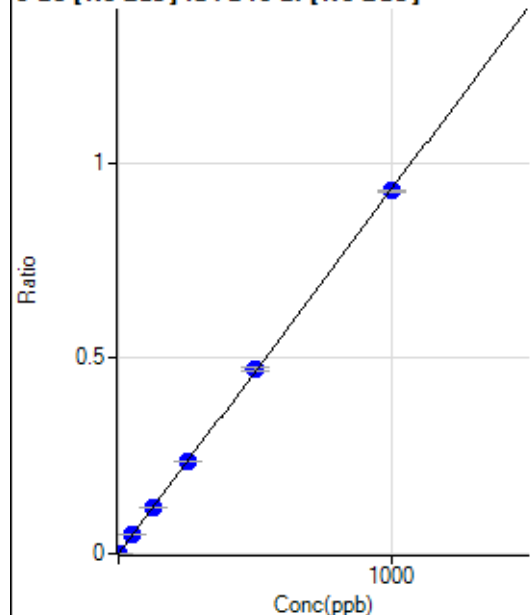


Calibration for 006CALB.d

Batch Folder: D:\Agilent\ICPMH\1\DATA\P8071920-MS1.b\
 Analysis File: P8071920-MS1.batch.bin
 DA Date-Time: 2020-07-20 09:48:22
 Calibration Title:
 Calibration Method: External Calibration
 VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	006CALB.d	S00	2020-07-19 22:12:43
2	008CALS.d	S02	2020-07-19 22:19:09
3	009CALS.d	S03	2020-07-19 22:22:26
4	010CALS.d	S04	2020-07-19 22:25:40
5	011CALS.d	S05	2020-07-19 22:28:51
6	012CALS.d	S06	2020-07-19 22:31:54
7	013CALS.d	S07	2020-07-19 22:34:55
8	014CALS.d	S08	2020-07-19 22:37:54

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	29.33	0.0001	P	37.6
2	☐	1.000	0.972	553.90	0.0010	P	5.5
3	☐	50.000	50.668	27986.91	0.0472	P	1.7
4	☐	125.000	126.419	71381.76	0.1178	P	0.9
5	☐	250.000	253.102	144461.48	0.2358	P	1.2
6	☐	500.000	506.296	292605.02	0.4716	P	1.4
7	☐	1000.000	995.866	590044.92	0.9275	P	0.5
8	☐			144.64	0.0002	P	12.4

$$y = 9.3133\text{E-}004 * x + 5.0433\text{E-}005$$

$$R = 1.0000$$

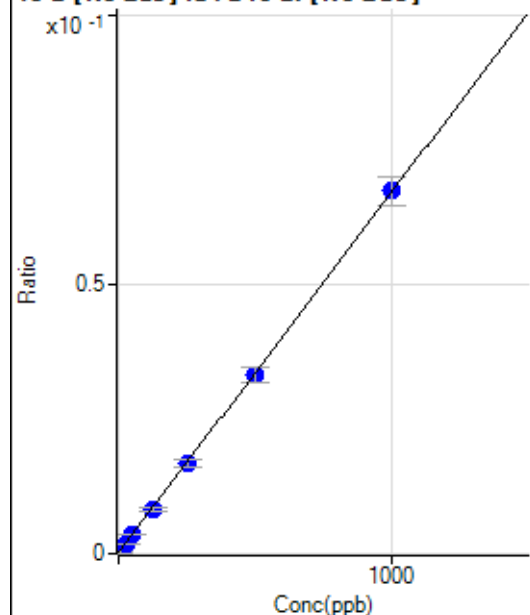
$$DL = 0.06108$$

$$BEC = 0.05415$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	111.31	0.0002	P	20.7
2	☐	25.000	24.055	1041.83	0.0018	P	8.3
3	☐	50.000	50.616	2117.74	0.0036	P	7.6
4	☐	125.000	117.388	4870.53	0.0080	P	8.8
5	☐	250.000	246.845	10232.90	0.0167	P	9.4
6	☐	500.000	494.452	20623.71	0.0332	P	9.3
7	☐	1000.000	1004.507	42866.51	0.0673	P	7.8
8	☐			6978.31	0.0108	P	10.6

$$y = 6.6851\text{E-}005 * x + 1.9125\text{E-}004$$

$$R = 0.9999$$

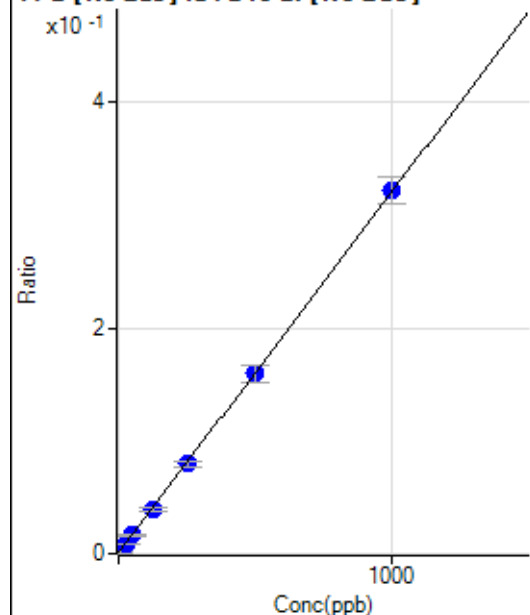
$$DL = 1.776$$

$$BEC = 2.861$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	497.25	0.0009	P	6.3
2	☐	25.000	23.842	4910.53	0.0085	P	7.1
3	☐	50.000	49.640	9912.07	0.0167	P	9.3
4	☐	125.000	121.841	24131.72	0.0398	P	8.6
5	☐	250.000	245.383	48634.62	0.0793	P	8.1
6	☐	500.000	496.413	99032.79	0.1596	P	9.3
7	☐	1000.000	1003.389	204839.45	0.3218	P	7.3
8	☐			33595.81	0.0521	P	8.8

$$y = 3.1987E-004 * x + 8.5488E-004$$

$$R = 1.0000$$

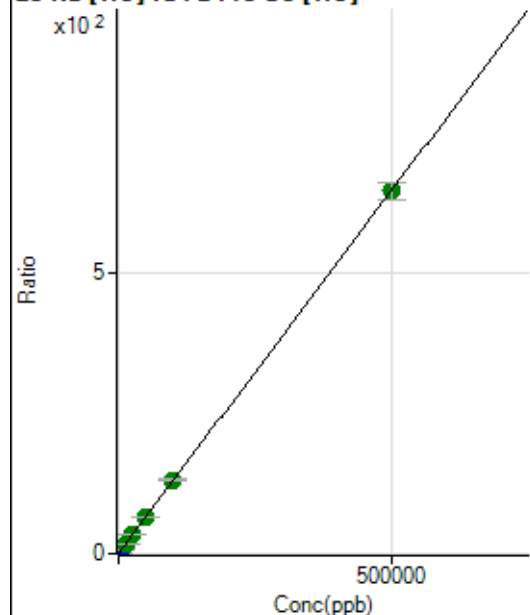
$$DL = 0.5039$$

$$BEC = 2.673$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	29101.83	0.3888	P	2.1
2	☐	500.000	466.074	74552.01	0.9897	P	1.3
3	☐	5000.000	5159.581	532185.22	7.0419	P	1.3
4	☐	12500.000	12964.745	1297043.71	17.1065	A	0.4
5	☐	25000.000	25623.849	2525621.80	33.4302	A	0.4
6	☐	50000.000	50251.144	5035657.45	65.1866	A	1.7
7	☐	100000.00	101697.83	10073521.06	131.5262	A	1.7
8	☐	500000.00	499590.94	48498052.12	644.6018	A	4.4

$$y = 0.0013 * x + 0.3888$$

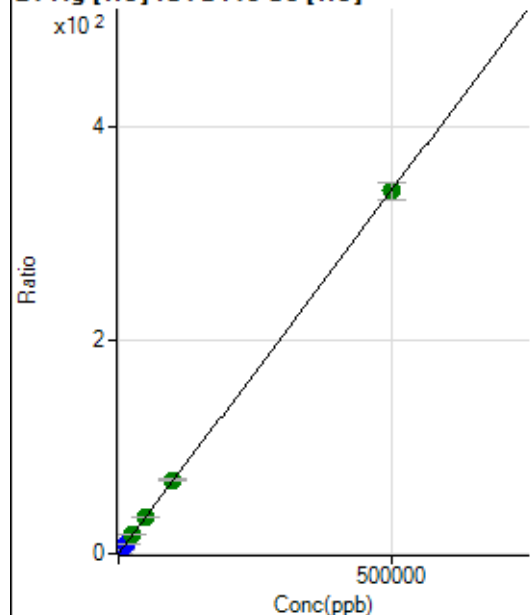
$$R = 1.0000$$

$$DL = 19.33$$

$$BEC = 301.5$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	330.57	0.0044	P	14.0
2	☐	500.000	464.616	24109.47	0.3201	P	0.9
3	☐	5000.000	5201.334	267383.42	3.5380	P	1.3
4	☐	12500.000	13104.081	675281.40	8.9069	P	1.4
5	☐	25000.000	26129.258	1341189.34	17.7557	A	2.0
6	☐	50000.000	50759.289	2663983.91	34.4886	A	2.5
7	☐	100000.00	101699.44	5292005.15	69.0956	A	1.4
8	☐	500000.00	499510.64	25531092.06	339.3550	A	4.6

$$y = 6.7937E-004 * x + 0.0044$$

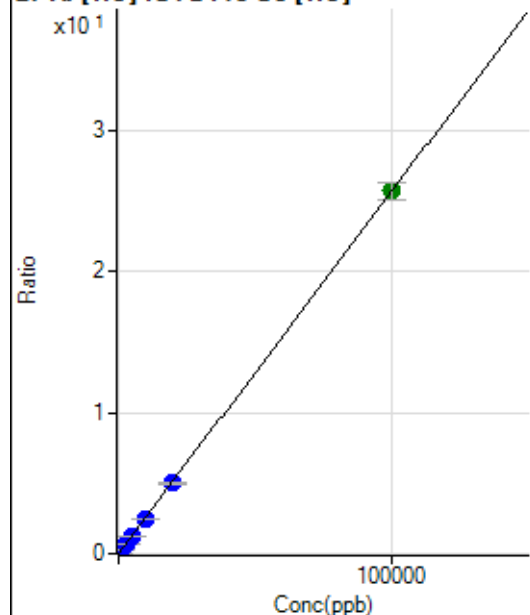
R = 1.0000

DL = 2.734

BEC = 6.492

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	476.58	0.0064	P	8.0
2	☐	20.000	19.985	865.86	0.0115	P	7.3
3	☐	1000.000	972.458	19352.35	0.2561	P	0.9
4	☐	2500.000	2439.606	47973.71	0.6328	P	1.2
5	☐	5000.000	4865.048	94835.63	1.2555	P	1.7
6	☐	10000.000	9575.604	190401.04	2.4650	P	2.8
7	☐	20000.000	19362.014	381253.33	4.9778	P	0.8
8	☐	100000.00	100178.57	1935670.09	25.7286	A	5.0

$$y = 2.5676E-004 * x + 0.0064$$

R = 1.0000

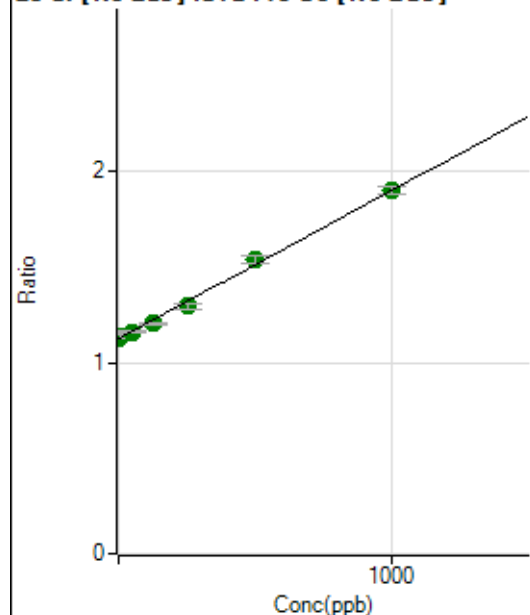
DL = 5.945

BEC = 24.8

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	2067366.71	1.1261	A	0.9
2	☐	10.000	16.943	2089583.75	1.1393	A	2.1
3	☐	50.000	41.374	2167189.89	1.1582	A	0.8
4	☐	125.000	102.436	2308939.16	1.2056	A	0.8
5	☐	250.000	218.698	2501429.70	1.2958	A	2.5
6	☐	500.000	528.769	2920499.52	1.5363	A	2.5
7	☐	1000.000	996.623	3735754.38	1.8992	A	2.0
8	☐			2565146.78	1.2790	A	4.8

$$y = 7.7569E-004 * x + 1.1261$$

R = 0.9986

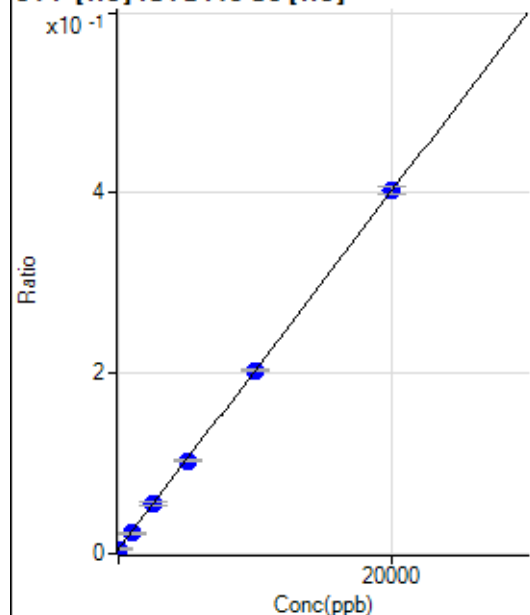
DL = 40.99

BEC = 1452

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	3.858	372.24	0.0050	P	9.1
2	☐	0.000	-3.858	363.90	0.0048	P	33.3
3	☐	1000.000	925.291	1758.49	0.0233	P	9.9
4	☐	2500.000	2540.155	4195.16	0.0553	P	6.6
5	☐	5000.000	4922.022	7746.70	0.1026	P	2.1
6	☐	10000.000	9994.906	15700.50	0.2032	P	1.6
7	☐	20000.000	20020.757	30802.76	0.4022	P	2.1
8	☐			322.24	0.0043	P	7.2

$$y = 1.9844E-005 * x + 0.0049$$

R = 1.0000

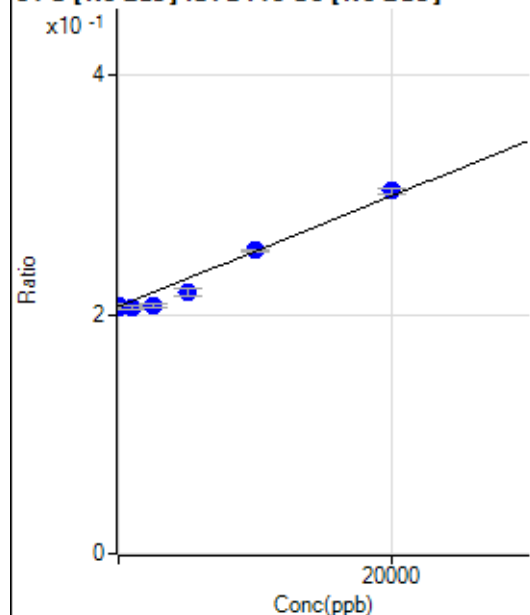
DL = 155.5

BEC = 246.8

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	-47.964	378904.50	0.2064	P	0.7
2	☐	0.000	47.964	379393.22	0.2068	P	1.6
3	☐	1000.000	-178.685	385049.16	0.2058	P	1.2
4	☐	2500.000	91.476	396506.09	0.2070	P	1.4
5	☐	5000.000	2694.193	422812.31	0.2190	P	3.1
6	☐	10000.000	10058.764	481093.19	0.2530	P	0.9
7	☐	20000.000	20907.070	596186.27	0.3031	P	1.7
8	☐			375885.76	0.1874	P	4.2

