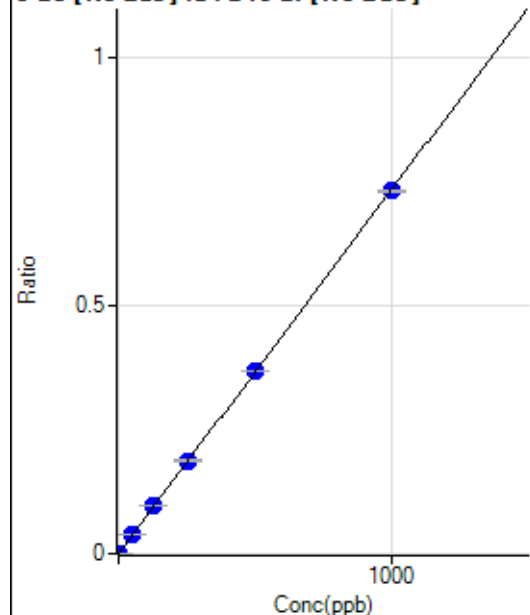


Calibration for 002CALB.d

Batch Folder: D:\ICP-MS Data\P7052418-MS.b\
 Analysis File: P7052418-MS.batch.bin
 DA Date-Time: 2018-05-24 12:09:38
 Calibration Title:
 Calibration Method: External Calibration
 VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	003CALB.d	S00	2018-05-24 11:37:11
2			
3	005CALS.d	S02	2018-05-24 11:45:15
4	006CALS.d	S03	2018-05-24 11:49:01
5	007CALS.d	S04	2018-05-24 11:52:47
6	008CALS.d	S05	2018-05-24 11:56:32
7	009CALS.d	S06	2018-05-24 12:00:16
8	010CALS.d	S07	2018-05-24 12:04:01
9	011CALS.d	S08	2018-05-24 12:07:44

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

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	53.71	0.0000	P	29.8
2	☐	0.100					
3	☐	1.000	1.052	1248.23	0.0008	P	12.2
4	☐	50.000	52.639	60840.44	0.0386	P	0.5
5	☐	125.000	130.819	149073.98	0.0958	P	0.4
6	☐	250.000	256.029	287564.17	0.1875	P	0.4
7	☐	500.000	501.304	529040.41	0.3671	P	0.3
8	☐	1000.000	996.981	1042390.18	0.7301	P	0.3
9	☐			472.24	0.0003	P	10.5

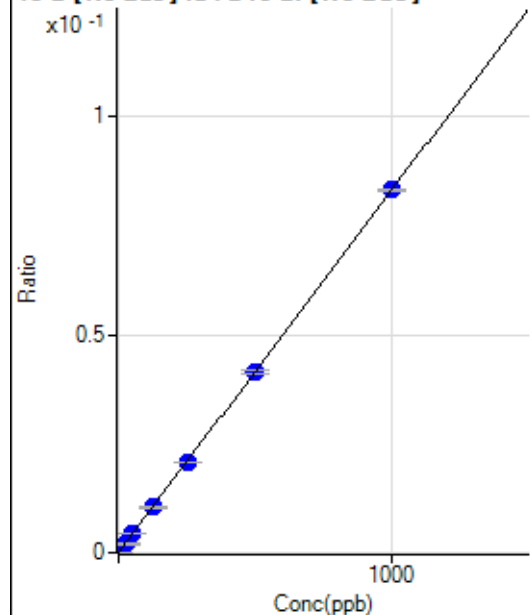
$$y = 7.3226\text{E-}004 * x + 3.4000\text{E-}005$$

$$R = 1.0000$$

$$DL = 0.04149$$

Weight: <None>

Min Conc: 0

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

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	108.34	0.0001	P	20.4
2	☐	2.500					
3	☐	25.000	23.296	3108.78	0.0020	P	3.1
4	☐	50.000	50.530	6729.54	0.0043	P	1.7
5	☐	125.000	124.747	16231.50	0.0104	P	2.6
6	☐	250.000	249.795	31934.67	0.0208	P	1.0
7	☐	500.000	497.296	59643.27	0.0414	P	2.1
8	☐	1000.000	1001.451	118905.77	0.0833	P	0.6
9	☐			3236.59	0.0022	P	4.8

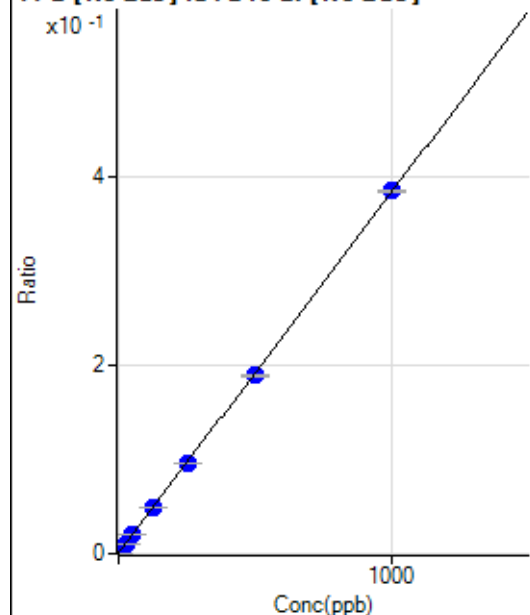
$$y = 8.3092\text{E-}005 * x + 6.8605\text{E-}005$$

$$R = 1.0000$$

$$DL = 0.5062$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	705.60	0.0004	P	5.2
2	☐	2.500					
3	☐	25.000	23.895	14888.44	0.0096	P	1.6
4	☐	50.000	51.278	31684.18	0.0201	P	1.4
5	☐	125.000	126.455	76055.72	0.0489	P	1.9
6	☐	250.000	249.830	147451.34	0.0962	P	1.5
7	☐	500.000	492.410	272455.88	0.1891	P	1.7
8	☐	1000.000	1003.619	549566.91	0.3849	P	0.4
9	☐			14477.00	0.0099	P	7.9

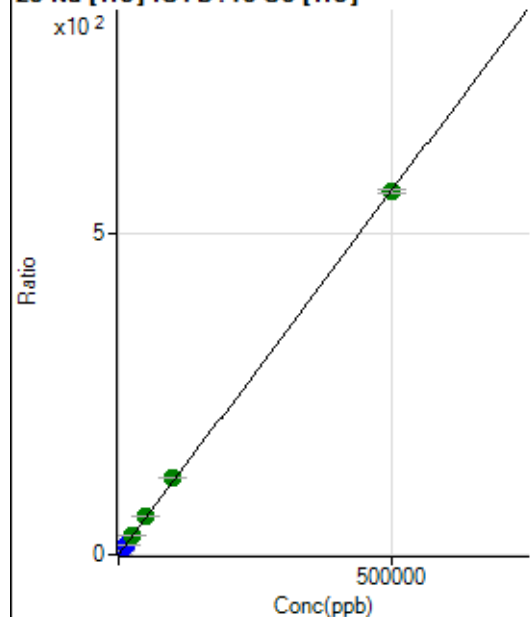
$$y = 3.8308\text{E-}004 * x + 4.4672\text{E-}004$$

$$R = 1.0000$$

$$DL = 0.1811$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	11707.80	0.0460	P	3.0
2	☐	50.000					
3	☐	500.000	481.626	150618.04	0.5928	P	0.5
4	☐	5000.000	5201.746	1510409.53	5.9519	P	0.7
5	☐	12500.000	13375.969	3698985.63	15.2327	P	0.4
6	☐	25000.000	27046.217	7084617.78	30.7534	A	0.2
7	☐	50000.000	53928.401	13917056.04	61.2746	A	0.5
8	☐	100000.00	105033.61	27343809.99	119.2979	A	0.7
9	☐	500000.00	498474.22	134841119.6	565.9983	A	1.0

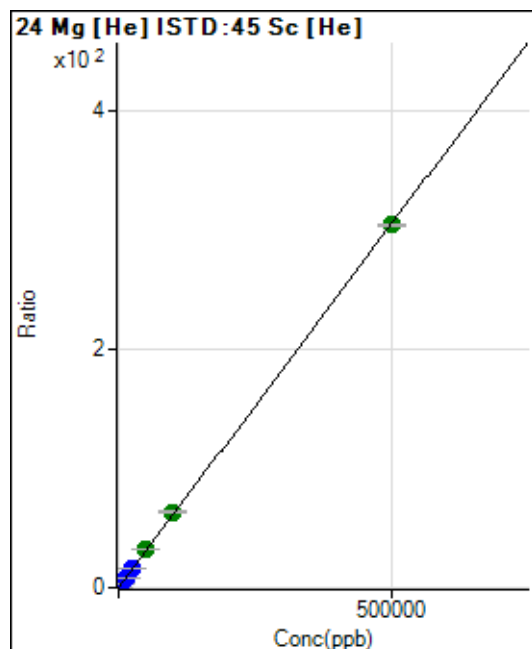
$$y = 0.0011 * x + 0.0460$$

$$R = 0.9999$$

$$DL = 3.628$$

Weight: <None>

Min Conc: 0



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	455.58	0.0018	P	16.3
2	☐	50.000					
3	☐	500.000	484.318	75574.39	0.2974	P	1.4
4	☐	5000.000	5155.751	799141.28	3.1490	P	0.4
5	☐	12500.000	13176.993	1953691.97	8.0454	P	0.1
6	☐	25000.000	27270.669	3835294.88	16.6485	P	0.3
7	☐	50000.000	53742.705	7451371.95	32.8077	A	0.2
8	☐	100000.00	104383.60	14605421.68	63.7202	A	0.5
9	☐	500000.00	498617.00	72511924.54	304.3703	A	0.8

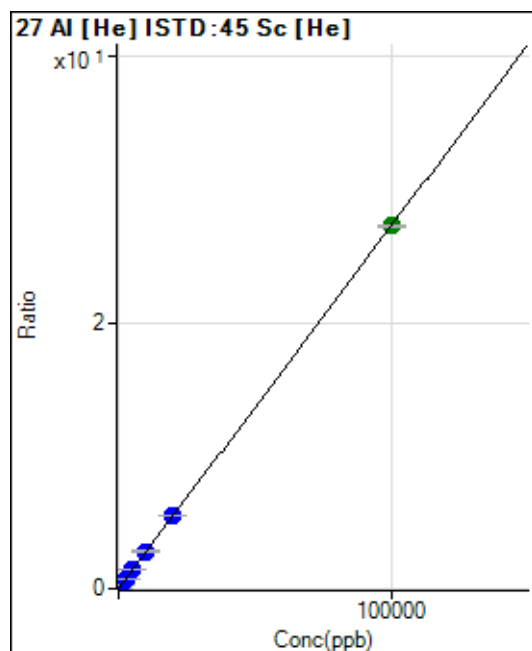
$$y = 6.1043\text{E-}004 * x + 0.0018$$

$$R = 0.9999$$

$$DL = 1.439$$

Weight: <None>

Min Conc: 0



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	44.45	0.0002	P	40.4
2	☐	2.000					
3	☐	20.000	18.188	1305.67	0.0051	P	6.6
4	☐	1000.000	1019.096	70603.36	0.2782	P	1.1
5	☐	2500.000	2583.018	171179.85	0.7049	P	0.4
6	☐	5000.000	5202.858	327071.25	1.4197	P	0.8
7	☐	10000.000	10322.048	639681.40	2.8165	P	0.2
8	☐	20000.000	20205.154	1263640.58	5.5130	P	0.4
9	☐	100000.00	99914.355	6494634.78	27.2610	A	0.6

$$y = 2.7284\text{E-}004 * x + 1.7538\text{E-}004$$

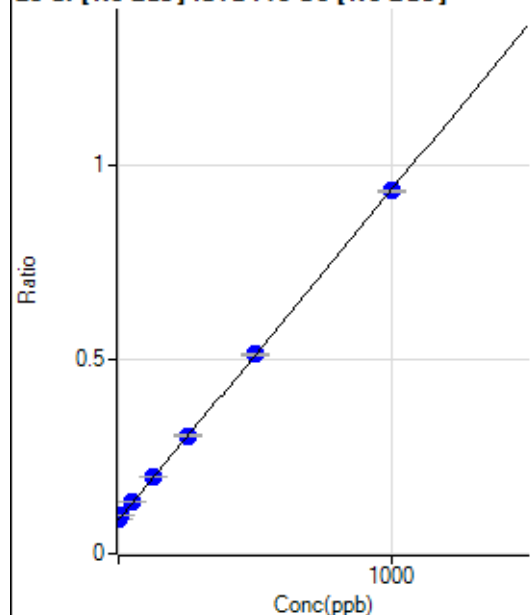
$$R = 1.0000$$

$$DL = 0.7783$$

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	453934.33	0.0869	P	0.5
2	☐	1.000					
3	☐	10.000	16.384	519281.57	0.1008	P	0.9
4	☐	50.000	54.823	686462.12	0.1335	P	0.5
5	☐	125.000	133.153	995776.38	0.2001	P	0.2
6	☐	250.000	254.796	1451058.59	0.3036	P	0.8
7	☐	500.000	501.734	2262009.21	0.5136	P	0.8
8	☐	1000.000	996.610	4182963.68	0.9344	P	0.5
9	☐			881901.97	0.1847	P	1.9

$$y = 8.5043\text{E-}004 * x + 0.0869$$

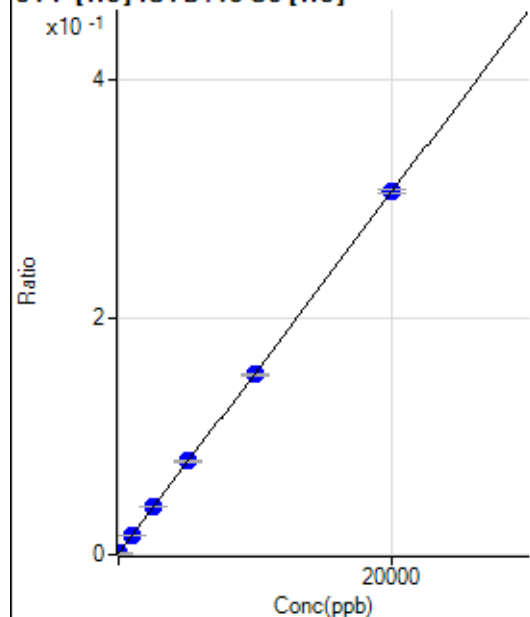
$$R = 1.0000$$

$$DL = 1.478$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	-0.432	211.12	0.0008	P	13.3
2	☐	0.000					
3	☐	0.000	0.432	213.90	0.0008	P	10.0
4	☐	1000.000	1024.319	4172.99	0.0164	P	0.2
5	☐	2500.000	2609.038	9856.41	0.0406	P	1.3
6	☐	5000.000	5113.231	18139.47	0.0787	P	1.1
7	☐	10000.000	9892.899	34426.72	0.1516	P	2.0
8	☐	20000.000	20010.397	70079.09	0.3057	P	1.0
9	☐			197.23	0.0008	P	43.2

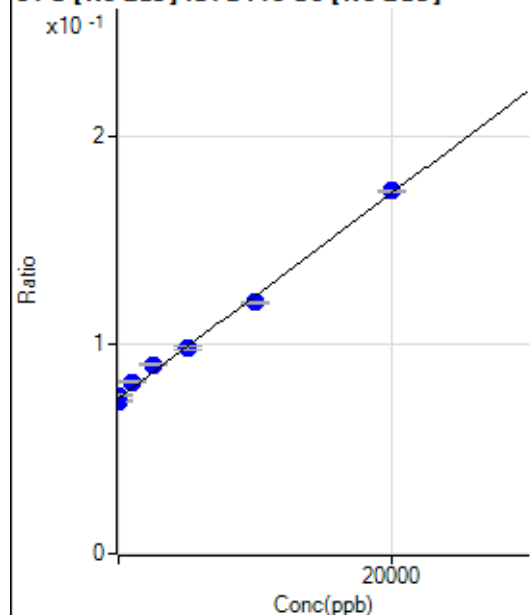
$$y = 1.5237\text{E-}005 * x + 8.3585\text{E-}004$$

$$R = 1.0000$$

$$DL = 19.12$$

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	-285.750	381932.71	0.0731	P	1.1
2	☐	0.000					
3	☐	0.000	285.750	390997.98	0.0759	P	1.5
4	☐	1000.000	1536.451	421932.51	0.0821	P	1.1
5	☐	2500.000	3249.697	450212.61	0.0905	P	1.0
6	☐	5000.000	4953.851	472529.48	0.0989	P	1.5
7	☐	10000.000	9341.397	530369.46	0.1204	P	0.5
8	☐	20000.000	20220.304	778340.17	0.1739	P	0.3
9	☐			308038.61	0.0645	P	1.2

