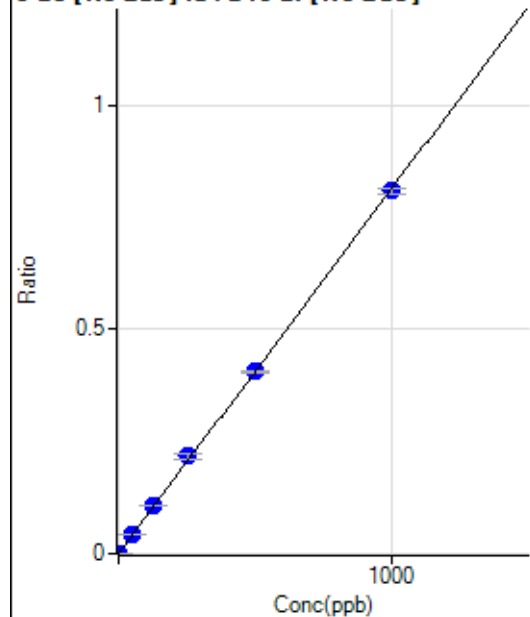


Batch Folder: D:\Agilent\ICPMH\1\DATA\P7071924-MS.b\
Analysis File: P7071924-MS.batch.bin
DA Date-Time: 2024-07-19 18:13:20
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.d	S00	2024-07-19 11:33:46
2	005CALS.d	S02	2024-07-19 11:37:06
3	006CALS.d	S03	2024-07-19 11:40:28
4	007CALS.d	S04	2024-07-19 11:43:45
5	008CALS.d	S05	2024-07-19 11:46:56
6	009CALS.d	S06	2024-07-19 11:49:57
7	010CALS.d	S07	2024-07-19 11:52:55
8	011CALS.d	S08	2024-07-19 11:55:48

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	71.11	0.0001	P	29.8
2	☐	1.000	1.075	625.57	0.0010	P	2.2
3	☐	50.000	52.797	27220.51	0.0431	P	2.5
4	☐	125.000	132.749	66836.02	0.1081	P	0.3
5	☐	250.000	266.235	128236.54	0.2167	P	5.1
6	☐	500.000	500.463	247343.12	0.4073	P	1.1
7	☐	1000.000	994.601	490777.19	0.8093	P	1.8
8	☐			808.92	0.0014	P	17.4

$$y = 8.1356E-004 * x + 1.2001E-004$$

$$R = 0.9998$$

$$DL = 0.1317$$

$$BEC = 0.1475$$

Weight: <None>

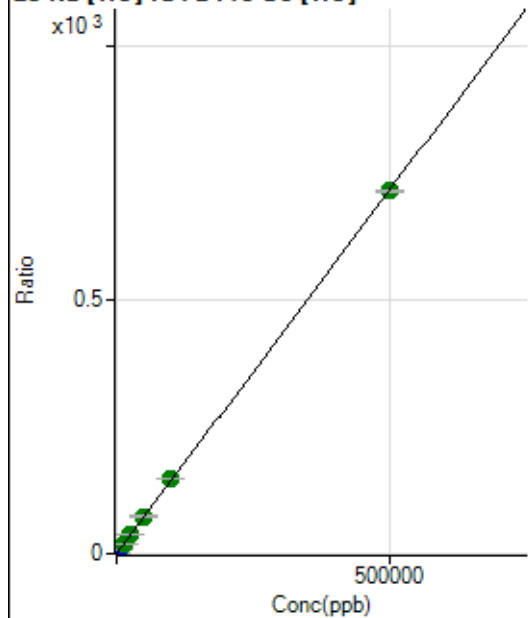
Min Conc: 0

12 C [No Gas] No available calibration points

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

12 C [He] No available calibration points

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

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	13983.11	0.1089	P	9.7
2	☐	500.000	498.837	99847.38	0.8221	P	0.6
3	☐	5000.000	5395.949	951891.93	7.8237	P	1.2
4	☐	12500.000	13121.015	2255882.92	18.8685	A	0.4
5	☐	25000.000	25876.588	4339112.43	37.1055	A	1.8
6	☐	50000.000	51363.156	8497150.57	73.5445	A	1.2
7	☐	100000.00	103730.45	16867182.94	148.4158	A	0.1
8	☐	500000.00	499054.28	82111252.67	713.6236	A	0.6

$$y = 0.0014 * x + 0.1089$$

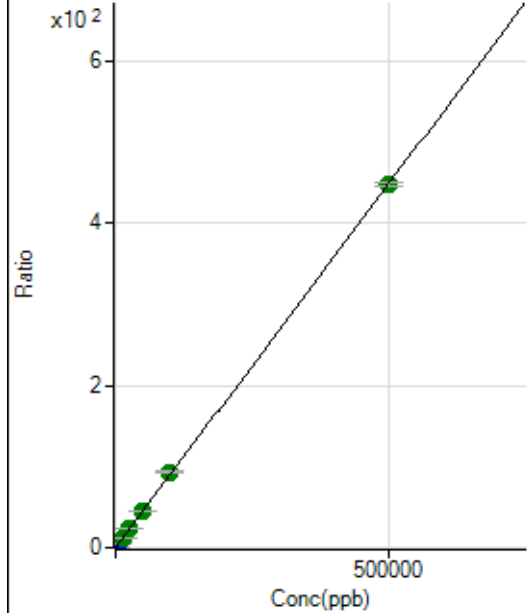
$$R = 1.0000$$

$$DL = 22.14$$

$$BEC = 76.18$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1214.51	0.0095	P	15.8
2	☐	500.000	505.247	56202.16	0.4627	P	0.5
3	☐	5000.000	5428.459	593627.52	4.8791	P	1.2
4	☐	12500.000	13329.108	1430655.52	11.9663	A	0.8
5	☐	25000.000	26136.812	2742927.80	23.4554	A	1.6
6	☐	50000.000	51077.606	5294863.78	45.8284	A	1.3
7	☐	100000.00	104282.14	10632141.23	93.5552	A	0.5
8	☐	500000.00	498953.95	51498321.45	447.5934	A	1.2

$$y = 8.9704\text{E-}004 * x + 0.0095$$

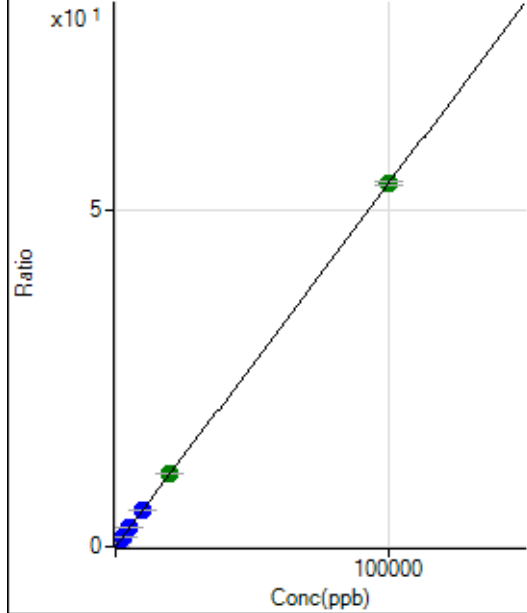
$$R = 1.0000$$

$$DL = 5.024$$

$$BEC = 10.59$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	76.67	0.0006	P	31.1
2	☐	20.000	19.393	1340.08	0.0110	P	5.0
3	☐	1000.000	1053.128	69039.77	0.5675	P	1.5
4	☐	2500.000	2698.345	173719.02	1.4530	P	0.8
5	☐	5000.000	5145.622	323969.42	2.7703	P	1.5
6	☐	10000.000	10125.874	629804.26	5.4510	P	0.8
7	☐	20000.000	20043.469	1226156.45	10.7893	A	0.6
8	☐	100000.00	99965.948	6191205.67	53.8088	A	1.1

$$y = 5.3827\text{E-}004 * x + 5.9618\text{E-}004$$

$$R = 1.0000$$

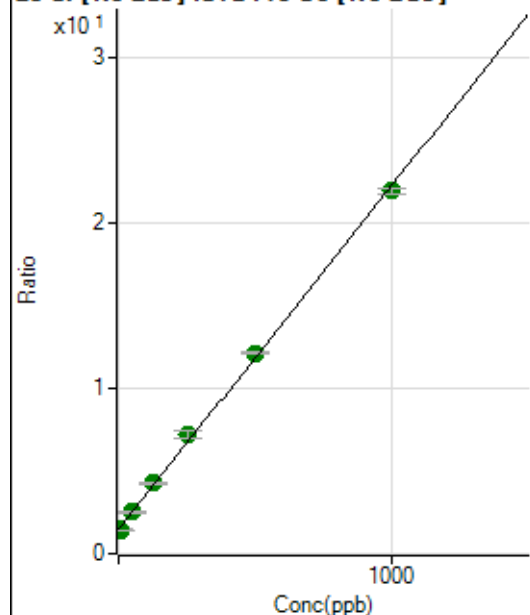
$$DL = 1.032$$

$$BEC = 1.108$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2093768.35	1.4697	A	7.2
2	☐	10.000	-5.231	2038200.56	1.3612	A	1.0
3	☐	50.000	49.922	3834185.40	2.5055	A	1.0
4	☐	125.000	134.801	6399484.21	4.2667	A	1.8
5	☐	250.000	276.211	10494777.07	7.2009	A	6.2
6	☐	500.000	514.008	18247757.23	12.1351	A	0.6
7	☐	1000.000	985.374	33322627.28	21.9157	A	1.6
8	☐			2216440.52	1.5269	A	1.1

$$y = 0.0207 * x + 1.4697$$

$$R = 0.9992$$

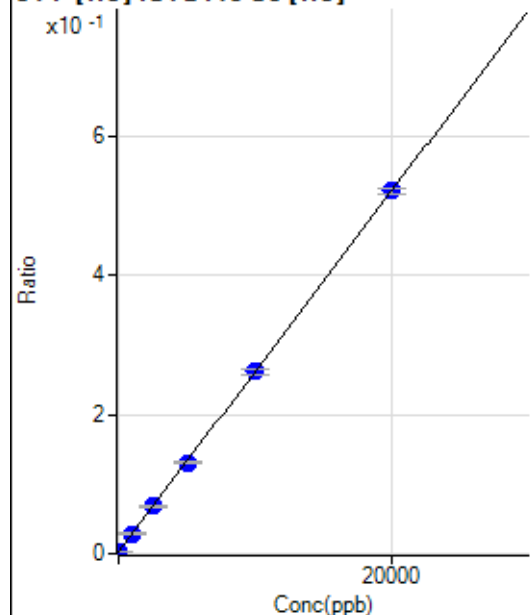
$$DL = 15.4$$

$$BEC = 70.83$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	-17.143	304.45	0.0024	P	9.0
2	☐	0.000	17.143	395.56	0.0033	P	3.6
3	☐	1000.000	1000.998	3492.66	0.0287	P	5.3
4	☐	2500.000	2534.037	8176.69	0.0684	P	2.3
5	☐	5000.000	4945.119	15295.50	0.1308	P	1.7
6	☐	10000.000	9980.386	30164.18	0.2611	P	2.5
7	☐	20000.000	20019.223	59197.25	0.5209	P	1.3
8	☐			323.34	0.0028	P	9.2

$$y = 2.5878E-005 * x + 0.0028$$

$$R = 1.0000$$

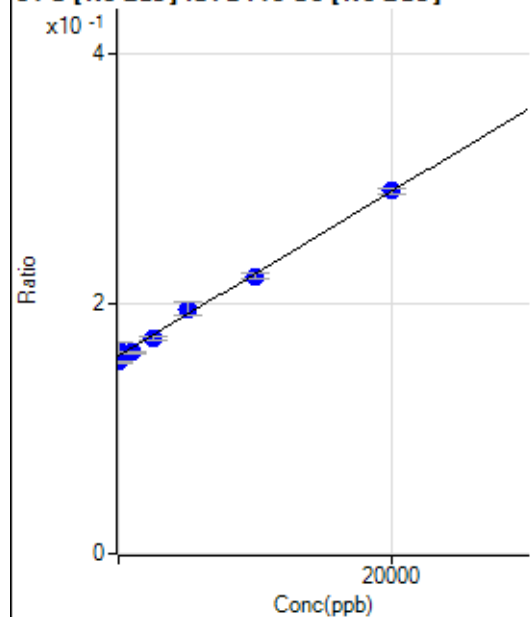
$$DL = 19.23$$

$$BEC = 108.7$$

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	742.883	232779.42	0.1633	P	6.6
2	☐	0.000	-742.883	229936.71	0.1536	P	1.2
3	☐	1000.000	372.208	246232.63	0.1609	P	0.8
4	☐	2500.000	2154.507	258941.72	0.1726	P	2.0
5	☐	5000.000	5713.822	285859.26	0.1961	P	5.6
6	☐	10000.000	9713.161	334487.72	0.2224	P	1.5
7	☐	20000.000	20039.540	441663.56	0.2905	P	1.9
8	☐			230722.31	0.1589	P	1.9

$$y = 6.5885E-006 * x + 0.1585$$

$$R = 0.9967$$

$$DL = 2857$$

$$BEC = 2.405E+04$$

Weight: <None>

Min Conc: 0

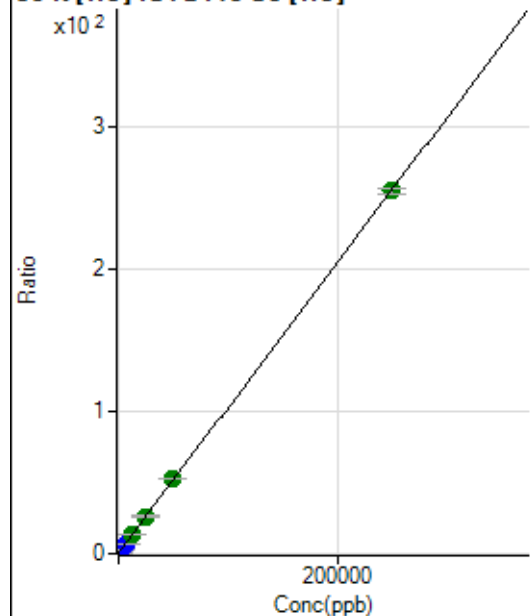
35 Cl [No Gas] No available calibration points