$$y = 4.6144\text{E-}006 * x + 0.2066$$

$$R = 0.9901$$

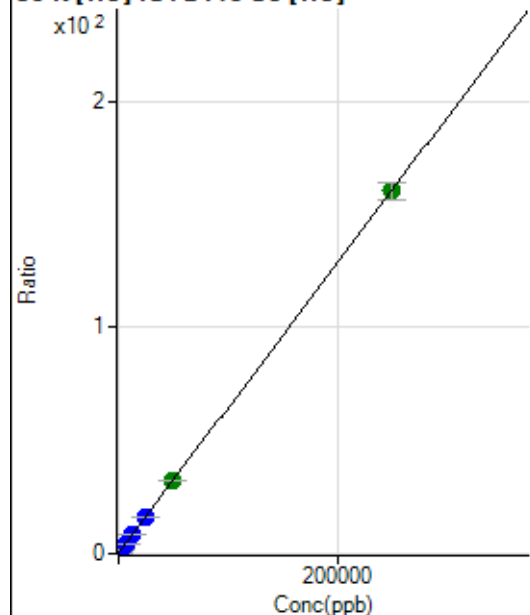
$$DL = 1593$$

$$BEC = 4.478\text{E}+04$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	24379.47	0.3256	P	1.3
2	☐	500.000	451.547	46330.63	0.6150	P	1.5
3	☐	2500.000	2569.423	149039.19	1.9721	P	1.7
4	☐	6250.000	6453.404	338208.66	4.4610	P	1.4
5	☐	12500.000	12789.307	643633.06	8.5212	P	1.6
6	☐	25000.000	25039.967	1264663.35	16.3715	P	2.0
7	☐	50000.000	49910.105	2474511.79	32.3086	A	0.9
8	☐	250000.00	249993.83	12076260.51	160.5244	A	4.8

$$y = 6.4081\text{E-}004 * x + 0.3256$$

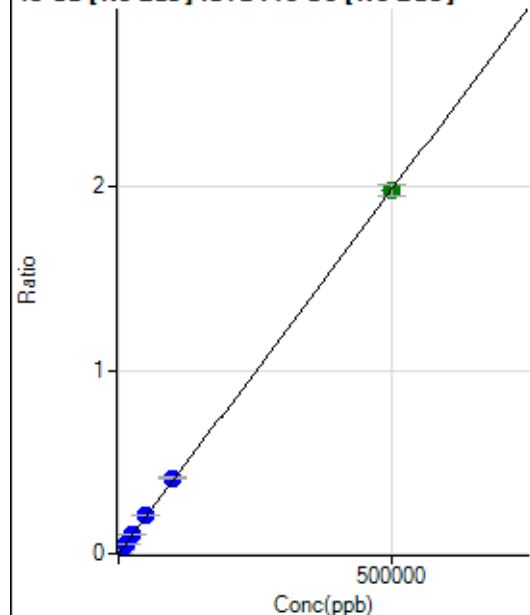
$$R = 1.0000$$

$$DL = 19.65$$

$$BEC = 508.2$$

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	519.47	0.0003	P	7.7
2	☐	500.000	491.019	4086.78	0.0022	P	7.5
3	☐	5000.000	5340.981	40145.60	0.0215	P	2.5
4	☐	12500.000	12966.730	98981.58	0.0517	P	1.7
5	☐	25000.000	26025.617	199728.07	0.1035	P	2.1
6	☐	50000.000	52811.262	398574.82	0.2096	P	1.1
7	☐	100000.00	103805.08	809949.52	0.4118	P	2.4
8	☐	500000.00	498891.50	3968634.94	1.9780	A	3.3

$$y = 3.9642\text{E-}006 * x + 2.8293\text{E-}004$$

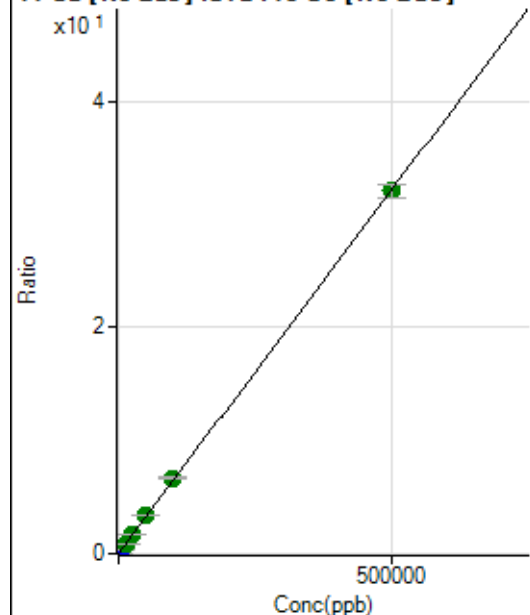
$$R = 1.0000$$

$$DL = 16.44$$

$$BEC = 71.37$$

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	36315.93	0.0198	P	1.7
2	☐	500.000	492.181	94303.08	0.0514	P	1.9
3	☐	5000.000	5427.210	689644.46	0.3686	P	0.9
4	☐	12500.000	13085.619	1648616.44	0.8608	A	0.4
5	☐	25000.000	26368.484	3310411.29	1.7145	A	1.8
6	☐	50000.000	52889.809	6500326.58	3.4190	A	1.2
7	☐	100000.00	103183.50	13082578.07	6.6513	A	2.1
8	☐	500000.00	498986.98	64373030.61	32.0892	A	3.9

$$y = 6.4269\text{E-}005 * x + 0.0198$$

$$R = 1.0000$$

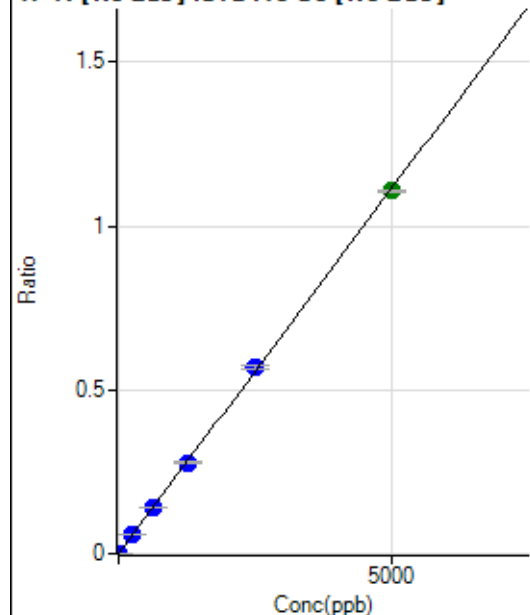
$$DL = 15.86$$

$$BEC = 307.8$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	594.47	0.0003	P	13.1
2	☐	5.000	4.755	2536.42	0.0014	P	3.0
3	☐	250.000	255.425	107081.74	0.0572	P	0.8
4	☐	625.000	625.924	267679.01	0.1398	P	1.4
5	☐	1250.000	1245.249	536190.81	0.2778	P	2.5
6	☐	2500.000	2561.352	1085466.08	0.5710	P	2.2
7	☐	5000.000	4970.126	2179090.95	1.1076	A	0.4
8	☐			733.38	0.0004	P	6.6

$$y = 2.2279E-004 * x + 3.2369E-004$$

$$R = 0.9999$$

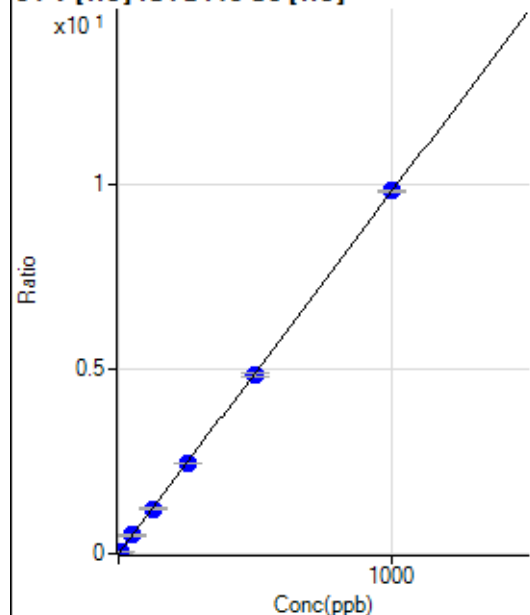
$$DL = 0.57$$

$$BEC = 1.453$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	23.33	0.0003	P	15.2
2	☐	5.000	4.550	3373.77	0.0448	P	4.4
3	☐	50.000	50.608	37396.63	0.4948	P	1.1
4	☐	125.000	124.616	92344.66	1.2180	P	1.0
5	☐	250.000	249.839	184425.65	2.4416	P	1.6
6	☐	500.000	493.947	372847.21	4.8269	P	2.5
7	☐	1000.000	1003.087	750736.84	9.8020	P	0.3
8	☐			218.89	0.0029	P	5.3

$$y = 0.0098 * x + 3.1197E-004$$

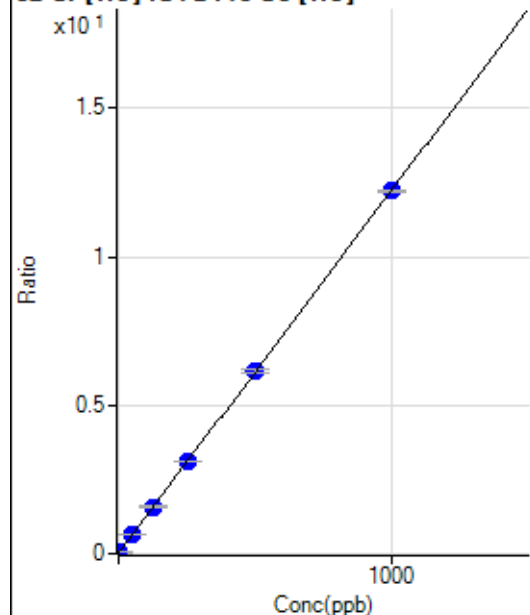
$$R = 1.0000$$

$$DL = 0.01458$$

$$BEC = 0.03193$$

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	1416.75	0.0189	P	2.0
2	☐	2.000	1.901	3175.94	0.0422	P	1.1
3	☐	50.000	51.029	48552.09	0.6424	P	1.2
4	☐	125.000	128.077	120081.90	1.5839	P	1.1
5	☐	250.000	253.232	235153.46	3.1131	P	1.5
6	☐	500.000	500.108	473496.04	6.1296	P	2.0
7	☐	1000.000	998.702	936070.35	12.2218	P	0.8
8	☐			2911.44	0.0387	P	1.7

$$y = 0.0122 * x + 0.0189$$

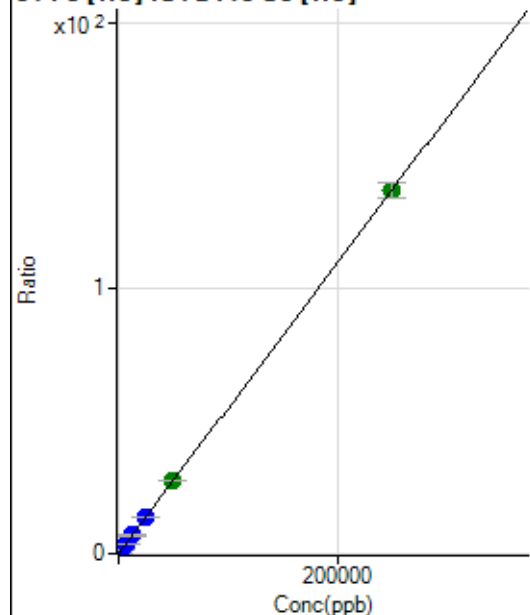
$$R = 1.0000$$

$$DL = 0.09268$$

$$BEC = 1.549$$

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	409.27	0.0055	P	13.9
2	☐	50.000	49.482	2453.96	0.0326	P	2.3
3	☐	2500.000	2530.656	105169.38	1.3916	P	1.4
4	☐	6250.000	6363.972	264690.12	3.4913	P	1.2
5	☐	12500.000	12651.705	523856.78	6.9353	P	1.6
6	☐	25000.000	24890.246	1053462.81	13.6388	P	2.8
7	☐	50000.000	50189.029	2105928.88	27.4959	A	0.8
8	☐	250000.00	249962.42	10302059.61	136.9193	A	4.2

$$y = 5.4774E-004 * x + 0.0055$$

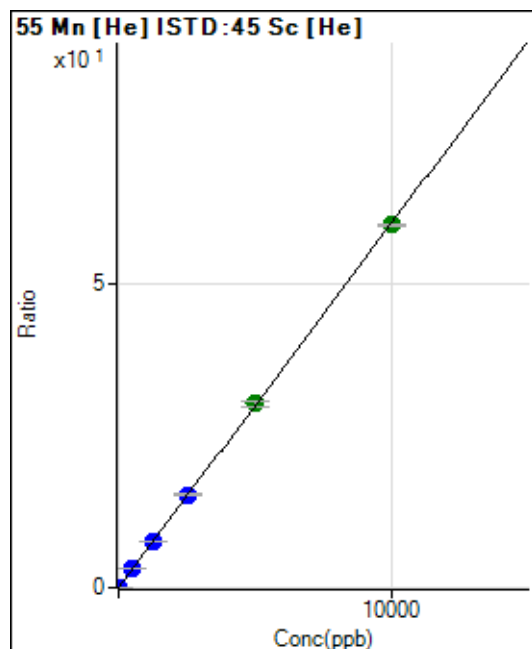
$$R = 1.0000$$

$$DL = 4.17$$

$$BEC = 9.979$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	93.33	0.0012	P	13.3
2	☐	1.000	0.862	483.35	0.0064	P	8.2
3	☐	500.000	512.829	232382.46	3.0748	P	0.9
4	☐	1250.000	1280.637	582004.82	7.6765	P	1.1
5	☐	2500.000	2558.472	1158213.36	15.3350	P	2.2
6	☐	5000.000	5053.868	2339554.20	30.2908	A	3.2
7	☐	10000.000	9953.977	4569280.59	59.6587	A	0.6
8	☐			3155.94	0.0420	P	8.3

$$y = 0.0060 * x + 0.0012$$

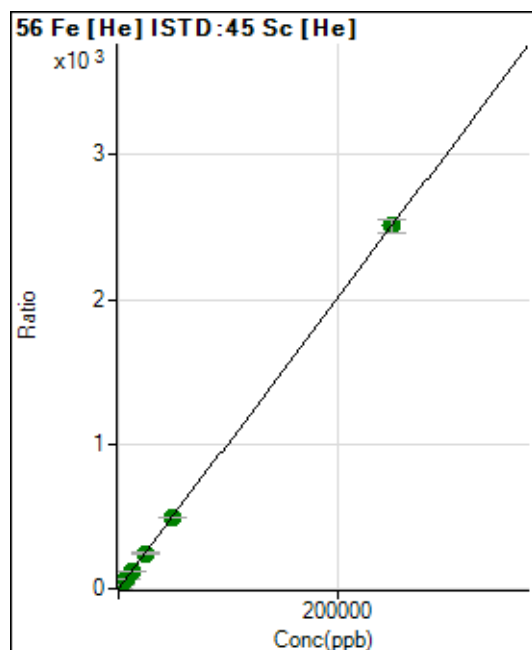
$$R = 1.0000$$

$$DL = 0.0827$$

$$BEC = 0.2078$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	3504.20	0.0468	P	5.0
2	☐	50.000	46.452	38589.29	0.5124	P	2.8
3	☐	2500.000	2517.298	1910331.73	25.2766	A	0.3
4	☐	6250.000	6216.198	4726906.82	62.3491	A	1.4
5	☐	12500.000	12402.114	9391746.51	124.3480	A	2.2
6	☐	25000.000	24421.527	18910750.42	244.8135	A	2.3
7	☐	50000.000	48966.173	37591576.30	490.8141	A	0.5
8	☐	250000.00	250270.18	188747254.2	2508.398	A	4.0

