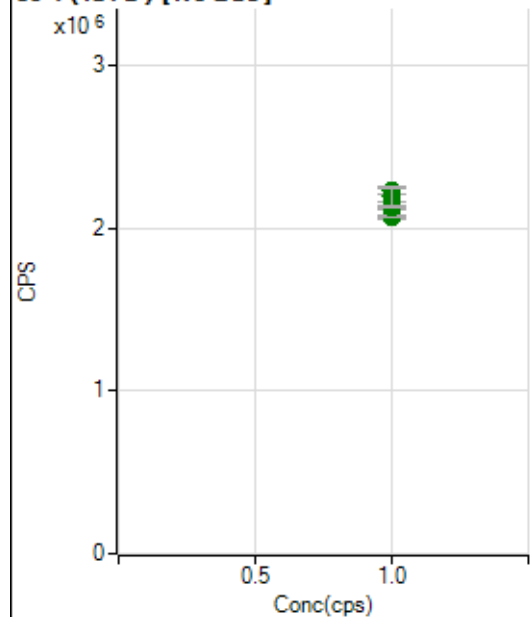
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		176042.40		P	0.3
2	☐	1.000		177169.69		P	0.5
3	☐	1.000		179155.85		P	0.5
4	☐	1.000		177434.21		P	0.3
5	☐	1.000		176605.92		P	0.6
6	☐	1.000		174697.66		P	0.1
7	☐	1.000		176913.66		P	1.0
8	☐	1.000		178412.46		P	2.2

45 Sc (ISTD) [No Gas]

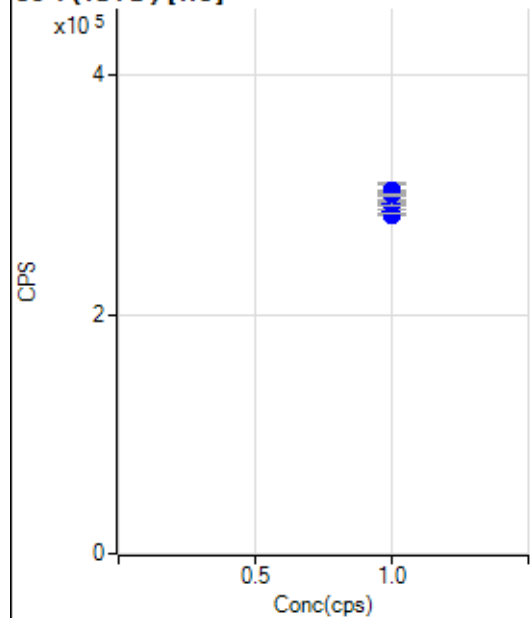
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		244535.58		P	0.7
2	☐	1.000		245010.80		P	0.4
3	☐	1.000		251722.39		P	0.5
4	☐	1.000		248956.77		P	1.3
5	☐	1.000		254625.37		P	2.2
6	☐	1.000		251770.45		P	0.3
7	☐	1.000		260251.71		P	2.0
8	☐	1.000		254567.24		P	4.9

45 Sc (ISTD) [He]

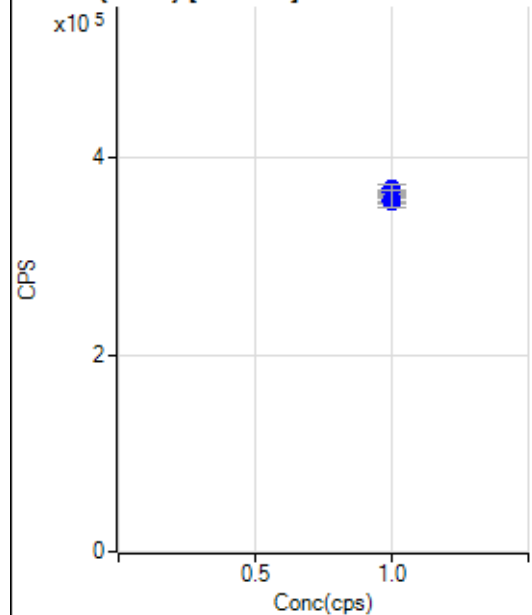
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		11947.30		P	1.8
2	☐	1.000		12171.92		P	2.3
3	☐	1.000		12374.29		P	2.1
4	☐	1.000		12543.35		P	1.3
5	☐	1.000		12891.47		P	4.4
6	☐	1.000		13189.50		P	6.3
7	☐	1.000		13875.67		P	1.2
8	☐	1.000		12496.63		P	1.5