	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	73241.55	0.5702	P	9.2
2	☐	500.000	526.814	134340.64	1.1061	P	0.2
3	☐	2500.000	2695.955	403040.72	3.3125	P	0.9
4	☐	6250.000	6723.850	885886.53	7.4096	P	0.1
5	☐	12500.000	12732.654	1581050.53	13.5217	A	3.0
6	☐	25000.000	25231.658	3031241.76	26.2355	A	1.1
7	☐	50000.000	50836.052	5941212.90	52.2798	A	0.9
8	☐	250000.00	249784.13	29297843.46	254.6466	A	1.6

$$y = 0.0010 * x + 0.5702$$

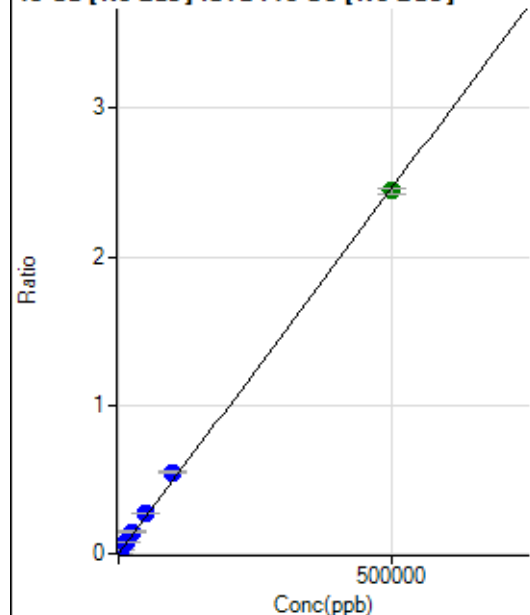
$$R = 1.0000$$

$$DL = 154.1$$

$$BEC = 560.6$$

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	221.12	0.0002	P	14.1
2	☐	500.000	499.160	3908.32	0.0026	P	2.1
3	☐	5000.000	5807.565	43937.88	0.0287	P	0.3
4	☐	12500.000	14732.249	108873.37	0.0726	P	2.6
5	☐	25000.000	29787.189	213674.51	0.1466	P	6.3
6	☐	50000.000	56106.322	415088.19	0.2760	P	0.7
7	☐	100000.00	111716.89	835440.89	0.5495	P	1.9
8	☐	500000.00	496742.74	3545692.38	2.4427	A	1.6

$$y = 4.9171\text{E-}006 * x + 1.5557\text{E-}004$$

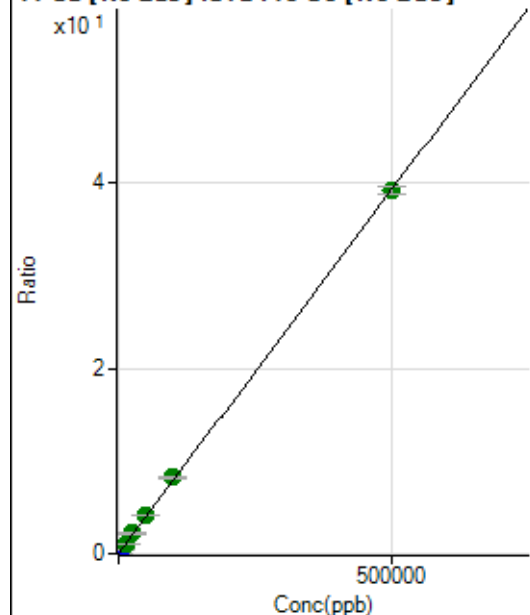
$$R = 0.9997$$

$$DL = 13.34$$

$$BEC = 31.64$$

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	36705.53	0.0258	P	8.0
2	☐	500.000	470.068	93868.01	0.0627	P	1.4
3	☐	5000.000	5619.185	714714.00	0.4670	P	0.3
4	☐	12500.000	13628.019	1643836.12	1.0959	A	1.7
5	☐	25000.000	27510.648	3186235.47	2.1861	A	6.0
6	☐	50000.000	52172.898	6199712.69	4.1228	A	0.4
7	☐	100000.00	104272.14	12488834.68	8.2140	A	1.9
8	☐	500000.00	498768.38	56889157.49	39.1928	A	2.1

$$y = 7.8527\text{E-}005 * x + 0.0258$$

$$R = 1.0000$$

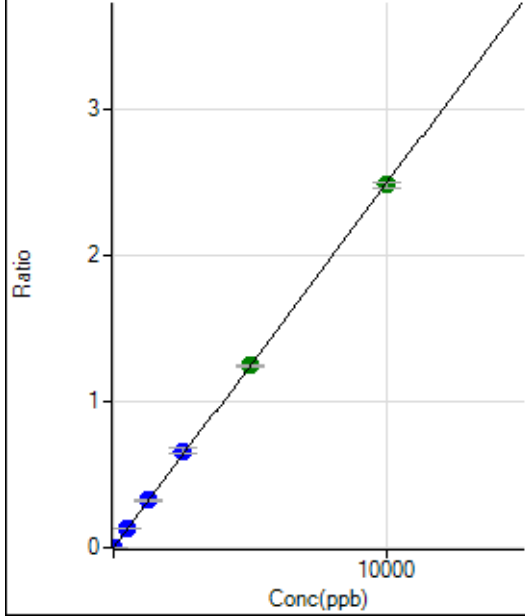
$$DL = 78.72$$

$$BEC = 328.2$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	140.00	0.0001	P	15.3
2	☐	5.000	4.364	1773.46	0.0012	P	4.6
3	☐	500.000	513.950	195863.12	0.1280	P	1.0
4	☐	1250.000	1302.069	486098.90	0.3241	P	2.1
5	☐	2500.000	2648.056	960365.55	0.6590	P	6.5
6	☐	5000.000	4989.573	1867205.41	1.2417	A	0.3
7	☐	10000.000	9960.994	3768905.22	2.4788	A	1.9
8	☐			778.92	0.0005	P	7.7

$$y = 2.4884\text{E-}004 * x + 9.8527\text{E-}005$$

$$R = 0.9999$$

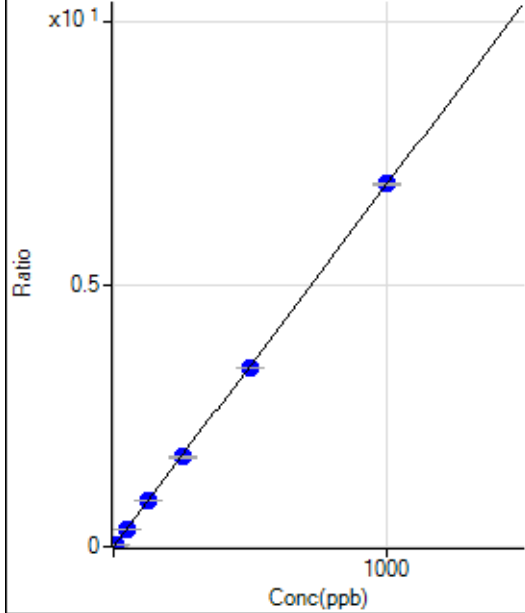
$$DL = 0.182$$

$$BEC = 0.3959$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	15.56	0.0001	P	12.5
2	☐	5.000	4.820	4051.69	0.0334	P	2.3
3	☐	50.000	50.008	41971.49	0.3450	P	1.7
4	☐	125.000	125.130	103182.60	0.8630	P	0.1
5	☐	250.000	249.463	201180.81	1.7204	P	2.3
6	☐	500.000	495.020	394431.99	3.4138	P	0.7
7	☐	1000.000	1002.608	785738.64	6.9142	P	0.9
8	☐			291.12	0.0025	P	22.6

$$y = 0.0069 * x + 1.2073\text{E-}004$$

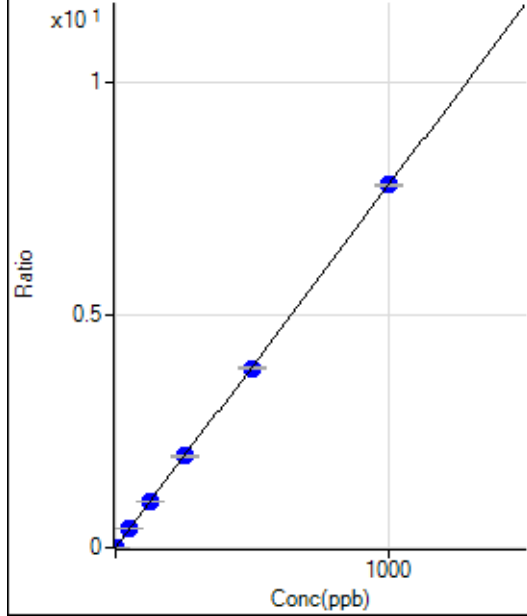
$$R = 1.0000$$

$$DL = 0.00659$$

$$BEC = 0.01751$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	187.78	0.0014	P	19.9
2	☐	2.000	1.937	2005.71	0.0165	P	4.8
3	☐	50.000	50.867	48328.19	0.3972	P	1.1
4	☐	125.000	127.642	118905.00	0.9945	P	0.7
5	☐	250.000	253.544	230843.92	1.9741	P	2.1
6	☐	500.000	495.304	445412.08	3.8550	P	0.7
7	☐	1000.000	1001.088	885306.99	7.7902	P	0.6
8	☐			7880.48	0.0685	P	8.3

$$y = 0.0078 * x + 0.0014$$

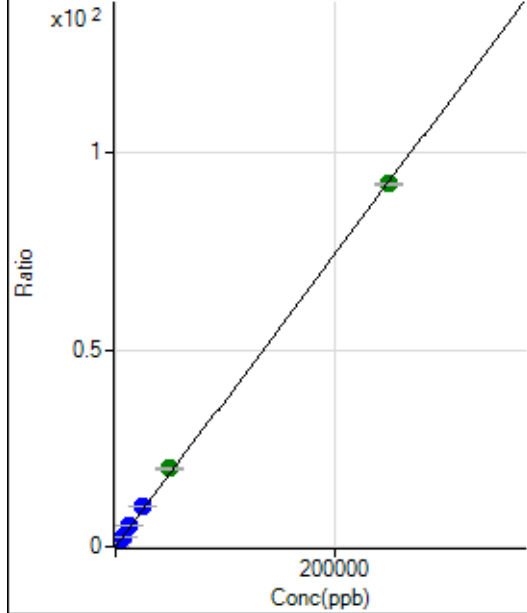
$$R = 1.0000$$

$$DL = 0.1111$$

$$BEC = 0.186$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	1234.51	0.0097	P	15.3
2	☐	50.000	55.045	3648.26	0.0300	P	2.1
3	☐	2500.000	2865.870	130321.94	1.0711	P	1.2
4	☐	6250.000	7104.066	315737.53	2.6409	P	0.6
5	☐	12500.000	14067.515	610459.13	5.2200	P	1.3
6	☐	25000.000	27677.523	1185555.92	10.2609	P	0.6
7	☐	50000.000	53490.317	2252538.14	19.8215	A	0.9
8	☐	250000.00	248930.79	10609779.29	92.2092	A	0.4

$$y = 3.7038E-004 * x + 0.0097$$

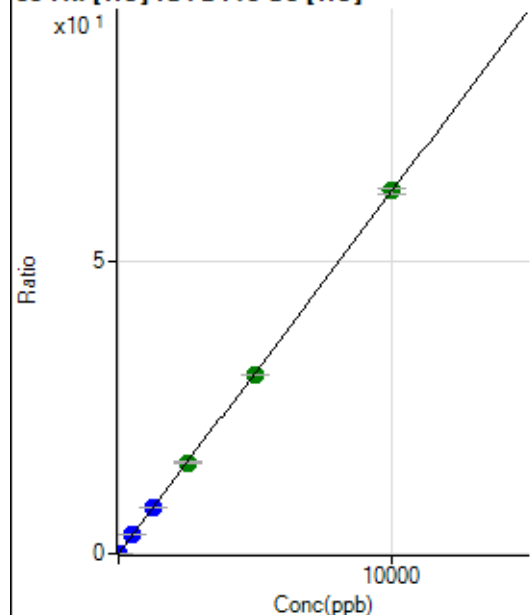
$$R = 0.9999$$

$$DL = 11.96$$

$$BEC = 26.06$$

Weight: <None>

Min Conc: 0

55 Mn [He] ISTD:45 Sc [He]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	158.89	0.0012	P	16.4
2	☐	1.000	1.012	913.37	0.0075	P	7.9
3	☐	500.000	510.321	385538.45	3.1688	P	1.5
4	☐	1250.000	1275.110	946410.41	7.9159	P	0.3
5	☐	2500.000	2519.605	1828972.09	15.6405	A	2.1
6	☐	5000.000	4940.754	3543536.48	30.6687	A	0.8
7	☐	10000.000	10021.067	7068676.01	62.2025	A	1.3
8	☐			4466.26	0.0388	P	0.8

$$y = 0.0062 * x + 0.0012$$

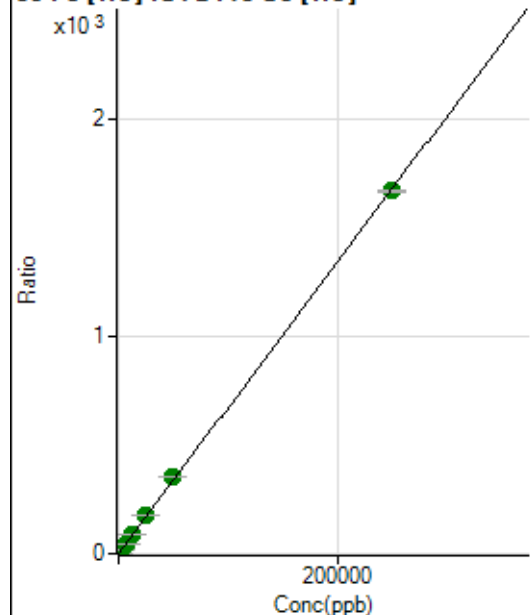
$$R = 1.0000$$

$$DL = 0.09863$$

$$BEC = 0.2002$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	6329.20	0.0494	P	12.4
2	☐	50.000	53.332	49455.58	0.4072	P	1.8
3	☐	2500.000	2710.449	2218983.09	18.2365	A	0.6
4	☐	6250.000	6761.088	5429774.50	45.4163	A	1.4
5	☐	12500.000	13363.287	10491890.68	89.7170	A	1.5
6	☐	25000.000	26354.312	20437349.14	176.8868	A	1.1
7	☐	50000.000	53281.861	40637370.23	357.5706	A	0.1
8	☐	250000.00	249150.15	192359734.9	1,671.846	A	0.9

$$y = 0.0067 * x + 0.0494$$

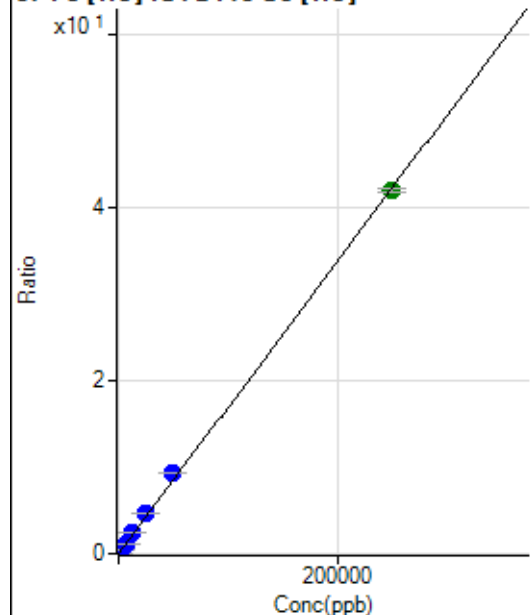
$$R = 0.9999$$

$$DL = 2.74$$

$$BEC = 7.357$$

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	268.90	0.0021	P	13.1
2	☐	50.000	55.029	1378.96	0.0114	P	5.7
3	☐	2500.000	2807.939	57757.03	0.4747	P	1.6
4	☐	6250.000	6988.362	140884.95	1.1784	P	0.2
5	☐	12500.000	13952.242	274886.38	2.3505	P	1.3
6	☐	25000.000	27435.109	533782.24	4.6200	P	1.1
7	☐	50000.000	55004.156	1052404.84	9.2604	P	0.4
8	☐	250000.00	248661.50	4815857.29	41.8568	A	1.2