$$y = 0.0100 * x + 0.0468$$

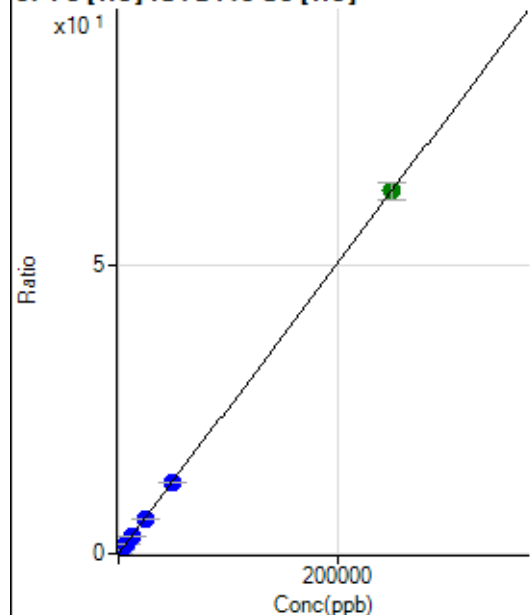
$$R = 1.0000$$

$$DL = 0.7054$$

$$BEC = 4.672$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	194.45	0.0026	P	24.3
2	☐	50.000	43.701	1020.43	0.0136	P	6.2
3	☐	2500.000	2524.165	47995.51	0.6351	P	1.3
4	☐	6250.000	6230.715	118558.79	1.5638	P	1.3
5	☐	12500.000	12370.994	234356.84	3.1023	P	1.1
6	☐	25000.000	24247.631	469577.60	6.0782	P	1.2
7	☐	50000.000	48832.094	937321.97	12.2382	P	1.2
8	☐	250000.00	250315.51	4718711.05	62.7229	A	4.8

$$y = 2.5056E-004 * x + 0.0026$$

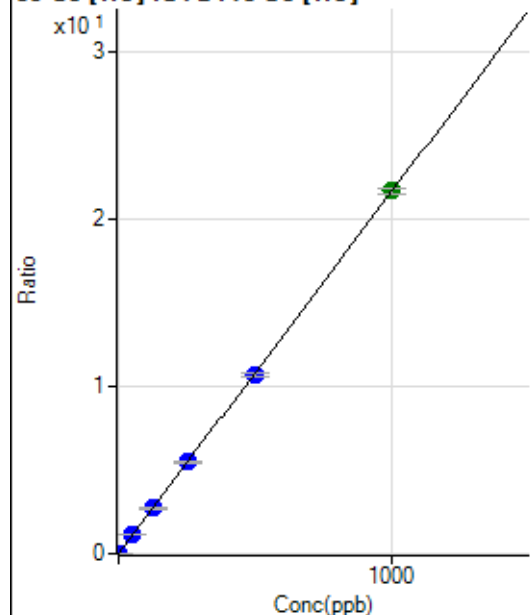
$$R = 1.0000$$

$$DL = 7.564$$

$$BEC = 10.39$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	45.56	0.0006	P	23.0
2	☐	1.000	0.918	1541.21	0.0204	P	5.1
3	☐	50.000	50.668	82802.30	1.0956	P	0.3
4	☐	125.000	126.129	206691.15	2.7264	P	2.1
5	☐	250.000	252.443	412112.53	5.4562	P	2.0
6	☐	500.000	493.112	823281.38	10.6573	P	1.7
7	☐	1000.000	1002.659	1659639.94	21.6692	A	1.5
8	☐			2438.01	0.0324	P	10.8

$$y = 0.0216 * x + 6.0921E-004$$

$$R = 1.0000$$

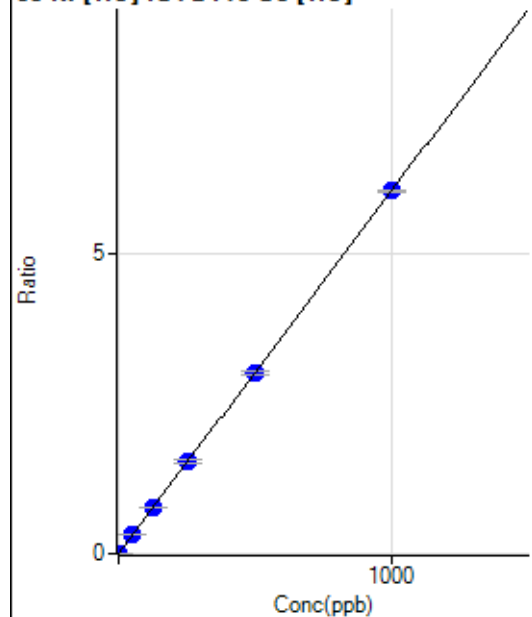
$$DL = 0.01947$$

$$BEC = 0.02819$$

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	150.00	0.0020	P	7.6
2	☐	1.000	0.981	597.80	0.0079	P	3.8
3	☐	50.000	50.731	23332.53	0.3087	P	1.8
4	☐	125.000	127.019	58376.94	0.7700	P	1.9
5	☐	250.000	253.975	116129.53	1.5376	P	2.4
6	☐	500.000	497.635	232570.03	3.0109	P	2.7
7	☐	1000.000	999.900	463203.95	6.0478	P	0.7
8	☐			925.59	0.0123	P	6.3

$$y = 0.0060 * x + 0.0020$$

$$R = 1.0000$$

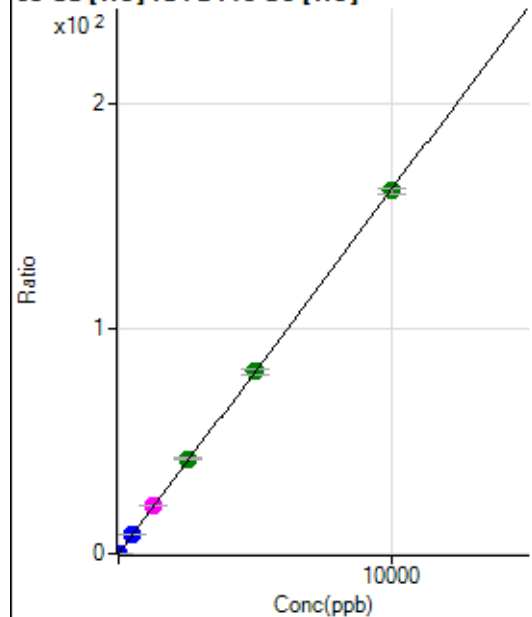
$$DL = 0.07546$$

$$BEC = 0.3313$$

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	2017.94	0.0270	P	3.4
2	☐	2.000	1.851	4288.47	0.0569	P	1.2
3	☐	500.000	520.167	638416.20	8.4475	P	0.9
4	☐	1250.000	1298.217	1595444.28	21.0427	M	0.7
5	☐	2500.000	2605.014	3186695.40	42.1973	A	2.9
6	☐	5000.000	5003.753	6258876.85	81.0284	A	2.7
7	☐	10000.000	9964.835	12356865.51	161.3391	A	1.9
8	☐			5959.09	0.0793	P	8.3

$$y = 0.0162 * x + 0.0270$$

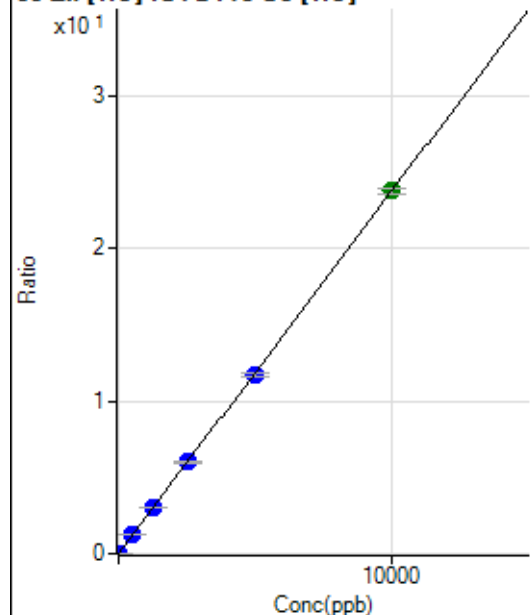
$$R = 0.9999$$

$$DL = 0.1691$$

$$BEC = 1.665$$

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	103.34	0.0014	P	7.9
2	☐	2.000	1.882	441.12	0.0058	P	18.3
3	☐	500.000	506.095	90886.70	1.2026	P	0.6
4	☐	1250.000	1267.279	228157.45	3.0093	P	0.7
5	☐	2500.000	2536.482	454811.32	6.0217	P	2.0
6	☐	5000.000	4949.912	907597.65	11.7500	P	2.5
7	☐	10000.000	10013.459	1820393.66	23.7682	A	1.9
8	☐			5089.85	0.0676	P	3.8

$$y = 0.0024 * x + 0.0014$$

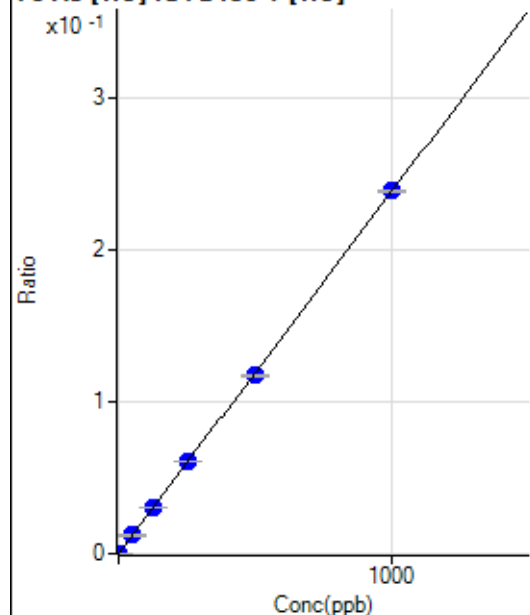
$$R = 1.0000$$

$$DL = 0.1386$$

$$BEC = 0.5819$$

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	6.33	0.0000	P	77.2
2	☐	1.000	0.886	127.34	0.0002	P	2.1
3	☐	50.000	50.836	6925.73	0.0121	P	3.1
4	☐	125.000	125.688	17422.78	0.0299	P	1.1
5	☐	250.000	254.397	34881.63	0.0605	P	1.2
6	☐	500.000	492.737	70243.07	0.1172	P	1.5
7	☐	1000.000	1002.405	140166.43	0.2385	P	0.4
8	☐			62.34	0.0001	P	14.4

$$y = 2.3788E-004 * x + 1.1109E-005$$

$$R = 1.0000$$

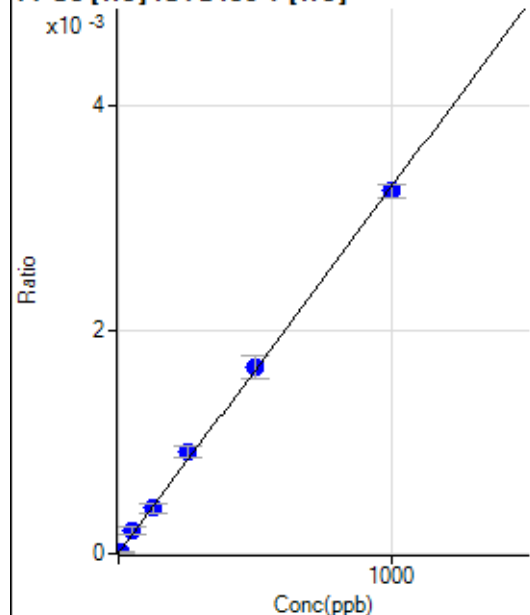
$$DL = 0.1082$$

$$BEC = 0.0467$$

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	2.22	0.0000	P	86.6
2	☐	5.000	1.758	5.55	0.0000	P	125.0
3	☐	50.000	61.493	117.78	0.0002	P	36.9
4	☐	125.000	122.599	236.67	0.0004	P	20.2
5	☐	250.000	277.194	525.57	0.0009	P	12.4
6	☐	500.000	508.491	1000.04	0.0017	P	11.7
7	☐	1000.000	988.698	1906.81	0.0032	P	3.6
8	☐			2.22	0.0000	P	173.2

$$y = 3.2775\text{E-}006 * x + 3.9085\text{E-}006$$

$$R = 0.9994$$

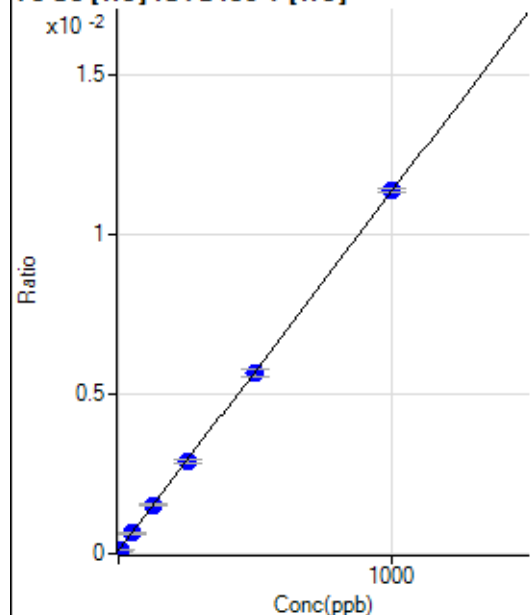
$$DL = 3.099$$

$$BEC = 1.193$$

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	53.67	0.0001	P	17.9
2	☐	5.000	1.508	64.01	0.0001	P	10.7
3	☐	50.000	49.234	371.04	0.0006	P	5.6
4	☐	125.000	126.081	881.12	0.0015	P	3.3
5	☐	250.000	250.371	1677.61	0.0029	P	3.4
6	☐	500.000	495.247	3394.76	0.0057	P	3.9
7	☐	1000.000	1002.204	6683.26	0.0114	P	1.2
8	☐			52.34	0.0001	P	17.6

$$y = 1.1251\text{E-}005 * x + 9.4537\text{E-}005$$

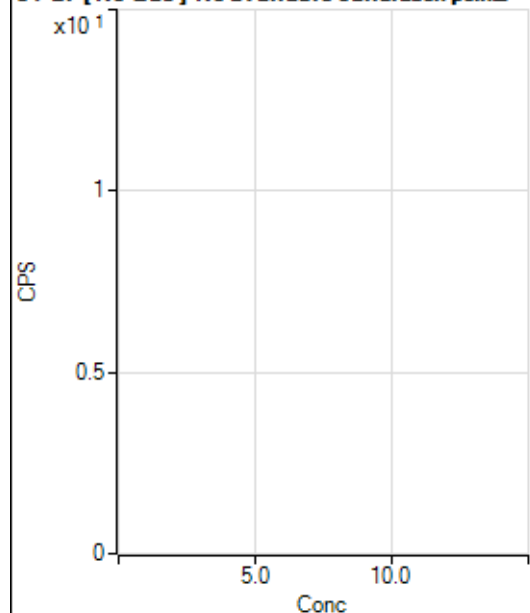
$$R = 1.0000$$

$$DL = 4.523$$

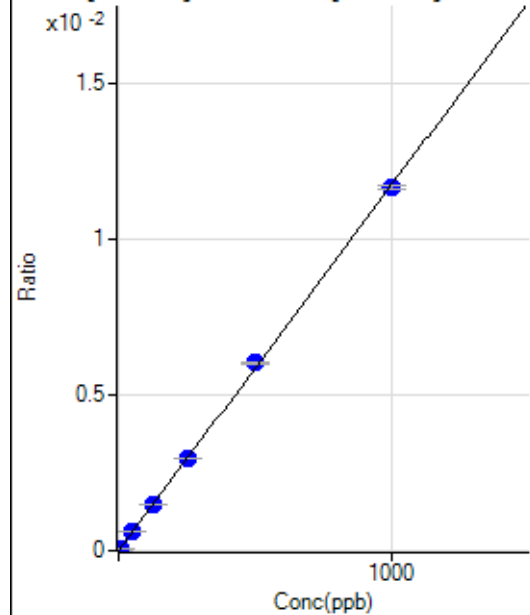
$$BEC = 8.403$$

Weight: <None>

Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2342.62		P	10.1
2	☐			2205.78		P	6.6
3	☐			2452.75		P	4.1
4	☐			3050.16		P	2.8
5	☐			2739.76		P	3.4
6	☐			2225.80		P	3.2
7	☐			2349.29		P	3.6
8	☐			2599.60		P	7.5

