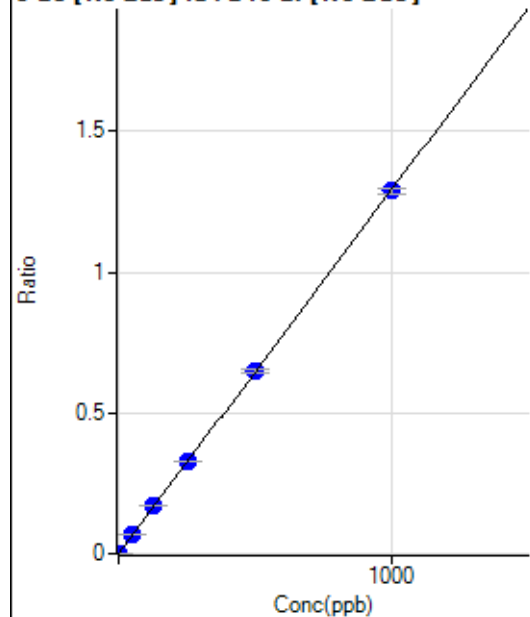


Calibration for 011CALS.d

Batch Folder: D:\Agilent\ICPMH\1\DATA\P7092325-MS.b\
 Analysis File: P7092325-MS.batch.bin
 DA Date-Time: 2025-09-23 18:24:18
 Calibration Title:
 Calibration Method: External Calibration
 VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.d	S00	2025-09-23 14:48:53
2	005CALS.d	S02	2025-09-23 14:52:08
3	006CALS.d	S03	2025-09-23 14:55:26
4	007CALS.d	S04	2025-09-23 14:58:35
5	009CALS.d	S05	2025-09-23 15:04:32
6	010CALS.d	S06	2025-09-23 15:07:27
7	011CALS.d	S07	2025-09-23 15:10:12
8	012CALS.d	S08	2025-09-23 15:12:59

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	10.00	0.0000	P	66.4
2	☐	1.000	1.150	1025.60	0.0015	P	1.5
3	☐	50.000	51.882	46111.71	0.0670	P	1.6
4	☐	125.000	130.149	112414.15	0.1681	P	0.5
5	☐	250.000	252.108	213796.58	0.3256	P	0.5
6	☐	500.000	502.702	405666.02	0.6492	P	2.3
7	☐	1000.000	997.384	736447.11	1.2879	P	1.4
8	☐			128.89	0.0002	P	6.5

$$y = 0.0013 * x + 1.4772E-005$$

$$R = 1.0000$$

$$DL = 0.02279$$

$$BEC = 0.01144$$

Weight: <None>

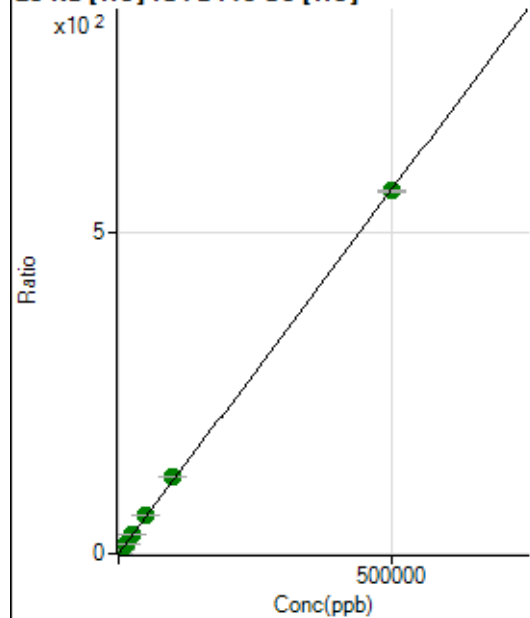
Min Conc: <None>

12 C [No Gas] No available calibration points

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

12 C [He] No available calibration points

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

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	18615.79	0.0572	P	1.0
2	☐	500.000	511.834	206910.29	0.6375	P	0.6
3	☐	5000.000	5239.323	1943054.61	5.9977	A	1.3
4	☐	12500.000	12922.823	4599913.93	14.7095	A	1.2
5	☐	25000.000	26269.598	9179213.34	29.8424	A	2.6
6	☐	50000.000	52681.203	17594809.18	59.7887	A	1.0
7	☐	100000.00	104757.23	32384622.85	118.8340	A	0.4
8	☐	500000.00	498703.97	160276488.7	565.5025	A	0.7

$$y = 0.0011 * x + 0.0572$$

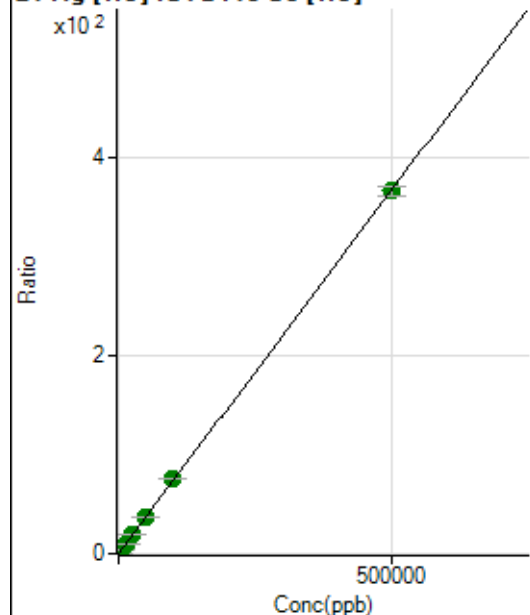
$$R = 0.9999$$

$$DL = 1.509$$

$$BEC = 50.45$$

Weight: <None>

Min Conc: <None>

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	325.56	0.0010	P	8.4
2	☐	500.000	514.004	122508.34	0.3775	P	1.2
3	☐	5000.000	5159.153	1224598.86	3.7799	A	2.3
4	☐	12500.000	12907.812	2956592.53	9.4554	A	3.2
5	☐	25000.000	25657.154	5781363.53	18.7938	A	2.0
6	☐	50000.000	51289.871	11056230.81	37.5686	A	1.0
7	☐	100000.00	103067.99	20574363.30	75.4939	A	1.4
8	☐	500000.00	499212.75	103629631.7	365.6529	A	2.4

$$y = 7.3246\text{E-}004 * x + 0.0010$$

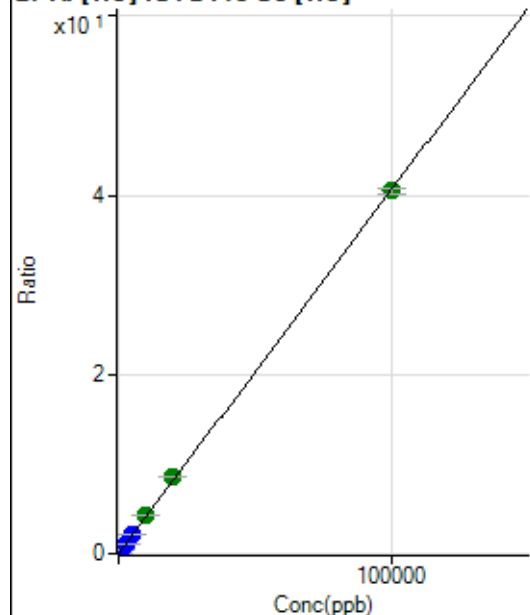
$$R = 1.0000$$

$$DL = 0.3428$$

$$BEC = 1.366$$

Weight: <None>

Min Conc: <None>

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	1184.50	0.0036	P	3.5
2	☐	20.000	21.333	3991.67	0.0123	P	3.1
3	☐	1000.000	1028.919	136529.02	0.4215	P	0.9
4	☐	2500.000	2599.189	331179.19	1.0591	P	1.3
5	☐	5000.000	5225.851	653915.52	2.1257	P	1.2
6	☐	10000.000	10596.893	1267387.91	4.3068	A	0.5
7	☐	20000.000	21156.316	2342323.21	8.5947	A	1.7
8	☐	100000.00	99694.986	11474453.99	40.4871	A	1.5

$$y = 4.0607\text{E-}004 * x + 0.0036$$

$$R = 0.9999$$

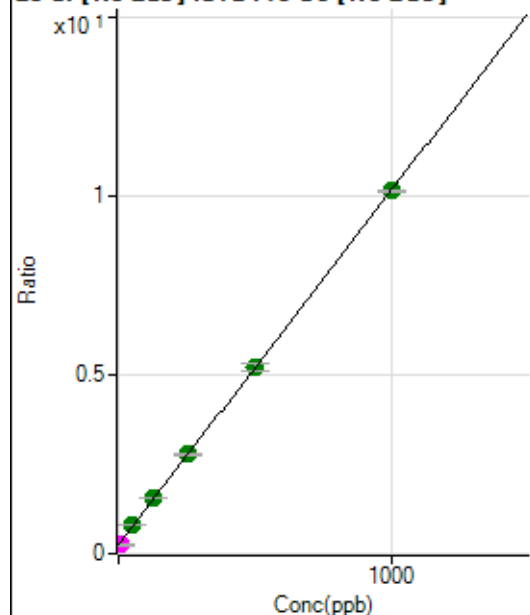
$$DL = 0.9451$$

$$BEC = 8.962$$

Weight: <None>

Min Conc: <None>

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	952186.00	0.2505	M	19.0
2	☐	10.000	0.563	971350.28	0.2561	M	18.8
3	☐	50.000	55.112	3006445.93	0.7965	A	2.3
4	☐	125.000	130.838	5656420.89	1.5466	A	1.2
5	☐	250.000	256.097	9931126.66	2.7874	A	1.8
6	☐	500.000	499.632	17777985.98	5.1998	A	4.3
7	☐	1000.000	997.769	31928486.75	10.1343	A	0.6
8	☐			1251552.66	0.3940	A	1.0

$$y = 0.0099 * x + 0.2505$$

$$R = 0.9999$$

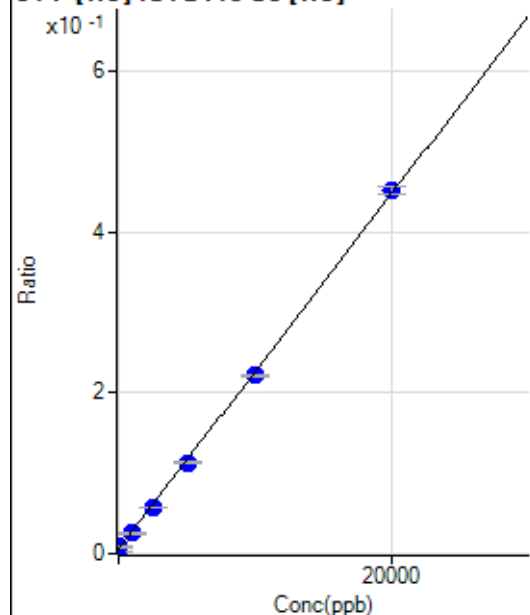
$$DL = 14.44$$

$$BEC = 25.29$$

Weight: <None>

Min Conc: <None>

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	-120.718	991.15	0.0030	P	7.5
2	☐	0.000	120.718	2720.27	0.0084	P	3.9
3	☐	1000.000	884.829	8183.35	0.0253	P	1.9
4	☐	2500.000	2340.955	17958.42	0.0574	P	2.4
5	☐	5000.000	4879.306	34914.43	0.1135	P	2.9
6	☐	10000.000	9782.181	65277.84	0.2218	P	0.8
7	☐	20000.000	20164.722	122952.38	0.4512	P	2.2
8	☐			916.71	0.0032	P	2.9

$$y = 2.2093E-005 * x + 0.0057$$

$$R = 0.9998$$

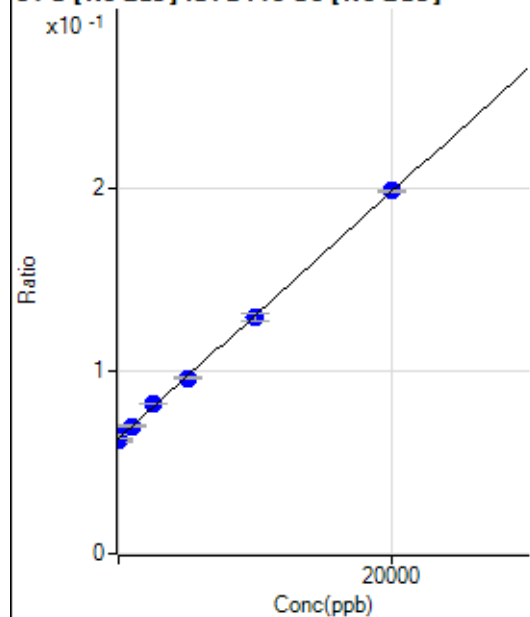
$$DL = 37.47$$

$$BEC = 258.6$$

Weight: <None>

Min Conc: <None>

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	-214.372	235244.49	0.0618	P	2.5
2	☐	0.000	214.372	245586.78	0.0647	P	3.0
3	☐	1000.000	1015.410	264682.40	0.0701	P	2.0
4	☐	2500.000	2790.729	300413.94	0.0821	P	0.7
5	☐	5000.000	4873.976	342906.02	0.0962	P	1.3
6	☐	10000.000	9891.699	445323.43	0.1302	P	3.2
7	☐	20000.000	20048.545	626957.16	0.1990	P	0.6
8	☐			208921.29	0.0658	P	0.8

$$y = 6.7713\text{E-}006 * x + 0.0632$$

$$R = 0.9997$$

$$DL = 762.6$$

$$BEC = 9340$$

Weight: <None>

Min Conc: <None>

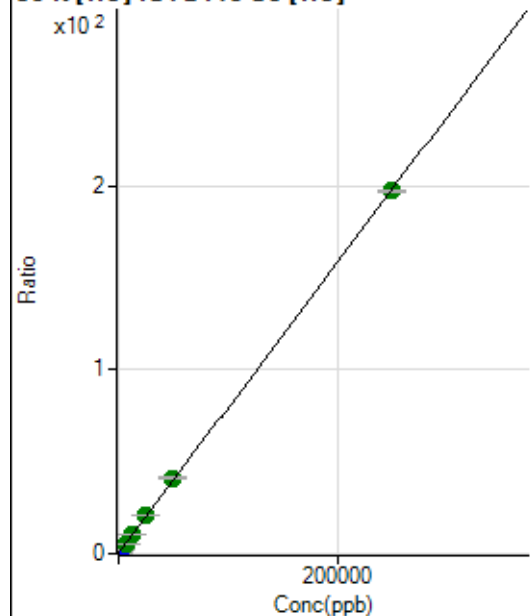
35 Cl [No Gas] No available calibration points



