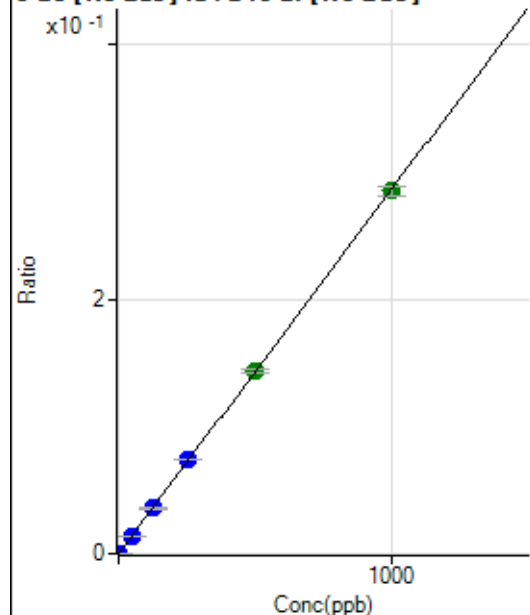


Batch Folder: D:\Agilent\ICPMH\1\DATA\P8091621MS.b\
Analysis File: P8091621MS.batch.bin
DA Date-Time: 2021-11-02 15:33:28
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	006CALB.d	S00	2021-09-16 12:16:28
2	007CALS.d	S02	2021-09-16 12:19:32
3	008CALS.d	S03	2021-09-16 12:22:37
4	009CALS.d	S04	2021-09-16 12:25:41
5	010CALS.d	S05	2021-09-16 12:28:46
6	011CALS.d	S06	2021-09-16 12:31:50
7	013CALS.d	S07	2021-09-16 12:37:58
8	014CALS.d	S08	2021-09-16 12:41:04

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	29.32	0.0000	P	9.4
2	☐	1.000	1.018	3279.06	0.0003	P	3.0
3	☐	50.000	49.634	160500.44	0.0142	P	1.0
4	☐	125.000	125.282	396700.03	0.0359	P	2.6
5	☐	250.000	258.909	787496.92	0.0741	P	0.5
6	☐	500.000	503.195	1521599.84	0.1441	A	2.1
7	☐	1000.000	996.158	2967702.51	0.2852	A	2.4
8	☐			312.61	0.0000	P	19.7

$$y = 2.8634E-004 * x + 2.6376E-006$$

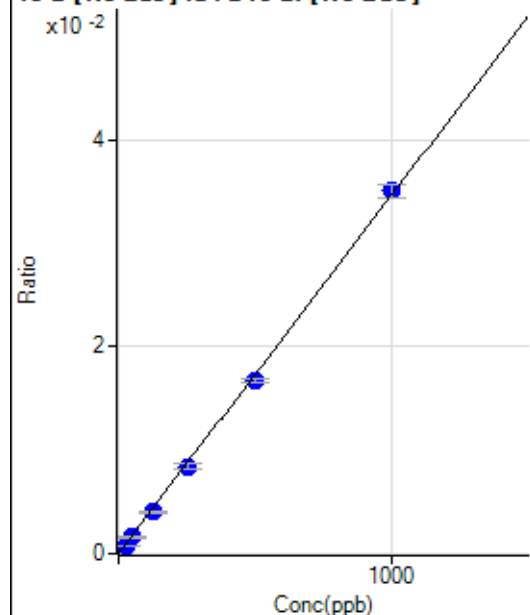
$$R = 0.9999$$

$$DL = 0.002593$$

$$BEC = 0.009212$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	407.93	0.0000	P	6.4
2	☐	25.000	21.618	8758.23	0.0008	P	3.9
3	☐	50.000	45.448	18170.29	0.0016	P	5.0
4	☐	125.000	114.836	44321.56	0.0040	P	6.6
5	☐	250.000	242.856	89642.06	0.0084	P	5.1
6	☐	500.000	482.630	176818.76	0.0167	P	1.6
7	☐	1000.000	1012.054	364729.92	0.0351	P	3.8
8	☐			31361.17	0.0032	P	13.2

$$y = 3.4605E-005 * x + 3.6637E-005$$

$$R = 0.9997$$

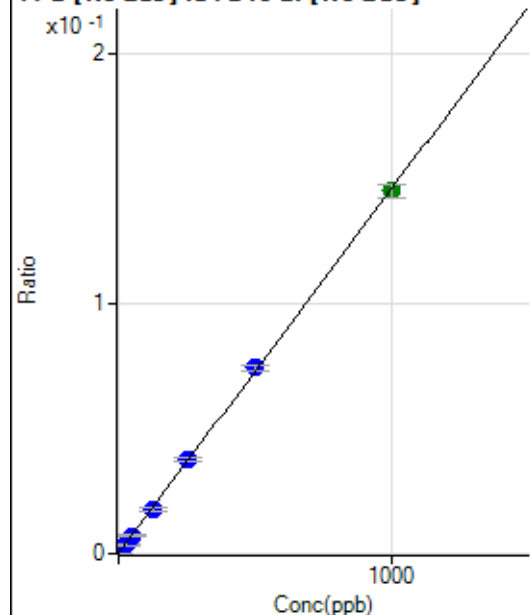
$$DL = 0.2033$$

$$BEC = 1.059$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1727.10	0.0002	P	2.1
2	☐	25.000	22.796	38788.69	0.0035	P	2.9
3	☐	50.000	48.256	81116.13	0.0072	P	3.9
4	☐	125.000	120.172	195131.52	0.0177	P	6.7
5	☐	250.000	256.895	398990.02	0.0376	P	5.3
6	☐	500.000	508.619	784210.20	0.0742	P	2.8
7	☐	1000.000	994.713	1508664.78	0.1450	A	3.9
8	☐			139820.56	0.0142	P	13.0

$$y = 1.4564E-004 * x + 1.5518E-004$$

$$R = 0.9999$$

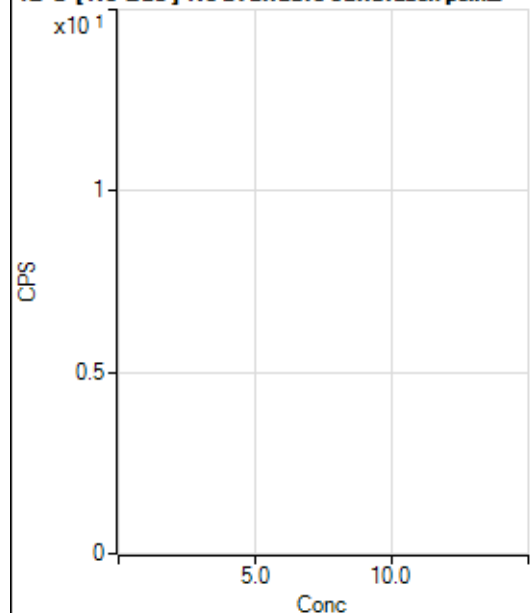
$$DL = 0.06642$$

$$BEC = 1.066$$

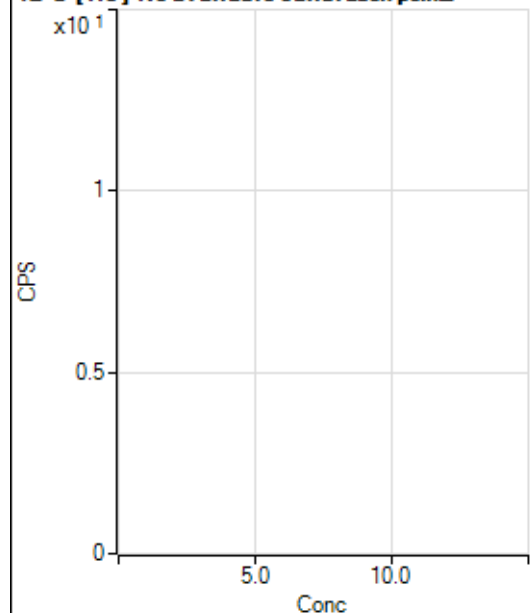
Weight: <None>

Min Conc: 0

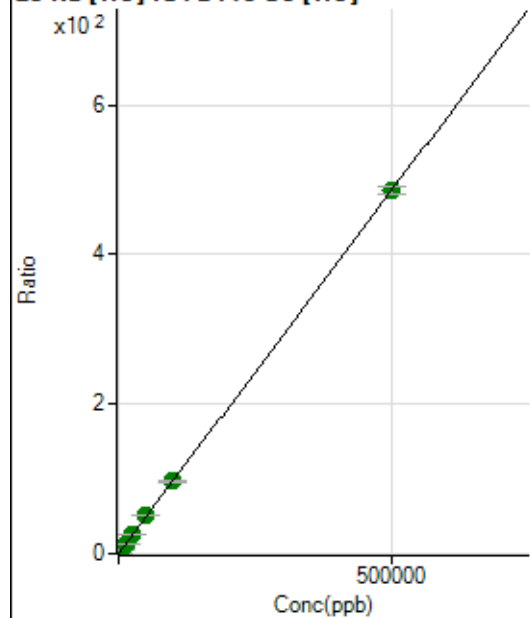
12 C [No Gas] No available calibration points



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			4817691.95		A	0.6
2	☐			4860697.81		A	0.9
3	☐			5124161.70		A	1.0
4	☐			5431157.46		A	2.5
5	☐			5787989.32		A	1.9
6	☐			6374015.33		A	2.6
7	☐			6915620.08		A	3.6
8	☐			5491261.71		A	2.5

12 C [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			53286.04		P	1.4
2	☐			52628.36		P	1.5
3	☐			57169.96		P	0.8
4	☐			62619.86		P	0.2
5	☐			68749.76		P	1.1
6	☐			75960.25		P	0.7
7	☐			82246.70		P	1.0
8	☐			71518.85		P	1.0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	15489.12	0.0411	P	3.2
2	☐	500.000	503.512	211362.92	0.5298	P	2.1
3	☐	5000.000	4969.421	1932323.00	4.8644	A	0.8
4	☐	12500.000	12311.546	4721782.22	11.9907	A	3.4
5	☐	25000.000	26173.469	9502335.89	25.4452	A	0.3
6	☐	50000.000	52025.578	18703120.21	50.5374	A	1.4
7	☐	100000.00	100273.29	37214924.79	97.3669	A	2.7
8	☐	500000.00	499689.12	187539018.0	485.0424	A	1.9

$$y = 9.7061E-004 * x + 0.0411$$

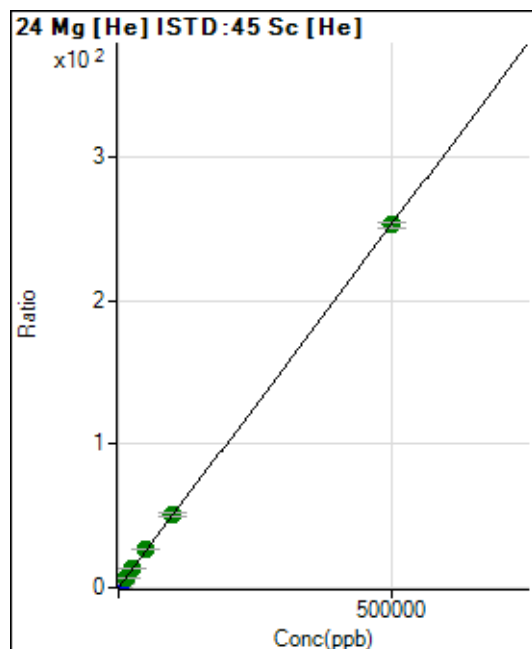
$$R = 1.0000$$

$$DL = 4$$

$$BEC = 42.31$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	227.79	0.0006	P	14.0
2	☐	500.000	506.728	102529.34	0.2570	P	2.5
3	☐	5000.000	5109.046	1027082.41	2.5858	P	2.0
4	☐	12500.000	12732.302	2537606.57	6.4431	A	2.5
5	☐	25000.000	26739.266	5052796.47	13.5305	A	0.6
6	☐	50000.000	52904.644	9906361.42	26.7701	A	2.2
7	☐	100000.00	100823.87	19497730.64	51.0170	A	3.3
8	☐	500000.00	499450.89	97718195.93	252.7202	A	1.7

$$y = 5.0599\text{E-}004 * x + 6.0441\text{E-}004$$

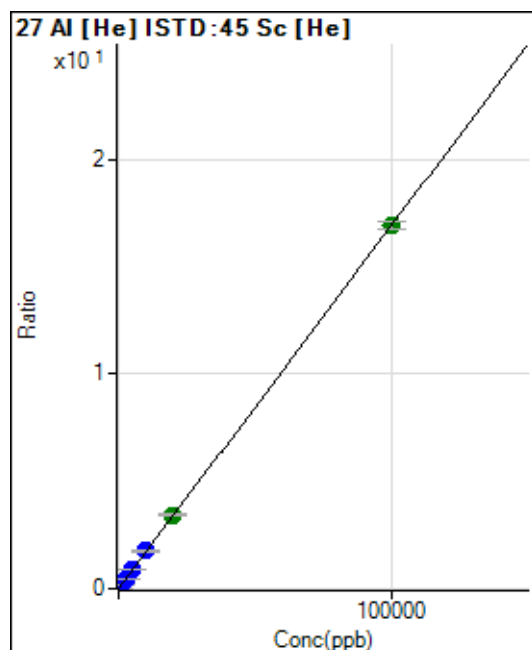
$$R = 1.0000$$

$$DL = 0.5025$$

$$BEC = 1.194$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	108.74	0.0003	P	1.9
2	☐	20.000	19.874	1456.98	0.0037	P	2.4
3	☐	1000.000	1000.922	67406.91	0.1697	P	1.6
4	☐	2500.000	2511.276	167469.95	0.4253	P	3.8
5	☐	5000.000	5275.793	333516.11	0.8932	P	1.7
6	☐	10000.000	10384.766	650564.15	1.7579	P	1.7
7	☐	20000.000	20331.437	1315474.38	3.4414	A	2.7
8	☐	100000.00	99881.155	6536303.18	16.9055	A	2.2

$$y = 1.6925\text{E-}004 * x + 2.8812\text{E-}004$$

$$R = 1.0000$$

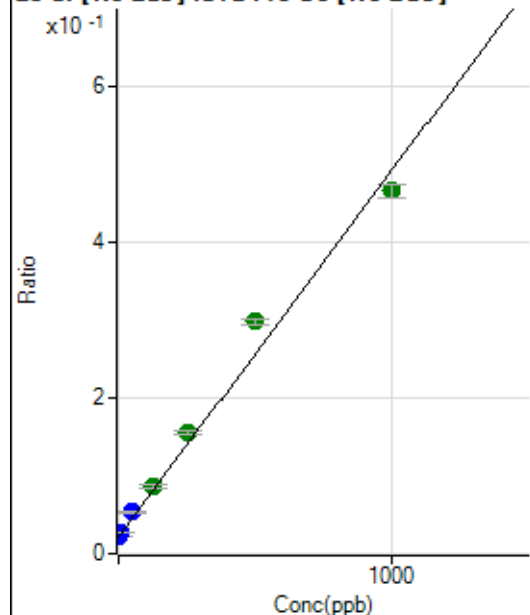
$$DL = 0.09579$$

$$BEC = 1.702$$

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	272139.54	0.0215	P	1.6
2	☐	10.000	12.168	350752.72	0.0273	P	2.9
3	☐	50.000	67.253	686735.87	0.0532	P	2.5
4	☐	125.000	135.971	1084670.84	0.0855	A	5.7
5	☐	250.000	285.268	1889315.84	0.1557	A	4.2
6	☐	500.000	587.262	3649506.03	0.2978	A	2.7
7	☐	1000.000	945.296	5794663.41	0.4663	A	3.5
8	☐			802126.70	0.0680	P	2.2

$$y = 4.7048\text{E-}004 * x + 0.0215$$

$$R = 0.9934$$

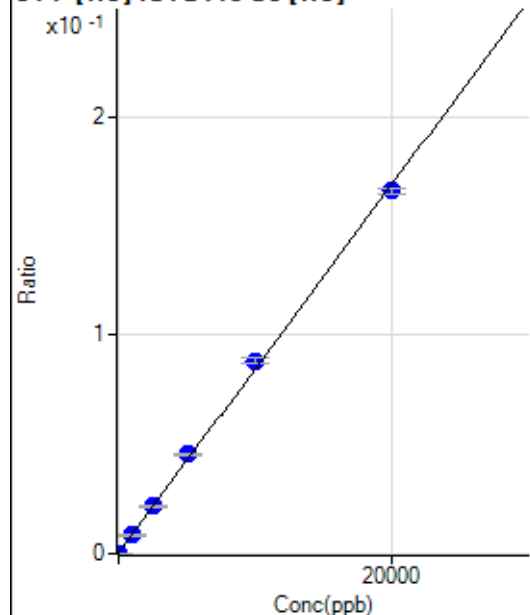
$$DL = 2.185$$

$$BEC = 45.77$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	1.729	119.45	0.0003	P	40.9
2	☐	0.000	-1.729	113.89	0.0003	P	23.7
3	☐	1000.000	968.592	3364.38	0.0085	P	5.1
4	☐	2500.000	2547.684	8580.53	0.0218	P	2.1
5	☐	5000.000	5364.892	17002.01	0.0455	P	2.9
6	☐	10000.000	10462.729	32757.16	0.0885	P	3.5
7	☐	20000.000	19673.022	63525.88	0.1662	P	1.9
8	☐			130.56	0.0003	P	11.2