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	-0.99	0.0000	P	-941.
2	☐	5.000	4.908	236.84	0.0001	P	10.4
3	☐	50.000	52.175	2540.96	0.0006	P	2.3
4	☐	125.000	127.887	6352.92	0.0015	P	0.6
5	☐	250.000	252.751	12590.88	0.0030	P	0.2
6	☐	500.000	512.896	25248.88	0.0060	P	0.8
7	☐	1000.000	992.395	51245.51	0.0116	P	1.1
8	☐			-20.17	0.0000	P	-59.1

$$y = 1.1720E-005 * x - 2.6668E-007$$

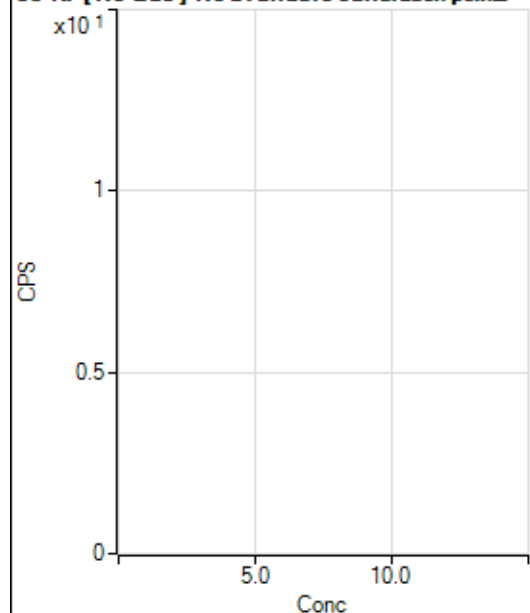
$$R = 0.9999$$

$$DL = 0.6425$$

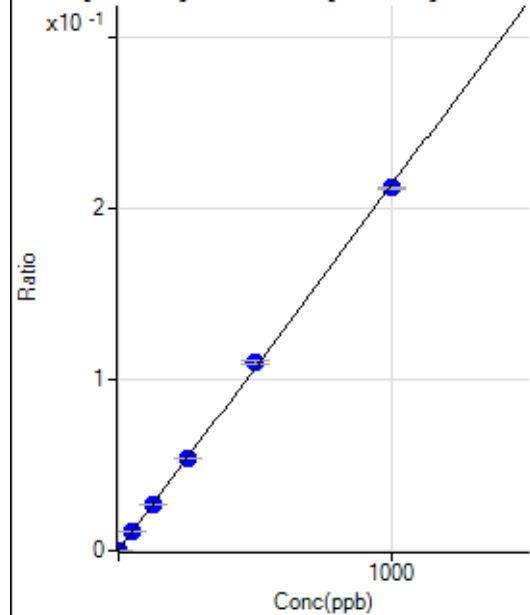
$$BEC = -0.02275$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			324.45		P	4.9
2	☐			350.01		P	1.0
3	☐			340.01		P	4.3
4	☐			332.23		P	16.2
5	☐			342.23		P	14.9
6	☐			367.79		P	3.4
7	☐			331.12		P	3.5
8	☐			377.79		P	6.4

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	486.14	0.0001	P	17.6
2	☐	1.000	0.922	1308.43	0.0003	P	2.2
3	☐	50.000	51.018	45875.83	0.0110	P	0.9
4	☐	125.000	125.411	114256.51	0.0270	P	1.5
5	☐	250.000	250.902	228691.50	0.0538	P	0.9
6	☐	500.000	515.331	463599.71	0.1104	P	1.4
7	☐	1000.000	992.007	935691.76	0.2124	P	0.8
8	☐			5756.90	0.0013	P	5.9

$$y = 2.1396E-004 * x + 1.1946E-004$$

$$R = 0.9998$$

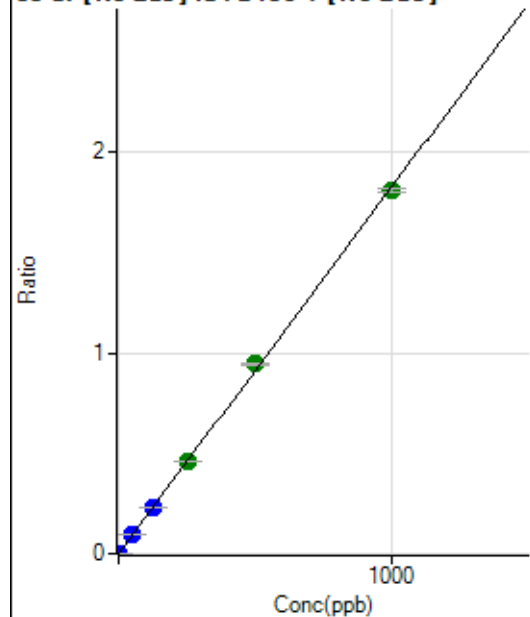
$$DL = 0.2953$$

$$BEC = 0.5583$$

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	83.33	0.0000	P	36.2
2	☐	1.000	0.944	7207.61	0.0017	P	4.0
3	☐	50.000	51.476	391021.37	0.0941	P	0.7
4	☐	125.000	127.500	987428.96	0.2329	P	1.3
5	☐	250.000	252.493	1960708.05	0.4613	A	0.7
6	☐	500.000	517.806	3973128.43	0.9459	A	1.4
7	☐	1000.000	990.088	7968920.66	1.8087	A	1.0
8	☐			44145.56	0.0100	P	2.5

$$y = 0.0018 * x + 2.0503E-005$$

$$R = 0.9998$$

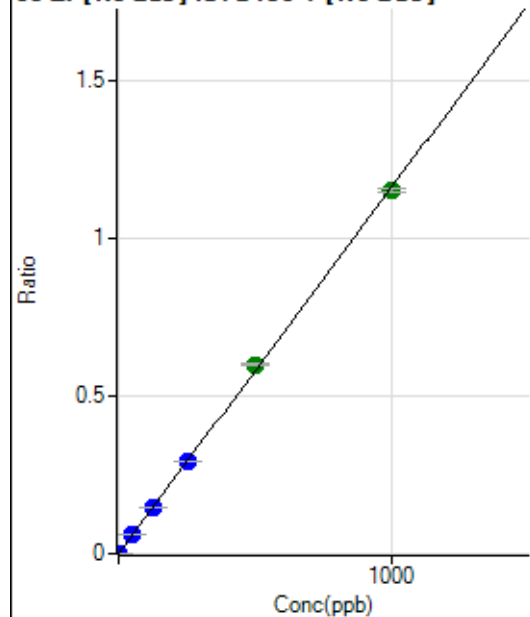
$$DL = 0.01217$$

$$BEC = 0.01122$$

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	194.45	0.0000	P	8.5
2	☐	1.000	0.944	4714.81	0.0011	P	5.6
3	☐	50.000	50.804	244933.10	0.0589	P	0.3
4	☐	125.000	125.513	616705.56	0.1455	P	1.3
5	☐	250.000	252.581	1244234.27	0.2927	P	0.6
6	☐	500.000	516.844	2516088.99	0.5989	A	1.7
7	☐	1000.000	990.828	5058505.32	1.1481	A	0.9
8	☐			1427.89	0.0003	P	9.8

$$y = 0.0012 * x + 4.7817E-005$$

$$R = 0.9998$$

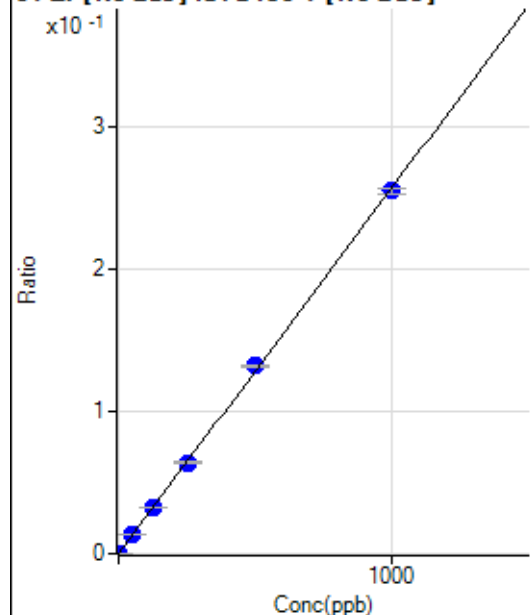
$$DL = 0.0105$$

$$BEC = 0.04127$$

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	50.00	0.0000	P	17.3
2	☐	1.000	0.955	1061.18	0.0003	P	5.2
3	☐	50.000	50.728	54080.63	0.0130	P	2.4
4	☐	125.000	125.209	136044.14	0.0321	P	1.7
5	☐	250.000	249.075	271316.39	0.0638	P	1.0
6	☐	500.000	513.899	553089.48	0.1317	P	1.3
7	☐	1000.000	993.219	1121268.31	0.2545	P	1.4
8	☐			338.90	0.0001	P	10.9

$$y = 2.5622\text{E-}004 * x + 1.2313\text{E-}005$$

$$R = 0.9999$$

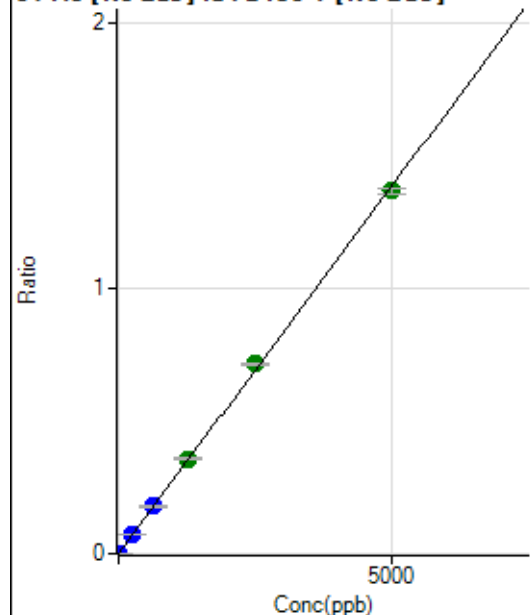
$$DL = 0.02497$$

$$BEC = 0.04806$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	75.00	0.0000	P	30.7
2	☐	5.000	4.725	5473.45	0.0013	P	5.1
3	☐	250.000	261.115	300394.31	0.0723	P	1.0
4	☐	625.000	646.375	758086.36	0.1788	P	1.7
5	☐	1250.000	1292.389	1519846.95	0.3576	A	0.7
6	☐	2500.000	2591.329	3011322.72	0.7169	A	0.9
7	☐	5000.000	4940.511	6022140.41	1.3668	A	1.6
8	☐			1619.58	0.0004	P	7.0

$$y = 2.7665\text{E-}004 * x + 1.8505\text{E-}005$$

$$R = 0.9997$$

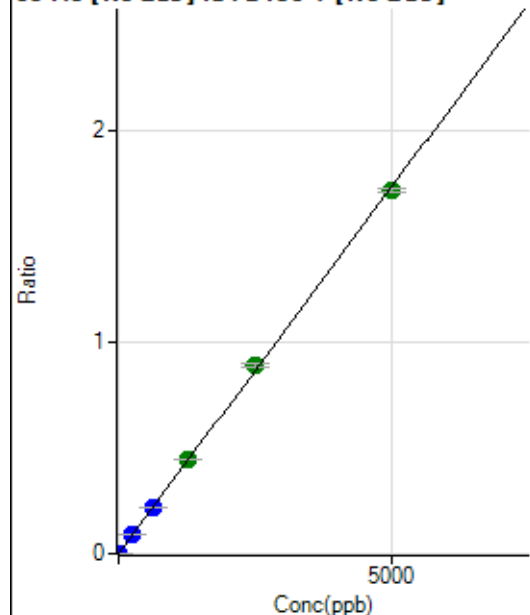
$$DL = 0.0616$$

$$BEC = 0.06689$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	16.67	0.0000	P	50.0
2	☐	5.000	4.564	6562.84	0.0016	P	1.6
3	☐	250.000	257.290	371441.77	0.0893	P	0.3
4	☐	625.000	635.891	936005.35	0.2208	P	1.8
5	☐	1250.000	1285.511	1897414.10	0.4464	A	0.8
6	☐	2500.000	2580.894	3763983.55	0.8962	A	2.0
7	☐	5000.000	4948.950	7571767.18	1.7185	A	1.2
8	☐			1852.96	0.0004	P	6.8

$$y = 3.4724\text{E-}004 * x + 4.0955\text{E-}006$$

$$R = 0.9998$$

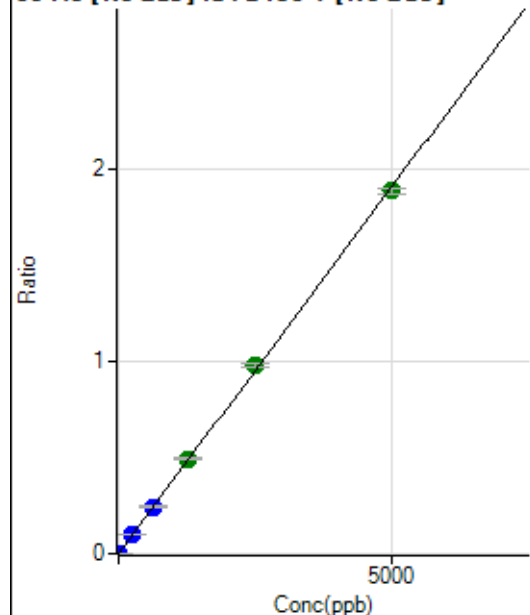
$$DL = 0.0177$$

$$BEC = 0.01179$$

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	86.11	0.0000	P	22.7
2	☐	5.000	4.633	7388.30	0.0018	P	2.4
3	☐	250.000	257.654	408737.89	0.0983	P	0.6
4	☐	625.000	641.149	1037005.73	0.2446	P	1.2
5	☐	1250.000	1294.040	2098576.41	0.4937	A	1.1
6	☐	2500.000	2573.228	4123544.36	0.9817	A	1.4
7	☐	5000.000	4949.975	8320680.57	1.8885	A	1.6
8	☐			2614.21	0.0006	P	4.8

$$y = 3.8150\text{E-}004 * x + 2.1203\text{E-}005$$

$$R = 0.9998$$

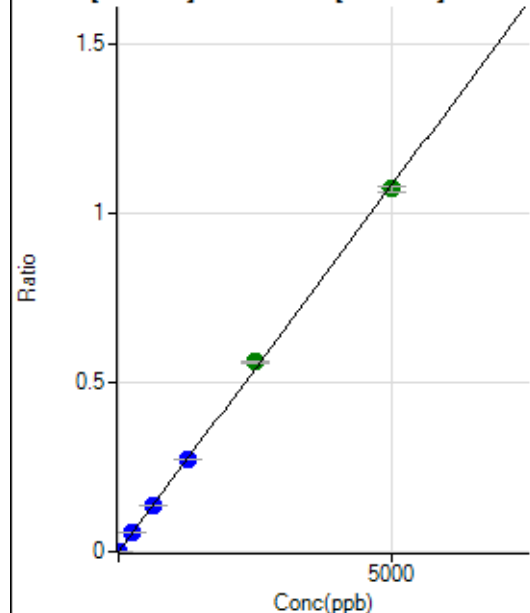
$$DL = 0.0378$$

$$BEC = 0.05558$$

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	13.89	0.0000	P	34.5
2	☐	5.000	4.578	4109.06	0.0010	P	1.6
3	☐	250.000	252.940	227736.47	0.0548	P	0.4
4	☐	625.000	621.098	570195.43	0.1345	P	0.7
5	☐	1250.000	1260.385	1160169.75	0.2729	P	0.4
6	☐	2500.000	2590.634	2356530.81	0.5610	A	1.2
7	☐	5000.000	4952.428	4725307.74	1.0724	A	1.3
8	☐			1066.74	0.0002	P	9.8