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

35 Cl [He] No available calibration points

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

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	55626.72	0.1709	P	0.6
2	☐	500.000	533.087	192169.40	0.5921	P	0.3
3	☐	2500.000	2648.856	733334.18	2.2637	P	0.2
4	☐	6250.000	6325.398	1616192.51	5.1684	A	0.4
5	☐	12500.000	12840.571	3173167.14	10.3159	A	2.0
6	☐	25000.000	25844.512	6058506.30	20.5899	A	1.2
7	☐	50000.000	51846.776	11208507.06	41.1335	A	2.3
8	☐	250000.00	249525.72	55922476.39	197.3139	A	0.8

$$y = 7.9007\text{E-}004 * x + 0.1709$$

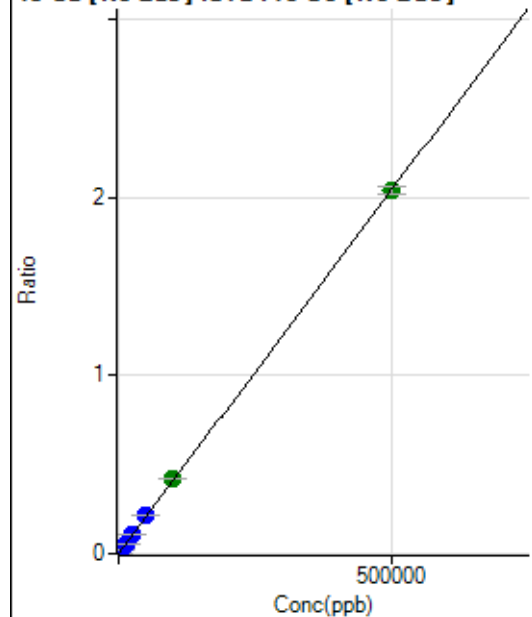
$$R = 1.0000$$

$$DL = 3.649$$

$$BEC = 216.3$$

Weight: <None>

Min Conc: <None>

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	303.34	0.0001	P	2.3
2	☐	500.000	527.186	8486.89	0.0022	P	1.4
3	☐	5000.000	5311.222	82256.57	0.0218	P	1.8
4	☐	12500.000	13287.979	198960.71	0.0544	P	1.5
5	☐	25000.000	26658.344	388521.88	0.1090	P	1.2
6	☐	50000.000	53035.079	741540.77	0.2169	P	3.9
7	☐	100000.00	103166.03	1328807.32	0.4218	A	2.0
8	☐	500000.00	498957.52	6479283.24	2.0396	A	2.1

$$y = 4.0876\text{E-}006 * x + 7.9637\text{E-}005$$

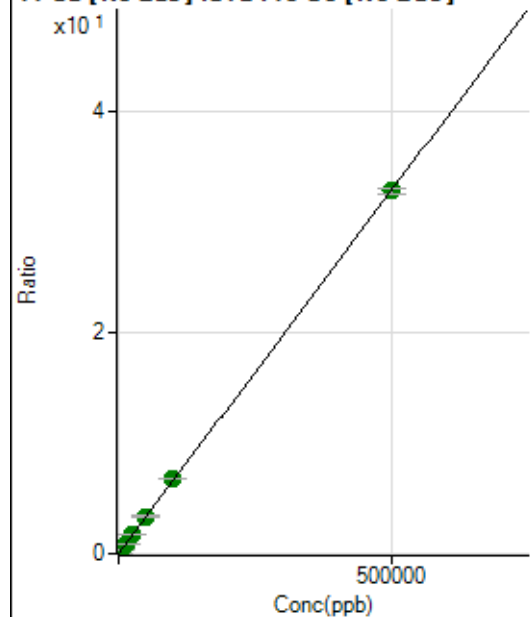
$$R = 1.0000$$

$$DL = 1.342$$

$$BEC = 19.48$$

Weight: <None>

Min Conc: <None>

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	20765.19	0.0055	P	1.5
2	☐	500.000	534.232	154211.43	0.0406	P	1.7
3	☐	5000.000	5120.295	1292883.97	0.3425	A	0.9
4	☐	12500.000	12689.893	3074817.00	0.8407	A	0.6
5	☐	25000.000	25459.391	5990190.05	1.6812	A	0.5
6	☐	50000.000	51035.893	11505051.50	3.3646	A	3.6
7	☐	100000.00	102713.86	21317487.18	6.7660	A	1.0
8	☐	500000.00	499324.68	104414736.2	32.8705	A	1.8

$$y = 6.5819\text{E-}005 * x + 0.0055$$

$$R = 1.0000$$

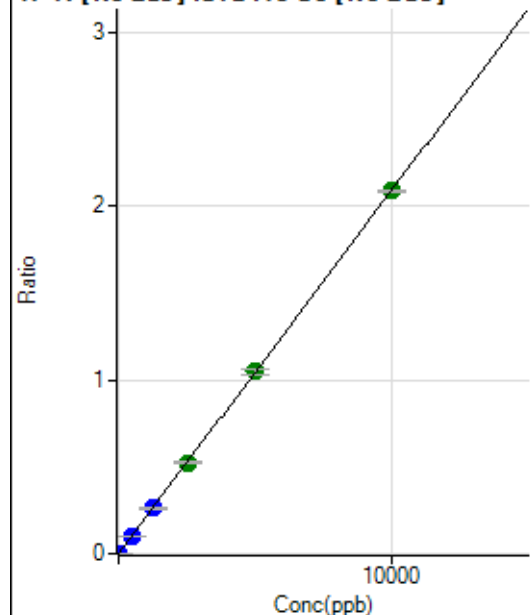
$$DL = 3.642$$

$$BEC = 82.85$$

Weight: <None>

Min Conc: <None>

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	105.56	0.0000	P	22.0
2	☐	5.000	5.077	4137.27	0.0011	P	0.4
3	☐	500.000	493.416	389611.89	0.1032	P	1.7
4	☐	1250.000	1245.438	952683.43	0.2605	P	0.8
5	☐	2500.000	2505.666	1866931.06	0.5240	A	1.4
6	☐	5000.000	5017.859	3588362.34	1.0494	A	3.4
7	☐	10000.000	9990.554	6582391.36	2.0892	A	0.6
8	☐			553.35	0.0002	P	9.1

$$y = 2.0912\text{E-}004 * x + 2.7646\text{E-}005$$

$$R = 1.0000$$

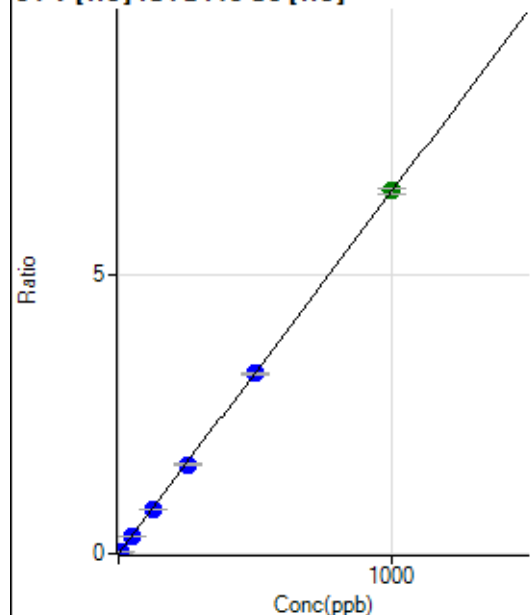
$$DL = 0.08721$$

$$BEC = 0.1322$$

Weight: <None>

Min Conc: <None>

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	8.89	0.0000	P	78.0
2	☐	5.000	4.934	10430.36	0.0321	P	0.5
3	☐	50.000	48.643	102557.18	0.3166	P	1.2
4	☐	125.000	123.239	250790.26	0.8020	P	1.3
5	☐	250.000	246.717	493893.32	1.6055	P	1.4
6	☐	500.000	497.555	952752.91	3.2379	P	1.0
7	☐	1000.000	1002.332	1777412.77	6.5227	A	1.9
8	☐			893.37	0.0032	P	3.8

$$y = 0.0065 * x + 2.7301\text{E-}005$$

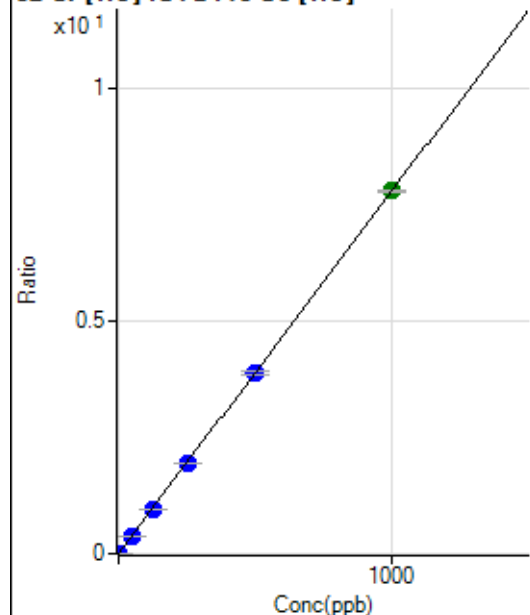
$$R = 1.0000$$

$$DL = 0.009814$$

$$BEC = 0.004195$$

Weight: <None>

Min Conc: <None>

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1201.17	0.0037	P	5.1
2	☐	2.000	2.012	6271.36	0.0193	P	3.8
3	☐	50.000	49.304	125270.45	0.3867	P	1.3
4	☐	125.000	122.755	299355.08	0.9573	P	0.2
5	☐	250.000	247.761	593219.37	1.9284	P	1.0
6	☐	500.000	498.537	1140635.95	3.8765	P	1.4
7	☐	1000.000	1001.607	2121386.04	7.7845	A	0.6
8	☐			19541.67	0.0690	P	1.0

$$y = 0.0078 * x + 0.0037$$

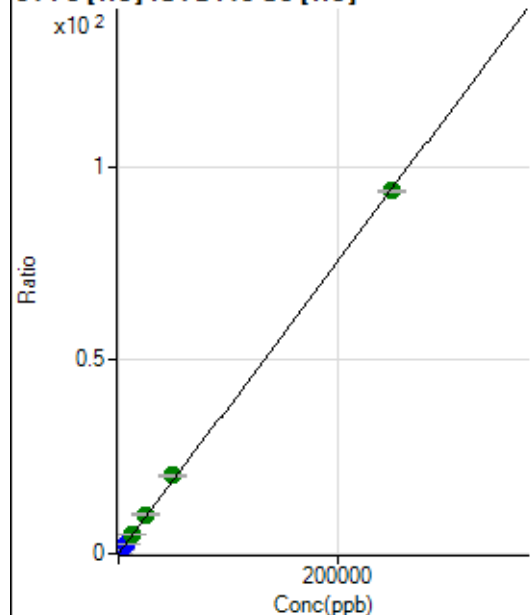
$$R = 1.0000$$

$$DL = 0.07272$$

$$BEC = 0.4751$$

Weight: <None>

Min Conc: <None>

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1568.99	0.0048	P	7.4
2	☐	50.000	56.115	8419.10	0.0259	P	1.6
3	☐	2500.000	2742.264	335956.18	1.0370	P	0.6
4	☐	6250.000	6908.157	814634.75	2.6051	P	0.8
5	☐	12500.000	13190.443	1528819.66	4.9699	A	1.5
6	☐	25000.000	26972.962	2988908.22	10.1578	A	1.3
7	☐	50000.000	53784.965	5518323.01	20.2502	A	2.2
8	☐	250000.00	248992.31	26564302.10	93.7287	A	0.8

$$y = 3.7641E-004 * x + 0.0048$$

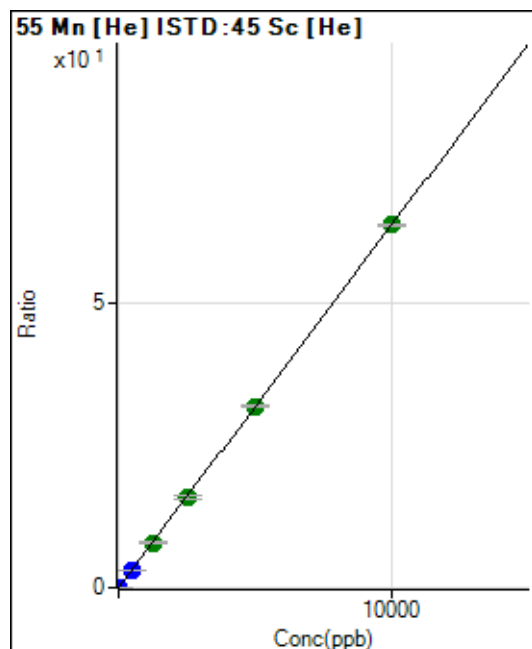
$$R = 0.9999$$

$$DL = 2.852$$

$$BEC = 12.81$$

Weight: <None>

Min Conc: <None>



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	610.02	0.0019	P	3.1
2	☐	1.000	0.948	2571.36	0.0079	P	2.8
3	☐	500.000	495.911	1025909.66	3.1669	P	0.8
4	☐	1250.000	1237.067	2469314.06	7.8971	A	2.3
5	☐	2500.000	2489.794	4888173.05	15.8923	A	2.8
6	☐	5000.000	4990.933	9373438.54	31.8551	A	1.0
7	☐	10000.000	10008.906	17408297.24	63.8809	A	0.4
8	☐			10135.73	0.0358	P	2.2

$$y = 0.0064 * x + 0.0019$$

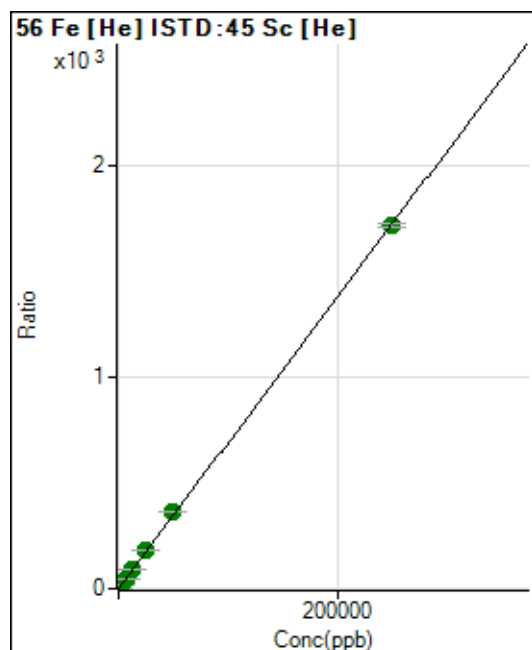
$$R = 1.0000$$

$$DL = 0.02749$$

$$BEC = 0.2937$$

Weight: <None>

Min Conc: <None>



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	12906.75	0.0397	P	0.9
2	☐	50.000	53.518	132449.38	0.4081	P	0.6
3	☐	2500.000	2570.238	5744739.92	17.7344	A	1.9
4	☐	6250.000	6534.228	14079560.90	45.0244	A	0.9
5	☐	12500.000	13191.628	27946925.14	90.8571	A	2.4
6	☐	25000.000	26226.192	53141304.21	180.5932	A	0.8
7	☐	50000.000	53091.972	99621009.62	365.5499	A	0.8
8	☐	250000.00	249216.59	486269157.2	1,715.764	A	1.2

