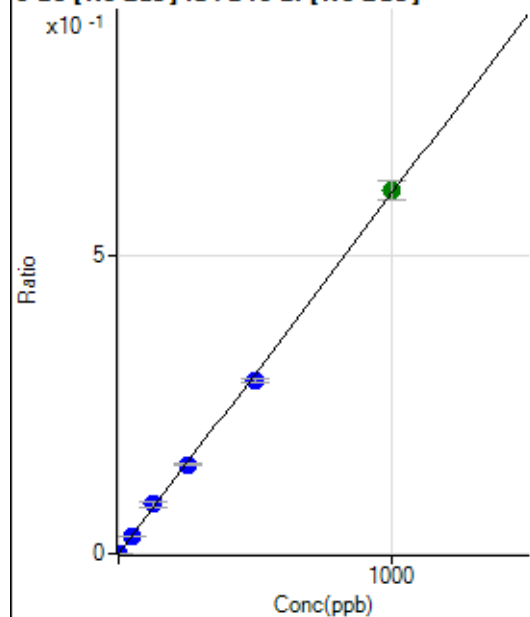


Batch Folder: D:\Agilent\ICPMH\1\DATA\P8122221MS.b\
Analysis File: P8122221MS.batch.bin
DA Date-Time: 2021-12-22 17:23:53
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	005CALB.d	S00	2021-12-22 15:59:28
2	007CALS.d	S02	2021-12-22 16:05:39
3	008CALS.d	S03	2021-12-22 16:08:45
4	009CALS.d	S04	2021-12-22 16:11:49
5	010CALS.d	S05	2021-12-22 16:14:54
6	011CALS.d	S06	2021-12-22 16:17:57
7	012CALS.d	S07	2021-12-22 16:21:03
8	013CALS.d	S08	2021-12-22 16:24:06

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	32.66	0.0000	P	24.2
2	☐	1.000	0.995	1228.48	0.0006	P	4.8
3	☐	50.000	50.109	61061.75	0.0303	P	1.8
4	☐	125.000	137.826	152169.30	0.0833	P	10.6
5	☐	250.000	247.690	307807.47	0.1497	P	3.1
6	☐	500.000	481.541	611587.44	0.2911	P	2.6
7	☐	1000.000	1008.198	1302811.49	0.6095	A	5.3
8	☐			407.26	0.0002	P	18.5

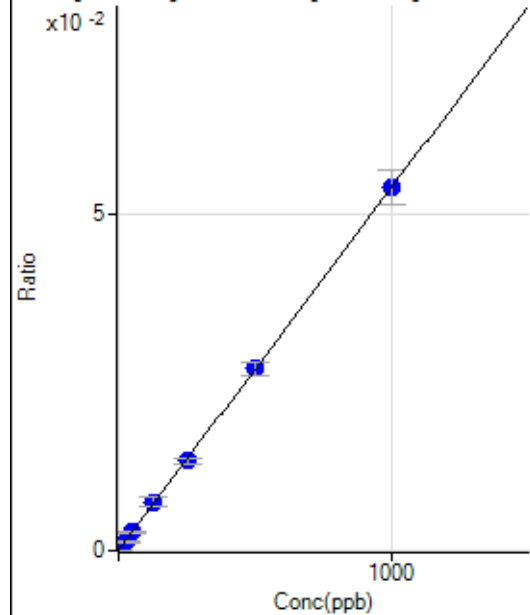
$$y = 6.0451\text{E-}004 * x + 1.6424\text{E-}005$$

$$R = 0.9996$$

$$DL = 0.01973$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	111.98	0.0001	P	18.2
2	☐	25.000	23.509	2629.73	0.0013	P	8.9
3	☐	50.000	49.519	5487.29	0.0027	P	8.9
4	☐	125.000	133.634	13218.77	0.0073	P	17.1
5	☐	250.000	246.802	27451.06	0.0134	P	7.4
6	☐	500.000	501.015	56819.94	0.0271	P	7.9
7	☐	1000.000	999.274	115088.22	0.0539	P	9.7
8	☐			16510.07	0.0083	P	2.6

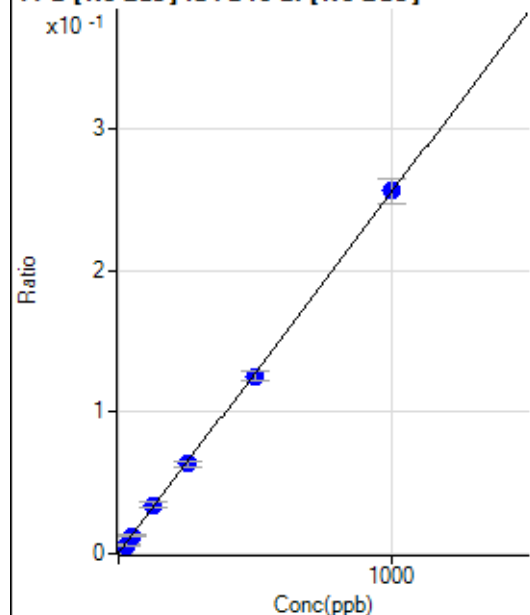
$$y = 5.3893\text{E-}005 * x + 5.6441\text{E-}005$$

$$R = 0.9999$$

$$DL = 0.5732$$

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	519.91	0.0003	P	2.2
2	☐	25.000	22.937	12144.03	0.0061	P	7.5
3	☐	50.000	48.784	25579.34	0.0127	P	7.8
4	☐	125.000	133.545	62639.16	0.0343	P	12.7
5	☐	250.000	247.625	130321.03	0.0634	P	5.9
6	☐	500.000	491.402	263770.26	0.1256	P	5.6
7	☐	1000.000	1003.937	547431.76	0.2563	P	7.1
8	☐			75981.56	0.0382	P	1.9

$$y = 2.5502E-004 * x + 2.6173E-004$$

$$R = 0.9999$$

$$DL = 0.06848$$

Weight: <None>

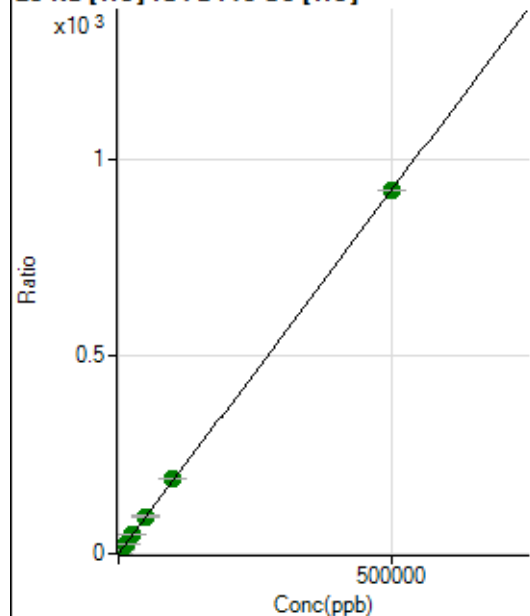
Min Conc: 0

12 C [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			4546112.73		A	2.7
2	☐			4559791.90		A	0.3
3	☐			5305886.92		A	1.7
4	☐			5658920.05		A	2.8
5	☐			5917226.78		A	2.6
6	☐			6724450.89		A	2.0
7	☐			7607066.23		A	4.1
8	☐			6311739.29		A	1.1

12 C [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			50696.74		P	1.0
2	☐			50167.09		P	2.3
3	☐			61582.70		P	0.2
4	☐			65446.58		P	1.2
5	☐			71092.22		P	1.4
6	☐			78426.85		P	4.0
7	☐			93129.12		P	1.6
8	☐			72331.16		P	2.9

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	15647.62	0.1279	P	4.6
2	☐	500.000	473.054	121917.03	0.9981	P	0.8
3	☐	5000.000	5473.236	1193060.23	10.1958	A	4.9
4	☐	12500.000	13040.388	2882387.00	24.1154	A	0.6
5	☐	25000.000	26450.984	5878346.05	48.7838	A	0.6
6	☐	50000.000	51352.809	11432209.98	94.5900	A	1.4
7	☐	100000.00	102804.57	22856284.88	189.2341	A	1.1
8	☐	500000.00	499213.04	102536312.0	918.4165	A	0.1

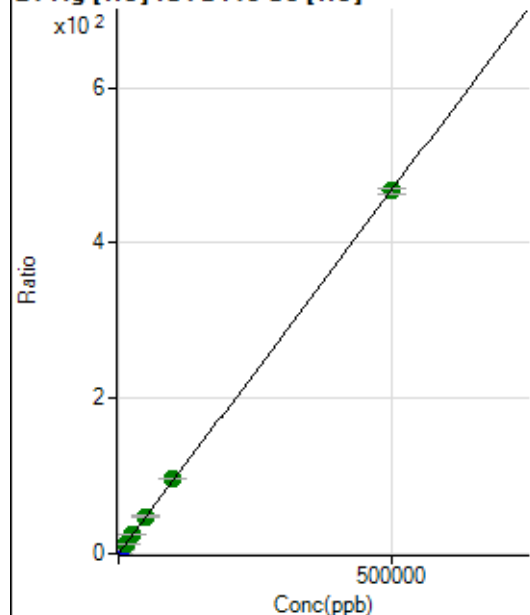
$$y = 0.0018 * x + 0.1279$$

$$R = 1.0000$$

$$DL = 9.66$$

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	669.48	0.0055	P	11.2
2	☐	500.000	470.951	54511.49	0.4463	P	2.0
3	☐	5000.000	5489.711	601701.06	5.1436	P	5.8
4	☐	12500.000	13433.540	1503138.01	12.5787	A	3.5
5	☐	25000.000	26462.840	2985174.37	24.7736	A	0.6
6	☐	50000.000	51531.239	5830627.34	48.2366	A	1.2
7	☐	100000.00	102677.66	11608505.73	96.1075	A	0.6
8	☐	500000.00	499209.99	52164969.22	467.2455	A	1.6