$$y = 2.1655E-004 * x + 3.4166E-006$$

$$R = 0.9997$$

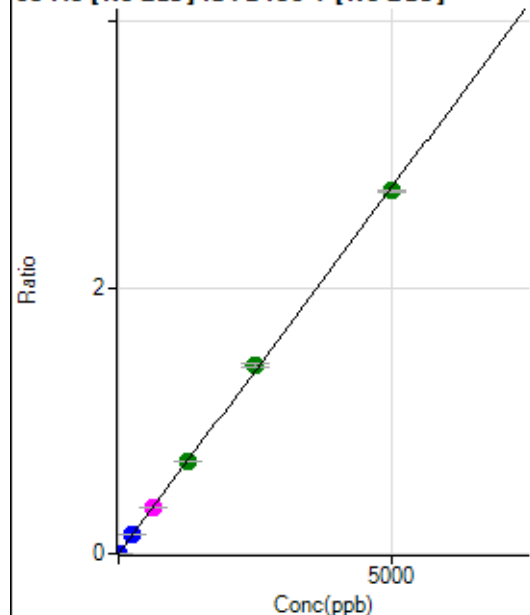
$$DL = 0.01634$$

$$BEC = 0.01578$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	22.22	0.0000	P	94.9
2	☐	5.000	4.840	11010.22	0.0027	P	4.1
3	☐	250.000	254.876	582527.15	0.1401	P	1.4
4	☐	625.000	626.801	1460772.98	0.3446	M	0.6
5	☐	1250.000	1254.567	2931694.38	0.6897	A	0.3
6	☐	2500.000	2584.584	5968262.37	1.4209	A	1.9
7	☐	5000.000	4956.098	12004553.13	2.7246	A	0.3
8	☐			2830.93	0.0006	P	4.0

$$y = 5.4975E-004 * x + 5.4478E-006$$

$$R = 0.9998$$

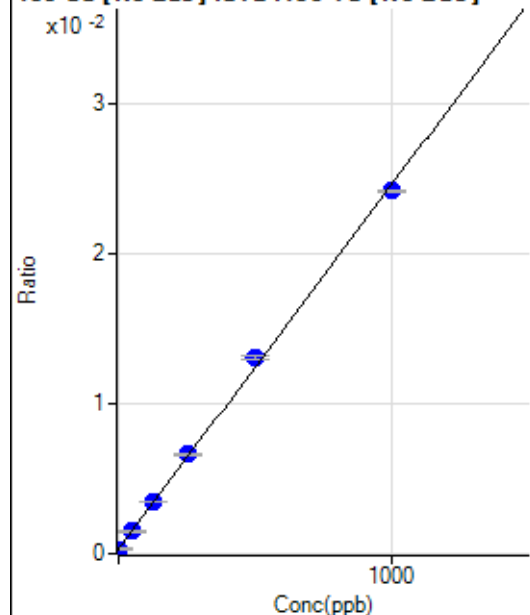
$$DL = 0.02822$$

$$BEC = 0.00991$$

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	852.82	0.0003	P	9.3
2	☐	1.000	0.233	861.17	0.0003	P	7.7
3	☐	50.000	48.774	4217.42	0.0015	P	3.8
4	☐	125.000	129.882	9826.00	0.0035	P	2.0
5	☐	250.000	260.732	19138.71	0.0066	P	1.4
6	☐	500.000	526.322	38195.25	0.0131	P	1.6
7	☐	1000.000	983.608	73171.96	0.0242	P	0.2
8	☐			972.29	0.0003	P	8.7

$$y = 2.4294\text{E-}005 * x + 3.0955\text{E-}004$$

$$R = 0.9994$$

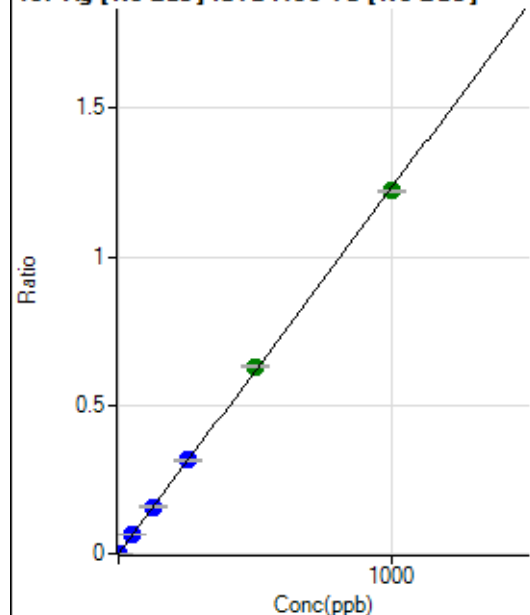
$$DL = 3.537$$

$$BEC = 12.74$$

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	22.22	0.0000	P	21.1
2	☐	1.000	0.979	3317.16	0.0012	P	1.8
3	☐	50.000	51.409	178851.79	0.0634	P	0.4
4	☐	125.000	128.782	450142.84	0.1587	P	0.4
5	☐	250.000	255.787	907893.20	0.3152	P	1.1
6	☐	500.000	512.081	1840304.36	0.6311	A	0.8
7	☐	1000.000	991.969	3695414.32	1.2224	A	0.4
8	☐			927.83	0.0003	P	4.7

$$y = 0.0012 * x + 8.0561\text{E-}006$$

$$R = 0.9999$$

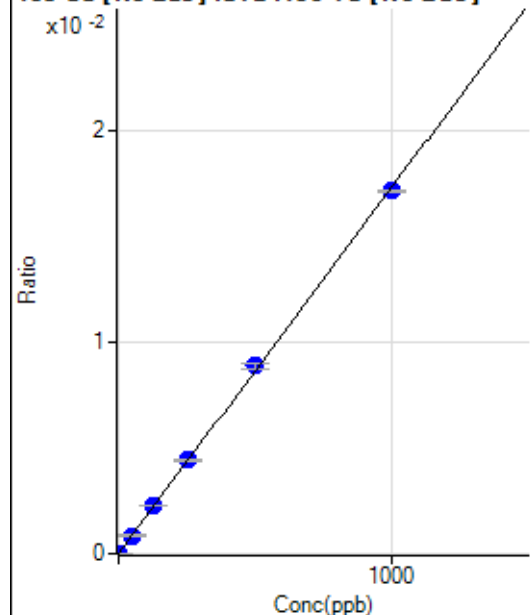
$$DL = 0.004129$$

$$BEC = 0.006537$$

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	9.72	0.0000	P	25.5
2	☐	1.000	1.089	61.11	0.0000	P	20.9
3	☐	50.000	49.659	2434.97	0.0009	P	4.0
4	☐	125.000	130.202	6400.17	0.0023	P	0.5
5	☐	250.000	255.297	12733.76	0.0044	P	2.4
6	☐	500.000	513.362	25911.95	0.0089	P	2.7
7	☐	1000.000	991.362	51863.64	0.0172	P	0.5
8	☐			69.45	0.0000	P	15.9

$$y = 1.7303\text{E-}005 * x + 3.5312\text{E-}006$$

$$R = 0.9998$$

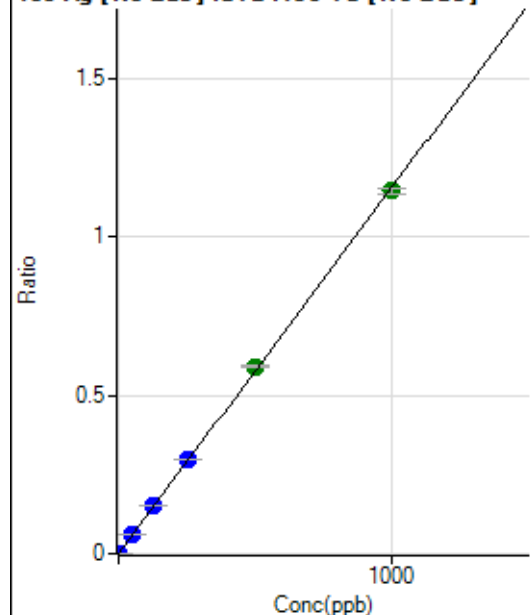
$$DL = 0.1564$$

$$BEC = 0.2041$$

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	16.67	0.0000	P	100.3
2	☐	1.000	0.967	3061.54	0.0011	P	3.5
3	☐	50.000	52.001	169240.49	0.0600	P	0.9
4	☐	125.000	130.305	426091.56	0.1502	P	1.2
5	☐	250.000	257.466	854998.12	0.2968	P	0.7
6	☐	500.000	510.925	1717847.57	0.5891	A	0.9
7	☐	1000.000	991.908	3456905.76	1.1436	A	1.8
8	☐			777.82	0.0003	P	12.1

$$y = 0.0012 * x + 6.0751\text{E-}006$$

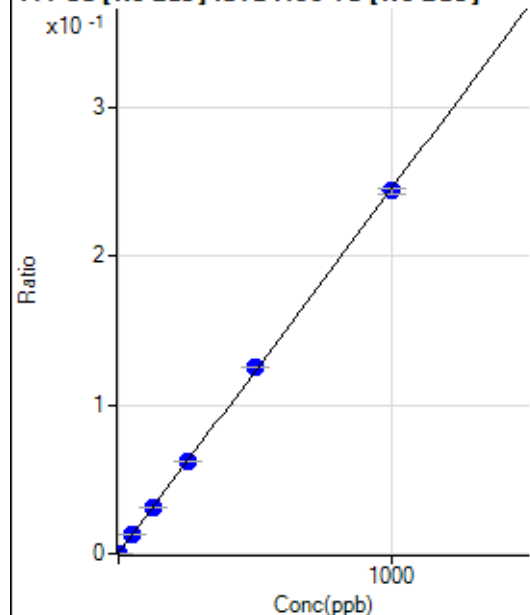
$$R = 0.9999$$

$$DL = 0.01586$$

$$BEC = 0.005269$$

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	592.95	0.0002	P	9.0
2	☐	1.000	0.917	1201.73	0.0004	P	3.3
3	☐	50.000	51.703	36380.11	0.0129	P	1.8
4	☐	125.000	127.102	88978.87	0.0314	P	1.3
5	☐	250.000	252.669	179030.18	0.0622	P	0.5
6	☐	500.000	509.817	365105.27	0.1252	P	0.5
7	☐	1000.000	994.076	737280.31	0.2439	P	1.4
8	☐			975.05	0.0003	P	0.6

$$y = 2.4515\text{E-}004 * x + 2.1523\text{E-}004$$

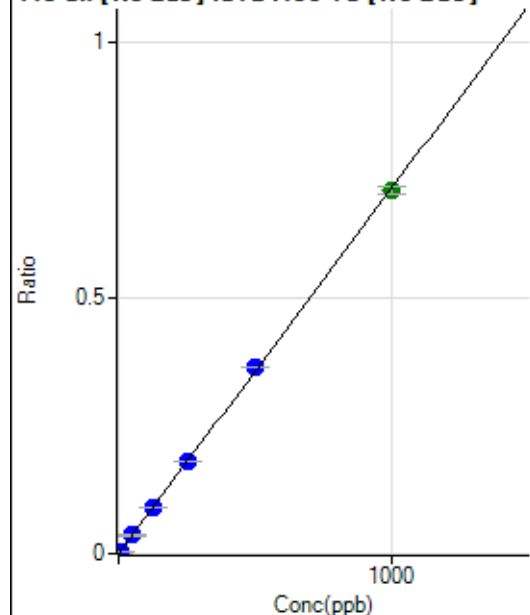
$$R = 0.9999$$

$$DL = 0.2366$$

$$BEC = 0.8779$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	161.12	0.0001	P	28.6
2	☐	5.000	4.760	9450.76	0.0035	P	4.4
3	☐	50.000	50.209	101410.56	0.0359	P	2.4
4	☐	125.000	126.820	257167.99	0.0907	P	1.7
5	☐	250.000	252.970	520795.13	0.1808	P	0.4
6	☐	500.000	511.339	1065650.79	0.3654	P	0.4
7	☐	1000.000	993.351	2145586.29	0.7098	A	2.2
8	☐			647.26	0.0002	P	18.0

$$y = 7.1450\text{E-}004 * x + 5.8482\text{E-}005$$

$$R = 0.9999$$

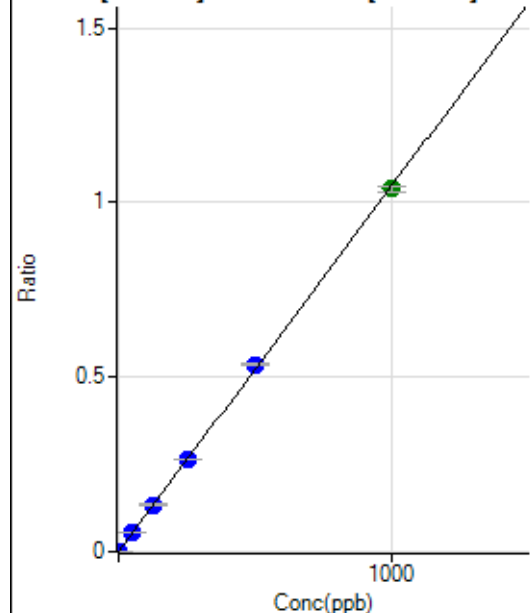
$$DL = 0.07021$$

$$BEC = 0.08185$$

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	8.33	0.0000	P	100.1
2	☐	2.000	1.944	5567.99	0.0020	P	5.3
3	☐	50.000	50.752	149961.06	0.0531	P	1.3
4	☐	125.000	128.087	380267.66	0.1341	P	1.6
5	☐	250.000	252.977	762701.23	0.2648	P	1.6
6	☐	500.000	512.752	1565342.26	0.5368	P	0.5
7	☐	1000.000	992.456	3140453.52	1.0389	A	1.3
8	☐			2086.34	0.0007	P	4.2

$$y = 0.0010 * x + 3.0132E-006$$

$$R = 0.9999$$

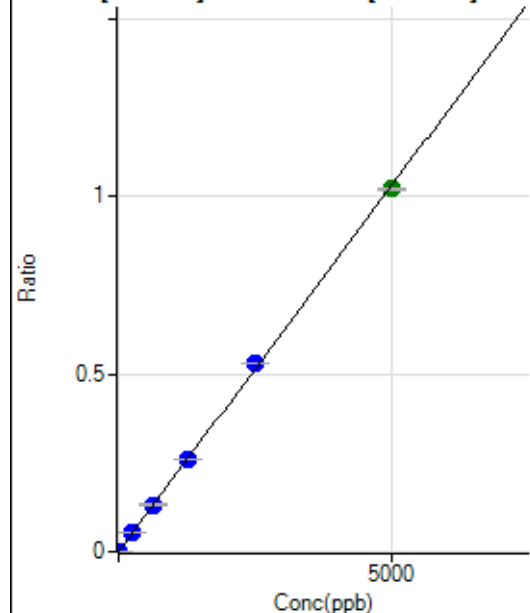
$$DL = 0.008645$$

$$BEC = 0.002878$$

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	25.00	0.0000	P	100.5
2	☐	10.000	9.423	5326.22	0.0019	P	4.0
3	☐	250.000	255.549	148579.00	0.0526	P	0.7
4	☐	625.000	640.268	374004.03	0.1319	P	1.3
5	☐	1250.000	1262.851	749111.35	0.2601	P	0.8
6	☐	2500.000	2573.432	1545627.88	0.5300	P	0.4
7	☐	5000.000	4957.886	3086623.79	1.0211	A	0.6
8	☐			5401.20	0.0017	P	4.6