$$y = 1.6832\text{E-}004 * x + 0.0021$$

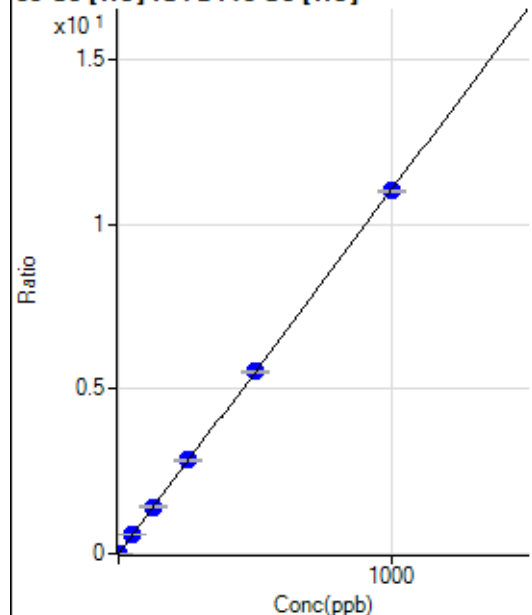
$$R = 0.9998$$

$$DL = 4.889$$

$$BEC = 12.44$$

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	61.11	0.0005	P	26.6
2	☐	1.000	1.046	1461.20	0.0120	P	7.3
3	☐	50.000	52.155	70208.58	0.5771	P	1.8
4	☐	125.000	129.457	171168.85	1.4317	P	0.6
5	☐	250.000	257.198	332573.22	2.8439	P	1.7
6	☐	500.000	500.374	639209.31	5.5324	P	0.7
7	☐	1000.000	997.349	1253103.80	11.0267	P	0.8
8	☐			3737.17	0.0325	P	3.2

$$y = 0.0111 * x + 4.7382\text{E-}004$$

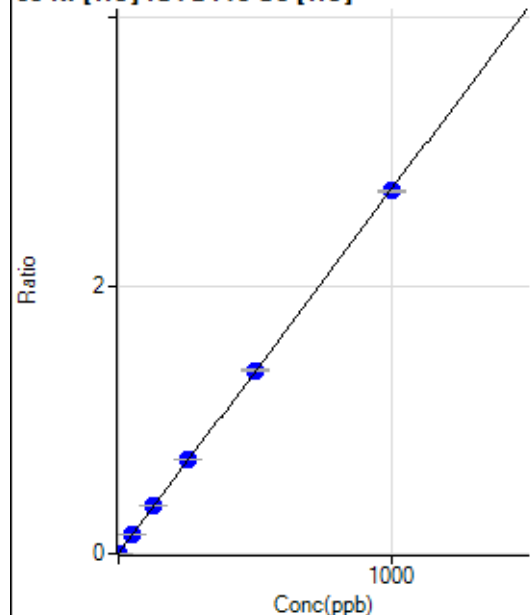
$$R = 1.0000$$

$$DL = 0.03416$$

$$BEC = 0.04286$$

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	217.78	0.0017	P	16.5
2	☐	1.000	1.016	541.13	0.0045	P	12.6
3	☐	50.000	53.181	17791.72	0.1462	P	0.4
4	☐	125.000	131.198	42829.89	0.3582	P	0.7
5	☐	250.000	258.067	82213.62	0.7030	P	1.6
6	☐	500.000	502.319	157921.05	1.3668	P	0.8
7	☐	1000.000	995.890	307765.11	2.7081	P	0.5
8	☐			2563.58	0.0223	P	0.5

$$y = 0.0027 * x + 0.0017$$

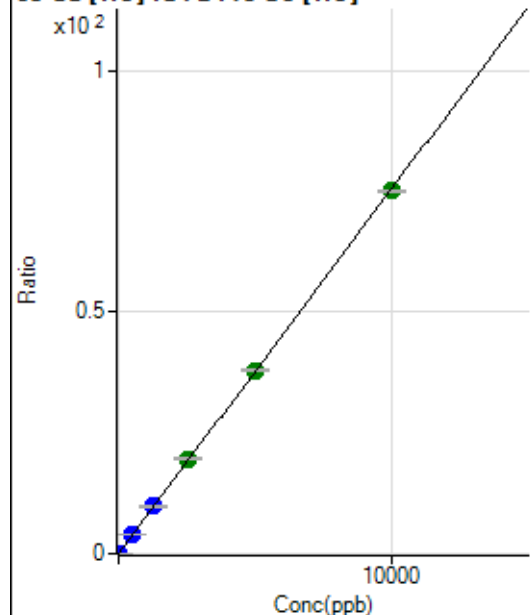
$$R = 1.0000$$

$$DL = 0.3083$$

$$BEC = 0.6231$$

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	822.26	0.0065	P	21.9
2	☐	2.000	1.951	2572.47	0.0212	P	2.9
3	☐	500.000	519.757	477793.24	3.9271	P	1.4
4	☐	1250.000	1292.367	1166286.67	9.7550	P	0.5
5	☐	2500.000	2608.757	2301959.20	19.6848	A	1.7
6	☐	5000.000	5034.600	4388513.13	37.9834	A	1.4
7	☐	10000.000	9949.227	8529802.86	75.0553	A	0.3
8	☐			4062.82	0.0353	P	2.1

$$y = 0.0075 * x + 0.0065$$

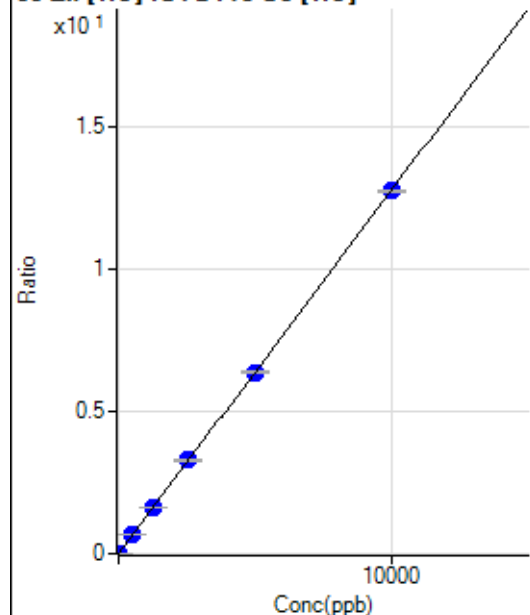
$$R = 0.9999$$

$$DL = 0.5616$$

$$BEC = 0.8561$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	276.67	0.0022	P	18.2
2	☐	5.000	4.659	986.71	0.0081	P	4.5
3	☐	500.000	514.990	80387.99	0.6607	P	0.7
4	☐	1250.000	1292.321	197829.14	1.6547	P	0.3
5	☐	2500.000	2565.476	383884.91	3.2826	P	1.4
6	☐	5000.000	4991.058	737641.38	6.3842	P	0.6
7	☐	10000.000	9982.062	1450783.26	12.7662	P	0.8
8	☐			572.24	0.0050	P	9.3

$$y = 0.0013 * x + 0.0022$$

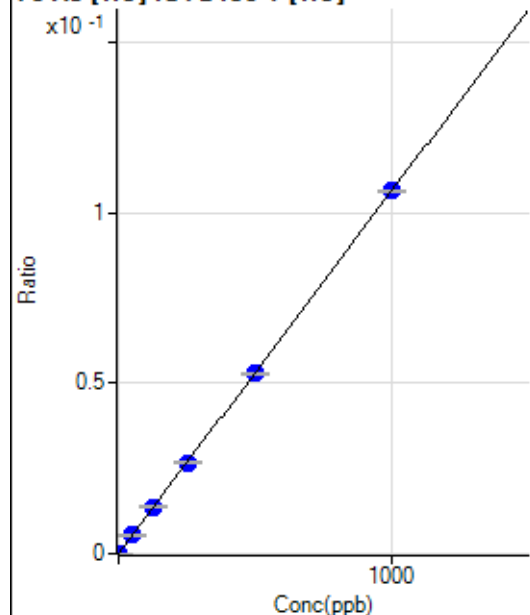
$$R = 1.0000$$

$$DL = 0.9245$$

$$BEC = 1.695$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	3.33	0.0000	P	9.6
2	☐	1.000	0.870	94.44	0.0001	P	28.8
3	☐	50.000	50.764	5353.24	0.0054	P	2.0
4	☐	125.000	128.511	13328.29	0.0137	P	2.7
5	☐	250.000	251.623	25740.15	0.0268	P	0.5
6	☐	500.000	496.704	50439.75	0.0529	P	1.0
7	☐	1000.000	1000.765	101078.69	0.1065	P	0.7
8	☐			78.89	0.0001	P	21.0

$$y = 1.0644E-004 * x + 3.2110E-006$$

$$R = 1.0000$$

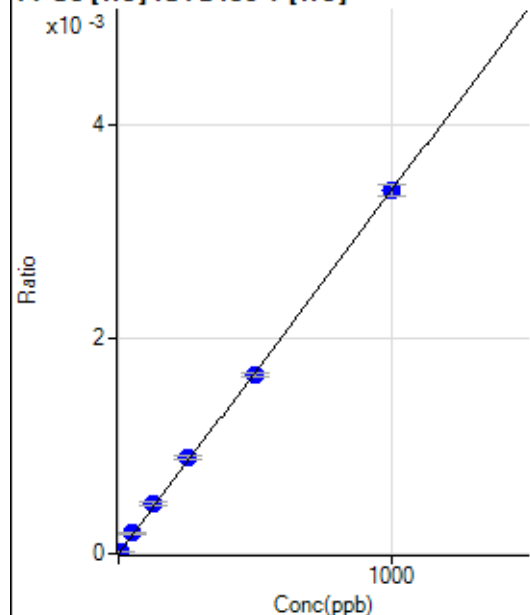
$$DL = 0.008653$$

$$BEC = 0.03017$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	0.00	0.0000	P	
2	☐	5.000	5.328	17.78	0.0000	P	21.5
3	☐	50.000	57.430	192.23	0.0002	P	11.3
4	☐	125.000	135.568	446.68	0.0005	P	7.8
5	☐	250.000	263.977	857.81	0.0009	P	4.8
6	☐	500.000	491.434	1585.65	0.0017	P	2.7
7	☐	1000.000	999.095	3205.93	0.0034	P	3.0
8	☐			0.00	0.0000	P	

$$y = 3.3823\text{E-}006 * x + 0.0000\text{E+}000$$

$$R = 0.9998$$

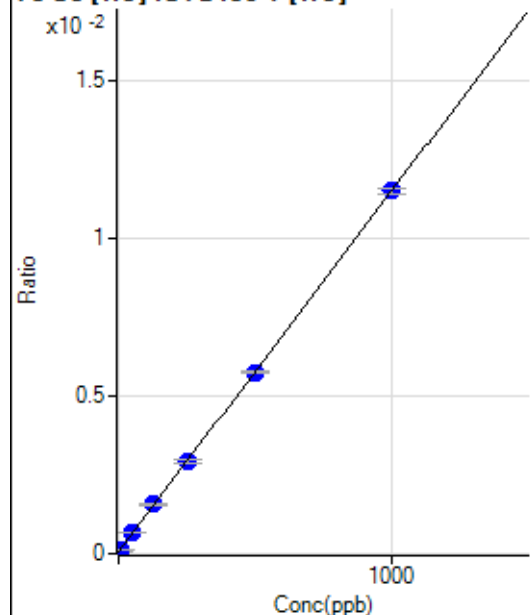
$$DL = 0$$

$$BEC = 0$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	61.11	0.0001	P	21.0
2	☐	5.000	5.449	118.89	0.0001	P	23.7
3	☐	50.000	53.425	663.36	0.0007	P	4.2
4	☐	125.000	131.061	1518.98	0.0016	P	4.1
5	☐	250.000	250.173	2809.18	0.0029	P	3.7
6	☐	500.000	497.559	5492.17	0.0058	P	1.5
7	☐	1000.000	1000.246	10925.25	0.0115	P	1.7
8	☐			62.22	0.0001	P	21.5

$$y = 1.1454\text{E-}005 * x + 5.8101\text{E-}005$$

$$R = 1.0000$$

$$DL = 3.188$$

$$BEC = 5.073$$

Weight: <None>

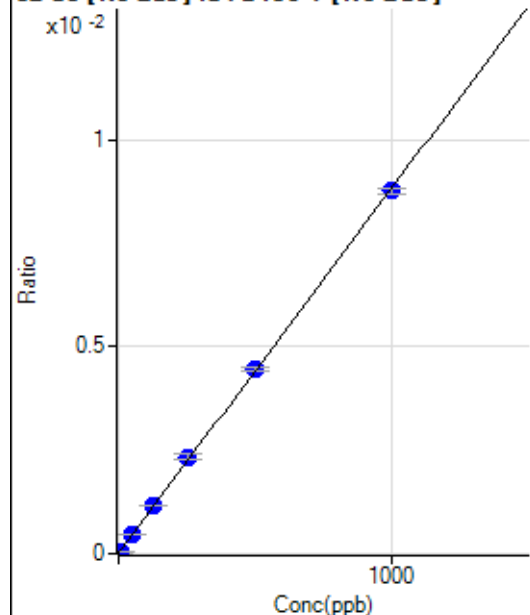
Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			14906.49		P	0.4
2	☐			14588.42		P	0.7
3	☐			14645.18		P	2.9
4	☐			14323.71		P	1.8
5	☐			14215.83		P	1.8
6	☐			13765.41		P	1.2
7	☐			13788.79		P	1.7
8	☐			13990.05		P	0.8

81 Br [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			38.89		P	17.8
2	☐			31.11		P	30.9
3	☐			21.11		P	39.7
4	☐			37.78		P	13.5
5	☐			36.67		P	24.1
6	☐			36.67		P	18.2
7	☐			31.11		P	55.0
8	☐			24.44		P	7.9