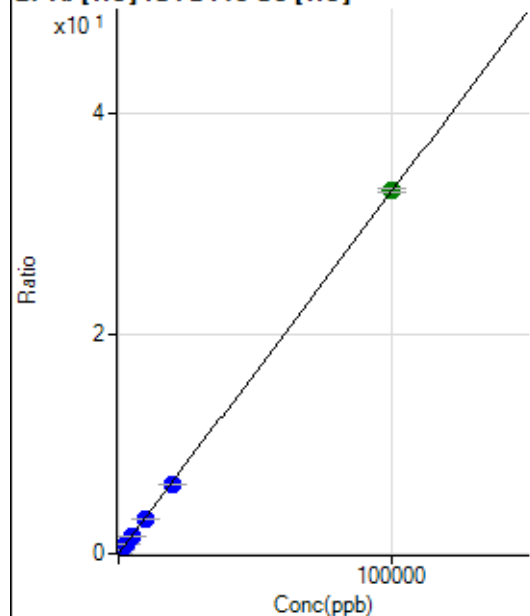
$$y = 9.3596\text{E-}004 * x + 0.0055$$

$$R = 1.0000$$

$$DL = 1.966$$

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	99.99	0.0008	P	6.7
2	☐	20.000	18.023	824.51	0.0068	P	8.6
3	☐	1000.000	1025.575	39582.75	0.3387	P	7.7
4	☐	2500.000	2479.457	97725.10	0.8177	P	1.3
5	☐	5000.000	4895.207	194404.57	1.6135	P	0.9
6	☐	10000.000	9601.022	382398.54	3.1638	P	0.8
7	☐	20000.000	19123.646	761060.67	6.3009	P	0.2
8	☐	100000.00	100220.66	3686284.56	33.0176	A	0.9

$$y = 3.2944\text{E-}004 * x + 8.1688\text{E-}004$$

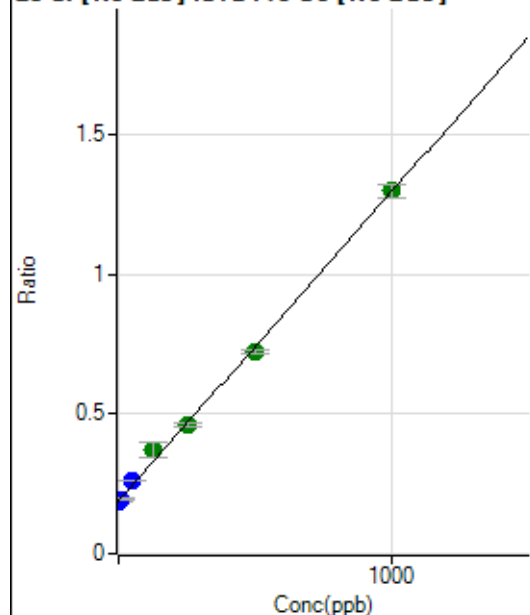
$$R = 1.0000$$

$$DL = 0.4956$$

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	647621.99	0.1884	P	1.8
2	☐	10.000	6.943	692705.35	0.1961	P	0.7
3	☐	50.000	66.443	913370.49	0.2620	P	1.3
4	☐	125.000	167.038	1146128.05	0.3734	A	15.2
5	☐	250.000	246.273	1615529.49	0.4612	A	1.8
6	☐	500.000	485.049	2604363.88	0.7257	A	1.9
7	☐	1000.000	1002.361	4637538.21	1.2988	A	3.9
8	☐			1484604.52	0.4400	A	1.8

$$y = 0.0011 * x + 0.1884$$

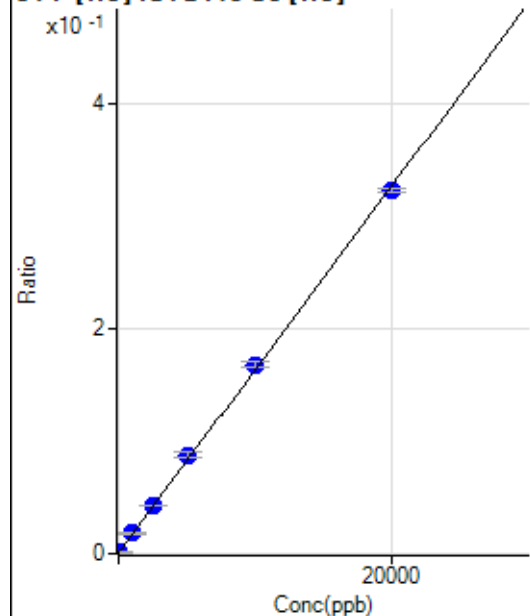
$$R = 0.9988$$

$$DL = 9.195$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	-10.477	63.89	0.0005	P	27.8
2	☐	0.000	10.477	105.56	0.0009	P	20.0
3	☐	1000.000	1079.825	2136.33	0.0183	P	10.3
4	☐	2500.000	2581.031	5109.40	0.0427	P	2.4
5	☐	5000.000	5361.107	10604.19	0.0880	P	6.0
6	☐	10000.000	10282.212	20331.42	0.1682	P	2.8
7	☐	20000.000	19754.497	38958.82	0.3226	P	1.1
8	☐			105.56	0.0009	P	17.0

$$y = 1.6293E-005 * x + 6.9353E-004$$

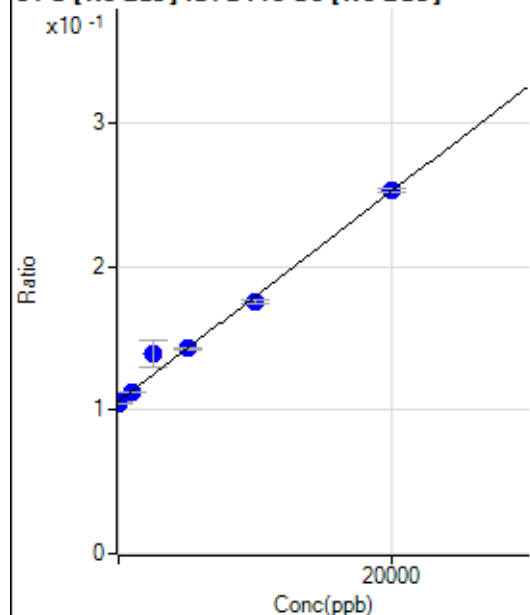
$$R = 0.9997$$

$$DL = 29.3$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	196.532	370300.29	0.1077	P	2.2
2	☐	0.000	-196.532	370388.52	0.1048	P	0.4
3	☐	1000.000	910.523	393793.11	0.1129	P	0.3
4	☐	2500.000	4507.671	428207.85	0.1393	P	13.6
5	☐	5000.000	5001.133	500721.49	0.1429	P	1.4
6	☐	10000.000	9460.824	629949.73	0.1756	P	2.1
7	☐	20000.000	20022.820	903105.68	0.2530	P	0.9
8	☐			342039.45	0.1014	P	2.1

$$y = 7.3303\text{E-}006 * x + 0.1063$$

R = 0.9936

DL = 578.5

Weight: <None>

Min Conc: 0

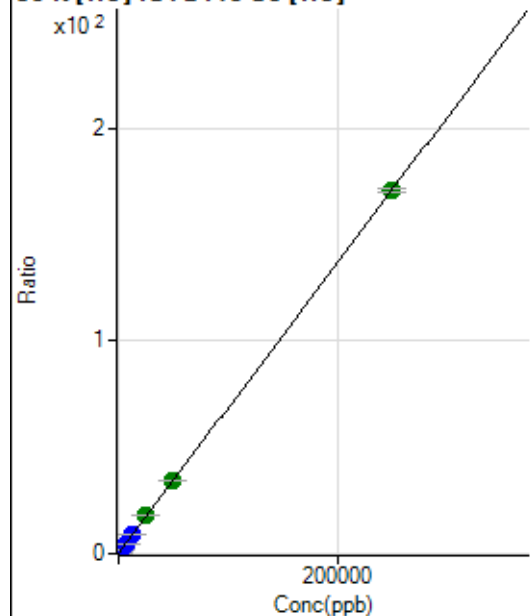
35 Cl [No Gas] No available calibration points



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			296553.96		P	0.2
2	☐			282333.25		P	0.9
3	☐			326535.29		P	0.6
4	☐			304282.35		P	1.1
5	☐			305297.29		P	1.3
6	☐			305763.15		P	1.3
7	☐			318968.83		P	0.7
8	☐			303361.61		P	1.0

35 Cl [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2027.98		P	10.0
2	☐			2125.22		P	3.7
3	☐			2266.92		P	8.1
4	☐			2097.43		P	6.8
5	☐			2139.11		P	5.7
6	☐			2005.75		P	4.6
7	☐			2064.10		P	4.0
8	☐			2044.65		P	5.9

