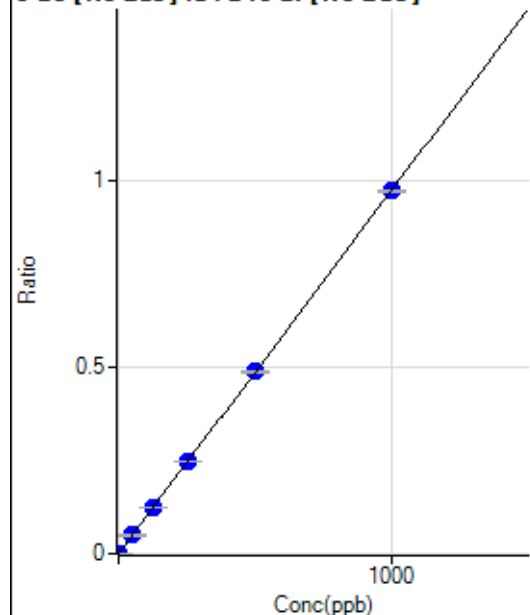


Batch Folder: D:\Agilent\ICPMH\1\DATA\P8030120-MS.b\
Analysis File: P8030120-MS.batch.bin
DA Date-Time: 3/2/2020 1:18:52 AM
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	006CALB.d	S00	3/1/2020 12:54:32 PM
2	007CALS.d	S02	3/1/2020 12:57:39 PM
3	008CALS.d	S03	3/1/2020 1:00:45 PM
4	009CALS.d	S04	3/1/2020 1:03:52 PM
5	010CALS.d	S05	3/1/2020 1:06:55 PM
6	011CALS.d	S06	3/1/2020 1:09:55 PM
7	012CALS.d	S07	3/1/2020 1:12:53 PM
8	013CALS.d	S08	3/1/2020 1:15:54 PM

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	5.33	0.0000	P	26.5
2	☐	1.000	1.082	618.56	0.0011	P	5.3
3	☐	50.000	50.298	31412.35	0.0489	P	0.7
4	☐	125.000	126.124	79086.35	0.1227	P	0.2
5	☐	250.000	251.781	159283.45	0.2449	P	0.1
6	☐	500.000	501.184	317026.68	0.4875	P	0.4
7	☐	1000.000	998.808	661815.35	0.9715	P	0.4
8	☐			82.65	0.0001	P	16.7

$$y = 9.7268\text{E-}004 * x + 7.6925\text{E-}006$$

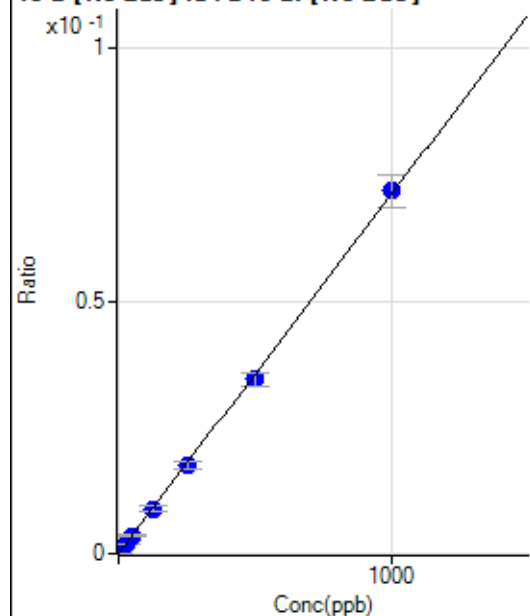
$$R = 1.0000$$

$$DL = 0.006282$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	33.99	0.0000	P	35.7
2	☐	25.000	24.767	1057.83	0.0018	P	8.6
3	☐	50.000	48.459	2245.07	0.0035	P	11.2
4	☐	125.000	124.804	5752.01	0.0089	P	10.5
5	☐	250.000	246.354	11430.20	0.0176	P	8.4
6	☐	500.000	483.970	22420.61	0.0345	P	8.5
7	☐	1000.000	1009.034	48928.62	0.0718	P	8.9
8	☐			8548.15	0.0136	P	11.2

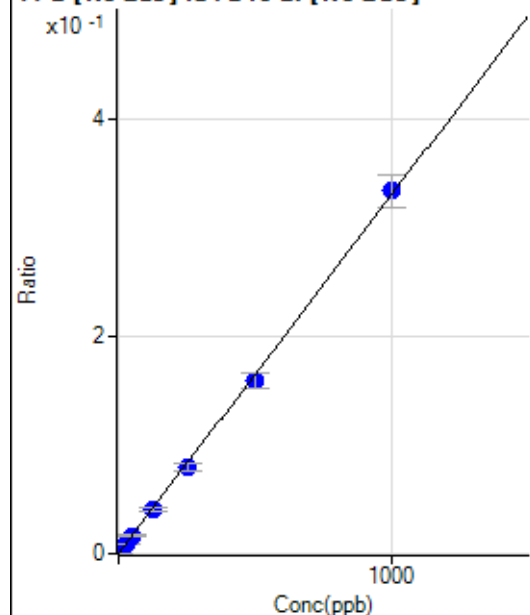
$$y = 7.1143\text{E-}005 * x + 4.9085\text{E-}005$$

$$R = 0.9998$$

$$DL = 0.7396$$

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	138.64	0.0002	P	10.4
2	☐	25.000	24.416	4818.51	0.0082	P	6.5
3	☐	50.000	49.314	10565.06	0.0165	P	8.4
4	☐	125.000	121.193	25869.60	0.0402	P	8.7
5	☐	250.000	241.532	51912.89	0.0798	P	8.5
6	☐	500.000	482.929	103647.63	0.1594	P	9.0
7	☐	1000.000	1011.177	227183.62	0.3335	P	9.2
8	☐			39022.84	0.0621	P	12.3

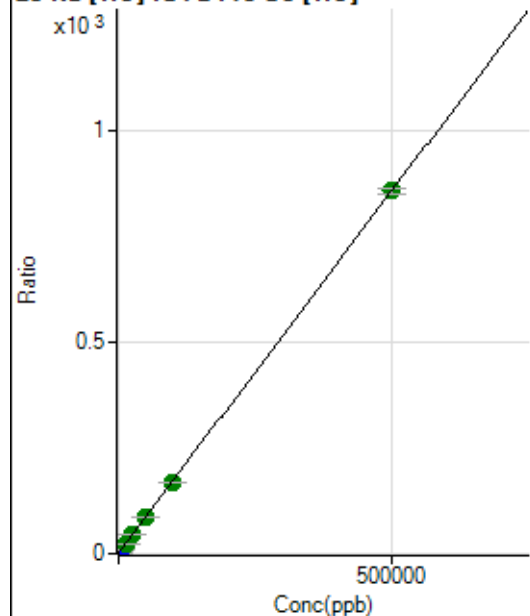
$$y = 3.2966\text{E-}004 * x + 1.9839\text{E-}004$$

$$R = 0.9997$$

$$DL = 0.1884$$

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	81228.43	1.4996	P	1.5
2	☐	500.000	574.964	131236.24	2.4819	P	1.7
3	☐	5000.000	5111.356	563176.50	10.2322	P	0.1
4	☐	12500.000	12555.446	1274087.10	22.9502	A	0.7
5	☐	25000.000	25506.989	2462360.62	45.0775	A	1.8
6	☐	50000.000	49789.008	4858123.89	86.5626	A	1.0
7	☐	100000.00	97724.361	9869629.30	168.4587	A	0.8
8	☐	500000.00	500448.30	46738257.29	856.5002	A	1.3

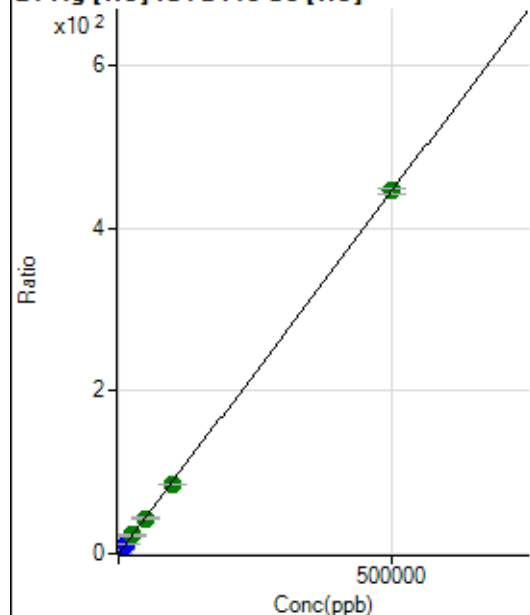
$$y = 0.0017 * x + 1.4996$$

$$R = 1.0000$$

$$DL = 39.78$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	891.72	0.0165	P	8.6
2	☐	500.000	553.361	26961.51	0.5098	P	0.8
3	☐	5000.000	5015.862	247034.17	4.4885	P	0.5
4	☐	12500.000	12474.445	618394.38	11.1384	P	0.2
5	☐	25000.000	25297.116	1232972.49	22.5709	A	1.4
6	☐	50000.000	49027.258	2454177.83	43.7283	A	0.9
7	☐	100000.00	96436.300	5038578.11	85.9973	A	0.4
8	☐	500000.00	500795.58	24365787.87	446.5168	A	1.4

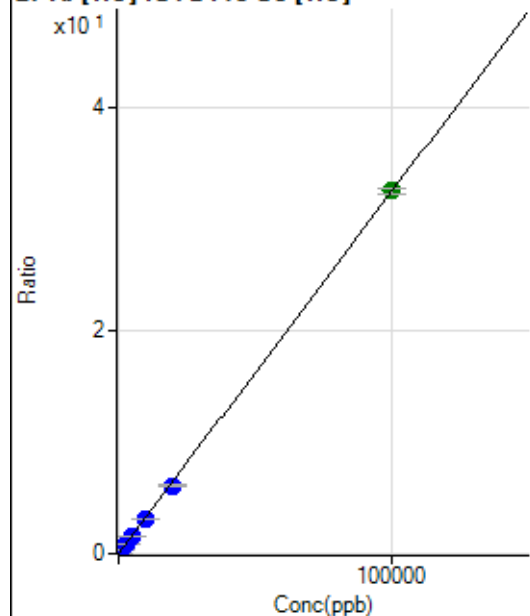
$$y = 8.9158\text{E-}004 * x + 0.0165$$

$$R = 1.0000$$

$$DL = 4.774$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	334.45	0.0062	P	11.1
2	☐	20.000	18.121	637.80	0.0121	P	6.4
3	☐	1000.000	961.048	17517.32	0.3183	P	0.6
4	☐	2500.000	2422.317	44014.17	0.7928	P	0.6
5	☐	5000.000	4830.880	86033.33	1.5750	P	1.5
6	☐	10000.000	9597.200	175258.43	3.1228	P	1.4
7	☐	20000.000	18816.585	358399.85	6.1168	P	1.1
8	☐	100000.00	100287.75	1777535.29	32.5744	A	1.5

$$y = 3.2475\text{E-}004 * x + 0.0062$$

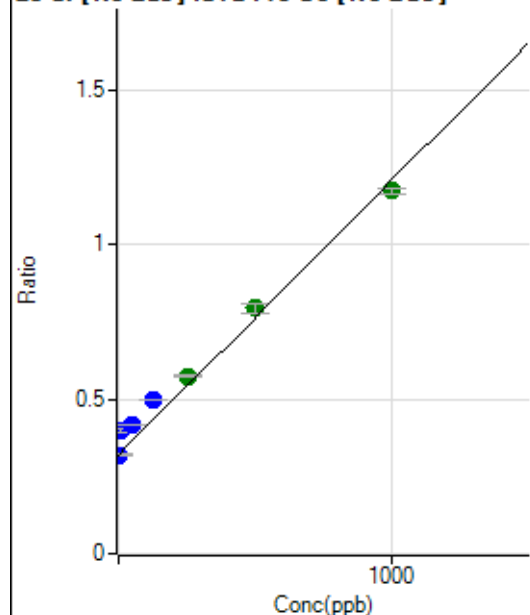
$$R = 0.9999$$

$$DL = 6.356$$

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	557978.25	0.3207	P	2.9
2	☐	10.000	89.048	576643.01	0.3998	P	3.4
3	☐	50.000	107.777	660571.31	0.4165	P	0.8
4	☐	125.000	200.978	808049.15	0.4994	P	0.4
5	☐	250.000	285.822	936747.01	0.5748	A	1.3
6	☐	500.000	533.185	1306491.01	0.7947	A	3.5
7	☐	1000.000	961.276	2032811.55	1.1754	A	1.5
8	☐			725879.17	0.4567	P	1.0

$$y = 8.8918\text{E-}004 * x + 0.3207$$

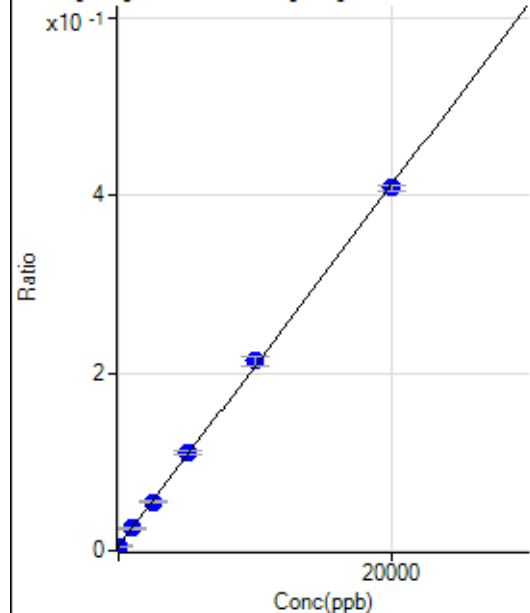
$$R = 0.9962$$

$$DL = 31.84$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	3.409	280.57	0.0052	P	21.8
2	☐	0.000	-3.409	266.68	0.0050	P	6.6
3	☐	1000.000	992.265	1388.99	0.0253	P	10.1
4	☐	2500.000	2452.984	3047.63	0.0549	P	6.8
5	☐	5000.000	5176.612	6020.84	0.1102	P	4.2
6	☐	10000.000	10240.974	11952.50	0.2130	P	5.1
7	☐	20000.000	19841.624	23903.45	0.4080	P	1.7
8	☐			216.67	0.0040	P	4.9