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	50.37	0.0000	P	29.2
2	☐	5.000	5.013	228.89	0.0001	P	10.3
3	☐	50.000	50.848	1892.52	0.0005	P	1.1
4	☐	125.000	132.060	4757.13	0.0012	P	0.6
5	☐	250.000	263.604	9305.97	0.0023	P	5.4
6	☐	500.000	504.819	18328.69	0.0045	P	1.5
7	☐	1000.000	993.265	36401.21	0.0088	P	1.6
8	☐			88.81	0.0000	P	12.4

$$y = 8.8120\text{E-}006 * x + 1.3555\text{E-}005$$

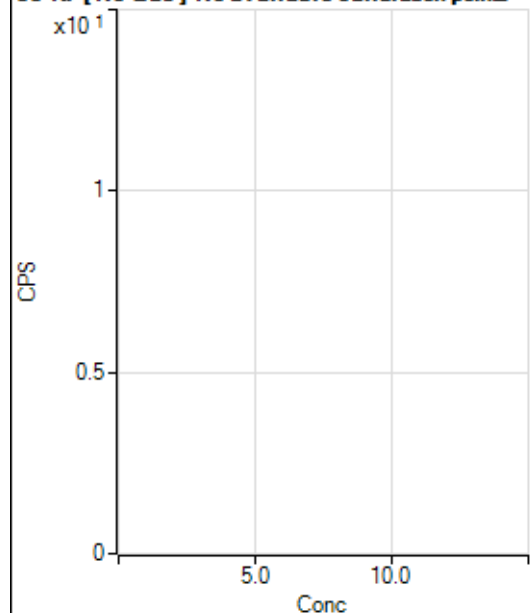
$$R = 0.9999$$

$$DL = 1.349$$

$$BEC = 1.538$$

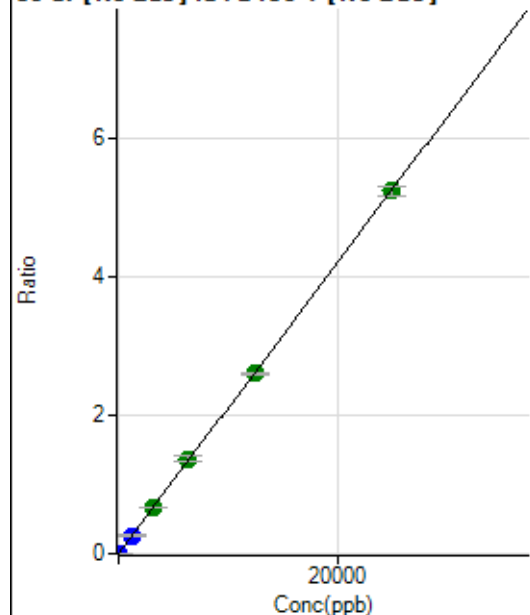
Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			31.11		P	30.9
2	☐			37.78		P	5.1
3	☐			38.89		P	17.8
4	☐			36.67		P	24.0
5	☐			45.55		P	23.5
6	☐			41.11		P	9.4
7	☐			46.67		P	12.4
8	☐			28.89		P	24.0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	90.00	0.0000	P	15.4
2	☐	1.000	0.954	887.81	0.0002	P	5.9
3	☐	1250.000	1247.091	1073111.55	0.2618	P	1.9
4	☐	3125.000	3221.539	2732423.81	0.6762	A	1.3
5	☐	6250.000	6511.647	5443867.70	1.3668	A	5.3
6	☐	12500.000	12399.299	10690601.09	2.6026	A	1.2
7	☐	25000.000	24973.017	21763515.51	5.2417	A	2.6
8	☐			3187.04	0.0008	P	4.8

$$y = 2.0989\text{E-}004 * x + 2.3827\text{E-}005$$

$$R = 0.9999$$

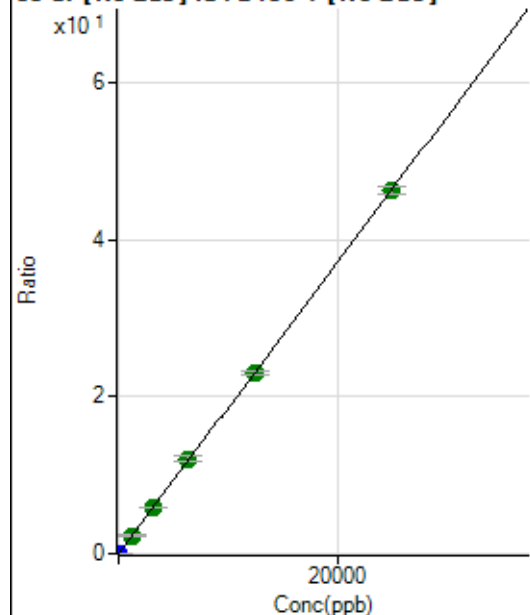
$$DL = 0.0526$$

$$BEC = 0.1135$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	385.56	0.0001	P	15.4
2	☐	1.000	0.963	7469.74	0.0019	P	3.2
3	☐	1250.000	1254.618	9519873.96	2.3222	A	1.6
4	☐	3125.000	3191.261	23868000.76	5.9067	A	0.7
5	☐	6250.000	6533.142	48156219.84	12.0921	A	5.8
6	☐	12500.000	12437.555	94562048.59	23.0204	A	1.3
7	☐	25000.000	24951.924	191762903.8	46.1829	A	2.0
8	☐			27071.61	0.0070	P	1.7

$$y = 0.0019 * x + 1.0303\text{E-}004$$

$$R = 0.9999$$

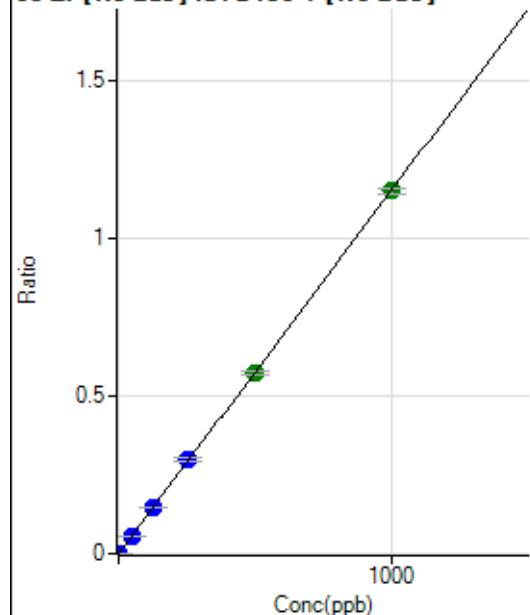
$$DL = 0.0257$$

$$BEC = 0.05566$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	150.01	0.0000	P	9.1
2	☐	1.000	0.848	4030.60	0.0010	P	0.5
3	☐	50.000	49.638	234832.30	0.0573	P	2.1
4	☐	125.000	126.499	589699.47	0.1459	P	0.7
5	☐	250.000	258.248	1186487.12	0.2979	P	5.2
6	☐	500.000	498.968	2363947.66	0.5755	A	1.7
7	☐	1000.000	998.285	4780779.58	1.1514	A	1.9
8	☐			2528.02	0.0007	P	6.4

$$y = 0.0012 * x + 3.9783E-005$$

$$R = 1.0000$$

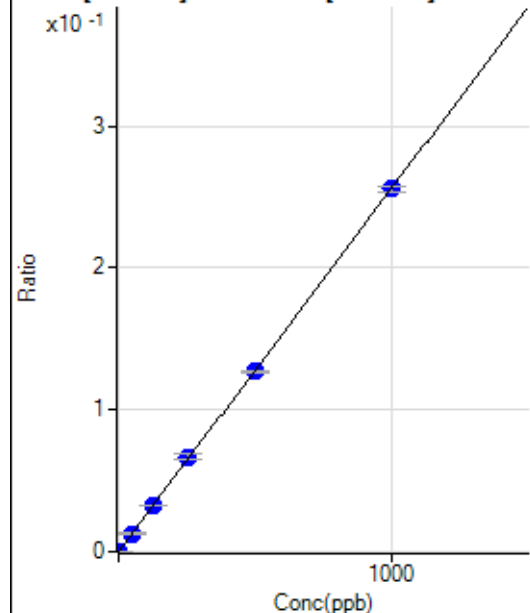
$$DL = 0.009432$$

$$BEC = 0.0345$$

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	36.67	0.0000	P	54.7
2	☐	1.000	0.849	898.93	0.0002	P	7.2
3	☐	50.000	50.122	52597.12	0.0128	P	2.1
4	☐	125.000	127.220	131537.95	0.0326	P	0.5
5	☐	250.000	260.661	265601.65	0.0667	P	5.4
6	☐	500.000	495.934	521138.44	0.1269	P	1.6
7	☐	1000.000	999.084	1061212.83	0.2556	P	1.9
8	☐			577.80	0.0002	P	8.6

$$y = 2.5580E-004 * x + 9.6845E-006$$

$$R = 0.9999$$

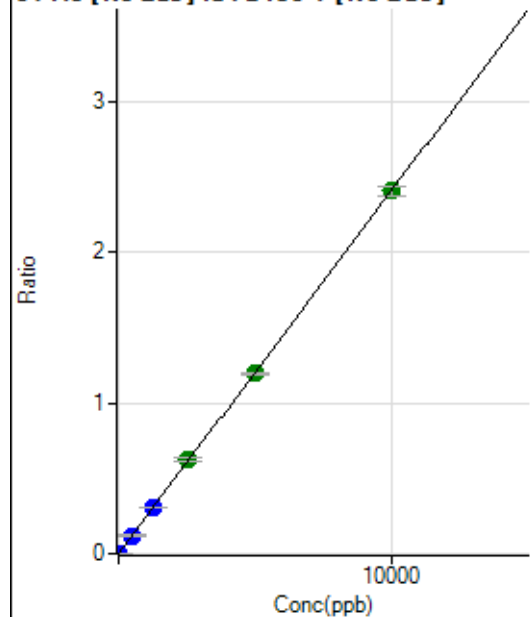
$$DL = 0.0621$$

$$BEC = 0.03786$$

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	104.45	0.0000	P	2.9
2	☐	5.000	5.171	5047.58	0.0013	P	1.9
3	☐	500.000	501.161	495241.25	0.1208	P	1.9
4	☐	1250.000	1267.456	1234468.27	0.3055	P	0.5
5	☐	2500.000	2602.431	2498730.95	0.6272	A	4.8
6	☐	5000.000	4956.405	4907016.11	1.1946	A	0.7
7	☐	10000.000	9993.950	10000680.75	2.4086	A	2.4
8	☐			4417.37	0.0011	P	8.7

$$y = 2.4101\text{E-}004 * x + 2.7761\text{E-}005$$

$$R = 0.9999$$

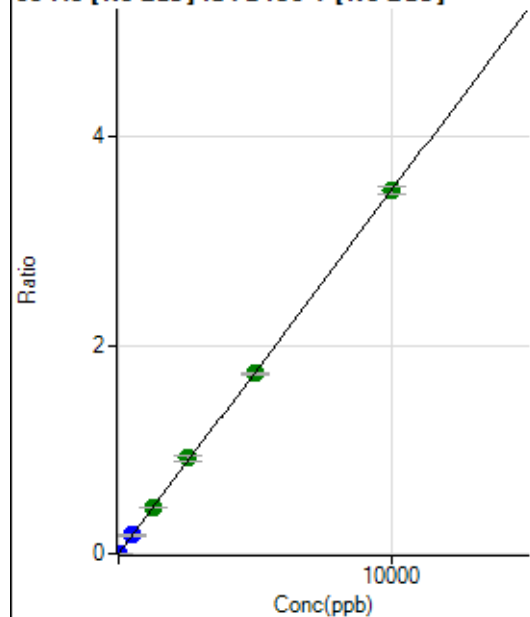
$$DL = 0.01011$$

$$BEC = 0.1152$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	161.11	0.0000	P	18.2
2	☐	5.000	4.306	6118.00	0.0015	P	2.4
3	☐	500.000	503.230	719366.95	0.1755	P	2.2
4	☐	1250.000	1284.290	1809438.41	0.4478	A	0.9
5	☐	2500.000	2637.635	3662509.35	0.9196	A	5.6
6	☐	5000.000	4949.227	7088188.71	1.7255	A	0.7
7	☐	10000.000	9986.530	14456575.34	3.4817	A	2.2
8	☐			6323.66	0.0016	P	10.4

$$y = 3.4864\text{E-}004 * x + 4.2745\text{E-}005$$

$$R = 0.9999$$

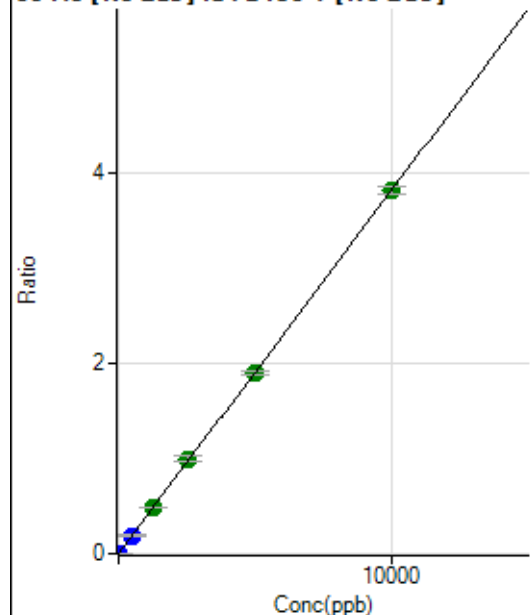
$$DL = 0.06694$$

$$BEC = 0.1226$$

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	47.78	0.0000	P	20.7
2	☐	5.000	4.451	6782.74	0.0017	P	2.9
3	☐	500.000	502.747	786952.31	0.1920	P	2.4
4	☐	1250.000	1293.352	1995669.85	0.4939	A	0.5
5	☐	2500.000	2618.793	3982470.25	1.0000	A	5.7
6	☐	5000.000	4956.882	7774654.26	1.8927	A	2.1
7	☐	10000.000	9986.305	15832863.93	3.8132	A	2.3
8	☐			7554.24	0.0020	P	8.2

$$y = 3.8184\text{E-}004 * x + 1.2717\text{E-}005$$

$$R = 0.9999$$

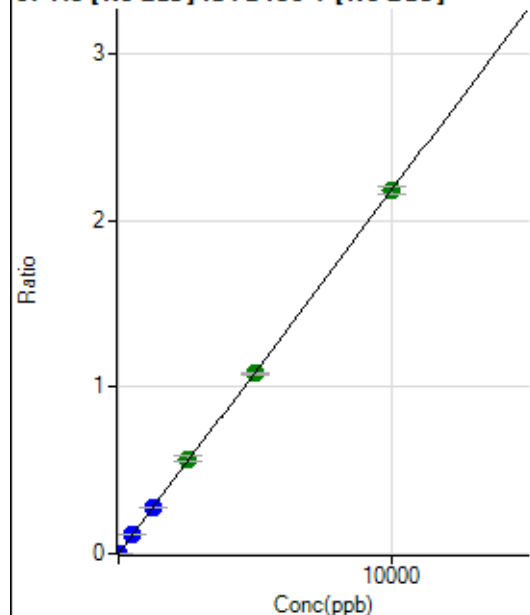
$$DL = 0.02066$$

$$BEC = 0.03331$$

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	44.45	0.0000	P	18.0
2	☐	5.000	4.390	3841.65	0.0010	P	2.5
3	☐	500.000	506.621	453206.83	0.1106	P	1.5
4	☐	1250.000	1270.906	1120576.08	0.2773	P	0.2
5	☐	2500.000	2620.053	2275999.69	0.5717	A	6.7
6	☐	5000.000	4959.682	4445283.09	1.0822	A	1.4
7	☐	10000.000	9987.202	9048159.87	2.1791	A	2.0
8	☐			3747.18	0.0010	P	5.2