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	17616.66	0.1440	P	3.0
2	☐	500.000	469.442	56681.68	0.4640	P	0.6
3	☐	2500.000	2748.476	236005.24	2.0177	P	6.5
4	☐	6250.000	6612.420	556005.90	4.6519	P	2.2
5	☐	12500.000	12864.750	1074057.92	8.9143	P	0.9
6	☐	25000.000	25949.790	2156040.63	17.8347	A	2.0
7	☐	50000.000	49850.863	4122164.41	34.1287	A	1.0
8	☐	250000.00	249905.12	19037213.62	170.5112	A	1.0

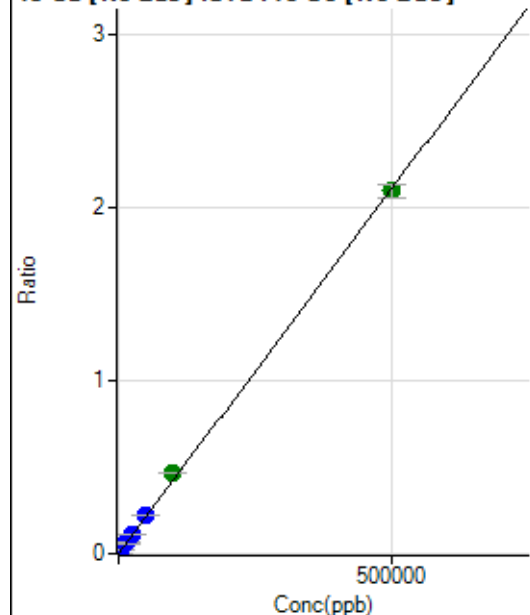
$$y = 6.8173E-004 * x + 0.1440$$

$$R = 1.0000$$

$$DL = 18.89$$

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	178.31	0.0001	P	10.3
2	☐	500.000	457.624	7006.27	0.0020	P	0.3
3	☐	5000.000	5359.730	79034.84	0.0227	P	1.1
4	☐	12500.000	15262.236	197827.31	0.0645	P	15.2
5	☐	25000.000	26603.366	393370.30	0.1123	P	2.6
6	☐	50000.000	52254.906	791284.11	0.2206	P	0.8
7	☐	100000.00	110880.68	1670222.46	0.4680	A	1.8
8	☐	500000.00	497445.59	7080836.47	2.0992	A	3.6

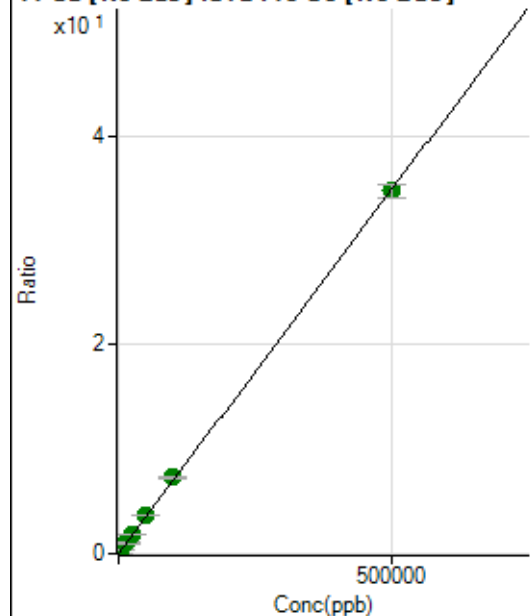
$$y = 4.2199\text{E-}006 * x + 5.1925\text{E-}005$$

$$R = 0.9997$$

$$DL = 3.813$$

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	16946.24	0.0049	P	1.1
2	☐	500.000	456.513	129861.53	0.0368	P	0.4
3	☐	5000.000	5401.216	1330002.18	0.3815	A	3.2
4	☐	12500.000	15532.890	3340330.25	1.0879	A	14.7
5	☐	25000.000	26360.016	6454511.48	1.8427	A	1.9
6	☐	50000.000	52967.900	13265077.72	3.6978	A	1.2
7	☐	100000.00	105402.93	26242778.86	7.3534	A	2.5
8	☐	500000.00	498474.83	117233531.0	34.7577	A	4.0

$$y = 6.9718\text{E-}005 * x + 0.0049$$

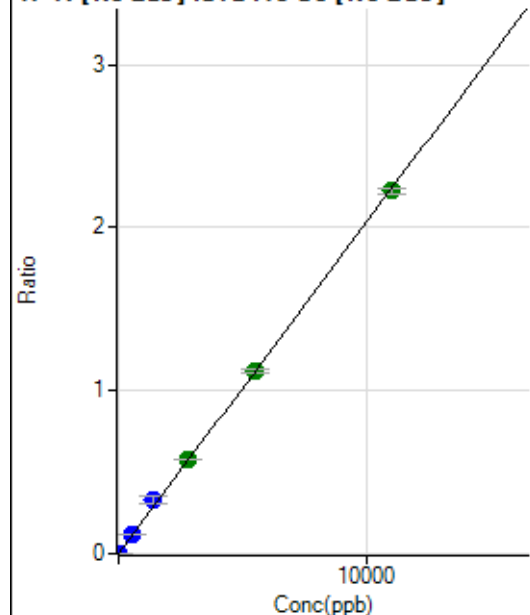
$$R = 0.9999$$

$$DL = 2.33$$

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	161.12	0.0000	P	19.7
2	☐	5.000	4.632	3494.95	0.0010	P	5.8
3	☐	550.000	573.873	407186.74	0.1168	P	1.6
4	☐	1375.000	1611.711	1005425.12	0.3279	P	16.3
5	☐	2750.000	2844.494	2027723.70	0.5787	A	1.0
6	☐	5500.000	5523.012	4030906.47	1.1236	A	1.7
7	☐	11000.000	10934.088	7938544.19	2.2244	A	1.4
8	☐			1817.03	0.0005	P	28.0

$$y = 2.0343\text{E-}004 * x + 4.6860\text{E-}005$$

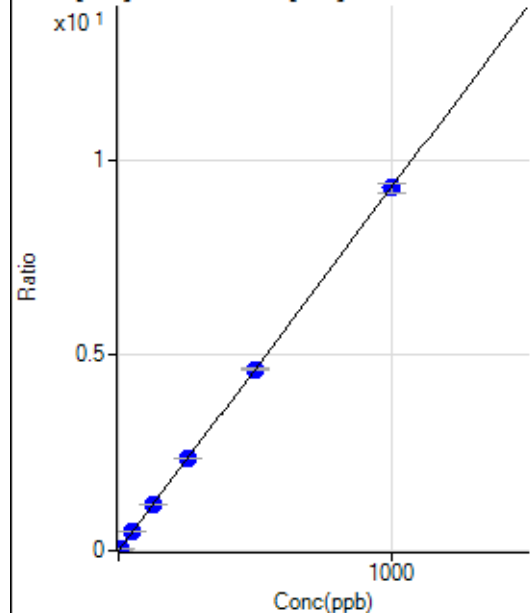
$$R = 0.9998$$

$$DL = 0.1364$$

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	7.78	0.0001	P	64.6
2	☐	5.000	4.916	5592.26	0.0458	P	2.7
3	☐	50.000	53.126	57731.73	0.4940	P	8.8
4	☐	125.000	127.384	141567.52	1.1844	P	0.8
5	☐	250.000	254.672	285296.53	2.3679	P	1.2
6	☐	500.000	499.350	561153.50	4.6429	P	1.2
7	☐	1000.000	998.703	1121517.85	9.2857	P	2.4
8	☐			215.56	0.0019	P	22.9

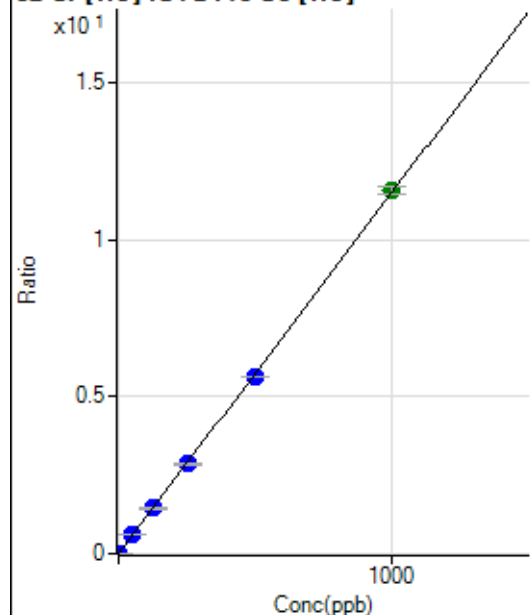
$$y = 0.0093 * x + 6.3329\text{E-}005$$

$$R = 1.0000$$

$$DL = 0.0132$$

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	553.35	0.0045	P	13.6
2	☐	2.000	1.908	3229.28	0.0264	P	0.8
3	☐	50.000	52.164	70582.40	0.6036	P	6.6
4	☐	125.000	125.508	172819.51	1.4460	P	1.3
5	☐	250.000	247.754	343380.30	2.8500	P	0.9
6	☐	500.000	490.469	681480.54	5.6375	P	0.7
7	☐	1000.000	1005.155	1394857.53	11.5487	A	2.1
8	☐			2674.73	0.0240	P	3.2