$$y = 0.0069 * x + 0.0397$$

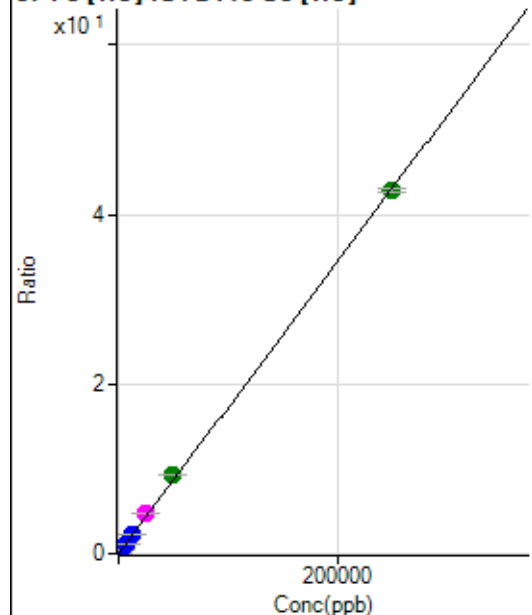
$$R = 0.9999$$

$$DL = 0.1488$$

$$BEC = 5.76$$

Weight: <None>

Min Conc: <None>

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	1277.71	0.0039	P	2.3
2	☐	50.000	58.724	4550.20	0.0140	P	2.8
3	☐	2500.000	2698.975	151536.96	0.4678	P	1.0
4	☐	6250.000	6763.585	364713.22	1.1663	P	0.5
5	☐	12500.000	13655.721	723142.62	2.3508	P	1.2
6	☐	25000.000	27183.601	1375975.61	4.6756	M	0.7
7	☐	50000.000	53733.883	2517759.83	9.2385	A	1.1
8	☐	250000.00	248962.24	12127978.29	42.7899	A	0.9

$$y = 1.7186\text{E-}004 * x + 0.0039$$

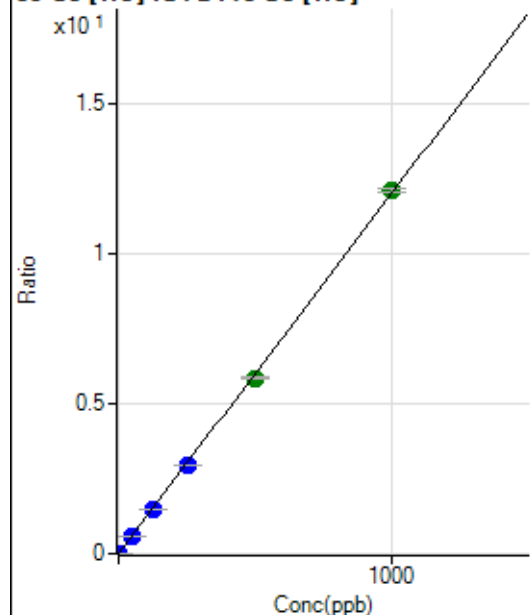
$$R = 0.9999$$

$$DL = 1.587$$

$$BEC = 22.84$$

Weight: <None>

Min Conc: <None>

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	67.78	0.0002	P	49.2
2	☐	1.000	1.048	4152.84	0.0128	P	3.2
3	☐	50.000	48.667	189421.14	0.5847	P	1.0
4	☐	125.000	122.121	458750.92	1.4670	P	1.2
5	☐	250.000	245.391	906709.28	2.9475	P	1.3
6	☐	500.000	488.290	1725854.73	5.8649	A	0.4
7	☐	1000.000	1007.434	3297376.41	12.1002	A	1.0
8	☐			7087.29	0.0250	P	1.0

$$y = 0.0120 * x + 2.0820\text{E-}004$$

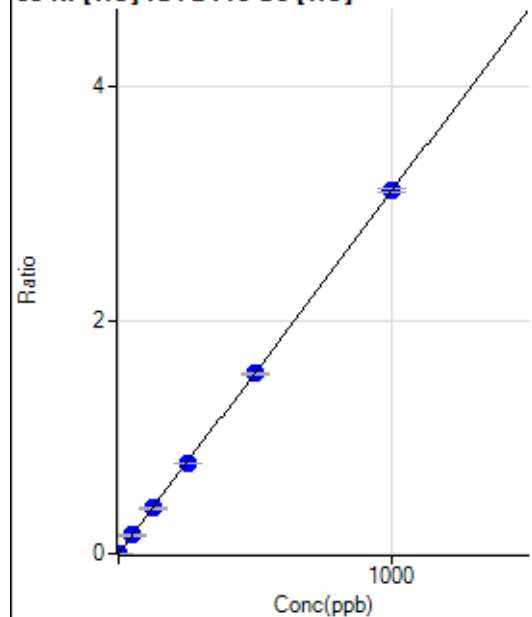
$$R = 0.9999$$

$$DL = 0.02559$$

$$BEC = 0.01733$$

Weight: <None>

Min Conc: <None>

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	267.78	0.0008	P	5.7
2	☐	1.000	0.978	1251.18	0.0039	P	3.5
3	☐	50.000	50.315	50802.61	0.1568	P	1.2
4	☐	125.000	124.828	121292.33	0.3879	P	1.7
5	☐	250.000	248.940	237683.48	0.7727	P	1.7
6	☐	500.000	497.414	454047.02	1.5431	P	1.4
7	☐	1000.000	1001.564	846491.84	3.1062	P	1.1
8	☐			5423.26	0.0191	P	2.5

$$y = 0.0031 * x + 8.2280E-004$$

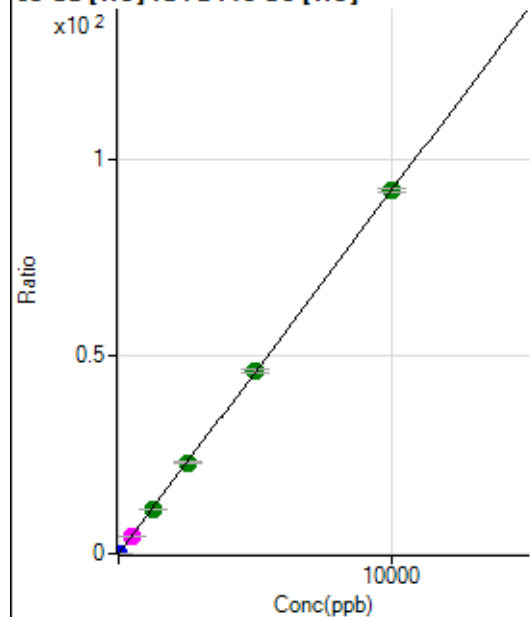
$$R = 1.0000$$

$$DL = 0.04534$$

$$BEC = 0.2654$$

Weight: <None>

Min Conc: <None>

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	1333.41	0.0041	P	0.3
2	☐	2.000	1.877	6940.56	0.0214	P	1.6
3	☐	500.000	497.272	1485236.04	4.5849	M	1.1
4	☐	1250.000	1230.391	3545534.18	11.3382	A	0.8
5	☐	2500.000	2491.915	7062202.60	22.9592	A	2.1
6	☐	5000.000	5032.440	13641377.16	46.3621	A	1.7
7	☐	10000.000	9988.389	25075296.02	92.0154	A	1.2
8	☐			4247.31	0.0150	P	5.0

$$y = 0.0092 * x + 0.0041$$

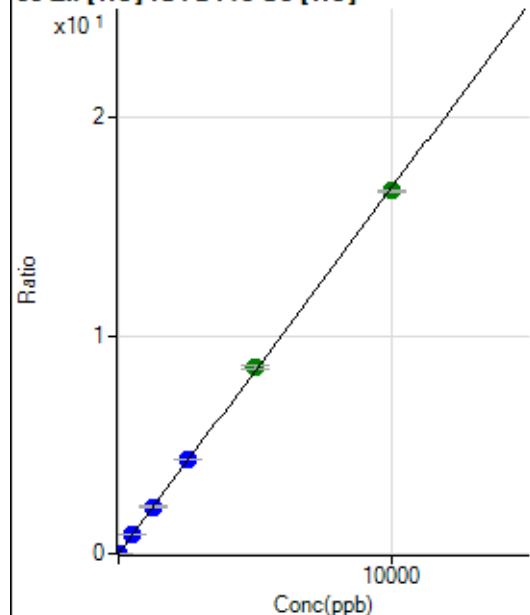
$$R = 1.0000$$

$$DL = 0.004564$$

$$BEC = 0.4447$$

Weight: <None>

Min Conc: <None>

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	2440.22	0.0075	P	8.4
2	☐	5.000	4.562	4914.19	0.0151	P	1.2
3	☐	500.000	515.529	282211.78	0.8712	P	1.2
4	☐	1250.000	1283.844	674938.27	2.1583	P	0.5
5	☐	2500.000	2580.128	1332007.87	4.3300	P	1.3
6	☐	5000.000	5108.865	2520529.32	8.5664	A	1.8
7	☐	10000.000	9920.529	4531206.67	16.6275	A	0.4
8	☐			6678.22	0.0236	P	2.2

$$y = 0.0017 * x + 0.0075$$

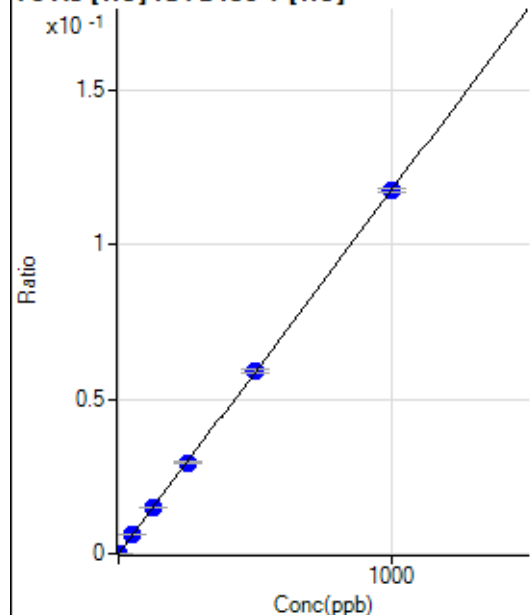
$$R = 0.9999$$

$$DL = 1.123$$

$$BEC = 4.475$$

Weight: <None>

Min Conc: <None>

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	10.00	0.0000	P	57.4
2	☐	1.000	1.076	354.45	0.0001	P	7.7
3	☐	50.000	50.737	15936.47	0.0060	P	1.2
4	☐	125.000	125.161	37863.92	0.0147	P	0.9
5	☐	250.000	250.071	75251.93	0.0294	P	1.3
6	☐	500.000	503.508	143822.24	0.0593	P	1.5
7	☐	1000.000	998.171	264859.77	0.1175	P	1.1
8	☐			335.56	0.0001	P	10.9

$$y = 1.1770E-004 * x + 3.6924E-006$$

$$R = 1.0000$$

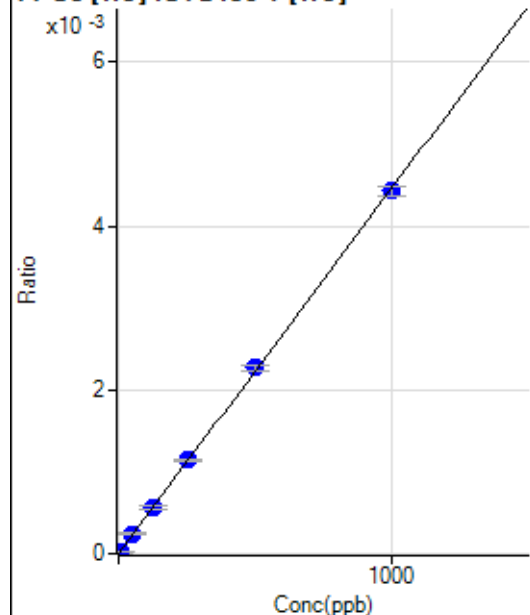
$$DL = 0.05398$$

$$BEC = 0.03137$$

Weight: <None>

Min Conc: <None>

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	1.11	0.0000	P	173.
2	☐	5.000	5.423	66.67	0.0000	P	32.2
3	☐	50.000	53.786	640.02	0.0002	P	8.0
4	☐	125.000	125.873	1441.20	0.0006	P	7.1
5	☐	250.000	256.295	2920.31	0.0011	P	0.9
6	☐	500.000	509.079	5504.41	0.0023	P	3.5
7	☐	1000.000	993.586	9979.02	0.0044	P	2.4
8	☐			14.44	0.0000	P	80.6

$$y = 4.4556\text{E-}006 * x + 4.1116\text{E-}007$$

$$R = 0.9999$$

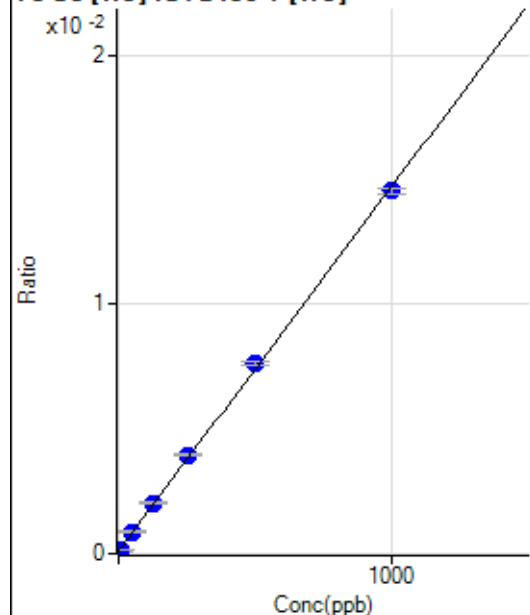
$$DL = 0.4795$$

$$BEC = 0.09228$$

Weight: <None>

Min Conc: <None>

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	294.45	0.0001	P	5.4
2	☐	5.000	5.042	496.68	0.0002	P	9.8
3	☐	50.000	51.968	2314.65	0.0009	P	4.7
4	☐	125.000	131.679	5219.86	0.0020	P	3.8
5	☐	250.000	262.742	10086.85	0.0039	P	1.7
6	☐	500.000	514.671	18505.01	0.0076	P	1.3
7	☐	1000.000	988.545	32787.53	0.0145	P	1.5
8	☐			333.34	0.0001	P	10.0

$$y = 1.4603\text{E-}005 * x + 1.0913\text{E-}004$$

$$R = 0.9997$$

$$DL = 1.213$$

$$BEC = 7.473$$

Weight: <None>

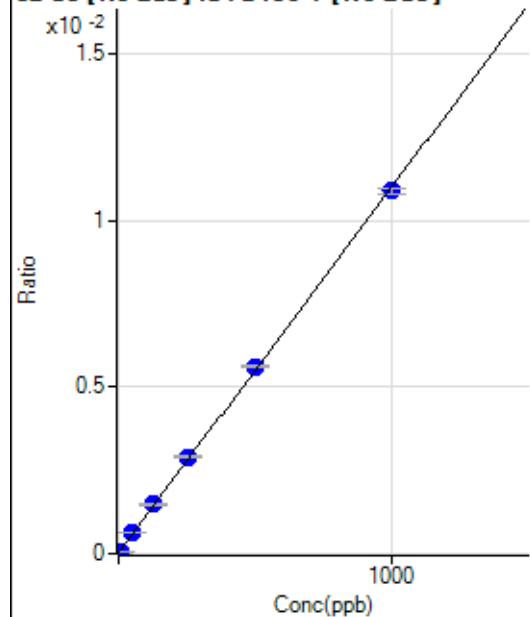
Min Conc: <None>

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			7553.12		P	3.0
2	☐			7509.78		P	3.0
3	☐			7450.83		P	1.5
4	☐			7269.65		P	1.2
5	☐			7390.81		P	0.2
6	☐			7429.72		P	4.6
7	☐			7478.63		P	3.8
8	☐			7886.64		P	5.4