$$y = 2.1819\text{E-}004 * x + 1.1853\text{E-}005$$

$$R = 0.9999$$

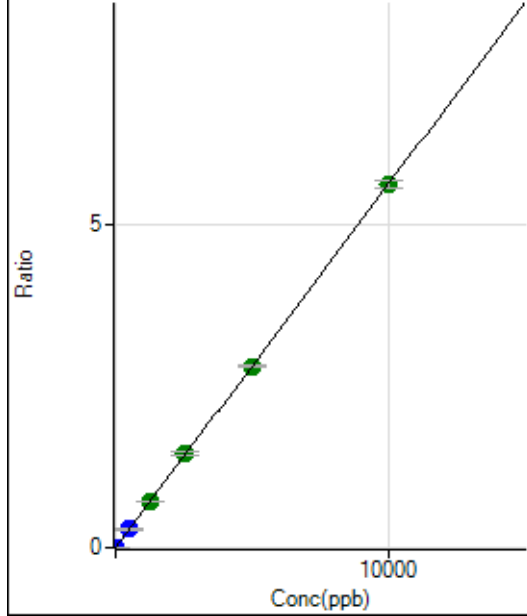
$$DL = 0.02933$$

$$BEC = 0.05432$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	46.67	0.0000	P	24.7
2	☐	5.000	4.365	9803.35	0.0025	P	2.3
3	☐	500.000	504.077	1165601.61	0.2843	P	1.8
4	☐	1250.000	1274.424	2904840.96	0.7188	A	0.9
5	☐	2500.000	2599.477	5841076.23	1.4662	A	4.8
6	☐	5000.000	4988.122	11557412.88	2.8135	A	1.0
7	☐	10000.000	9977.813	23368107.15	5.6280	A	2.2
8	☐			9775.59	0.0025	P	8.5

$$y = 5.6405\text{E-}004 * x + 1.2343\text{E-}005$$

$$R = 0.9999$$

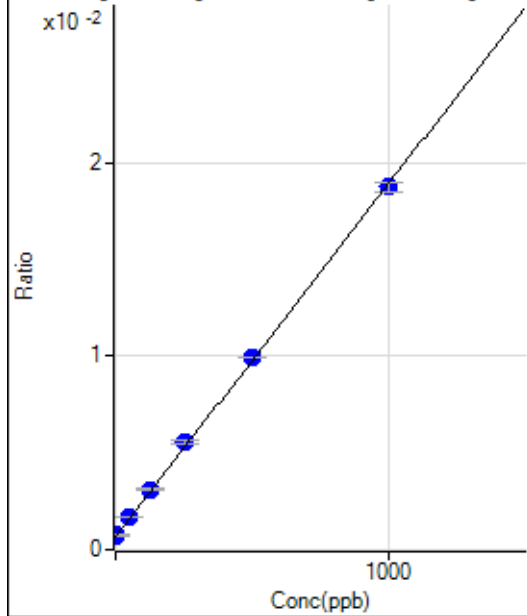
$$DL = 0.01622$$

$$BEC = 0.02188$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2739.18	0.0007	P	2.5
2	☐	1.000	3.312	3161.49	0.0007	P	3.4
3	☐	50.000	53.769	7336.38	0.0017	P	1.7
4	☐	125.000	132.805	13700.99	0.0031	P	1.6
5	☐	250.000	266.303	24218.01	0.0055	P	4.2
6	☐	500.000	507.361	44894.61	0.0099	P	0.7
7	☐	1000.000	991.077	87157.15	0.0187	P	2.4
8	☐			2927.00	0.0007	P	1.1

$$y = 1.8220\text{E-}005 * x + 6.8768\text{E-}004$$

$$R = 0.9998$$

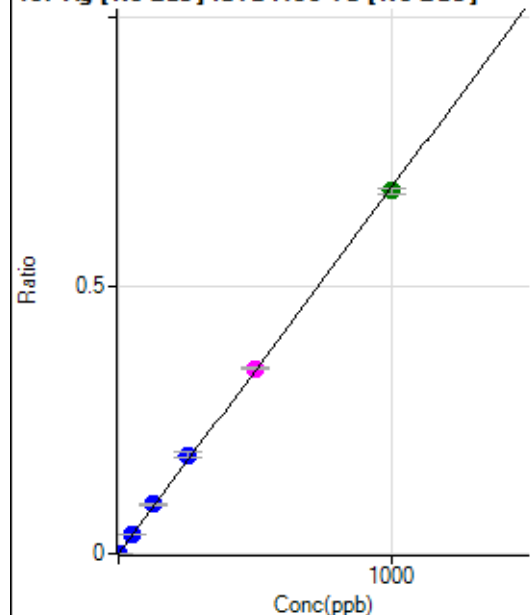
$$DL = 2.828$$

$$BEC = 37.74$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	72.22	0.0000	P	23.6
2	☐	1.000	1.013	3000.34	0.0007	P	0.8
3	☐	50.000	53.829	161791.01	0.0368	P	0.7
4	☐	125.000	134.327	404433.26	0.0917	P	0.9
5	☐	250.000	269.747	804845.04	0.1842	P	5.4
6	☐	500.000	506.065	1561853.08	0.3455	M	1.3
7	☐	1000.000	990.674	3144877.21	0.6764	A	1.9
8	☐			561.13	0.0001	P	0.8

$$y = 6.8272\text{E-}004 * x + 1.8147\text{E-}005$$

$$R = 0.9997$$

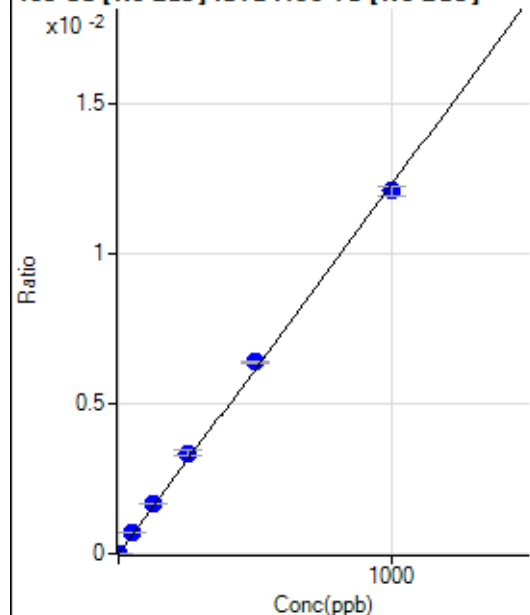
$$DL = 0.01886$$

$$BEC = 0.02658$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	10.00	0.0000	P	70.7
2	☐	1.000	0.798	52.22	0.0000	P	20.9
3	☐	50.000	56.038	3049.24	0.0007	P	1.8
4	☐	125.000	134.589	7321.91	0.0017	P	1.5
5	☐	250.000	271.639	14630.83	0.0033	P	6.1
6	☐	500.000	518.990	28911.04	0.0064	P	0.8
7	☐	1000.000	983.595	56345.49	0.0121	P	2.7
8	☐			123.34	0.0000	P	26.3

$$y = 1.2319\text{E-}005 * x + 2.5380\text{E-}006$$

$$R = 0.9995$$

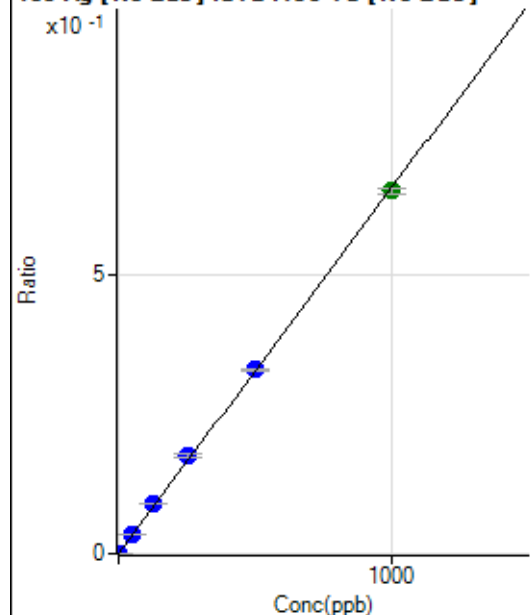
$$DL = 0.4369$$

$$BEC = 0.206$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	43.33	0.0000	P	42.1
2	☐	1.000	1.030	2903.65	0.0007	P	3.4
3	☐	50.000	54.023	156083.65	0.0355	P	1.4
4	☐	125.000	134.846	390305.15	0.0885	P	0.9
5	☐	250.000	268.971	771581.69	0.1766	P	5.2
6	☐	500.000	503.601	1494190.67	0.3306	P	1.0
7	☐	1000.000	992.025	3027701.62	0.6512	A	1.7
8	☐			536.68	0.0001	P	2.2

$$y = 6.5639\text{E-}004 * x + 1.0804\text{E-}005$$

$$R = 0.9998$$

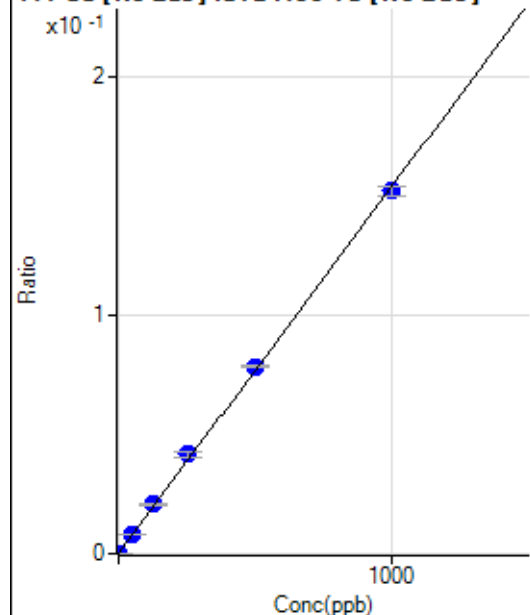
$$DL = 0.02079$$

$$BEC = 0.01646$$

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	273.78	0.0001	P	2.2
2	☐	1.000	0.870	856.68	0.0002	P	5.6
3	☐	50.000	53.149	36313.19	0.0083	P	1.3
4	☐	125.000	133.661	91048.33	0.0206	P	1.0
5	☐	250.000	270.041	181994.51	0.0416	P	5.6
6	☐	500.000	508.906	354512.97	0.0784	P	0.9
7	☐	1000.000	989.297	708543.66	0.1524	P	2.6
8	☐			428.80	0.0001	P	12.4

$$y = 1.5398\text{E-}004 * x + 6.8670\text{E-}005$$

$$R = 0.9997$$

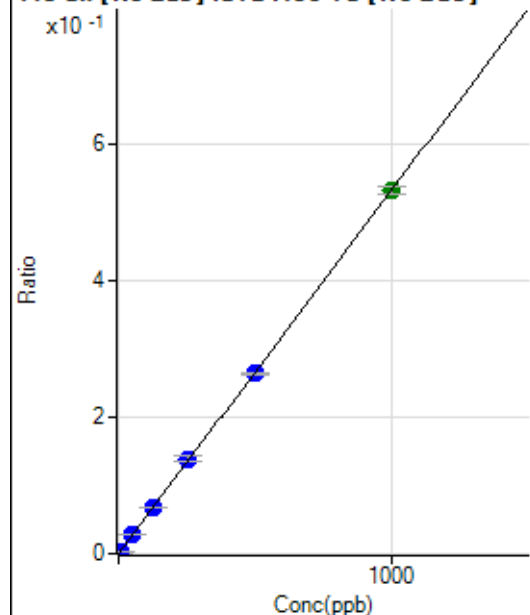
$$DL = 0.02995$$

$$BEC = 0.446$$

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	376.68	0.0001	P	14.9
2	☐	5.000	4.860	11331.20	0.0027	P	1.8
3	☐	50.000	51.823	121770.05	0.0277	P	2.1
4	☐	125.000	128.932	302964.17	0.0687	P	0.9
5	☐	250.000	260.854	607024.05	0.1389	P	5.6
6	☐	500.000	496.306	1194324.34	0.2642	P	1.2
7	☐	1000.000	998.552	2471293.82	0.5315	A	2.1
8	☐			1874.59	0.0004	P	4.9

$$y = 5.3220\text{E-}004 * x + 9.4603\text{E-}005$$

$$R = 0.9999$$

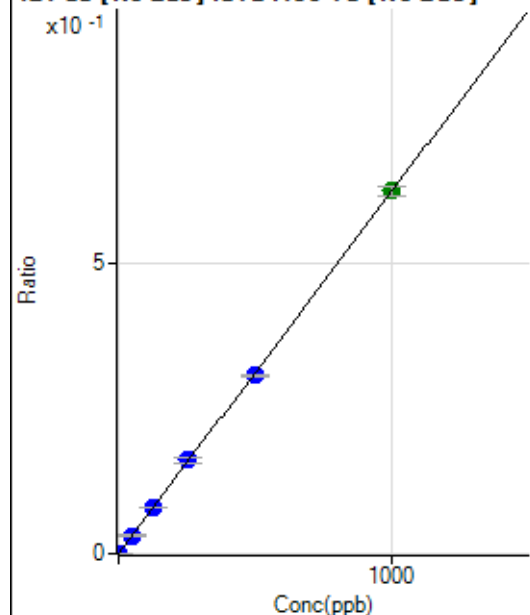
$$DL = 0.07943$$

$$BEC = 0.1778$$

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	21.11	0.0000	P	66.4
2	☐	2.000	1.939	5123.18	0.0012	P	6.1
3	☐	50.000	50.312	137838.44	0.0313	P	0.8
4	☐	125.000	126.276	346606.75	0.0786	P	1.0
5	☐	250.000	258.237	702427.60	0.1608	P	5.6
6	☐	500.000	491.712	1383534.01	0.3061	P	1.5
7	☐	1000.000	1001.910	2899713.88	0.6237	A	2.4
8	☐			2001.27	0.0005	P	2.7