$$y = 8.4327\text{E-}006 * x + 3.0068\text{E-}004$$

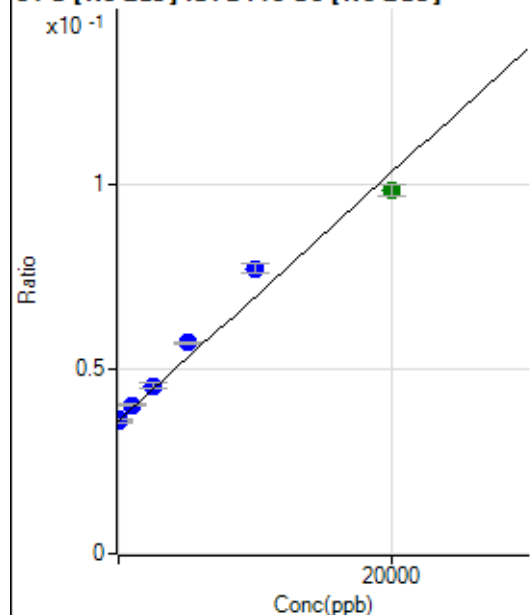
$$R = 0.9994$$

$$DL = 35.02$$

$$BEC = 35.66$$

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	57.763	458641.15	0.0363	P	1.3
2	☐	0.000	-57.763	462015.82	0.0359	P	2.1
3	☐	1000.000	1275.176	521747.14	0.0404	P	0.4
4	☐	2500.000	2796.442	577759.78	0.0455	P	3.0
5	☐	5000.000	6274.504	694487.72	0.0572	P	0.8
6	☐	10000.000	12268.666	948099.05	0.0774	P	3.6
7	☐	20000.000	18496.227	1223083.19	0.0984	A	3.1
8	☐			377609.71	0.0320	P	2.0

$$y = 3.3692E-006 * x + 0.0361$$

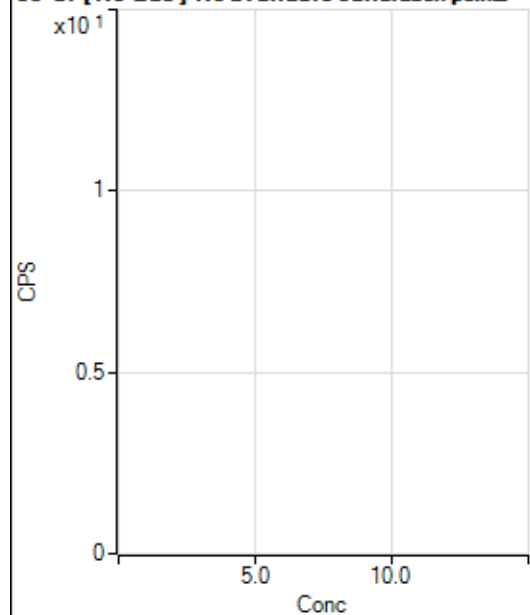
$$R = 0.9873$$

$$DL = 552.2$$

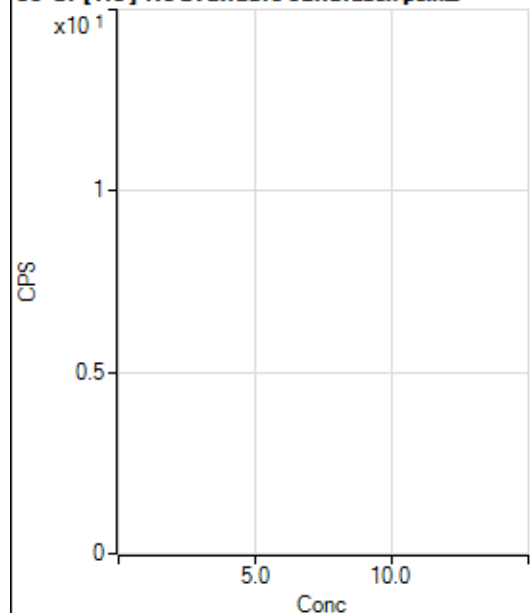
$$BEC = 1.071E+04$$

Weight: <None>

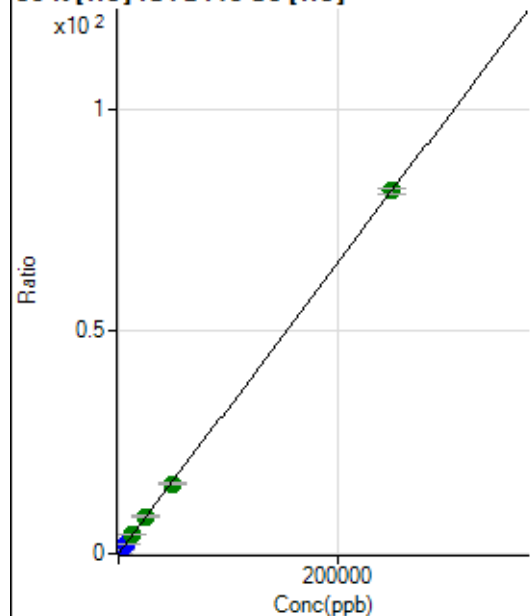
Min Conc: 0

35 Cl [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			311876.84		P	1.2
2	☐			316585.09		P	0.6
3	☐			301132.34		P	0.8
4	☐			294690.30		P	0.5
5	☐			282592.68		P	1.3
6	☐			275244.97		P	1.4
7	☐			300592.35		P	1.1
8	☐			254130.07		P	0.9

35 Cl [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1955.75		P	6.6
2	☐			2216.89		P	1.0
3	☐			1925.17		P	8.9
4	☐			1816.83		P	8.8
5	☐			1811.28		P	4.9
6	☐			1725.15		P	2.1
7	☐			1961.29		P	3.9
8	☐			1741.82		P	3.0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	10734.81	0.0285	P	2.7
2	☐	500.000	475.148	73194.11	0.1835	P	2.2
3	☐	2500.000	2486.512	333525.00	0.8396	P	1.1
4	☐	6250.000	6189.218	806381.02	2.0476	P	2.7
5	☐	12500.000	12891.937	1580981.83	4.2342	A	1.6
6	☐	25000.000	25566.306	3096869.08	8.3689	A	2.5
7	☐	50000.000	48321.885	6036823.83	15.7924	A	1.2
8	☐	250000.00	250261.10	31582451.05	81.6707	A	1.3

$$y = 3.2623\text{E-}004 * x + 0.0285$$

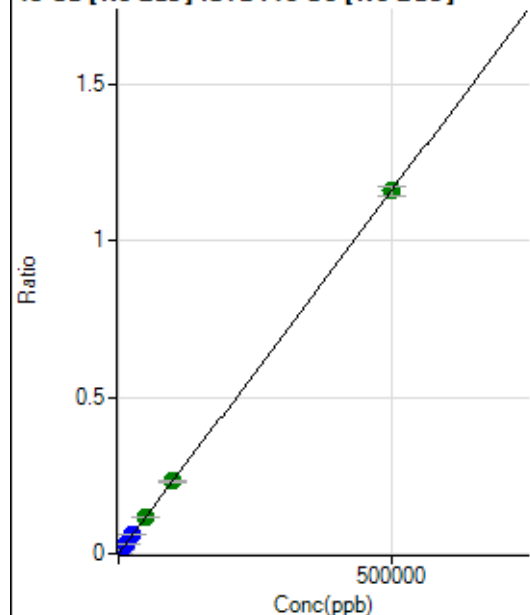
$$R = 1.0000$$

$$DL = 7.166$$

$$BEC = 87.23$$

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	336.29	0.0000	P	1.5
2	☐	500.000	489.298	14926.30	0.0012	P	2.8
3	☐	5000.000	4899.688	146928.60	0.0114	P	1.3
4	☐	12500.000	12295.713	361792.26	0.0285	P	3.5
5	☐	25000.000	25836.729	726459.35	0.0599	P	1.2
6	☐	50000.000	50954.007	1446006.92	0.1180	A	1.7
7	☐	100000.00	99794.653	2873751.01	0.2312	A	1.8
8	☐	500000.00	499909.95	13658414.60	1.1579	A	2.5

$$y = 2.3162\text{E-}006 * x + 2.6608\text{E-}005$$

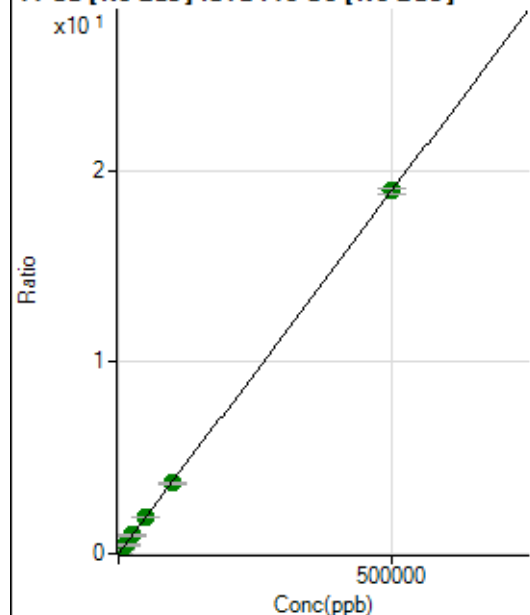
$$R = 1.0000$$

$$DL = 0.5271$$

$$BEC = 11.49$$

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	19520.23	0.0015	P	2.0
2	☐	500.000	485.651	256039.94	0.0199	P	2.5
3	☐	5000.000	4805.503	2365513.89	0.1831	A	1.2
4	☐	12500.000	12037.762	5794224.25	0.4564	A	2.8
5	☐	25000.000	25285.270	11611670.43	0.9570	A	2.0
6	☐	50000.000	49418.481	22898159.06	1.8690	A	0.5
7	☐	100000.00	97343.518	45741011.04	3.6800	A	2.4
8	☐	500000.00	500588.70	223180464.6	18.9182	A	1.8

$$y = 3.7789\text{E-}005 * x + 0.0015$$

$$R = 1.0000$$

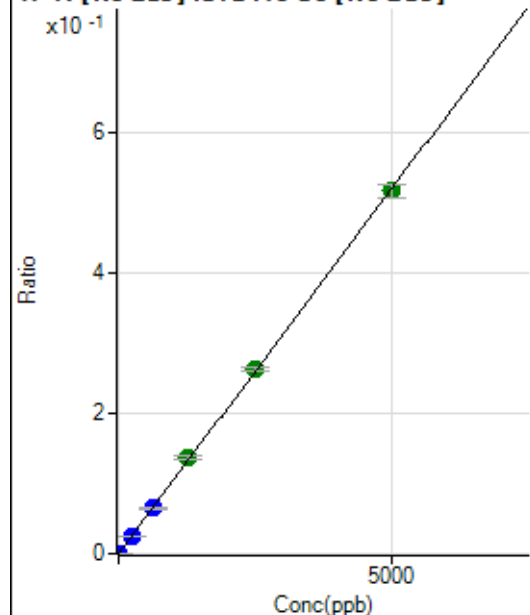
$$DL = 2.484$$

$$BEC = 40.87$$

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	172.23	0.0000	P	40.8
2	☐	5.000	4.789	6585.05	0.0005	P	5.8
3	☐	250.000	249.787	335764.25	0.0260	P	0.4
4	☐	625.000	629.459	831082.86	0.0655	P	3.5
5	☐	1250.000	1310.371	1653505.75	0.1363	A	3.6
6	☐	2500.000	2520.457	3210810.83	0.2622	A	2.0
7	☐	5000.000	4974.132	6429242.81	0.5174	A	3.7
8	☐			2458.62	0.0002	P	5.0

$$y = 1.0401\text{E-}004 * x + 1.3673\text{E-}005$$

$$R = 0.9999$$

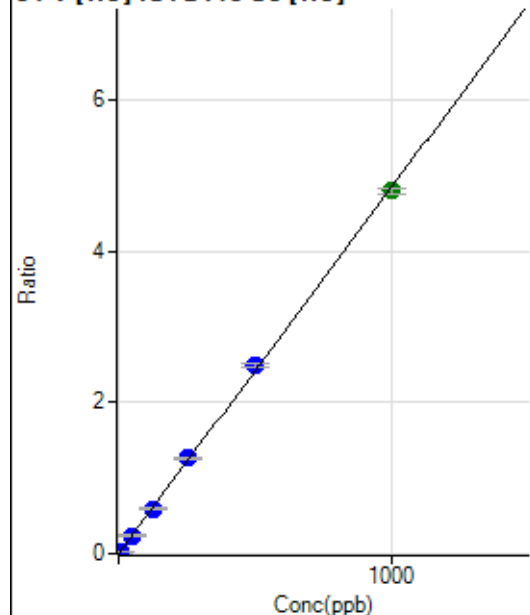
$$DL = 0.1608$$

$$BEC = 0.1315$$

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	13.34	0.0000	P	42.6
2	☐	5.000	5.098	9877.93	0.0248	P	4.7
3	☐	50.000	49.737	95821.49	0.2412	P	1.5
4	☐	125.000	122.568	234064.63	0.5944	P	3.4
5	☐	250.000	260.350	471364.88	1.2626	P	2.8
6	☐	500.000	514.703	923676.59	2.4960	P	2.0
7	☐	1000.000	990.377	1835892.04	4.8027	A	1.6
8	☐			271.12	0.0007	P	12.8

$$y = 0.0048 * x + 3.5233\text{E-}005$$

$$R = 0.9998$$

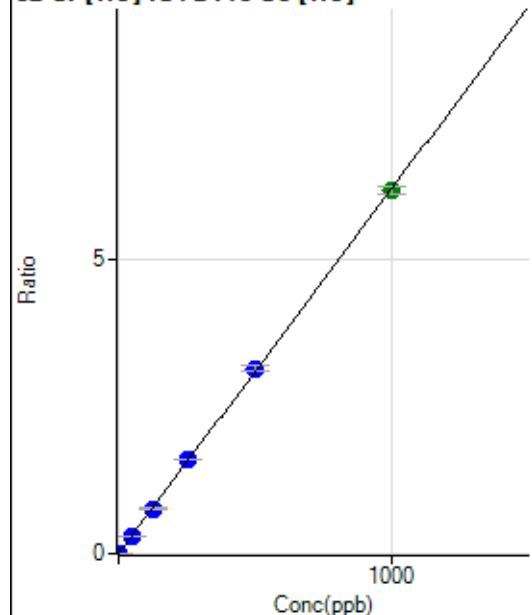
$$DL = 0.009284$$

$$BEC = 0.007265$$

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	765.58	0.0020	P	5.4
2	☐	2.000	1.989	5716.75	0.0143	P	3.5
3	☐	50.000	49.362	122048.46	0.3072	P	1.2
4	☐	125.000	122.546	299183.41	0.7598	P	3.3
5	☐	250.000	257.585	595474.24	1.5948	P	1.3
6	☐	500.000	507.192	1161201.53	3.1381	P	2.9
7	☐	1000.000	994.846	2351941.18	6.1535	A	2.2
8	☐			5318.81	0.0138	P	2.9

$$y = 0.0062 * x + 0.0020$$

$$R = 0.9999$$

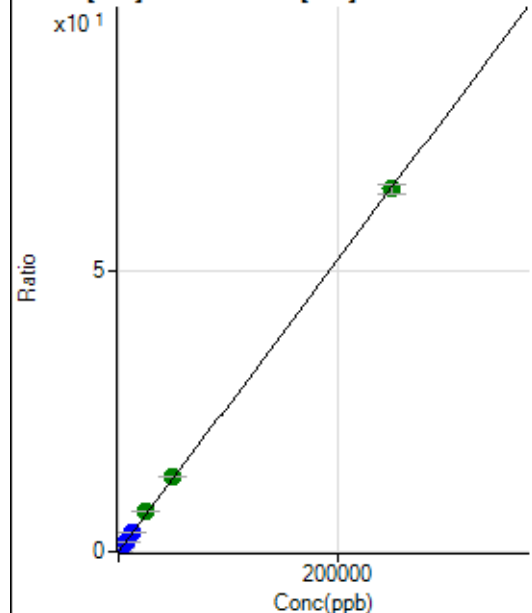
$$DL = 0.05365$$

$$BEC = 0.3283$$

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	288.90	0.0008	P	11.6
2	☐	50.000	55.560	6042.10	0.0151	P	3.0
3	☐	2500.000	2598.545	267408.33	0.6732	P	0.5
4	☐	6250.000	6495.451	662149.68	1.6815	P	3.4
5	☐	12500.000	13657.272	1319681.41	3.5347	P	2.7
6	☐	25000.000	27649.536	2647793.35	7.1553	A	2.4
7	☐	50000.000	51679.071	5112422.28	13.3731	A	0.8
8	☐	250000.00	249334.24	24943261.90	64.5178	A	2.5