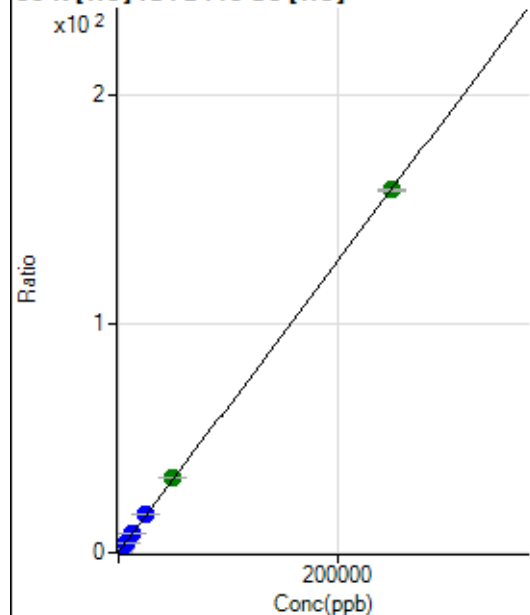
$$y = 4.9140\text{E-}006 * x + 0.0745$$

$$R = 0.9978$$

$$DL = 581.3$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	37258.81	0.1464	P	1.7
2	☐	50.000					
3	☐	500.000	496.885	117156.78	0.4611	P	1.0
4	☐	2500.000	2628.286	459577.16	1.8109	P	0.9
5	☐	6250.000	6505.170	1035966.34	4.2662	P	0.5
6	☐	12500.000	12929.831	1920099.98	8.3349	P	0.3
7	☐	25000.000	26027.974	3777039.71	16.6300	P	0.3
8	☐	50000.000	51202.222	7466318.66	32.5730	A	0.4
9	☐	250000.00	249627.61	37697409.87	158.2364	A	0.7

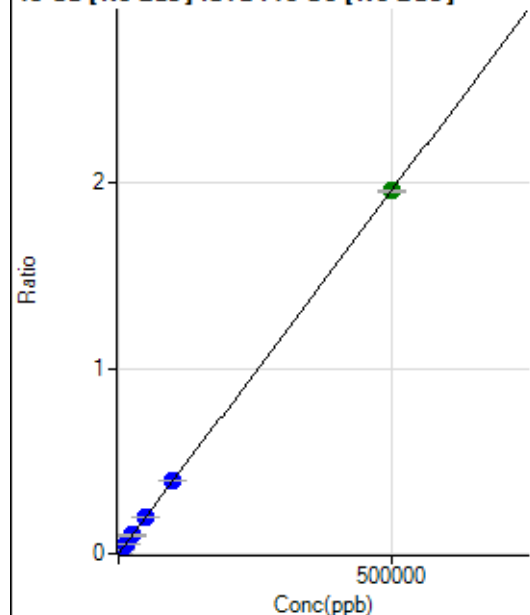
$$y = 6.3330\text{E-}004 * x + 0.1464$$

$$R = 1.0000$$

$$DL = 11.71$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	158.34	0.0000	P	31.9
2	☐	50.000					
3	☐	500.000	470.983	9661.87	0.0019	P	2.0
4	☐	5000.000	5090.566	102719.56	0.0200	P	0.8
5	☐	12500.000	12828.821	250286.77	0.0503	P	0.9
6	☐	25000.000	25220.672	472534.94	0.0989	P	0.7
7	☐	50000.000	50211.706	866762.91	0.1968	P	0.2
8	☐	100000.00	100341.03	1760248.59	0.3932	P	0.3
9	☐	500000.00	499890.49	9353095.52	1.9589	A	0.6

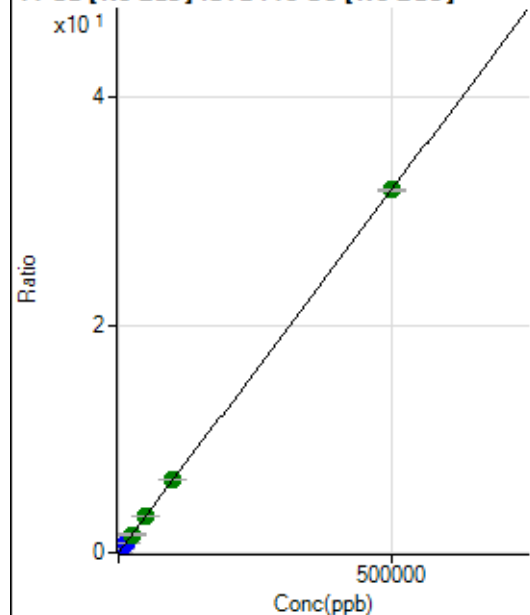
$$y = 3.9185\text{E-}006 * x + 3.0303\text{E-}005$$

$$R = 1.0000$$

$$DL = 7.41$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	8608.46	0.0016	P	4.0
2	☐	50.000					
3	☐	500.000	461.842	159973.15	0.0311	P	0.3
4	☐	5000.000	5070.955	1668801.14	0.3246	P	0.3
5	☐	12500.000	12830.952	4073729.47	0.8187	P	0.3
6	☐	25000.000	25124.429	7655425.09	1.6015	A	0.8
7	☐	50000.000	49953.504	14018006.21	3.1826	A	0.3
8	☐	100000.00	99801.756	28456532.58	6.3568	A	0.1
9	☐	500000.00	500029.13	152038918.6	31.8426	A	0.9

$$y = 6.3678\text{E-}005 * x + 0.0016$$

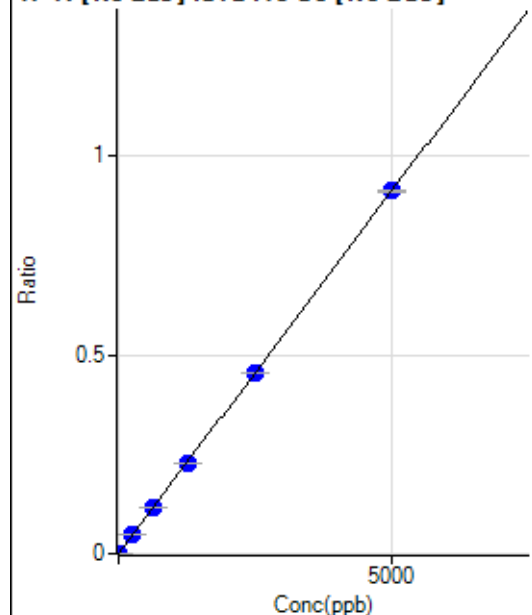
$$R = 1.0000$$

$$DL = 3.142$$

Weight: <None>

Min Conc: 0

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	86.12	0.0000	P	24.2
2	☐	0.500					
3	☐	5.000	4.814	4603.69	0.0009	P	1.0
4	☐	250.000	253.413	237508.78	0.0462	P	0.4
5	☐	625.000	628.236	569688.55	0.1145	P	0.4
6	☐	1250.000	1246.817	1086086.39	0.2272	P	0.8
7	☐	2500.000	2489.190	1997808.36	0.4536	P	0.6
8	☐	5000.000	5005.626	4083093.45	0.9121	P	0.3
9	☐			1314.01	0.0003	P	8.4

$$y = 1.8222\text{E-}004 * x + 1.6477\text{E-}005$$

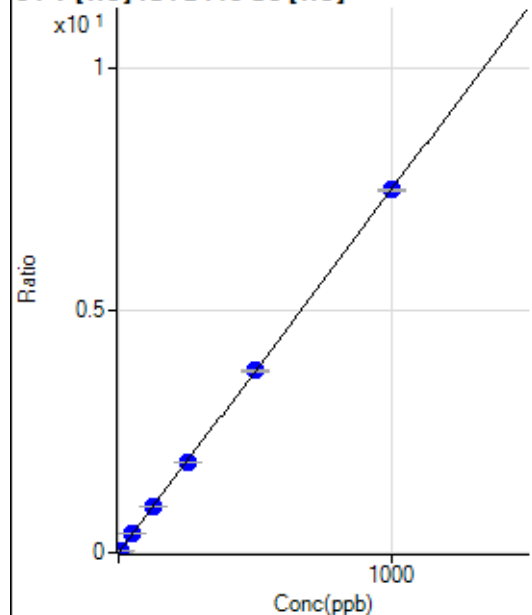
$$R = 1.0000$$

$$DL = 0.06561$$

Weight: <None>

Min Conc: 0

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	15.55	0.0001	P	26.8
2	☐	0.500					
3	☐	5.000	4.869	9289.70	0.0366	P	2.0
4	☐	50.000	50.472	96044.52	0.3785	P	0.2
5	☐	125.000	126.316	229974.94	0.9471	P	0.5
6	☐	250.000	250.736	433061.38	1.8798	P	0.6
7	☐	500.000	501.046	853164.54	3.7564	P	0.6
8	☐	1000.000	999.105	1716867.79	7.4904	P	0.5
9	☐			1157.84	0.0049	P	4.8

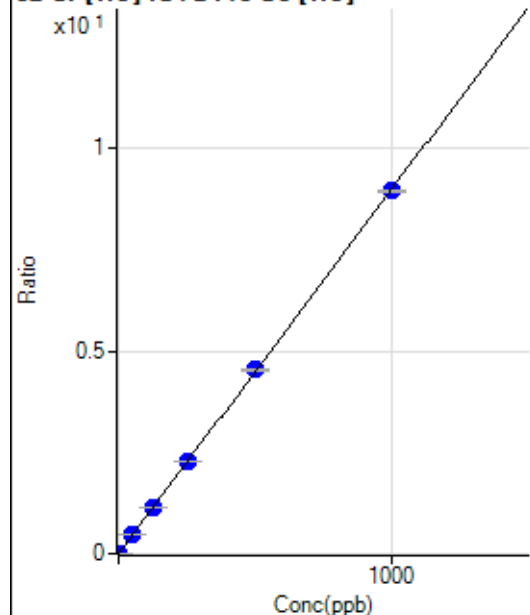
$$y = 0.0075 * x + 6.1310\text{E-}005$$

$$R = 1.0000$$

$$DL = 0.006576$$

Weight: <None>

Min Conc: 0

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

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	295.56	0.0012	P	16.6
2	☐	0.200					
3	☐	2.000	2.046	4960.92	0.0195	P	2.4
4	☐	50.000	51.326	117207.80	0.4619	P	0.9
5	☐	125.000	127.033	277180.70	1.1415	P	0.4
6	☐	250.000	252.890	523202.54	2.2712	P	0.1
7	☐	500.000	505.559	1030957.94	4.5392	P	0.8
8	☐	1000.000	996.177	2049891.81	8.9432	P	0.3
9	☐			102685.43	0.4310	P	0.5

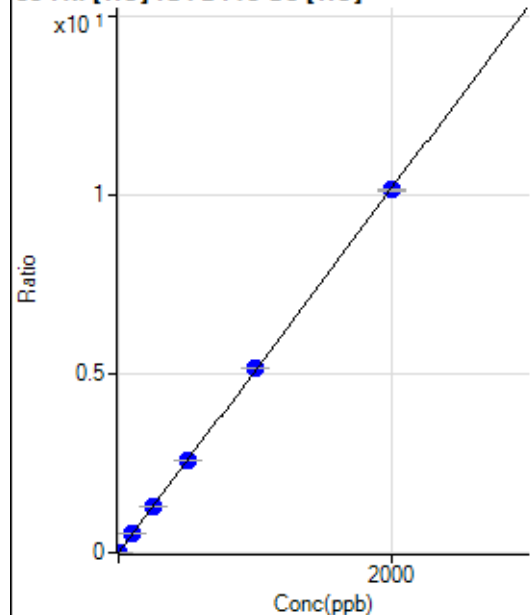
$$y = 0.0090 * x + 0.0012$$

$$R = 1.0000$$

$$DL = 0.06421$$

Weight: <None>

Min Conc: 0

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

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	94.45	0.0004	P	4.5
2	☐	0.100					
3	☐	1.000	0.966	1342.31	0.0053	P	3.2
4	☐	100.000	102.662	132559.35	0.5224	P	0.8
5	☐	250.000	254.565	314400.60	1.2947	P	0.2
6	☐	500.000	506.584	593466.37	2.5761	P	0.6
7	☐	1000.000	1011.123	1167739.23	5.1415	P	0.5
8	☐	2000.000	1992.089	2321748.49	10.1293	P	0.4
9	☐			11883.85	0.0499	P	2.2

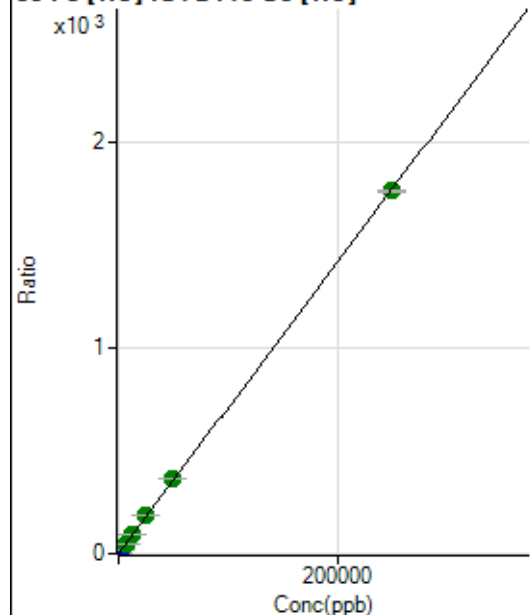
$$y = 0.0051 * x + 3.7101E-004$$

$$R = 1.0000$$

$$DL = 0.009835$$

Weight: <None>

Min Conc: 0

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

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	4923.19	0.0193	P	1.4
2	☐	5.000					
3	☐	50.000	50.472	95704.55	0.3767	P	0.8
4	☐	2500.000	2708.951	4871604.62	19.1968	P	0.5
5	☐	6250.000	6664.795	11462027.92	47.2014	A	0.3
6	☐	12500.000	13300.231	21695578.49	94.1756	A	0.6
7	☐	25000.000	26557.053	42703794.01	188.0246	A	1.0
8	☐	50000.000	52080.517	84514532.44	368.7128	A	0.2
9	☐	250000.00	249375.72	420581964.9	1,765.424	A	0.9

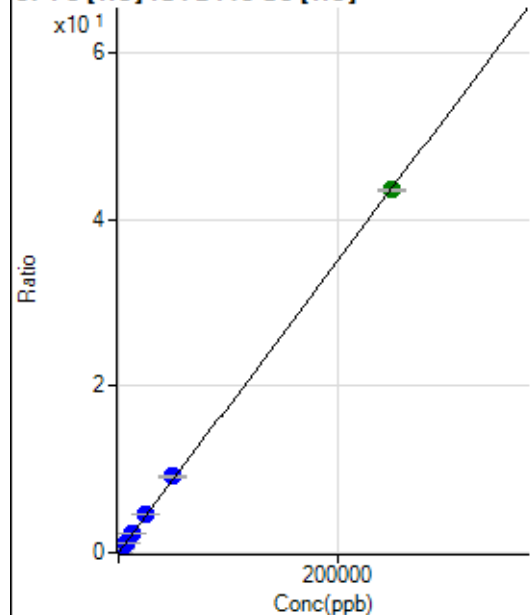
$$y = 0.0071 * x + 0.0193$$

$$R = 1.0000$$

$$DL = 0.1114$$

Weight: <None>

Min Conc: 0

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

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	411.13	0.0016	P	9.9
2	☐	5.000					
3	☐	50.000	51.712	2704.02	0.0106	P	2.2
4	☐	2500.000	2711.723	120501.43	0.4749	P	1.2
5	☐	6250.000	6683.731	283641.65	1.1680	P	0.1
6	☐	12500.000	13346.475	536954.98	2.3308	P	0.6
7	☐	25000.000	26481.253	1049996.81	4.6231	P	0.4
8	☐	50000.000	52239.539	2090026.35	9.1183	P	0.4
9	☐	250000.00	249348.68	10367329.40	43.5173	A	0.7