81 Br [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			126.67		P	16.0
2	☐			105.56		P	28.3
3	☐			105.56		P	11.1
4	☐			110.00		P	37.2
5	☐			117.78		P	13.4
6	☐			93.34		P	40.6
7	☐			93.34		P	32.7
8	☐			223.34		P	6.5

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	284.09	0.0000	P	18.3
2	☐	5.000	5.037	824.28	0.0001	P	4.5
3	☐	50.000	53.912	6047.32	0.0006	P	1.6
4	☐	125.000	132.331	14115.35	0.0015	P	1.2
5	☐	250.000	262.599	27236.01	0.0029	P	1.7
6	☐	500.000	510.452	51414.85	0.0056	P	1.0
7	☐	1000.000	990.512	91730.12	0.0109	P	1.7
8	☐			399.52	0.0000	P	8.9

$$y = 1.0963E-005 * x + 2.8883E-005$$

R = 0.9998

DL = 1.447

BEC = 2.635

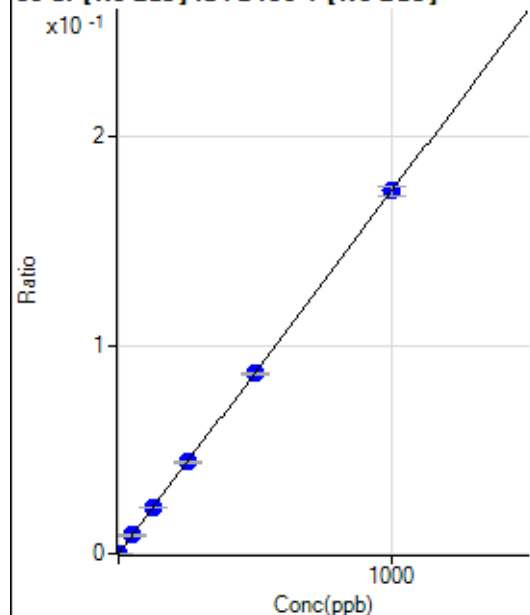
Weight: <None>

Min Conc: <None>

83 Kr [No Gas] No available calibration points

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			423.34		P	11.7
2	☐			392.23		P	8.6
3	☐			450.01		P	9.7
4	☐			414.45		P	2.5
5	☐			406.67		P	3.8
6	☐			397.79		P	8.3
7	☐			398.90		P	5.7
8	☐			395.57		P	10.7

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	644.47	0.0001	P	4.7
2	☐	1.000	0.979	2313.54	0.0002	P	4.3
3	☐	50.000	50.318	86037.42	0.0088	P	1.2
4	☐	125.000	125.757	209338.76	0.0219	P	1.3
5	☐	250.000	251.876	411070.80	0.0439	P	0.9
6	☐	500.000	496.764	790543.67	0.0865	P	1.1
7	☐	1000.000	1001.039	1467717.79	0.1742	P	2.5
8	☐			19250.48	0.0023	P	2.5

$$y = 1.7397E-004 * x + 6.5643E-005$$

$$R = 1.0000$$

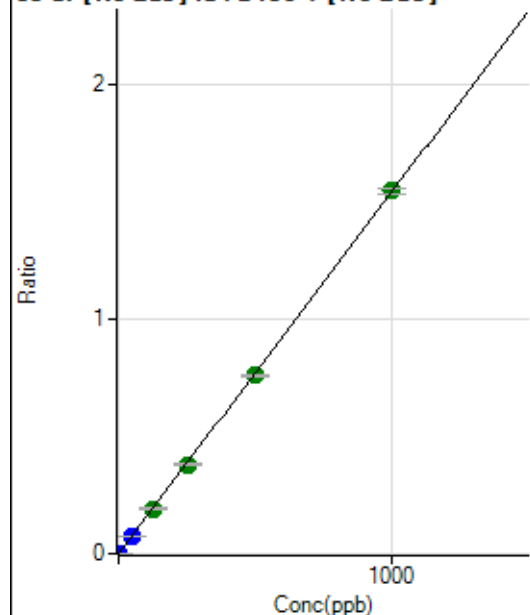
$$DL = 0.05292$$

$$BEC = 0.3773$$

Weight: <None>

Min Conc: <None>

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	93.33	0.0000	P	21.2
2	☐	1.000	0.985	14963.24	0.0015	P	0.6
3	☐	50.000	49.877	749255.14	0.0768	P	1.5
4	☐	125.000	124.488	1828569.85	0.1917	A	1.8
5	☐	250.000	246.865	3560622.27	0.3801	A	0.7
6	☐	500.000	494.328	6957134.89	0.7611	A	1.0
7	☐	1000.000	1003.690	13020162.31	1.5454	A	1.7
8	☐			161239.81	0.0194	P	0.8

$$y = 0.0015 * x + 9.4831E-006$$

$$R = 1.0000$$

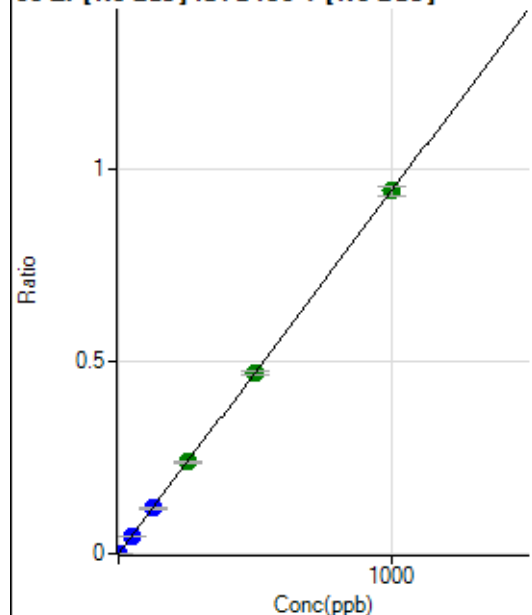
$$DL = 0.003919$$

$$BEC = 0.006159$$

Weight: <None>

Min Conc: <None>

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	442.25	0.0000	P	17.1
2	☐	1.000	0.989	9606.55	0.0010	P	1.9
3	☐	50.000	49.649	458056.15	0.0470	P	1.9
4	☐	125.000	124.938	1126620.30	0.1181	P	1.2
5	☐	250.000	252.241	2232829.69	0.2384	A	1.6
6	☐	500.000	498.475	4305544.03	0.4710	A	1.2
7	☐	1000.000	1000.228	7962323.21	0.9451	A	2.9
8	☐			7302.99	0.0009	P	2.6

$$y = 9.4486\text{E-}004 * x + 4.5199\text{E-}005$$

$$R = 1.0000$$

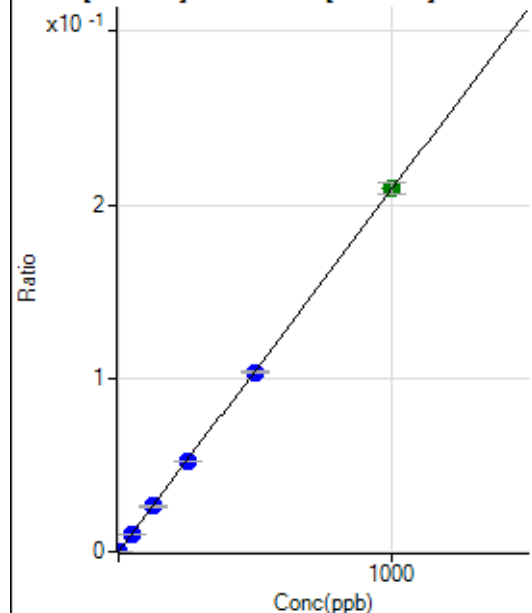
$$DL = 0.0245$$

$$BEC = 0.04784$$

Weight: <None>

Min Conc: <None>

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	71.11	0.0000	P	28.6
2	☐	1.000	1.019	2155.74	0.0002	P	4.7
3	☐	50.000	49.534	100920.39	0.0103	P	2.1
4	☐	125.000	125.306	249551.66	0.0262	P	0.9
5	☐	250.000	250.339	489435.18	0.0522	P	1.3
6	☐	500.000	495.819	945853.27	0.1035	P	1.3
7	☐	1000.000	1001.991	1761675.23	0.2091	A	3.1
8	☐			1604.55	0.0002	P	12.0

$$y = 2.0869\text{E-}004 * x + 7.2790\text{E-}006$$

$$R = 1.0000$$

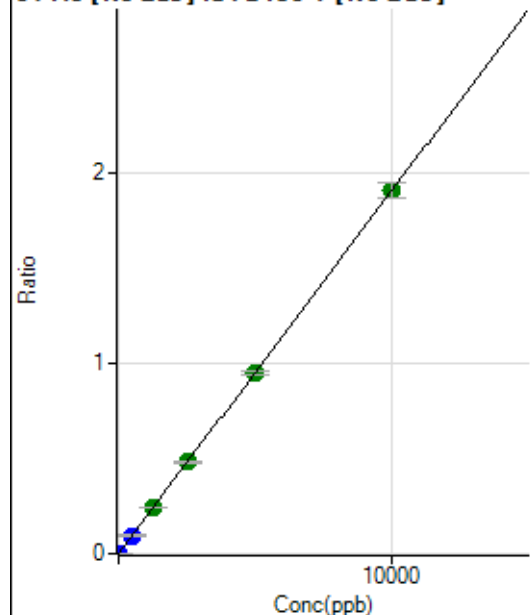
$$DL = 0.02996$$

$$BEC = 0.03488$$

Weight: <None>

Min Conc: <None>

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	203.34	0.0000	P	21.2
2	☐	5.000	5.976	11378.96	0.0012	P	3.2
3	☐	500.000	500.204	931113.23	0.0955	P	2.2
4	☐	1250.000	1252.455	2280197.79	0.2390	A	0.8
5	☐	2500.000	2519.387	4502774.00	0.4807	A	1.1
6	☐	5000.000	4979.801	8684400.43	0.9501	A	1.8
7	☐	10000.000	10004.935	16080135.73	1.9088	A	4.2
8	☐			5657.82	0.0007	P	2.3

$$y = 1.9079E-004 * x + 2.0794E-005$$

R = 1.0000

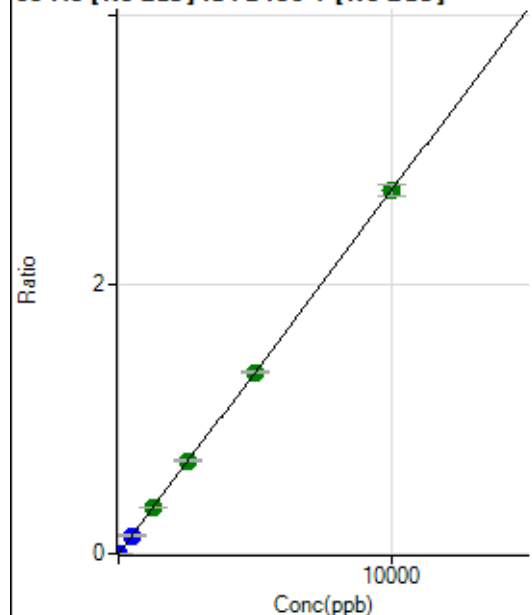
DL = 0.0693

BEC = 0.109

Weight: <None>

Min Conc: <None>

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	157.78	0.0000	P	8.3
2	☐	5.000	5.010	13405.13	0.0014	P	1.3
3	☐	500.000	501.157	1319081.94	0.1352	P	1.9
4	☐	1250.000	1269.076	3266368.53	0.3424	A	1.5
5	☐	2500.000	2561.571	6473634.62	0.6911	A	0.9
6	☐	5000.000	4984.909	12292986.07	1.3449	A	1.1
7	☐	10000.000	9989.711	22704733.00	2.6951	A	3.1
8	☐			4916.43	0.0006	P	2.4

$$y = 2.6978E-004 * x + 1.6073E-005$$

R = 1.0000

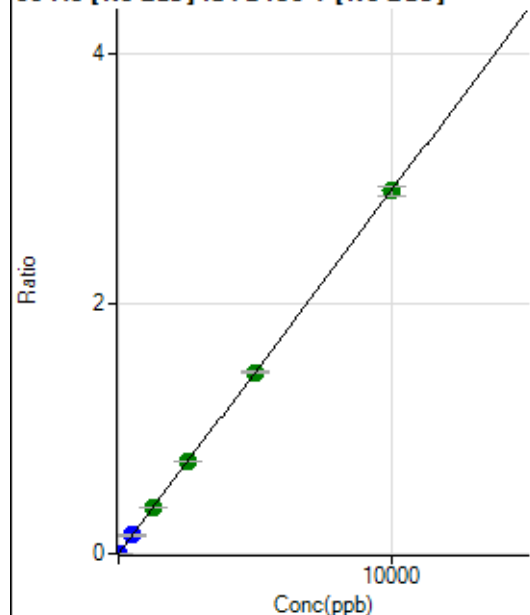
DL = 0.01487

BEC = 0.05958

Weight: <None>

Min Conc: <None>

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	198.89	0.0000	P	21.8
2	☐	5.000	5.230	15114.57	0.0015	P	1.4
3	☐	500.000	505.421	1434595.76	0.1471	P	1.7
4	☐	1250.000	1262.254	3502982.73	0.3672	A	2.2
5	☐	2500.000	2525.051	6881507.74	0.7346	A	0.6
6	☐	5000.000	5001.527	13300224.53	1.4551	A	1.3
7	☐	10000.000	9991.171	24488268.52	2.9067	A	2.4
8	☐			7615.38	0.0009	P	2.8