$$y = 2.5876E-004 * x + 7.6648E-004$$

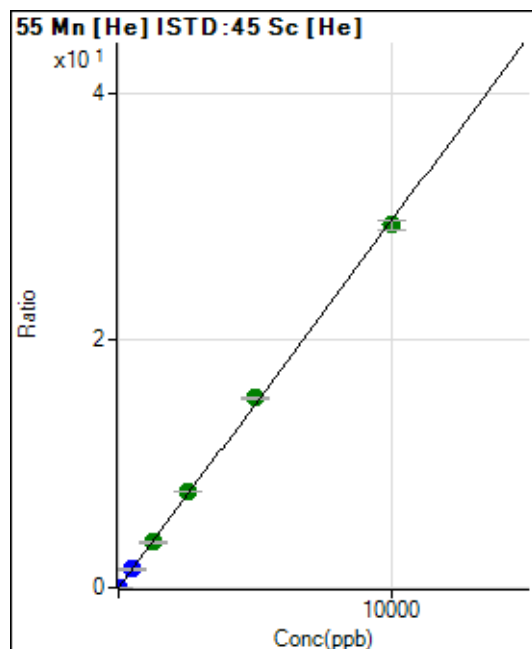
$$R = 0.9999$$

$$DL = 1.033$$

$$BEC = 2.962$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	31.11	0.0001	P	14.6
2	☐	1.000	1.040	1265.62	0.0032	P	1.2
3	☐	500.000	498.543	588063.93	1.4804	P	1.0
4	☐	1250.000	1244.165	1454418.75	3.6944	A	4.5
5	☐	2500.000	2620.317	2905060.02	7.7806	A	1.9
6	☐	5000.000	5171.748	5683250.68	15.3566	A	1.3
7	☐	10000.000	9884.849	11218056.36	29.3512	A	2.4
8	☐			10451.70	0.0270	P	0.9

$$y = 0.0030 * x + 8.2314E-005$$

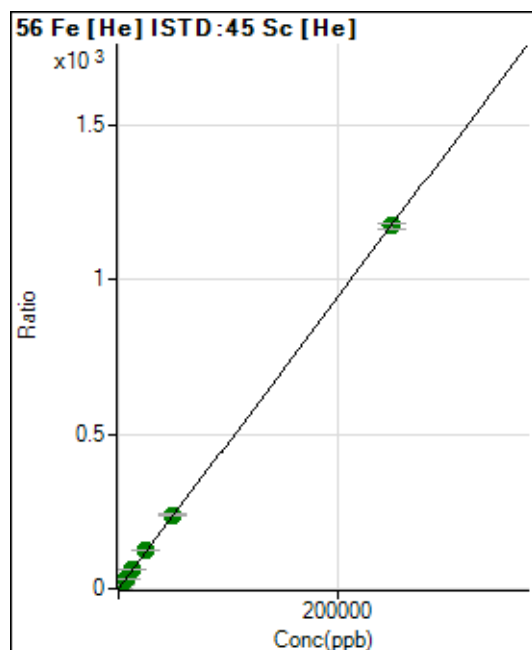
$$R = 0.9997$$

$$DL = 0.01211$$

$$BEC = 0.02772$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1939.06	0.0051	P	11.0
2	☐	50.000	51.332	98407.46	0.2467	P	2.7
3	☐	2500.000	2556.347	4780265.33	12.0339	A	1.2
4	☐	6250.000	6400.137	11859922.26	30.1206	A	3.7
5	☐	12500.000	13337.474	23435681.54	62.7638	A	1.6
6	☐	25000.000	26561.201	46253541.31	124.9872	A	1.9
7	☐	50000.000	50682.746	91154587.22	238.4896	A	2.1
8	☐	250000.00	249661.14	454230887.9	1,174.770	A	1.8

$$y = 0.0047 * x + 0.0051$$

$$R = 1.0000$$

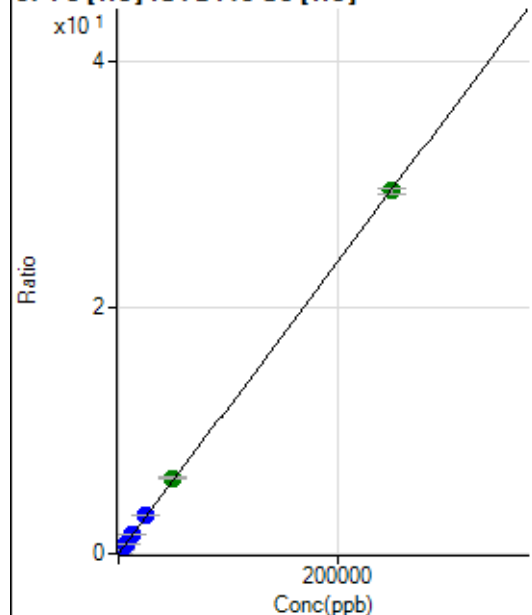
$$DL = 0.3625$$

$$BEC = 1.093$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	38.89	0.0001	P	44.2
2	☐	50.000	50.390	2420.62	0.0061	P	3.7
3	☐	2500.000	2546.645	119797.34	0.3016	P	0.9
4	☐	6250.000	6446.743	300588.35	0.7633	P	3.0
5	☐	12500.000	13401.166	592352.19	1.5865	P	1.9
6	☐	25000.000	26524.500	1161952.73	3.1400	P	2.4
7	☐	50000.000	52061.341	2355361.19	6.1630	A	2.9
8	☐	250000.00	249384.83	11415320.86	29.5216	A	1.5

$$y = 1.1838E-004 * x + 1.0357E-004$$

$$R = 0.9999$$

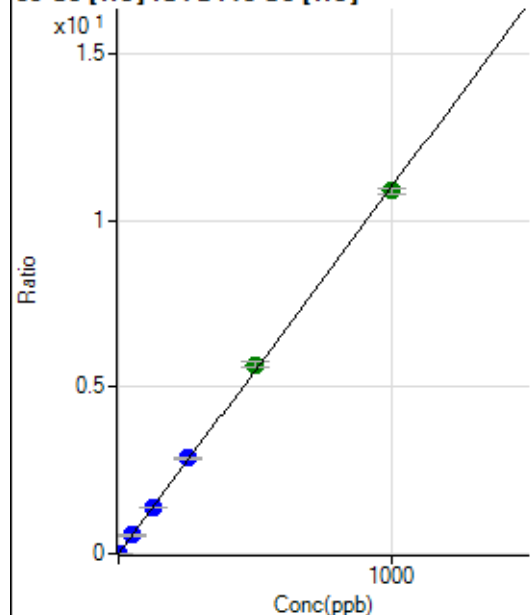
$$DL = 1.16$$

$$BEC = 0.8749$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	64.45	0.0002	P	36.3
2	☐	1.000	1.012	4510.76	0.0113	P	6.0
3	☐	50.000	49.821	218000.96	0.5488	P	0.1
4	☐	125.000	125.530	544392.82	1.3824	P	3.2
5	☐	250.000	261.068	1073412.19	2.8749	P	1.9
6	☐	500.000	515.772	2101625.54	5.6796	A	2.8
7	☐	1000.000	989.290	4163993.23	10.8937	A	1.8
8	☐			9942.44	0.0257	P	3.3

$$y = 0.0110 * x + 1.7116E-004$$

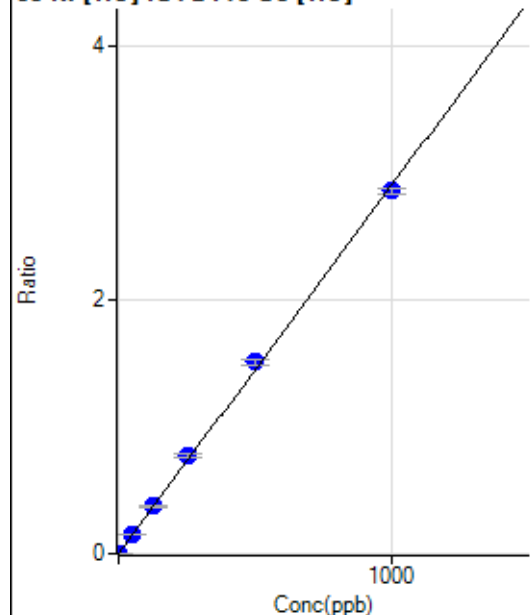
$$R = 0.9997$$

$$DL = 0.01694$$

$$BEC = 0.01554$$

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	45.56	0.0001	P	28.5
2	☐	1.000	1.073	1291.18	0.0032	P	2.8
3	☐	50.000	51.232	59122.16	0.1488	P	1.1
4	☐	125.000	128.113	146495.70	0.3720	P	3.0
5	☐	250.000	266.712	289087.27	0.7743	P	2.6
6	☐	500.000	519.891	558516.19	1.5092	P	2.5
7	☐	1000.000	985.426	1093416.63	2.8606	P	1.7
8	☐			3404.89	0.0088	P	4.7

$$y = 0.0029 * x + 1.2093E-004$$

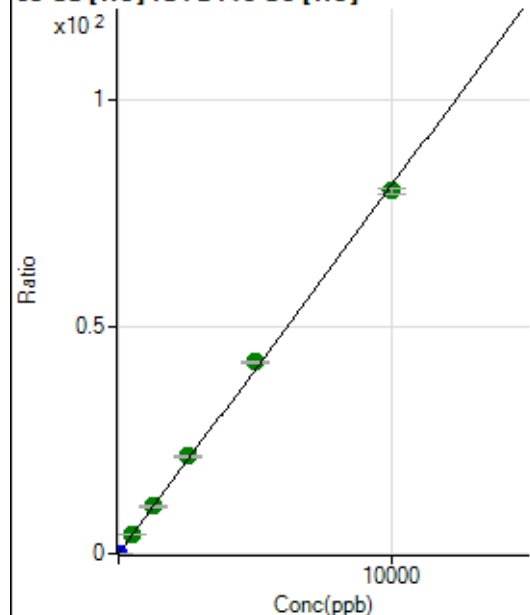
$$R = 0.9995$$

$$DL = 0.03559$$

$$BEC = 0.04166$$

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	665.58	0.0018	P	7.1
2	☐	2.000	1.986	7115.18	0.0178	P	6.0
3	☐	500.000	520.537	1674886.47	4.2165	A	1.7
4	☐	1250.000	1279.872	4081446.46	10.3649	A	3.3
5	☐	2500.000	2655.845	8029946.76	21.5061	A	1.7
6	☐	5000.000	5204.140	15595814.91	42.1396	A	1.0
7	☐	10000.000	9854.208	30500643.99	79.7912	A	1.5
8	☐			7874.48	0.0204	P	2.7

$$y = 0.0081 * x + 0.0018$$

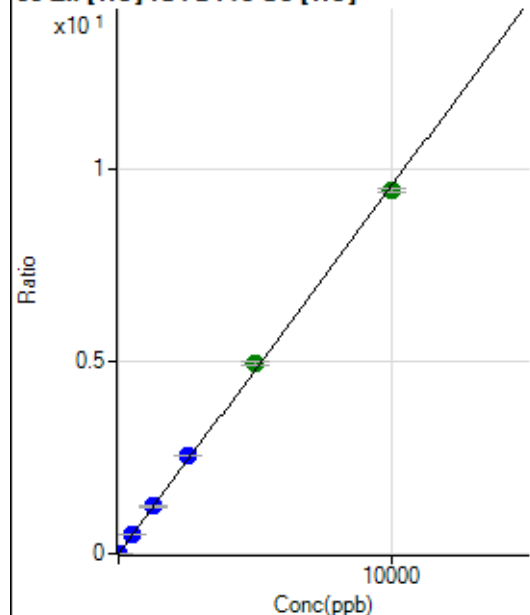
$$R = 0.9995$$

$$DL = 0.04612$$

$$BEC = 0.218$$

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	248.89	0.0007	P	18.4
2	☐	2.000	2.439	1193.40	0.0030	P	6.6
3	☐	500.000	514.490	195686.39	0.4926	P	1.5
4	☐	1250.000	1283.498	483616.00	1.2280	P	2.7
5	☐	2500.000	2671.826	954280.42	2.5556	P	1.1
6	☐	5000.000	5169.112	1829306.59	4.9436	A	2.6
7	☐	10000.000	9867.576	3607259.56	9.4364	A	1.1
8	☐			10117.03	0.0262	P	0.9

$$y = 9.5624\text{E-}004 * x + 6.6090\text{E-}004$$

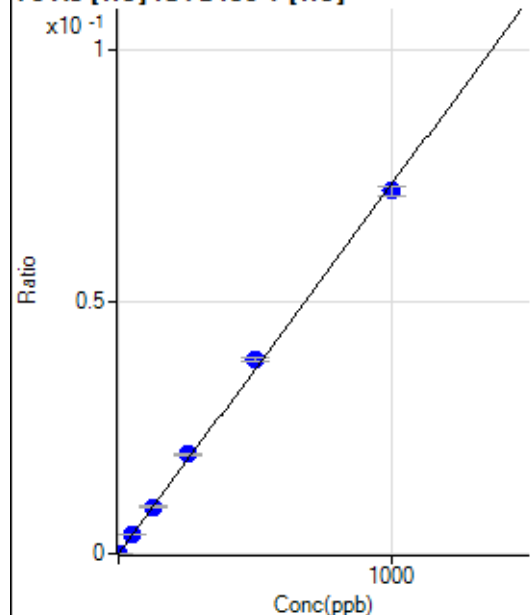
$$R = 0.9996$$

$$DL = 0.3814$$

$$BEC = 0.6911$$

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	5.00	0.0000	P	21.5
2	☐	1.000	1.050	227.36	0.0001	P	6.2
3	☐	50.000	50.596	10758.51	0.0037	P	2.4
4	☐	125.000	125.751	26700.13	0.0092	P	3.2
5	☐	250.000	268.508	53082.03	0.0197	P	1.2
6	☐	500.000	525.185	103772.47	0.0385	P	2.1
7	☐	1000.000	982.657	203099.53	0.0721	P	2.3
8	☐			65.34	0.0000	P	14.5

$$y = 7.3366\text{E-}005 * x + 1.8268\text{E-}006$$

$$R = 0.9993$$

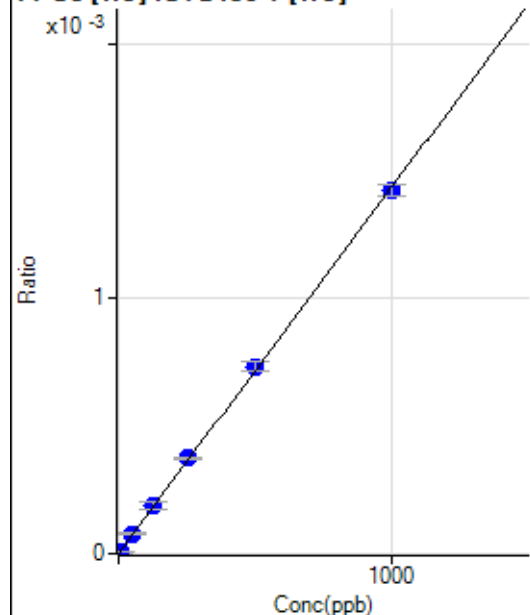
$$DL = 0.01608$$

$$BEC = 0.0249$$

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	1.11	0.0000	P	173.
2	☐	5.000	4.234	18.89	0.0000	P	51.4
3	☐	50.000	53.344	223.34	0.0001	P	7.9
4	☐	125.000	130.294	542.24	0.0002	P	14.4
5	☐	250.000	261.208	1012.27	0.0004	P	1.3
6	☐	500.000	511.236	1979.05	0.0007	P	4.5
7	☐	1000.000	990.755	4010.62	0.0014	P	3.1
8	☐			1.11	0.0000	P	173.

$$y = 1.4366\text{E-}006 * x + 4.1066\text{E-}007$$

$$R = 0.9998$$

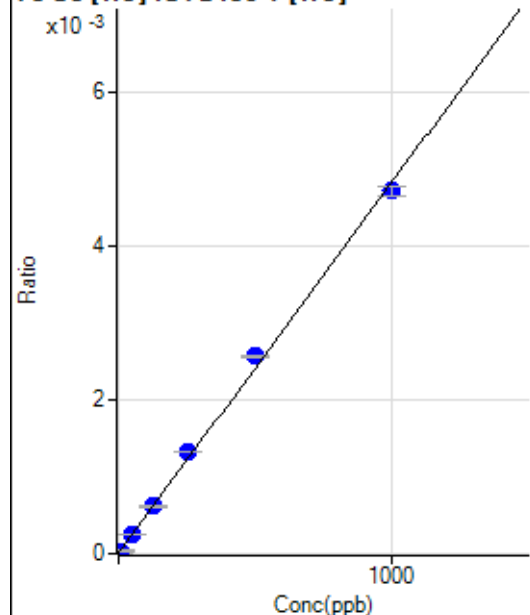
$$DL = 1.485$$

$$BEC = 0.2859$$

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	19.67	0.0000	P	32.3
2	☐	5.000	5.605	98.68	0.0000	P	20.2
3	☐	50.000	52.790	757.43	0.0003	P	0.4
4	☐	125.000	127.460	1796.30	0.0006	P	5.1
5	☐	250.000	273.972	3574.82	0.0013	P	1.6
6	☐	500.000	530.915	6905.73	0.0026	P	1.0
7	☐	1000.000	978.099	13289.61	0.0047	P	2.5
8	☐			33.67	0.0000	P	25.2

$$y = 4.8158\text{E-}006 * x + 7.1969\text{E-}006$$

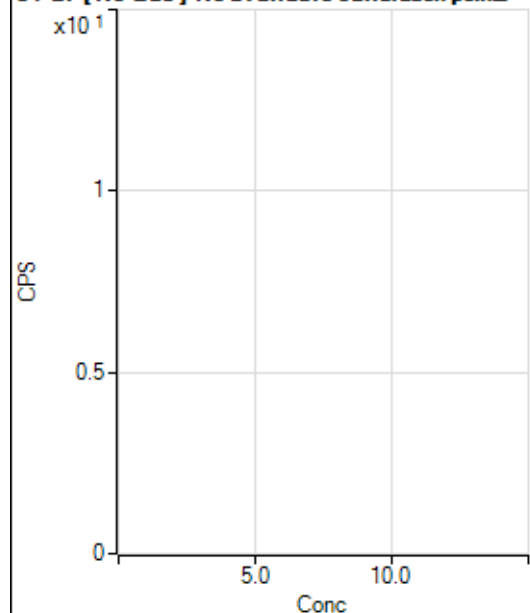
$$R = 0.9989$$

$$DL = 1.449$$

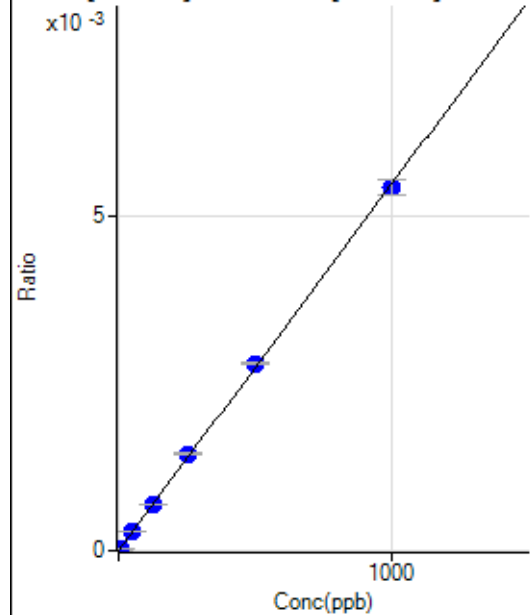
$$BEC = 1.494$$

Weight: <None>

Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			6484.87		P	2.6
2	☐			6558.34		P	1.5
3	☐			6191.09		P	4.9
4	☐			6201.17		P	3.9
5	☐			5944.07		P	7.0
6	☐			5910.66		P	7.1
7	☐			5583.53		P	2.5
8	☐			6074.21		P	0.7