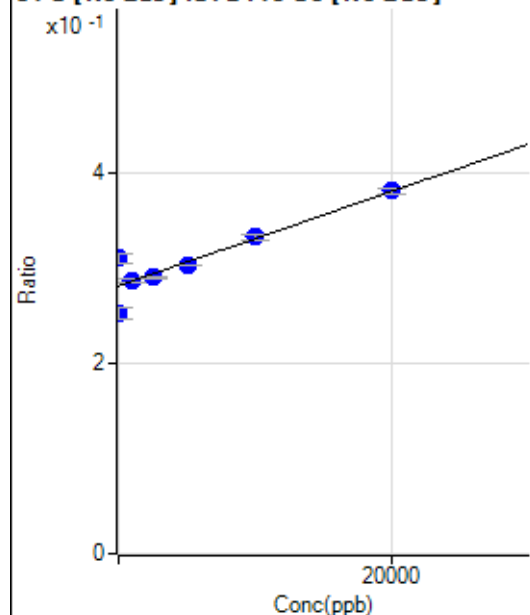
$$y = 2.0303\text{E-}005 * x + 0.0051$$

$$R = 0.9998$$

$$DL = 108.1$$

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	-5869.113	438214.69	0.2519	P	4.3
2	☐	0.000	5869.113	447000.29	0.3099	P	3.3
3	☐	1000.000	1158.227	454636.60	0.2866	P	1.1
4	☐	2500.000	1811.498	469070.42	0.2899	P	0.6
5	☐	5000.000	4285.785	492375.72	0.3021	P	0.5
6	☐	10000.000	10340.973	545968.61	0.3320	P	1.6
7	☐	20000.000	20086.218	657452.26	0.3802	P	1.9
8	☐			430554.64	0.2709	P	0.9

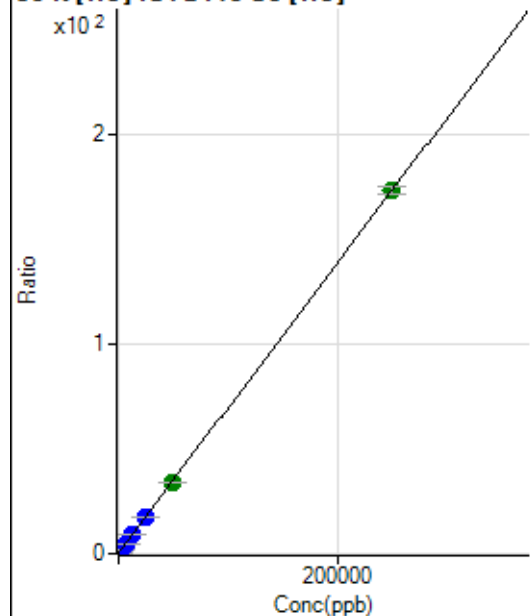
$$y = 4.9438E-006 * x + 0.2809$$

$$R = 0.9083$$

$$DL = 6423$$

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	20019.88	0.3696	P	1.7
2	☐	500.000	543.304	39370.95	0.7445	P	1.3
3	☐	2500.000	2502.161	115386.49	2.0965	P	0.4
4	☐	6250.000	6267.065	260654.05	4.6950	P	0.3
5	☐	12500.000	12756.218	501119.42	9.1736	P	1.1
6	☐	25000.000	24993.316	988859.73	17.6194	P	1.1
7	☐	50000.000	48632.799	1988205.10	33.9349	A	0.9
8	☐	250000.00	250260.76	9445139.27	173.0942	A	2.0

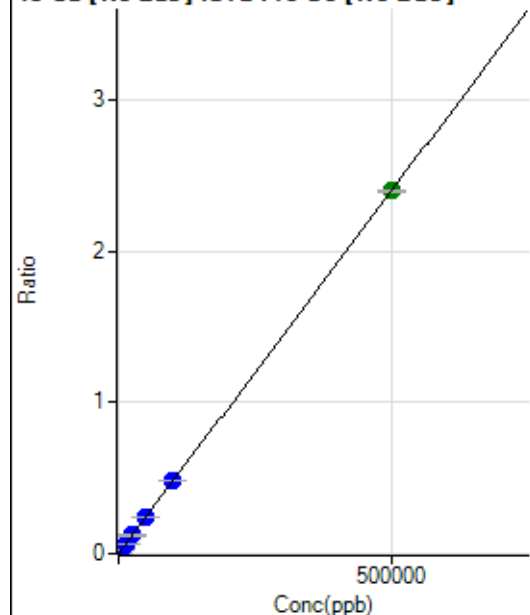
$$y = 6.9018E-004 * x + 0.3696$$

$$R = 1.0000$$

$$DL = 26.75$$

Weight: <None>

Min Conc: 0

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

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	513.91	0.0003	P	9.5
2	☐	500.000	557.401	4289.64	0.0030	P	3.4
3	☐	5000.000	5119.176	39488.24	0.0249	P	0.8
4	☐	12500.000	12486.900	97585.56	0.0603	P	1.1
5	☐	25000.000	25205.046	197890.19	0.1214	P	1.6
6	☐	50000.000	49780.539	393886.44	0.2395	P	0.8
7	☐	100000.00	100281.32	833881.01	0.4822	P	1.3
8	☐	500000.00	499954.50	3818995.88	2.4030	A	0.6

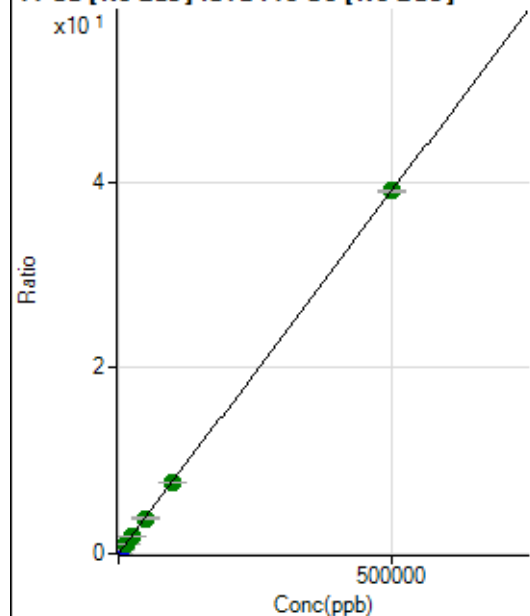
$$y = 4.8058\text{E-}006 * x + 2.9543\text{E-}004$$

$$R = 1.0000$$

$$DL = 17.57$$

Weight: <None>

Min Conc: 0

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

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	32259.12	0.0185	P	3.5
2	☐	500.000	596.364	93850.37	0.0651	P	3.9
3	☐	5000.000	5096.953	660219.27	0.4163	P	0.8
4	☐	12500.000	12417.038	1597892.76	0.9875	A	1.2
5	☐	25000.000	24650.177	3165002.80	1.9420	A	0.8
6	☐	50000.000	48555.202	6260473.49	3.8073	A	1.4
7	☐	100000.00	98755.162	13358758.37	7.7245	A	0.5
8	☐	500000.00	500411.94	62084463.19	39.0660	A	0.6

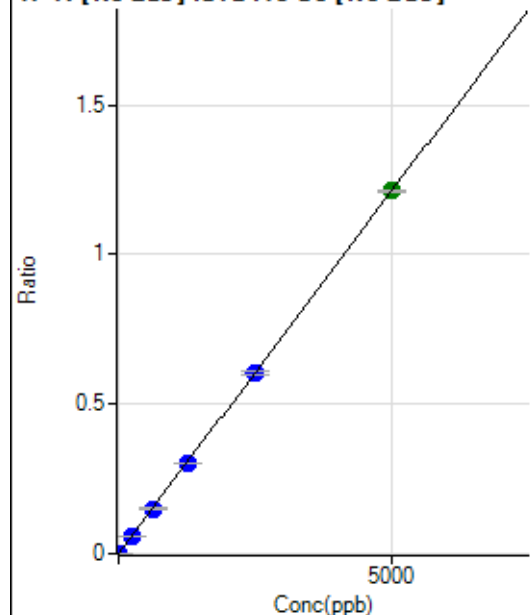
$$y = 7.8031\text{E-}005 * x + 0.0185$$

$$R = 1.0000$$

$$DL = 25.23$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	577.80	0.0003	P	5.5
2	☐	5.000	5.851	2522.52	0.0017	P	5.8
3	☐	250.000	248.291	95928.23	0.0605	P	1.4
4	☐	625.000	621.024	243991.20	0.1508	P	0.9
5	☐	1250.000	1246.343	492618.71	0.3023	P	1.1
6	☐	2500.000	2491.758	993099.61	0.6040	P	1.7
7	☐	5000.000	5005.617	2097783.92	1.2130	A	0.8
8	☐			725.04	0.0005	P	11.3

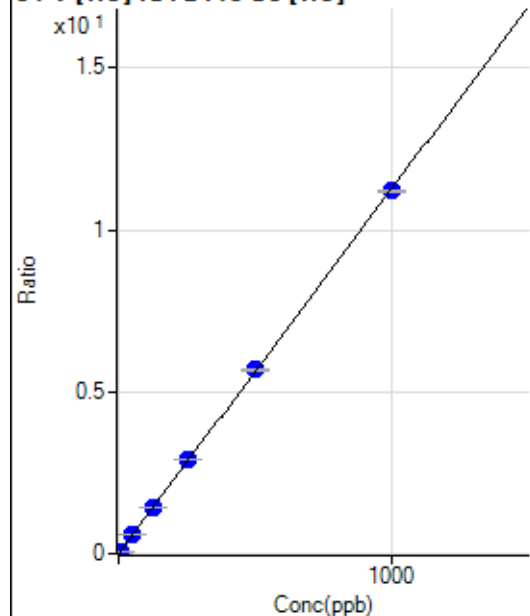
$$y = 2.4226E-004 * x + 3.3143E-004$$

$$R = 1.0000$$

$$DL = 0.2244$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	6.67	0.0001	P	50.2
2	☐	5.000	5.903	3520.46	0.0666	P	2.8
3	☐	50.000	51.443	31882.20	0.5793	P	2.1
4	☐	125.000	126.101	78825.47	1.4199	P	1.1
5	☐	250.000	257.706	158511.65	2.9017	P	0.9
6	☐	500.000	505.363	319350.65	5.6902	P	1.1
7	☐	1000.000	995.178	656517.92	11.2052	P	0.4
8	☐			240.01	0.0044	P	5.3

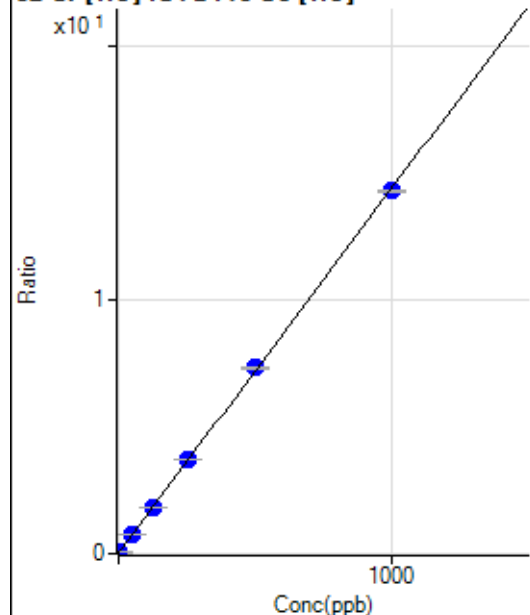
$$y = 0.0113 * x + 1.2319E-004$$

$$R = 0.9999$$

$$DL = 0.01646$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	1114.50	0.0206	P	6.6
2	☐	2.000	2.261	2805.86	0.0531	P	2.6
3	☐	50.000	51.000	41454.29	0.7533	P	1.6
4	☐	125.000	126.532	102050.59	1.8384	P	1.9
5	☐	250.000	256.681	202565.79	3.7082	P	0.9
6	☐	500.000	508.524	411180.60	7.3263	P	0.7
7	☐	1000.000	993.826	837744.52	14.2984	P	0.4
8	☐			22787.13	0.4176	P	1.7

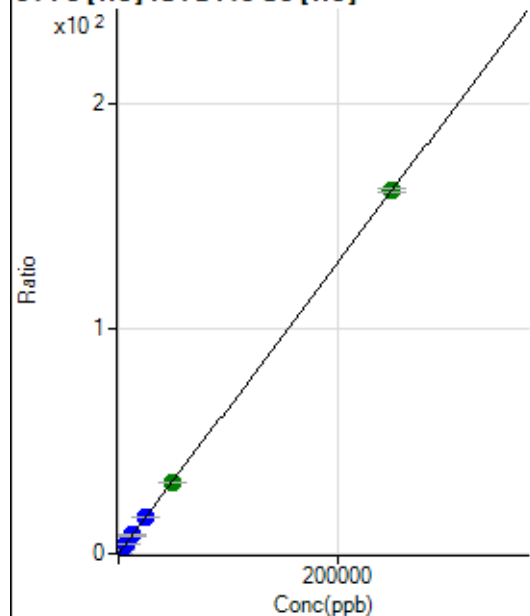
$$y = 0.0144 * x + 0.0206$$

$$R = 0.9999$$

$$DL = 0.2838$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	661.14	0.0122	P	7.5
2	☐	50.000	51.541	2403.95	0.0455	P	5.6
3	☐	2500.000	2465.762	88252.35	1.6035	P	0.4
4	☐	6250.000	6161.167	221419.18	3.9883	P	1.2
5	☐	12500.000	12583.249	444276.11	8.1328	P	0.6
6	☐	25000.000	24922.807	903368.81	16.0960	P	1.0
7	☐	50000.000	49416.302	1869188.47	31.9028	A	1.0
8	☐	250000.00	250122.85	8809126.30	161.4279	A	1.1

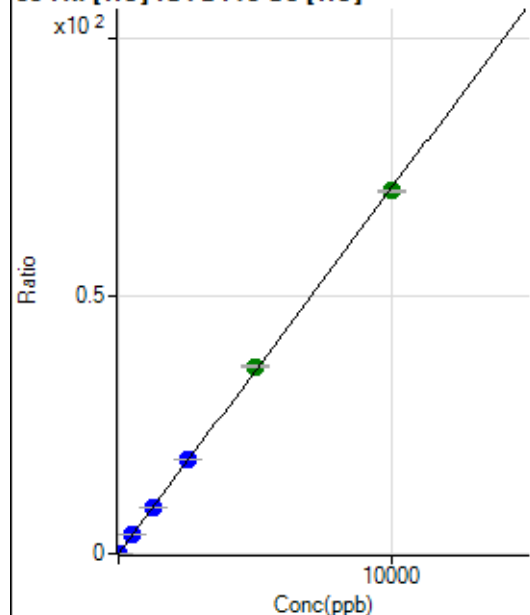
$$y = 6.4535E-004 * x + 0.0122$$

$$R = 1.0000$$

$$DL = 4.237$$

Weight: <None>

Min Conc: 0

⁵⁵Mn [He] ISTD:45 Sc [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	72.22	0.0013	P	22.7
2	☐	1.000	1.126	493.35	0.0093	P	1.9
3	☐	500.000	508.535	198739.35	3.6112	P	1.1
4	☐	1250.000	1257.834	495739.30	8.9302	P	1.3
5	☐	2500.000	2563.499	994146.19	18.1985	P	0.7
6	☐	5000.000	5117.844	2039041.10	36.3307	A	0.9
7	☐	10000.000	9923.797	4127455.01	70.4461	A	0.2
8	☐			3672.74	0.0673	P	1.9