$$y = 2.0595E-004 * x + 9.1040E-006$$

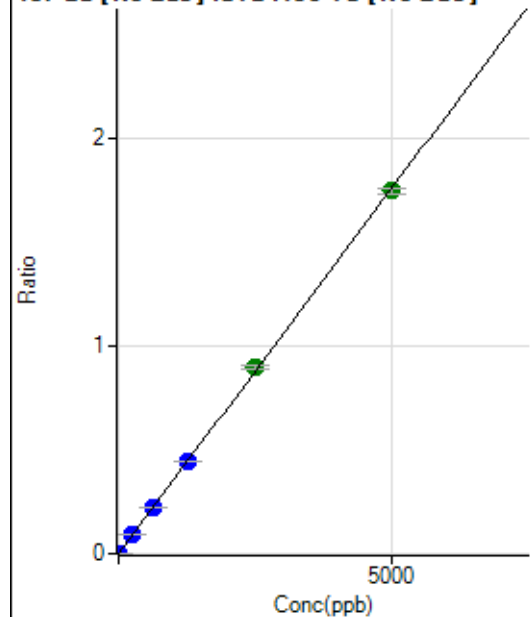
$$R = 0.9998$$

$$DL = 0.1332$$

$$BEC = 0.04421$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	13.89	0.0000	P	34.8
2	☐	10.000	9.672	9297.90	0.0034	P	3.2
3	☐	250.000	255.580	253512.37	0.0898	P	1.4
4	☐	625.000	640.864	638735.54	0.2252	P	1.1
5	☐	1250.000	1262.704	1277982.23	0.4437	P	1.8
6	☐	2500.000	2550.687	2613908.13	0.8964	A	1.4
7	☐	5000.000	4969.219	5279218.74	1.7463	A	1.5
8	☐			9750.99	0.0031	P	6.7

$$y = 3.5142\text{E-}004 * x + 5.0429\text{E-}006$$

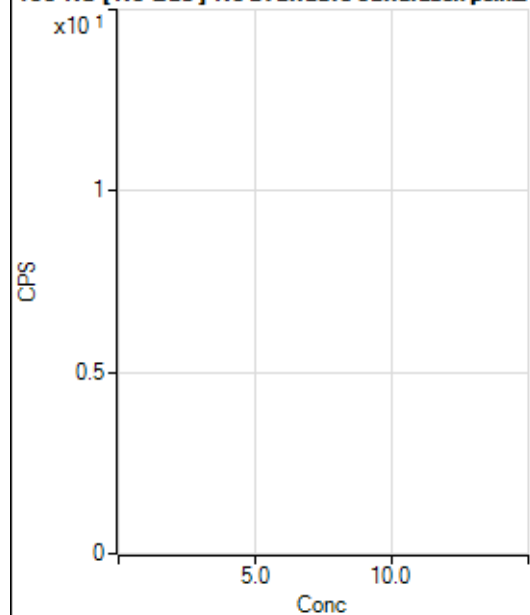
$$R = 0.9999$$

$$DL = 0.015$$

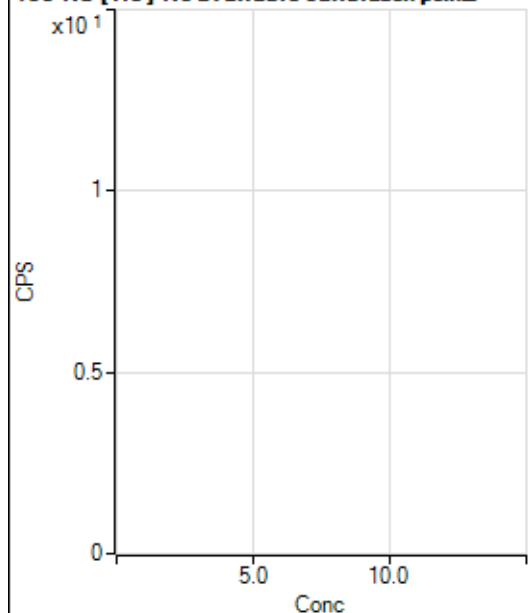
$$BEC = 0.01435$$

Weight: <None>

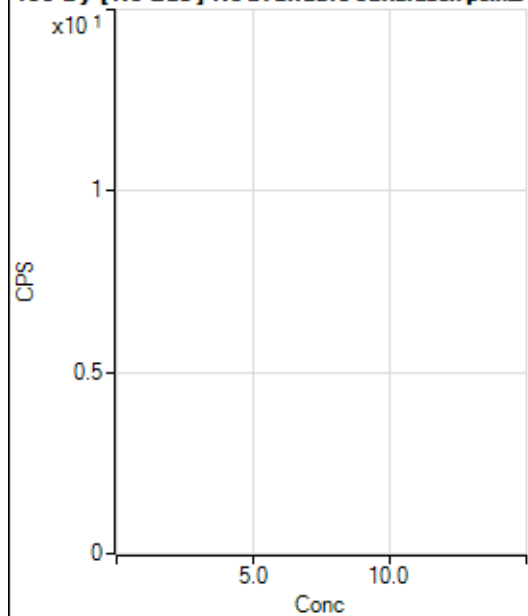
Min Conc: 0

150 Nd [No Gas] No available calibration points

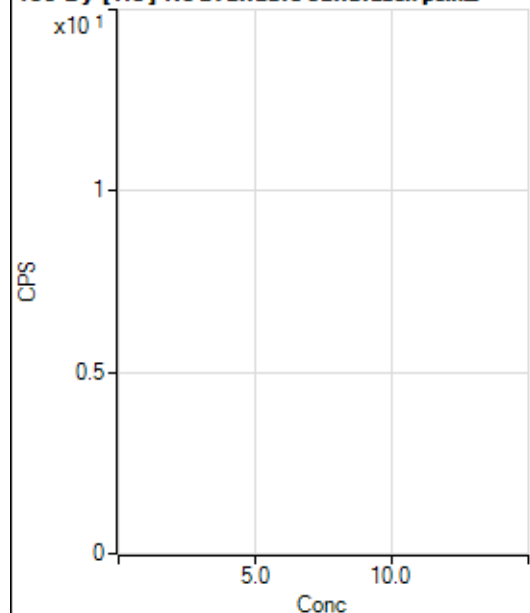
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			6.67		P	173.2
2	☐			6.67		P	0.0
3	☐			2.22		P	173.2
4	☐			28.89		P	35.2
5	☐			17.78		P	21.7
6	☐			51.11		P	32.8
7	☐			144.45		P	21.8
8	☐			22.22		P	34.7

150 Nd [He] No available calibration points

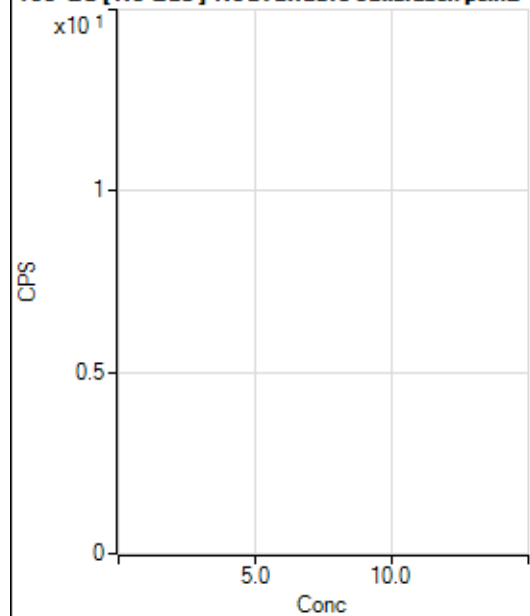
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			0.00		P	
2	☐			2.22		P	86.6
3	☐			0.00		P	
4	☐			3.33		P	100.1
5	☐			4.44		P	43.4
6	☐			11.11		P	17.3
7	☐			12.22		P	68.7
8	☐			10.00		P	57.7

156 Dy [No Gas] No available calibration points

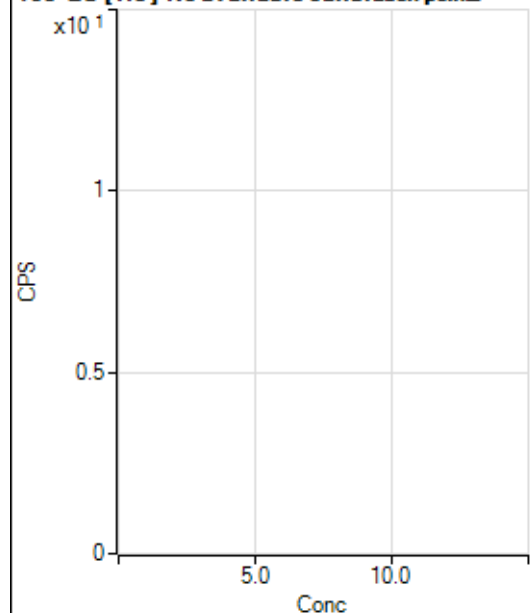
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			13.89		P	91.6
2	☐			2.78		P	173.2
3	☐			0.00		P	
4	☐			19.45		P	24.7
5	☐			16.67		P	100.0
6	☐			36.11		P	53.3
7	☐			69.45		P	18.3
8	☐			172.23		P	17.0

156 Dy [He] No available calibration points

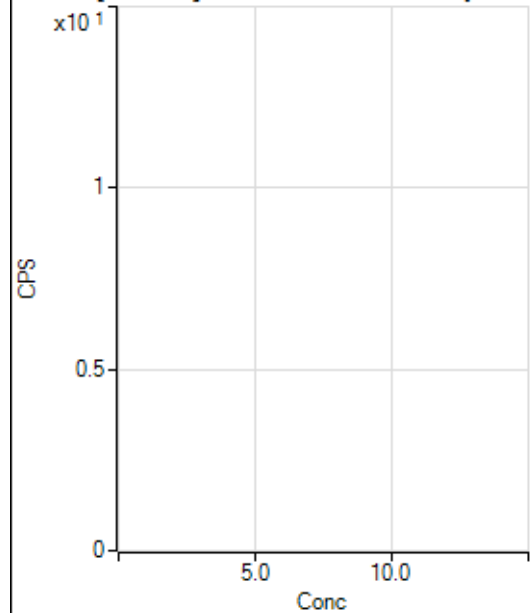
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2.22		P	173.2
2	☐			2.22		P	173.2
3	☐			2.22		P	86.6
4	☐			11.11		P	17.3
5	☐			11.11		P	105.4
6	☐			11.11		P	34.6
7	☐			23.33		P	28.6
8	☐			80.00		P	29.2

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

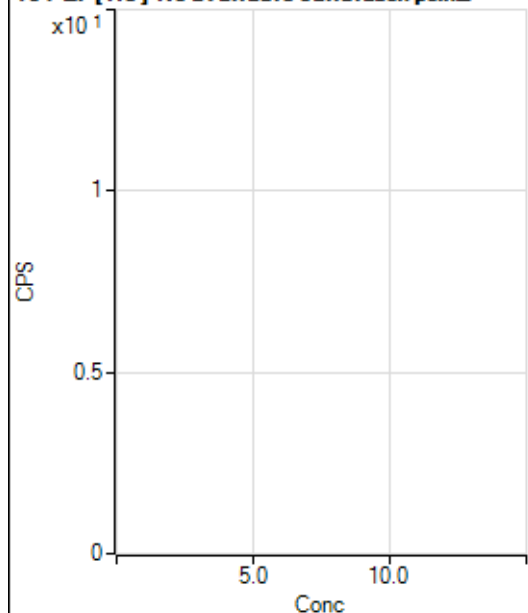
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			30.55		P	68.6
2	☐			19.44		P	89.2
3	☐			30.55		P	68.6
4	☐			33.33		P	43.3
5	☐			27.78		P	17.3
6	☐			36.11		P	26.7
7	☐			80.56		P	15.8
8	☐			225.01		P	40.1

160 Gd [He] No available calibration points

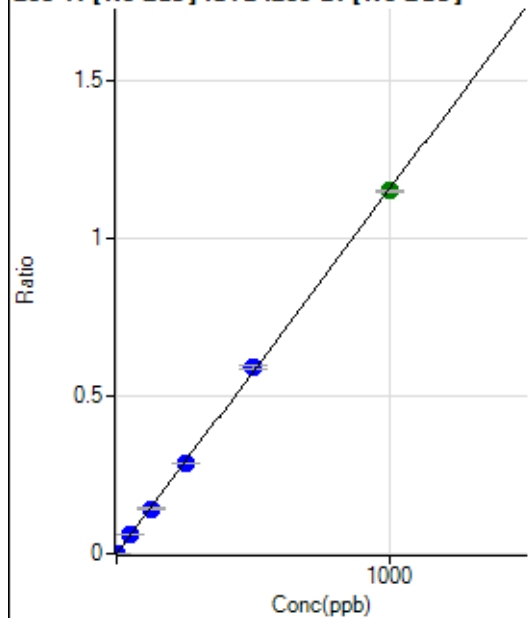
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			16.67		P	20.0
2	☐			7.78		P	65.5
3	☐			17.78		P	28.6
4	☐			18.89		P	10.2
5	☐			20.00		P	44.1
6	☐			16.67		P	20.0
7	☐			32.22		P	15.8
8	☐			88.89		P	17.3

164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			11.11		P	86.6
2	☐			8.33		P	100.0
3	☐			13.89		P	34.7
4	☐			22.22		P	43.3
5	☐			19.45		P	24.7
6	☐			33.33		P	50.0
7	☐			27.78		P	17.3
8	☐			50.00		P	50.0

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			5.56		P	34.7
2	☐			5.55		P	69.3
3	☐			7.78		P	65.5
4	☐			5.56		P	34.7
5	☐			10.00		P	66.7
6	☐			16.67		P	20.0
7	☐			12.22		P	56.8
8	☐			21.11		P	32.9

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	22.22	0.0000	P	86.6
2	☐	1.000	0.932	1586.25	0.0011	P	4.0
3	☐	50.000	50.484	86224.89	0.0583	P	0.7
4	☐	125.000	123.794	217720.99	0.1430	P	0.7
5	☐	250.000	248.776	442132.98	0.2874	P	1.1
6	☐	500.000	509.633	910714.86	0.5887	P	2.1
7	☐	1000.000	995.616	1833243.16	1.1500	A	0.7
8	☐			1261.21	0.0008	P	5.4

$$y = 0.0012 * x + 1.5384E-005$$

$$R = 0.9999$$

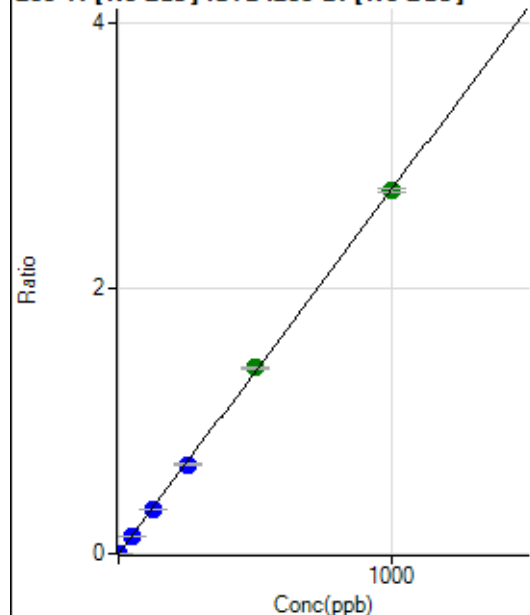
$$DL = 0.0346$$

$$BEC = 0.01332$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	27.78	0.0000	P	62.4
2	☐	1.000	0.872	3500.57	0.0024	P	4.5
3	☐	50.000	49.452	200461.48	0.1356	P	1.2
4	☐	125.000	122.930	513138.75	0.3370	P	0.6
5	☐	250.000	244.469	1031240.00	0.6703	P	1.0
6	☐	500.000	510.254	2164309.27	1.3989	A	1.8
7	☐	1000.000	996.542	4354883.56	2.7321	A	1.0
8	☐			3136.57	0.0020	P	5.2