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	-36.01	0.0000	P	-66.
2	☐	5.000	5.159	764.05	0.0000	P	4.6
3	☐	50.000	51.848	8134.46	0.0003	P	1.5
4	☐	125.000	127.245	19929.91	0.0007	P	1.4
5	☐	250.000	264.461	39358.15	0.0014	P	2.9
6	☐	500.000	511.620	76128.74	0.0028	P	1.3
7	☐	1000.000	990.201	150552.45	0.0054	P	4.2
8	☐			-33.34	0.0000	P	-89.

$$y = 5.4825E-006 * x - 1.2900E-006$$

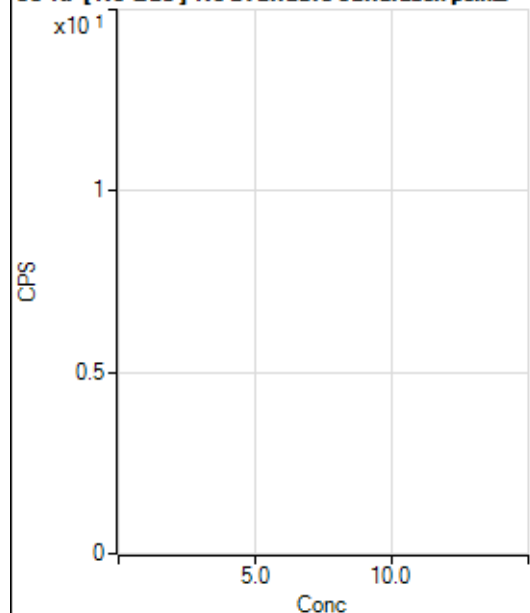
$$R = 0.9998$$

$$DL = 0.4706$$

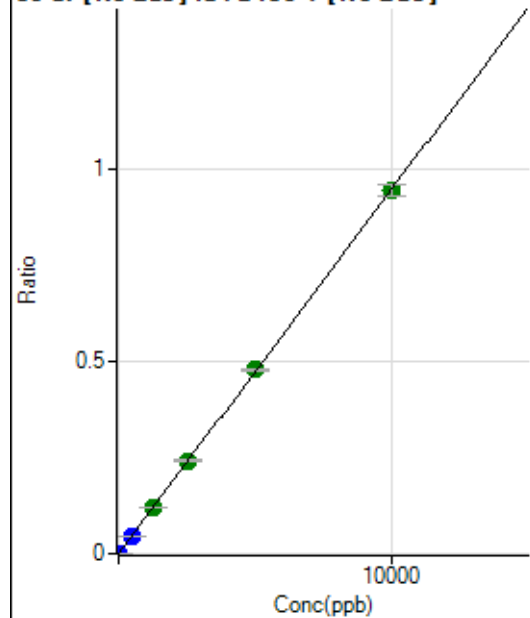
$$BEC = -0.2353$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			574.46		P	2.2
2	☐			561.13		P	2.8
3	☐			588.91		P	11.6
4	☐			535.57		P	6.0
5	☐			531.13		P	3.2
6	☐			611.13		P	10.7
7	☐			536.68		P	20.1
8	☐			620.02		P	2.5

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	883.38	0.0000	P	9.3
2	☐	1.000	1.139	3947.90	0.0001	P	5.6
3	☐	500.000	496.323	1353692.76	0.0471	P	0.1
4	☐	1250.000	1256.864	3411119.82	0.1192	A	2.2
5	☐	2500.000	2546.993	6563284.69	0.2415	A	1.5
6	☐	5000.000	5052.143	13007966.35	0.4790	A	0.7
7	☐	10000.000	9961.506	26204807.01	0.9445	A	3.0
8	☐			11688.50	0.0004	P	3.9

$$y = 9.4809E-005 * x + 3.1585E-005$$

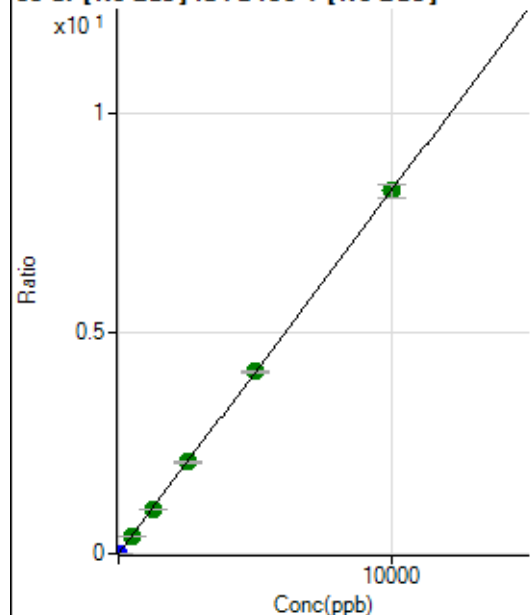
$$R = 1.0000$$

$$DL = 0.093$$

$$BEC = 0.3331$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	516.69	0.0000	P	15.0
2	☐	1.000	1.104	26278.13	0.0009	P	3.0
3	☐	500.000	486.512	11528630.64	0.4010	A	0.9
4	☐	1250.000	1226.519	28932410.72	1.0109	A	2.3
5	☐	2500.000	2529.678	56657661.68	2.0850	A	2.0
6	☐	5000.000	5008.373	112089396.9	4.1279	A	1.8
7	☐	10000.000	9992.003	228467932.8	8.2354	A	3.8
8	☐			93255.41	0.0035	P	3.0

$$y = 8.2420\text{E-}004 * x + 1.8478\text{E-}005$$

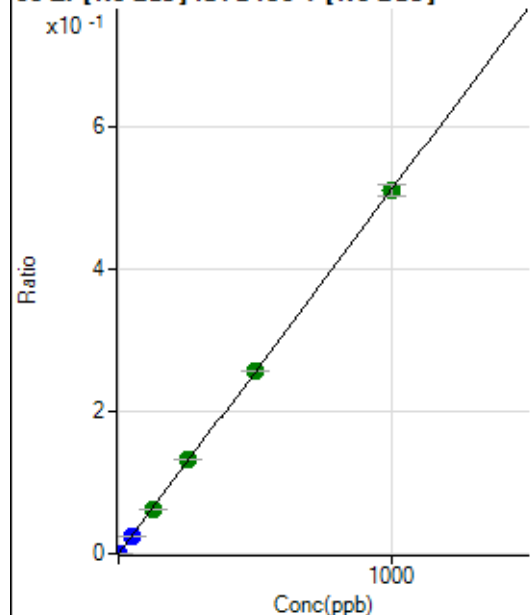
$$R = 1.0000$$

$$DL = 0.0101$$

$$BEC = 0.02242$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	1458.45	0.0001	P	3.6
2	☐	1.000	0.976	15595.27	0.0006	P	5.6
3	☐	50.000	49.784	733773.88	0.0255	P	0.7
4	☐	125.000	122.798	1799581.18	0.0629	A	2.1
5	☐	250.000	258.498	3596414.32	0.1323	A	1.6
6	☐	500.000	501.569	6970063.87	0.2567	A	0.8
7	☐	1000.000	997.377	14159518.89	0.5104	A	3.1
8	☐			4962.13	0.0002	P	2.7

$$y = 5.1164\text{E-}004 * x + 5.2053\text{E-}005$$

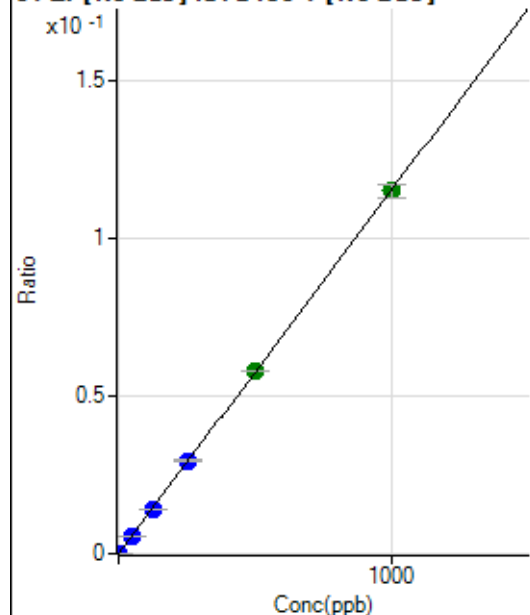
$$R = 0.9999$$

$$DL = 0.01107$$

$$BEC = 0.1017$$

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	305.57	0.0000	P	18.4
2	☐	1.000	0.886	3203.23	0.0001	P	1.2
3	☐	50.000	48.525	161287.57	0.0056	P	1.3
4	☐	125.000	121.322	401006.70	0.0140	P	1.5
5	☐	250.000	256.456	804432.35	0.0296	P	2.3
6	☐	500.000	501.784	1572602.90	0.0579	A	0.8
7	☐	1000.000	998.028	3195419.93	0.1152	A	3.4
8	☐			1144.52	0.0000	P	6.8

$$y = 1.1539\text{E-}004 * x + 1.0923\text{E-}005$$

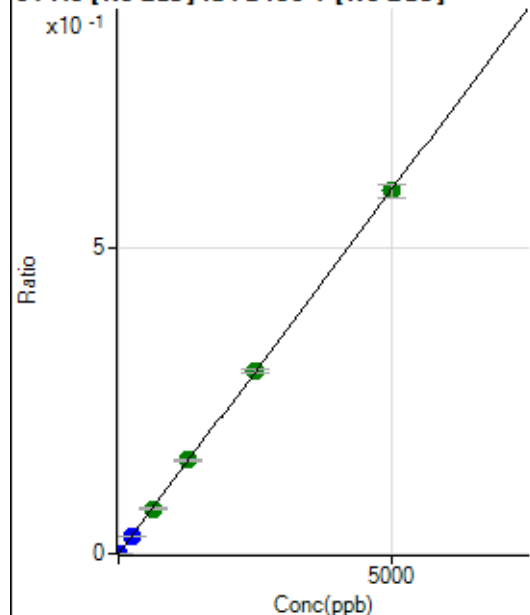
$$R = 1.0000$$

$$DL = 0.0522$$

$$BEC = 0.09466$$

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	461.13	0.0000	P	8.0
2	☐	5.000	5.027	17403.00	0.0006	P	2.4
3	☐	250.000	245.633	840393.31	0.0292	P	1.1
4	☐	625.000	616.719	2099705.47	0.0734	A	2.6
5	☐	1250.000	1285.512	4155127.48	0.1529	A	2.5
6	☐	2500.000	2509.642	8106187.24	0.2985	A	1.4
7	☐	5000.000	4987.555	16457494.64	0.5933	A	4.0
8	☐			5743.03	0.0002	P	10.3

$$y = 1.1895\text{E-}004 * x + 1.6478\text{E-}005$$

$$R = 1.0000$$

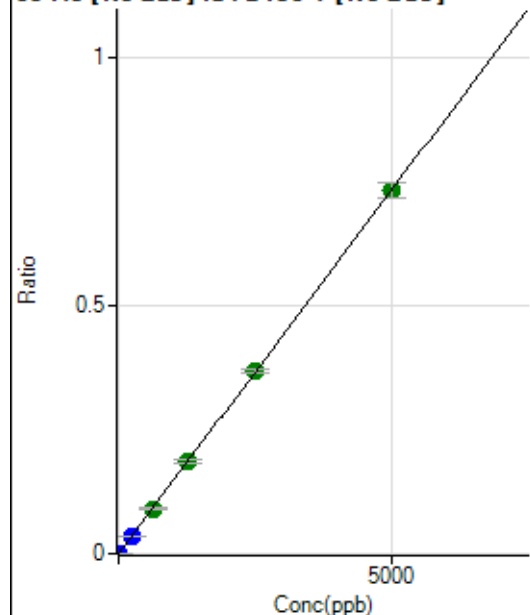
$$DL = 0.03314$$

$$BEC = 0.1385$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	36.11	0.0000	P	26.5
2	☐	5.000	5.113	21275.21	0.0008	P	2.9
3	☐	250.000	242.583	1023277.22	0.0356	P	0.5
4	☐	625.000	613.441	2575548.60	0.0900	A	3.0
5	☐	1250.000	1270.344	5064035.49	0.1864	A	3.0
6	☐	2500.000	2510.634	10001962.47	0.3684	A	1.9
7	☐	5000.000	4991.413	20314768.51	0.7324	A	4.2
8	☐			6043.14	0.0002	P	11.6

$$y = 1.4672\text{E-}004 * x + 1.2890\text{E-}006$$

$$R = 1.0000$$

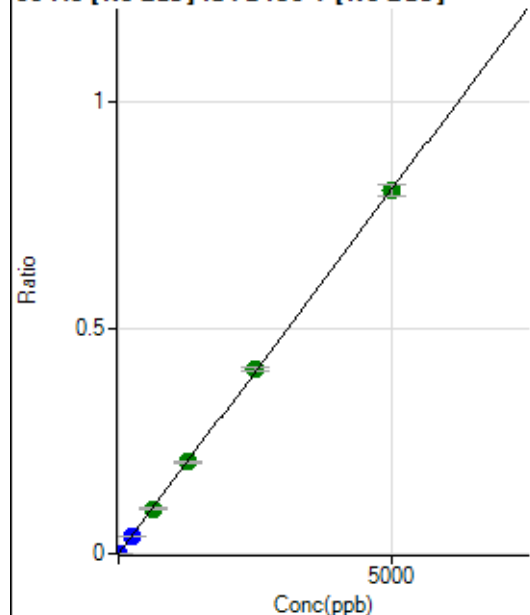
$$DL = 0.00699$$

$$BEC = 0.008785$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	152.78	0.0000	P	28.6
2	☐	5.000	5.076	23314.55	0.0008	P	3.2
3	☐	250.000	245.107	1136001.71	0.0395	P	0.8
4	☐	625.000	613.849	2831862.86	0.0990	A	2.3
5	☐	1250.000	1258.112	5509359.02	0.2028	A	3.6
6	☐	2500.000	2529.983	11073393.91	0.4078	A	1.7
7	☐	5000.000	4984.619	22292125.67	0.8035	A	3.3
8	☐			8416.63	0.0003	P	6.3

$$y = 1.6119\text{E-}004 * x + 5.4637\text{E-}006$$

$$R = 1.0000$$

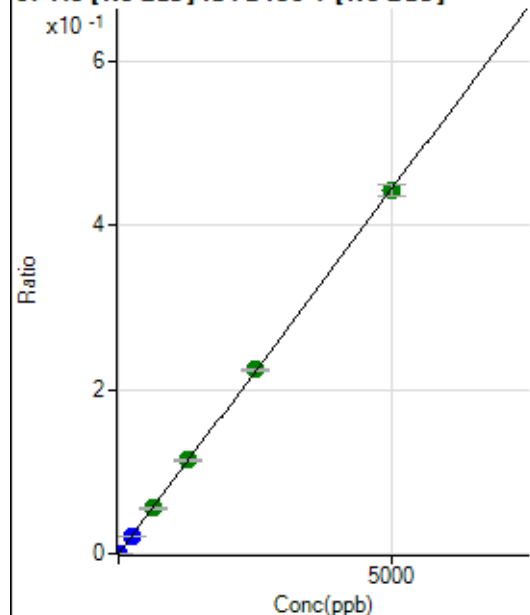
$$DL = 0.02907$$

$$BEC = 0.0339$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	19.44	0.0000	P	48.4
2	☐	5.000	5.259	13239.99	0.0005	P	1.9
3	☐	250.000	248.576	634554.02	0.0221	P	1.2
4	☐	625.000	622.625	1582152.78	0.0553	A	2.5
5	☐	1250.000	1288.546	3108902.67	0.1144	A	2.5
6	☐	2500.000	2524.250	6086547.66	0.2241	A	0.7
7	☐	5000.000	4978.607	12265565.81	0.4421	A	3.1
8	☐			3542.22	0.0001	P	6.7