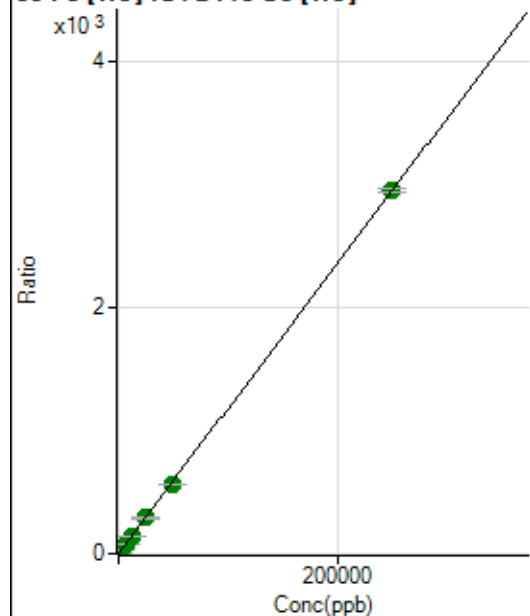
$$y = 0.0071 * x + 0.0013$$

$$R = 0.9999$$

$$DL = 0.1277$$

Weight: <None>

Min Conc: 0

⁵⁶Fe [He] ISTD:45 Sc [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	6983.31	0.1289	P	5.6
2	☐	50.000	50.834	38453.77	0.7272	P	0.7
3	☐	2500.000	2487.661	1618267.01	29.4041	A	0.9
4	☐	6250.000	6125.096	4008540.14	72.2100	A	1.3
5	☐	12500.000	12315.962	7924941.79	145.0651	A	0.9
6	☐	25000.000	24552.675	16223366.91	289.0687	A	1.2
7	☐	50000.000	47934.708	33057892.40	564.2322	A	0.5
8	☐	250000.00	250470.23	160853622.1	2,947.702	A	1.2

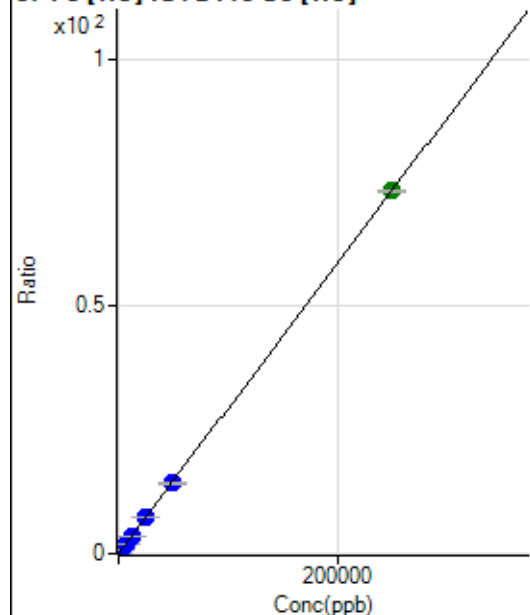
$$y = 0.0118 * x + 0.1289$$

$$R = 1.0000$$

$$DL = 1.846$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	200.01	0.0037	P	14.5
2	☐	50.000	43.723	872.26	0.0165	P	0.5
3	☐	2500.000	2500.084	40487.20	0.7357	P	1.7
4	☐	6250.000	6167.327	100442.18	1.8094	P	1.3
5	☐	12500.000	12518.778	200438.93	3.6689	P	0.4
6	☐	25000.000	24737.499	406697.25	7.2463	P	0.6
7	☐	50000.000	48478.543	831792.91	14.1972	P	0.9
8	☐	250000.00	250331.67	3999981.75	73.2957	A	0.3

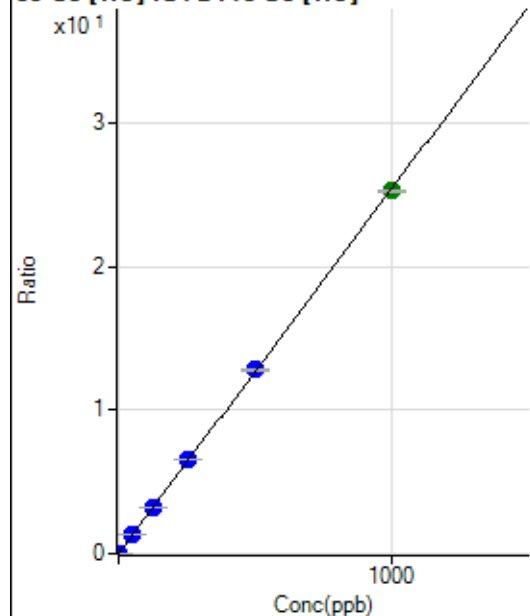
$$y = 2.9278\text{E-}004 * x + 0.0037$$

$$R = 1.0000$$

$$DL = 5.493$$

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	27.78	0.0005	P	42.1
2	☐	1.000	1.126	1540.10	0.0291	P	6.4
3	☐	50.000	51.152	71498.30	1.2992	P	1.6
4	☐	125.000	127.443	179648.80	3.2362	P	1.3
5	☐	250.000	258.090	357982.46	6.5532	P	1.0
6	☐	500.000	505.154	719829.33	12.8260	P	1.1
7	☐	1000.000	995.037	1480218.40	25.2638	A	0.4
8	☐			2518.03	0.0462	P	5.1

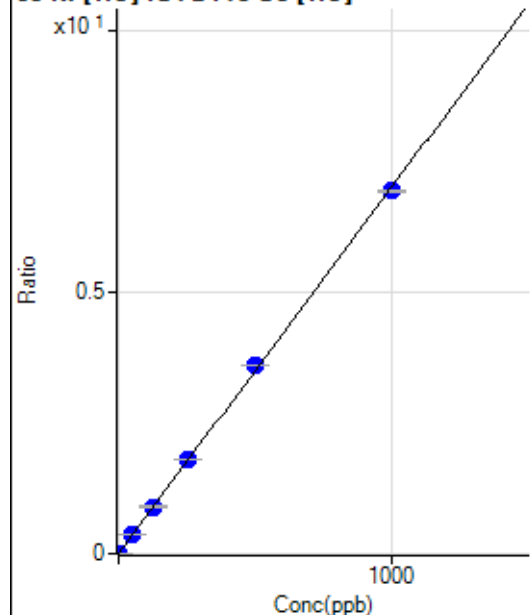
$$y = 0.0254 * x + 5.1268\text{E-}004$$

$$R = 0.9999$$

$$DL = 0.02552$$

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	63.33	0.0012	P	24.3
2	☐	1.000	1.144	485.57	0.0092	P	4.4
3	☐	50.000	51.375	19868.41	0.3611	P	3.9
4	☐	125.000	127.533	49653.99	0.8946	P	3.0
5	☐	250.000	258.283	98907.14	1.8106	P	0.7
6	☐	500.000	513.960	202144.02	3.6017	P	0.6
7	☐	1000.000	990.564	406633.54	6.9405	P	0.8
8	☐			10375.00	0.1901	P	2.3

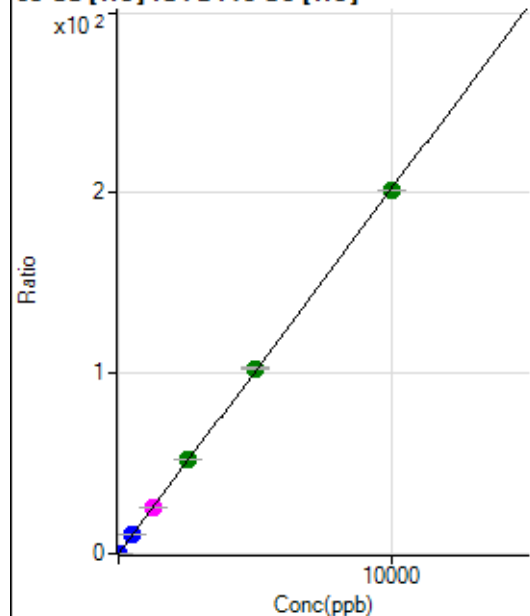
$$y = 0.0070 * x + 0.0012$$

$$R = 0.9998$$

$$DL = 0.1217$$

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	263.34	0.0049	P	3.4
2	☐	2.000	2.121	2525.80	0.0478	P	3.5
3	☐	500.000	516.187	574934.95	10.4476	P	1.9
4	☐	1250.000	1268.663	1425006.59	25.6706	M	1.8
5	☐	2500.000	2589.808	2862321.90	52.3981	A	1.0
6	☐	5000.000	5063.069	5748836.09	102.4335	A	1.0
7	☐	10000.000	9942.871	11785576.91	201.1545	A	0.1
8	☐			7067.39	0.1295	P	1.6

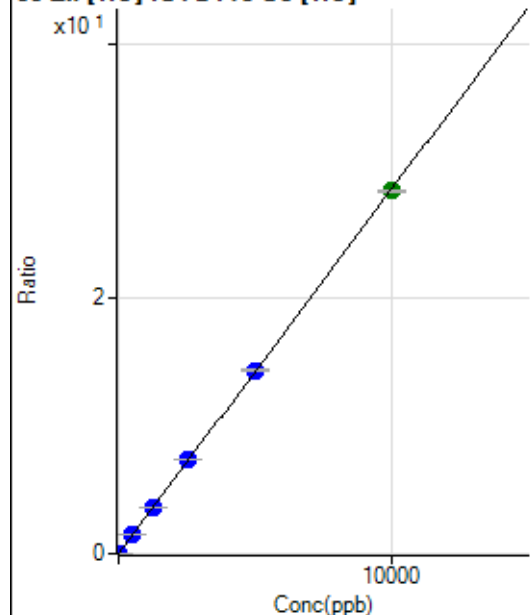
$$y = 0.0202 * x + 0.0049$$

$$R = 0.9999$$

$$DL = 0.02446$$

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	76.67	0.0014	P	11.1
2	☐	2.000	2.306	423.34	0.0080	P	2.6
3	☐	500.000	513.070	80763.73	1.4676	P	1.6
4	☐	1250.000	1258.687	199746.09	3.5983	P	1.5
5	☐	2500.000	2580.739	402924.79	7.3762	P	1.3
6	☐	5000.000	5040.179	808389.02	14.4043	P	1.4
7	☐	10000.000	9957.986	1667302.08	28.4575	A	0.3
8	☐			5256.58	0.0964	P	5.9

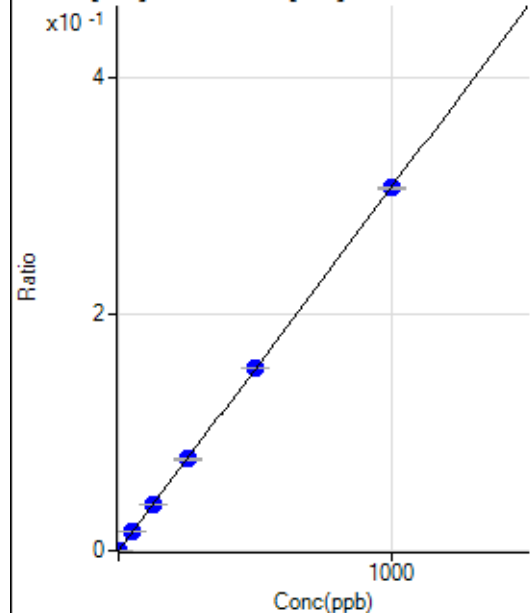
$$y = 0.0029 * x + 0.0014$$

$$R = 1.0000$$

$$DL = 0.1642$$

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	2.93	0.0000	P	73.0
2	☐	1.000	1.197	139.39	0.0004	P	2.0
3	☐	50.000	50.739	6007.72	0.0156	P	1.2
4	☐	125.000	127.192	15078.83	0.0392	P	1.8
5	☐	250.000	251.362	30073.07	0.0774	P	0.7
6	☐	500.000	502.460	61107.88	0.1547	P	0.5
7	☐	1000.000	998.118	125404.38	0.3072	P	0.6
8	☐			268.51	0.0007	P	5.5

$$y = 3.0782E-004 * x + 7.8637E-006$$

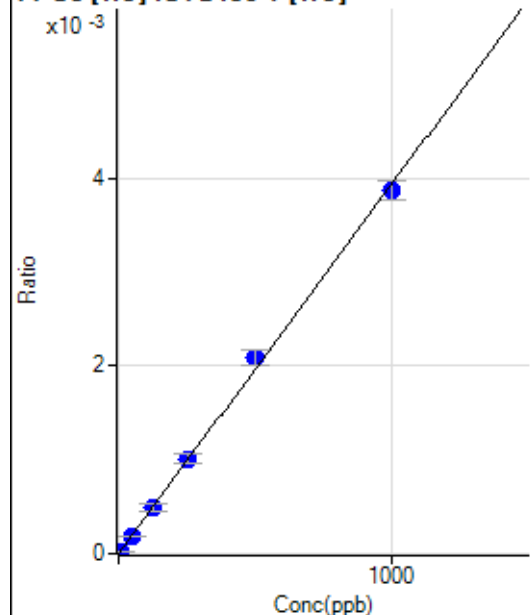
$$R = 1.0000$$

$$DL = 0.05595$$

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	3.824	5.56	0.0000	P	35.3
3	☐	50.000	45.581	68.89	0.0002	P	2.8
4	☐	125.000	124.111	187.78	0.0005	P	17.3
5	☐	250.000	257.531	393.34	0.0010	P	8.8
6	☐	500.000	531.616	825.59	0.0021	P	8.2
7	☐	1000.000	982.647	1576.77	0.0039	P	5.3
8	☐			3.33	0.0000	P	0.6

$$y = 3.9311\text{E-}006 * x + 0.0000\text{E+}000$$

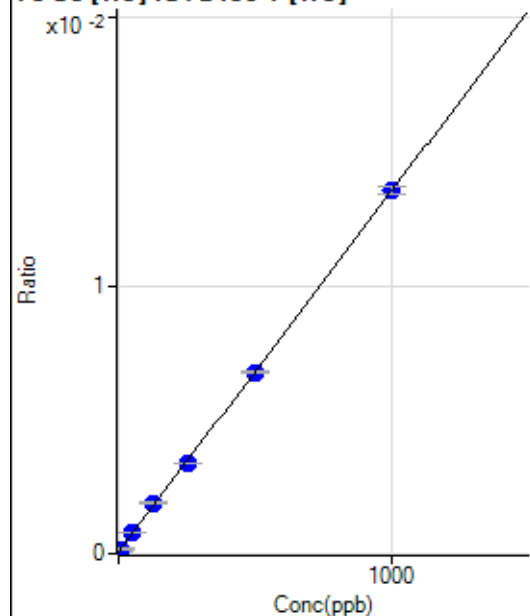
$$R = 0.9992$$

$$DL = 0$$

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	26.00	0.0001	P	19.8
2	☐	5.000	7.337	62.34	0.0002	P	23.0
3	☐	50.000	54.532	309.04	0.0008	P	3.1
4	☐	125.000	134.741	725.43	0.0019	P	2.6
5	☐	250.000	245.613	1312.53	0.0034	P	1.6
6	☐	500.000	497.658	2675.20	0.0068	P	1.2
7	☐	1000.000	1000.812	5529.31	0.0135	P	2.2
8	☐			32.67	0.0001	P	14.6

$$y = 1.3467\text{E-}005 * x + 6.9411\text{E-}005$$

$$R = 0.9999$$

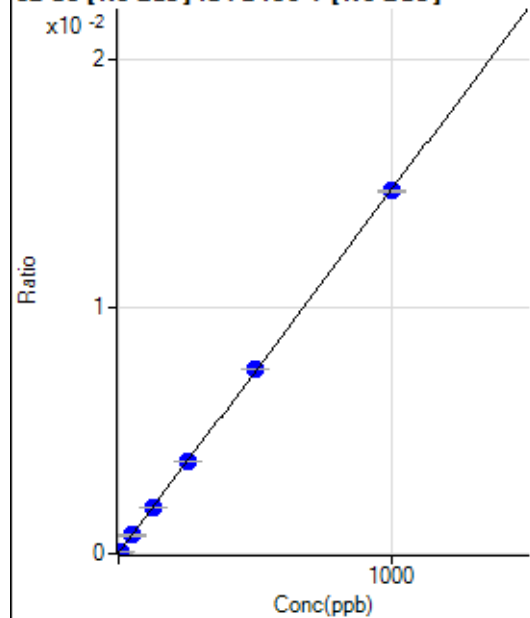
$$DL = 3.06$$

Weight: <None>

Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1261.36		P	12.5
2	☐			1254.69		P	3.3
3	☐			1281.38		P	6.1
4	☐			1401.51		P	1.2
5	☐			1371.48		P	10.1
6	☐			1234.66		P	13.6
7	☐			1171.26		P	14.8
8	☐			1334.77		P	9.8