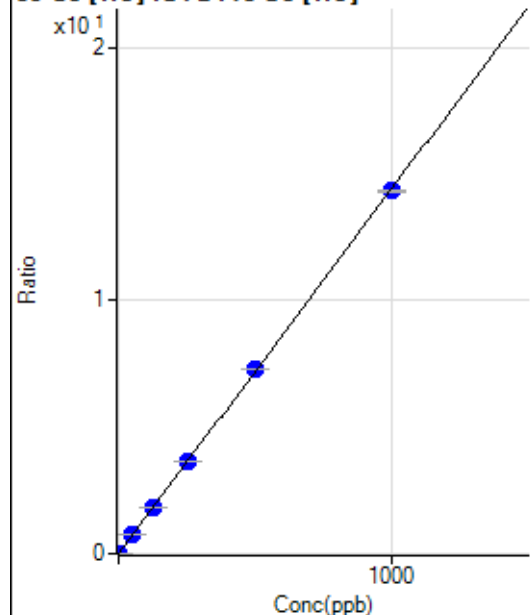
$$y = 1.7452E-004 * x + 0.0016$$

$$R = 0.9999$$

$$DL = 2.76$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	73.34	0.0003	P	26.8
2	☐	0.100					
3	☐	1.000	0.993	3706.09	0.0146	P	0.6
4	☐	50.000	52.307	191295.64	0.7538	P	0.3
5	☐	125.000	128.733	450390.44	1.8547	P	0.2
6	☐	250.000	254.799	845628.45	3.6708	P	0.3
7	☐	500.000	506.527	1657290.27	7.2970	P	0.9
8	☐	1000.000	994.955	3285327.97	14.3330	P	0.4
9	☐			6088.03	0.0256	P	1.3

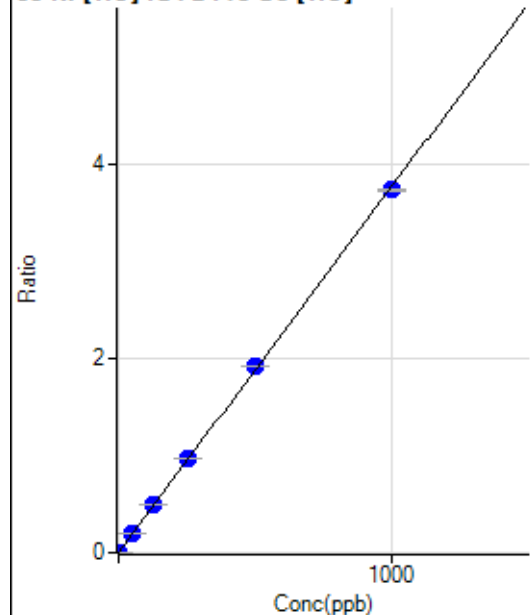
$$y = 0.0144 * x + 2.8735E-004$$

$$R = 1.0000$$

$$DL = 0.01606$$

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	254.45	0.0010	P	6.0
2	☐	0.100					
3	☐	1.000	1.119	1325.64	0.0052	P	4.6
4	☐	50.000	52.872	50849.21	0.2004	P	1.2
5	☐	125.000	131.307	120481.00	0.4961	P	0.2
6	☐	250.000	258.001	224350.17	0.9739	P	0.2
7	☐	500.000	510.500	437443.31	1.9260	P	0.7
8	☐	1000.000	991.818	857481.76	3.7410	P	0.5
9	☐			27345.68	0.1148	P	1.7

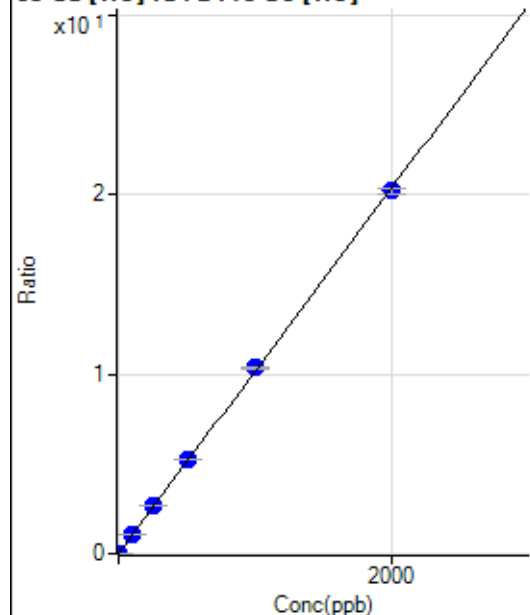
$$y = 0.0038 * x + 9.9931E-004$$

$$R = 0.9999$$

$$DL = 0.04807$$

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	1322.30	0.0052	P	5.2
2	☐	0.200					
3	☐	2.000	2.023	6541.57	0.0257	P	1.0
4	☐	100.000	104.935	271871.50	1.0713	P	0.1
5	☐	250.000	260.954	645046.96	2.6564	P	0.4
6	☐	500.000	514.487	1205306.26	5.2321	P	0.0
7	☐	1000.000	1018.053	2350292.85	10.3481	P	0.8
8	☐	2000.000	1985.736	4625021.74	20.1793	P	1.2
9	☐			10840.83	0.0455	P	1.3

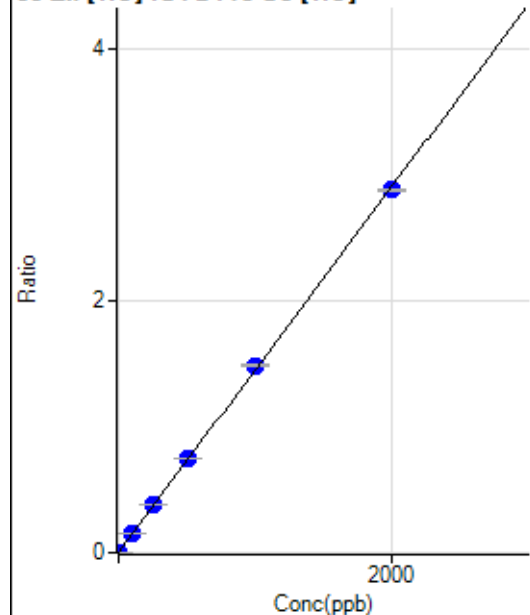
$$y = 0.0102 * x + 0.0052$$

$$R = 0.9999$$

$$DL = 0.07916$$

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	402.24	0.0016	P	6.5
2	☐	0.200					
3	☐	2.000	1.903	1101.17	0.0043	P	2.8
4	☐	100.000	102.866	38213.42	0.1506	P	0.5
5	☐	250.000	257.958	91117.50	0.3752	P	0.5
6	☐	500.000	512.505	171379.72	0.7439	P	1.1
7	☐	1000.000	1022.298	336676.94	1.4824	P	1.2
8	☐	2000.000	1984.587	659258.21	2.8762	P	0.7
9	☐			3109.27	0.0130	P	2.8

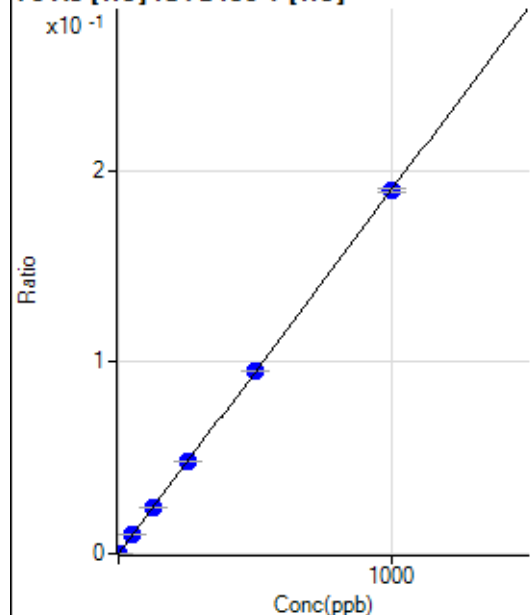
$$y = 0.0014 * x + 0.0016$$

$$R = 0.9999$$

$$DL = 0.2141$$

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	8.64	0.0000	P	10.7
2	☐	0.100					
3	☐	1.000	0.926	264.82	0.0002	P	2.0
4	☐	50.000	50.757	14080.98	0.0096	P	1.1
5	☐	125.000	128.621	34056.45	0.0244	P	0.7
6	☐	250.000	252.405	62966.30	0.0479	P	0.7
7	☐	500.000	502.950	124616.47	0.0954	P	0.8
8	☐	1000.000	997.433	249341.96	0.1893	P	0.9
9	☐			130.87	0.0001	P	14.3

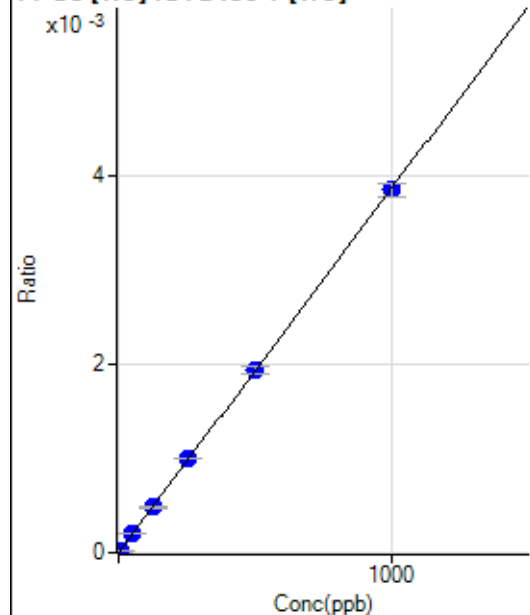
$$y = 1.8975\text{E-}004 * x + 5.8816\text{E-}006$$

$$R = 1.0000$$

$$DL = 0.009909$$

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	☐	0.500					
3	☐	5.000	4.537	26.67	0.0000	P	13.8
4	☐	50.000	52.569	297.79	0.0002	P	2.6
5	☐	125.000	124.963	674.47	0.0005	P	6.1
6	☐	250.000	258.940	1315.64	0.0010	P	1.5
7	☐	500.000	502.823	2536.93	0.0019	P	3.7
8	☐	1000.000	996.232	5072.09	0.0038	P	3.8
9	☐			1.11	0.0000	P	173.

$$y = 3.8624\text{E-}006 * x + 7.7280\text{E-}007$$

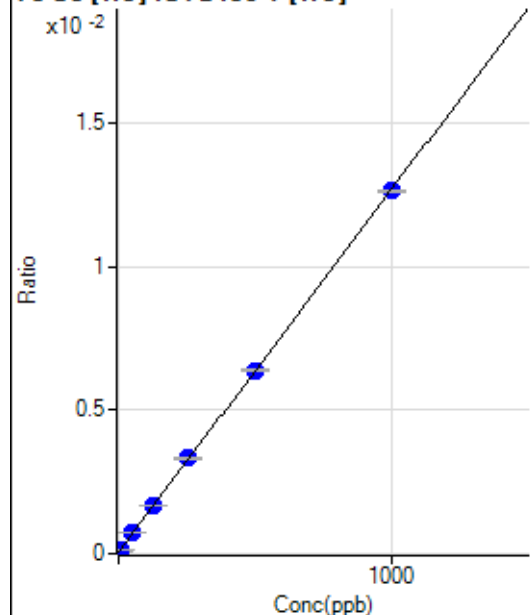
$$R = 0.9999$$

$$DL = 1.04$$

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	75.93	0.0001	P	21.4
2	☐	0.500					
3	☐	5.000	5.160	170.99	0.0001	P	16.1
4	☐	50.000	53.740	1066.72	0.0007	P	6.8
5	☐	125.000	129.133	2346.51	0.0017	P	0.9
6	☐	250.000	259.070	4367.37	0.0033	P	1.4
7	☐	500.000	501.972	8341.34	0.0064	P	0.6
8	☐	1000.000	996.042	16633.68	0.0126	P	0.4
9	☐			82.10	0.0001	P	19.8

$$y = 1.2623\text{E-}005 * x + 5.1875\text{E-}005$$

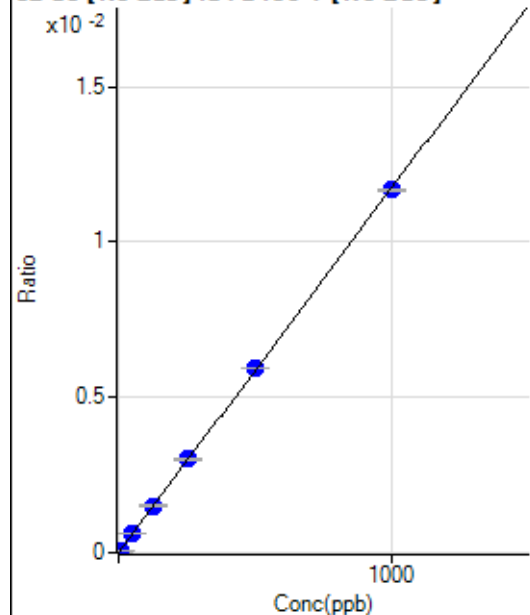
$$R = 1.0000$$

$$DL = 2.639$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	31.02	0.0000	P	86.6
2	☐	0.500					
3	☐	5.000	4.480	502.91	0.0001	P	8.6
4	☐	50.000	50.474	5381.15	0.0006	P	0.5
5	☐	125.000	128.953	13334.94	0.0015	P	2.3
6	☐	250.000	256.230	26217.79	0.0030	P	1.6
7	☐	500.000	505.442	49273.86	0.0059	P	0.1
8	☐	1000.000	995.206	98563.63	0.0117	P	0.3
9	☐			92.06	0.0000	P	62.5

$$y = 1.1724\text{E-}005 * x + 3.4040\text{E-}006$$

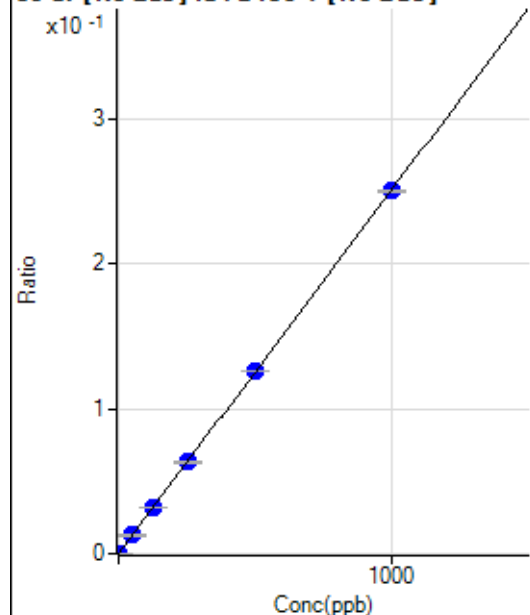
$$R = 0.9999$$

$$DL = 0.7541$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	658.38	0.0001	P	21.1
2	☐	0.100					
3	☐	1.000	1.033	2975.44	0.0003	P	7.4
4	☐	50.000	50.271	114439.84	0.0127	P	1.2
5	☐	125.000	127.228	280970.29	0.0319	P	0.0
6	☐	250.000	251.681	549894.84	0.0631	P	0.9
7	☐	500.000	502.557	1046147.25	0.1259	P	0.2
8	☐	1000.000	998.009	2110566.04	0.2499	P	0.4
9	☐			72120.23	0.0084	P	0.7