89 Y (ISTD) [No Gas]

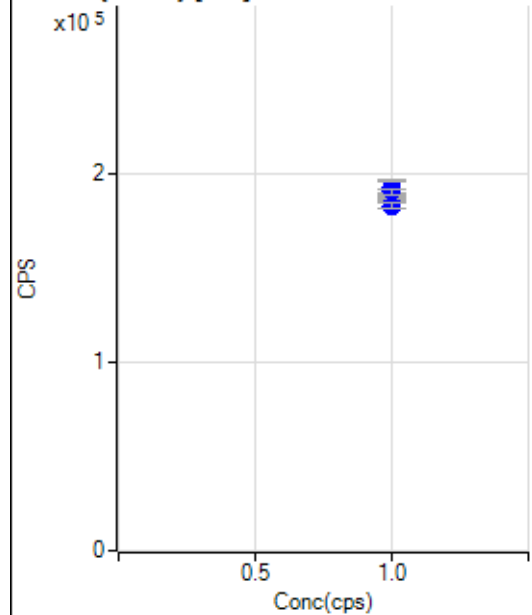
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		2063035.63		A	0.8
2	☐	1.000		2072579.71		A	0.5
3	☐	1.000		2120031.39		A	0.7
4	☐	1.000		2128398.58		A	0.9
5	☐	1.000		2142008.11		A	2.1
6	☐	1.000		2130863.58		A	0.3
7	☐	1.000		2226805.75		A	2.0
8	☐	1.000		2190725.25		A	4.5

89 Y (ISTD) [He]

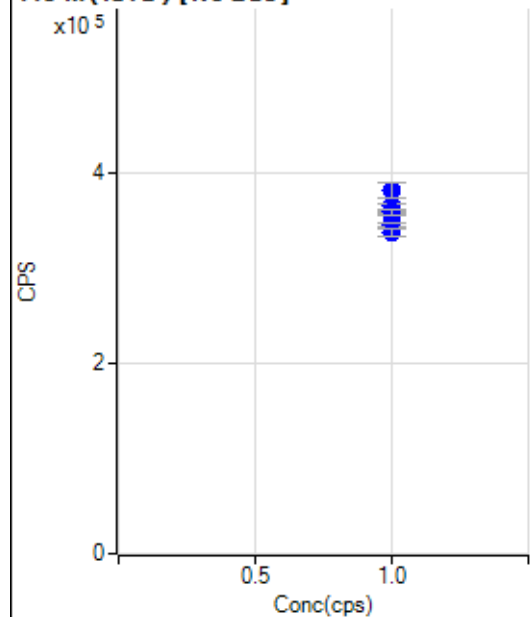
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		282868.29		P	0.1
2	☐	1.000		286293.31		P	1.1
3	☐	1.000		292870.08		P	0.4
4	☐	1.000		292894.89		P	0.6
5	☐	1.000		302779.88		P	4.7
6	☐	1.000		302380.41		P	4.8
7	☐	1.000		303591.57		P	0.4
8	☐	1.000		300197.43		P	0.2