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	67.98	0.0000	P	41.3
2	☐	5.000	3.894	217.29	0.0001	P	9.3
3	☐	50.000	48.954	2284.60	0.0007	P	2.3
4	☐	125.000	125.547	5774.55	0.0019	P	0.3
5	☐	250.000	250.366	11639.90	0.0037	P	0.2
6	☐	500.000	505.831	23653.43	0.0075	P	0.7
7	☐	1000.000	996.982	49662.89	0.0147	P	0.8
8	☐			11.44	0.0000	P	455.

$$y = 1.4707\text{E-}005 * x + 2.0305\text{E-}005$$

$$R = 1.0000$$

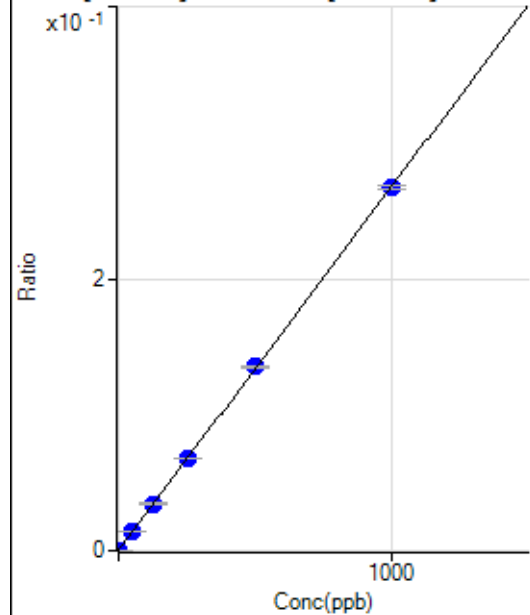
$$DL = 1.711$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			471.13		P	1.5
2	☐			555.57		P	2.1
3	☐			547.79		P	6.2
4	☐			565.57		P	11.2
5	☐			574.46		P	6.2
6	☐			498.90		P	8.6
7	☐			528.91		P	3.6
8	☐			528.91		P	3.1

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	808.38	0.0002	P	14.4
2	☐	1.000	1.381	1705.71	0.0006	P	1.9
3	☐	50.000	49.962	42013.82	0.0136	P	1.9
4	☐	125.000	127.317	106159.98	0.0343	P	2.1
5	☐	250.000	251.792	212648.02	0.0676	P	0.9
6	☐	500.000	504.840	429262.02	0.1354	P	0.4
7	☐	1000.000	996.844	903319.19	0.2671	P	1.2
8	☐			2722.55	0.0009	P	8.1

$$y = 2.6768E-004 * x + 2.4026E-004$$

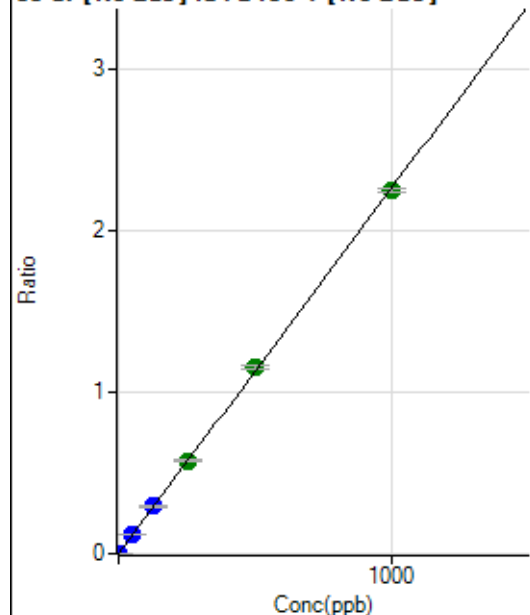
$$R = 1.0000$$

$$DL = 0.3885$$

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	55.56	0.0000	P	33.3
2	☐	1.000	1.121	7115.86	0.0025	P	7.0
3	☐	50.000	51.529	359243.74	0.1164	P	0.2
4	☐	125.000	129.172	902591.67	0.2918	P	1.5
5	☐	250.000	254.512	1807359.20	0.5749	A	0.6
6	☐	500.000	510.695	3657817.66	1.1535	A	1.9
7	☐	1000.000	992.926	7585850.43	2.2428	A	1.0
8	☐			16245.99	0.0052	P	0.8

$$y = 0.0023 * x + 1.6545E-005$$

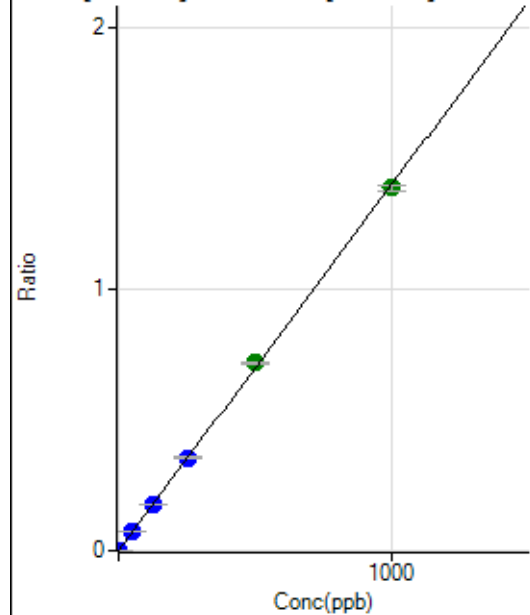
$$R = 0.9999$$

$$DL = 0.007316$$

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	158.34	0.0000	P	29.7
2	☐	1.000	1.124	4531.43	0.0016	P	8.9
3	☐	50.000	50.320	217682.34	0.0705	P	0.6
4	☐	125.000	127.523	552738.37	0.1787	P	0.7
5	☐	250.000	254.555	1121175.16	0.3566	P	0.7
6	☐	500.000	514.068	2283576.96	0.7202	A	0.8
7	☐	1000.000	991.496	4697892.25	1.3890	A	1.3
8	☐			1252.86	0.0004	P	12.8

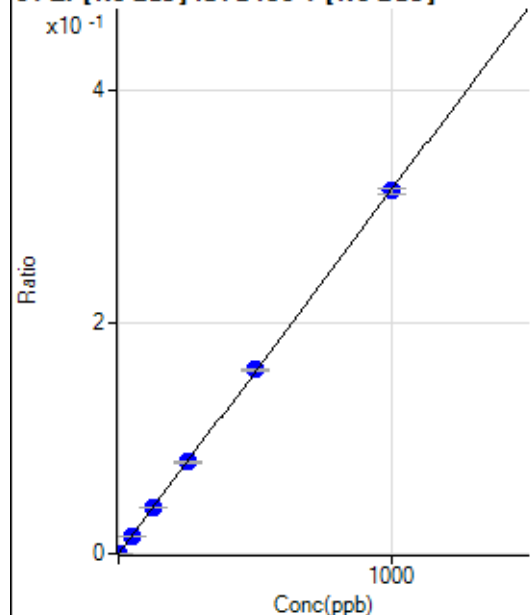
$$y = 0.0014 * x + 4.7402E-005$$

$$R = 0.9998$$

$$DL = 0.03013$$

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	44.45	0.0000	P	37.2
2	☐	1.000	1.044	952.84	0.0003	P	12.6
3	☐	50.000	49.612	48214.45	0.0156	P	0.9
4	☐	125.000	125.858	122541.83	0.0396	P	0.1
5	☐	250.000	251.458	248774.51	0.0791	P	1.6
6	☐	500.000	504.881	503762.86	0.1589	P	0.4
7	☐	1000.000	997.107	1061174.84	0.3137	P	1.3
8	☐			308.35	0.0001	P	11.0

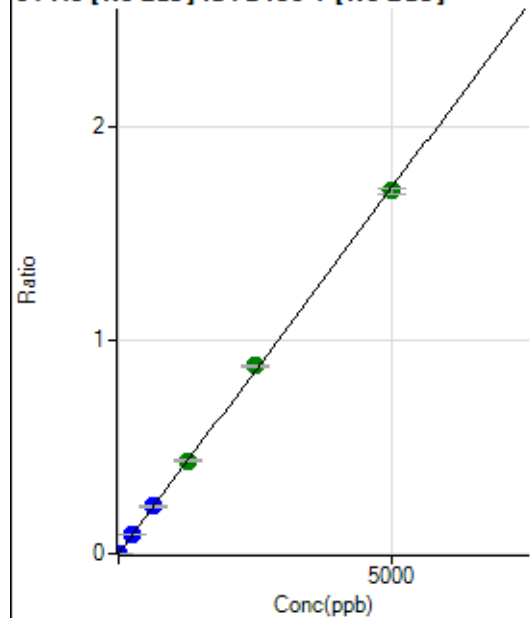
$$y = 3.1464\text{E-}004 * x + 1.3095\text{E-}005$$

$$R = 1.0000$$

$$DL = 0.04643$$

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	80.56	0.0000	P	70.4
2	☐	5.000	6.082	5895.86	0.0021	P	4.8
3	☐	250.000	254.599	269727.99	0.0874	P	0.7
4	☐	625.000	647.511	687478.72	0.2222	P	1.5
5	☐	1250.000	1270.264	1370556.99	0.4360	A	2.0
6	☐	2500.000	2565.354	2791806.59	0.8805	A	1.0
7	☐	5000.000	4959.212	5756478.73	1.7020	A	1.7
8	☐			3867.30	0.0012	P	4.6

$$y = 3.4320\text{E-}004 * x + 2.3129\text{E-}005$$

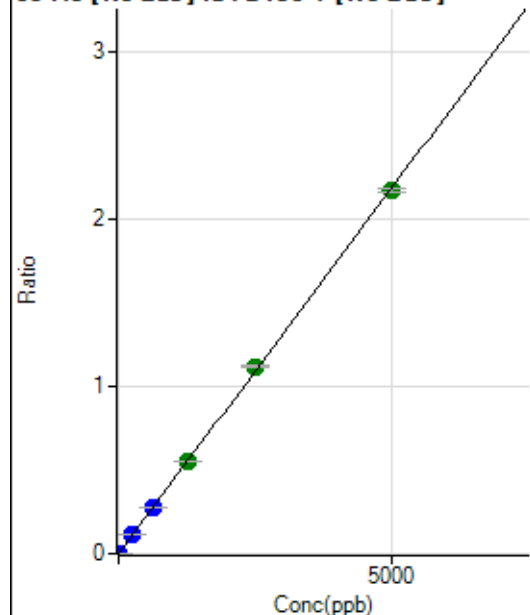
$$R = 0.9999$$

$$DL = 0.1423$$

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	13.89	0.0000	P	127.
2	☐	5.000	5.821	7124.24	0.0025	P	3.6
3	☐	250.000	251.471	338868.21	0.1098	P	1.0
4	☐	625.000	639.086	863191.40	0.2790	P	1.1
5	☐	1250.000	1259.650	1729091.82	0.5500	A	0.7
6	☐	2500.000	2561.348	3546255.64	1.1184	A	1.4
7	☐	5000.000	4965.078	7332527.16	2.1679	A	1.0
8	☐			5648.52	0.0018	P	5.8

$$y = 4.3663\text{E-}004 * x + 4.0926\text{E-}006$$

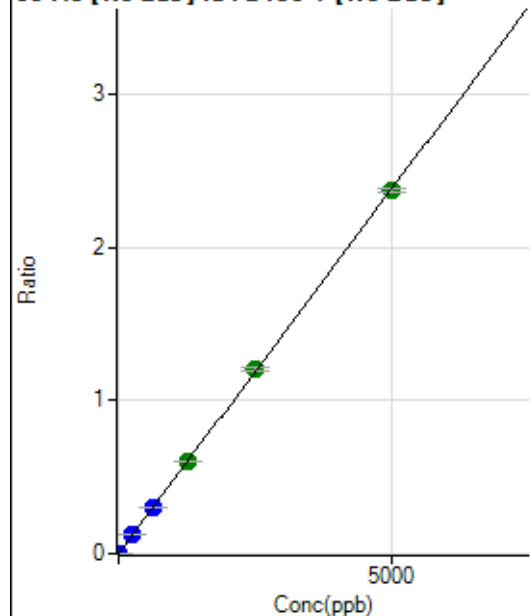
$$R = 0.9999$$

$$DL = 0.03588$$

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	33.33	0.0000	P	48.9
2	☐	5.000	5.947	7941.40	0.0028	P	2.9
3	☐	250.000	254.355	373730.88	0.1211	P	0.5
4	☐	625.000	641.445	944658.52	0.3054	P	1.4
5	☐	1250.000	1269.891	1900627.24	0.6046	A	1.2
6	☐	2500.000	2529.088	3817911.07	1.2040	A	1.7
7	☐	5000.000	4978.209	8016010.77	2.3700	A	1.1
8	☐			6337.67	0.0020	P	3.4

$$y = 4.7607\text{E-}004 * x + 1.0022\text{E-}005$$

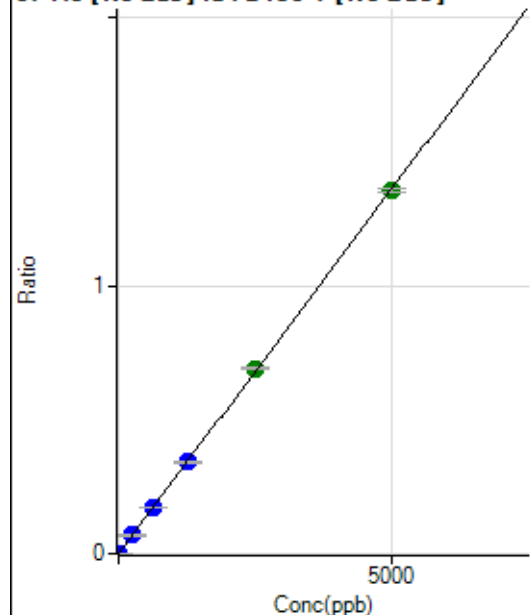
$$R = 1.0000$$

$$DL = 0.03089$$

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	8.33	0.0000	P	96.0
2	☐	5.000	6.002	4567.55	0.0016	P	2.0
3	☐	250.000	251.707	211074.11	0.0684	P	1.6
4	☐	625.000	631.106	530440.27	0.1715	P	1.6
5	☐	1250.000	1256.051	1072901.41	0.3413	P	1.6
6	☐	2500.000	2540.169	2188545.73	0.6902	A	1.2
7	☐	5000.000	4977.553	4574464.86	1.3525	A	1.0
8	☐			3356.06	0.0011	P	4.6