$$y = 8.8796E-005 * x + 6.8969E-007$$

$$R = 0.9999$$

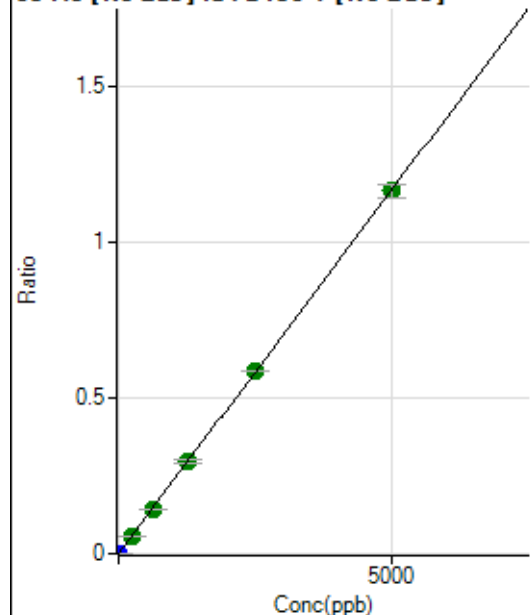
$$DL = 0.01128$$

$$BEC = 0.007767$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	55.56	0.0000	P	47.4
2	☐	5.000	5.104	33761.09	0.0012	P	4.7
3	☐	250.000	241.454	1620049.91	0.0564	A	1.2
4	☐	625.000	608.419	4063499.48	0.1420	A	2.6
5	☐	1250.000	1273.865	8076750.53	0.2973	A	3.5
6	☐	2500.000	2510.974	15913668.06	0.5860	A	0.3
7	☐	5000.000	4991.047	32315763.57	1.1648	A	3.5
8	☐			8589.00	0.0003	P	10.3

$$y = 2.3339E-004 * x + 1.9728E-006$$

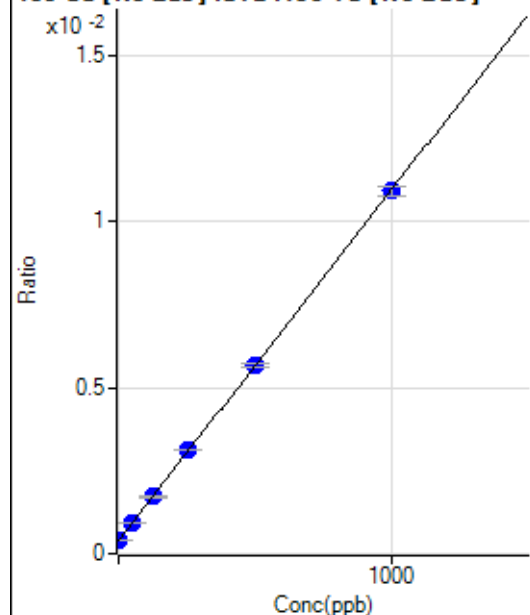
$$R = 1.0000$$

$$DL = 0.01203$$

$$BEC = 0.008453$$

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	8166.57	0.0004	P	6.2
2	☐	1.000	2.191	8689.08	0.0004	P	2.2
3	☐	50.000	49.906	19878.81	0.0009	P	4.0
4	☐	125.000	125.375	37042.19	0.0017	P	3.5
5	☐	250.000	259.062	65307.74	0.0031	P	1.7
6	☐	500.000	501.288	120340.31	0.0057	P	2.6
7	☐	1000.000	997.047	231731.99	0.0109	P	2.6
8	☐			7757.93	0.0004	P	3.4

$$y = 1.0570\text{E-}005 * x + 3.8890\text{E-}004$$

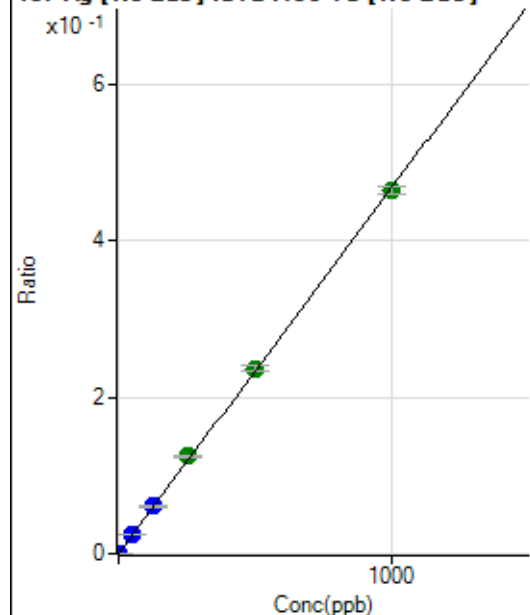
$$R = 1.0000$$

$$DL = 6.823$$

$$BEC = 36.79$$

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	158.34	0.0000	P	14.4
2	☐	1.000	0.999	10012.22	0.0005	P	2.8
3	☐	50.000	52.181	529650.08	0.0244	P	1.6
4	☐	125.000	129.519	1309223.99	0.0606	P	2.8
5	☐	250.000	265.572	2593755.35	0.1242	A	2.6
6	☐	500.000	506.498	5012102.68	0.2369	A	2.5
7	☐	1000.000	992.184	9840396.92	0.4640	A	2.1
8	☐			3512.30	0.0002	P	7.1

$$y = 4.6767\text{E-}004 * x + 7.5385\text{E-}006$$

$$R = 0.9998$$

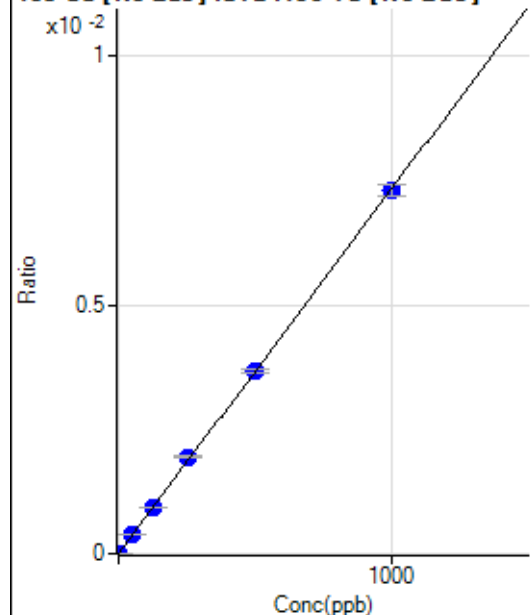
$$DL = 0.006959$$

$$BEC = 0.01612$$

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	48.61	0.0000	P	8.2
2	☐	1.000	1.214	236.12	0.0000	P	16.7
3	☐	50.000	51.810	8281.77	0.0004	P	0.5
4	☐	125.000	126.192	20027.18	0.0009	P	1.1
5	☐	250.000	264.570	40506.47	0.0019	P	1.4
6	☐	500.000	502.563	77918.35	0.0037	P	2.0
7	☐	1000.000	994.837	154508.94	0.0073	P	3.3
8	☐			179.17	0.0000	P	16.7

$$y = 7.3224\text{E-}006 * x + 2.3171\text{E-}006$$

$$R = 0.9999$$

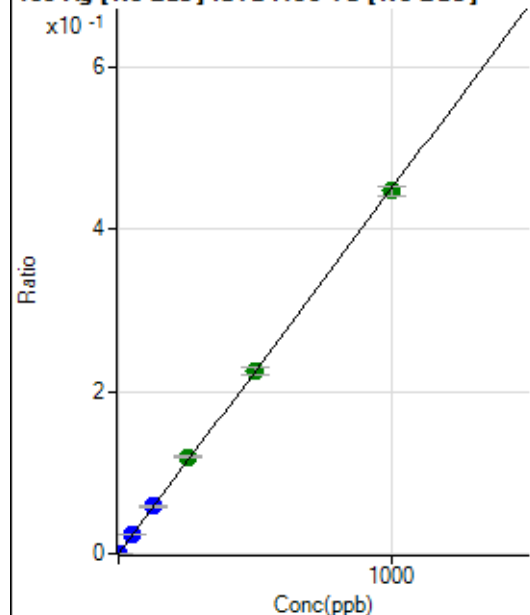
$$DL = 0.07752$$

$$BEC = 0.3164$$

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	55.56	0.0000	P	46.1
2	☐	1.000	1.024	9787.07	0.0005	P	3.3
3	☐	50.000	52.048	508672.10	0.0234	P	1.3
4	☐	125.000	130.544	1270799.95	0.0588	P	2.4
5	☐	250.000	265.976	2501985.52	0.1198	A	0.7
6	☐	500.000	502.518	4787669.42	0.2263	A	4.1
7	☐	1000.000	993.952	9493187.80	0.4477	A	2.7
8	☐			2842.04	0.0001	P	7.5

$$y = 4.5039\text{E-}004 * x + 2.6644\text{E-}006$$

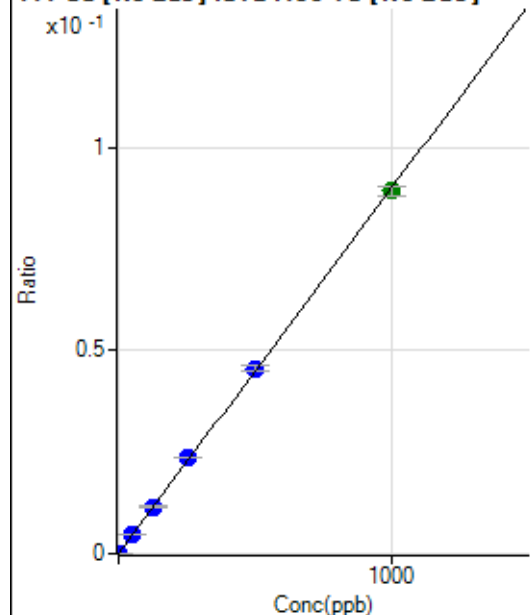
$$R = 0.9998$$

$$DL = 0.008178$$

$$BEC = 0.005916$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	795.13	0.0000	P	5.0
2	☐	1.000	1.135	2952.45	0.0001	P	3.3
3	☐	50.000	51.715	101828.42	0.0047	P	1.2
4	☐	125.000	128.453	250730.98	0.0116	P	2.3
5	☐	250.000	263.687	496502.11	0.0238	P	0.9
6	☐	500.000	506.725	965753.94	0.0457	P	3.5
7	☐	1000.000	992.698	1895664.75	0.0894	A	2.9
8	☐			1130.95	0.0001	P	2.6

$$y = 9.0014\text{E-}005 * x + 3.7853\text{E-}005$$

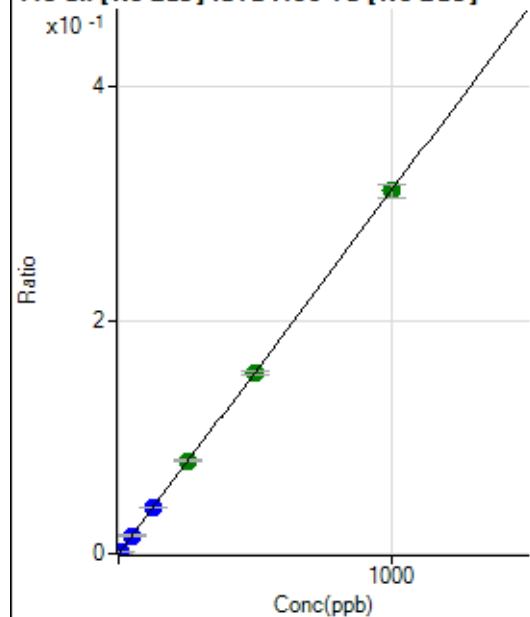
$$R = 0.9999$$

$$DL = 0.06246$$

$$BEC = 0.4205$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	963.95	0.0000	P	7.5
2	☐	5.000	5.041	34034.69	0.0016	P	2.2
3	☐	50.000	50.084	338965.41	0.0156	P	2.2
4	☐	125.000	126.502	851330.09	0.0394	P	3.1
5	☐	250.000	256.191	1665273.70	0.0797	A	0.7
6	☐	500.000	499.611	3289448.56	0.1554	A	2.1
7	☐	1000.000	998.455	6586057.27	0.3106	A	3.4
8	☐			6304.41	0.0003	P	8.3

$$y = 3.1105\text{E-}004 * x + 4.5936\text{E-}005$$

$$R = 1.0000$$

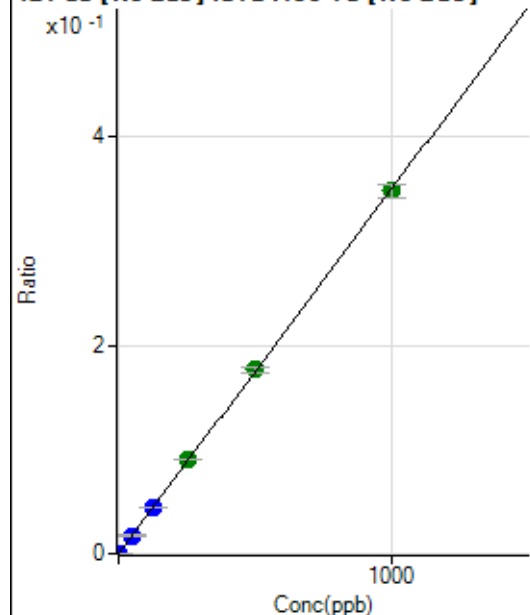
$$DL = 0.03323$$

$$BEC = 0.1477$$

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	47.23	0.0000	P	21.4
2	☐	2.000	2.010	14872.34	0.0007	P	5.4
3	☐	50.000	50.075	380186.05	0.0175	P	2.4
4	☐	125.000	126.698	958126.02	0.0443	P	3.4
5	☐	250.000	258.428	1888491.94	0.0904	A	2.0
6	☐	500.000	505.252	3740374.08	0.1768	A	3.3
7	☐	1000.000	995.051	7382993.05	0.3482	A	3.6
8	☐			4767.63	0.0002	P	5.9

$$y = 3.4992\text{E-}004 * x + 2.2512\text{E-}006$$

$$R = 0.9999$$

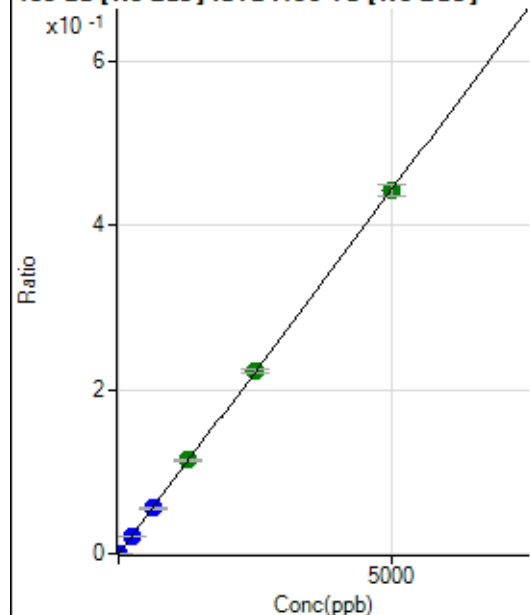
$$DL = 0.004138$$

$$BEC = 0.006433$$

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	97.23	0.0000	P	14.1
2	☐	10.000	10.356	19450.57	0.0009	P	4.6
3	☐	250.000	246.757	474717.01	0.0219	P	1.9
4	☐	625.000	622.961	1193919.68	0.0552	P	1.7
5	☐	1250.000	1286.106	2381059.82	0.1140	A	2.8
6	☐	2500.000	2507.722	4703998.45	0.2223	A	2.8
7	☐	5000.000	4987.529	9376576.51	0.4422	A	3.1
8	☐			4136.84	0.0002	P	12.2

$$y = 8.8656\text{E-}005 * x + 4.6309\text{E-}006$$

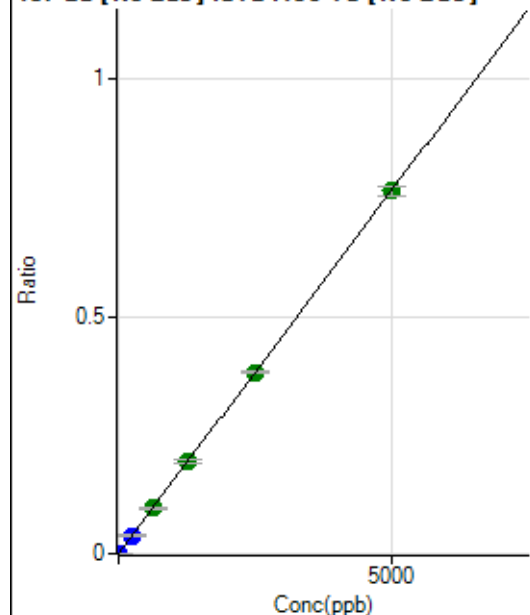
$$R = 1.0000$$

$$DL = 0.02205$$

$$BEC = 0.05223$$

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	66.67	0.0000	P	31.9
2	☐	10.000	10.423	33670.44	0.0016	P	3.4
3	☐	250.000	251.460	834289.81	0.0385	P	0.6
4	☐	625.000	625.972	2068842.93	0.0957	A	1.9
5	☐	1250.000	1269.458	4053344.62	0.1941	A	2.5
6	☐	2500.000	2497.194	8080238.98	0.3818	A	1.5
7	☐	5000.000	4996.343	16199989.94	0.7639	A	2.6
8	☐			7013.15	0.0003	P	7.6