103 Rh (ISTD) [No Gas]

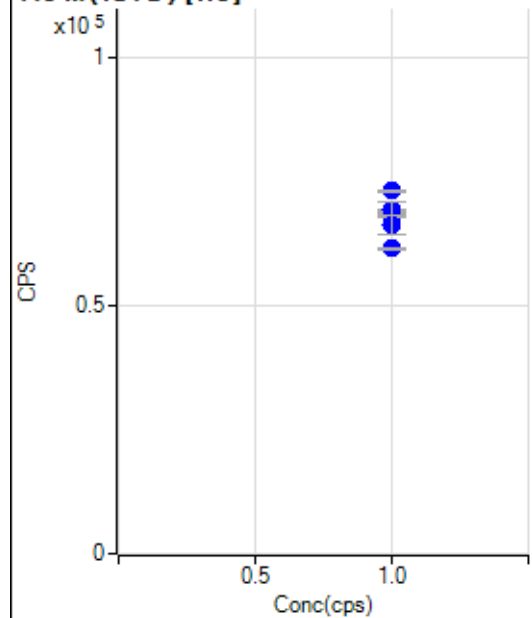
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		356999.11		P	1.3
2	☐	1.000		356411.95		P	1.3
3	☐	1.000		364076.44		P	1.4
4	☐	1.000		362688.30		P	1.0
5	☐	1.000		364640.33		P	1.3
6	☐	1.000		359911.75		P	0.7
7	☐	1.000		368533.96		P	2.5
8	☐	1.000		358424.87		P	4.7

103 Rh (ISTD) [He]

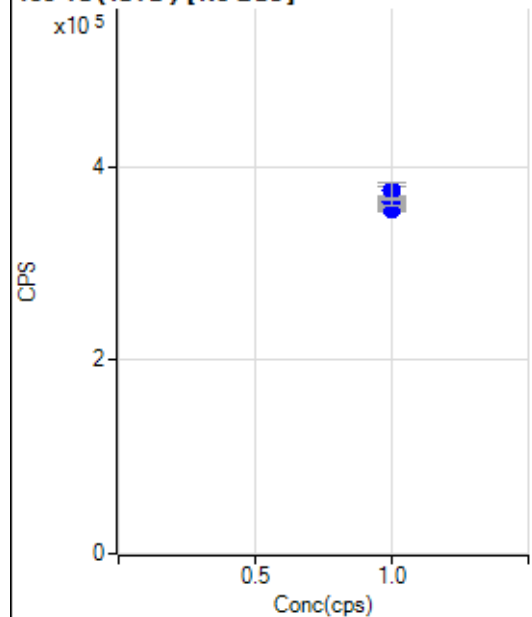
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		184820.72		P	0.7
2	☐	1.000		185564.95		P	0.5
3	☐	1.000		189074.36		P	0.5
4	☐	1.000		188020.62		P	0.4
5	☐	1.000		192420.15		P	4.9
6	☐	1.000		191055.81		P	4.6
7	☐	1.000		190576.26		P	1.5
8	☐	1.000		182969.49		P	1.3

115 In (ISTD) [No Gas]

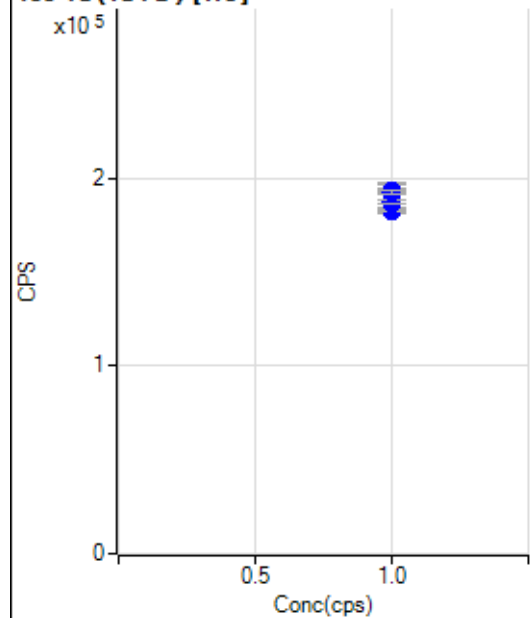
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		355627.28		P	0.4
2	☐	1.000		357999.28		P	0.5
3	☐	1.000		363963.86		P	1.3
4	☐	1.000		359266.58		P	0.4
5	☐	1.000		357721.74		P	1.8
6	☐	1.000		344826.11		P	1.0
7	☐	1.000		337254.73		P	2.4
8	☐	1.000		380220.72		P	4.4