$$y = 2.9092\text{E-}004 * x + 2.0241\text{E-}005$$

$$R = 1.0000$$

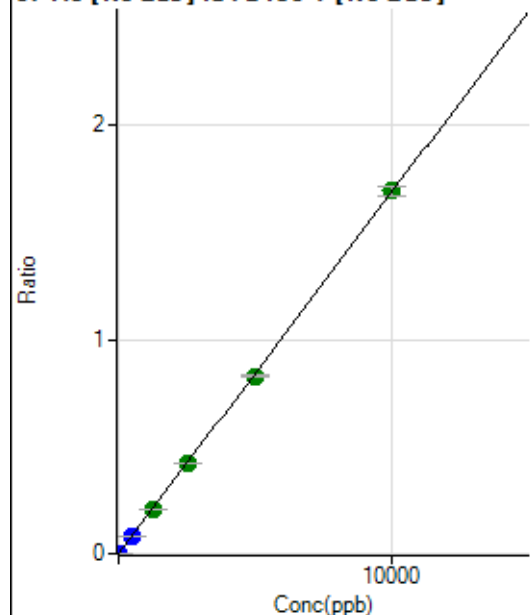
$$DL = 0.04552$$

$$BEC = 0.06958$$

Weight: <None>

Min Conc: <None>

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	113.33	0.0000	P	27.7
2	☐	5.000	5.029	8431.42	0.0009	P	1.0
3	☐	500.000	498.505	820726.74	0.0841	P	1.7
4	☐	1250.000	1241.958	1999483.04	0.2096	A	1.2
5	☐	2500.000	2501.643	3954509.63	0.4222	A	1.9
6	☐	5000.000	4914.082	7579942.25	0.8292	A	0.8
7	☐	10000.000	10043.628	14278959.65	1.6948	A	2.4
8	☐			3033.68	0.0004	P	5.2

$$y = 1.6875\text{E-}004 * x + 1.1505\text{E-}005$$

$$R = 0.9999$$

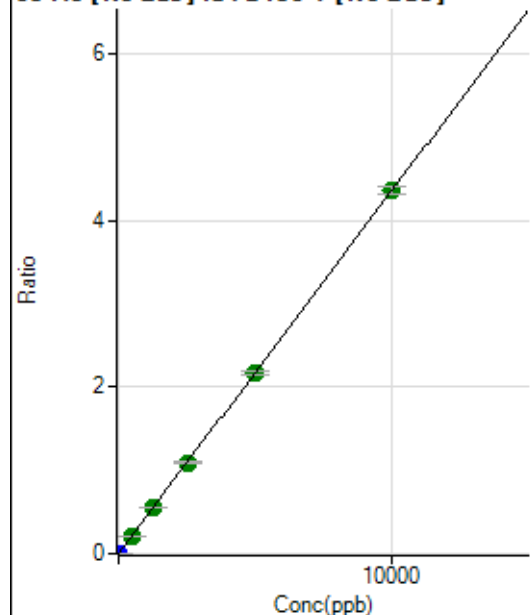
$$DL = 0.05662$$

$$BEC = 0.06818$$

Weight: <None>

Min Conc: <None>

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	231.11	0.0000	P	5.0
2	☐	5.000	5.020	21666.16	0.0022	P	2.4
3	☐	500.000	492.646	2093699.54	0.2146	A	1.4
4	☐	1250.000	1255.733	5218649.50	0.5470	A	1.3
5	☐	2500.000	2503.034	10212827.00	1.0903	A	1.4
6	☐	5000.000	4986.441	19853334.43	2.1720	A	1.4
7	☐	10000.000	10005.672	36718354.73	4.3583	A	2.2
8	☐			7719.89	0.0009	P	2.8

$$y = 4.3558\text{E-}004 * x + 2.3553\text{E-}005$$

$$R = 1.0000$$

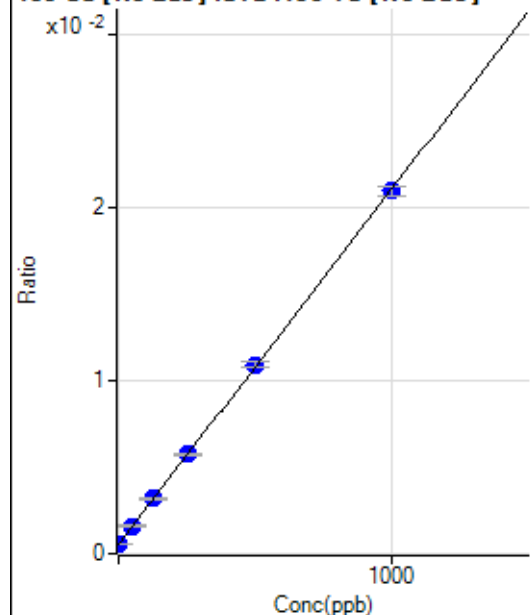
$$DL = 0.008083$$

$$BEC = 0.05407$$

Weight: <None>

Min Conc: <None>

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	3541.58	0.0005	P	3.0
2	☐	1.000	2.535	3841.66	0.0006	P	2.8
3	☐	50.000	52.129	10470.52	0.0016	P	4.0
4	☐	125.000	129.191	20501.28	0.0032	P	3.8
5	☐	250.000	253.377	36565.00	0.0057	P	0.9
6	☐	500.000	505.989	67164.60	0.0109	P	3.3
7	☐	1000.000	995.530	120094.85	0.0210	P	2.5
8	☐			3072.58	0.0006	P	2.3

$$y = 2.0541\text{E-}005 * x + 5.3816\text{E-}004$$

$$R = 1.0000$$

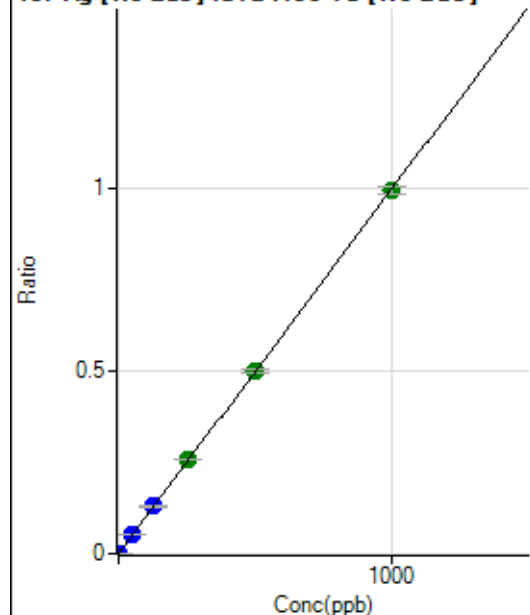
$$DL = 2.355$$

$$BEC = 26.2$$

Weight: <None>

Min Conc: <None>

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	74.45	0.0000	P	22.1
2	☐	1.000	1.114	7297.46	0.0011	P	6.3
3	☐	50.000	51.967	337178.00	0.0518	P	2.2
4	☐	125.000	129.389	828607.96	0.1290	P	1.6
5	☐	250.000	257.523	1634596.21	0.2567	A	0.7
6	☐	500.000	503.409	3084080.89	0.5018	A	1.9
7	☐	1000.000	995.768	5680654.64	0.9927	A	2.0
8	☐			1016.71	0.0002	P	11.0

$$y = 9.9688\text{E-}004 * x + 1.1333\text{E-}005$$

$$R = 1.0000$$

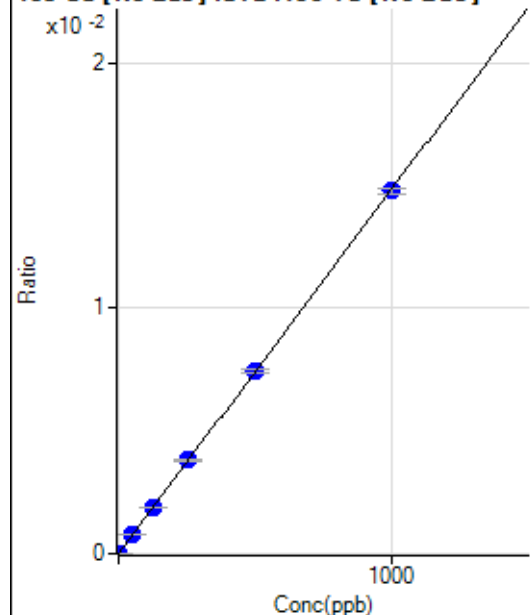
$$DL = 0.007553$$

$$BEC = 0.01137$$

Weight: <None>

Min Conc: <None>

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	12.22	0.0000	P	42.5
2	☐	1.000	0.963	105.56	0.0000	P	46.5
3	☐	50.000	52.462	5082.05	0.0008	P	1.4
4	☐	125.000	128.006	12221.92	0.0019	P	1.4
5	☐	250.000	258.042	24405.06	0.0038	P	2.1
6	☐	500.000	502.856	45898.07	0.0075	P	2.1
7	☐	1000.000	996.063	84655.61	0.0148	P	1.3
8	☐			75.56	0.0000	P	6.8

$$y = 1.4849\text{E-}005 * x + 1.8636\text{E-}006$$

$$R = 1.0000$$

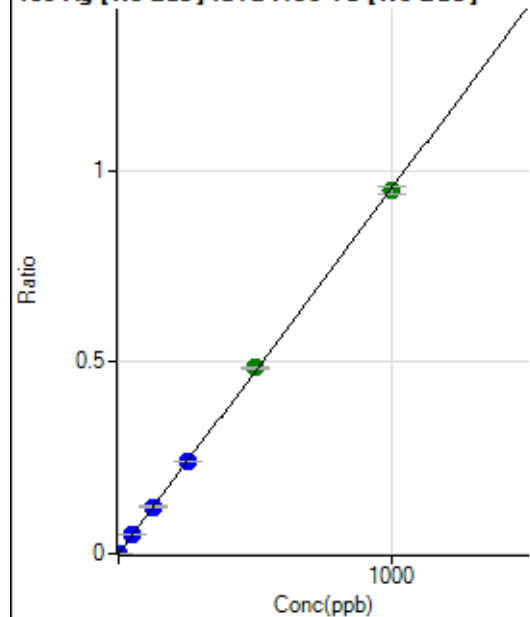
$$DL = 0.16$$

$$BEC = 0.1255$$

Weight: <None>

Min Conc: <None>

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	58.89	0.0000	P	27.9
2	☐	1.000	1.109	6928.39	0.0011	P	4.1
3	☐	50.000	51.541	319362.37	0.0491	P	1.9
4	☐	125.000	128.615	786567.29	0.1224	P	1.1
5	☐	250.000	253.823	1538527.69	0.2416	P	0.8
6	☐	500.000	508.593	2976376.41	0.4842	A	0.4
7	☐	1000.000	994.219	5416512.56	0.9465	A	2.0
8	☐			990.05	0.0002	P	5.5

$$y = 9.5200\text{E-}004 * x + 8.9485\text{E-}006$$

$$R = 0.9999$$

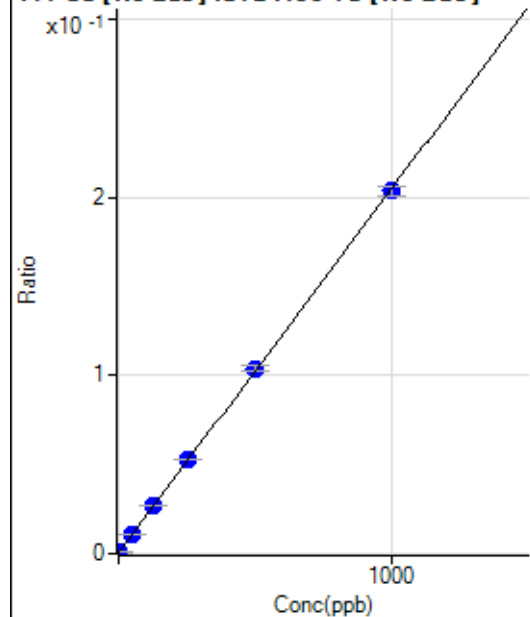
$$DL = 0.007873$$

$$BEC = 0.0094$$

Weight: <None>

Min Conc: <None>

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	2483.89	0.0004	P	3.0
2	☐	1.000	1.069	3876.45	0.0006	P	4.7
3	☐	50.000	52.090	71711.91	0.0110	P	1.9
4	☐	125.000	129.865	172860.53	0.0269	P	1.6
5	☐	250.000	256.802	336476.43	0.0528	P	0.2
6	☐	500.000	506.117	637681.53	0.1038	P	3.1
7	☐	1000.000	994.528	1164977.27	0.2036	P	2.4
8	☐			2735.71	0.0005	P	2.4

$$y = 2.0431\text{E-}004 * x + 3.7743\text{E-}004$$

$$R = 0.9999$$

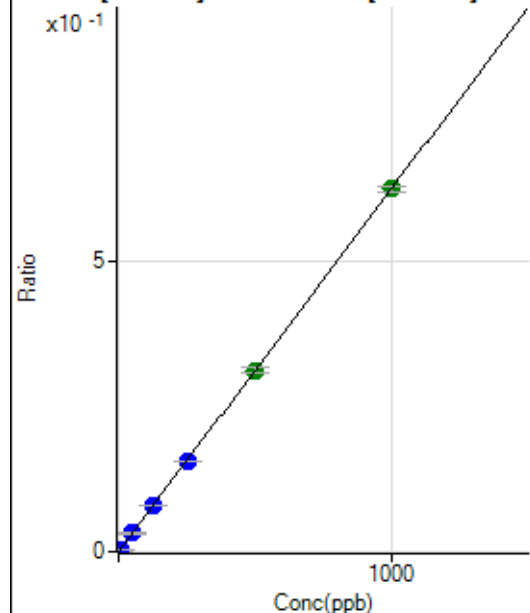
$$DL = 0.1654$$

$$BEC = 1.847$$

Weight: <None>

Min Conc: <None>

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	758.91	0.0001	P	3.9
2	☐	5.000	5.020	21094.44	0.0032	P	4.4
3	☐	50.000	50.329	204688.94	0.0315	P	2.4
4	☐	125.000	125.339	502131.28	0.0782	P	0.9
5	☐	250.000	249.520	990053.08	0.1555	P	0.8
6	☐	500.000	500.378	1915252.28	0.3117	A	3.6
7	☐	1000.000	999.872	3564145.02	0.6228	A	1.6
8	☐			6701.63	0.0012	P	2.0