$$y = 2.5034\text{E-}004 * x + 7.2226\text{E-}005$$

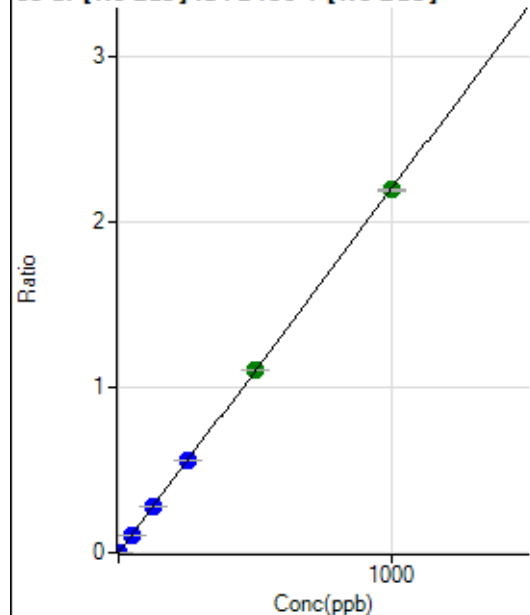
$$R = 1.0000$$

$$DL = 0.1823$$

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	197.23	0.0000	P	2.6
2	☐	0.100					
3	☐	1.000	0.960	19194.06	0.0021	P	4.6
4	☐	50.000	49.978	994416.45	0.1100	P	0.3
5	☐	125.000	127.046	2460462.17	0.2795	P	0.4
6	☐	250.000	255.248	4896220.33	0.5616	P	0.1
7	☐	500.000	502.945	9196215.05	1.1066	A	0.2
8	☐	1000.000	996.961	18524404.58	2.1935	A	0.3
9	☐			635579.99	0.0742	P	0.6

$$y = 0.0022 * x + 2.1633\text{E-}005$$

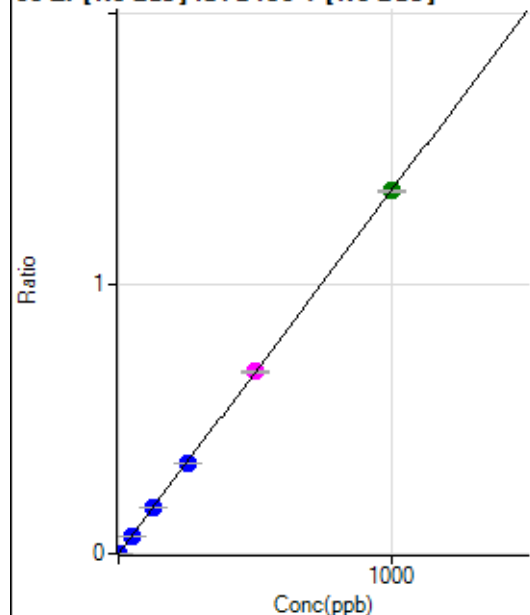
$$R = 1.0000$$

$$DL = 0.0007663$$

Weight: <None>

Min Conc: 0

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	547.25	0.0001	P	12.9
2	☐	0.100					
3	☐	1.000	0.973	12291.92	0.0014	P	5.2
4	☐	50.000	49.441	601257.86	0.0665	P	0.6
5	☐	125.000	125.699	1487207.62	0.1690	P	0.8
6	☐	250.000	251.045	2941623.53	0.3374	P	0.3
7	☐	500.000	500.588	5590740.23	0.6727	M	1.0
8	☐	1000.000	999.385	11341880.81	1.3430	A	0.7
9	☐			4075.74	0.0005	P	3.9

$$y = 0.0013 * x + 6.0012E-005$$

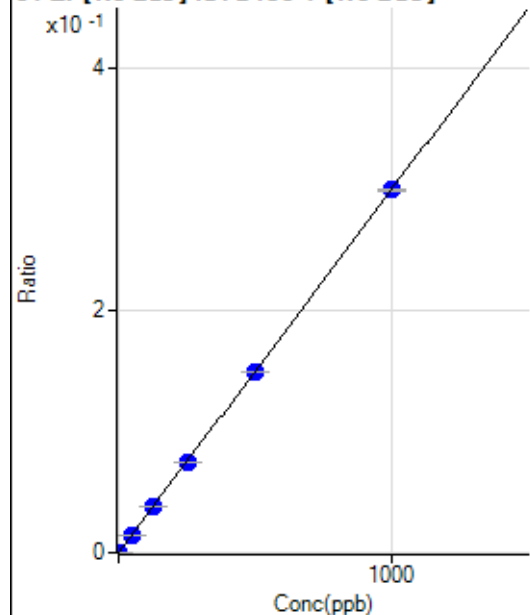
$$R = 1.0000$$

$$DL = 0.01734$$

Weight: <None>

Min Conc: 0

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	100.00	0.0000	P	38.4
2	☐	0.100					
3	☐	1.000	0.945	2644.82	0.0003	P	5.3
4	☐	50.000	50.042	135748.79	0.0150	P	0.4
5	☐	125.000	126.279	333314.99	0.0379	P	0.1
6	☐	250.000	250.130	653866.41	0.0750	P	0.6
7	☐	500.000	500.273	1246524.55	0.1500	P	0.1
8	☐	1000.000	999.669	2531078.77	0.2997	P	0.8
9	☐			883.40	0.0001	P	5.8

$$y = 2.9980E-004 * x + 1.0973E-005$$

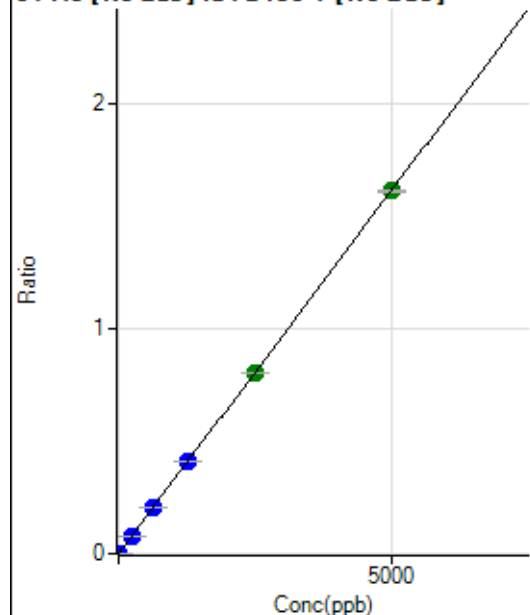
$$R = 1.0000$$

$$DL = 0.04214$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	216.68	0.0000	P	26.7
2	☐	0.400					
3	☐	4.000	4.785	14074.09	0.0016	P	2.8
4	☐	250.000	249.543	727094.02	0.0804	P	0.7
5	☐	625.000	630.926	1789183.37	0.2033	P	0.4
6	☐	1250.000	1269.870	3566763.71	0.4091	P	0.3
7	☐	2500.000	2499.023	6690824.71	0.8051	A	0.1
8	☐	5000.000	4994.802	13589302.56	1.6091	A	0.7
9	☐			18240.08	0.0021	P	2.2

$$y = 3.2215E-004 * x + 2.3756E-005$$

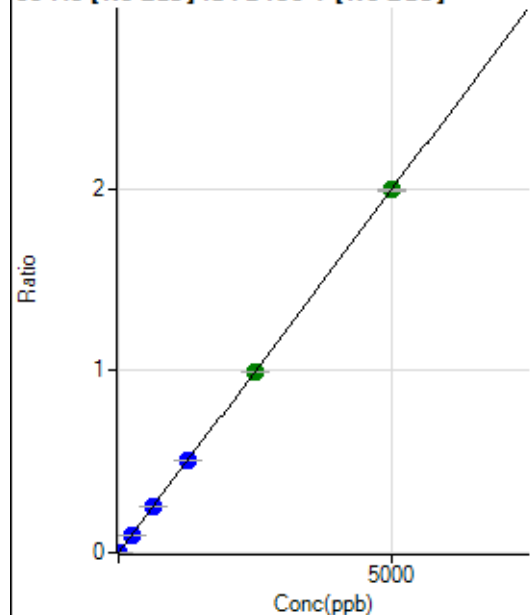
$$R = 1.0000$$

$$DL = 0.05916$$

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	72.22	0.0000	P	83.5
2	☐	0.400					
3	☐	4.000	4.749	17108.06	0.0019	P	3.2
4	☐	250.000	246.844	890657.19	0.0985	P	0.1
5	☐	625.000	627.990	2205623.57	0.2506	P	0.3
6	☐	1250.000	1261.509	4388640.50	0.5034	P	0.2
7	☐	2500.000	2495.436	8275328.31	0.9958	A	0.3
8	☐	5000.000	4999.188	16846628.33	1.9948	A	0.7
9	☐			29086.27	0.0034	P	0.7

$$y = 3.9903E-004 * x + 7.9201E-006$$

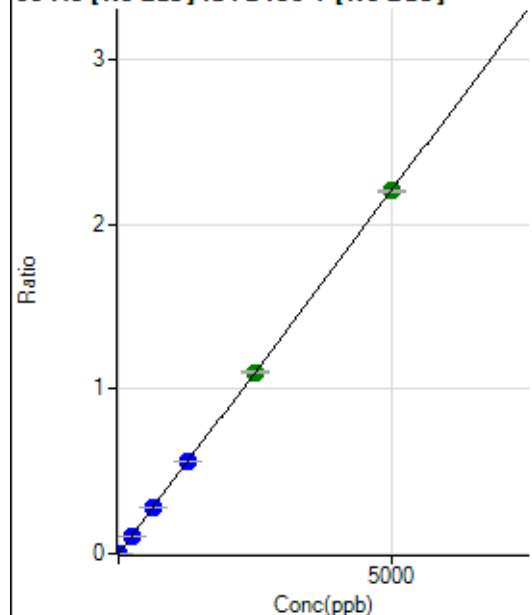
$$R = 1.0000$$

$$DL = 0.0497$$

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	155.56	0.0000	P	20.1
2	☐	0.400					
3	☐	4.000	4.688	18754.70	0.0021	P	1.8
4	☐	250.000	248.722	992613.14	0.1098	P	0.2
5	☐	625.000	631.382	2452627.27	0.2787	P	0.5
6	☐	1250.000	1275.863	4908818.56	0.5631	P	0.7
7	☐	2500.000	2496.612	9156550.81	1.1018	A	0.7
8	☐	5000.000	4994.494	18614525.59	2.2042	A	0.6
9	☐			35486.85	0.0041	P	2.1

$$y = 4.4131E-004 * x + 1.7058E-005$$

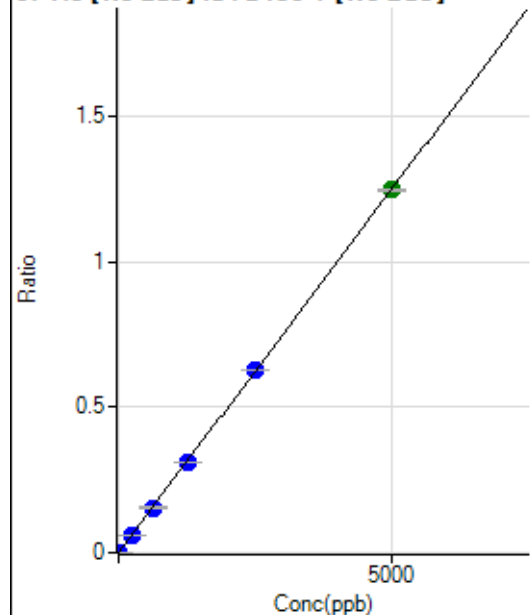
$$R = 1.0000$$

$$DL = 0.02331$$

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	108.34	0.0000	P	35.2
2	☐	0.400					
3	☐	4.000	4.639	10515.43	0.0012	P	1.7
4	☐	250.000	244.957	552791.75	0.0611	P	0.9
5	☐	625.000	621.349	1364810.75	0.1551	P	0.4
6	☐	1250.000	1245.369	2709357.81	0.3108	P	0.6
7	☐	2500.000	2513.021	5211639.61	0.6271	P	0.9
8	☐	5000.000	4995.355	10527352.32	1.2465	A	0.4
9	☐			18476.51	0.0022	P	2.5

$$y = 2.4954E-004 * x + 1.1878E-005$$

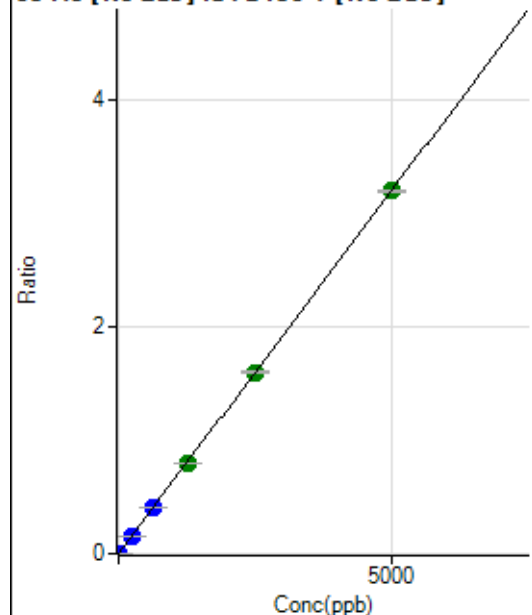
$$R = 1.0000$$

$$DL = 0.05022$$

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	119.45	0.0000	P	16.3
2	☐	0.400					
3	☐	4.000	4.636	26764.90	0.0030	P	2.3
4	☐	250.000	248.119	1434126.18	0.1586	P	0.2
5	☐	625.000	630.515	3547374.30	0.4030	P	0.5
6	☐	1250.000	1247.039	6949235.14	0.7971	A	0.7
7	☐	2500.000	2501.828	13290220.61	1.5992	A	0.5
8	☐	5000.000	4999.231	26987223.52	3.1955	A	0.4
9	☐			46095.06	0.0054	P	1.7

$$y = 6.3920\text{E-}004 * x + 1.3103\text{E-}005$$

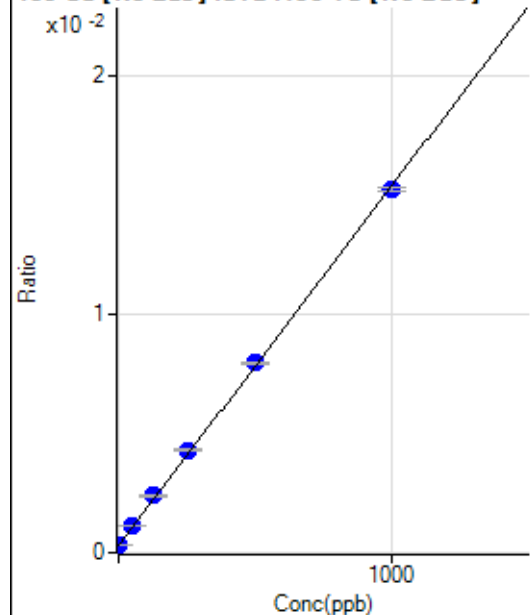
$$R = 1.0000$$

$$DL = 0.01002$$

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	3358.88	0.0003	P	4.2
2	☐	0.100					
3	☐	1.000	0.555	3397.77	0.0003	P	3.6
4	☐	50.000	53.910	12822.99	0.0011	P	1.0
5	☐	125.000	139.373	27541.57	0.0024	P	1.1
6	☐	250.000	266.267	51349.81	0.0043	P	1.7
7	☐	500.000	508.264	94400.31	0.0080	P	0.6
8	☐	1000.000	989.809	183076.47	0.0152	P	1.2
9	☐			3217.18	0.0003	P	6.5