$$y = 0.0027 * x + 1.9283E-005$$

$$R = 0.9999$$

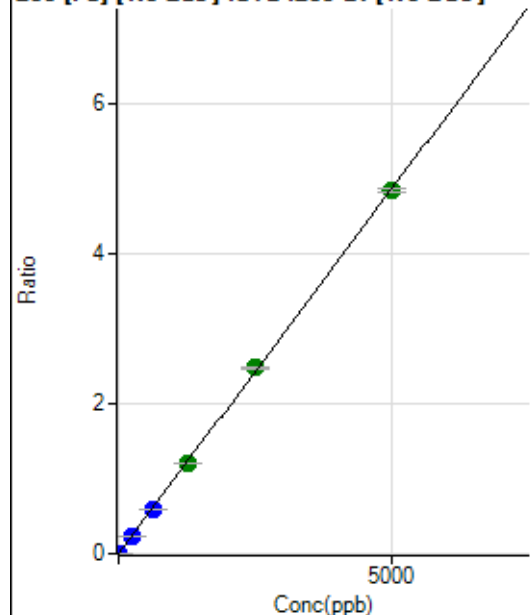
$$DL = 0.01317$$

$$BEC = 0.007033$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	162.97	0.0001	P	20.7
2	☐	1.000	0.806	1301.95	0.0009	P	9.8
3	☐	250.000	247.062	355092.96	0.2402	P	0.2
4	☐	625.000	613.777	908256.89	0.5966	P	1.1
5	☐	1250.000	1234.768	1846302.11	1.2000	A	1.1
6	☐	2500.000	2554.625	3841145.60	2.4826	A	0.9
7	☐	5000.000	4978.045	7710847.51	4.8375	A	1.1
8	☐			2207.63	0.0014	P	4.0

$$y = 9.7175E-004 * x + 1.1308E-004$$

$$R = 0.9999$$

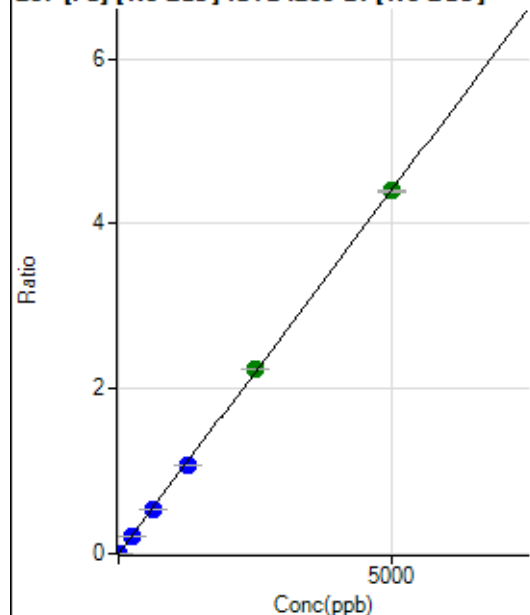
$$DL = 0.07211$$

$$BEC = 0.1164$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	112.97	0.0001	P	18.2
2	☐	1.000	0.863	1218.60	0.0008	P	7.3
3	☐	250.000	249.219	324610.85	0.2196	P	1.0
4	☐	625.000	605.282	811796.37	0.5332	P	1.0
5	☐	1250.000	1219.763	1653119.81	1.0744	P	0.8
6	☐	2500.000	2535.493	3455518.85	2.2333	A	0.7
7	☐	5000.000	4992.317	7009629.32	4.3972	A	0.8
8	☐			1827.94	0.0012	P	2.8

$$y = 8.8078E-004 * x + 7.8360E-005$$

$$R = 0.9999$$

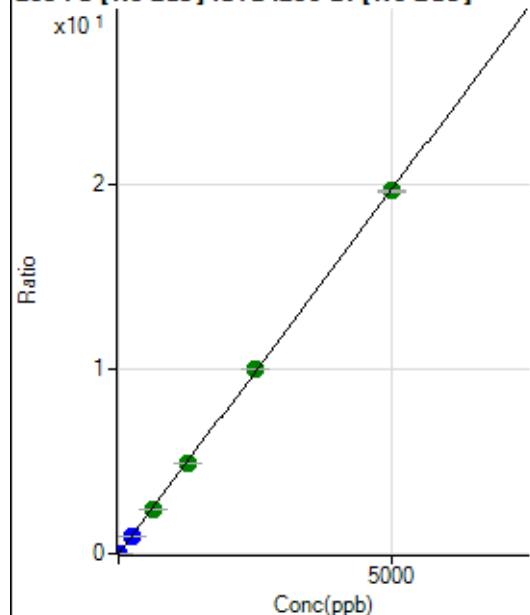
$$DL = 0.0487$$

$$BEC = 0.08897$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	551.87	0.0004	P	7.5
2	☐	1.000	0.843	5389.44	0.0037	P	3.2
3	☐	250.000	247.799	1446769.41	0.9787	P	0.5
4	☐	625.000	616.873	3708294.64	2.4357	A	0.4
5	☐	1250.000	1243.134	7551826.06	4.9081	A	0.2
6	☐	2500.000	2537.312	15499604.11	10.0173	A	0.6
7	☐	5000.000	4984.186	31366983.57	19.6772	A	0.5
8	☐			8612.39	0.0055	P	3.3

$$y = 0.0039 * x + 3.8299E-004$$

$$R = 1.0000$$

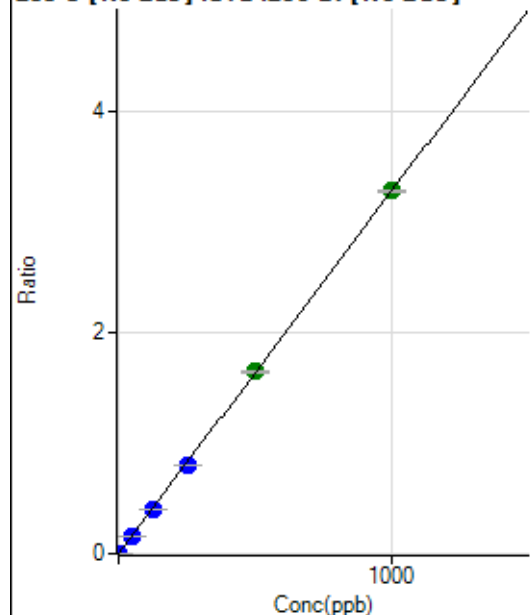
$$DL = 0.02186$$

$$BEC = 0.09701$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	11.11	0.0000	P	114.3
2	☐	1.000	0.882	4214.74	0.0029	P	3.8
3	☐	50.000	49.310	239043.24	0.1617	P	0.7
4	☐	125.000	121.974	608946.75	0.4000	P	0.6
5	☐	250.000	243.376	1227898.26	0.7981	P	0.9
6	☐	500.000	502.009	2546968.52	1.6461	A	1.8
7	☐	1000.000	1001.064	5232631.58	3.2826	A	0.6
8	☐			597.26	0.0004	P	10.5

$$y = 0.0033 * x + 7.7090E-006$$

$$R = 1.0000$$

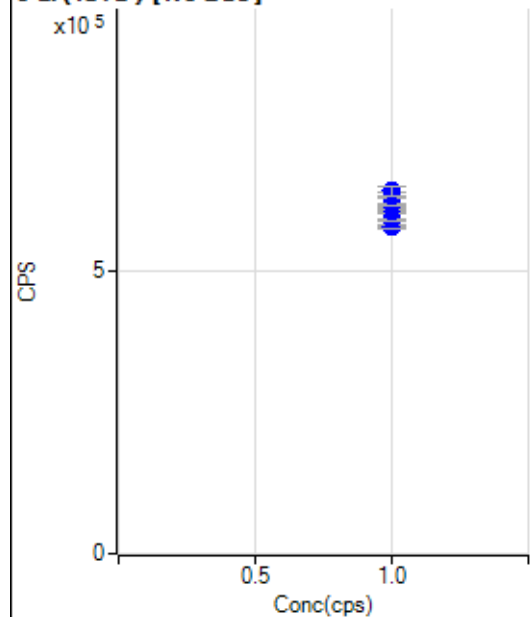
$$DL = 0.008063$$

$$BEC = 0.002351$$

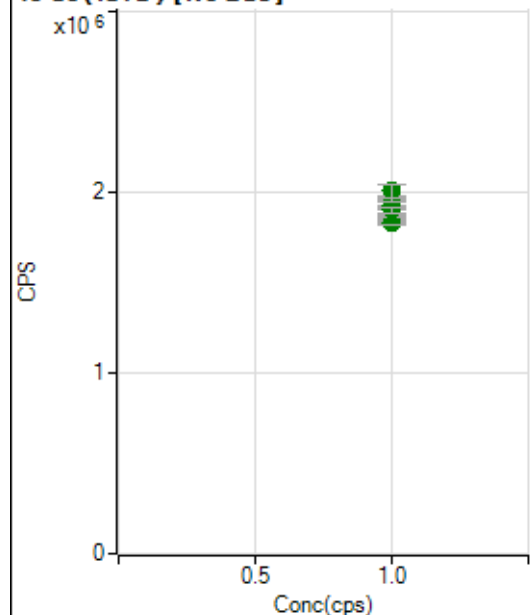
Weight: <None>

Min Conc: 0

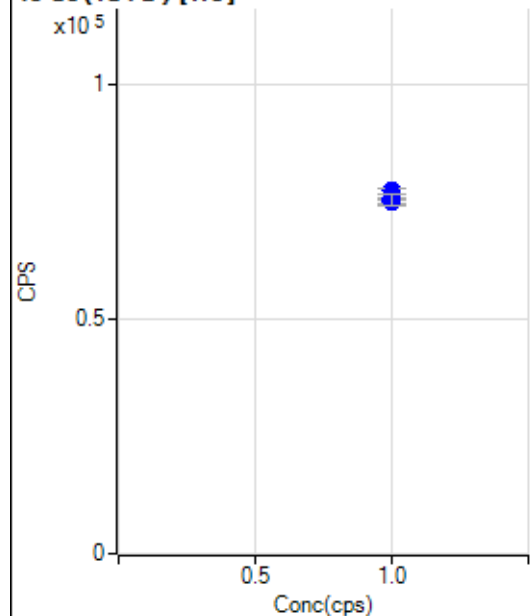
6 Li (ISTD) [No Gas]



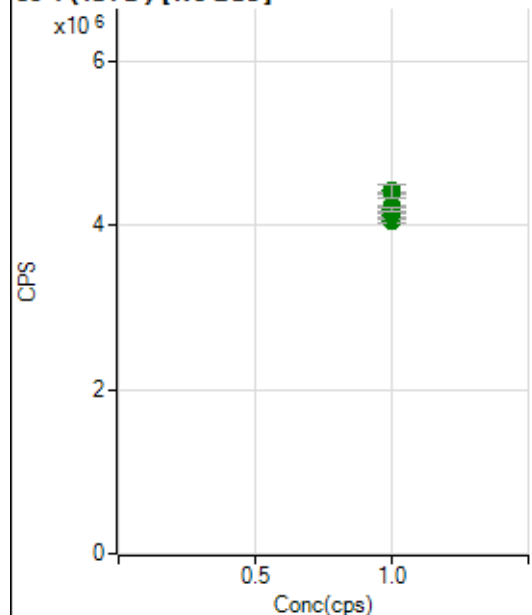
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		581763.37		P	0.5
2	☐	1.000		579182.50		P	1.0
3	☐	1.000		592464.94		P	0.3
4	☐	1.000		606002.71		P	0.3
5	☐	1.000		612741.61		P	0.7
6	☐	1.000		620499.76		P	0.5
7	☐	1.000		636166.91		P	1.2
8	☐	1.000		643560.64		P	2.5

45 Sc (ISTD) [No Gas]

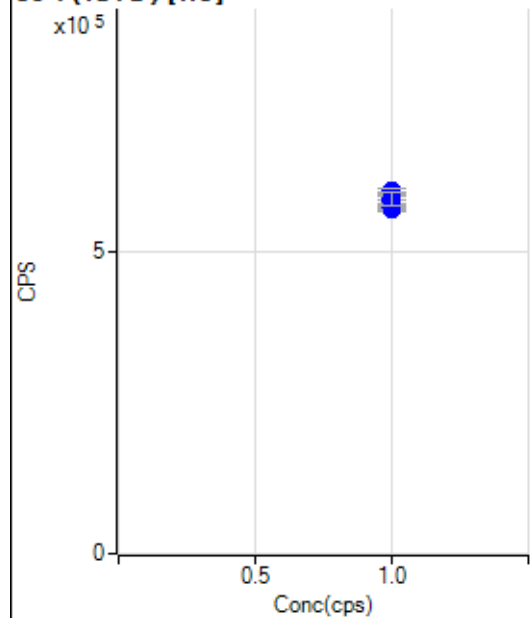
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1835847.30		A	0.5
2	☐	1.000		1834540.69		A	1.6
3	☐	1.000		1871137.89		A	0.6
4	☐	1.000		1915299.83		A	1.2
5	☐	1.000		1931419.87		A	3.0
6	☐	1.000		1901470.53		A	1.4
7	☐	1.000		1967372.52		A	1.7
8	☐	1.000		2007951.34		A	3.6

45 Sc (ISTD) [He]

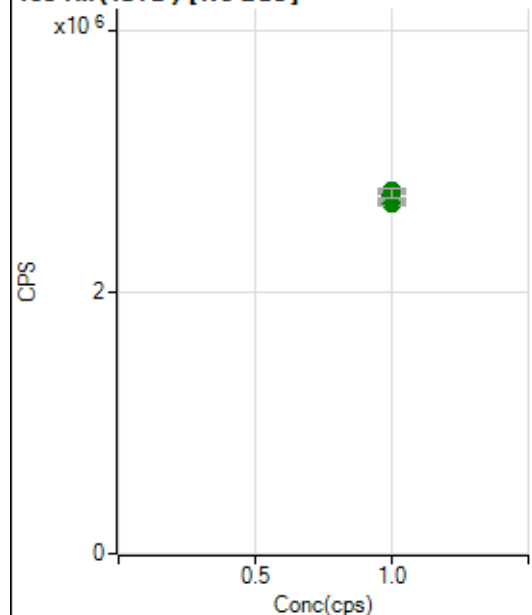
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		74875.95		P	1.5
2	☐	1.000		75335.21		P	1.6
3	☐	1.000		75577.33		P	0.6
4	☐	1.000		75824.17		P	1.5
5	☐	1.000		75552.75		P	2.4
6	☐	1.000		77266.49		P	1.9
7	☐	1.000		76590.44		P	0.1
8	☐	1.000		75314.12		P	3.5

89 Y (ISTD) [No Gas]

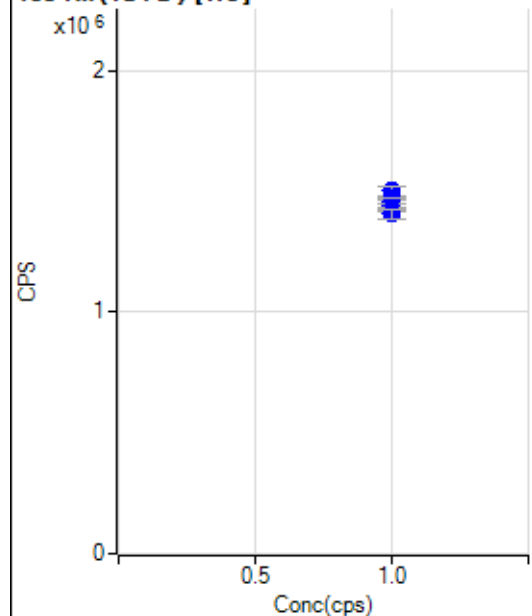
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4063551.40		A	1.5
2	☐	1.000		4131374.97		A	2.0
3	☐	1.000		4157423.62		A	0.7
4	☐	1.000		4239275.60		A	0.6
5	☐	1.000		4250669.69		A	0.0
6	☐	1.000		4200687.68		A	1.5
7	☐	1.000		4405985.80		A	0.6
8	☐	1.000		4424075.49		A	4.0

89 Y (ISTD) [He]

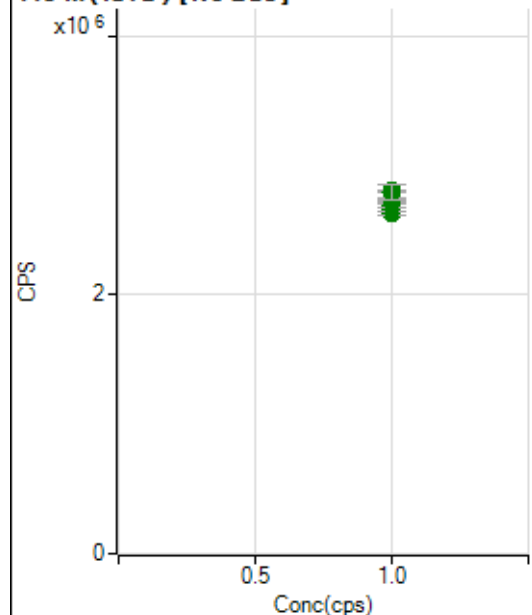
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		568135.43		P	0.8
2	☐	1.000		573977.29		P	0.3
3	☐	1.000		572275.19		P	0.9
4	☐	1.000		582510.98		P	1.2
5	☐	1.000		576294.68		P	0.6
6	☐	1.000		599296.47		P	1.4
7	☐	1.000		587774.47		P	0.6
8	☐	1.000		584991.89		P	3.8