$$y = 1.5290E-004 * x + 3.1648E-006$$

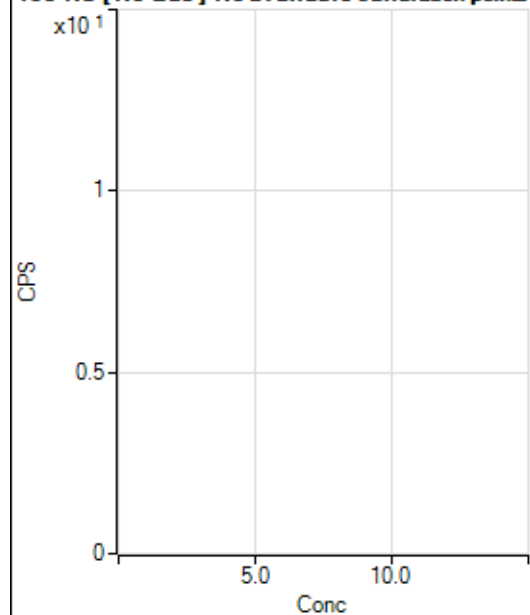
$$R = 1.0000$$

$$DL = 0.0198$$

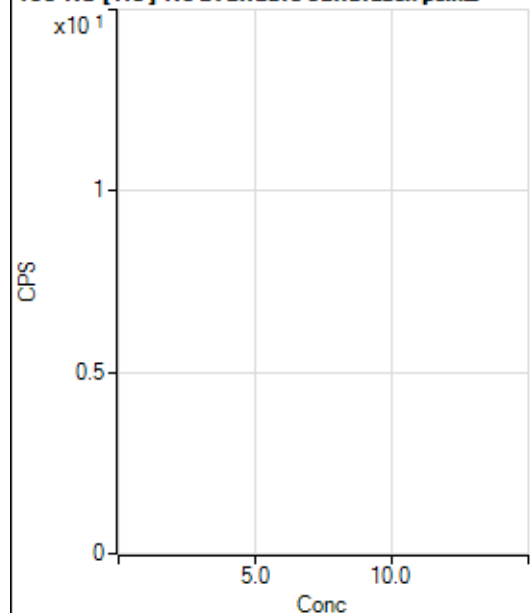
$$BEC = 0.0207$$

Weight: <None>

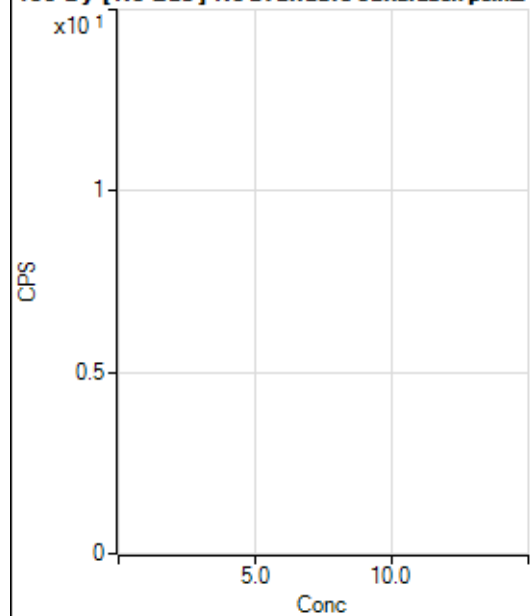
Min Conc: 0

150 Nd [No Gas] No available calibration points

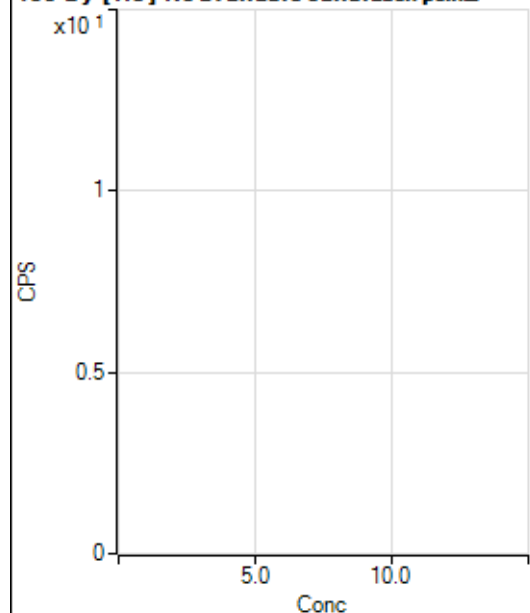
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			8.89		P	114.
2	☐			13.33		P	50.0
3	☐			60.00		P	11.1
4	☐			120.01		P	19.2
5	☐			146.67		P	19.8
6	☐			295.57		P	16.9
7	☐			546.69		P	6.1
8	☐			28.89		P	58.1

150 Nd [He] No available calibration points

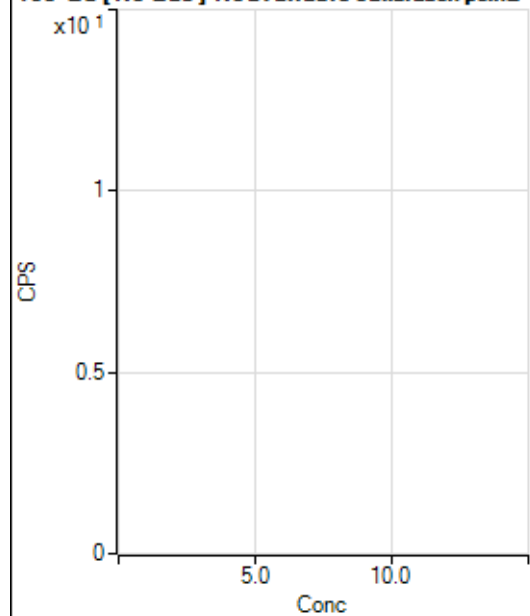
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			0.00		P	
2	☐			0.00		P	
3	☐			5.56		P	34.7
4	☐			14.45		P	48.0
5	☐			15.56		P	75.3
6	☐			47.78		P	14.5
7	☐			50.00		P	52.9
8	☐			11.11		P	45.8

156 Dy [No Gas] No available calibration points

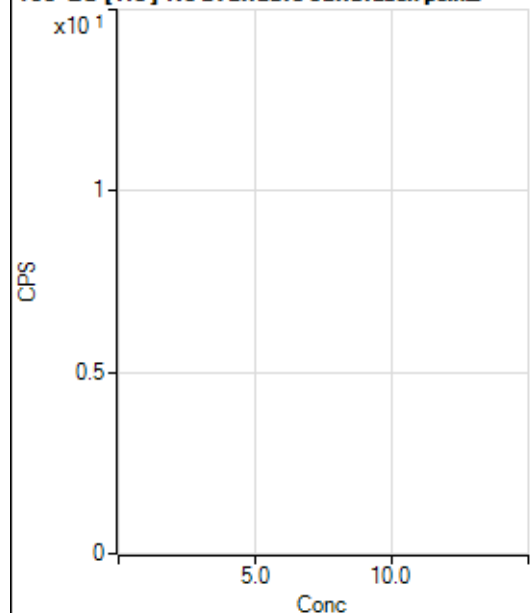
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			30.55		P	68.6
2	☐			19.45		P	24.7
3	☐			66.67		P	54.5
4	☐			69.45		P	25.0
5	☐			125.00		P	24.0
6	☐			233.34		P	12.9
7	☐			452.80		P	28.9
8	☐			1364.00		P	1.9

156 Dy [He] No available calibration points

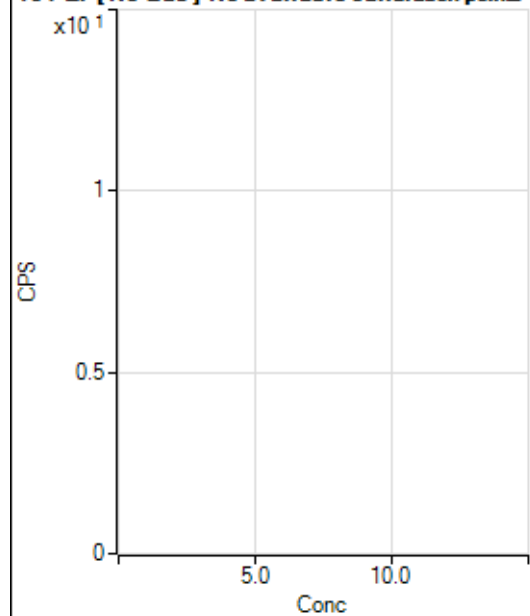
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			7.78		P	49.5
2	☐			3.33		P	100.
3	☐			16.67		P	40.0
4	☐			21.11		P	39.7
5	☐			51.11		P	10.0
6	☐			87.78		P	5.8
7	☐			173.34		P	15.3
8	☐			592.25		P	8.1

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

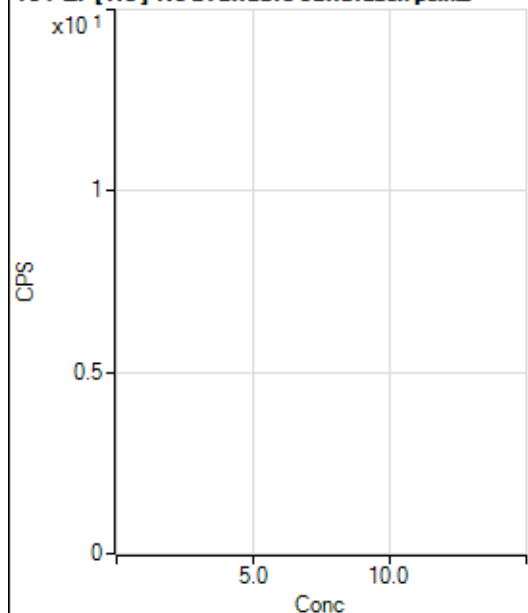
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			125.01		P	24.0
2	☐			194.45		P	15.1
3	☐			175.01		P	31.2
4	☐			222.23		P	17.7
5	☐			294.46		P	13.1
6	☐			363.90		P	8.0
7	☐			536.14		P	3.9
8	☐			1555.69		P	9.5

160 Gd [He] No available calibration points

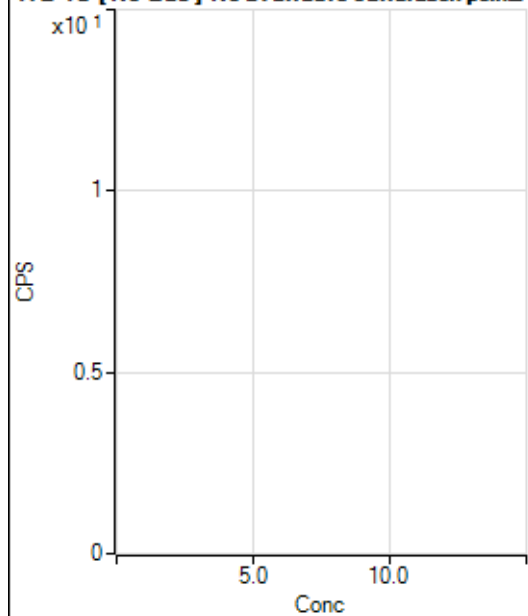
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			51.11		P	10.0
2	☐			60.00		P	24.2
3	☐			55.56		P	15.1
4	☐			93.33		P	23.4
5	☐			91.11		P	14.8
6	☐			158.89		P	17.8
7	☐			231.12		P	24.2
8	☐			798.92		P	3.6

164 Er [No Gas] No available calibration points

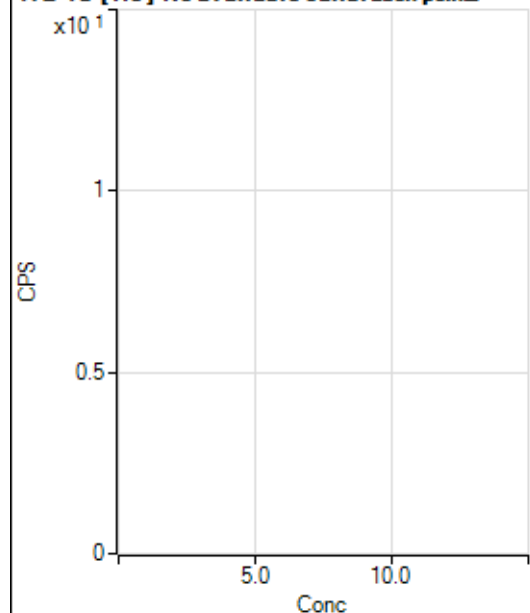
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			144.45		P	8.8
2	☐			113.89		P	29.6
3	☐			125.00		P	11.5
4	☐			194.45		P	13.1
5	☐			169.45		P	22.2
6	☐			188.90		P	20.8
7	☐			263.90		P	11.1
8	☐			297.23		P	8.6

164 Er [He] No available calibration points

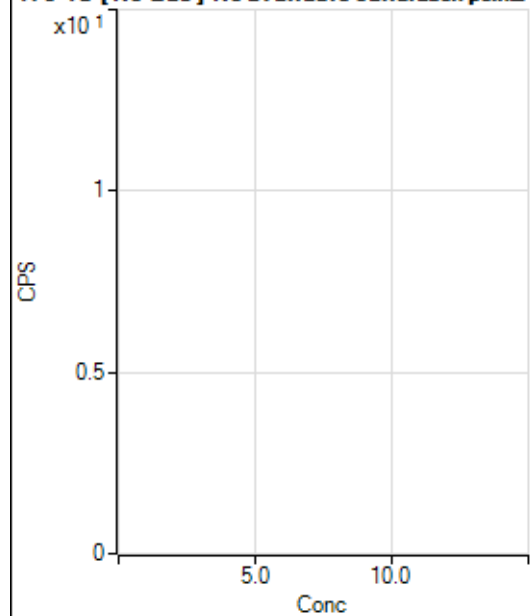
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			47.78		P	16.1
2	☐			42.22		P	12.1
3	☐			60.00		P	11.1
4	☐			52.22		P	13.3
5	☐			47.78		P	49.5
6	☐			100.00		P	12.0
7	☐			107.78		P	4.7
8	☐			134.45		P	26.5

172 Yb [No Gas] No available calibration points

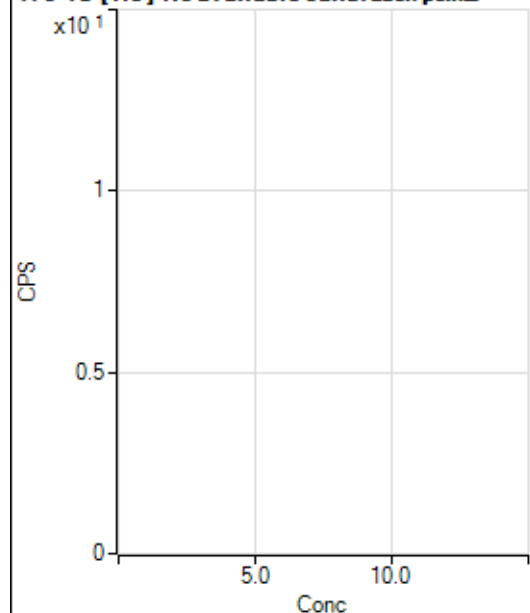
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			69.44		P	13.9
2	☐			33.33		P	66.1
3	☐			33.33		P	50.0
4	☐			50.00		P	33.3
5	☐			44.44		P	21.7
6	☐			83.34		P	20.0
7	☐			77.78		P	76.0
8	☐			113.89		P	49.8

172 Yb [He] No available calibration points

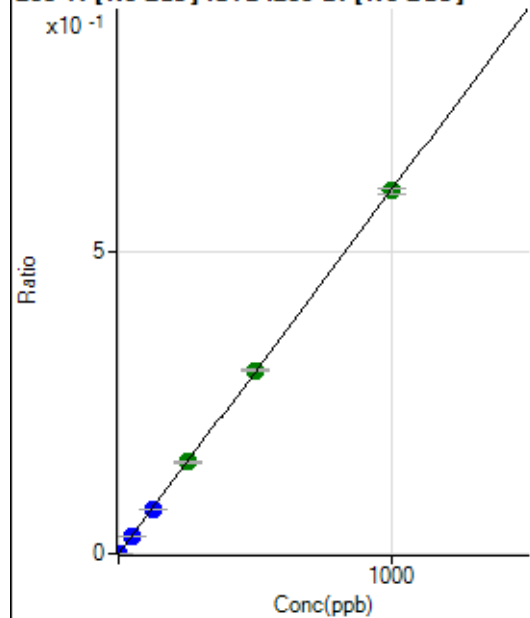
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			22.22		P	43.3
2	☐			25.93		P	12.4
3	☐			16.67		P	66.6
4	☐			16.67		P	33.3
5	☐			24.07		P	35.2
6	☐			35.18		P	9.1
7	☐			31.48		P	62.0
8	☐			50.00		P	33.3

176 Yb [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2425.30		P	10.2
2	☐			2341.94		P	0.7
3	☐			3831.20		P	3.3
4	☐			6373.92		P	1.3
5	☐			9770.60		P	0.6
6	☐			17909.84		P	1.7
7	☐			33646.16		P	2.2
8	☐			2180.81		P	4.9

176 Yb [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2107.62		P	8.8
2	☐			1976.12		P	7.2
3	☐			2524.36		P	6.4
4	☐			3302.33		P	5.3
5	☐			4962.12		P	3.3
6	☐			8324.99		P	2.8
7	☐			14856.78		P	1.5
8	☐			1646.43		P	7.9