$$y = 1.5082\text{E-}005 * x + 2.8963\text{E-}004$$

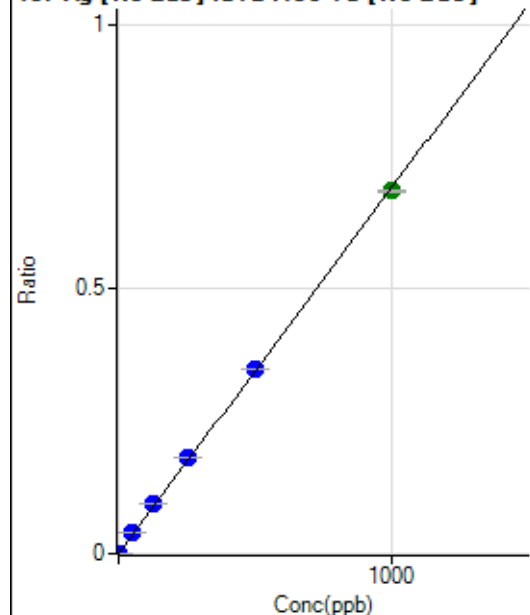
$$R = 0.9997$$

$$DL = 2.438$$

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	105.56	0.0000	P	56.8
2	☐	0.100					
3	☐	1.000	1.106	8814.25	0.0008	P	2.8
4	☐	50.000	55.411	445088.17	0.0383	P	0.6
5	☐	125.000	137.289	1091866.07	0.0948	P	0.8
6	☐	250.000	262.786	2164476.37	0.1815	P	0.8
7	☐	500.000	505.824	4145292.76	0.3493	P	0.2
8	☐	1000.000	992.085	8242251.74	0.6851	A	0.7
9	☐			1022.31	0.0001	P	5.4

$$y = 6.9058\text{E-}004 * x + 9.0932\text{E-}006$$

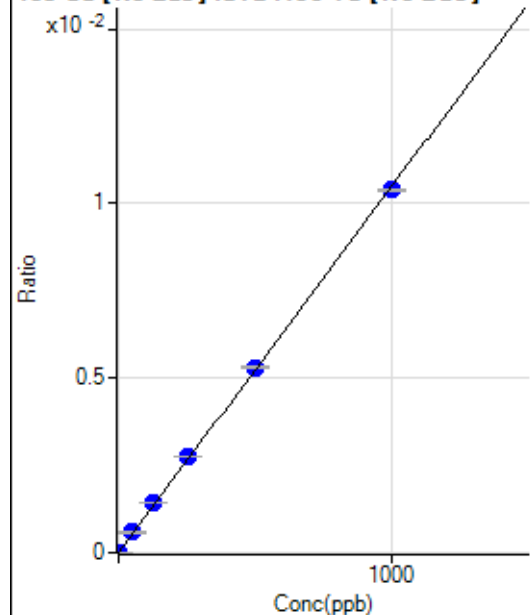
$$R = 0.9998$$

$$DL = 0.02245$$

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	1.39	0.0000	P	173.
2	☐	0.100					
3	☐	1.000	1.034	125.01	0.0000	P	24.7
4	☐	50.000	55.846	6805.95	0.0006	P	4.2
5	☐	125.000	137.561	16598.86	0.0014	P	1.5
6	☐	250.000	263.592	32939.90	0.0028	P	0.3
7	☐	500.000	506.573	62985.27	0.0053	P	0.2
8	☐	1000.000	991.453	124969.50	0.0104	P	0.5
9	☐			44.45	0.0000	P	9.7

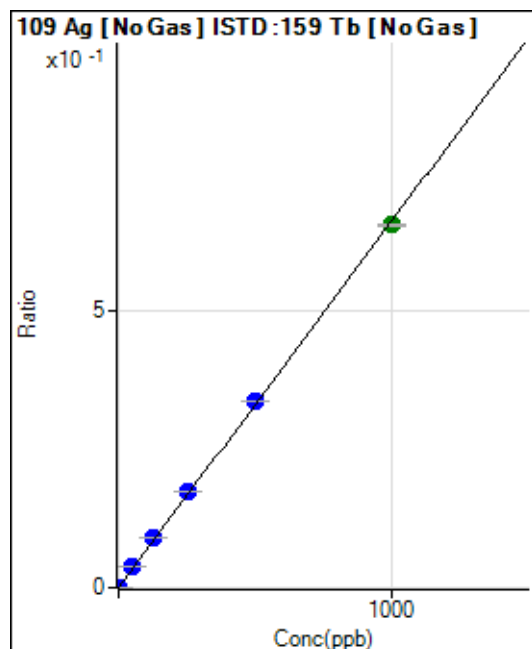
$$y = 1.0477\text{E-}005 * x + 1.1951\text{E-}007$$

$$R = 0.9998$$

$$DL = 0.05927$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	86.11	0.0000	P	53.1
2	☐	0.100					
3	☐	1.000	1.074	8199.97	0.0007	P	2.1
4	☐	50.000	55.642	429051.26	0.0369	P	0.4
5	☐	125.000	137.620	1050719.49	0.0912	P	0.4
6	☐	250.000	263.053	2079973.57	0.1744	P	0.6
7	☐	500.000	508.899	4003634.60	0.3374	P	0.2
8	☐	1000.000	990.428	7899110.85	0.6566	A	0.3
9	☐			988.96	0.0001	P	3.7

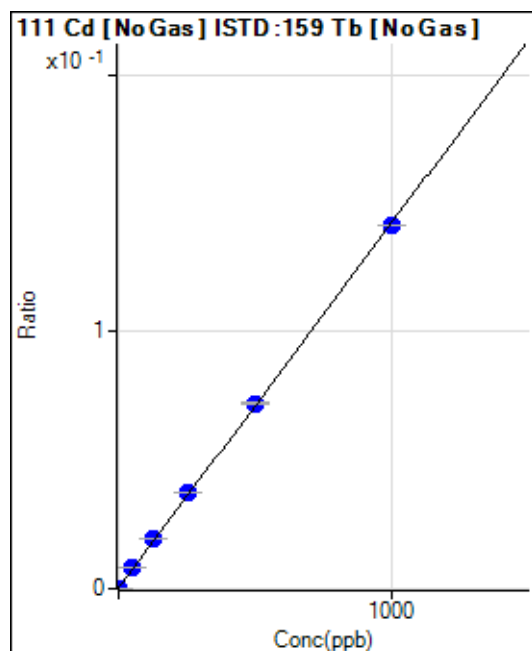
$$y = 6.6294\text{E-}004 * x + 7.4162\text{E-}006$$

$$R = 0.9998$$

$$DL = 0.01783$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	2365.52	0.0002	P	4.4
2	☐	0.100					
3	☐	1.000	0.979	3911.90	0.0003	P	5.2
4	☐	50.000	54.335	92202.78	0.0079	P	0.3
5	☐	125.000	135.934	224889.19	0.0195	P	0.6
6	☐	250.000	261.233	445379.04	0.0373	P	0.7
7	☐	500.000	506.517	856960.48	0.0722	P	0.4
8	☐	1000.000	992.350	1699698.31	0.1413	P	0.1
9	☐			2526.48	0.0002	P	4.9

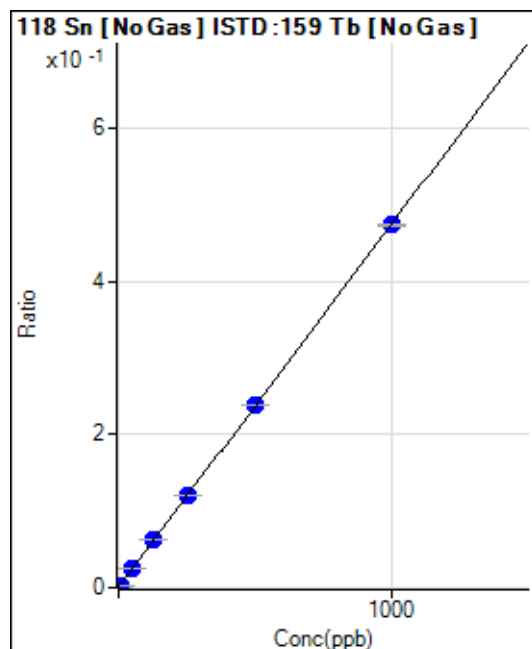
$$y = 1.4217\text{E-}004 * x + 2.0397\text{E-}004$$

$$R = 0.9999$$

$$DL = 0.1887$$

Weight: <None>

Min Conc: 0



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	5237.34	0.0005	P	5.2
2	☐	0.500					
3	☐	5.000	5.068	32541.63	0.0029	P	1.9
4	☐	50.000	52.367	293892.17	0.0253	P	0.4
5	☐	125.000	130.459	717255.10	0.0623	P	0.6
6	☐	250.000	253.221	1436845.31	0.1205	P	0.2
7	☐	500.000	500.436	2820197.72	0.2377	P	0.2
8	☐	1000.000	998.176	5697186.85	0.4736	P	0.3
9	☐			10579.44	0.0009	P	0.5

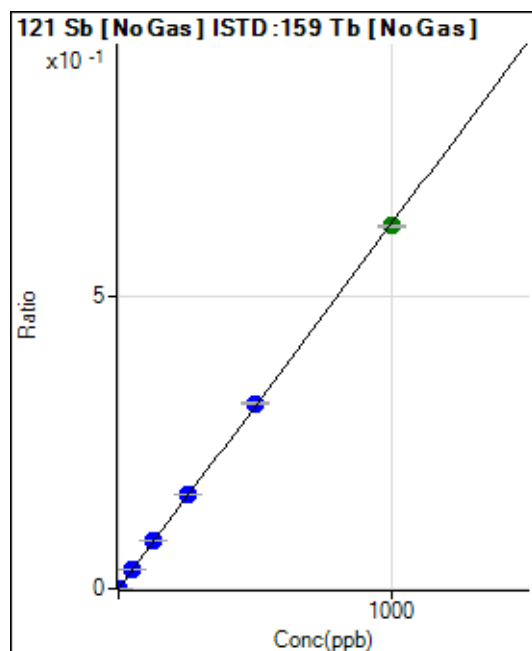
$$y = 4.7399\text{E-}004 * x + 4.5166\text{E-}004$$

$$R = 1.0000$$

$$DL = 0.1473$$

Weight: <None>

Min Conc: 0



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	52.78	0.0000	P	36.3
2	☐	0.200					
3	☐	2.000	1.940	13865.81	0.0012	P	3.9
4	☐	50.000	52.022	377820.25	0.0325	P	0.6
5	☐	125.000	131.032	942276.96	0.0818	P	0.5
6	☐	250.000	255.862	1905590.28	0.1598	P	0.2
7	☐	500.000	507.447	3760368.10	0.3169	P	0.5
8	☐	1000.000	993.956	7466871.00	0.6207	A	0.6
9	☐			12205.86	0.0011	P	5.1

$$y = 6.2445\text{E-}004 * x + 4.5500\text{E-}006$$

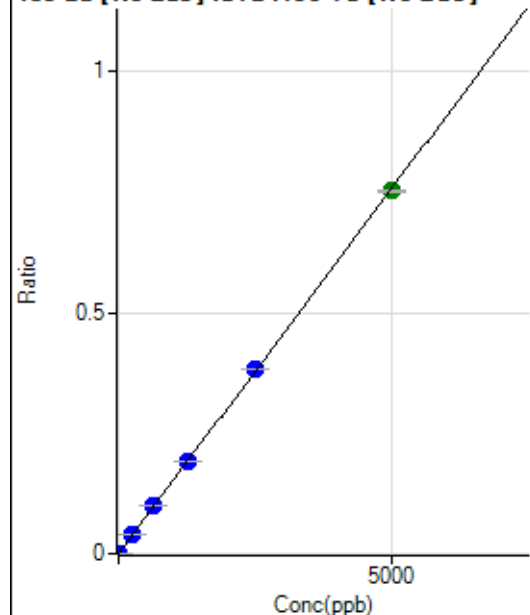
$$R = 0.9999$$

$$DL = 0.007942$$

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	111.12	0.0000	P	21.9
2	☐	1.000					
3	☐	10.000	9.883	17155.79	0.0015	P	2.7
4	☐	250.000	259.259	456094.88	0.0392	P	0.5
5	☐	625.000	654.642	1140249.81	0.0990	P	0.4
6	☐	1250.000	1276.215	2302157.50	0.1930	P	0.1
7	☐	2500.000	2533.535	4547255.01	0.3832	P	0.0
8	☐	5000.000	4972.511	9047510.27	0.7521	A	0.2
9	☐			3520.06	0.0003	P	2.7

$$y = 1.5124\text{E-}004 * x + 9.5855\text{E-}006$$

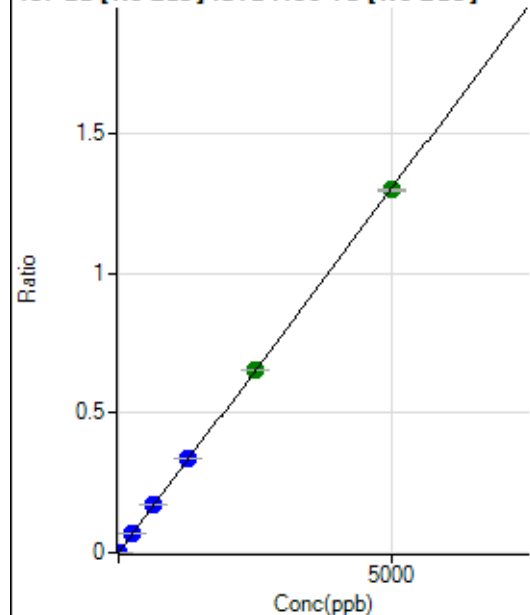
$$R = 0.9999$$

$$DL = 0.04158$$

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	147.23	0.0000	P	21.8
2	☐	1.000					
3	☐	10.000	9.913	29651.93	0.0026	P	1.7
4	☐	250.000	259.938	789200.59	0.0679	P	0.6
5	☐	625.000	658.357	1979191.93	0.1719	P	0.4
6	☐	1250.000	1296.664	4036974.35	0.3385	P	0.3
7	☐	2500.000	2503.727	7755826.30	0.6536	A	0.3
8	☐	5000.000	4981.804	15644462.68	1.3004	A	0.7
9	☐			5756.99	0.0005	P	5.1