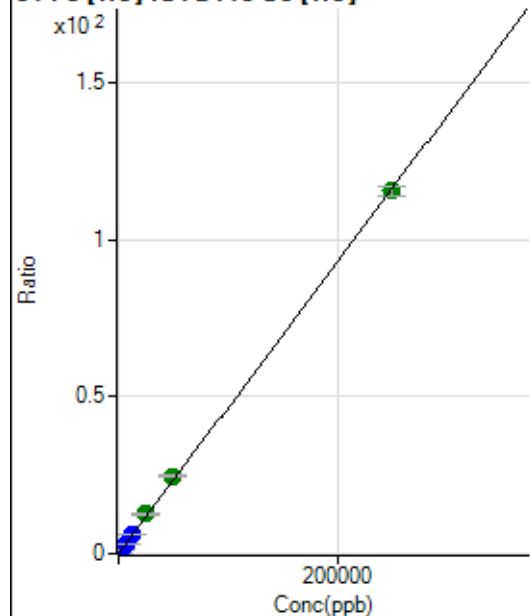
$$y = 0.0115 * x + 0.0045$$

$$R = 0.9999$$

$$DL = 0.1604$$

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	431.50	0.0035	P	4.1
2	☐	50.000	50.772	3309.71	0.0271	P	3.2
3	☐	2500.000	2813.208	153170.93	1.3095	P	6.1
4	☐	6250.000	6703.401	372368.77	3.1155	P	1.6
5	☐	12500.000	13250.764	741572.73	6.1551	P	2.0
6	☐	25000.000	27287.510	1531497.88	12.6716	A	1.8
7	☐	50000.000	53325.639	2990473.74	24.7596	A	1.8
8	☐	250000.00	249054.11	12909674.13	115.6251	A	2.5

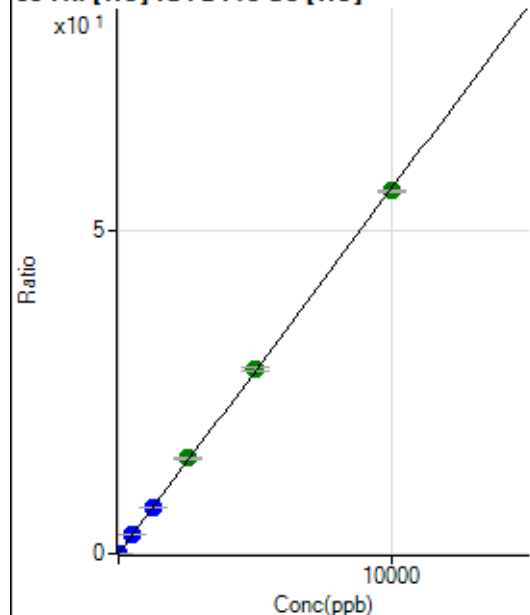
$$y = 4.6424E-004 * x + 0.0035$$

$$R = 0.9999$$

$$DL = 0.9329$$

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	73.33	0.0006	P	19.3
2	☐	1.000	0.936	718.91	0.0059	P	4.1
3	☐	500.000	523.392	345594.42	2.9565	P	7.6
4	☐	1250.000	1276.041	861358.12	7.2071	P	1.5
5	☐	2500.000	2615.501	1779685.37	14.7717	A	2.0
6	☐	5000.000	5060.679	3454772.59	28.5809	A	1.2
7	☐	10000.000	9936.360	6778009.83	56.1164	A	0.9
8	☐			3423.78	0.0307	P	4.6

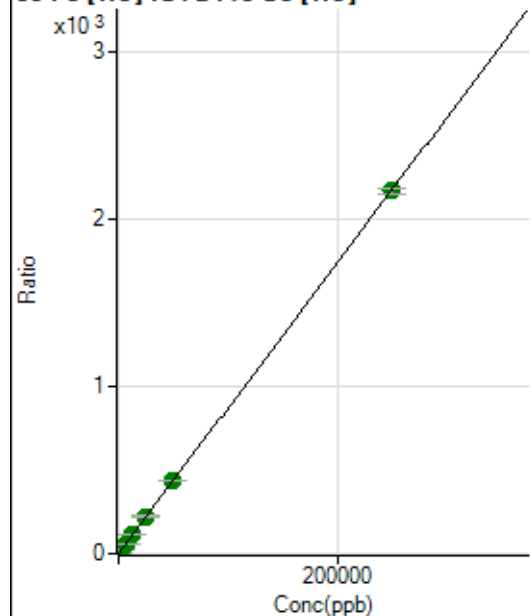
$$y = 0.0056 * x + 5.9891E-004$$

$$R = 0.9999$$

$$DL = 0.06137$$

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	2679.92	0.0219	P	4.4
2	☐	50.000	46.508	52017.26	0.4259	P	0.8
3	☐	2500.000	2720.249	2765304.55	23.6506	A	6.5
4	☐	6250.000	6620.941	6876764.74	57.5329	A	1.4
5	☐	12500.000	13233.048	13851826.70	114.9671	A	1.1
6	☐	25000.000	25655.540	26939786.25	222.8717	A	1.6
7	☐	50000.000	50493.946	52979695.63	438.6237	A	0.6
8	☐	250000.00	249787.52	242250083.1	2,169.732	A	1.6

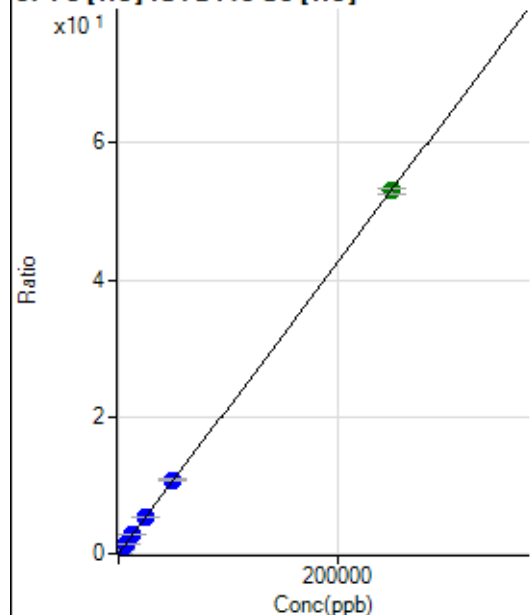
$$y = 0.0087 * x + 0.0219$$

$$R = 1.0000$$

$$DL = 0.3297$$

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	218.52	0.0018	P	27.5
2	☐	50.000	49.929	1513.07	0.0124	P	4.1
3	☐	2500.000	2752.706	68529.60	0.5860	P	6.1
4	☐	6250.000	6516.436	165513.59	1.3847	P	0.7
5	☐	12500.000	13070.814	334438.50	2.7758	P	1.0
6	☐	25000.000	25516.622	654854.82	5.4171	P	1.1
7	☐	50000.000	50879.313	1304432.96	10.7997	P	0.5
8	☐	250000.00	249734.74	5917621.54	53.0021	A	1.7

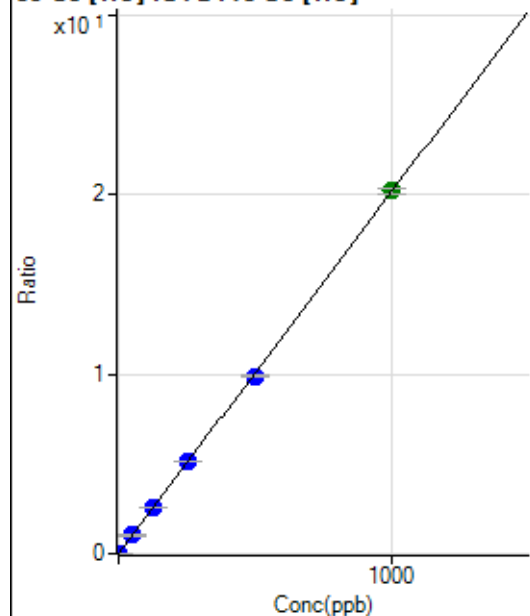
$$y = 2.1223\text{E-}004 * x + 0.0018$$

$$R = 1.0000$$

$$DL = 6.958$$

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	55.56	0.0005	P	33.7
2	☐	1.000	0.946	2380.22	0.0195	P	5.4
3	☐	50.000	52.372	123333.88	1.0550	P	7.3
4	☐	125.000	127.064	305834.88	2.5589	P	1.2
5	☐	250.000	253.328	614655.40	5.1012	P	0.4
6	☐	500.000	491.355	1195867.74	9.8939	P	0.7
7	☐	1000.000	1003.114	2439602.62	20.1981	A	1.8
8	☐			2957.00	0.0265	P	3.4

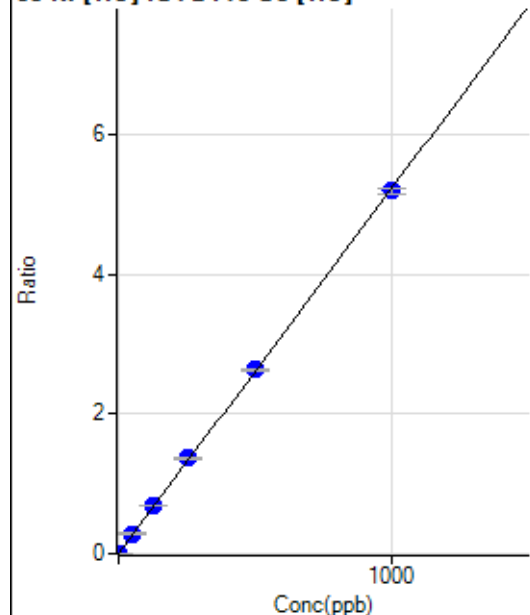
$$y = 0.0201 * x + 4.5486\text{E-}004$$

$$R = 0.9999$$

$$DL = 0.02281$$

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	0.0005	P	13.0
2	☐	1.000	1.014	711.14	0.0058	P	13.6
3	☐	50.000	54.552	33457.21	0.2860	P	5.6
4	☐	125.000	131.651	82407.54	0.6895	P	1.2
5	☐	250.000	260.985	164626.86	1.3663	P	0.7
6	☐	500.000	504.125	318933.66	2.6388	P	1.2
7	☐	1000.000	994.133	628441.43	5.2032	P	1.7
8	☐			840.03	0.0075	P	2.5