$$y = 6.2274\text{E-}004 * x + 1.1536\text{E-}004$$

$$R = 1.0000$$

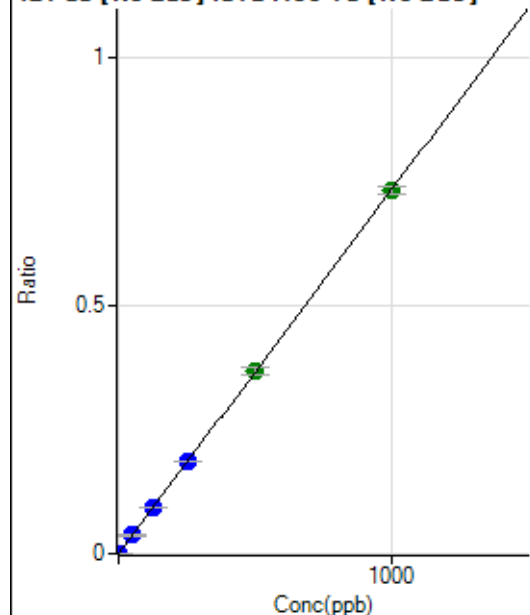
$$DL = 0.0214$$

$$BEC = 0.1852$$

Weight: <None>

Min Conc: <None>

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	31.11	0.0000	P	13.3
2	☐	2.000	2.124	10175.92	0.0016	P	4.4
3	☐	50.000	50.531	241386.51	0.0371	P	1.9
4	☐	125.000	126.241	595231.93	0.0927	P	1.2
5	☐	250.000	252.479	1179911.73	0.1853	P	0.8
6	☐	500.000	503.315	2269440.16	0.3694	A	4.4
7	☐	1000.000	997.541	4189892.51	0.7322	A	2.1
8	☐			3787.21	0.0007	P	3.8

$$y = 7.3399\text{E-}004 * x + 4.7324\text{E-}006$$

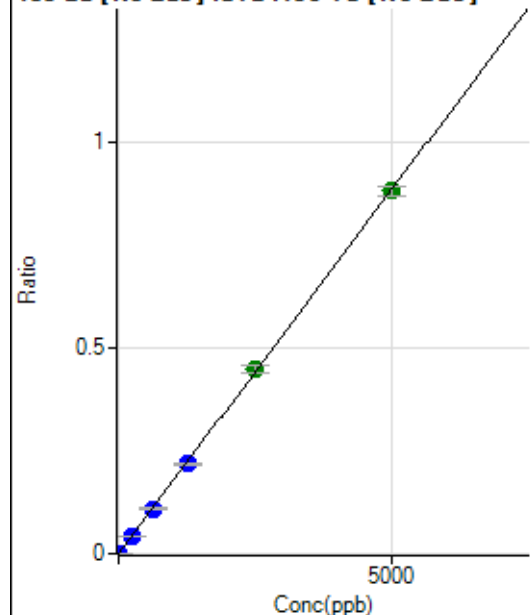
$$R = 1.0000$$

$$DL = 0.002582$$

$$BEC = 0.006448$$

Weight: <None>

Min Conc: <None>

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	23.33	0.0000	P	37.4
2	☐	10.000	10.017	11571.46	0.0018	P	2.7
3	☐	250.000	248.119	286012.10	0.0439	P	1.6
4	☐	625.000	619.133	704431.15	0.1097	P	1.2
5	☐	1250.000	1229.660	1386702.77	0.2178	P	0.6
6	☐	2500.000	2540.448	2764462.42	0.4500	A	3.6
7	☐	5000.000	4985.689	5053301.80	0.8831	A	2.8
8	☐			3218.18	0.0006	P	3.9

$$y = 1.7712\text{E-}004 * x + 3.5401\text{E-}006$$

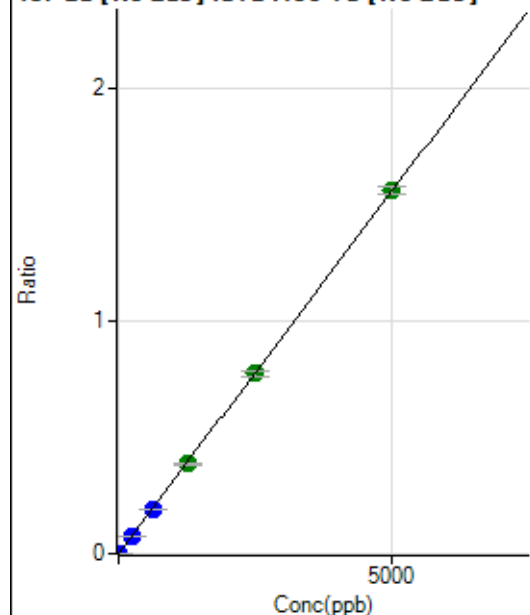
$$R = 0.9999$$

$$DL = 0.02244$$

$$BEC = 0.01999$$

Weight: <None>

Min Conc: <None>

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	33.33	0.0000	P	26.6
2	☐	10.000	9.782	19861.80	0.0031	P	2.6
3	☐	250.000	242.668	491744.72	0.0756	P	2.4
4	☐	625.000	610.637	1221530.25	0.1902	P	0.7
5	☐	1250.000	1237.551	2453657.22	0.3854	A	1.2
6	☐	2500.000	2487.570	4760117.08	0.7746	A	2.5
7	☐	5000.000	5011.490	8930953.69	1.5606	A	2.1
8	☐			5674.54	0.0010	P	3.6

$$y = 3.1141\text{E-}004 * x + 5.0661\text{E-}006$$

$$R = 1.0000$$

$$DL = 0.01297$$

$$BEC = 0.01627$$

Weight: <None>

Min Conc: <None>

150 Nd [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			4.44		P	43.4
2	☐			12.22		P	103.
3	☐			18.89		P	66.8
4	☐			36.67		P	15.7
5	☐			58.89		P	28.5
6	☐			117.78		P	8.2
7	☐			210.00		P	15.3
8	☐			110.00		P	12.1

150 Nd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1.11		P	173.
2	☐			6.67		P	50.0
3	☐			8.89		P	78.1
4	☐			14.44		P	35.3
5	☐			16.66		P	34.6
6	☐			38.89		P	13.1
7	☐			65.56		P	11.7
8	☐			62.22		P	36.5

156 Dy [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			6.67		P	50.0
2	☐			7.78		P	49.5
3	☐			12.22		P	68.7
4	☐			22.22		P	43.3
5	☐			37.78		P	27.0
6	☐			58.89		P	18.2
7	☐			116.67		P	14.8
8	☐			223.34		P	3.0

156 Dy [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1.11		P	173.
2	☐			0.00		P	
3	☐			15.56		P	12.4
4	☐			46.67		P	35.7
5	☐			101.11		P	22.0
6	☐			200.00		P	2.9
7	☐			444.46		P	12.2
8	☐			207.78		P	13.6

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			71.11		P	7.2
2	☐			72.23		P	37.3
3	☐			91.11		P	20.1
4	☐			118.89		P	4.3
5	☐			90.00		P	26.7
6	☐			110.00		P	10.9
7	☐			133.34		P	17.3
8	☐			303.34		P	16.9

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			412.23		P	5.3
2	☐			376.68		P	8.1
3	☐			435.57		P	6.9
4	☐			426.68		P	5.4
5	☐			370.01		P	18.7
6	☐			396.68		P	3.0
7	☐			373.34		P	2.7
8	☐			541.13		P	14.3

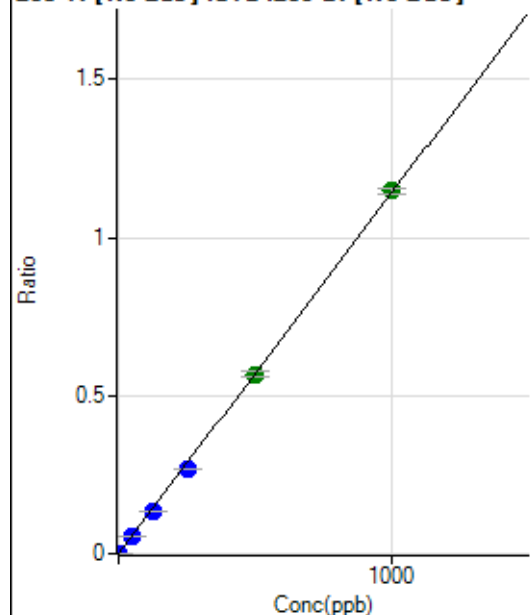
164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			44.45		P	30.3
2	☐			46.67		P	50.0
3	☐			68.89		P	43.9
4	☐			64.44		P	33.3
5	☐			84.44		P	29.1
6	☐			108.89		P	20.8
7	☐			177.78		P	1.1
8	☐			472.23		P	6.4

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			31.11		P	12.4
2	☐			31.11		P	6.2
3	☐			40.00		P	50.7
4	☐			61.11		P	22.7
5	☐			47.78		P	17.6
6	☐			65.56		P	11.7
7	☐			110.00		P	16.9
8	☐			356.67		P	4.7

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	171.11	0.0000	P	15.5
2	☐	1.000	0.953	4624.16	0.0011	P	1.9
3	☐	50.000	46.373	216425.43	0.0529	P	1.3
4	☐	125.000	115.486	539910.95	0.1318	P	0.5
5	☐	250.000	233.406	1066955.89	0.2663	P	1.1
6	☐	500.000	498.477	2154620.56	0.5687	A	3.7
7	☐	1000.000	1006.281	4058166.57	1.1480	A	1.2
8	☐			5799.07	0.0018	P	1.8

$$y = 0.0011 * x + 4.2152E-005$$

$$R = 0.9998$$

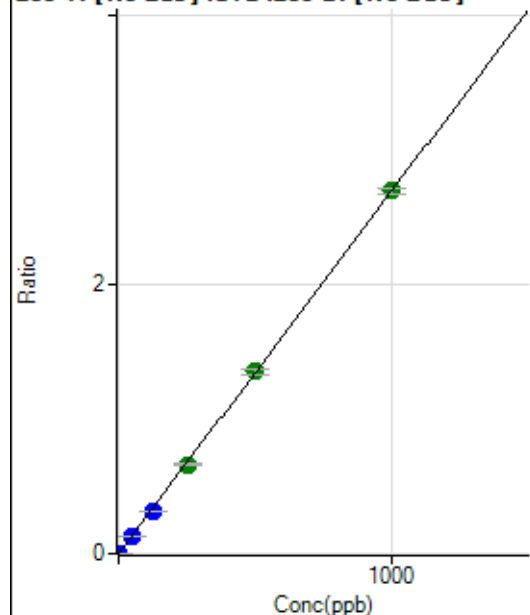
$$DL = 0.01722$$

$$BEC = 0.03695$$

Weight: <None>

Min Conc: <None>

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	368.90	0.0001	P	12.9
2	☐	1.000	1.003	11439.36	0.0028	P	2.4
3	☐	50.000	46.853	516654.22	0.1264	P	1.1
4	☐	125.000	115.225	1272916.41	0.3107	P	0.8
5	☐	250.000	246.116	2658536.25	0.6635	A	0.8
6	☐	500.000	502.146	5129476.59	1.3537	A	2.6
7	☐	1000.000	1001.277	9541691.45	2.6992	A	1.7
8	☐			13681.41	0.0042	P	1.4

$$y = 0.0027 * x + 9.1041E-005$$

$$R = 0.9999$$

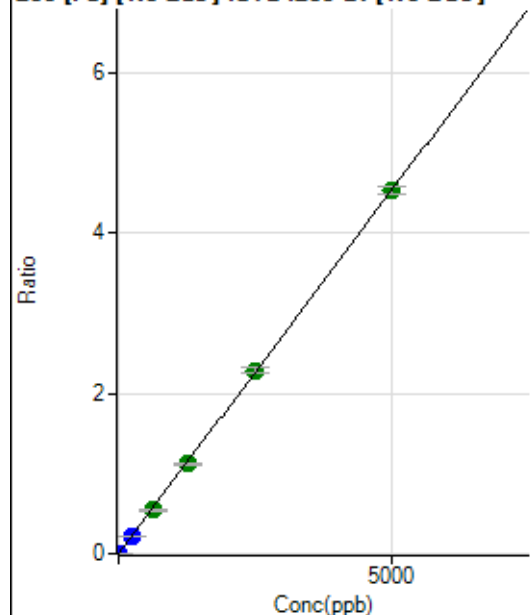
$$DL = 0.0131$$

$$BEC = 0.03377$$

Weight: <None>

Min Conc: <None>

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	315.56	0.0001	P	3.9
2	☐	1.000	0.873	3554.94	0.0009	P	1.3
3	☐	250.000	238.631	884180.27	0.2163	P	0.8
4	☐	625.000	600.282	2228697.38	0.5440	A	1.6
5	☐	1250.000	1235.320	4484339.00	1.1193	A	1.7
6	☐	2500.000	2523.865	8664771.05	2.2868	A	2.5
7	☐	5000.000	4995.396	15998773.65	4.5261	A	2.0
8	☐			4478.55	0.0014	P	2.0

$$y = 9.0605E-004 * x + 7.7675E-005$$

$$R = 1.0000$$

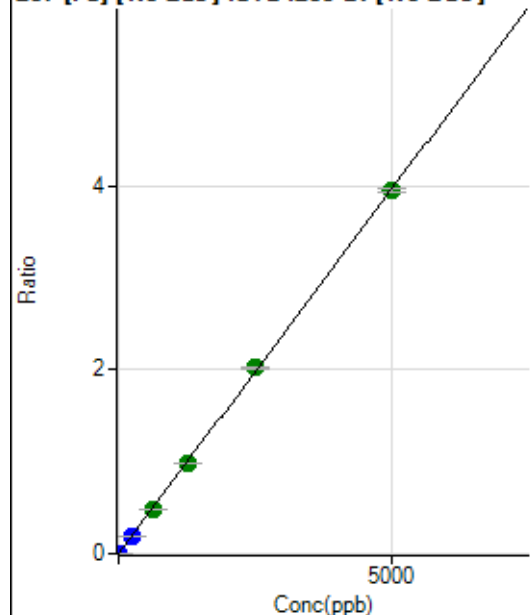
$$DL = 0.01007$$

$$BEC = 0.08573$$

Weight: <None>

Min Conc: <None>

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	242.23	0.0001	P	8.4
2	☐	1.000	0.854	3017.04	0.0007	P	2.5
3	☐	250.000	234.087	759152.04	0.1857	P	1.0
4	☐	625.000	607.339	1973666.12	0.4817	A	1.2
5	☐	1250.000	1241.928	3946198.66	0.9850	A	1.6
6	☐	2500.000	2549.844	7663110.51	2.0223	A	1.8
7	☐	5000.000	4980.099	13961861.18	3.9497	A	1.2
8	☐			3932.84	0.0012	P	0.1