115 In (ISTD) [He]

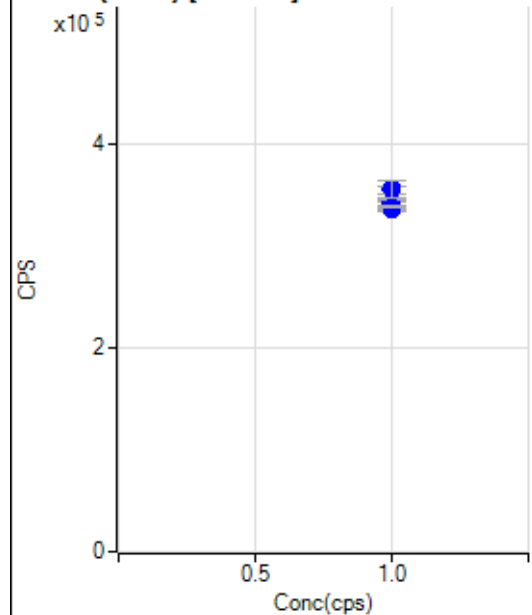
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		67628.15		P	0.2
2	☐	1.000		68233.07		P	1.5
3	☐	1.000		69184.39		P	0.4
4	☐	1.000		68556.60		P	0.5
5	☐	1.000		69261.90		P	4.7
6	☐	1.000		66342.50		P	5.8
7	☐	1.000		61400.22		P	0.8
8	☐	1.000		72995.62		P	0.4

159 Tb (ISTD) [No Gas]

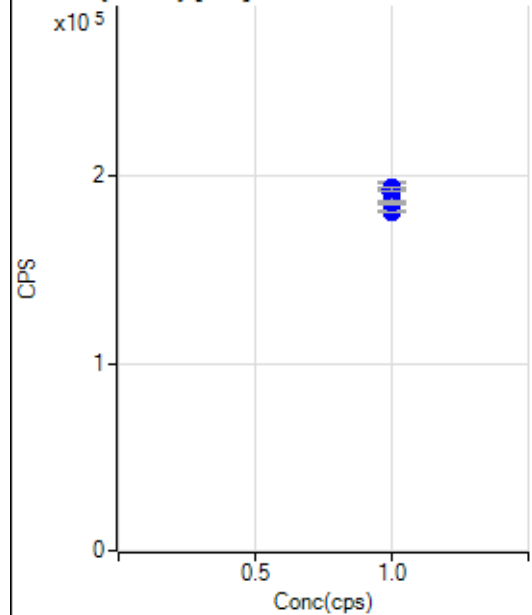
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		355033.29		P	0.8
2	☐	1.000		357355.00		P	0.1
3	☐	1.000		364870.58		P	1.4
4	☐	1.000		360098.47		P	0.7
5	☐	1.000		365563.11		P	1.4
6	☐	1.000		362819.91		P	1.3
7	☐	1.000		375071.38		P	2.7
8	☐	1.000		375029.56		P	4.2

159 Tb (ISTD) [He]

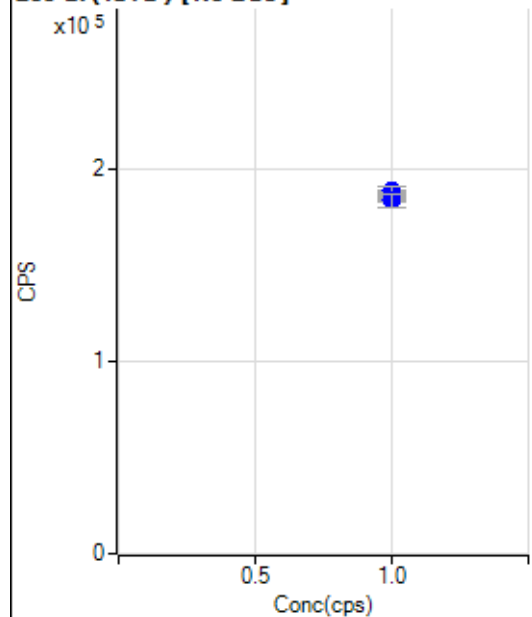
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		183073.69		P	1.4
2	☐	1.000		182838.97		P	0.7
3	☐	1.000		187394.62		P	1.1
4	☐	1.000		186339.36		P	0.2
5	☐	1.000		192719.43		P	4.2
6	☐	1.000		193142.94		P	5.0
7	☐	1.000		193501.36		P	0.9
8	☐	1.000		193021.96		P	1.0