$$y = 2.7171\text{E-}004 * x + 2.4072\text{E-}006$$

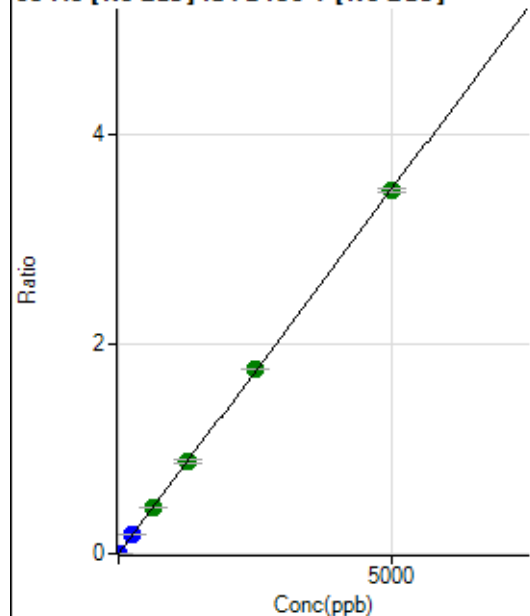
$$R = 1.0000$$

$$DL = 0.02553$$

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	16.67	0.0000	P	44.6
2	☐	5.000	5.744	11174.25	0.0040	P	6.5
3	☐	250.000	251.903	540832.10	0.1752	P	0.4
4	☐	625.000	639.224	1375624.29	0.4447	A	1.2
5	☐	1250.000	1263.951	2764168.10	0.8793	A	2.8
6	☐	2500.000	2530.938	5583063.66	1.7607	A	0.8
7	☐	5000.000	4979.169	11716201.13	3.4639	A	0.9
8	☐			9100.45	0.0029	P	3.7

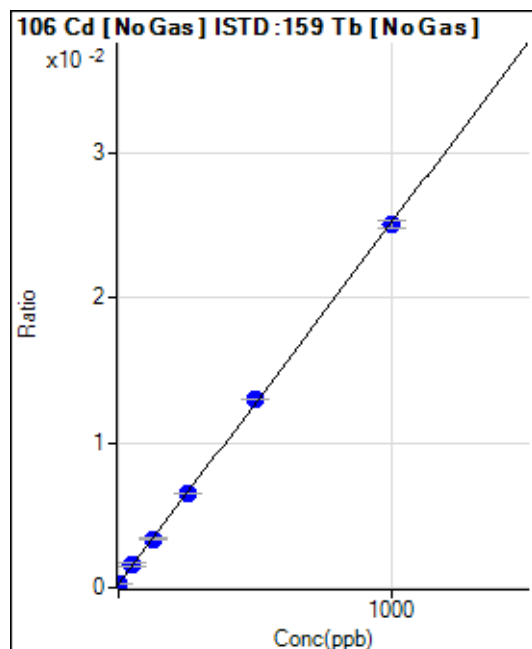
$$y = 6.9568\text{E-}004 * x + 4.8375\text{E-}006$$

$$R = 1.0000$$

$$DL = 0.009296$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	730.60	0.0002	P	10.0
2	☐	1.000	0.832	647.25	0.0003	P	20.3
3	☐	50.000	53.616	4239.67	0.0016	P	11.9
4	☐	125.000	125.642	9211.63	0.0034	P	1.0
5	☐	250.000	252.005	18045.49	0.0065	P	0.2
6	☐	500.000	510.979	36253.59	0.0130	P	0.4
7	☐	1000.000	993.748	73800.75	0.0250	P	1.9
8	☐			633.37	0.0002	P	8.9

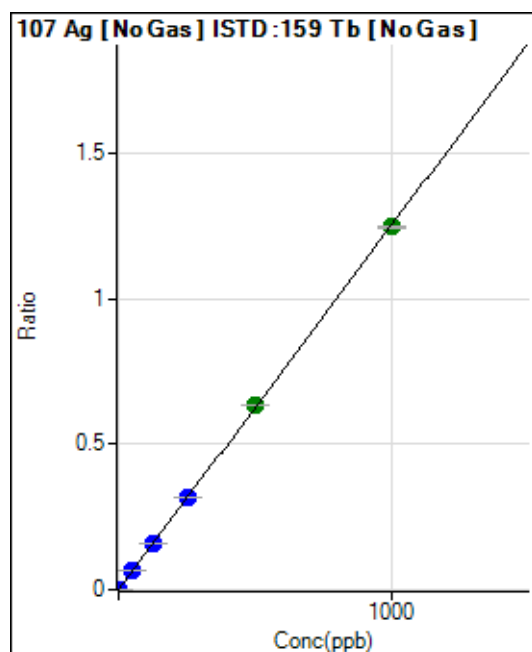
$$y = 2.4943\text{E-}005 * x + 2.4902\text{E-}004$$

$$R = 0.9999$$

$$DL = 2.994$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	25.00	0.0000	P	69.9
2	☐	1.000	0.960	2908.72	0.0012	P	5.0
3	☐	50.000	51.023	170966.09	0.0639	P	1.1
4	☐	125.000	126.121	430250.49	0.1580	P	1.4
5	☐	250.000	253.639	877404.03	0.3178	P	1.1
6	☐	500.000	506.729	1771086.76	0.6348	A	0.8
7	☐	1000.000	995.535	3676560.15	1.2472	A	0.7
8	☐			950.06	0.0004	P	1.1

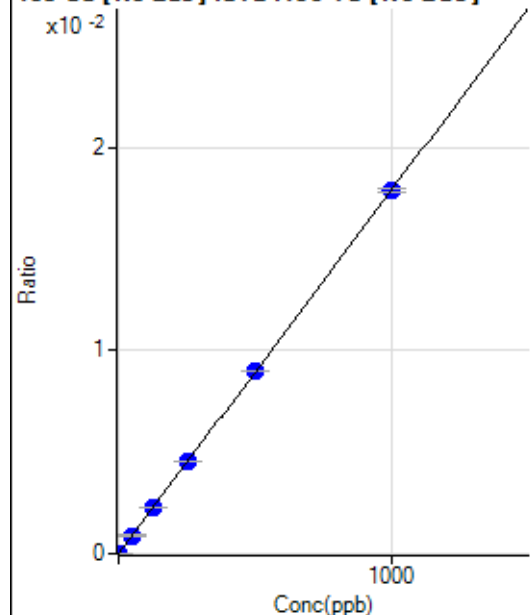
$$y = 0.0013 * x + 8.7351\text{E-}006$$

$$R = 1.0000$$

$$DL = 0.01462$$

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	0.00	0.0000	P	
2	☐	1.000	1.205	51.39	0.0000	P	42.3
3	☐	50.000	48.929	2340.50	0.0009	P	5.9
4	☐	125.000	125.182	6097.24	0.0022	P	1.1
5	☐	250.000	254.367	12564.16	0.0045	P	0.3
6	☐	500.000	501.857	25045.08	0.0090	P	0.7
7	☐	1000.000	998.010	52622.16	0.0179	P	1.1
8	☐			61.11	0.0000	P	31.9

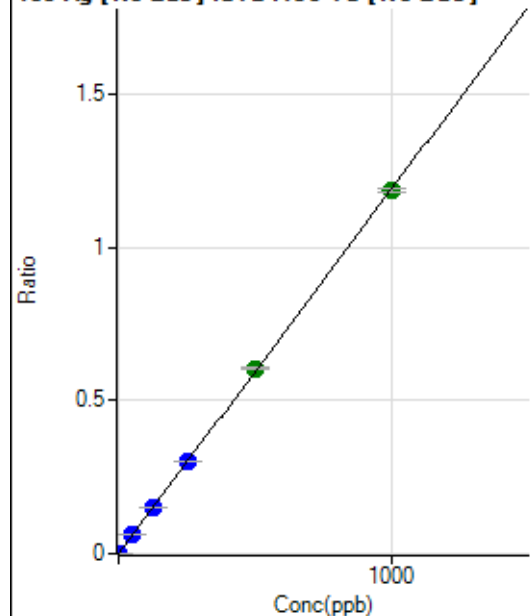
$$y = 1.7887\text{E-}005 * x + 0.0000\text{E+}000$$

$$R = 1.0000$$

$$DL = 0$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	13.89	0.0000	P	127.
2	☐	1.000	0.969	2775.36	0.0012	P	5.9
3	☐	50.000	51.468	163607.32	0.0612	P	1.1
4	☐	125.000	127.089	411340.96	0.1511	P	1.1
5	☐	250.000	252.995	830313.41	0.3007	P	1.5
6	☐	500.000	507.146	1681748.30	0.6028	A	1.2
7	☐	1000.000	995.344	3487328.07	1.1831	A	1.1
8	☐			855.61	0.0003	P	11.3

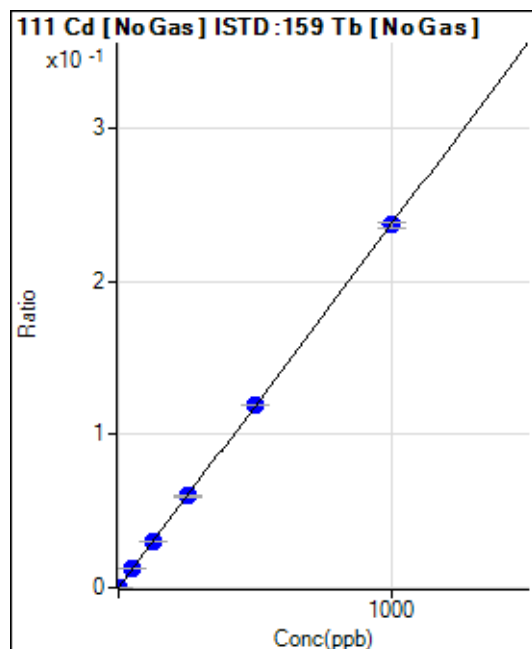
$$y = 0.0012 * x + 4.7407\text{E-}006$$

$$R = 1.0000$$

$$DL = 0.01528$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	148.90	0.0001	P	8.2
2	☐	1.000	1.143	772.67	0.0003	P	9.8
3	☐	50.000	50.944	32505.47	0.0122	P	2.9
4	☐	125.000	126.392	81905.28	0.0301	P	1.0
5	☐	250.000	251.854	165360.80	0.0599	P	1.7
6	☐	500.000	502.722	333369.20	0.1195	P	0.4
7	☐	1000.000	997.955	699032.25	0.2372	P	1.7
8	☐			217.24	0.0001	P	11.3

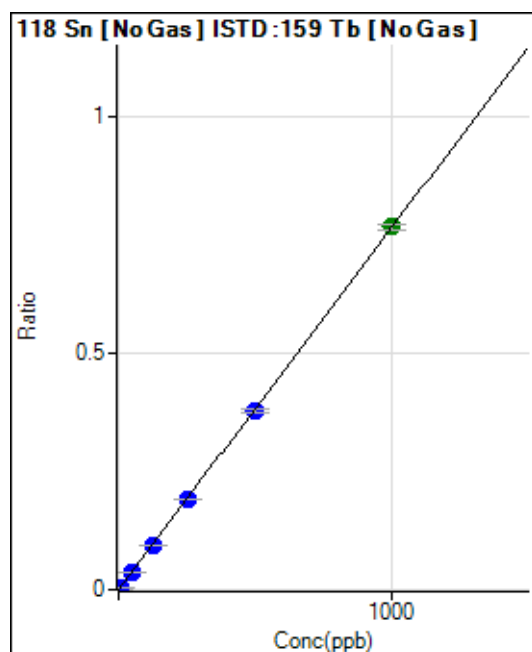
$$y = 2.3759\text{E-}004 * x + 5.0744\text{E-}005$$

$$R = 1.0000$$

$$DL = 0.05285$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	183.34	0.0001	P	16.2
2	☐	5.000	5.850	10868.49	0.0045	P	5.1
3	☐	50.000	49.881	101983.78	0.0381	P	0.5
4	☐	125.000	124.084	258037.58	0.0948	P	0.4
5	☐	250.000	249.443	525849.98	0.1904	P	0.9
6	☐	500.000	494.144	1052309.38	0.3772	P	1.7
7	☐	1000.000	1003.183	2257121.69	0.7657	A	1.3
8	☐			1800.18	0.0007	P	1.6

$$y = 7.6320\text{E-}004 * x + 6.2084\text{E-}005$$

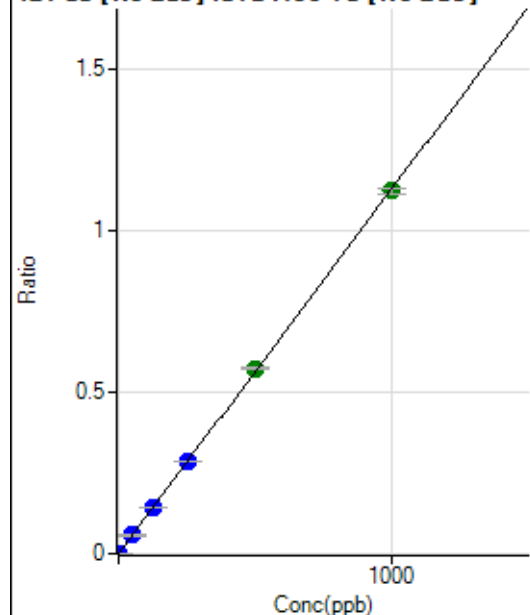
$$R = 1.0000$$

$$DL = 0.03958$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	22.22	0.0000	P	47.9
2	☐	2.000	2.217	6018.14	0.0025	P	4.3
3	☐	50.000	50.247	151383.87	0.0566	P	0.7
4	☐	125.000	125.488	384909.77	0.1414	P	1.1
5	☐	250.000	252.427	785153.62	0.2843	P	0.8
6	☐	500.000	507.364	1594421.79	0.5715	A	0.9
7	☐	1000.000	995.638	3305804.11	1.1215	A	1.4
8	☐			2419.72	0.0009	P	9.8

$$y = 0.0011 * x + 7.6676E-006$$

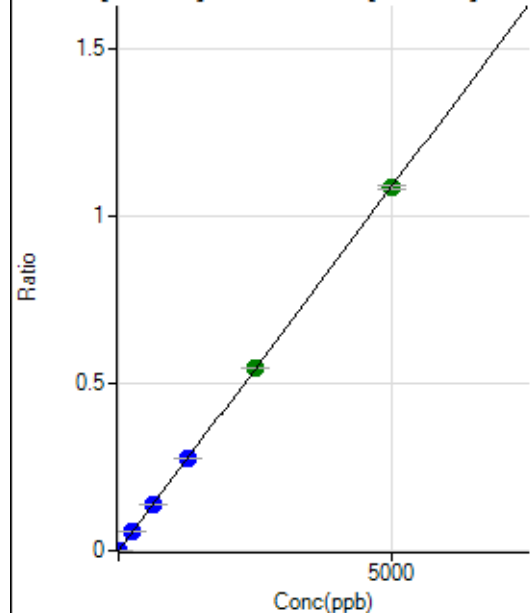
$$R = 1.0000$$

$$DL = 0.009772$$

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	13.89	0.0000	P	71.0
2	☐	10.000	11.330	5918.10	0.0025	P	9.5
3	☐	250.000	254.116	147679.02	0.0552	P	1.8
4	☐	625.000	628.271	371745.35	0.1365	P	0.5
5	☐	1250.000	1271.310	762787.06	0.2762	P	0.9
6	☐	2500.000	2514.333	1524232.61	0.5463	A	0.7
7	☐	5000.000	4986.889	3194129.22	1.0836	A	1.2
8	☐			6146.00	0.0023	P	4.1