$$y = 7.9308E-004 * x + 5.9732E-005$$

$$R = 0.9999$$

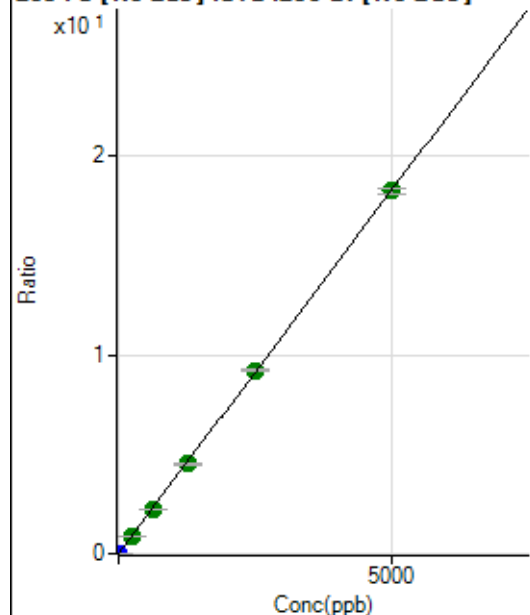
$$DL = 0.01893$$

$$BEC = 0.07532$$

Weight: <None>

Min Conc: <None>

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1175.59	0.0003	P	6.7
2	☐	1.000	0.845	13837.35	0.0034	P	1.1
3	☐	250.000	240.074	3589737.87	0.8782	A	1.6
4	☐	625.000	608.228	9113771.17	2.2245	A	1.4
5	☐	1250.000	1234.644	18090105.57	4.5152	A	0.9
6	☐	2500.000	2525.644	34999722.95	9.2361	A	1.2
7	☐	5000.000	4993.610	64550764.31	18.2610	A	1.3
8	☐			18054.91	0.0055	P	0.8

$$y = 0.0037 * x + 2.8938E-004$$

$$R = 1.0000$$

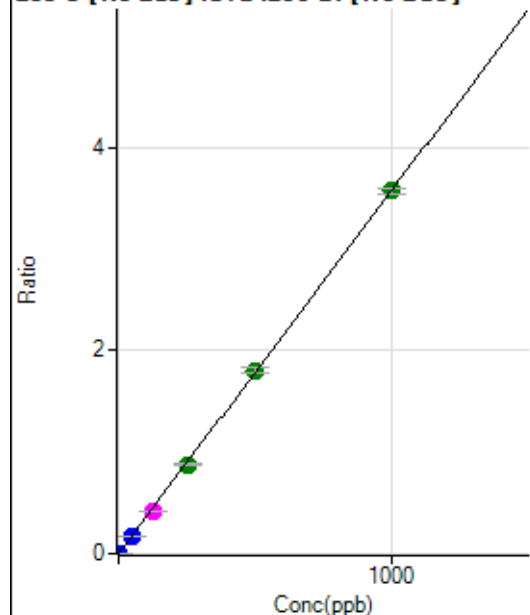
$$DL = 0.01588$$

$$BEC = 0.07913$$

Weight: <None>

Min Conc: <None>

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	31.11	0.0000	P	34.6
2	☐	1.000	0.939	13750.59	0.0034	P	0.7
3	☐	50.000	45.695	666935.17	0.1632	P	1.6
4	☐	125.000	116.581	1705641.62	0.4163	M	3.4
5	☐	250.000	246.291	3523024.46	0.8794	A	1.7
6	☐	500.000	504.804	6829384.55	1.8024	A	2.6
7	☐	1000.000	999.793	12618483.42	3.5698	A	1.8
8	☐			508.90	0.0002	P	11.9

$$y = 0.0036 * x + 7.6967E-006$$

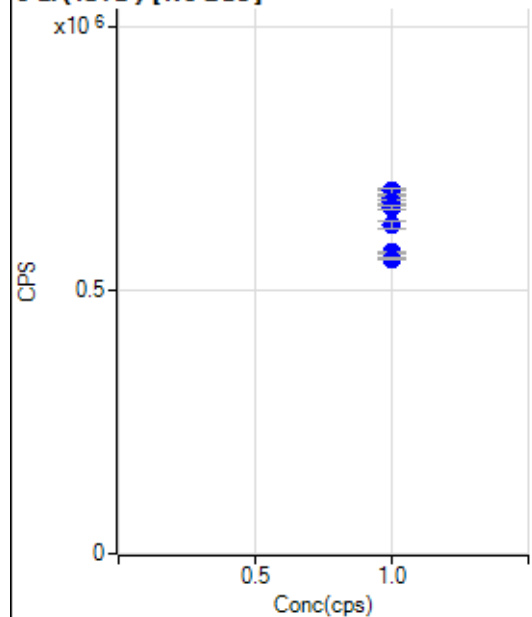
$$R = 0.9999$$

$$DL = 0.002236$$

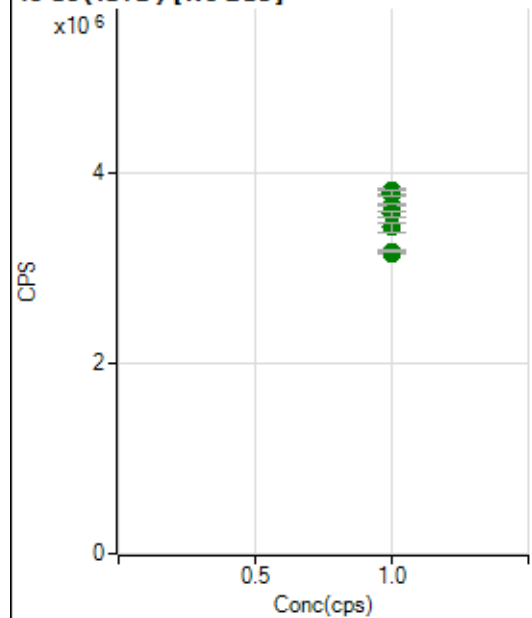
$$BEC = 0.002156$$

Weight: <None>

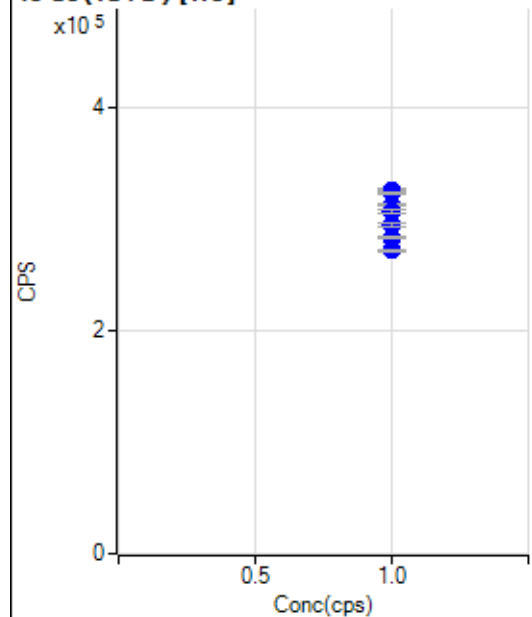
Min Conc: <None>

6 Li (ISTD) [No Gas]

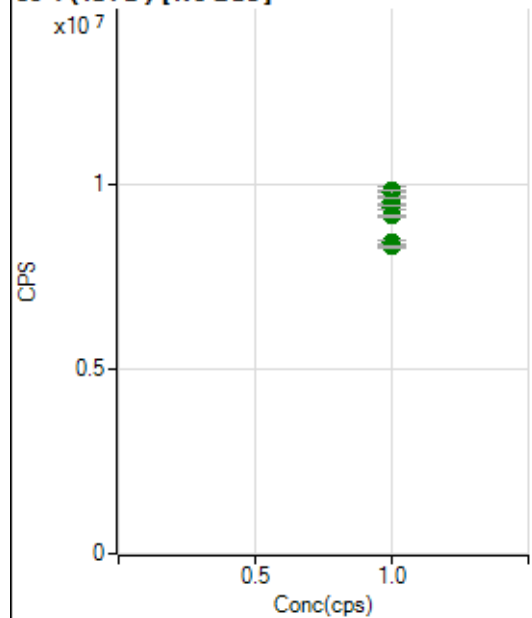
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		674561.72		P	1.1
2	☐	1.000		683509.85		P	1.8
3	☐	1.000		688263.13		P	1.8
4	☐	1.000		668806.77		P	1.1
5	☐	1.000		656715.59		P	0.8
6	☐	1.000		625152.37		P	2.5
7	☐	1.000		571829.05		P	0.6
8	☐	1.000		559626.15		P	1.2

45 Sc (ISTD) [No Gas]

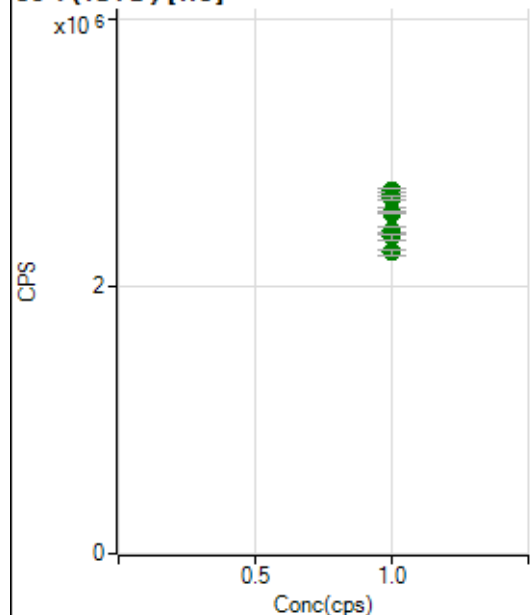
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3808126.89		A	1.8
2	☐	1.000		3797887.34		A	2.4
3	☐	1.000		3775581.75		A	1.6
4	☐	1.000		3657429.70		A	0.6
5	☐	1.000		3563171.58		A	1.3
6	☐	1.000		3421957.14		A	3.1
7	☐	1.000		3150599.43		A	0.5
8	☐	1.000		3176296.38		A	1.0

45 Sc (ISTD) [He]

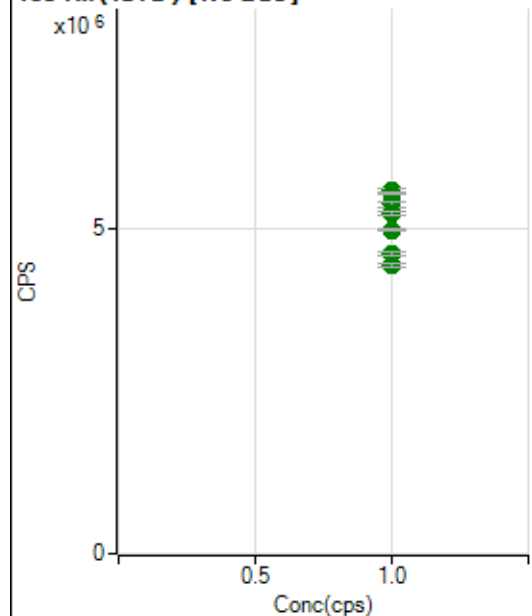
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		325465.83		P	0.1
2	☐	1.000		324568.78		P	1.5
3	☐	1.000		323954.28		P	0.6
4	☐	1.000		312708.78		P	0.6
5	☐	1.000		307649.45		P	1.2
6	☐	1.000		294276.58		P	1.3
7	☐	1.000		272516.30		P	0.7
8	☐	1.000		283424.49		P	0.6

89 Y (ISTD) [No Gas]

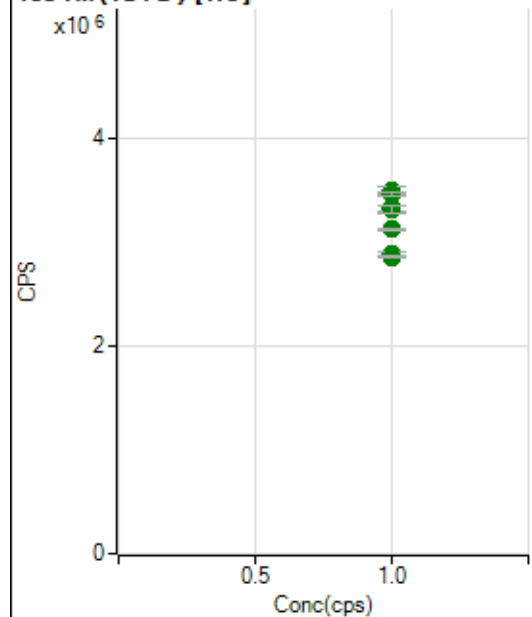
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		9810907.49		A	2.4
2	☐	1.000		9802598.95		A	0.7
3	☐	1.000		9756909.86		A	1.8
4	☐	1.000		9541549.65		A	2.1
5	☐	1.000		9367982.29		A	1.2
6	☐	1.000		9140917.02		A	0.4
7	☐	1.000		8425965.64		A	0.8
8	☐	1.000		8297147.23		A	0.2

89 Y(ISTD) [He]

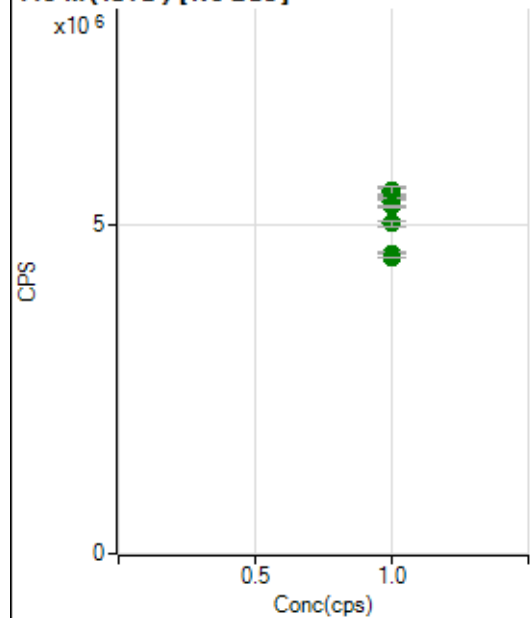
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2698067.88		A	1.0
2	☐	1.000		2717760.72		A	0.9
3	☐	1.000		2666958.26		A	1.2
4	☐	1.000		2569847.22		A	1.8
5	☐	1.000		2556501.35		A	0.9
6	☐	1.000		2426954.77		A	1.3
7	☐	1.000		2254566.60		A	2.0
8	☐	1.000		2370413.99		A	1.4

103 Rh(ISTD) [No Gas]

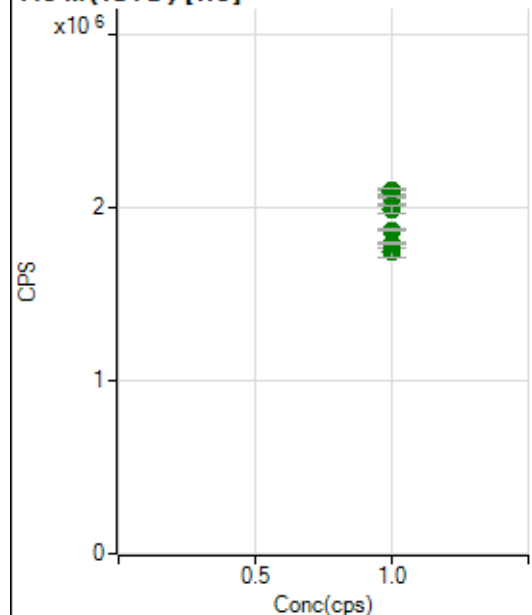
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5573186.62		A	1.6
2	☐	1.000		5571853.25		A	1.9
3	☐	1.000		5537020.54		A	0.6
4	☐	1.000		5372378.39		A	1.5
5	☐	1.000		5229819.37		A	1.3
6	☐	1.000		4973194.47		A	0.9
7	☐	1.000		4605071.18		A	1.0
8	☐	1.000		4426410.42		A	1.0