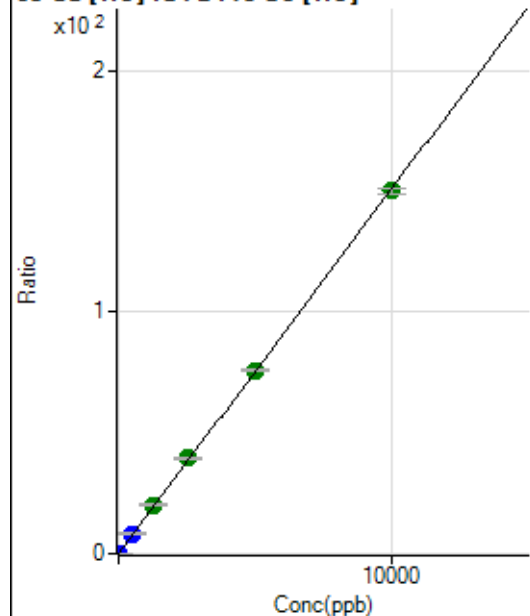
$$y = 0.0052 * x + 5.1721E-004$$

$$R = 0.9999$$

$$DL = 0.03844$$

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	351.12	0.0029	P	4.7
2	☐	2.000	1.909	3870.58	0.0317	P	3.2
3	☐	500.000	542.646	958576.90	8.1953	P	5.9
4	☐	1250.000	1341.507	2420661.44	20.2558	A	3.3
5	☐	2500.000	2614.007	4755392.81	39.4670	A	1.1
6	☐	5000.000	5017.069	9155316.11	75.7465	A	0.8
7	☐	10000.000	9949.393	18142546.95	150.2107	A	1.7
8	☐			3680.52	0.0330	P	5.9

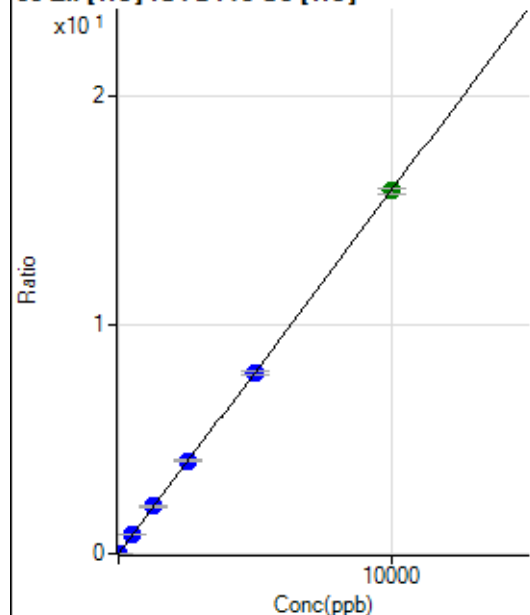
$$y = 0.0151 * x + 0.0029$$

$$R = 0.9999$$

$$DL = 0.02696$$

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	93.33	0.0008	P	6.3
2	☐	2.000	1.970	475.57	0.0039	P	6.7
3	☐	500.000	537.442	99991.42	0.8549	P	6.5
4	☐	1250.000	1298.318	246703.81	2.0642	P	1.9
5	☐	2500.000	2561.395	490598.35	4.0717	P	1.3
6	☐	5000.000	4986.342	957958.55	7.9258	P	1.6
7	☐	10000.000	9983.568	1916582.13	15.8682	A	1.5
8	☐			2070.18	0.0185	P	2.0

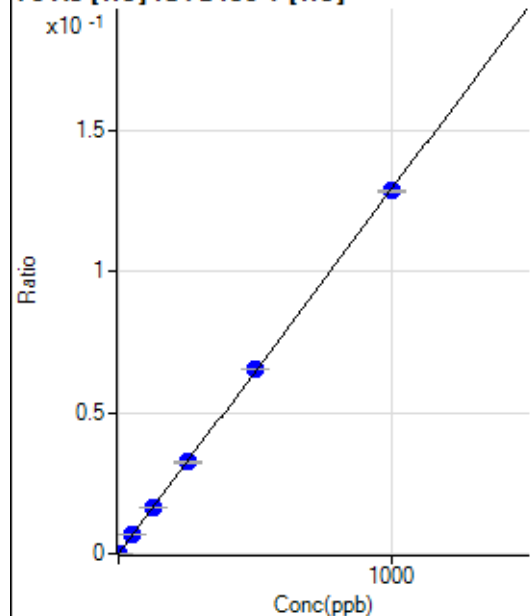
$$y = 0.0016 * x + 7.6255E-004$$

$$R = 1.0000$$

$$DL = 0.09111$$

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	3.33	0.0000	P	63.5
2	☐	1.000	1.004	127.68	0.0001	P	9.8
3	☐	50.000	52.499	6197.33	0.0068	P	7.3
4	☐	125.000	128.229	15545.09	0.0165	P	1.2
5	☐	250.000	250.964	30599.05	0.0324	P	0.8
6	☐	500.000	506.862	60233.90	0.0654	P	0.4
7	☐	1000.000	995.799	118515.80	0.1285	P	0.7
8	☐			33.33	0.0000	P	17.3

$$y = 1.2901E-004 * x + 3.4870E-006$$

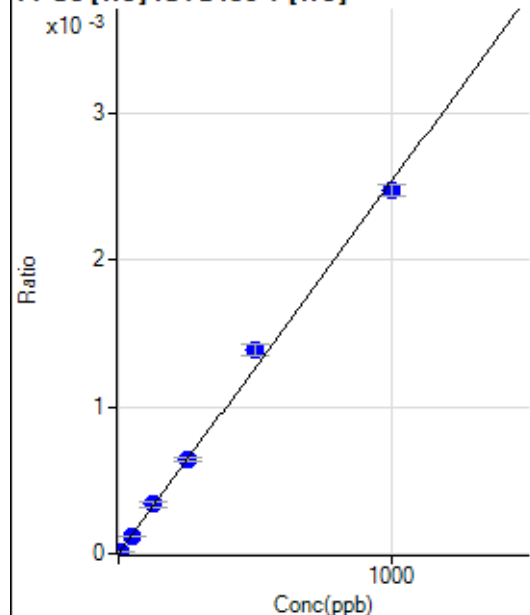
$$R = 1.0000$$

$$DL = 0.05148$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	0.00	0.0000	P	
2	☐	5.000	5.486	13.33	0.0000	P	25.6
3	☐	50.000	46.410	107.78	0.0001	P	3.3
4	☐	125.000	134.003	318.90	0.0003	P	12.0
5	☐	250.000	251.176	601.13	0.0006	P	4.0
6	☐	500.000	546.724	1275.63	0.0014	P	5.7
7	☐	1000.000	975.395	2279.10	0.0025	P	3.1
8	☐			1.11	0.0000	P	173.

$$y = 2.5329\text{E-}006 * x + 0.0000\text{E+}000$$

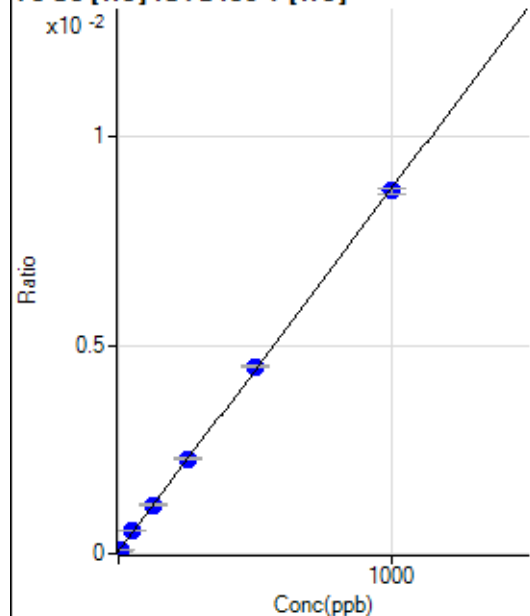
$$R = 0.9983$$

$$DL = 0$$

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	57.34	0.0001	P	7.9
2	☐	5.000	4.657	96.01	0.0001	P	6.3
3	☐	50.000	55.287	495.39	0.0005	P	3.1
4	☐	125.000	127.933	1101.82	0.0012	P	5.7
5	☐	250.000	254.866	2152.05	0.0023	P	1.8
6	☐	500.000	509.200	4136.37	0.0045	P	1.0
7	☐	1000.000	993.554	8030.77	0.0087	P	1.3
8	☐			56.68	0.0001	P	6.8

$$y = 8.7025\text{E-}006 * x + 5.9374\text{E-}005$$

$$R = 0.9999$$

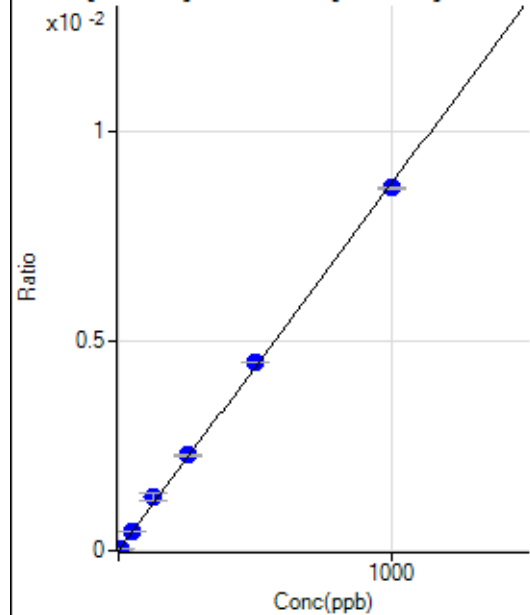
$$DL = 1.624$$

Weight: <None>

Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			17609.39		P	4.5
2	☐			17545.76		P	4.0
3	☐			17408.85		P	2.8
4	☐			16871.12		P	5.4
5	☐			17462.31		P	5.2
6	☐			16349.76		P	3.3
7	☐			15688.33		P	3.7
8	☐			16874.41		P	4.9