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	300.01	0.0000	P	18.4
2	☐	1.000	0.949	7816.44	0.0006	P	4.0
3	☐	50.000	48.111	385789.26	0.0289	P	0.7
4	☐	125.000	122.979	975453.53	0.0740	P	1.2
5	☐	250.000	252.246	1942597.00	0.1517	A	1.4
6	☐	500.000	504.737	3891169.83	0.3035	A	1.3
7	☐	1000.000	997.417	7683151.82	0.5997	A	1.8
8	☐			1825.18	0.0002	P	13.0

$$y = 6.0122\text{E-}004 * x + 2.3173\text{E-}005$$

$$R = 1.0000$$

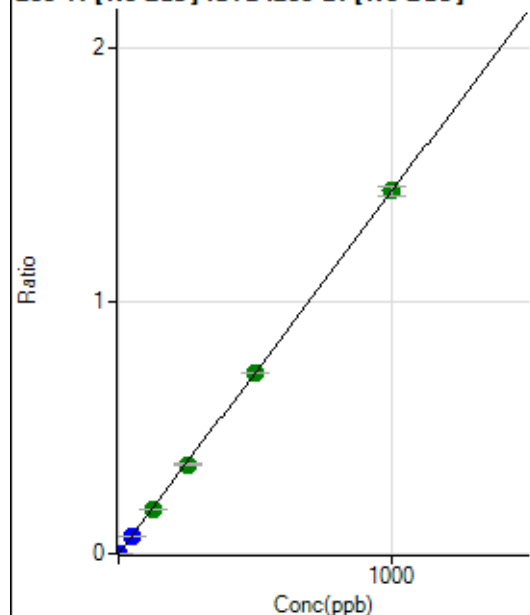
$$DL = 0.0213$$

$$BEC = 0.03854$$

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	730.60	0.0001	P	6.0
2	☐	1.000	0.967	18967.03	0.0014	P	5.2
3	☐	50.000	48.812	932450.07	0.0700	P	1.7
4	☐	125.000	123.617	2336286.45	0.1771	A	1.5
5	☐	250.000	246.386	4520844.89	0.3530	A	2.1
6	☐	500.000	498.737	9161389.70	0.7145	A	0.8
7	☐	1000.000	1001.768	18376648.50	1.4351	A	3.0
8	☐			4142.45	0.0004	P	10.8

$$y = 0.0014 * x + 5.6453E-005$$

$$R = 1.0000$$

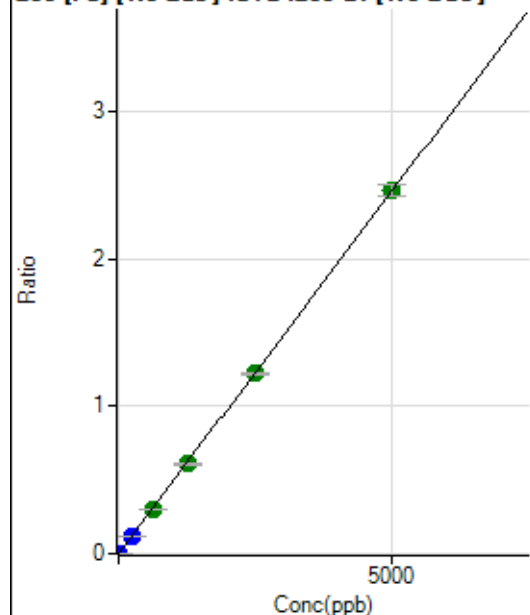
$$DL = 0.007124$$

$$BEC = 0.03941$$

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	479.65	0.0000	P	9.8
2	☐	1.000	0.924	6470.26	0.0005	P	4.9
3	☐	250.000	238.444	1563623.15	0.1174	P	2.2
4	☐	625.000	617.073	4005351.91	0.3037	A	0.4
5	☐	1250.000	1239.481	7811028.71	0.6099	A	2.5
6	☐	2500.000	2487.322	15693462.39	1.2239	A	0.8
7	☐	5000.000	5010.537	31572543.76	2.4655	A	3.3
8	☐			15707.95	0.0014	P	4.2

$$y = 4.9205E-004 * x + 3.7159E-005$$

$$R = 1.0000$$

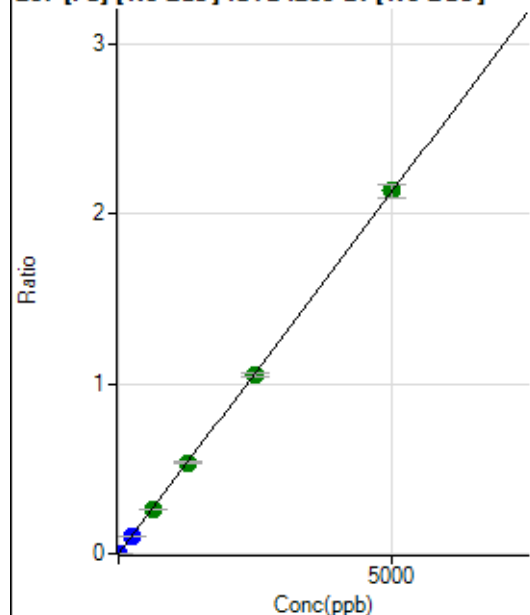
$$DL = 0.02225$$

$$BEC = 0.07552$$

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	361.12	0.0000	P	19.4
2	☐	1.000	0.922	5527.20	0.0004	P	6.0
3	☐	250.000	240.064	1360884.36	0.1021	P	2.1
4	☐	625.000	619.108	3473292.12	0.2634	A	1.7
5	☐	1250.000	1253.762	6830090.60	0.5333	A	2.0
6	☐	2500.000	2465.189	13445250.30	1.0486	A	1.9
7	☐	5000.000	5017.698	27329085.80	2.1343	A	3.4
8	☐			13720.46	0.0012	P	0.9

$$y = 4.2535\text{E-}004 * x + 2.7997\text{E-}005$$

$$R = 1.0000$$

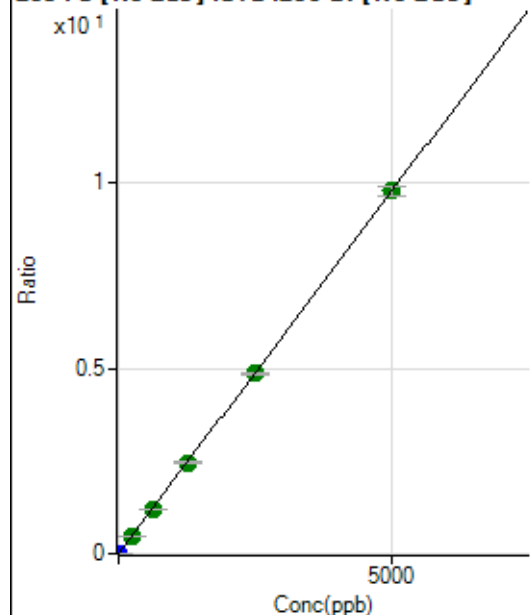
$$DL = 0.0383$$

$$BEC = 0.06582$$

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	1874.16	0.0001	P	5.4
2	☐	1.000	0.943	26142.43	0.0020	P	4.7
3	☐	250.000	243.868	6347709.53	0.4764	A	1.2
4	☐	625.000	615.160	15844822.52	1.2015	A	1.8
5	☐	1250.000	1251.194	31294435.42	2.4435	A	1.8
6	☐	2500.000	2487.733	62293897.00	4.8583	A	1.0
7	☐	5000.000	5007.372	125223925.0	9.7788	A	2.9
8	☐			62513.54	0.0054	P	2.8

$$y = 0.0020 * x + 1.4511\text{E-}004$$

$$R = 1.0000$$

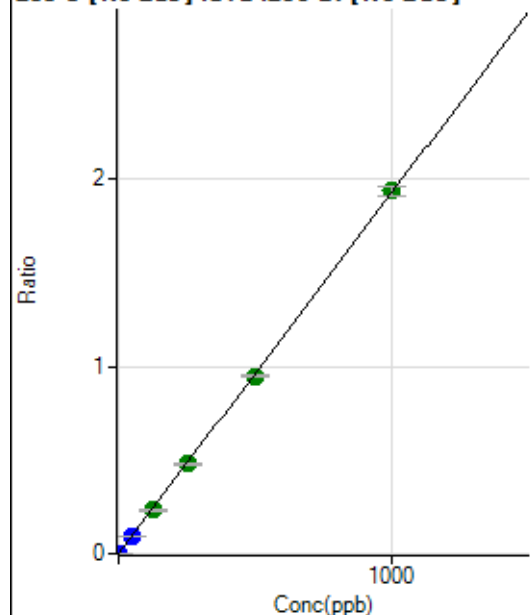
$$DL = 0.01206$$

$$BEC = 0.07431$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	11.11	0.0000	P	86.6
2	☐	1.000	0.920	23372.16	0.0018	P	3.6
3	☐	50.000	46.861	1203886.40	0.0904	P	1.7
4	☐	125.000	120.352	3060428.84	0.2321	A	1.8
5	☐	250.000	249.042	6150221.53	0.4802	A	3.1
6	☐	500.000	491.409	12148616.42	0.9475	A	1.1
7	☐	1000.000	1005.273	24823419.31	1.9384	A	2.6
8	☐			3053.25	0.0003	P	1.8

$$y = 0.0019 * x + 8.4681E-007$$

$$R = 0.9999$$

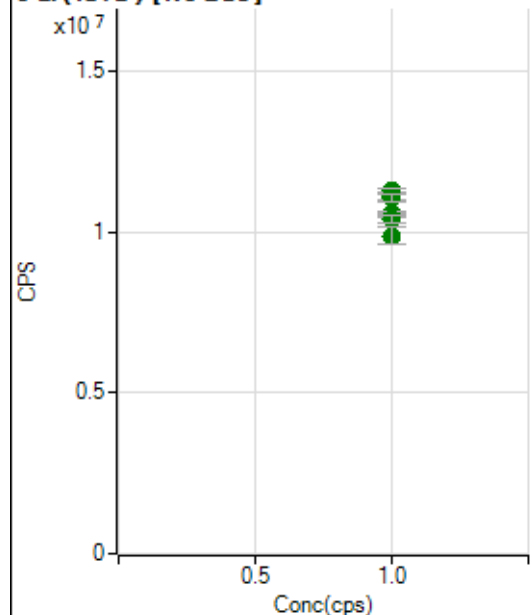
$$DL = 0.001141$$

$$BEC = 0.0004392$$

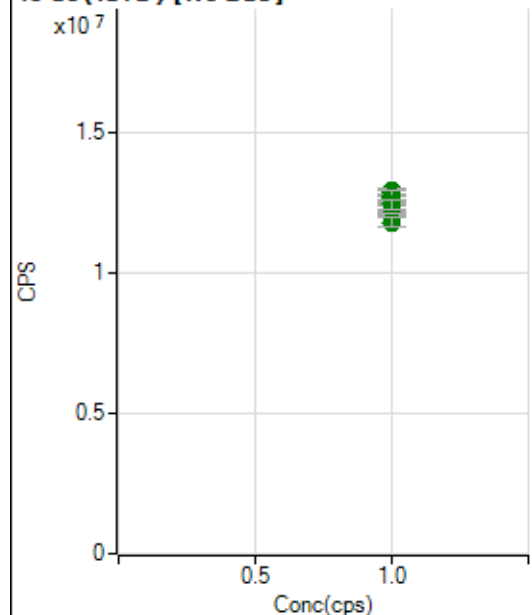
Weight: <None>

Min Conc: 0

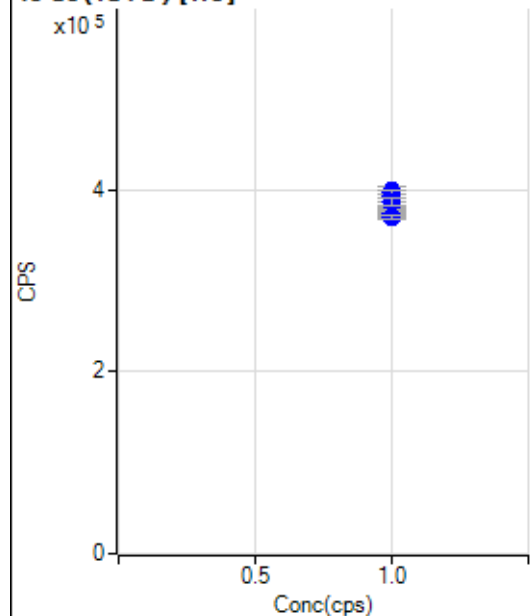
6 Li (ISTD) [No Gas]



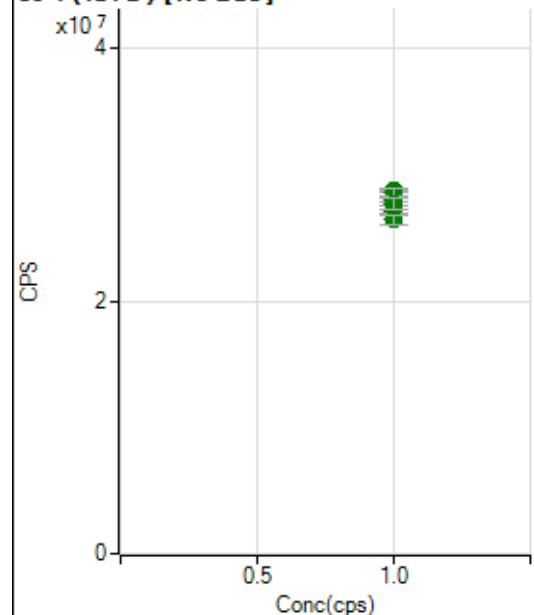
	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		11127408.31		A	1.6
2	☐	1.000		11157422.56		A	2.2
3	☐	1.000		11291875.67		A	1.3
4	☐	1.000		11061716.96		A	2.2
5	☐	1.000		10622052.99		A	0.7
6	☐	1.000		10562760.77		A	2.0
7	☐	1.000		10407839.09		A	2.3
8	☐	1.000		9902525.33		A	4.9

45 Sc (ISTD) [No Gas]

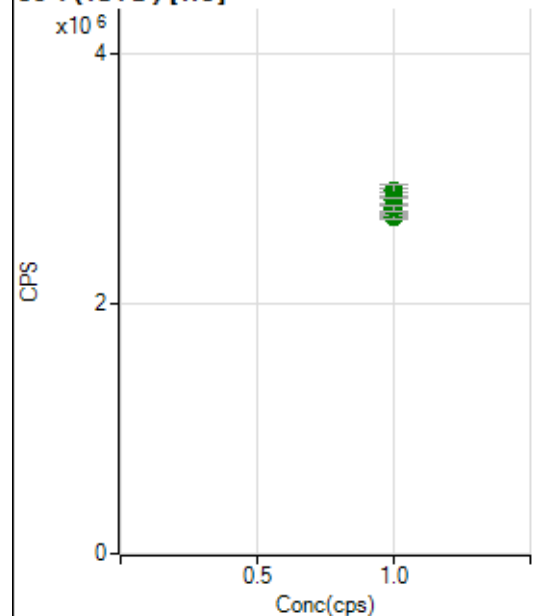
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		12639669.67		A	1.3
2	☐	1.000		12872529.11		A	1.9
3	☐	1.000		12917543.00		A	1.3
4	☐	1.000		12702016.75		A	3.5
5	☐	1.000		12134705.79		A	1.3
6	☐	1.000		12251661.90		A	2.6
7	☐	1.000		12434225.23		A	2.4
8	☐	1.000		11801362.60		A	3.0

45 Sc (ISTD) [He]

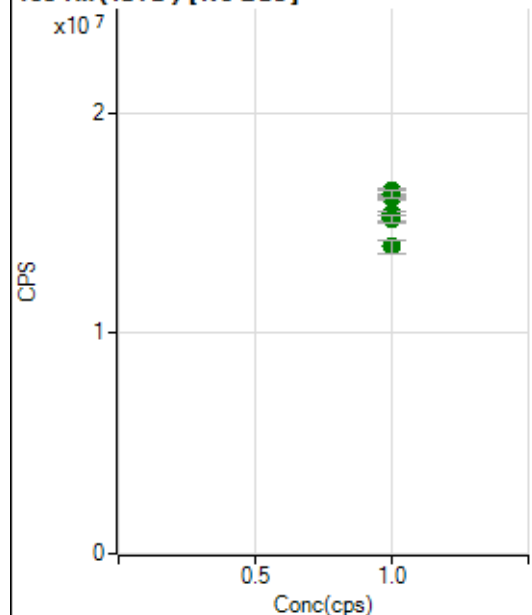
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		377345.01		P	1.8
2	☐	1.000		399062.42		P	2.2
3	☐	1.000		397253.58		P	0.8
4	☐	1.000		394047.19		P	3.1
5	☐	1.000		373454.68		P	1.8
6	☐	1.000		370134.88		P	1.5
7	☐	1.000		382322.77		P	2.0
8	☐	1.000		386770.22		P	2.5