103 Rh (ISTD) [He]

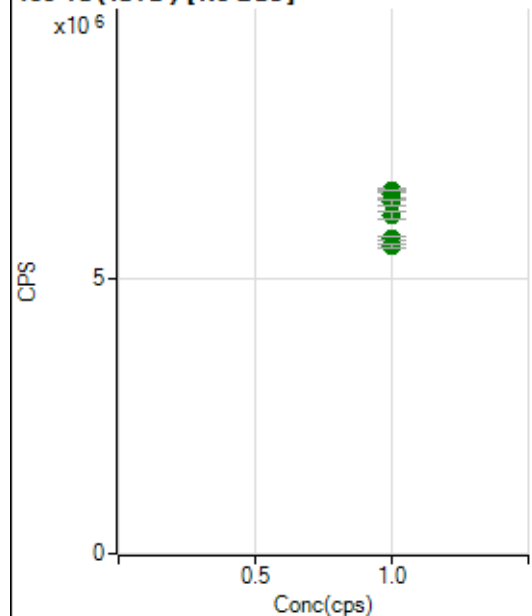
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3492501.82		A	2.6
2	☐	1.000		3495835.33		A	2.0
3	☐	1.000		3459786.20		A	1.2
4	☐	1.000		3329608.18		A	1.5
5	☐	1.000		3313665.61		A	1.9
6	☐	1.000		3129016.17		A	0.6
7	☐	1.000		2887409.85		A	1.7
8	☐	1.000		2861513.50		A	1.1

115 In (ISTD) [No Gas]

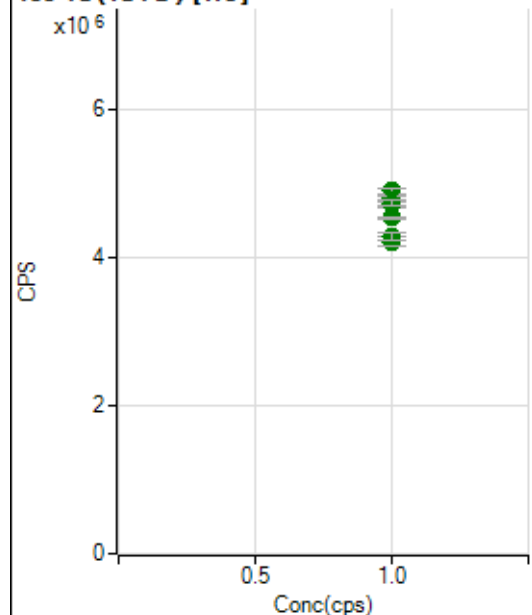
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5513616.67		A	1.7
2	☐	1.000		5483881.19		A	2.1
3	☐	1.000		5487926.28		A	3.5
4	☐	1.000		5350681.28		A	2.4
5	☐	1.000		5275231.78		A	0.9
6	☐	1.000		5015472.58		A	1.5
7	☐	1.000		4567453.43		A	0.4
8	☐	1.000		4497550.47		A	0.3

115 In (ISTD) [He]

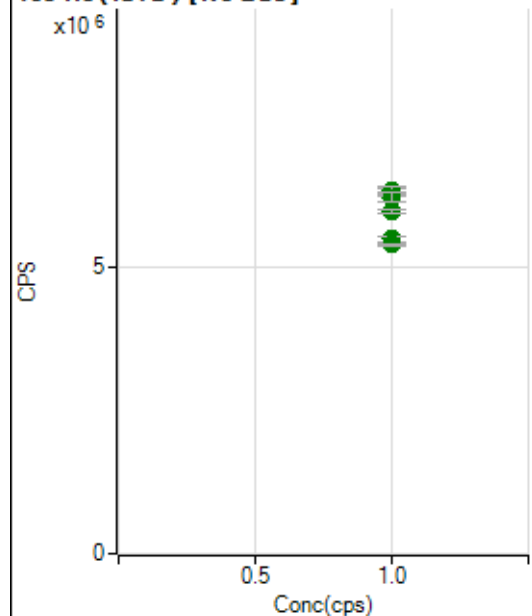
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2084662.84		A	1.1
2	☐	1.000		2095993.42		A	1.3
3	☐	1.000		2059141.71		A	0.7
4	☐	1.000		2011269.98		A	0.6
5	☐	1.000		1991166.17		A	1.9
6	☐	1.000		1869491.61		A	0.9
7	☐	1.000		1738906.52		A	2.7
8	☐	1.000		1789540.60		A	0.7

159 Tb (ISTD) [No Gas]

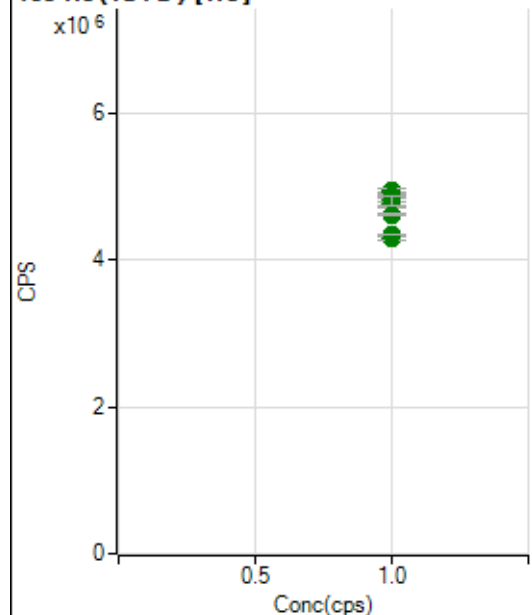
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6580168.10		A	1.1
2	☐	1.000		6511663.23		A	2.5
3	☐	1.000		6509222.12		A	2.3
4	☐	1.000		6423718.03		A	0.4
5	☐	1.000		6367268.17		A	1.4
6	☐	1.000		6147220.39		A	2.3
7	☐	1.000		5723298.32		A	1.2
8	☐	1.000		5576092.97		A	0.9

159 Tb (ISTD) [He]

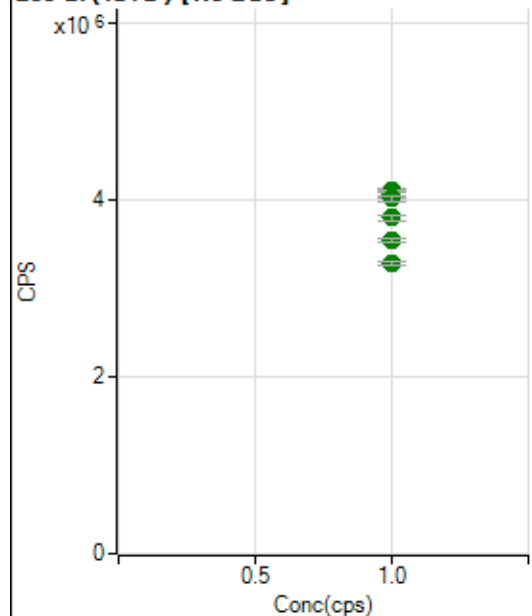
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4798086.77		A	1.1
2	☐	1.000		4891201.91		A	1.6
3	☐	1.000		4777807.53		A	1.4
4	☐	1.000		4714234.90		A	2.2
5	☐	1.000		4728568.02		A	1.5
6	☐	1.000		4524743.68		A	1.0
7	☐	1.000		4209427.79		A	2.7
8	☐	1.000		4278420.77		A	2.2

165 Ho (ISTD) [No Gas]

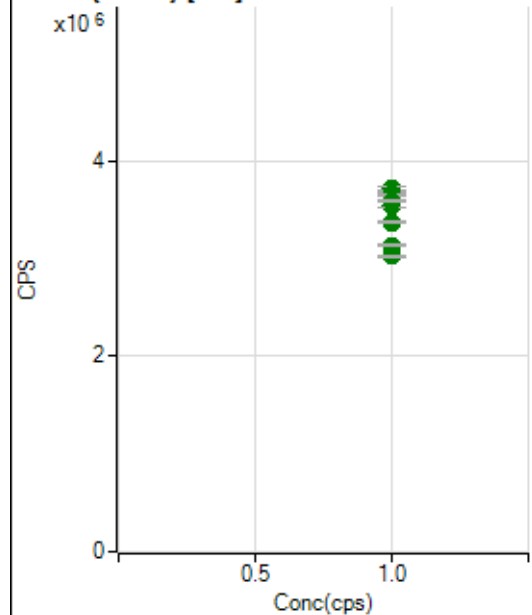
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6341256.08		A	2.0
2	☐	1.000		6352198.24		A	1.8
3	☐	1.000		6345507.20		A	2.3
4	☐	1.000		6233480.12		A	2.5
5	☐	1.000		6243780.53		A	2.3
6	☐	1.000		5994779.63		A	1.6
7	☐	1.000		5510395.16		A	1.6
8	☐	1.000		5405612.21		A	0.3

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4936827.67		A	1.1
2	☐	1.000		4926438.37		A	1.7
3	☐	1.000		4864083.23		A	0.6
4	☐	1.000		4753594.13		A	1.5
5	☐	1.000		4807796.53		A	2.8
6	☐	1.000		4611269.76		A	0.5
7	☐	1.000		4285394.17		A	1.2
8	☐	1.000		4343332.92		A	0.4

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4060171.36		A	2.3
2	☐	1.000		4093019.66		A	0.3
3	☐	1.000		4088378.58		A	2.0
4	☐	1.000		4096786.64		A	0.9
5	☐	1.000		4006746.99		A	1.2
6	☐	1.000		3789802.76		A	1.3
7	☐	1.000		3535188.73		A	1.0
8	☐	1.000		3280366.65		A	1.3

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3685701.02		A	0.7
2	☐	1.000		3714893.41		A	1.2
3	☐	1.000		3657778.31		A	0.5
4	☐	1.000		3549472.65		A	1.4
5	☐	1.000		3587891.61		A	0.5
6	☐	1.000		3373965.05		A	0.4
7	☐	1.000		3136916.41		A	0.7
8	☐	1.000		3023639.43		A	1.0

US EPA Tune Check Report

Operator Name Jaswal

Acq/Data Batch D:\Agilent\ICPMH\1\DATA\P7092325-MS.b

Acq. Date-Time 2025-09-23 14:17:34

Report Comment ---

Instrument Name G8403A JP14410463

[No Gas]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
9		6132	61319.33			0.669	5.000
24		53674	536744.95			0.297	5.000
25		7399	73987.38			0.471	5.000
26		8931	89311.71			0.327	5.000
59		78807	788071.01			0.263	5.000
113		8521	85206.41			0.135	5.000
115		98590	985904.38			0.727	5.000
206		18645	186453.71			0.412	5.000
207		16326	163259.40			0.325	5.000
208		39643	396428.60			0.209	5.000
220		0	3.20			17.815	

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

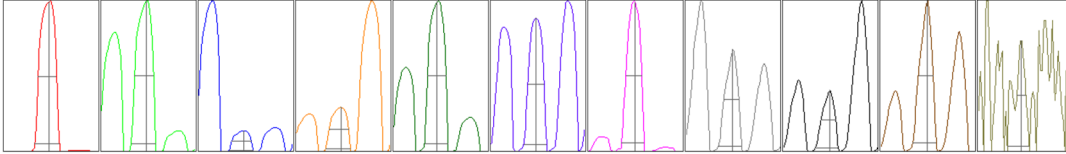
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	6153	6158	6139	6060	6149
24	53659	53496	53930	53611	53676
25	7353	7378	7444	7409	7411
26	8890	8958	8958	8914	8936
59	78702	78547	78896	79099	78791
113	8525	8514	8528	8504	8532
115	98862	98673	99529	97585	98303
206	18649	18592	18774	18583	18628
207	16324	16311	16417	16292	16286
208	39632	39523	39631	39749	39680

US EPA Tune Check Report

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

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	10817.20	8.95	8.90 - 9.10	
24	93365.93	23.95	23.90 - 24.10	
25	12443.56	24.95	24.90 - 25.10	
26	14596.14	25.95	25.90 - 26.10	
59	138323.17	58.90	58.90 - 59.10	
113	16995.39	112.95	112.90 - 113.10	
115	197800.74	115.00	114.90 - 115.10	
206	41481.73	206.00	205.90 - 206.10	
207	35819.00	207.00	206.90 - 207.10	
208	88248.73	208.00	207.90 - 208.10	
220	0.55	219.90	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.59	0.776	0.900	
24	0.61	0.777	0.900	
25	0.63	0.754	0.900	
26	0.63	0.787	0.900	
59	0.60	0.741	0.900	
113	0.51	0.734	0.900	
115	0.50	0.726	0.900	
206	0.48	0.738	0.900	
207	0.47	0.717	0.900	
208	0.46	0.752	0.900	
220	0.28	0.687		

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode --- Nebulizer Gas 0.87 L/min Dilution Gas 0.40 L/min

US EPA Tune Check Report

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

Lens Parameters

Extract 1	0.0 V	Omega Lens	7.6 V	Deflect	14.2 V
Extract 2	-160.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-80 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	---	OctP RF	190 V		

QP Parameters

Mass Gain	139	Axis Gain	0.9977	QP Bias	-3.0 V
Mass Offset	129	Axis Offset	0.08		

Hardware Settings

Torch

Torch H	-1.8 mm	Torch V	0.1 mm
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EM

Discriminator	4.8 mV	Analog HV	2293 V	Pulse HV	1208 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		25408	254081.63			0.814	
89		22290	222898.70			1.074	
205		23169	231692.61			1.312	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	25740	25444	25382	25227	25247
89	22573	22350	22438	22079	22008
205	23538	23179	23351	23038	22741

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.87 L/min	Dilution Gas	0.40 L/min
RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.80 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	9.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	8.7 V	Deflect	3.2 V
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US EPA Tune Check Report

Extract 2	-165.0 V	Cell Entrance	-40 V	Plate Bias	-60 V
Omega Bias	-75 V	Cell Exit	-60 V		
Cell Parameters					
Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	3.9 mL/min	OctP Bias	-18.0 V		
H2 Flow	---	OctP RF	200 V		
QP Parameters					
Mass Gain	139	Axis Gain	0.9977	QP Bias	-13.0 V
Mass Offset	129	Axis Offset	0.08		
Hardware Settings					
Torch					
Torch H	-1.8 mm	Torch V	0.1 mm		
EM					
Discriminator	4.8 mV	Analog HV	2293 V	Pulse HV	1208 V