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	35.11	0.0000	P	152.
2	☐	5.000	4.447	370.03	0.0000	P	17.7
3	☐	50.000	52.264	3919.73	0.0005	P	3.2
4	☐	125.000	146.646	9699.48	0.0013	P	15.7
5	☐	250.000	261.161	19239.26	0.0023	P	2.3
6	☐	500.000	511.916	38476.44	0.0045	P	0.5
7	☐	1000.000	988.435	75909.06	0.0086	P	0.8
8	☐			37.77	0.0000	P	315.

$$y = 8.7331E-006 * x + 4.1620E-006$$

$$R = 0.9996$$

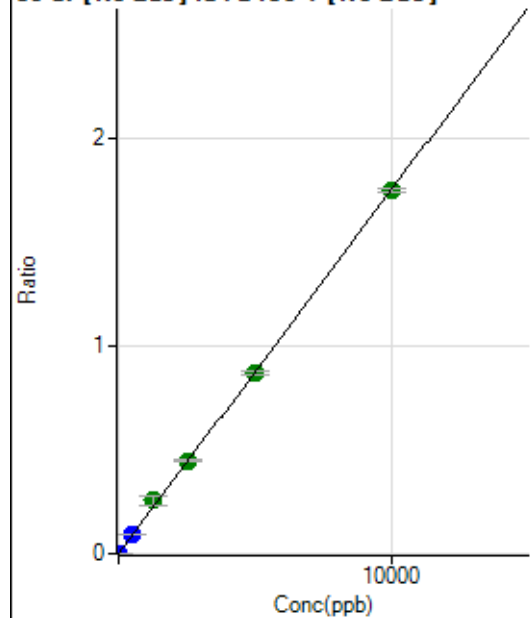
$$DL = 2.186$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1072.27		P	5.1
2	☐			1116.72		P	3.6
3	☐			1076.72		P	2.2
4	☐			1184.51		P	4.7
5	☐			1097.83		P	4.2
6	☐			1201.18		P	4.6
7	☐			1088.94		P	5.7
8	☐			1225.62		P	5.4

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	1836.28	0.0002	P	10.7
2	☐	1.000	0.853	3181.00	0.0004	P	3.3
3	☐	500.000	507.169	758860.00	0.0892	P	1.4
4	☐	1250.000	1461.320	1936483.61	0.2566	A	16.0
5	☐	2500.000	2556.543	3777768.53	0.4487	A	2.5
6	☐	5000.000	4984.628	7521614.58	0.8746	A	1.9
7	☐	10000.000	9966.777	15369696.52	1.7486	A	1.0
8	☐			11891.68	0.0014	P	9.3

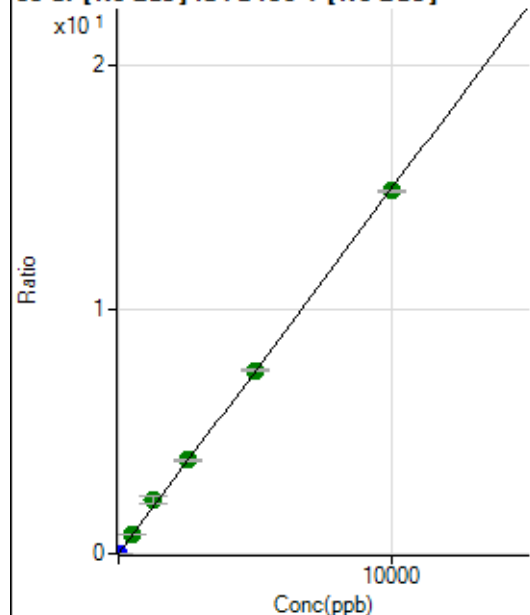
$$y = 1.7542E-004 * x + 2.1996E-004$$

$$R = 0.9998$$

$$DL = 0.4031$$

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	150.01	0.0000	P	13.3
2	☐	1.000	0.925	12044.34	0.0014	P	1.5
3	☐	500.000	513.399	6527927.97	0.7673	A	2.3
4	☐	1250.000	1461.870	16495110.96	2.1849	A	15.7
5	☐	2500.000	2568.312	32329915.30	3.8386	A	2.2
6	☐	5000.000	5031.112	64655764.64	7.5195	A	0.7
7	☐	10000.000	9940.212	130582648.7	14.8565	A	0.3
8	☐			86730.90	0.0105	P	10.8

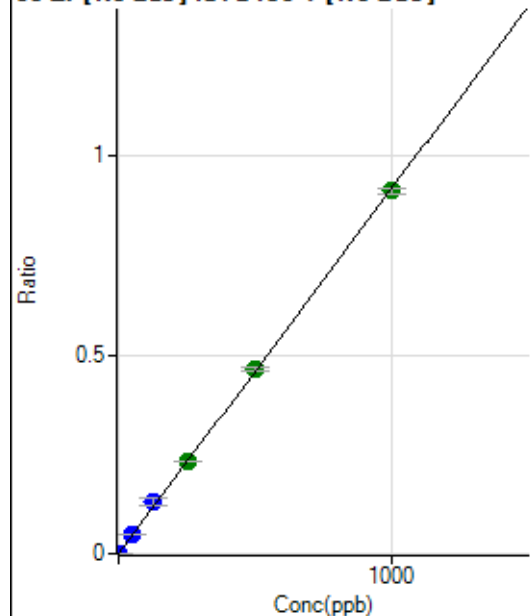
$$y = 0.0015 * x + 1.7932E-005$$

$$R = 0.9998$$

$$DL = 0.004789$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	386.13	0.0000	P	10.7
2	☐	1.000	0.899	7496.67	0.0009	P	2.8
3	☐	50.000	50.525	394948.45	0.0464	P	1.1
4	☐	125.000	143.478	995168.60	0.1317	P	15.0
5	☐	250.000	253.581	1960774.31	0.2328	A	1.1
6	☐	500.000	504.995	3986359.68	0.4636	A	2.3
7	☐	1000.000	994.271	8021936.98	0.9127	A	1.8
8	☐			4192.45	0.0005	P	9.9

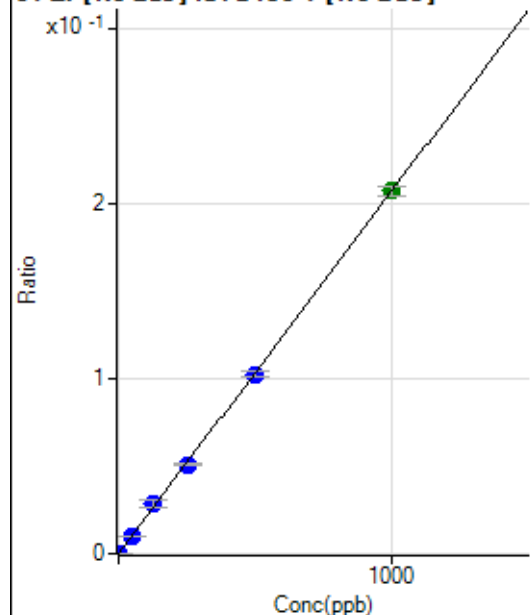
$$y = 9.1787E-004 * x + 4.6174E-005$$

$$R = 0.9998$$

$$DL = 0.01614$$

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	63.89	0.0000	P	38.4
2	☐	1.000	0.855	1589.02	0.0002	P	4.0
3	☐	50.000	49.324	86905.15	0.0102	P	2.0
4	☐	125.000	138.444	216175.74	0.0287	P	16.6
5	☐	250.000	246.079	428859.48	0.0509	P	2.8
6	☐	500.000	496.097	882884.54	0.1027	P	2.9
7	☐	1000.000	1001.285	1821445.76	0.2072	A	2.6
8	☐			897.28	0.0001	P	9.9