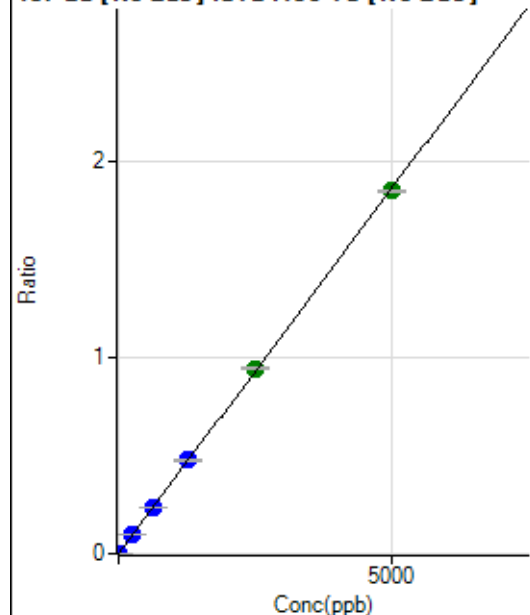
$$y = 2.1729E-004 * x + 4.7686E-006$$

$$R = 1.0000$$

$$DL = 0.04672$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	13.89	0.0000	P	34.2
2	☐	10.000	11.428	10237.43	0.0043	P	1.9
3	☐	250.000	255.359	254456.69	0.0951	P	0.7
4	☐	625.000	637.457	646727.55	0.2375	P	0.3
5	☐	1250.000	1280.863	1317762.55	0.4772	P	0.7
6	☐	2500.000	2537.525	2637651.84	0.9454	A	1.0
7	☐	5000.000	4971.694	5460476.08	1.8524	A	0.4
8	☐			10154.07	0.0038	P	1.1

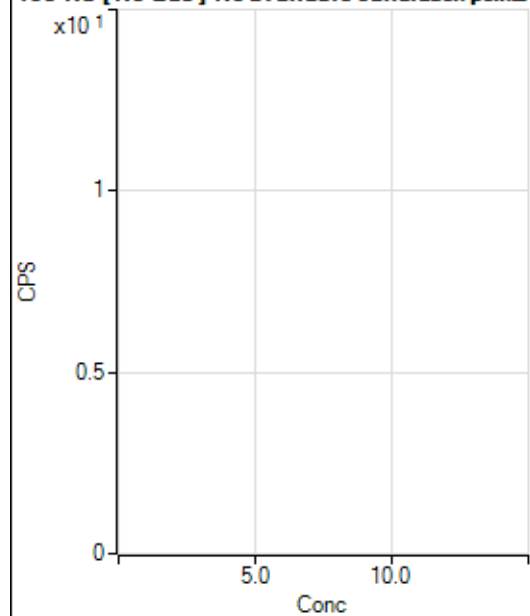
$$y = 3.7258E-004 * x + 4.7212E-006$$

$$R = 0.9999$$

$$DL = 0.01302$$

Weight: <None>

Min Conc: 0

150 Nd [No Gas] No available calibration points

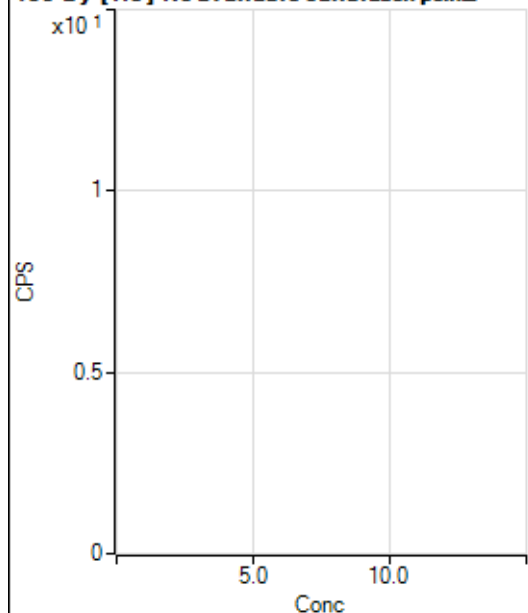
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐			6.67		P	173.
2	☐			6.67		P	100.
3	☐			11.11		P	34.6
4	☐			20.00		P	57.7
5	☐			28.89		P	13.3
6	☐			64.45		P	41.8
7	☐			100.00		P	35.3
8	☐			28.89		P	70.5

150 Nd [He] No available calibration points

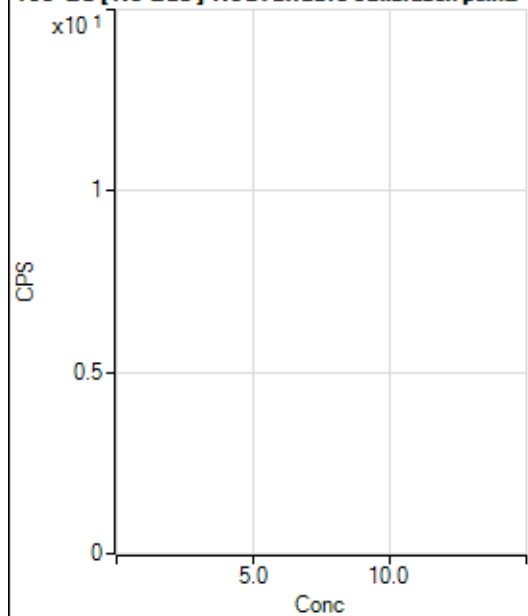
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			0.00		P	
2	☐			1.11		P	173.
3	☐			1.11		P	173.
4	☐			2.22		P	86.6
5	☐			7.78		P	89.2
6	☐			4.44		P	43.4
7	☐			18.89		P	27.0
8	☐			7.78		P	24.7

156 Dy [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			11.11		P	43.3
2	☐			2.78		P	173.
3	☐			8.33		P	100.
4	☐			8.33		P	173.
5	☐			8.33		P	0.0
6	☐			22.22		P	43.3
7	☐			47.22		P	10.2
8	☐			147.23		P	21.4

156 Dy [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1.11		P	173.
2	☐			0.00		P	
3	☐			2.22		P	86.6
4	☐			7.78		P	65.5
5	☐			15.55		P	44.6
6	☐			13.33		P	25.0
7	☐			23.33		P	42.9
8	☐			93.33		P	25.0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			22.22		P	94.4
2	☐			36.11		P	48.0
3	☐			41.67		P	80.0
4	☐			41.67		P	60.0
5	☐			25.00		P	33.3
6	☐			36.11		P	70.5
7	☐			38.89		P	49.5
8	☐			205.56		P	46.1

160 Gd [He] No available calibration points

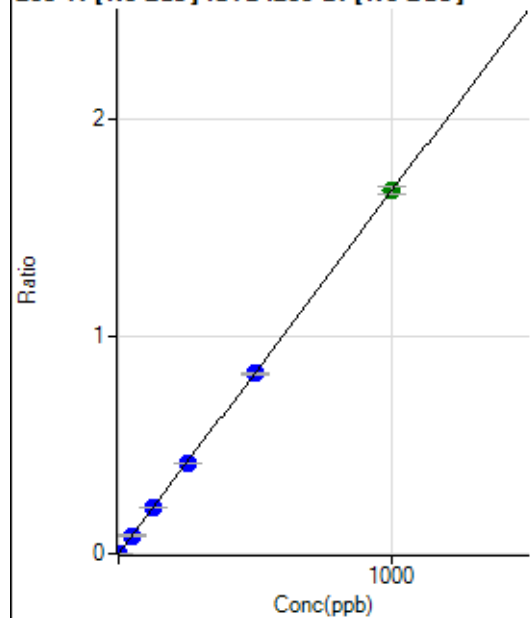
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			10.00		P	57.8
2	☐			3.33		P	100.
3	☐			7.78		P	49.5
4	☐			5.55		P	124.
5	☐			13.33		P	NaN
6	☐			15.55		P	24.8
7	☐			32.22		P	39.2
8	☐			107.78		P	1.8

164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			16.67		P	50.0
2	☐			8.33		P	100.
3	☐			16.67		P	100.
4	☐			11.11		P	86.6
5	☐			13.89		P	91.6
6	☐			36.11		P	70.5
7	☐			16.67		P	50.0
8	☐			27.78		P	17.3

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			5.56		P	91.6
2	☐			4.44		P	43.4
3	☐			5.56		P	34.7
4	☐			2.22		P	86.6
5	☐			6.67		P	50.0
6	☐			11.11		P	34.6
7	☐			14.44		P	35.3
8	☐			13.33		P	NaN

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	13.67	0.0000	P	62.3
2	☐	1.000	1.093	2585.43	0.0018	P	4.3
3	☐	50.000	50.262	131233.78	0.0839	P	0.8
4	☐	125.000	125.963	331338.48	0.2103	P	0.6
5	☐	250.000	251.463	678956.10	0.4199	P	0.1
6	☐	500.000	497.090	1358981.79	0.8300	P	0.9
7	☐	1000.000	1000.955	2883586.85	1.6713	A	2.0
8	☐			1393.87	0.0009	P	12.2

$$y = 0.0017 * x + 7.8378E-006$$

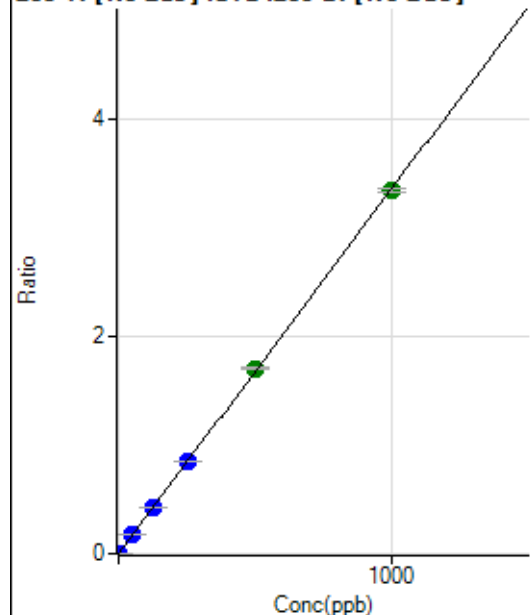
$$R = 1.0000$$

$$DL = 0.00877$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	19.22	0.0000	P	54.4
2	☐	1.000	1.125	5355.65	0.0038	P	6.1
3	☐	50.000	51.044	268289.04	0.1716	P	1.5
4	☐	125.000	128.243	679096.99	0.4311	P	0.9
5	☐	250.000	254.133	1381339.75	0.8542	P	0.3
6	☐	500.000	507.294	2791942.30	1.7052	A	0.9
7	☐	1000.000	994.862	5770153.36	3.3440	A	1.0
8	☐			3033.07	0.0020	P	11.2

$$y = 0.0034 * x + 1.1136E-005$$

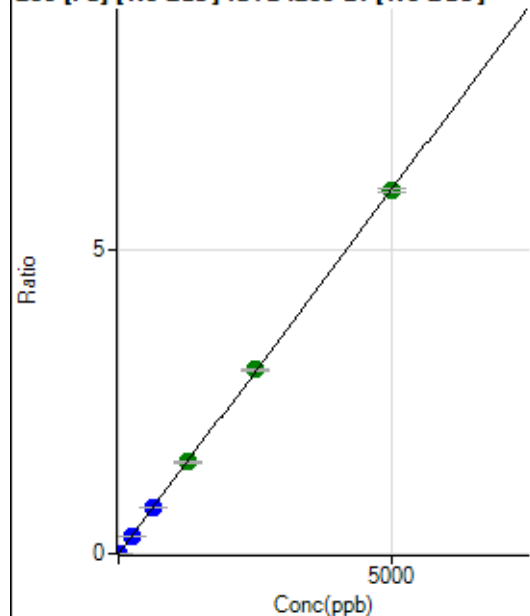
$$R = 0.9999$$

$$DL = 0.00541$$

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	352.77	0.0002	P	20.8
2	☐	1.000	0.821	1673.58	0.0012	P	7.6
3	☐	250.000	247.487	463897.33	0.2967	P	0.7
4	☐	625.000	624.458	1178807.60	0.7483	P	1.0
5	☐	1250.000	1258.110	2437594.58	1.5074	A	1.1
6	☐	2500.000	2527.234	4957367.16	3.0277	A	1.4
7	☐	5000.000	4984.549	10303887.62	5.9715	A	1.1
8	☐			7573.03	0.0051	P	8.2

$$y = 0.0012 * x + 2.0302E-004$$

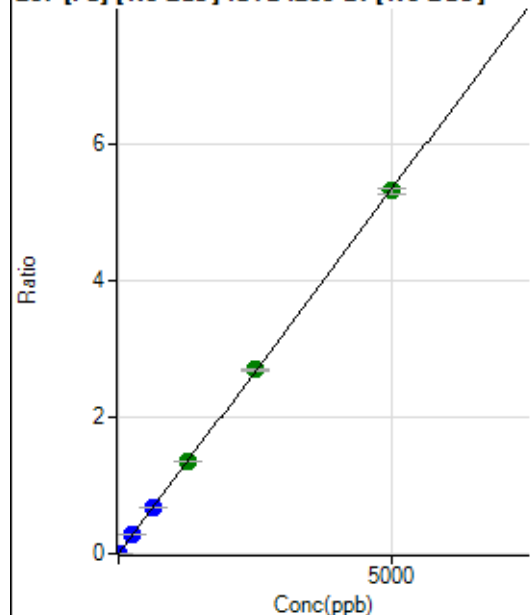
$$R = 1.0000$$

$$DL = 0.1055$$

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	299.07	0.0002	P	14.8
2	☐	1.000	0.753	1380.94	0.0010	P	7.7
3	☐	250.000	251.488	420367.72	0.2688	P	0.4
4	☐	625.000	631.358	1062840.84	0.6747	P	0.9
5	☐	1250.000	1267.866	2190510.73	1.3547	A	1.0
6	☐	2500.000	2530.440	4426671.66	2.7035	A	0.8
7	☐	5000.000	4979.444	9179321.51	5.3198	A	1.3
8	☐			6551.88	0.0044	P	4.7