89 Y (ISTD) [No Gas]

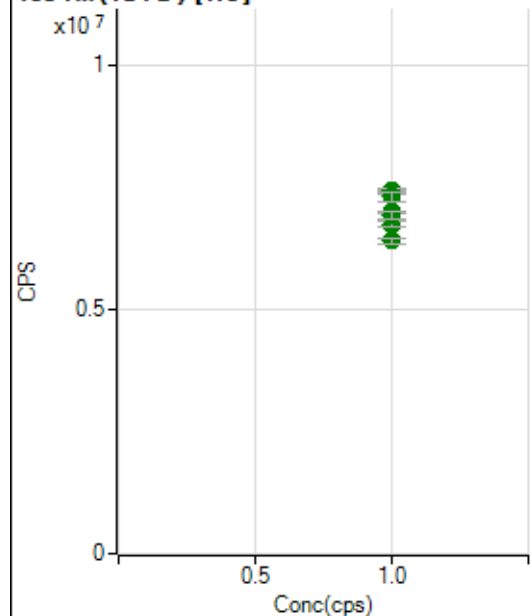
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		28011965.41		A	2.6
2	☐	1.000		28323832.63		A	3.3
3	☐	1.000		28748660.41		A	0.5
4	☐	1.000		28626897.07		A	2.1
5	☐	1.000		27183950.71		A	2.8
6	☐	1.000		27155311.82		A	0.9
7	☐	1.000		27761708.48		A	3.0
8	☐	1.000		26484618.21		A	2.7

89 Y (ISTD) [He]

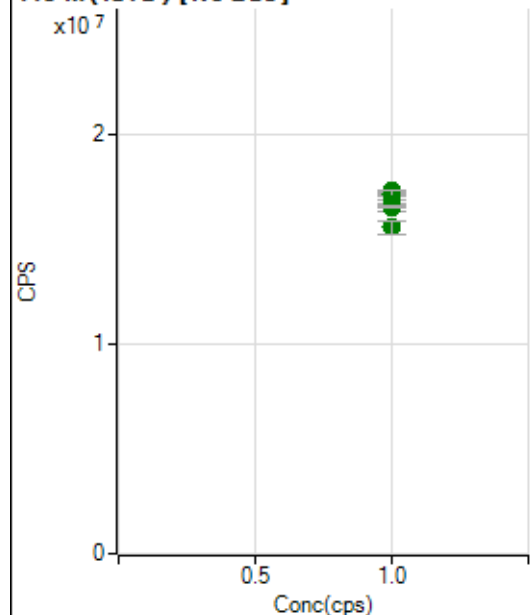
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2743958.88		A	2.1
2	☐	1.000		2886002.29		A	2.5
3	☐	1.000		2897321.87		A	1.0
4	☐	1.000		2895579.47		A	3.4
5	☐	1.000		2694519.20		A	0.7
6	☐	1.000		2693575.90		A	1.2
7	☐	1.000		2817979.75		A	2.0
8	☐	1.000		2759761.87		A	1.4

103 Rh (ISTD) [No Gas]

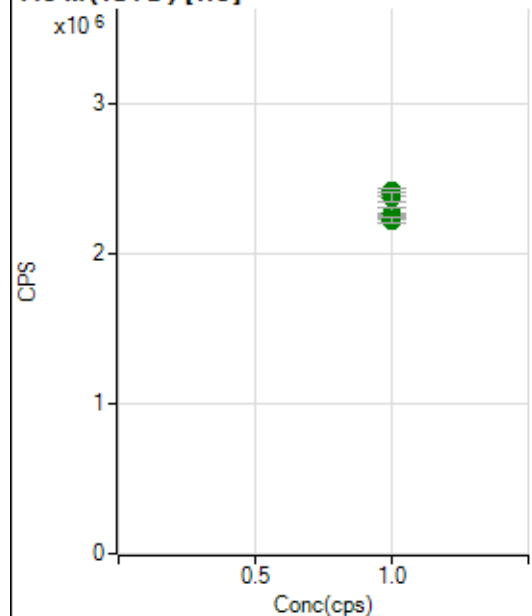
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		16177300.36		A	1.8
2	☐	1.000		16459761.48		A	1.7
3	☐	1.000		16343562.69		A	1.7
4	☐	1.000		16315664.08		A	2.0
5	☐	1.000		15430215.62		A	0.9
6	☐	1.000		15300267.01		A	2.7
7	☐	1.000		15179601.21		A	2.1
8	☐	1.000		13935811.86		A	4.3

103 Rh (ISTD) [He]

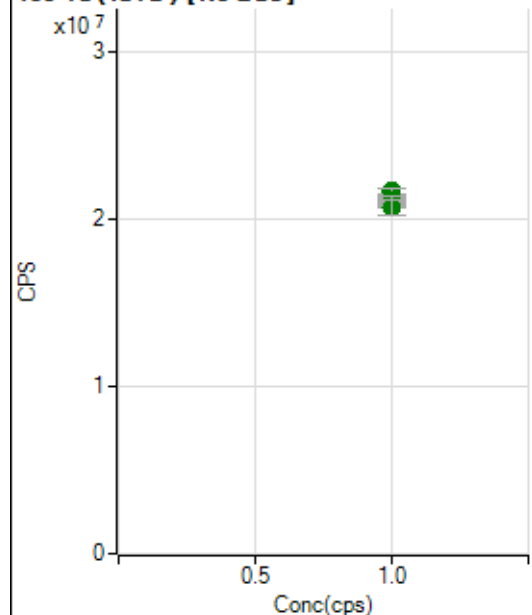
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7002802.25		A	0.7
2	☐	1.000		7424211.42		A	0.6
3	☐	1.000		7438376.97		A	1.6
4	☐	1.000		7321411.63		A	2.9
5	☐	1.000		6931396.70		A	2.7
6	☐	1.000		6750318.58		A	1.7
7	☐	1.000		6938759.55		A	2.5
8	☐	1.000		6423908.65		A	1.8

115 In (ISTD) [No Gas]

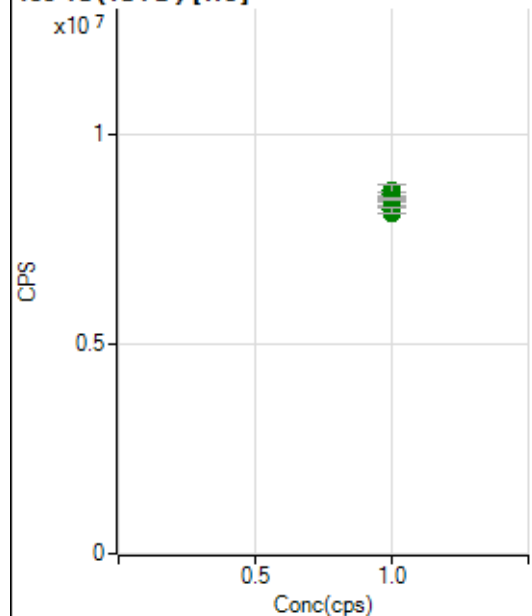
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		17057443.82		A	1.8
2	☐	1.000		17150932.59		A	0.6
3	☐	1.000		17324980.43		A	0.7
4	☐	1.000		17153379.10		A	2.8
5	☐	1.000		16674296.44		A	0.6
6	☐	1.000		16499686.09		A	1.6
7	☐	1.000		16552269.56		A	0.4
8	☐	1.000		15572243.28		A	4.1

115 In (ISTD) [He]

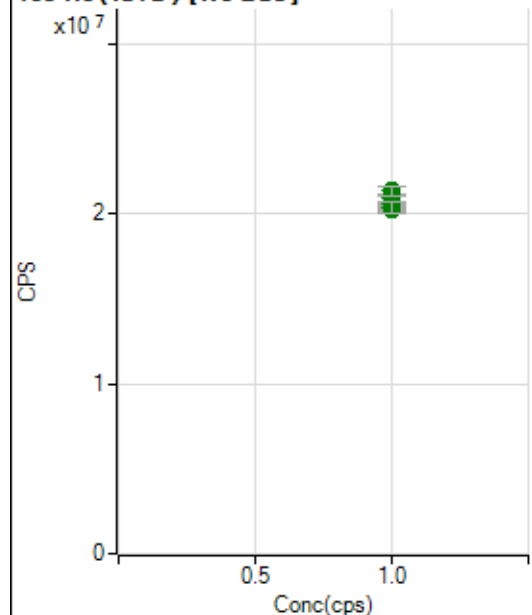
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2263422.19		A	0.1
2	☐	1.000		2403190.31		A	1.5
3	☐	1.000		2423483.17		A	1.1
4	☐	1.000		2380902.70		A	2.3
5	☐	1.000		2243608.27		A	2.7
6	☐	1.000		2226579.82		A	1.2
7	☐	1.000		2275930.09		A	2.7
8	☐	1.000		2230971.35		A	1.8

159 Tb (ISTD) [No Gas]

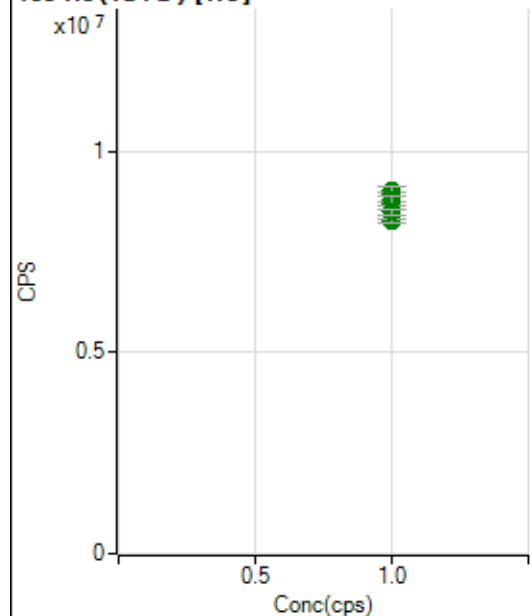
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		21017559.69		A	3.4
2	☐	1.000		21092694.27		A	2.0
3	☐	1.000		21698609.12		A	1.2
4	☐	1.000		21621480.23		A	2.5
5	☐	1.000		20886250.52		A	1.2
6	☐	1.000		21167768.85		A	2.6
7	☐	1.000		21212230.52		A	1.8
8	☐	1.000		20671326.64		A	4.4

159 Tb (ISTD) [He]

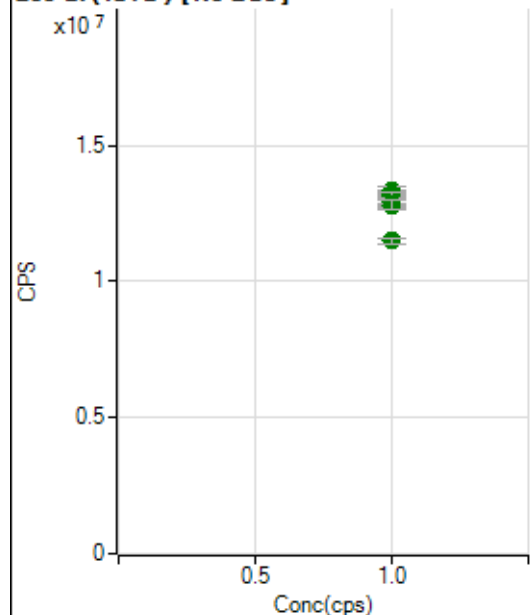
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		8101717.17		A	0.3
2	☐	1.000		8423658.42		A	1.4
3	☐	1.000		8552693.90		A	1.1
4	☐	1.000		8637896.54		A	3.1
5	☐	1.000		8214955.50		A	2.2
6	☐	1.000		8177533.84		A	1.7
7	☐	1.000		8434272.86		A	0.5
8	☐	1.000		8185867.38		A	1.8

165 Ho (ISTD) [No Gas]

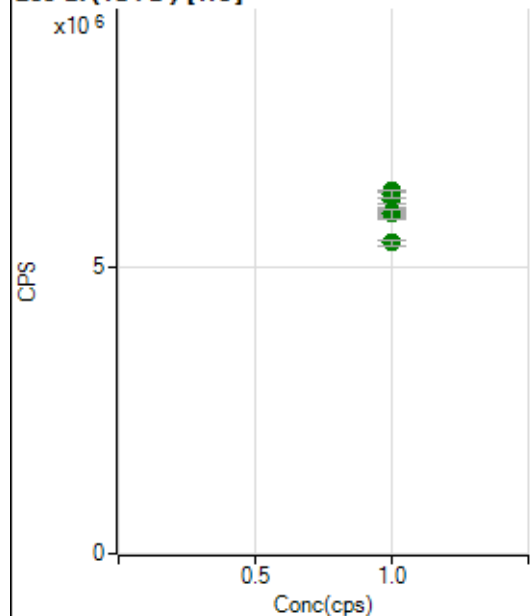
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		20434813.82		A	1.1
2	☐	1.000		20634846.81		A	1.3
3	☐	1.000		21156758.98		A	0.5
4	☐	1.000		20913085.71		A	1.4
5	☐	1.000		20239923.72		A	0.8
6	☐	1.000		20553795.42		A	1.9
7	☐	1.000		21358232.77		A	2.6
8	☐	1.000		20412114.00		A	3.1

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		8249063.28		A	1.3
2	☐	1.000		8695897.72		A	0.7
3	☐	1.000		8931607.71		A	0.6
4	☐	1.000		9012692.02		A	2.8
5	☐	1.000		8479687.51		A	1.9
6	☐	1.000		8482076.40		A	2.0
7	☐	1.000		8781913.76		A	2.8
8	☐	1.000		8481947.09		A	1.9

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		12927769.67		A	2.8
2	☐	1.000		13168852.16		A	2.3
3	☐	1.000		13327046.19		A	2.2
4	☐	1.000		13190351.33		A	1.6
5	☐	1.000		12808677.59		A	1.2
6	☐	1.000		12821818.00		A	0.5
7	☐	1.000		12813094.81		A	3.1
8	☐	1.000		11503403.99		A	1.8

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5941104.15		A	1.2
2	☐	1.000		6164578.87		A	1.6
3	☐	1.000		6332059.84		A	0.5
4	☐	1.000		6273963.86		A	2.4
5	☐	1.000		5985816.23		A	1.7
6	☐	1.000		5931603.24		A	1.7
7	☐	1.000		5929349.57		A	2.7
8	☐	1.000		5431328.32		A	1.9

US EPA Tune Check Report

Operator Name Jaswal
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\P8091621MS.b
Acq. Date-Time 2021-09-16 11:33:31
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		28889	288886.67			1.263	5.000
24		161615	1616151.12			1.009	5.000
25		21845	218451.78			1.577	5.000
26		24944	249437.88			1.544	5.000
59		40486	404855.40			1.260	5.000
113		18977	189768.91			1.239	5.000
115		57699	576992.65			1.409	5.000
206		26763	267630.87			1.395	5.000
207		22516	225161.68			0.919	5.000
208		56605	566049.56			1.294	5.000
220		0	2.60			34.401	

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

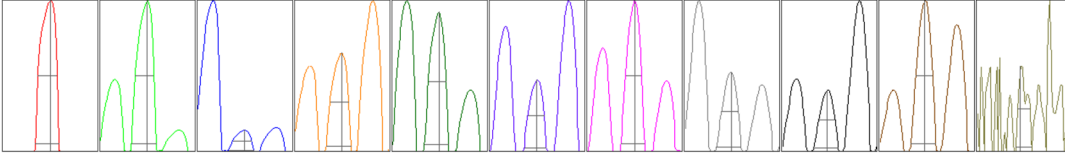
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	29137	29028	29096	28931	28251
24	163961	162319	161174	161031	159590
25	21994	21980	22172	21804	21275
26	25016	25076	25348	24973	24306
59	40754	40552	41029	40422	39670
113	19091	18996	19172	19053	18572
115	58087	57822	58347	57952	56288
206	27097	26758	27176	26393	26391
207	22746	22588	22599	22451	22197
208	57161	56876	57334	55936	55718

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	50261.94	9.05	8.90 - 9.10	
24	286581.07	24.00	23.90 - 24.10	
25	38829.37	25.00	24.90 - 25.10	
26	44668.22	26.00	25.90 - 26.10	
59	76563.40	59.00	58.90 - 59.10	
113	38224.14	113.00	112.90 - 113.10	
115	118154.73	115.05	114.90 - 115.10	
206	52117.11	206.00	205.90 - 206.10	
207	44024.76	206.95	206.90 - 207.10	
208	108365.70	207.95	207.90 - 208.10	
220	0.45	219.90	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.61	0.739	0.900	
24	0.59	0.783	0.900	
25	0.59	0.782	0.900	
26	0.59	0.785	0.900	
59	0.56	0.769	0.900	
113	0.51	0.692	0.900	
115	0.50	0.755	0.900	
206	0.52	0.776	0.900	
207	0.52	0.778	0.900	
208	0.53	0.784	0.900	
220	0.40	0.490		

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode --- Nebulizer Gas 0.75 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	1.40 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	9.8 V	Deflect	13.4 V
Extract 2	-220.0 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	160 V		

QP Parameters

Mass Gain	123	Axis Gain	0.9992	QP Bias	-4.0 V
Mass Offset	125	Axis Offset	-0.01		

Hardware Settings

Torch

Torch H	1.1 mm	Torch V	-0.6 mm
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EM

Discriminator	3.8 mV	Analog HV	2238 V	Pulse HV	1516 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		8756	87561.98			1.607	
89		33862	338618.83			1.971	
205		23856	238558.42			1.961	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	8658	8943	8585	8827	8767
89	33375	34706	33047	33912	34268
205	23679	24269	23152	23904	24275

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.75 L/min	Dilution Gas	0.40 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	9.8 V	Deflect	3.4 V
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US EPA Tune Check Report

Extract 2	-220.0 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	190 V		
QP Parameters					
Mass Gain	123	Axis Gain	0.9992	QP Bias	-13.0 V
Mass Offset	125	Axis Offset	-0.01		
Hardware Settings					
Torch					
Torch H	1.1 mm	Torch V	-0.6 mm		
EM					
Discriminator	3.8 mV	Analog HV	2238 V	Pulse HV	1516 V