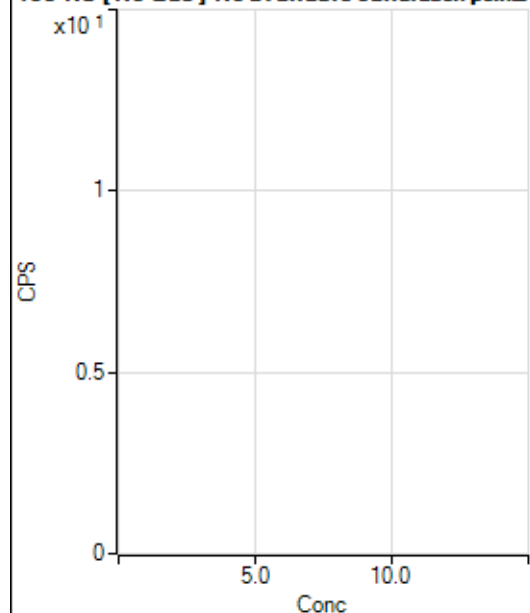
$$y = 2.6104\text{E-}004 * x + 1.2703\text{E-}005$$

$$R = 0.9999$$

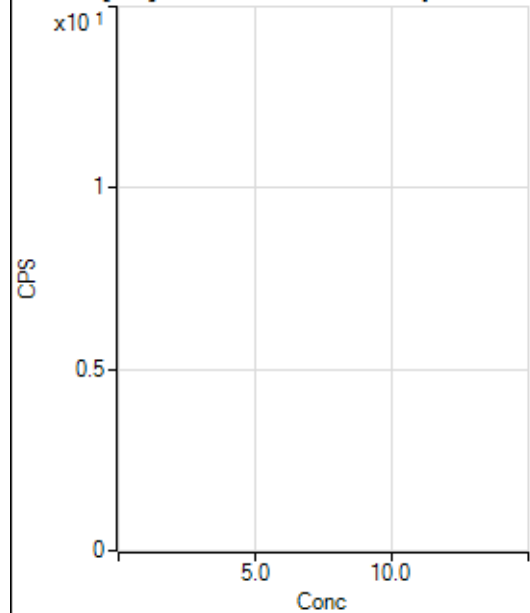
$$DL = 0.03186$$

Weight: <None>

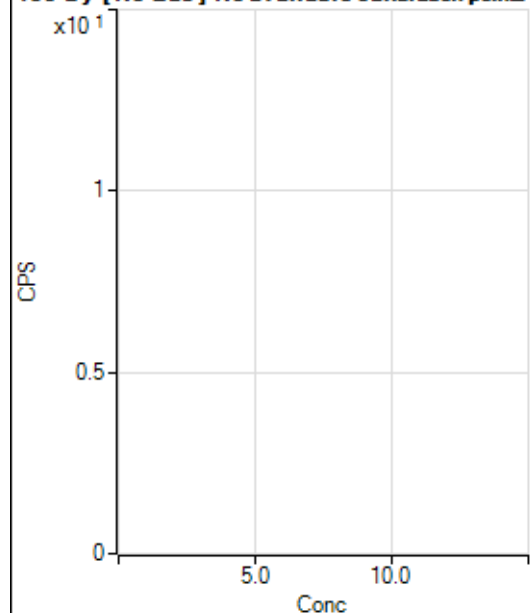
Min Conc: 0

150 Nd [No Gas] No available calibration points

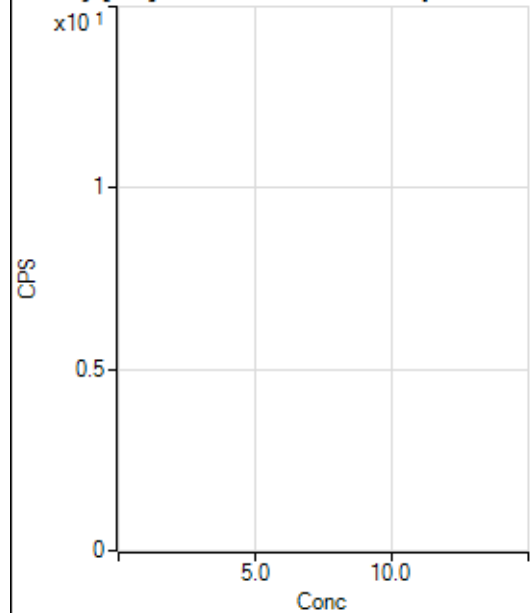
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			17.78		P	114.
2	☐						
3	☐			4.44		P	173.
4	☐			37.78		P	53.9
5	☐			97.78		P	17.2
6	☐			182.23		P	5.6
7	☐			302.24		P	5.6
8	☐			628.92		P	11.0
9	☐			60.00		P	19.2

150 Nd [He] No available calibration points

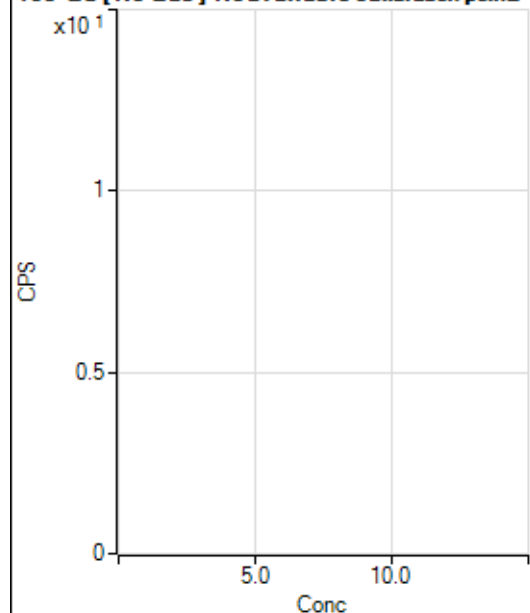
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1.11		P	173.
2	☐						
3	☐			1.11		P	173.
4	☐			6.67		P	50.0
5	☐			10.00		P	57.8
6	☐			26.66		P	21.7
7	☐			45.55		P	36.8
8	☐			64.45		P	16.6
9	☐			32.22		P	26.0

156 Dy [No Gas] No available calibration points

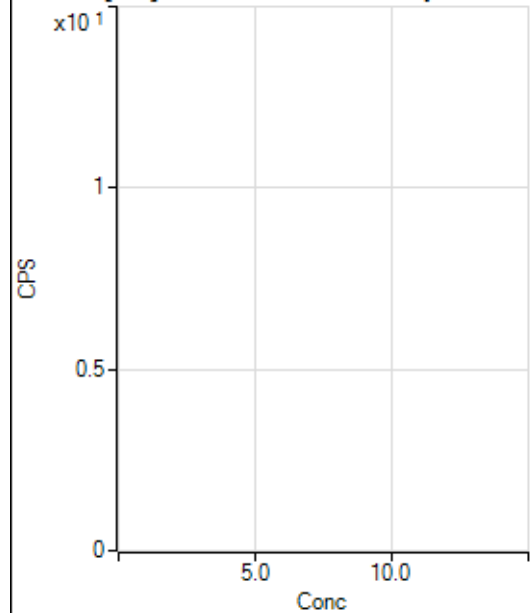
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			8.33		P	100.
2	☐						
3	☐			11.11		P	86.6
4	☐			27.78		P	45.8
5	☐			25.00		P	57.7
6	☐			38.89		P	49.5
7	☐			77.78		P	37.6
8	☐			138.90		P	48.5
9	☐			66.67		P	12.5

156 Dy [He] No available calibration points

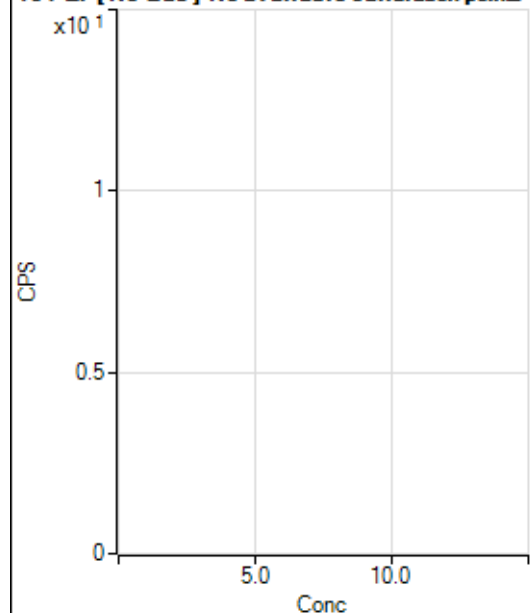
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			7.78		P	89.2
2	☐						
3	☐			6.67		P	50.0
4	☐			12.22		P	56.8
5	☐			23.33		P	24.7
6	☐			27.78		P	36.7
7	☐			50.00		P	6.7
8	☐			94.45		P	12.4
9	☐			30.00		P	66.7

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

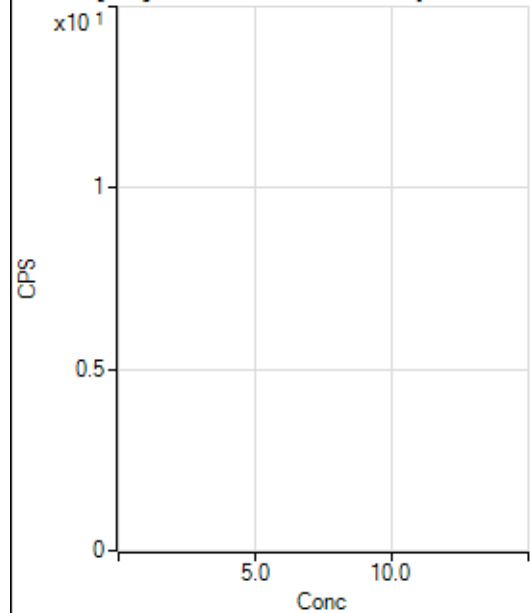
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			105.56		P	25.4
2	☐						
3	☐			69.45		P	61.6
4	☐			75.00		P	19.2
5	☐			77.78		P	22.3
6	☐			75.00		P	44.4
7	☐			105.56		P	16.4
8	☐			125.00		P	35.3
9	☐			108.34		P	30.8

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			147.78		P	13.8
2	☐						
3	☐			140.00		P	23.0
4	☐			122.22		P	5.7
5	☐			110.01		P	22.9
6	☐			138.89		P	3.7
7	☐			137.78		P	13.8
8	☐			125.56		P	13.4
9	☐			152.22		P	4.6

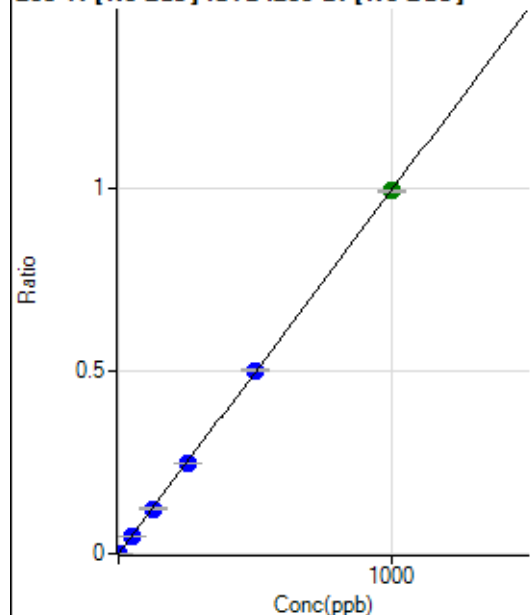
164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			19.44		P	49.5
2	☐						
3	☐			47.23		P	56.7
4	☐			30.55		P	68.6
5	☐			50.00		P	66.7
6	☐			55.56		P	31.2
7	☐			36.11		P	26.7
8	☐			38.89		P	44.6
9	☐			80.56		P	33.3

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			17.78		P	28.6
2	☐						
3	☐			34.44		P	44.7
4	☐			23.34		P	89.2
5	☐			21.11		P	55.4
6	☐			22.22		P	37.8
7	☐			33.33		P	20.0
8	☐			27.78		P	30.2
9	☐			20.00		P	16.7

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	50.00	0.0000	P	86.6
2	☐	0.100					
3	☐	1.000	0.914	6771.45	0.0009	P	4.4
4	☐	50.000	49.264	366100.09	0.0491	P	1.2
5	☐	125.000	124.018	924281.39	0.1235	P	0.6
6	☐	250.000	247.986	1916338.83	0.2470	P	0.8
7	☐	500.000	504.467	3913012.07	0.5024	P	0.5
8	☐	1000.000	998.430	7721074.48	0.9944	A	0.5
9	☐			3395.05	0.0005	P	9.3

$$y = 9.9591\text{E-}004 * x + 6.6526\text{E-}006$$

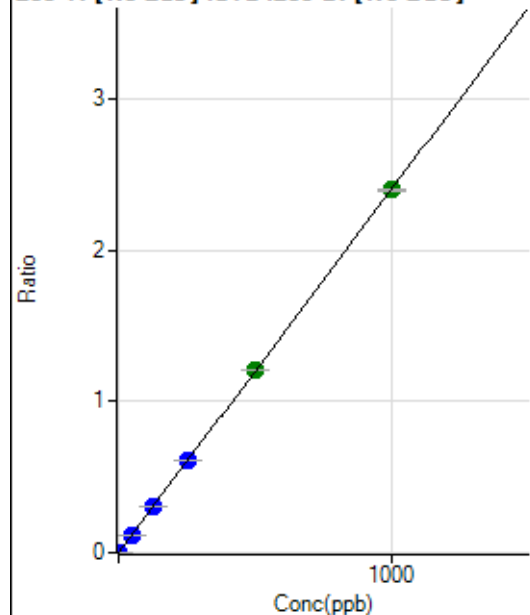
$$R = 1.0000$$

$$DL = 0.01735$$

Weight: <None>

Min Conc: 0

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	144.45	0.0000	P	12.3
2	☐	0.100					
3	☐	1.000	0.916	16391.27	0.0022	P	4.1
4	☐	50.000	49.145	881349.03	0.1181	P	0.7
5	☐	125.000	125.051	2249048.03	0.3006	P	0.2
6	☐	250.000	252.766	4713499.06	0.6075	P	0.9
7	☐	500.000	501.484	9386895.61	1.2052	A	0.2
8	☐	1000.000	998.603	18635263.27	2.3999	A	0.6
9	☐			7605.33	0.0011	P	8.3

$$y = 0.0024 * x + 1.9249\text{E-}005$$

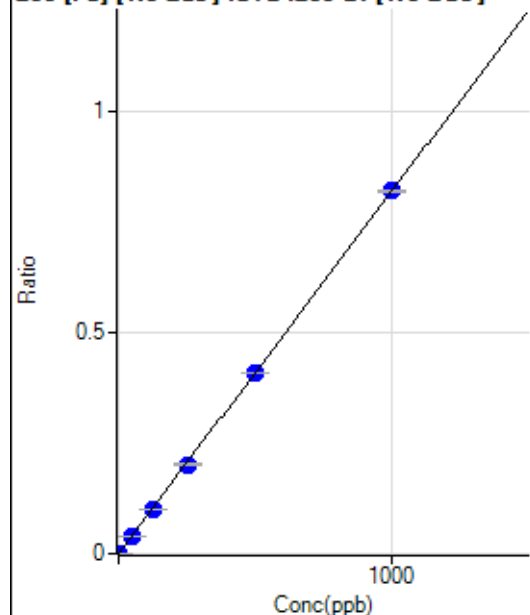
$$R = 1.0000$$

$$DL = 0.002946$$

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	451.87	0.0001	P	11.6
2	☐	0.100					
3	☐	1.000	0.918	5999.67	0.0008	P	0.5
4	☐	50.000	48.813	299121.30	0.0401	P	0.4
5	☐	125.000	123.284	757000.41	0.1012	P	0.8
6	☐	250.000	246.746	1570582.49	0.2024	P	0.2
7	☐	500.000	498.413	3184000.68	0.4088	P	0.2
8	☐	1000.000	1001.881	6380281.68	0.8217	P	0.3
9	☐			12189.25	0.0018	P	3.3

$$y = 8.2008\text{E-}004 * x + 6.0210\text{E-}005$$

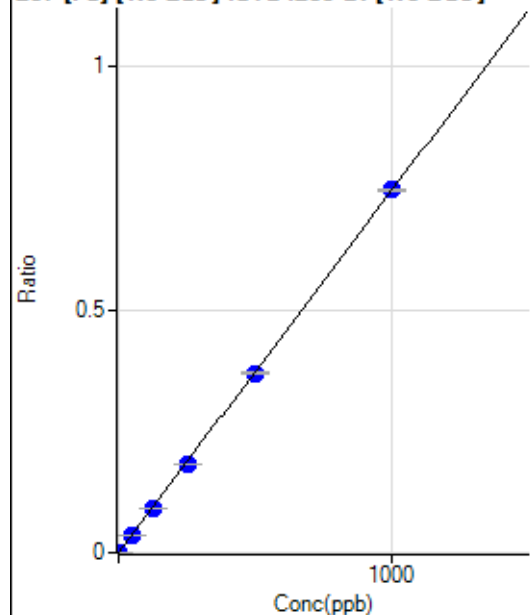
$$R = 1.0000$$

$$DL = 0.02558$$

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	337.05	0.0000	P	6.8
2	☐	0.100					
3	☐	1.000	0.930	5438.32	0.0007	P	2.9
4	☐	50.000	48.939	271876.70	0.0364	P	0.0
5	☐	125.000	122.862	684053.91	0.0914	P	0.5
6	☐	250.000	245.946	1419569.09	0.1829	P	0.1
7	☐	500.000	496.582	2876542.43	0.3693	P	0.7
8	☐	1000.000	1003.043	5792394.05	0.7460	P	0.4
9	☐			10456.23	0.0015	P	2.0