$$y = 0.0011 * x + 1.7293E-004$$

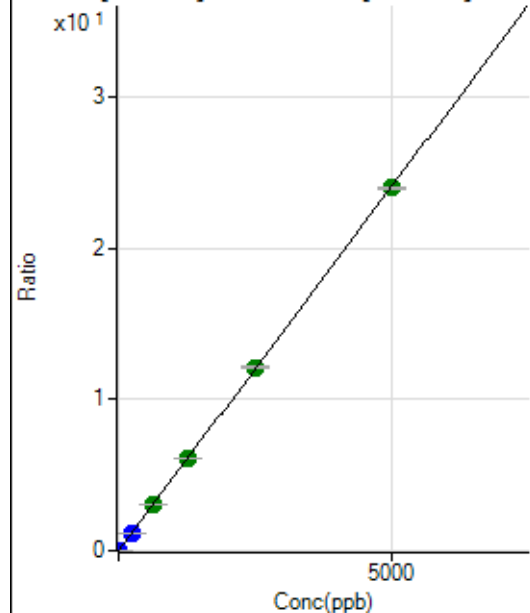
$$R = 1.0000$$

$$DL = 0.07188$$

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	1406.78	0.0008	P	3.7
2	☐	1.000	0.724	6060.37	0.0043	P	7.5
3	☐	250.000	249.063	1877259.31	1.2006	P	0.4
4	☐	625.000	638.259	4844822.67	3.0754	A	1.0
5	☐	1250.000	1262.737	9837614.46	6.0836	A	0.4
6	☐	2500.000	2520.732	19883407.44	12.1436	A	1.1
7	☐	5000.000	4984.839	41437049.05	24.0136	A	0.7
8	☐			26939.09	0.0181	P	6.7

$$y = 0.0048 * x + 8.1064E-004$$

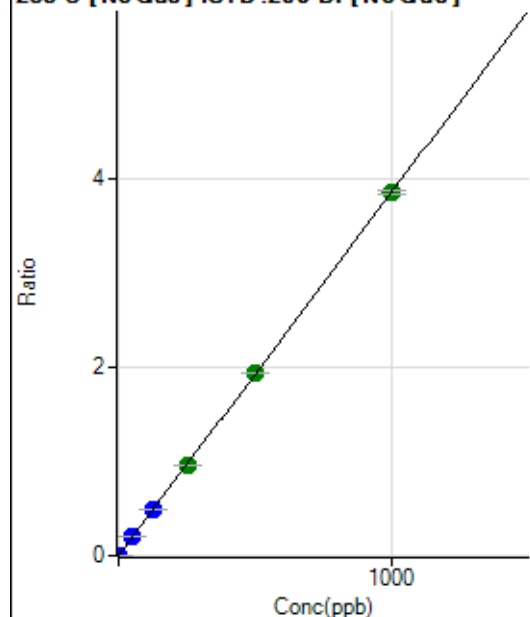
$$R = 1.0000$$

$$DL = 0.01857$$

Weight: <None>

Min Conc: 0

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	5.55	0.0000	P	86.8
2	☐	1.000	1.069	5804.27	0.0041	P	7.4
3	☐	50.000	50.823	305827.96	0.1956	P	0.3
4	☐	125.000	126.992	769905.89	0.4887	P	0.5
5	☐	250.000	248.019	1543432.07	0.9545	A	0.5
6	☐	500.000	503.210	3170824.40	1.9365	A	0.7
7	☐	1000.000	998.600	6631339.99	3.8430	A	1.1
8	☐			600.03	0.0004	P	14.8

$$y = 0.0038 * x + 3.1213E-006$$

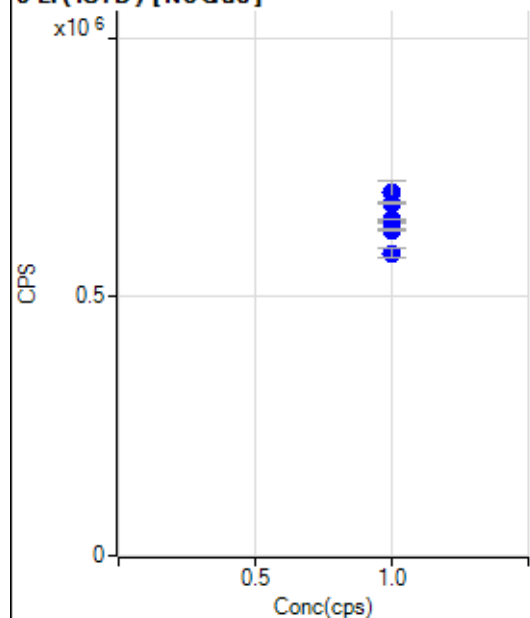
$$R = 1.0000$$

$$DL = 0.002111$$

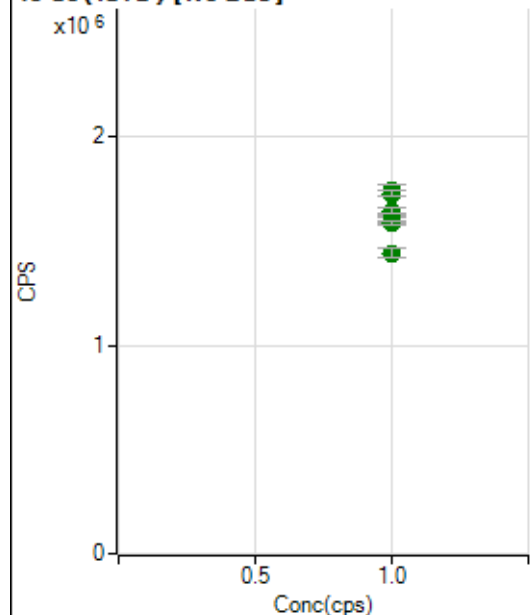
Weight: <None>

Min Conc: 0

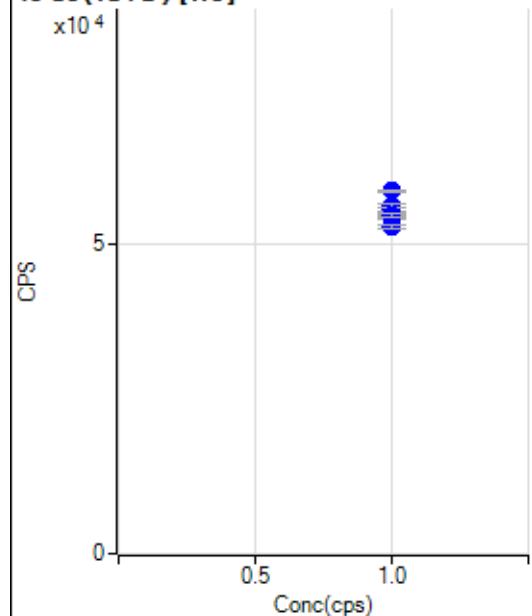
6 Li (ISTD) [No Gas]



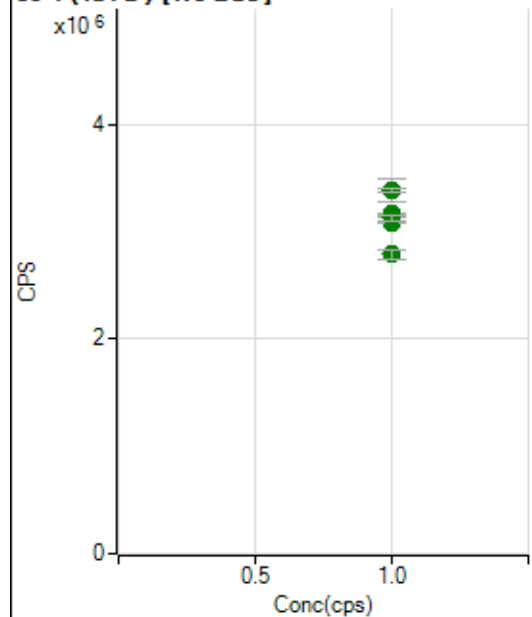
	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		700688.83		P	6.3
2	☐	1.000		583581.21		P	3.1
3	☐	1.000		641972.91		P	0.3
4	☐	1.000		644618.17		P	0.8
5	☐	1.000		650372.09		P	0.4
6	☐	1.000		650309.43		P	0.3
7	☐	1.000		681212.90		P	0.2
8	☐	1.000		628720.36		P	0.3

45 Sc (ISTD) [No Gas]

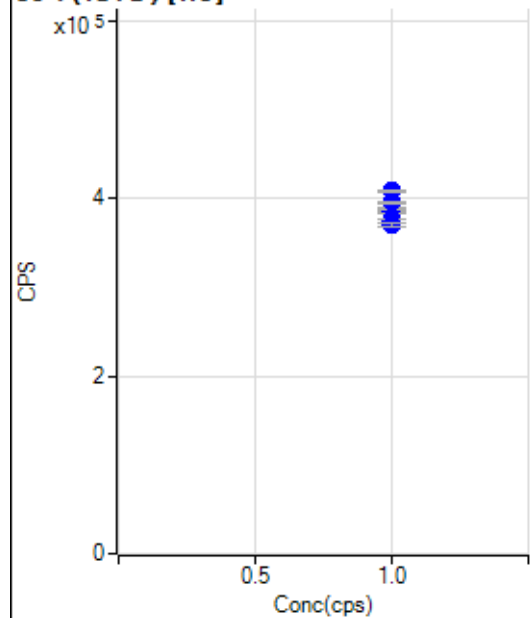
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1741254.35		A	3.3
2	☐	1.000		1443347.72		A	3.5
3	☐	1.000		1586131.30		A	0.7
4	☐	1.000		1618185.01		A	0.3
5	☐	1.000		1629814.33		A	0.9
6	☐	1.000		1644542.20		A	1.6
7	☐	1.000		1729509.99		A	1.8
8	☐	1.000		1589272.09		A	1.1

45 Sc (ISTD) [He]

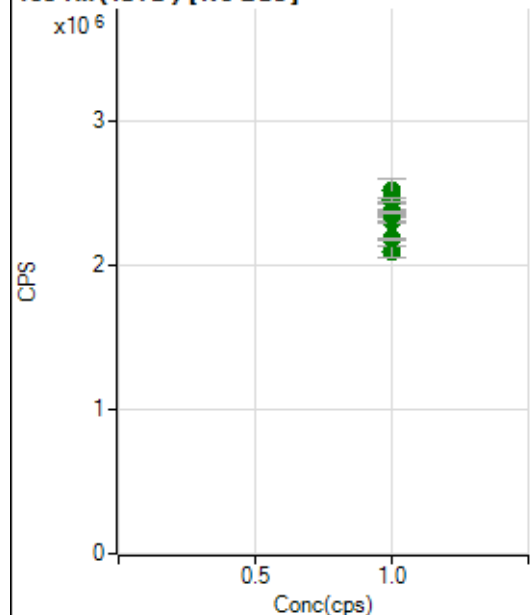
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		54168.18		P	0.4
2	☐	1.000		52884.48		P	1.2
3	☐	1.000		55039.32		P	1.3
4	☐	1.000		55518.87		P	1.4
5	☐	1.000		54629.98		P	1.0
6	☐	1.000		56126.84		P	1.1
7	☐	1.000		58589.84		P	0.6
8	☐	1.000		54574.17		P	1.1

89 Y (ISTD) [No Gas]

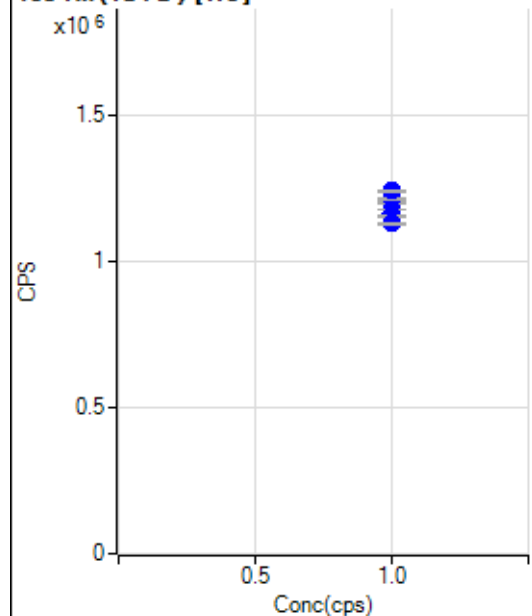
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3382912.31		A	6.4
2	☐	1.000		2796627.29		A	3.2
3	☐	1.000		3086094.54		A	0.2
4	☐	1.000		3093460.30		A	0.6
5	☐	1.000		3143854.61		A	0.5
6	☐	1.000		3170904.75		A	0.1
7	☐	1.000		3382581.41		A	1.2
8	☐	1.000		3134870.20		A	1.7

89 Y (ISTD) [He]

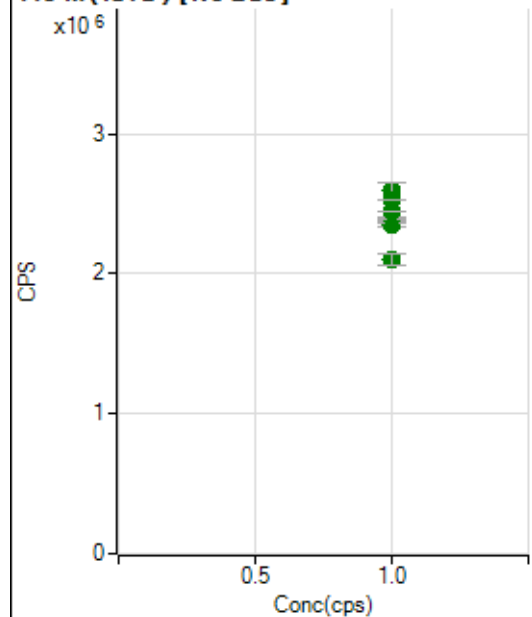
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		374922.36		P	1.1
2	☐	1.000		370425.29		P	1.1
3	☐	1.000		384464.97		P	0.0
4	☐	1.000		385094.17		P	0.8
5	☐	1.000		388639.02		P	0.6
6	☐	1.000		395075.01		P	0.1
7	☐	1.000		408158.00		P	0.3
8	☐	1.000		394949.23		P	0.6

103 Rh (ISTD) [No Gas]

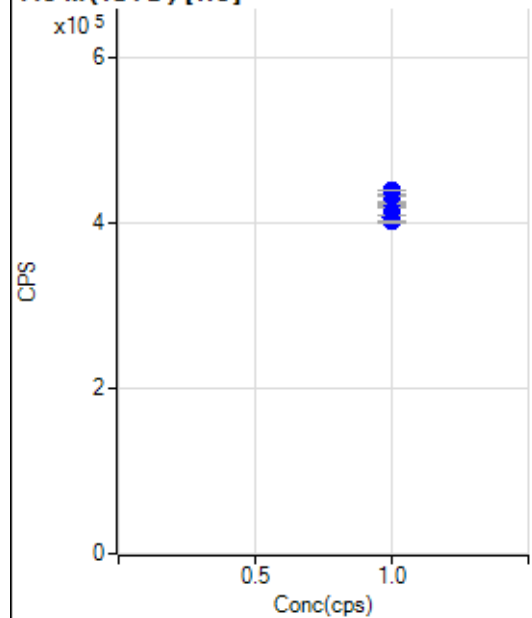
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2510908.30		A	6.7
2	☐	1.000		2094389.72		A	3.8
3	☐	1.000		2296078.28		A	0.4
4	☐	1.000		2341349.88		A	0.6
5	☐	1.000		2371997.88		A	0.9
6	☐	1.000		2361404.09		A	0.5
7	☐	1.000		2449596.56		A	0.7
8	☐	1.000		2180769.08		A	0.7