165 Ho (ISTD) [No Gas]

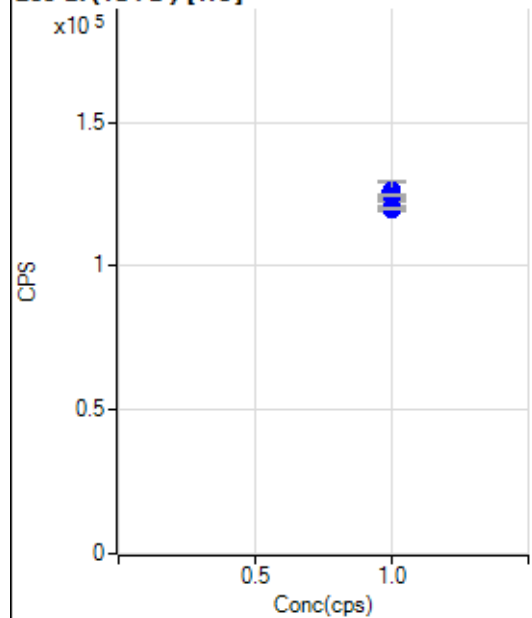
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t.	RSD
1	☐	1.000		334525.15		P	0.8
2	☐	1.000		336901.03		P	0.8
3	☐	1.000		343119.74		P	0.4
4	☐	1.000		340669.69		P	1.5
5	☐	1.000		342489.00		P	1.6
6	☐	1.000		338214.18		P	0.7
7	☐	1.000		354434.28		P	1.8
8	☐	1.000		355487.09		P	5.1

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t.	RSD
1	☐	1.000		181021.10		P	0.5
2	☐	1.000		181236.02		P	0.9
3	☐	1.000		185630.36		P	0.6
4	☐	1.000		185963.28		P	0.7
5	☐	1.000		191179.45		P	5.0
6	☐	1.000		192102.40		P	5.2
7	☐	1.000		193747.19		P	0.8
8	☐	1.000		192896.78		P	0.9

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		184295.35		P	0.7
2	☐	1.000		183832.77		P	0.5
3	☐	1.000		188834.75		P	0.9
4	☐	1.000		187266.36		P	0.9
5	☐	1.000		187322.17		P	1.7
6	☐	1.000		184036.37		P	0.8
7	☐	1.000		188948.34		P	2.7
8	☐	1.000		183878.47		P	4.0

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		119409.00		P	0.5
2	☐	1.000		121982.89		P	1.2
3	☐	1.000		124093.86		P	1.0
4	☐	1.000		123007.01		P	1.4
5	☐	1.000		125949.01		P	4.6
6	☐	1.000		126075.42		P	5.4
7	☐	1.000		124577.09		P	0.5
8	☐	1.000		120042.69		P	0.3

US EPA Tune Check Report

Operator Name Jaswal
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\P8091120 MS.b
Acq. Date-Time 2020-09-11 12:54:59
Report Comment ---
Instrument Name G8403A SG19224459

[No Gas]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
9		2286	22861.13			0.775	5.000
24		39668	396681.60			0.274	5.000
25		5129	51286.49			0.304	5.000
26		6061	60612.43			0.488	5.000
59		16185	161847.09			0.369	5.000
113		2344	23439.63			0.715	5.000
115		6860	68596.96			0.487	5.000
206		2231	22313.78			0.363	5.000
207		1840	18400.22			0.714	5.000
208		4554	45541.04			0.725	5.000
220		1	11.50			8.134	