$$y = 7.4368\text{E-}004 * x + 4.4906\text{E-}005$$

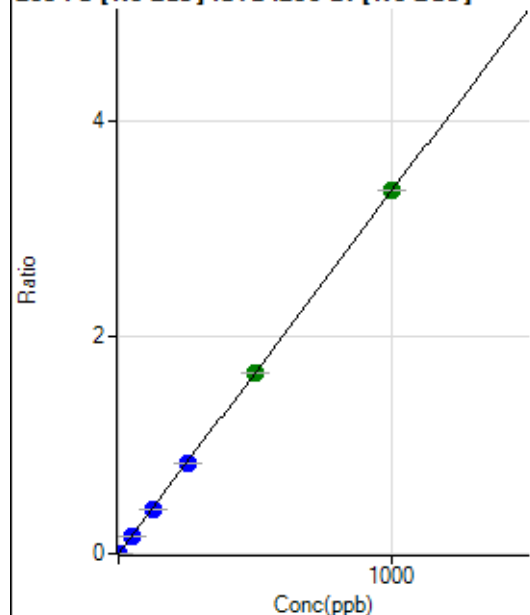
$$R = 1.0000$$

$$DL = 0.01229$$

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	1609.35	0.0002	P	5.4
2	☐	0.100					
3	☐	1.000	0.934	24652.29	0.0033	P	0.8
4	☐	50.000	48.995	1224403.21	0.1641	P	0.3
5	☐	125.000	123.488	3092663.00	0.4133	P	0.6
6	☐	250.000	247.731	6431698.04	0.8289	P	0.2
7	☐	500.000	499.200	13007343.49	1.6701	A	0.3
8	☐	1000.000	1001.207	26007119.21	3.3494	A	0.1
9	☐			48022.07	0.0069	P	1.7

$$y = 0.0033 * x + 2.1442E-004$$

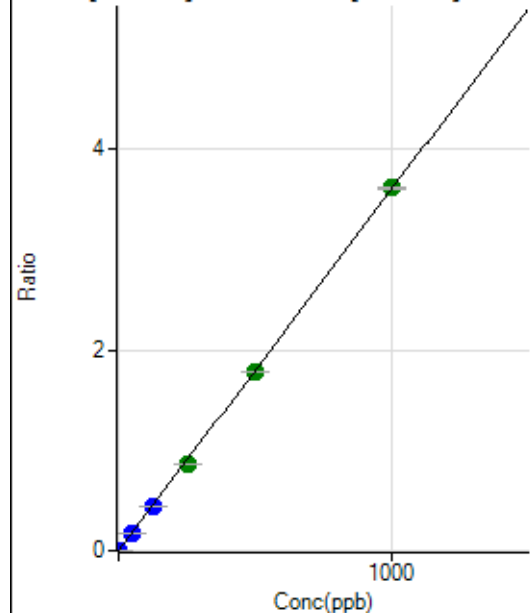
$$R = 1.0000$$

$$DL = 0.01033$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	30.56	0.0000	P	31.2
2	☐	0.100					
3	☐	1.000	0.897	23842.07	0.0032	P	1.4
4	☐	50.000	47.220	1266932.62	0.1698	P	0.4
5	☐	125.000	121.155	3260146.93	0.4357	P	0.2
6	☐	250.000	241.934	6750500.19	0.8700	A	0.2
7	☐	500.000	496.320	13900464.55	1.7847	A	0.3
8	☐	1000.000	1004.476	28046750.63	3.6121	A	0.4
9	☐			5784.89	0.0008	P	2.8

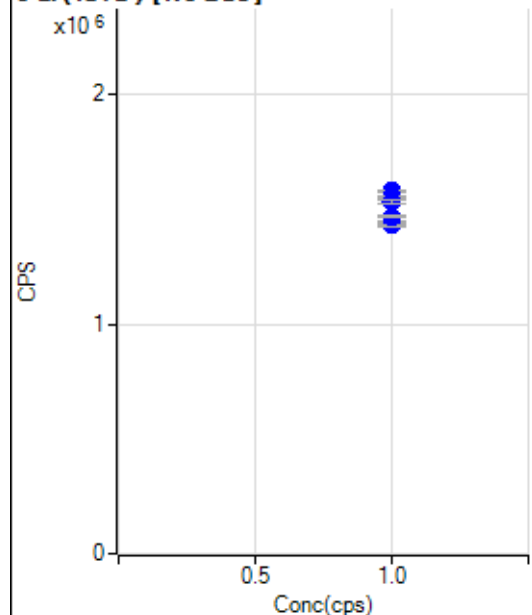
$$y = 0.0036 * x + 4.0687E-006$$

$$R = 1.0000$$

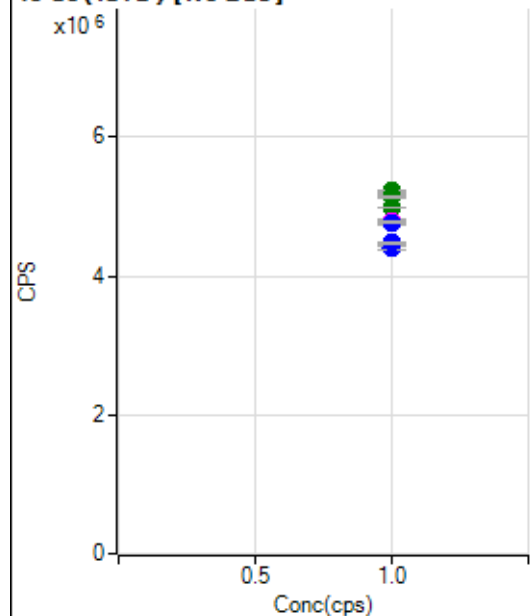
$$DL = 0.00106$$

Weight: <None>

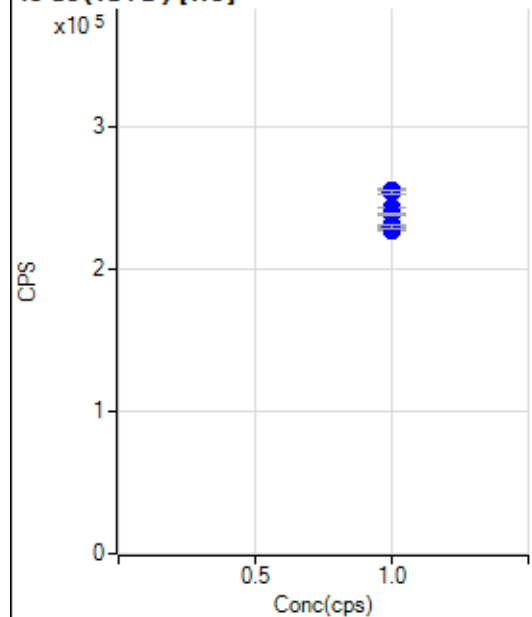
Min Conc: 0

6 Li (ISTD) [No Gas]

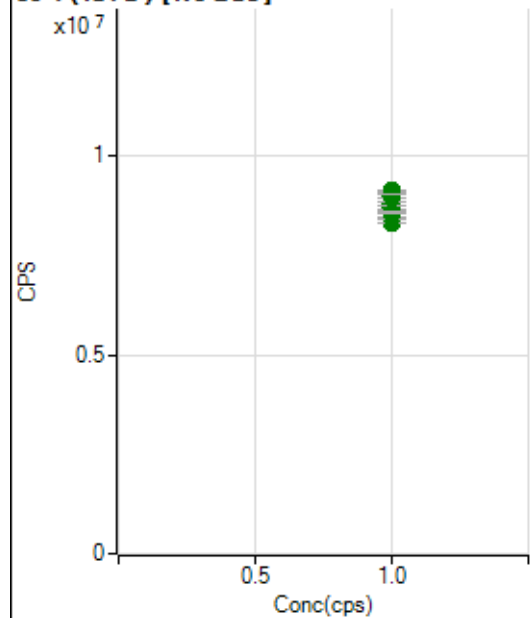
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1579421.28		P	0.2
2	☐	1.000					
3	☐	1.000		1550966.14		P	1.1
4	☐	1.000		1577014.42		P	0.4
5	☐	1.000		1555678.45		P	0.6
6	☐	1.000		1533610.62		P	1.0
7	☐	1.000		1441065.67		P	0.7
8	☐	1.000		1427764.20		P	0.3
9	☐	1.000		1466711.94		P	0.6

45 Sc (ISTD) [No Gas]

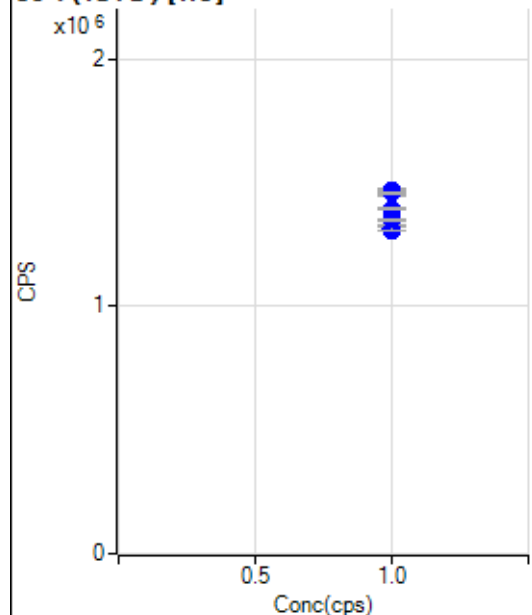
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5224528.72		A	0.4
2	☐	1.000					
3	☐	1.000		5150882.23		A	0.8
4	☐	1.000		5141768.30		A	0.3
5	☐	1.000		4975844.16		A	0.1
6	☐	1.000		4780113.13		M	1.4
7	☐	1.000		4404643.63		P	0.9
8	☐	1.000		4476504.74		P	0.3
9	☐	1.000		4774950.71		P	0.9

45 Sc (ISTD) [He]

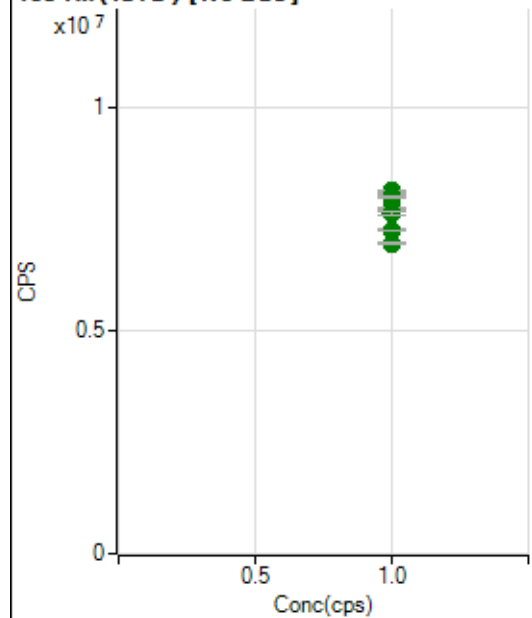
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		254521.42		P	1.9
2	☐	1.000					
3	☐	1.000		254079.80		P	1.3
4	☐	1.000		253781.40		P	1.1
5	☐	1.000		242834.11		P	0.4
6	☐	1.000		230366.81		P	0.7
7	☐	1.000		227123.50		P	0.4
8	☐	1.000		229218.02		P	1.2
9	☐	1.000		238242.52		P	0.7

89 Y (ISTD) [No Gas]

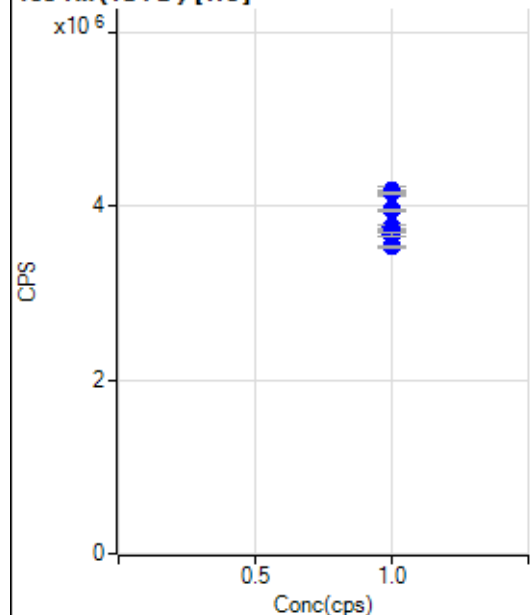
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		9117636.67		A	0.2
2	☐	1.000					
3	☐	1.000		8991170.77		A	0.7
4	☐	1.000		9041737.92		A	0.1
5	☐	1.000		8801756.47		A	0.8
6	☐	1.000		8718388.90		A	1.2
7	☐	1.000		8310634.81		A	0.5
8	☐	1.000		8445370.50		A	0.5
9	☐	1.000		8566779.25		A	0.5

89 Y(ISTD) [He]

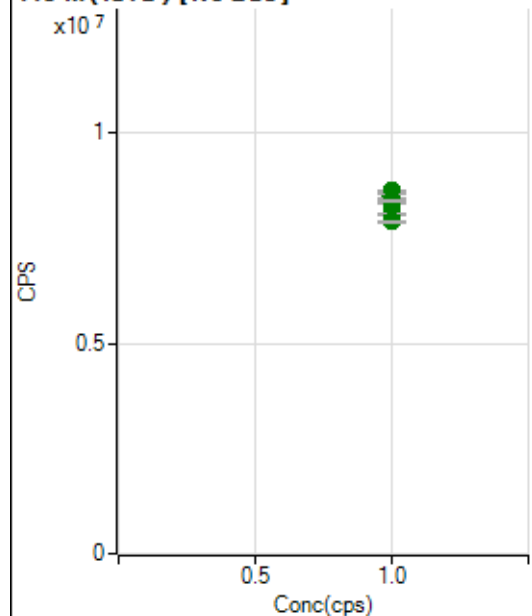
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1467661.56		P	1.9
2	☐	1.000					
3	☐	1.000		1459340.64		P	1.4
4	☐	1.000		1461152.21		P	0.7
5	☐	1.000		1395106.56		P	0.5
6	☐	1.000		1314493.75		P	1.1
7	☐	1.000		1305678.93		P	0.3
8	☐	1.000		1317507.78		P	1.4
9	☐	1.000		1350702.97		P	0.2

103 Rh(ISTD) [No Gas]

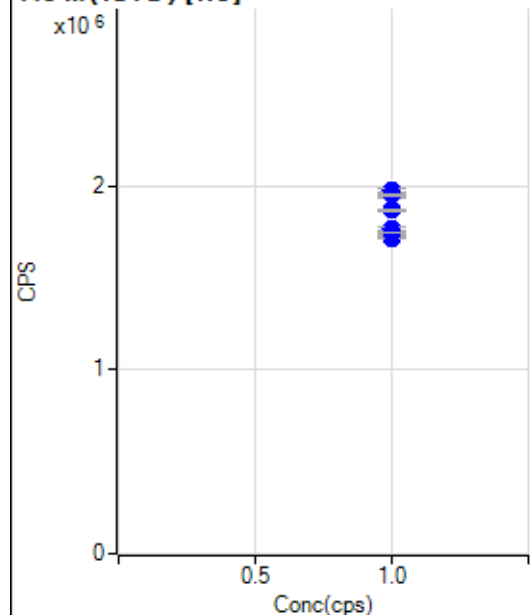
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		8136548.19		A	0.7
2	☐	1.000					
3	☐	1.000		8024802.44		A	1.0
4	☐	1.000		7990309.21		A	0.5
5	☐	1.000		7750045.23		A	0.3
6	☐	1.000		7637426.38		A	1.2
7	☐	1.000		7259070.21		A	0.3
8	☐	1.000		7239644.95		A	0.4
9	☐	1.000		6957723.85		A	0.9