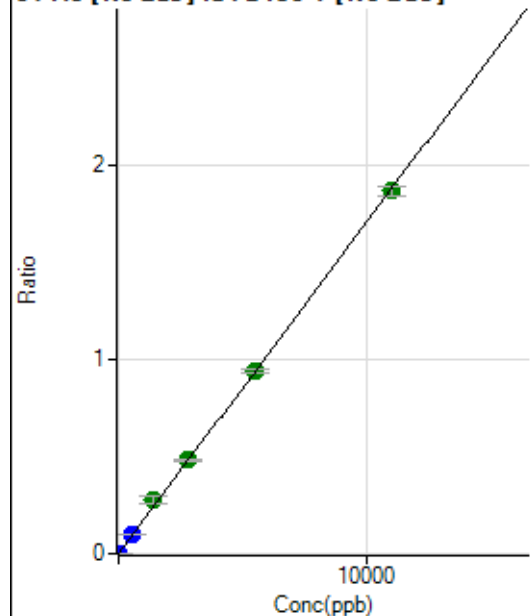
$$y = 2.0695E-004 * x + 7.6591E-006$$

$$R = 0.9999$$

$$DL = 0.04259$$

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	127.78	0.0000	P	28.0
2	☐	5.000	5.694	8511.16	0.0010	P	5.7
3	☐	550.000	574.948	836667.58	0.0983	P	0.6
4	☐	1375.000	1626.527	2098774.16	0.2781	A	16.2
5	☐	2750.000	2817.706	4056550.48	0.4818	A	2.8
6	☐	5500.000	5523.388	8120789.94	0.9445	A	1.9
7	☐	11000.000	10938.691	16440777.97	1.8705	A	2.3
8	☐			5548.72	0.0007	P	28.0

$$y = 1.7099E-004 * x + 1.5319E-005$$

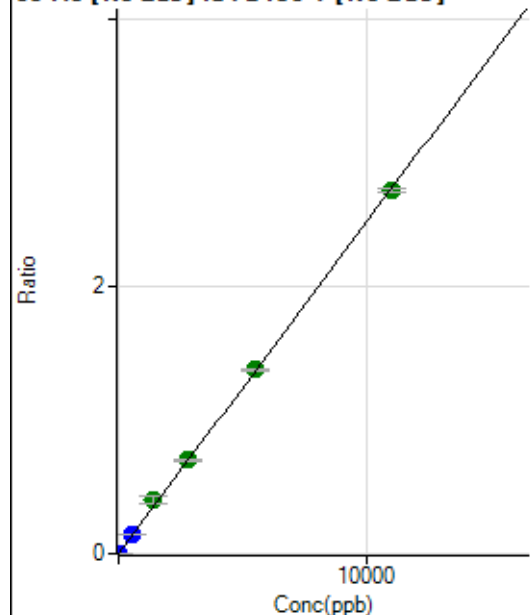
$$R = 0.9997$$

$$DL = 0.07527$$

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	16.67	0.0000	P	86.6
2	☐	5.000	4.823	10334.72	0.0012	P	2.9
3	☐	550.000	574.711	1215809.38	0.1429	P	2.1
4	☐	1375.000	1610.358	3022510.44	0.4004	A	16.0
5	☐	2750.000	2817.803	5899837.50	0.7007	A	2.3
6	☐	5500.000	5542.610	11851594.19	1.3782	A	0.7
7	☐	11000.000	10931.089	23891515.99	2.7182	A	1.1
8	☐			7158.21	0.0009	P	34.7

$$y = 2.4866E-004 * x + 1.9865E-006$$

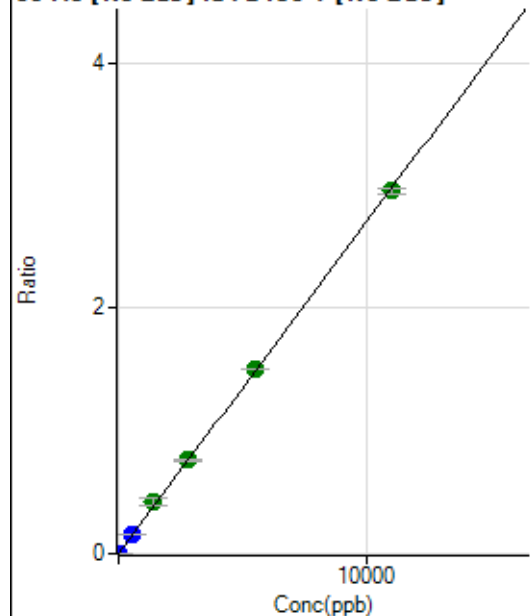
$$R = 0.9998$$

$$DL = 0.02076$$

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	119.45	0.0000	P	4.8
2	☐	5.000	4.798	11310.52	0.0013	P	0.9
3	☐	550.000	557.769	1285873.81	0.1511	P	1.5
4	☐	1375.000	1583.000	3239061.53	0.4289	A	15.4
5	☐	2750.000	2811.581	6414196.89	0.7618	A	3.5
6	☐	5500.000	5572.248	12982269.39	1.5098	A	0.3
7	☐	11000.000	10922.093	26011756.83	2.9594	A	1.8
8	☐			11858.26	0.0014	P	12.6

$$y = 2.7095E-004 * x + 1.4299E-005$$

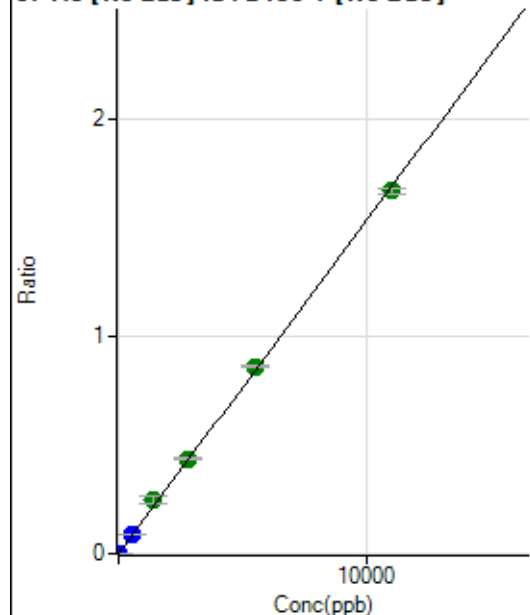
$$R = 0.9998$$

$$DL = 0.007603$$

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	27.78	0.0000	P	46.4
2	☐	5.000	4.850	6435.02	0.0007	P	2.8
3	☐	550.000	566.354	739759.89	0.0870	P	1.8
4	☐	1375.000	1619.742	1878599.74	0.2487	A	15.1
5	☐	2750.000	2850.869	3685232.20	0.4377	A	2.6
6	☐	5500.000	5621.031	7420183.67	0.8630	A	0.7
7	☐	11000.000	10882.857	14685090.26	1.6708	A	1.7
8	☐			4337.67	0.0005	P	17.3

$$y = 1.5352E-004 * x + 3.3283E-006$$

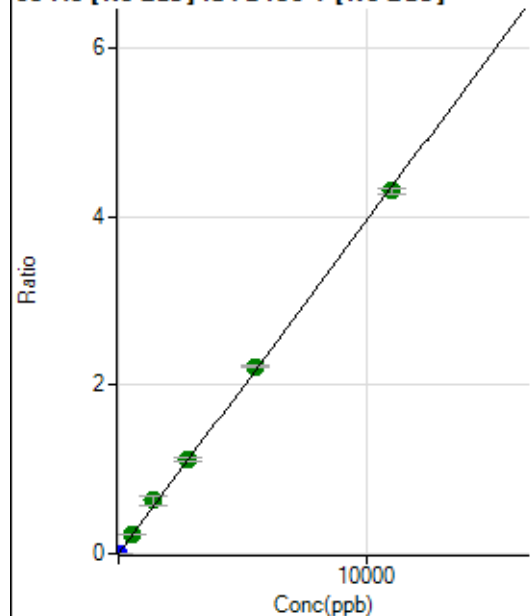
$$R = 0.9996$$

$$DL = 0.03021$$

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	36.11	0.0000	P	26.2
2	☐	5.000	4.714	16079.19	0.0019	P	1.9
3	☐	550.000	571.408	1922497.98	0.2260	A	2.6
4	☐	1375.000	1600.953	4777102.84	0.6331	A	16.3
5	☐	2750.000	2836.460	9443994.74	1.1217	A	2.6
6	☐	5500.000	5620.306	19111384.11	2.2226	A	1.6
7	☐	11000.000	10888.917	37848531.40	4.3061	A	1.9
8	☐			10321.29	0.0013	P	24.0

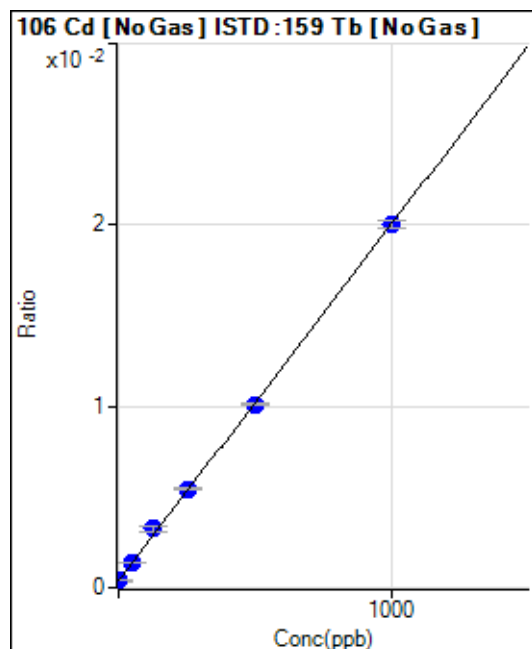
$$y = 3.9546E-004 * x + 4.3178E-006$$

$$R = 0.9997$$

$$DL = 0.00858$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	1883.50	0.0004	P	3.4
2	☐	1.000	1.113	2014.10	0.0004	P	10.7
3	☐	50.000	52.580	7229.87	0.0014	P	0.9
4	☐	125.000	145.869	14727.71	0.0032	P	12.3
5	☐	250.000	258.093	27837.12	0.0055	P	0.9
6	☐	500.000	494.862	53730.45	0.0101	P	1.3
7	☐	1000.000	997.808	108020.77	0.0200	P	2.2
8	☐			1883.52	0.0004	P	16.7