$$y = 6.2250\text{E-}004 * x + 5.2012\text{E-}006$$

$$R = 0.9999$$

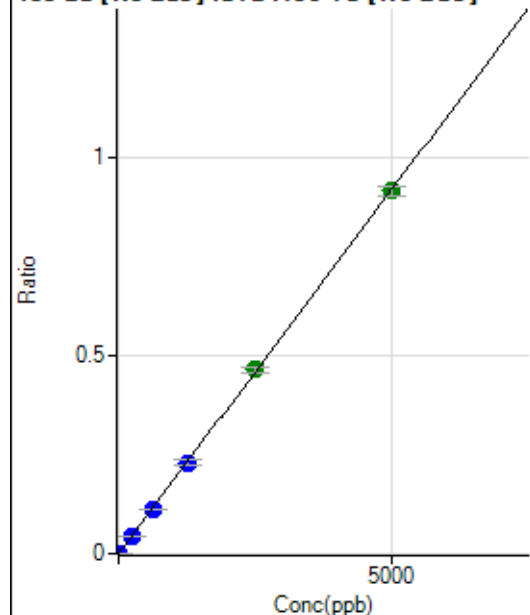
$$DL = 0.01664$$

$$BEC = 0.008355$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	16.66	0.0000	P	68.2
2	☐	10.000	9.327	7245.24	0.0017	P	4.3
3	☐	250.000	245.078	197769.16	0.0449	P	1.5
4	☐	625.000	610.728	493822.59	0.1120	P	0.5
5	☐	1250.000	1250.452	1001942.22	0.2293	P	5.8
6	☐	2500.000	2528.405	2095630.82	0.4637	A	2.8
7	☐	5000.000	4987.716	4252440.84	0.9146	A	2.4
8	☐			1716.79	0.0004	P	8.2

$$y = 1.8338\text{E-}004 * x + 4.0988\text{E-}006$$

$$R = 1.0000$$

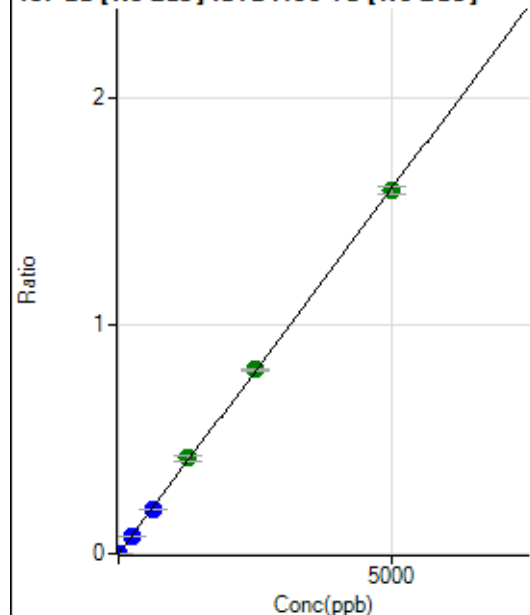
$$DL = 0.04572$$

$$BEC = 0.02235$$

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	28.89	0.0000	P	8.4
2	☐	10.000	9.488	12870.35	0.0030	P	1.6
3	☐	250.000	247.004	348040.34	0.0791	P	1.5
4	☐	625.000	615.929	869609.58	0.1972	P	0.6
5	☐	1250.000	1311.158	1834757.38	0.4198	A	5.2
6	☐	2500.000	2528.386	3659462.90	0.8096	A	1.0
7	☐	5000.000	4971.802	7401942.74	1.5920	A	2.0
8	☐			3007.02	0.0007	P	4.5

$$y = 3.2020\text{E-}004 * x + 7.2612\text{E-}006$$

$$R = 0.9999$$

$$DL = 0.005747$$

$$BEC = 0.02268$$

Weight: <None>

Min Conc: 0

150 Nd [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			6.66		P	86.6
2	☐			4.45		P	86.6
3	☐			68.89		P	12.2
4	☐			167.78		P	27.8
5	☐			334.45		P	7.7
6	☐			650.02		P	15.6
7	☐			1385.64		P	3.0
8	☐			77.78		P	10.8

150 Nd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2.22		P	173.
2	☐			0.00		P	
3	☐			17.78		P	21.7
4	☐			56.67		P	36.7
5	☐			54.44		P	25.5
6	☐			135.56		P	16.4
7	☐			288.89		P	12.2
8	☐			20.00		P	0.0

156 Dy [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			3.33		P	100.
2	☐			5.56		P	34.7
3	☐			25.55		P	15.1
4	☐			41.11		P	16.9
5	☐			72.22		P	14.1
6	☐			132.22		P	18.9
7	☐			353.34		P	20.2
8	☐			170.00		P	8.5

156 Dy [He] No available calibration points

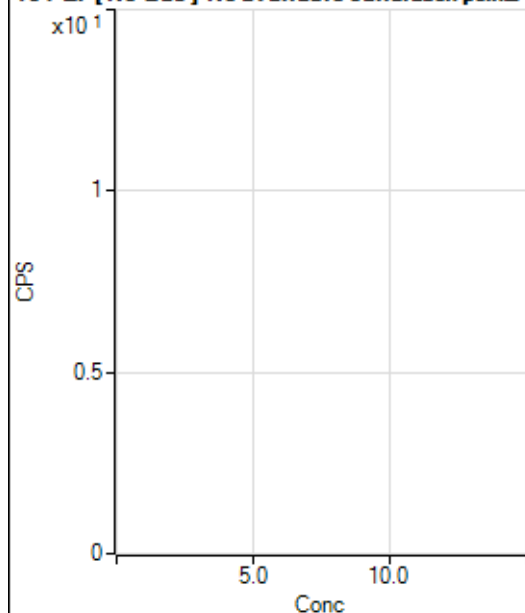
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			5.56		P	91.6
2	☐			3.33		P	100.
3	☐			15.56		P	32.7
4	☐			25.55		P	27.1
5	☐			75.56		P	32.5
6	☐			123.34		P	16.9
7	☐			263.34		P	12.7
8	☐			100.00		P	5.8

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

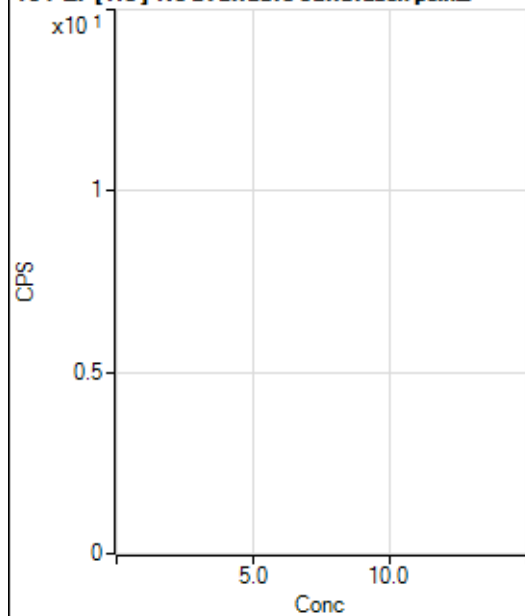
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			20.00		P	33.4
2	☐			34.44		P	5.6
3	☐			32.22		P	26.0
4	☐			28.89		P	56.9
5	☐			51.11		P	26.4
6	☐			60.00		P	9.6
7	☐			146.67		P	6.0
8	☐			125.56		P	26.6

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			153.34		P	18.6
2	☐			166.67		P	26.2
3	☐			160.00		P	13.7
4	☐			170.00		P	5.9
5	☐			188.89		P	5.7
6	☐			191.11		P	9.6
7	☐			226.67		P	2.9
8	☐			234.45		P	5.0

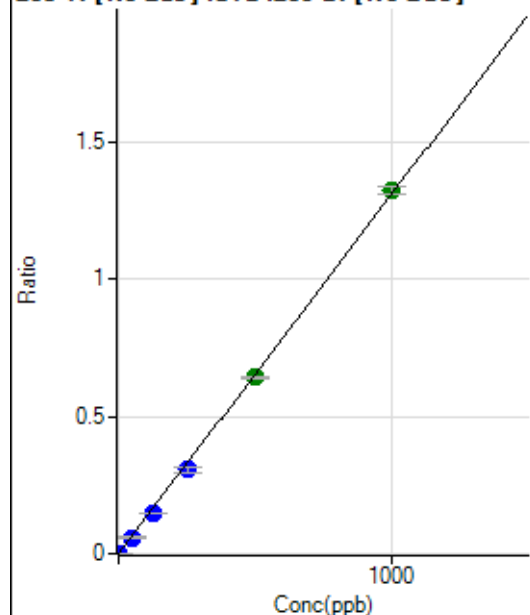
164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			32.22		P	15.8
2	☐			40.00		P	22.0
3	☐			30.00		P	22.2
4	☐			66.67		P	18.0
5	☐			52.22		P	24.2
6	☐			88.89		P	15.2
7	☐			150.00		P	13.5
8	☐			117.78		P	13.1

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			20.00		P	16.7
2	☐			15.56		P	32.7
3	☐			23.33		P	28.6
4	☐			26.67		P	33.1
5	☐			22.22		P	43.3
6	☐			38.89		P	34.6
7	☐			84.45		P	8.2
8	☐			71.11		P	13.5

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	62.22	0.0000	P	17.7
2	☐	1.000	0.844	3387.12	0.0011	P	1.8
3	☐	50.000	44.947	179778.46	0.0589	P	3.3
4	☐	125.000	114.002	462705.12	0.1494	P	0.6
5	☐	250.000	233.445	925462.40	0.3060	P	7.0
6	☐	500.000	491.438	2031045.51	0.6441	A	1.1
7	☐	1000.000	1010.048	4162434.31	1.3238	A	2.0
8	☐			584.46	0.0002	P	1.7

$$y = 0.0013 * x + 2.2204E-005$$

$$R = 0.9998$$

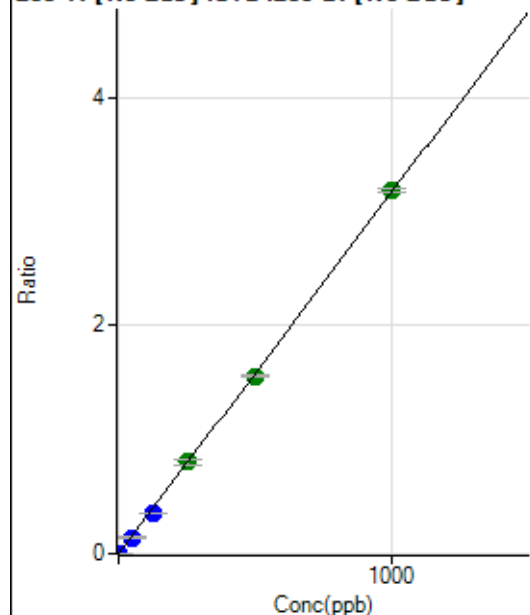
$$DL = 0.009007$$

$$BEC = 0.01694$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	181.12	0.0001	P	8.4
2	☐	1.000	0.844	8210.31	0.0027	P	0.7
3	☐	50.000	44.911	433882.38	0.1422	P	2.4
4	☐	125.000	113.461	1112098.75	0.3592	P	1.1
5	☐	250.000	254.334	2435725.55	0.8051	A	6.3
6	☐	500.000	492.127	4912012.60	1.5577	A	0.4
7	☐	1000.000	1004.550	9997735.20	3.1796	A	1.1
8	☐			1478.98	0.0006	P	3.4

$$y = 0.0032 * x + 6.4882E-005$$

$$R = 0.9999$$

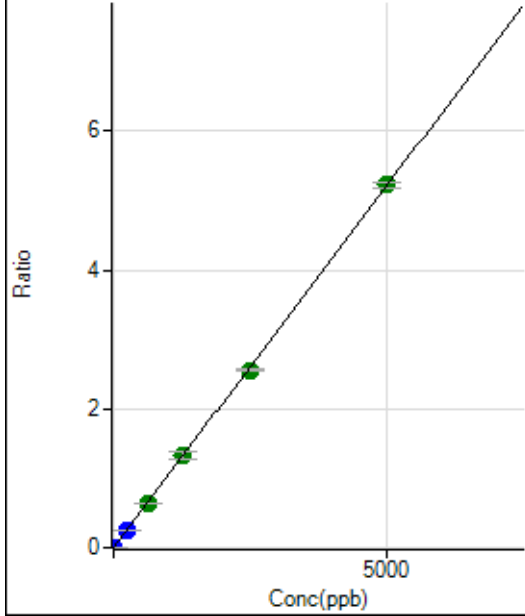
$$DL = 0.00518$$

$$BEC = 0.0205$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	194.45	0.0001	P	13.6
2	☐	1.000	0.843	2844.77	0.0009	P	0.7
3	☐	250.000	231.482	735595.29	0.2411	P	2.2
4	☐	625.000	617.535	1991197.70	0.6431	A	0.5
5	☐	1250.000	1275.893	4018681.40	1.3285	A	6.9
6	☐	2500.000	2457.189	8067923.49	2.5585	A	0.7
7	☐	5000.000	5016.791	16424825.45	5.2236	A	1.3
8	☐			6688.37	0.0026	P	1.0

$$y = 0.0010 * x + 6.9953E-005$$

$$R = 0.9999$$

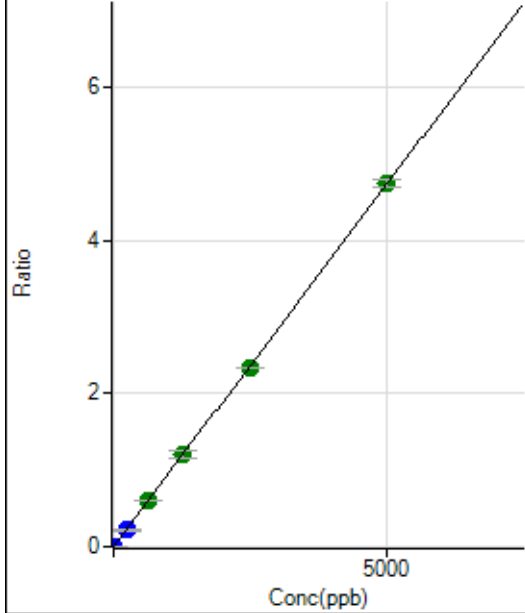
$$DL = 0.02747$$

$$BEC = 0.06718$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	144.45	0.0001	P	23.6
2	☐	1.000	0.846	2560.27	0.0009	P	5.2
3	☐	250.000	226.306	653674.65	0.2143	P	3.1
4	☐	625.000	629.955	1846331.29	0.5963	A	1.5
5	☐	1250.000	1284.107	3675180.64	1.2155	A	7.9
6	☐	2500.000	2465.154	7358119.75	2.3334	A	0.7
7	☐	5000.000	5009.462	14908783.67	4.7418	A	2.0
8	☐			6025.83	0.0023	P	2.2