103 Rh (ISTD) [He]

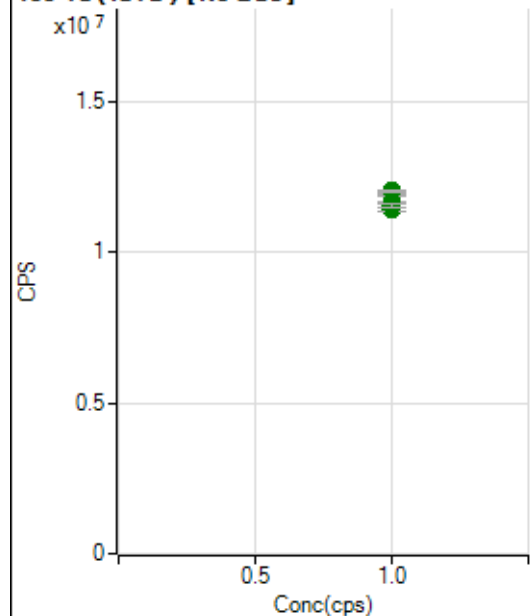
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4170023.51		P	2.5
2	☐	1.000					
3	☐	1.000		4145952.40		P	1.3
4	☐	1.000		4153231.61		P	0.5
5	☐	1.000		3948897.44		P	0.4
6	☐	1.000		3756993.42		P	0.9
7	☐	1.000		3713761.96		P	0.5
8	☐	1.000		3665230.74		P	0.9
9	☐	1.000		3525662.31		P	0.4

115 In (ISTD) [No Gas]

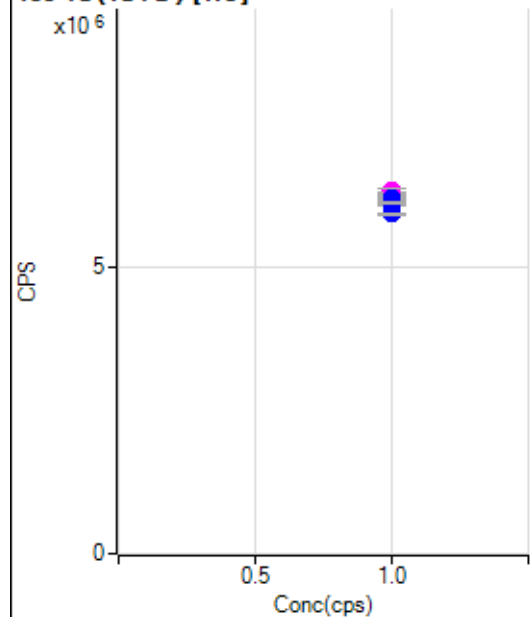
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		8619761.87		A	0.2
2	☐	1.000					
3	☐	1.000		8487719.78		A	0.9
4	☐	1.000		8531413.23		A	0.2
5	☐	1.000		8314475.91		A	0.5
6	☐	1.000		8385684.91		A	0.6
7	☐	1.000		8065972.53		A	0.7
8	☐	1.000		8070817.61		A	0.1
9	☐	1.000		7887323.37		A	0.3

115 In (ISTD) [He]

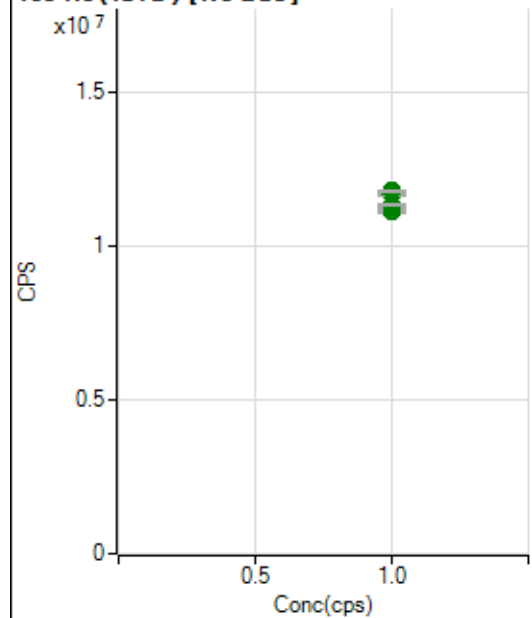
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1972013.53		P	1.9
2	☐	1.000					
3	☐	1.000		1950389.11		P	1.4
4	☐	1.000		1950047.32		P	0.7
5	☐	1.000		1866317.23		P	0.5
6	☐	1.000		1763326.62		P	1.1
7	☐	1.000		1740577.24		P	0.8
8	☐	1.000		1718317.81		P	0.6
9	☐	1.000		1743321.93		P	0.2

159 Tb (ISTD) [No Gas]

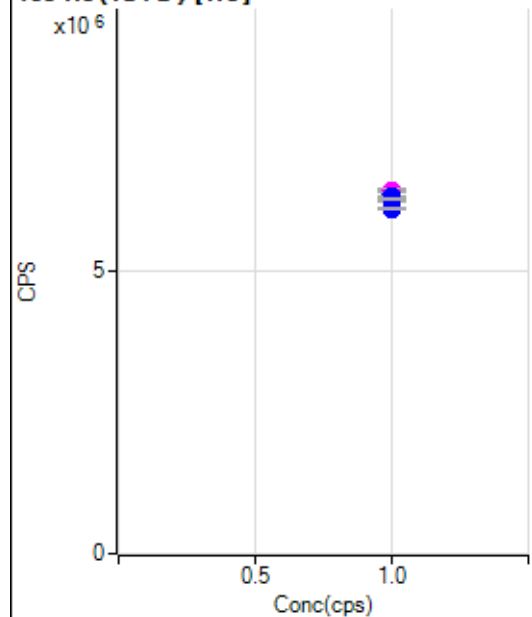
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		11596821.77		A	0.4
2	☐	1.000					
3	☐	1.000		11403417.89		A	0.9
4	☐	1.000		11628854.41		A	0.2
5	☐	1.000		11515754.55		A	1.1
6	☐	1.000		11926524.27		A	0.4
7	☐	1.000		11866880.80		A	0.5
8	☐	1.000		12030259.26		A	0.3
9	☐	1.000		11537249.97		A	1.1

159 Tb (ISTD) [He]

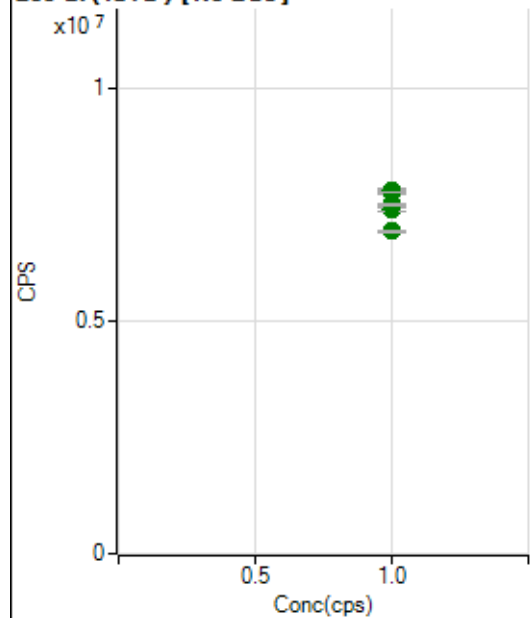
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6269616.99		M	3.4
2	☐	1.000					
3	☐	1.000		6291211.71		P	1.4
4	☐	1.000		6342988.17		M	1.8
5	☐	1.000		6229381.44		P	0.3
6	☐	1.000		6104633.31		P	0.9
7	☐	1.000		6171923.66		P	0.2
8	☐	1.000		6126773.45		P	0.5
9	☐	1.000		5939949.29		P	0.2

165 Ho (ISTD) [No Gas]

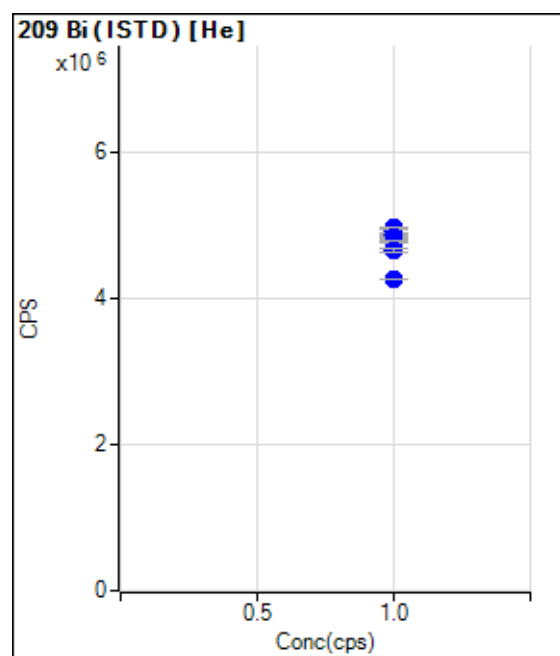
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		11309429.33		A	0.5
2	☐	1.000					
3	☐	1.000		11120872.82		A	0.3
4	☐	1.000		11228440.01		A	0.4
5	☐	1.000		11316797.48		A	1.2
6	☐	1.000		11682485.16		A	0.7
7	☐	1.000		11704382.90		A	0.7
8	☐	1.000		11812690.89		A	0.3
9	☐	1.000		11355563.97		A	0.9

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6348592.34		M	2.1
2	☐	1.000					
3	☐	1.000		6361353.03		P	1.5
4	☐	1.000		6401075.32		M	0.9
5	☐	1.000		6296194.98		P	0.4
6	☐	1.000		6228914.91		P	0.3
7	☐	1.000		6297461.29		P	0.7
8	☐	1.000		6244683.45		P	0.5
9	☐	1.000		6083177.27		P	0.3

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7506233.85		A	0.3
2	☐	1.000					
3	☐	1.000		7382031.49		A	0.8
4	☐	1.000		7461067.25		A	0.4
5	☐	1.000		7483023.01		A	0.4
6	☐	1.000		7759361.62		A	0.7
7	☐	1.000		7788559.74		A	0.9
8	☐	1.000		7764810.02		A	0.4
9	☐	1.000		6917678.30		A	1.0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4902674.93		P	2.1
2	☐	1.000					
3	☐	1.000		4859193.82		P	1.4
4	☐	1.000		4956530.76		P	0.5
5	☐	1.000		4825039.93		P	0.4
6	☐	1.000		4767590.45		P	0.2
7	☐	1.000		4777986.35		P	0.7
8	☐	1.000		4645237.47		P	0.8
9	☐	1.000		4255606.64		P	0.1

US EPA Tune Check Sample Report

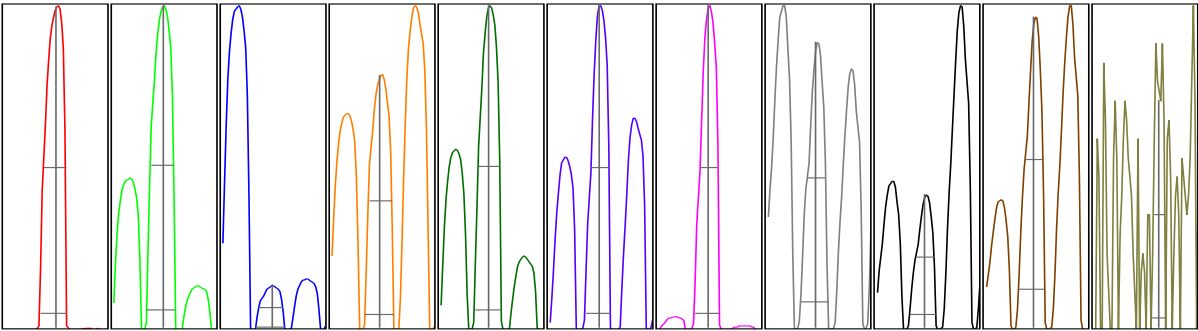
Batch Folder D:\ICP-MS Data\P7052418-MS.b
Report Comment
Instrument Name G8403A JP14410463

[No Gas]

Mass	Count (Mean)	RSD% (Actual)	RSD% (Required)	RSD% (Flag)
9	5941	0.55	5.00	
24	84642	0.79	5.00	
25	11431	1.04	5.00	
26	13239	0.69	5.00	
59	63371	0.80	5.00	
113	10151	0.68	5.00	
115	171546	0.80	5.00	
206	25912	1.21	5.00	
207	24209	1.04	5.00	
208	55949	1.28	5.00	
220	0	23.90		

	Replicate 1	Replicate 2	Replicate 3	Replicate 4	Replicate 5
Mass	Count	Count	Count	Count	Count
9	5926	5892	5947	5969	5970
24	83635	84281	85022	85104	85169
25	11262	11402	11420	11482	11587
26	13135	13204	13246	13226	13384
59	62652	63211	63376	63585	64031
113	10122	10077	10151	10141	10263
115	169517	171526	171081	172708	172901
206	25513	25810	25811	26089	26339
207	23852	24067	24248	24407	24469
208	55068	55591	55828	56319	56939
220	0	0	0	0	1

Integration Time [sec] = 0.1



Mass	Peak Height	Axis (Actual)	Axis (Required)	Axis (Flag)	Width-X% (Actual)	Width-X% (Required)	Width- X% (Flag)
9	9642	9.05	8.9 - 9.1		0.785	0.900	
24	131601	24.00	23.9 - 24.1		0.834	0.900	
25	17552	25.00	24.9 - 25.1		0.835	0.900	
26	20605	25.95	25.9 - 26.1		0.833	0.900	
59	106462	58.95	58.9 - 59.1		0.786	0.900	
113	18847	113.00	112.9 - 113.1		0.739	0.900	
115	320886	115.00	114.9 - 115.1		0.734	0.900	
206	48301	205.95	205.9 - 206.1		0.789	0.900	
207	43837	206.95	206.9 - 207.1		0.757	0.900	
208	105539	207.95	207.9 - 208.1		0.759	0.900	
220	1	220.40	-		0.390		

X% = 5 Integration Time [sec] = 0.1 Acquisition Time [sec] = 268 Y Axis = Linear

Tune Parameters

Plasma Paramters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
RF Power	1600	W	Carrier Gas	0.80	L/min	S/C Temp		2 °C
RF Matching	1.80	V	Option Gas	0.0	%	Gas Switch		Dilution Gas
Smpl Depth	9.0	mm	Nebulizer Pump	0.10	rpm	Makeup/Dilution Gas		0.37 L/min

Lenses Parameters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
Extract 1	0.0	V	Omega Lens	10.7	V	Deflect	15.4	V
Extract 2	-180.0	V	Cell Entrance	-30	V	Plate Bias	-35	V
Omega Bias	-80	V	Cell Exit	-50	V			

Cell Parameters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
Use Gas	No		OctP Bias	-8.0	V	Energy Discrimination		5.0 V
He Flow	0.0	mL/min	OctP RF	190	V			

[He]

Mass	Count (Mean)	RSD% (Actual)	RSD% (Required)
59	17578	1.33	
89	49098	1.37	
205	18496	1.42	

	Replicate 1	Replicate 2	Replicate 3	Replicate 4	Replicate 5
Mass	Count	Count	Count	Count	Count
59	17967	17476	17468	17367	17611
89	50182	48688	48954	48446	49220
205	18924	18500	18360	18225	18473

Integration Time [sec] = 0.1

Tune Parameters

Plasma Paramters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
RF Power	1600	W	Carrier Gas	0.80	L/min	S/C Temp		2 °C
RF Matching	1.80	V	Option Gas	0.0	%	Gas Switch		Dilution Gas
Smpl Depth	9.0	mm	Nebulizer Pump	0.10	rpm	Makeup/Dilution Gas		0.37 L/min

Lenses Parameters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
Extract 1	0.0	V	Omega Lens	9.9	V	Deflect	3.2	V
Extract 2	-140.0	V	Cell Entrance	-40	V	Plate Bias	-60	V
Omega Bias	-70	V	Cell Exit	-60	V			

Cell Parameters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
Use Gas	Yes		OctP Bias	-18.0	V	Energy Discrimination		5.0 V
He Flow	4.1	mL/min	OctP RF	200	V			