103 Rh (ISTD) [He]

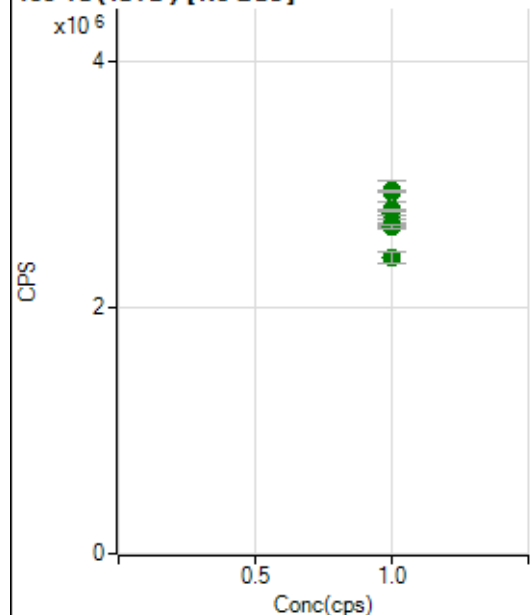
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1168327.12		P	1.7
2	☐	1.000		1157124.72		P	0.2
3	☐	1.000		1202169.60		P	0.7
4	☐	1.000		1202555.75		P	0.3
5	☐	1.000		1204213.69		P	0.7
6	☐	1.000		1218048.97		P	0.4
7	☐	1.000		1243622.46		P	0.8
8	☐	1.000		1132817.95		P	0.5

115 In (ISTD) [No Gas]

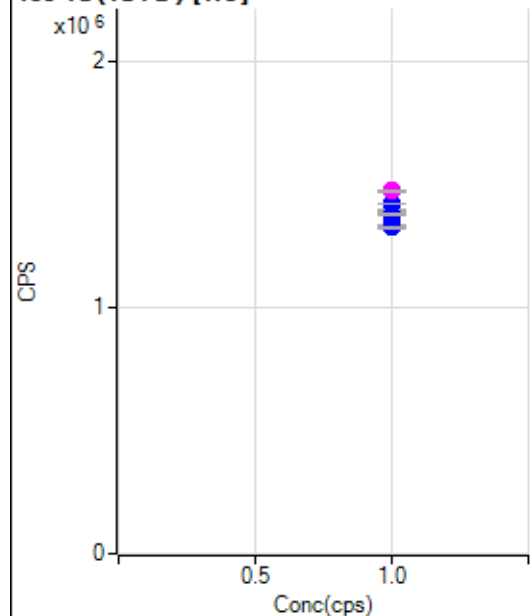
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2592580.93		A	4.5
2	☐	1.000		2104202.51		A	3.8
3	☐	1.000		2349984.43		A	1.5
4	☐	1.000		2361014.75		A	0.3
5	☐	1.000		2369734.38		A	0.5
6	☐	1.000		2398819.08		A	0.7
7	☐	1.000		2528916.12		A	0.5
8	☐	1.000		2450161.08		A	0.2

115 In (ISTD) [He]

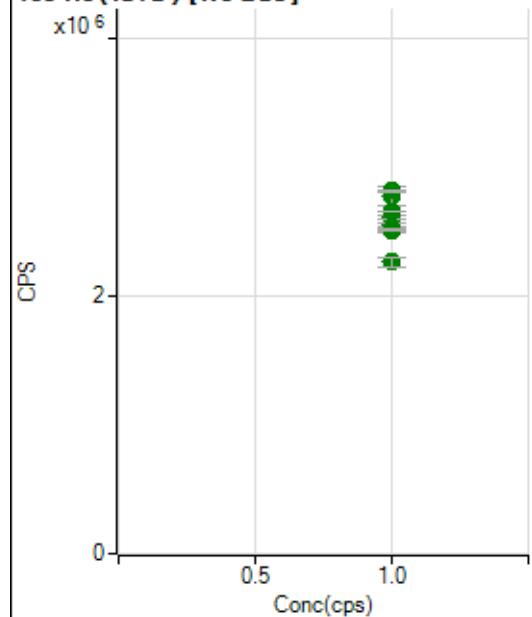
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		406056.71		P	1.7
2	☐	1.000		401355.27		P	0.6
3	☐	1.000		418788.06		P	0.2
4	☐	1.000		419830.26		P	0.0
5	☐	1.000		420140.85		P	0.9
6	☐	1.000		424865.08		P	0.7
7	☐	1.000		433498.18		P	0.5
8	☐	1.000		438866.98		P	0.0

159 Tb (ISTD) [No Gas]

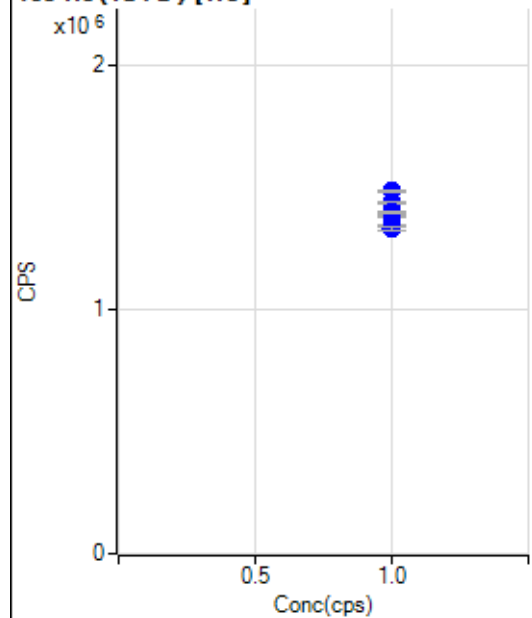
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2938526.38		A	5.8
2	☐	1.000		2402716.49		A	3.6
3	☐	1.000		2674435.19		A	1.0
4	☐	1.000		2722972.74		A	0.1
5	☐	1.000		2761416.62		A	1.1
6	☐	1.000		2789917.56		A	0.3
7	☐	1.000		2947866.76		A	0.7
8	☐	1.000		2655313.64		A	1.0

159 Tb (ISTD) [He]

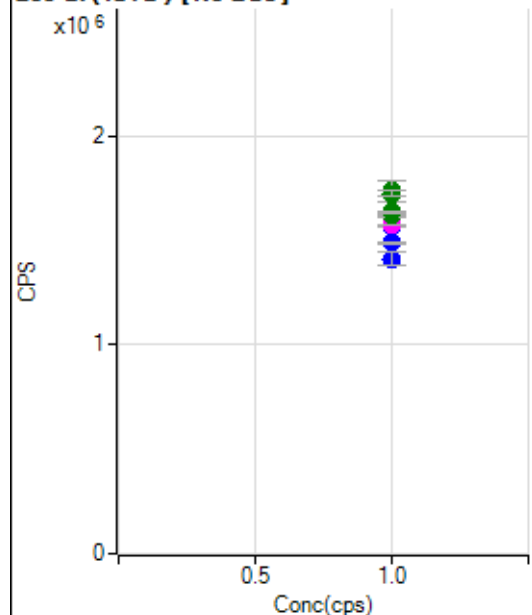
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1336840.61		P	0.6
2	☐	1.000		1327198.75		P	0.4
3	☐	1.000		1379270.20		P	0.1
4	☐	1.000		1377376.98		P	0.4
5	☐	1.000		1394826.00		P	0.7
6	☐	1.000		1422924.47		P	0.4
7	☐	1.000		1474926.54		M	0.8
8	☐	1.000		1379014.61		P	0.7

165 Ho (ISTD) [No Gas]

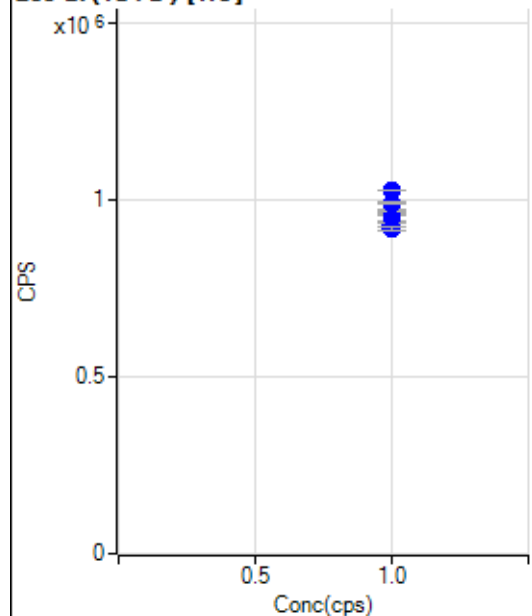
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2782481.07		A	5.5
2	☐	1.000		2264770.79		A	3.4
3	☐	1.000		2517310.56		A	1.2
4	☐	1.000		2560339.27		A	1.0
5	☐	1.000		2613968.14		A	1.1
6	☐	1.000		2662410.93		A	0.2
7	☐	1.000		2819767.84		A	0.9
8	☐	1.000		2522924.73		A	0.4

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1339034.27		P	0.9
2	☐	1.000		1329300.58		P	0.8
3	☐	1.000		1378714.34		P	0.3
4	☐	1.000		1384320.66		P	0.3
5	☐	1.000		1399370.55		P	0.5
6	☐	1.000		1437391.35		P	0.5
7	☐	1.000		1483850.19		P	0.4
8	☐	1.000		1397663.02		P	0.5

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1737647.25		A	5.7
2	☐	1.000		1412880.53		P	4.5
3	☐	1.000		1563619.78		P	0.1
4	☐	1.000		1575387.62		M	0.4
5	☐	1.000		1617075.22		A	0.7
6	☐	1.000		1637406.26		A	0.6
7	☐	1.000		1725662.92		A	1.2
8	☐	1.000		1489720.72		P	0.8

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		938010.69		P	0.7
2	☐	1.000		927893.77		P	1.3
3	☐	1.000		959951.55		P	0.3
4	☐	1.000		963888.99		P	0.2
5	☐	1.000		969051.37		P	0.4
6	☐	1.000		990526.05		P	0.6
7	☐	1.000		1025675.41		P	0.1
8	☐	1.000		918702.09		P	0.7

US EPA Tune Check Report

Operator Name Jaswal
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\P8030120-MS.b
Acq. Date-Time 3/1/2020 10:58:23 AM
Report Comment ---
Instrument Name G8403A SG19224459

[No Gas]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
9		2803	28025.96			1.399	5.000
24		30605	306051.44			1.328	5.000
25		4347	43473.28			1.208	5.000
26		4914	49136.42			1.186	5.000
59		25230	252296.39			1.189	5.000
113		1536	15362.35			1.919	5.000
115		35296	352964.44			2.325	5.000
206		6454	64543.36			1.249	5.000
207		5827	58267.98			1.664	5.000
208		13758	137582.49			1.299	5.000
220		0	3.00			16.667	

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

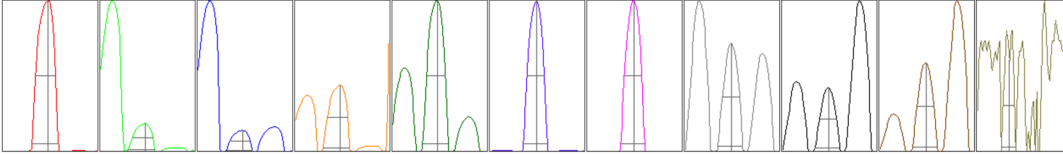
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	2751	2817	2772	2830	2843
24	30513	30586	30012	31119	30795
25	4323	4367	4276	4417	4353
26	4859	4900	4860	4973	4977
59	24916	25198	24988	25401	25645
113	1582	1546	1506	1529	1518
115	36503	35781	34670	34915	34614
206	6389	6469	6358	6554	6501
207	5737	5823	5731	5959	5883
208	13601	13748	13565	13960	13917

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	4731.48	8.95	8.90 - 9.10	
24	51303.65	23.95	23.90 - 24.10	
25	6906.35	24.95	24.90 - 25.10	
26	8230.91	25.95	25.90 - 26.10	
59	43975.88	58.95	58.90 - 59.10	
113	2955.98	113.00	112.90 - 113.10	
115	68020.69	115.00	114.90 - 115.10	
206	12270.72	206.00	205.90 - 206.10	
207	11172.25	207.00	206.90 - 207.10	
208	26491.61	208.00	207.90 - 208.10	
220	0.45	219.55	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.64	0.829	0.900	
24	0.66	0.833	0.900	
25	0.65	0.795	0.900	
26	0.66	0.833	0.900	
59	0.60	0.819	0.900	
113	0.54	0.768	0.900	
115	0.54	0.764	0.900	
206	0.54	0.779	0.900	
207	0.53	0.787	0.900	
208	0.53	0.780	0.900	
220	0.37	0.442		

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode HMI Nebulizer Gas 0.50 L/min Dilution Gas 0.45 L/min

US EPA Tune Check Report

RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.80 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	10.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	-6.0 V	Omega Lens	11.5 V	Deflect	14.4 V
Extract 2	-250.0 V	Cell Entrance	-30 V	Plate Bias	-50 V
Omega Bias	-115 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	4.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	---	OctP RF	170 V		

QP Parameters

Mass Gain	123	Axis Gain	0.9993	QP Bias	-4.0 V
Mass Offset	123	Axis Offset	-0.05		

Hardware Settings

Torch

Torch H	0.4 mm	Torch V	0.1 mm
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EM

Discriminator	3.9 mV	Analog HV	2168 V	Pulse HV	1119 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		6242	62417.26			0.932	
89		10125	101252.25			0.543	
205		5777	57772.39			1.190	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	6258	6232	6200	6186	6333
89	10171	10192	10087	10062	10115
205	5830	5871	5726	5738	5721

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	HMI	Nebulizer Gas	0.50 L/min	Dilution Gas	0.45 L/min
RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.80 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	10.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	-6.0 V	Omega Lens	11.5 V	Deflect	4.0 V
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US EPA Tune Check Report

Extract 2	-250.0 V	Cell Entrance	-50 V	Plate Bias	-60 V
Omega Bias	-115 V	Cell Exit	-70 V		
Cell Parameters					
Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	4.5 mL/min	OctP Bias	-18.0 V		
H2 Flow	---	OctP RF	200 V		
QP Parameters					
Mass Gain	123	Axis Gain	0.9993	QP Bias	-13.0 V
Mass Offset	123	Axis Offset	-0.05		
Hardware Settings					
Torch					
Torch H	0.4 mm	Torch V	0.1 mm		
EM					
Discriminator	3.9 mV	Analog HV	2168 V	Pulse HV	1119 V