$$y = 9.4655E-004 * x + 5.2393E-005$$

$$R = 0.9999$$

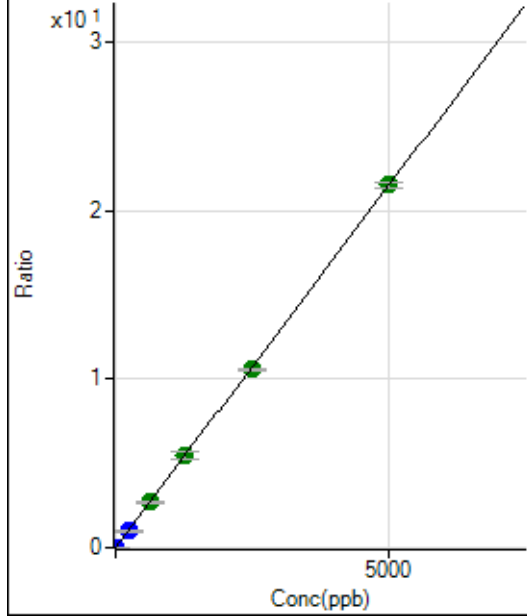
$$DL = 0.03924$$

$$BEC = 0.05535$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	755.57	0.0003	P	15.6
2	☐	1.000	0.844	11716.55	0.0039	P	2.6
3	☐	250.000	228.140	2993042.57	0.9810	P	2.3
4	☐	625.000	625.372	8324848.16	2.6886	A	0.9
5	☐	1250.000	1282.002	16664287.74	5.5113	A	7.8
6	☐	2500.000	2462.334	33379302.84	10.5853	A	0.7
7	☐	5000.000	5011.879	67742746.91	21.5452	A	1.8
8	☐			27570.24	0.0106	P	0.6

$$y = 0.0043 * x + 2.7292E-004$$

$$R = 0.9999$$

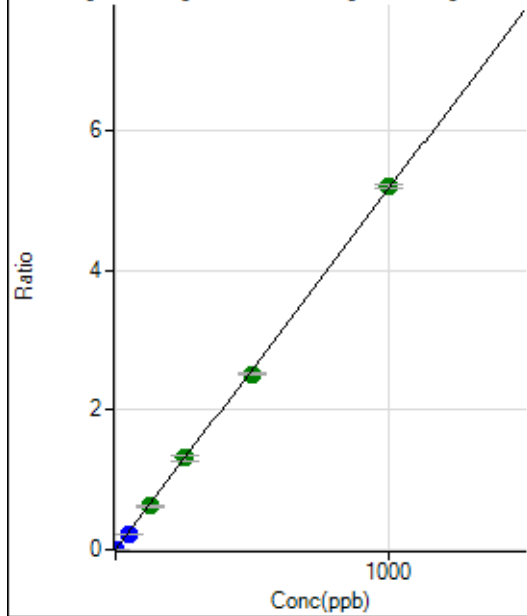
$$DL = 0.02972$$

$$BEC = 0.06349$$

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	14.44	0.0000	P	20.1
2	☐	1.000	0.816	12657.21	0.0042	P	1.4
3	☐	50.000	43.265	681281.02	0.2233	P	2.8
4	☐	125.000	121.261	1937729.95	0.6259	A	2.6
5	☐	250.000	253.757	3962774.59	1.3097	A	6.2
6	☐	500.000	486.490	7917894.33	2.5109	A	1.3
7	☐	1000.000	1006.620	16336674.76	5.1954	A	1.0
8	☐			814.48	0.0003	P	11.4

$$y = 0.0052 * x + 5.2244E-006$$

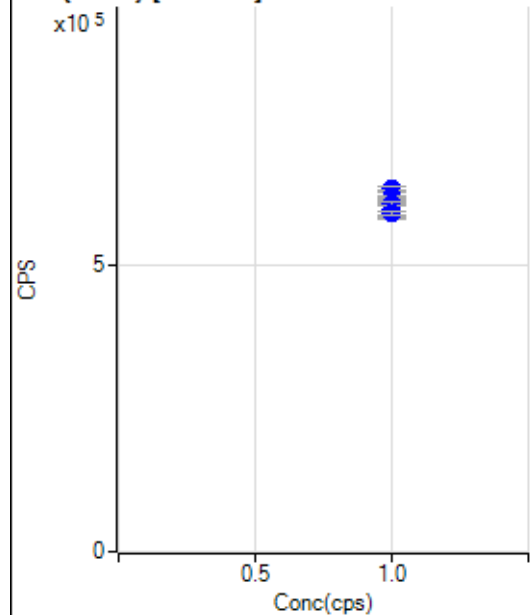
$$R = 0.9998$$

$$DL = 0.0006098$$

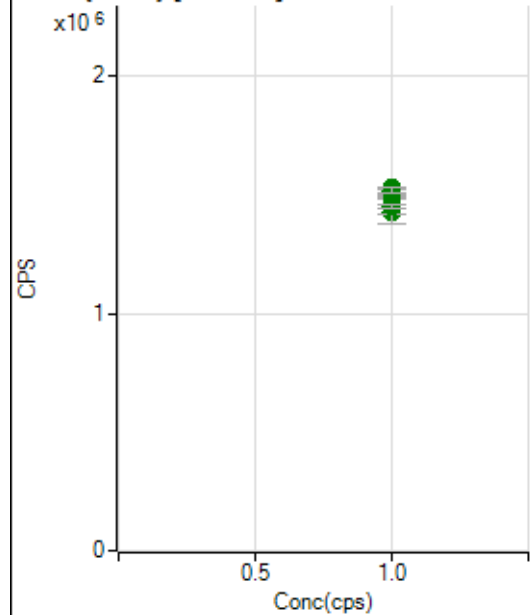
$$BEC = 0.001012$$

Weight: <None>

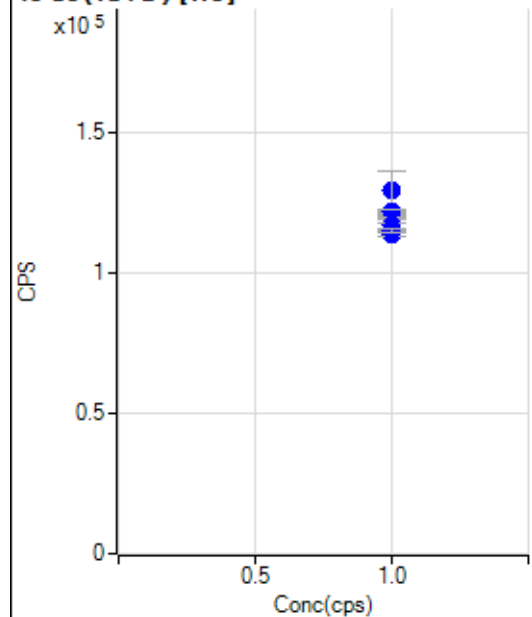
Min Conc: 0

6 Li (ISTD) [No Gas]

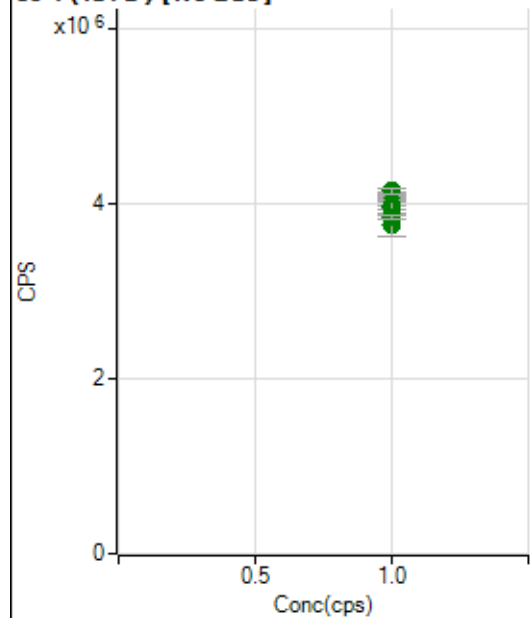
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		597640.61		P	4.9
2	☐	1.000		629180.13		P	0.6
3	☐	1.000		632025.44		P	1.1
4	☐	1.000		618177.88		P	1.0
5	☐	1.000		592583.70		P	4.3
6	☐	1.000		607318.52		P	0.2
7	☐	1.000		606519.19		P	1.2
8	☐	1.000		589875.27		P	1.1

45 Sc (ISTD) [No Gas]

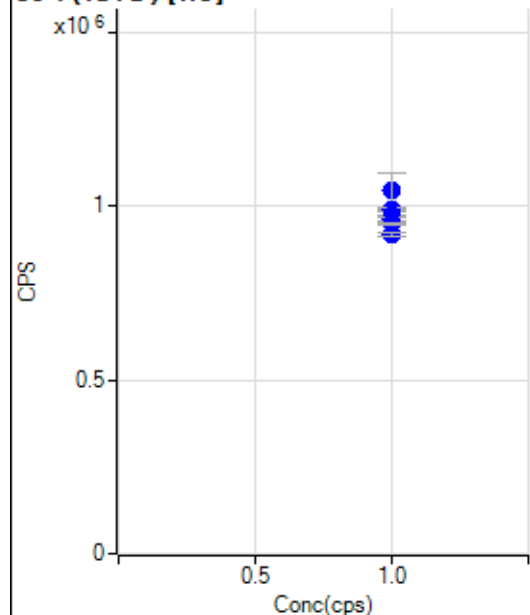
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1429521.11		A	7.1
2	☐	1.000		1497476.83		A	0.8
3	☐	1.000		1530320.71		A	0.3
4	☐	1.000		1500118.42		A	1.5
5	☐	1.000		1460837.04		A	5.7
6	☐	1.000		1503751.45		A	0.6
7	☐	1.000		1520783.41		A	1.8
8	☐	1.000		1451741.66		A	1.2

45 Sc (ISTD) [He]

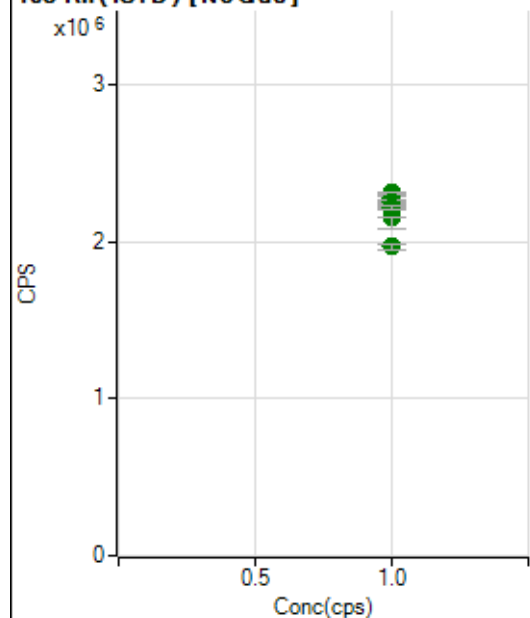
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		129312.46		P	11.0
2	☐	1.000		121454.92		P	0.6
3	☐	1.000		121682.34		P	1.4
4	☐	1.000		119558.89		P	0.3
5	☐	1.000		116960.15		P	1.4
6	☐	1.000		115543.80		P	0.7
7	☐	1.000		113648.64		P	1.1
8	☐	1.000		115064.66		P	1.0

89 Y (ISTD) [No Gas]

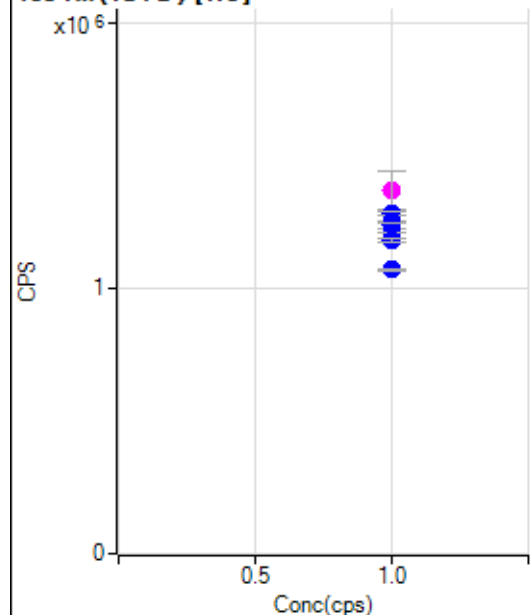
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3763093.90		A	6.5
2	☐	1.000		3962244.53		A	0.9
3	☐	1.000		4100154.00		A	1.6
4	☐	1.000		4040874.49		A	0.4
5	☐	1.000		3989957.93		A	4.9
6	☐	1.000		4107940.88		A	0.6
7	☐	1.000		4153168.13		A	1.7
8	☐	1.000		3850977.93		A	1.1

89 Y(ISTD) [He]

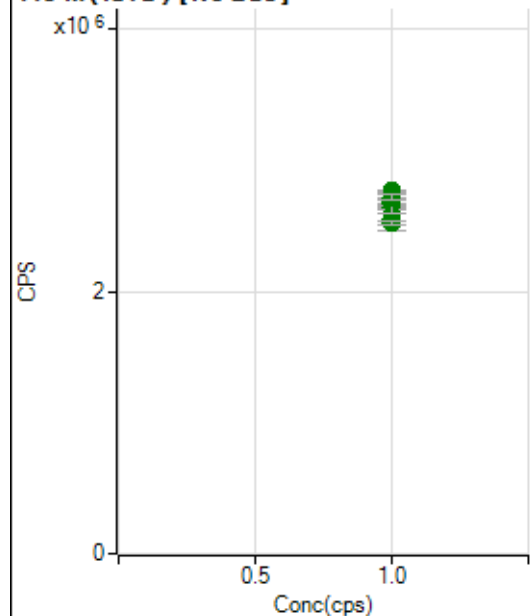
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1043809.62		P	10.1
2	☐	1.000		986277.97		P	0.2
3	☐	1.000		990256.24		P	0.9
4	☐	1.000		974158.02		P	0.1
5	☐	1.000		960913.14		P	1.6
6	☐	1.000		954010.73		P	0.4
7	☐	1.000		948844.20		P	0.7
8	☐	1.000		917377.98		P	1.0

103 Rh(ISTD) [No Gas]

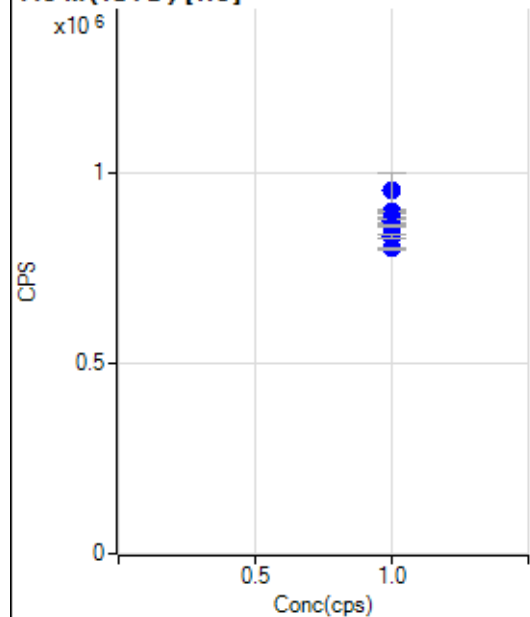
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2154297.87		A	6.4
2	☐	1.000		2281401.67		A	0.8
3	☐	1.000		2313512.92		A	0.5
4	☐	1.000		2256164.15		A	1.2
5	☐	1.000		2205657.95		A	4.8
6	☐	1.000		2254002.03		A	1.5
7	☐	1.000		2223526.20		A	1.2
8	☐	1.000		1968623.41		A	1.3