103 Rh (ISTD) [No Gas]

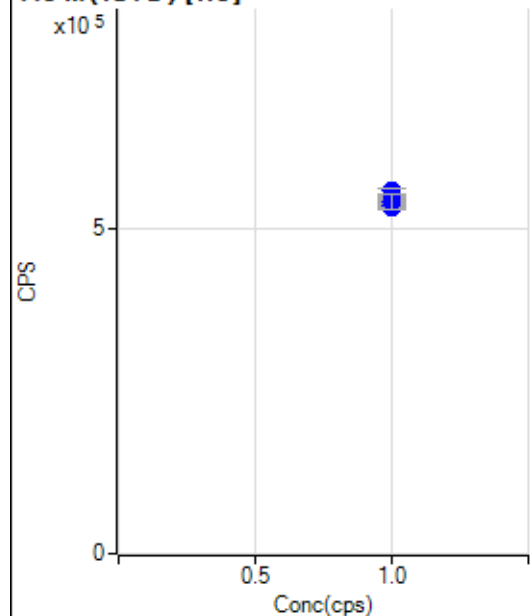
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2670764.73		A	0.3
2	☐	1.000		2669799.32		A	0.9
3	☐	1.000		2709844.35		A	0.8
4	☐	1.000		2733359.96		A	1.5
5	☐	1.000		2746993.07		A	0.4
6	☐	1.000		2739872.26		A	2.4
7	☐	1.000		2772474.65		A	0.8
8	☐	1.000		2748227.66		A	2.7

103 Rh (ISTD) [He]

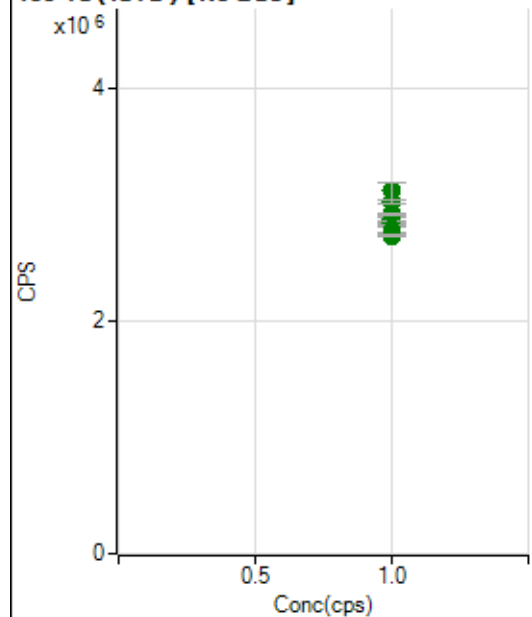
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1426589.14		P	1.3
2	☐	1.000		1434914.74		P	0.2
3	☐	1.000		1441653.57		P	1.2
4	☐	1.000		1458284.18		P	0.7
5	☐	1.000		1455028.17		P	1.2
6	☐	1.000		1502450.41		P	2.4
7	☐	1.000		1474745.31		P	0.3
8	☐	1.000		1405781.33		P	3.3

115 In (ISTD) [No Gas]

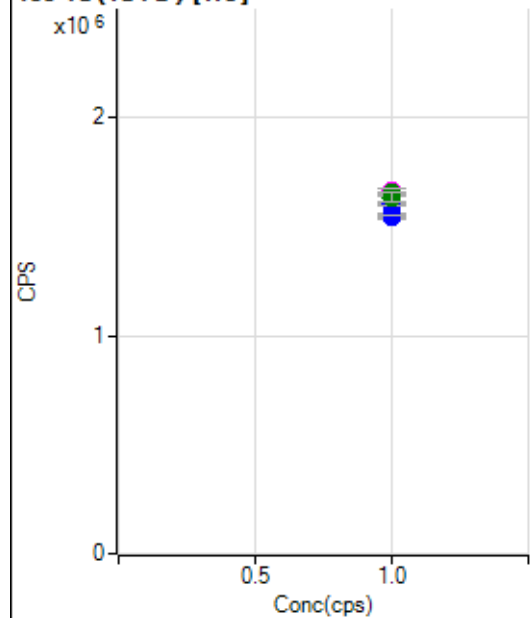
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2629802.58		A	1.4
2	☐	1.000		2655494.86		A	1.1
3	☐	1.000		2689225.58		A	1.4
4	☐	1.000		2719765.69		A	0.3
5	☐	1.000		2742160.21		A	0.8
6	☐	1.000		2741337.96		A	0.6
7	☐	1.000		2800952.02		A	0.5
8	☐	1.000		2795028.75		A	4.1

115 In (ISTD) [He]

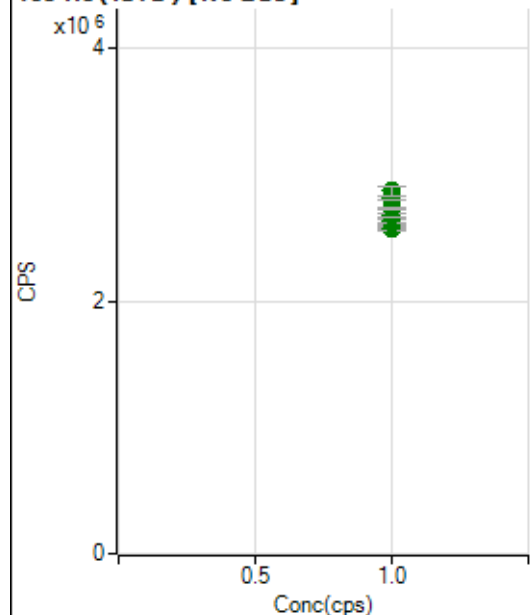
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		532067.54		P	0.5
2	☐	1.000		534306.00		P	0.7
3	☐	1.000		539025.95		P	0.3
4	☐	1.000		544935.96		P	0.5
5	☐	1.000		545719.14		P	1.2
6	☐	1.000		556637.28		P	1.9
7	☐	1.000		545385.93		P	0.5
8	☐	1.000		539858.49		P	4.1

159 Tb (ISTD) [No Gas]

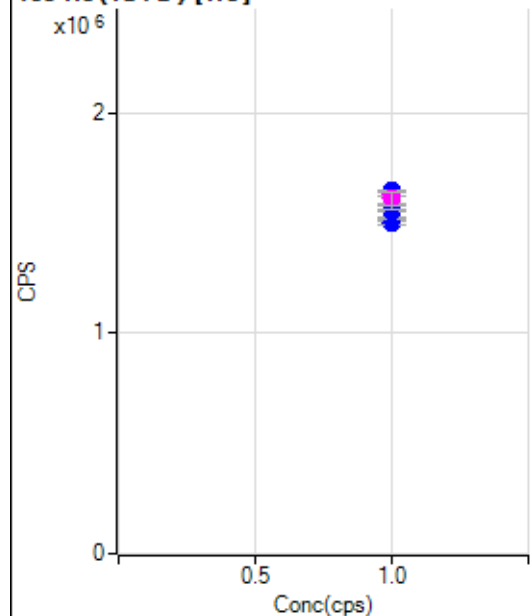
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2755902.70		A	0.7
2	☐	1.000		2731407.50		A	0.6
3	☐	1.000		2822836.97		A	1.6
4	☐	1.000		2836332.35		A	1.2
5	☐	1.000		2880424.82		A	1.2
6	☐	1.000		2916337.77		A	0.8
7	☐	1.000		3022959.58		A	0.9
8	☐	1.000		3116828.49		A	4.5

159 Tb (ISTD) [He]

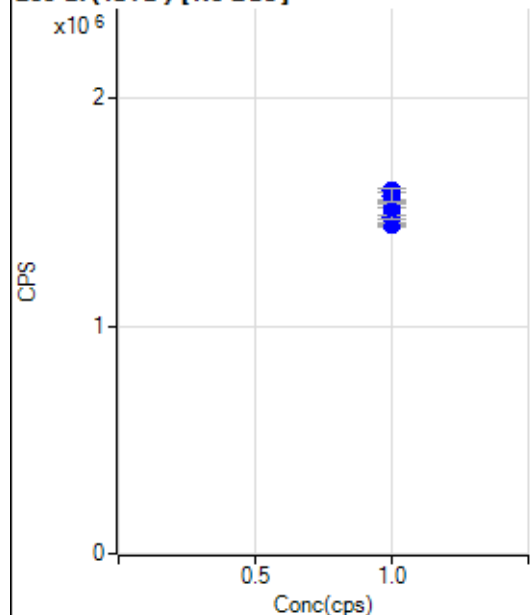
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1539552.35		P	1.1
2	☐	1.000		1549828.74		P	1.0
3	☐	1.000		1552521.70		P	0.4
4	☐	1.000		1598025.64		P	0.5
5	☐	1.000		1607641.17		P	1.1
6	☐	1.000		1663771.99		M	1.4
7	☐	1.000		1660467.41		A	2.0
8	☐	1.000		1633709.19		A	2.5

165 Ho (ISTD) [No Gas]

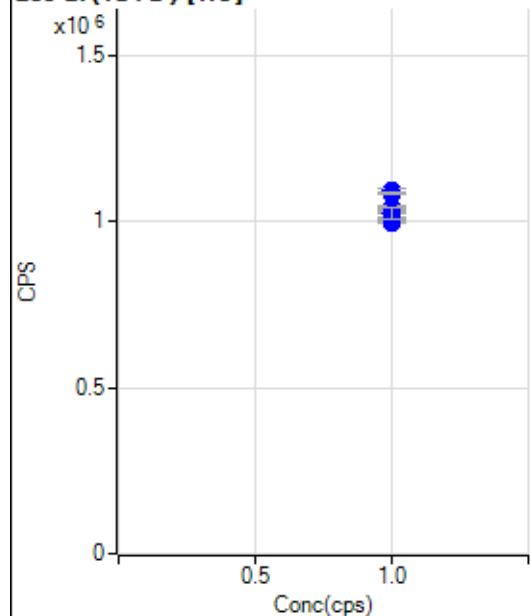
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2566979.92		A	0.8
2	☐	1.000		2570766.07		A	0.8
3	☐	1.000		2612912.12		A	0.8
4	☐	1.000		2630682.44		A	1.0
5	☐	1.000		2672547.82		A	1.0
6	☐	1.000		2735570.44		A	0.5
7	☐	1.000		2814373.63		A	1.4
8	☐	1.000		2870853.23		A	2.5

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1497365.55		P	1.2
2	☐	1.000		1514120.19		P	0.8
3	☐	1.000		1521944.01		P	0.3
4	☐	1.000		1550207.63		P	0.2
5	☐	1.000		1574611.22		P	1.5
6	☐	1.000		1631706.78		M	1.6
7	☐	1.000		1645506.24		P	0.6
8	☐	1.000		1610774.32		M	3.6

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1440897.39		P	0.4
2	☐	1.000		1452868.52		P	0.4
3	☐	1.000		1478362.84		P	0.9
4	☐	1.000		1522480.62		P	0.3
5	☐	1.000		1538637.62		P	0.5
6	☐	1.000		1547368.17		P	1.4
7	☐	1.000		1594045.74		P	1.2
8	☐	1.000		1573779.13		P	4.0

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		997757.86		P	0.5
2	☐	1.000		1007835.44		P	0.9
3	☐	1.000		1013323.68		P	0.6
4	☐	1.000		1028604.19		P	0.6
5	☐	1.000		1040445.68		P	1.1
6	☐	1.000		1093086.36		P	1.7
7	☐	1.000		1083739.82		P	0.6
8	☐	1.000		1026585.28		P	3.3

US EPA Tune Check Report

Operator Name Jaswal
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\P8071920-MS1.b
Acq. Date-Time 2020-07-19 21:14:12
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		1996	19959.38			1.597	5.000
24		25384	253840.04			1.612	5.000
25		3638	36384.07			2.069	5.000
26		4155	41547.84			1.546	5.000
59		16357	163574.38			1.619	5.000
113		2461	24607.59			1.740	5.000
115		7185	71845.06			2.233	5.000
206		2350	23502.26			1.989	5.000
207		1939	19394.20			1.670	5.000
208		4817	48174.93			2.113	5.000
220		1	9.20			21.942	

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

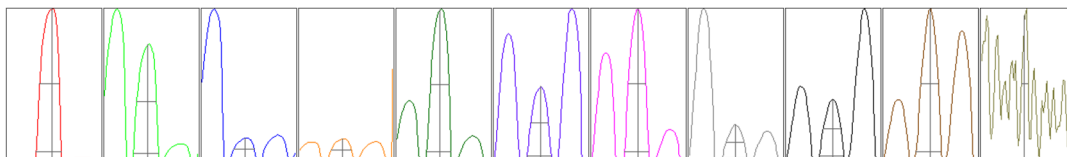
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	2015	2011	2019	1942	1992
24	25302	25743	25699	24728	25450
25	3652	3681	3684	3506	3669
26	4172	4207	4182	4043	4170
59	16335	16402	16666	15939	16445
113	2445	2475	2506	2395	2484
115	7227	7333	7287	6925	7151
206	2287	2392	2377	2314	2381
207	1907	1980	1955	1906	1949
208	4700	4904	4927	4728	4829

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	3375.58	8.95	8.90 - 9.10	
24	43541.06	23.90	23.90 - 24.10	
25	5955.40	24.90	24.90 - 25.10	
26	6835.38	25.90	25.90 - 26.10	
59	28842.99	58.90	58.90 - 59.10	
113	4660.18	113.00	112.90 - 113.10	
115	13662.40	115.00	114.90 - 115.10	
206	4456.86	206.00	205.90 - 206.10	
207	3647.80	207.00	206.90 - 207.10	
208	9191.16	208.00	207.90 - 208.10	
220	1.55	219.90	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.63	0.784	0.900	
24	0.64	0.789	0.900	
25	0.64	0.817	0.900	
26	0.64	0.792	0.900	
59	0.60	0.773	0.900	
113	0.55	0.772	0.900	
115	0.55	0.768	0.900	
206	0.55	0.777	0.900	
207	0.56	0.785	0.900	
208	0.55	0.803	0.900	
220	0.21			

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode HMI Nebulizer Gas 0.50 L/min Dilution Gas 0.45 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	11.3 V	Deflect	15.4 V
Extract 2	-250.0 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	180 V		

QP Parameters

Mass Gain	123	Axis Gain	0.9997	QP Bias	-4.0 V
Mass Offset	123	Axis Offset	-0.08		

Hardware Settings

Torch

Torch H	0.2 mm	Torch V	-0.1 mm
---------	--------	---------	---------

EM

Discriminator	3.9 mV	Analog HV	2167 V	Pulse HV	1258 V
---------------	--------	-----------	--------	----------	--------

[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		4100	41000.94			0.418	
89		10493	104928.23			0.494	
205		7354	73535.24			0.903	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	4093	4079	4125	4095	4107
89	10481	10436	10498	10474	10576
205	7388	7306	7305	7314	7455

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	HMI	Nebulizer Gas	0.50 L/min	Dilution Gas	0.45 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	11.3 V	Deflect	5.0 V
-----------	--------	------------	--------	---------	-------

US EPA Tune Check Report

Extract 2	-250.0 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	123	Axis Gain	0.9997	QP Bias	-13.0 V
Mass Offset	123	Axis Offset	-0.08		
Hardware Settings					
Torch					
Torch H	0.2 mm	Torch V	-0.1 mm		
EM					
Discriminator	3.9 mV	Analog HV	2167 V	Pulse HV	1258 V