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

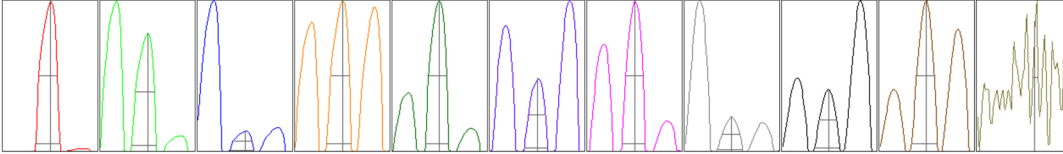
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	2310	2292	2288	2279	2262
24	39761	39690	39644	39753	39494
25	5152	5122	5135	5111	5123
26	6044	6094	6071	6019	6078
59	16165	16123	16230	16142	16263
113	2325	2330	2349	2348	2367
115	6819	6875	6902	6834	6868
206	2228	2244	2226	2225	2235
207	1829	1832	1831	1850	1858
208	4517	4526	4595	4577	4555

US EPA Tune Check Report

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

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	4258.34	9.05	8.90 - 9.10	
24	70587.72	24.05	23.90 - 24.10	
25	9349.01	25.05	24.90 - 25.10	
26	10901.50	26.05	25.90 - 26.10	
59	30201.77	59.00	58.90 - 59.10	
113	4607.65	113.05	112.90 - 113.10	
115	13393.04	115.05	114.90 - 115.10	
206	4195.77	206.00	205.90 - 206.10	
207	3483.88	207.00	206.90 - 207.10	
208	8554.33	208.00	207.90 - 208.10	
220	1.50	220.35	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.58	0.772	0.900	
24	0.59	0.782	0.900	
25	0.59	0.741	0.900	
26	0.59	0.780	0.900	
59	0.57	0.734	0.900	
113	0.53	0.731	0.900	
115	0.54	0.730	0.900	
206	0.55	0.797	0.900	
207	0.55	0.802	0.900	
208	0.55	0.819	0.900	
220	0.18			

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode HMI Nebulizer Gas 0.51 L/min Dilution Gas 0.46 L/min

US EPA Tune Check Report

RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.40 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	10.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	-6.0 V	Omega Lens	10.4 V	Deflect	14.0 V
Extract 2	-245.0 V	Cell Entrance	-30 V	Plate Bias	-50 V
Omega Bias	-115 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	4.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	---	OctP RF	170 V		

QP Parameters

Mass Gain	122	Axis Gain	0.9992	QP Bias	-4.0 V
Mass Offset	125	Axis Offset	0.01		

Hardware Settings

Torch

Torch H	0.7 mm	Torch V	-0.2 mm
---------	--------	---------	---------

EM

Discriminator	3.9 mV	Analog HV	2183 V	Pulse HV	1296 V
---------------	--------	-----------	--------	----------	--------

[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		4341	43406.34			1.378	
89		2707	27073.70			1.710	
205		6807	68065.39			2.031	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	4359	4252	4325	4417	4349
89	2725	2627	2713	2731	2741
205	6918	6575	6789	6895	6856

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	HMI	Nebulizer Gas	0.51 L/min	Dilution Gas	0.46 L/min
RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.40 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	10.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	-6.0 V	Omega Lens	10.4 V	Deflect	3.8 V
-----------	--------	------------	--------	---------	-------

US EPA Tune Check Report

Extract 2	-245.0 V	Cell Entrance	-50 V	Plate Bias	-60 V
Omega Bias	-115 V	Cell Exit	-70 V		
Cell Parameters					
Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	4.5 mL/min	OctP Bias	-18.0 V		
H2 Flow	---	OctP RF	200 V		
QP Parameters					
Mass Gain	122	Axis Gain	0.9992	QP Bias	-13.0 V
Mass Offset	125	Axis Offset	0.01		
Hardware Settings					
Torch					
Torch H	0.7 mm	Torch V	-0.2 mm		
EM					
Discriminator	3.9 mV	Analog HV	2183 V	Pulse HV	1296 V