103 Rh (ISTD) [He]

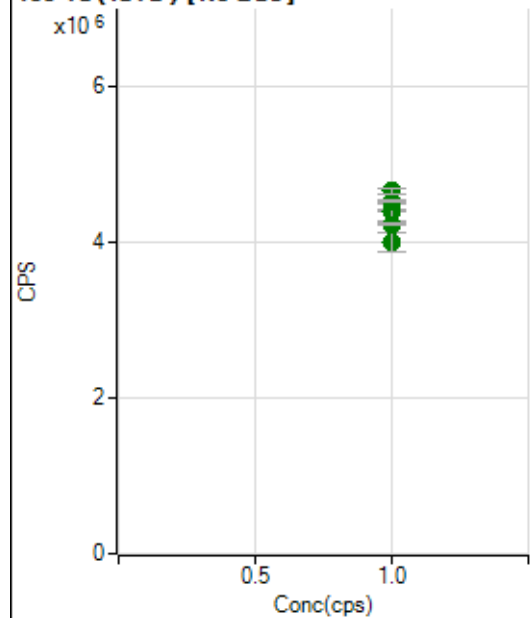
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1369121.30		M	10.6
2	☐	1.000		1278960.63		P	0.1
3	☐	1.000		1282445.05		P	1.0
4	☐	1.000		1254619.84		P	0.1
5	☐	1.000		1238204.92		P	1.5
6	☐	1.000		1211898.21		P	0.5
7	☐	1.000		1182082.29		P	1.0
8	☐	1.000		1071288.50		P	0.7

115 In (ISTD) [No Gas]

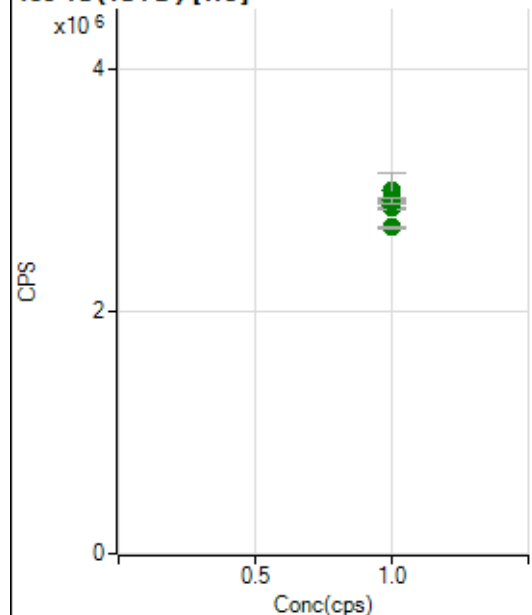
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2558738.45		A	7.0
2	☐	1.000		2646093.80		A	1.1
3	☐	1.000		2768625.74		A	0.5
4	☐	1.000		2689864.27		A	1.4
5	☐	1.000		2669123.49		A	5.4
6	☐	1.000		2739667.64		A	0.1
7	☐	1.000		2716484.78		A	1.6
8	☐	1.000		2518328.78		A	1.3

115 In (ISTD) [He]

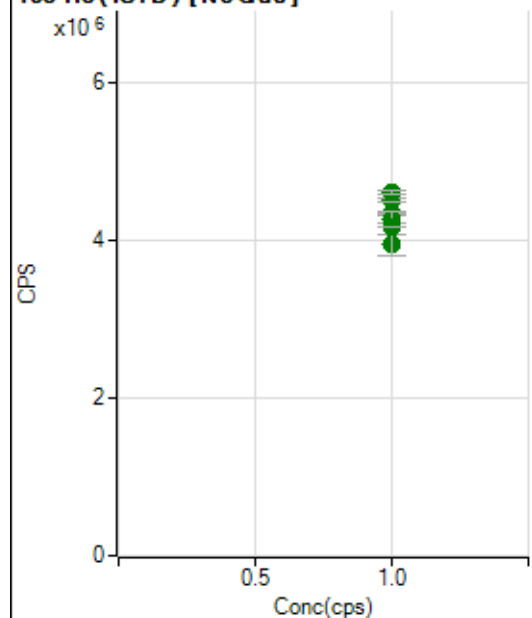
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		953117.62		P	10.3
2	☐	1.000		898396.85		P	0.2
3	☐	1.000		898475.98		P	0.7
4	☐	1.000		885640.49		P	0.1
5	☐	1.000		873708.91		P	1.6
6	☐	1.000		858962.48		P	0.6
7	☐	1.000		834089.52		P	0.9
8	☐	1.000		802257.53		P	0.7

159 Tb (ISTD) [No Gas]

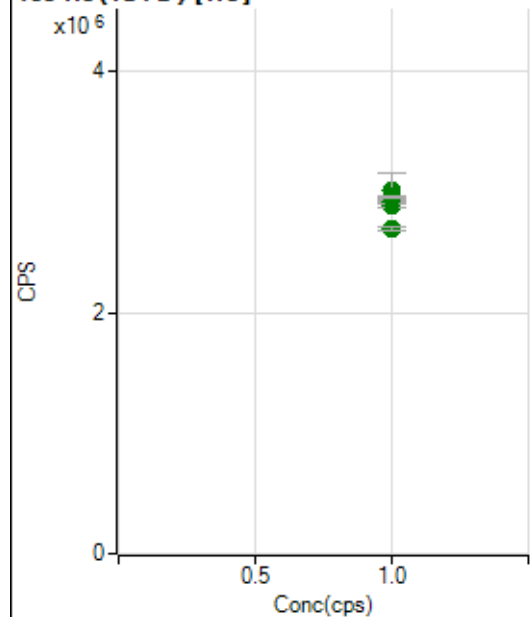
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3987108.14		A	6.3
2	☐	1.000		4226164.38		A	0.4
3	☐	1.000		4400408.72		A	0.9
4	☐	1.000		4409183.72		A	0.2
5	☐	1.000		4377400.60		A	4.8
6	☐	1.000		4520287.26		A	0.8
7	☐	1.000		4650649.79		A	1.8
8	☐	1.000		4226176.91		A	1.0

159 Tb (ISTD) [He]

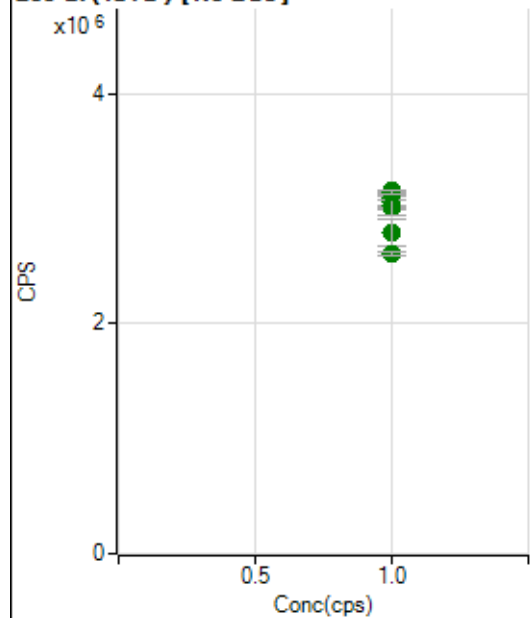
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2989285.86		A	9.4
2	☐	1.000		2853571.97		A	0.1
3	☐	1.000		2899575.58		A	0.7
4	☐	1.000		2900764.79		A	0.5
5	☐	1.000		2867610.93		A	1.8
6	☐	1.000		2893304.02		A	0.1
7	☐	1.000		2907849.96		A	1.6
8	☐	1.000		2686099.89		A	1.1

165 Ho (ISTD) [No Gas]

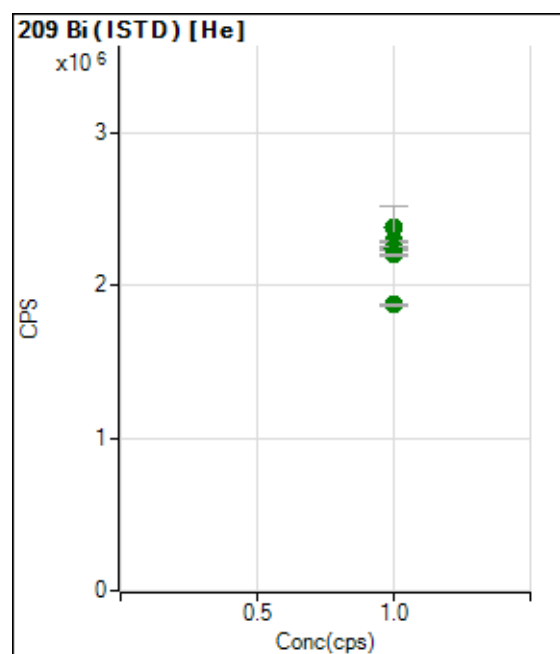
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3938523.76		A	6.6
2	☐	1.000		4213831.57		A	0.4
3	☐	1.000		4341820.59		A	1.5
4	☐	1.000		4346681.64		A	0.5
5	☐	1.000		4258991.92		A	4.8
6	☐	1.000		4514518.65		A	0.8
7	☐	1.000		4598764.44		A	0.9
8	☐	1.000		4175947.09		A	0.1

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3010994.38		A	9.7
2	☐	1.000		2887612.32		A	1.2
3	☐	1.000		2936083.22		A	0.8
4	☐	1.000		2938580.47		A	0.5
5	☐	1.000		2924264.16		A	0.8
6	☐	1.000		2961398.84		A	0.9
7	☐	1.000		2957401.94		A	0.3
8	☐	1.000		2697668.64		A	1.2

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2790479.91		A	8.0
2	☐	1.000		3002208.53		A	0.4
3	☐	1.000		3051767.59		A	1.6
4	☐	1.000		3096499.54		A	1.3
5	☐	1.000		3033411.41		A	6.2
6	☐	1.000		3153378.70		A	0.8
7	☐	1.000		3144720.96		A	1.4
8	☐	1.000		2604642.36		A	1.2



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2375195.35		A	11.7
2	☐	1.000		2274363.07		A	0.1
3	☐	1.000		2283441.49		A	0.6
4	☐	1.000		2284999.03		A	1.0
5	☐	1.000		2243048.37		A	0.3
6	☐	1.000		2241171.09		A	0.9
7	☐	1.000		2197750.12		A	0.6
8	☐	1.000		1870284.45		A	1.2

US EPA Tune Check Report

Operator Name Jaswal

Acq/Data Batch D:\Agilent\ICPMH\1\DATA\IP7071924-MS.b

Acq. Date-Time 2024-07-19 10:45:35

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		4028	40283.21			0.479	5.000
24		37945	379448.85			0.386	5.000
25		4981	49805.88			0.609	5.000
26		5689	56885.37			0.441	5.000
59		32685	326853.43			0.307	5.000
113		4766	47658.17			0.329	5.000
115		60125	601252.62			0.372	5.000
206		18836	188358.54			0.235	5.000
207		17176	171759.51			0.474	5.000
208		40640	406398.77			0.382	5.000
220		0	0.50			70.711	

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

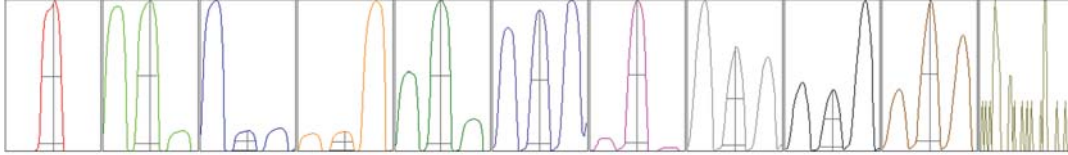
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	4012	4024	4044	4009	4053
24	37762	37815	38027	38028	38093
25	4963	4945	4973	5003	5020
26	5650	5680	5694	5704	5714
59	32562	32678	32805	32617	32763
113	4747	4761	4768	4762	4790
115	59976	59879	60280	60067	60425
206	18767	18823	18850	18884	18856
207	17119	17073	17181	17274	17231
208	40385	40693	40636	40805	40680

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	6786.95	9.05	8.90 - 9.10	
24	60339.64	24.00	23.90 - 24.10	
25	7973.99	25.00	24.90 - 25.10	
26	8885.46	26.00	25.90 - 26.10	
59	53830.90	58.95	58.90 - 59.10	
113	9012.52	113.00	112.90 - 113.10	
115	113198.17	115.00	114.90 - 115.10	
206	36916.95	206.05	205.90 - 206.10	
207	33401.48	207.05	206.90 - 207.10	
208	80836.21	208.05	207.90 - 208.10	
220			-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.61	0.777	0.900	
24	0.65	0.784	0.900	
25	0.66	0.755	0.900	
26	0.66	0.783	0.900	
59	0.62	0.774	0.900	
113	0.54	0.740	0.900	
115	0.54	0.735	0.900	
206	0.53	0.742	0.900	
207	0.52	0.758	0.900	
208	0.52	0.765	0.900	
220				

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode --- Nebulizer Gas 0.82 L/min Dilution Gas 0.40 L/min

US EPA Tune Check Report

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

Lens Parameters

Extract 1	0.0 V	Omega Lens	8.7 V	Deflect	15.2 V
Extract 2	-105.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-60 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	170 V		

QP Parameters

Mass Gain	134	Axis Gain	0.9973	QP Bias	-3.0 V
Mass Offset	130	Axis Offset	0.15		

Hardware Settings

Torch

Torch H	-0.3 mm	Torch V	0.4 mm
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EM

Discriminator	4.6 mV	Analog HV	2312 V	Pulse HV	1396 V
---------------	--------	-----------	--------	----------	--------

[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		9624	96241.36			0.856	
89		13901	139005.15			0.813	
205		19608	196083.86			0.863	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	9669	9604	9528	9579	9741
89	13896	13953	13821	13772	14060
205	19735	19572	19447	19459	19829

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

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

Lens Parameters

Extract 1	0.0 V	Omega Lens	9.5 V	Deflect	2.4 V
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US EPA Tune Check Report

Extract 2	-125.0 V	Cell Entrance	-40 V	Plate Bias	-60 V
Omega Bias	-70 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	190 V		

QP Parameters

Mass Gain	134	Axis Gain	0.9973	QP Bias	-13.0 V
Mass Offset	130	Axis Offset	0.15		

Hardware Settings

Torch

Torch H	-0.3 mm	Torch V	0.4 mm
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EM

Discriminator	4.6 mV	Analog HV	2312 V	Pulse HV	1396 V
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