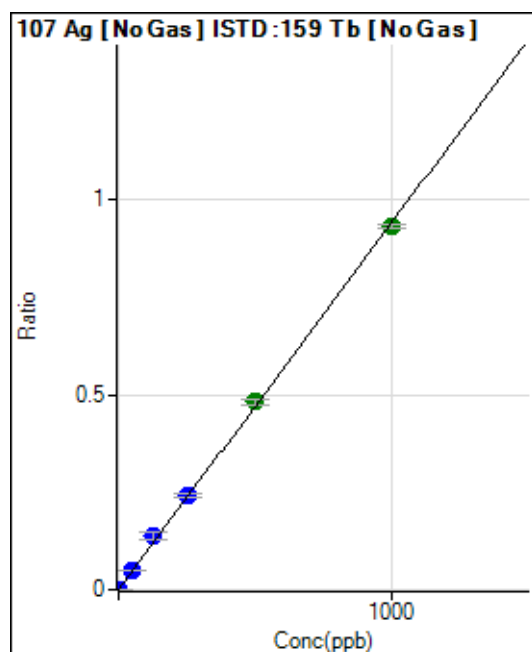
$$y = 1.9669\text{E-}005 * x + 3.7471\text{E-}004$$

$$R = 0.9997$$

$$DL = 1.958$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	44.44	0.0000	P	39.1
2	☐	1.000	1.006	4862.09	0.0010	P	1.5
3	☐	50.000	52.188	252211.40	0.0491	P	2.8
4	☐	125.000	148.289	633088.21	0.1396	P	14.0
5	☐	250.000	256.876	1235067.00	0.2419	P	2.1
6	☐	500.000	512.181	2563407.93	0.4823	A	2.5
7	☐	1000.000	989.170	5031453.80	0.9314	A	1.0
8	☐			1866.85	0.0004	P	18.7

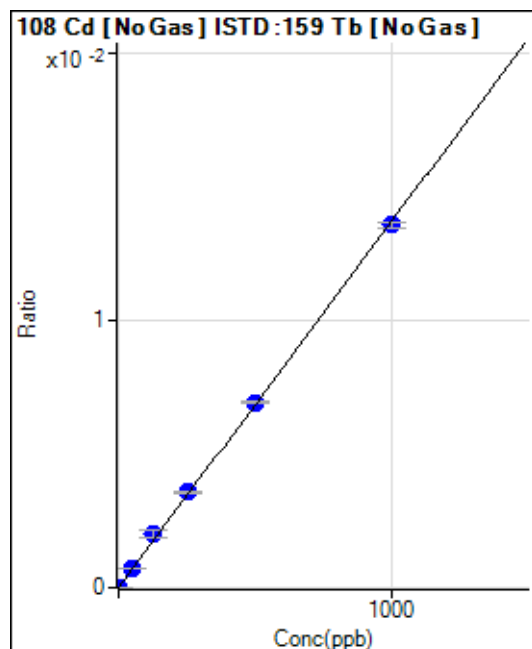
$$y = 9.4159\text{E-}004 * x + 8.8289\text{E-}006$$

$$R = 0.9996$$

$$DL = 0.011$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	20.83	0.0000	P	33.6
2	☐	1.000	1.013	91.67	0.0000	P	7.4
3	☐	50.000	52.148	3688.04	0.0007	P	3.4
4	☐	125.000	148.688	9260.18	0.0020	P	13.4
5	☐	250.000	260.333	18237.22	0.0036	P	1.3
6	☐	500.000	506.501	36916.26	0.0069	P	0.9
7	☐	1000.000	991.098	73388.77	0.0136	P	1.4
8	☐			93.06	0.0000	P	20.2

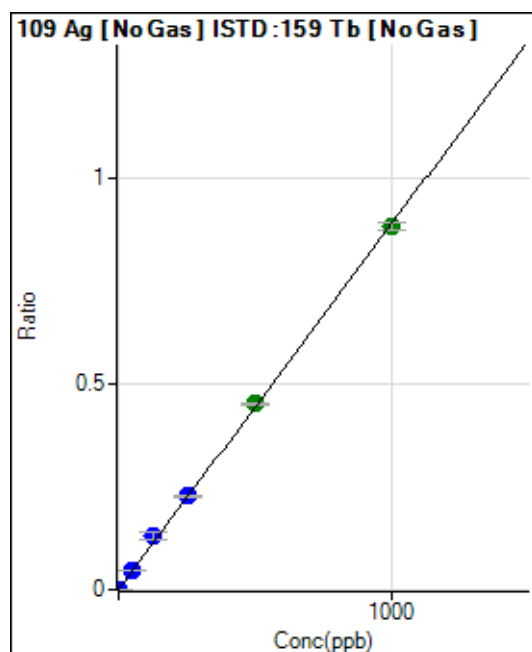
$$y = 1.3702\text{E-}005 * x + 4.1301\text{E-}006$$

$$R = 0.9997$$

$$DL = 0.3035$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	33.33	0.0000	P	65.0
2	☐	1.000	0.964	4398.06	0.0009	P	6.4
3	☐	50.000	51.843	236798.48	0.0461	P	0.7
4	☐	125.000	146.268	589289.88	0.1302	P	15.8
5	☐	250.000	255.198	1159816.04	0.2271	P	1.1
6	☐	500.000	508.127	2403814.88	0.4522	A	1.4
7	☐	1000.000	991.887	4767650.24	0.8827	A	2.3
8	☐			1847.41	0.0004	P	24.3

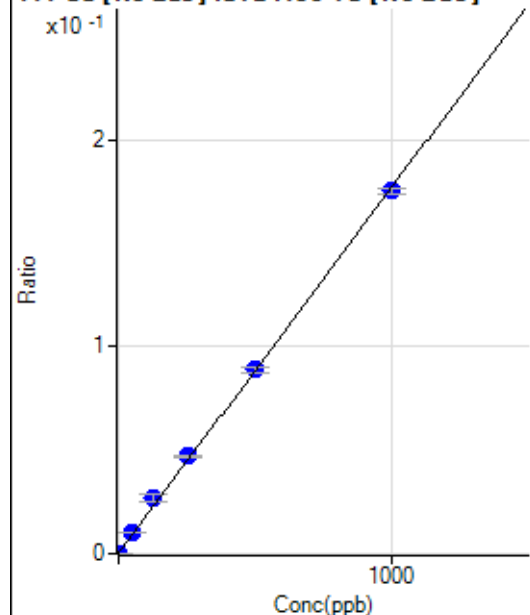
$$y = 8.8994\text{E-}004 * x + 6.5773\text{E-}006$$

$$R = 0.9997$$

$$DL = 0.01441$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1323.31	0.0003	P	3.0
2	☐	1.000	0.976	2213.80	0.0004	P	8.1
3	☐	50.000	54.344	50620.34	0.0099	P	1.4
4	☐	125.000	151.820	122945.81	0.0271	P	12.6
5	☐	250.000	264.338	239795.87	0.0470	P	1.9
6	☐	500.000	503.179	473873.99	0.0892	P	3.3
7	☐	1000.000	991.256	947342.71	0.1754	P	1.5
8	☐			1515.83	0.0003	P	18.9

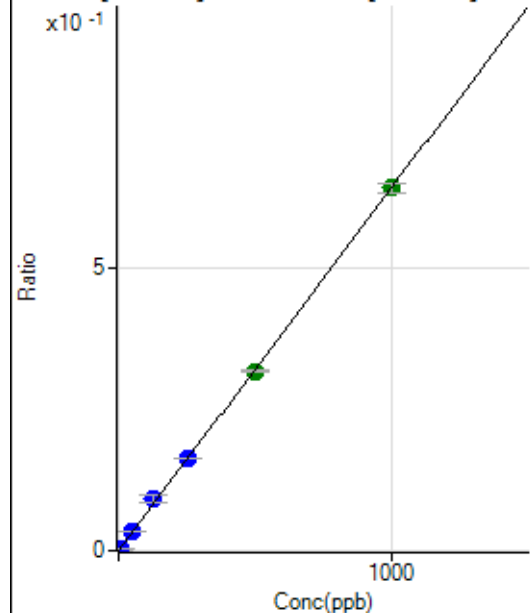
$$y = 1.7667E-004 * x + 2.6327E-004$$

$$R = 0.9996$$

$$DL = 0.1342$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	611.14	0.0001	P	9.8
2	☐	5.000	4.836	16438.09	0.0032	P	2.1
3	☐	50.000	51.819	171733.47	0.0335	P	1.9
4	☐	125.000	143.825	419475.47	0.0927	P	15.8
5	☐	250.000	252.557	830582.46	0.1626	P	0.6
6	☐	500.000	494.151	1690815.23	0.3181	A	1.4
7	☐	1000.000	999.842	3476343.22	0.6435	A	2.4
8	☐			1444.56	0.0003	P	12.8

$$y = 6.4345E-004 * x + 1.2148E-004$$

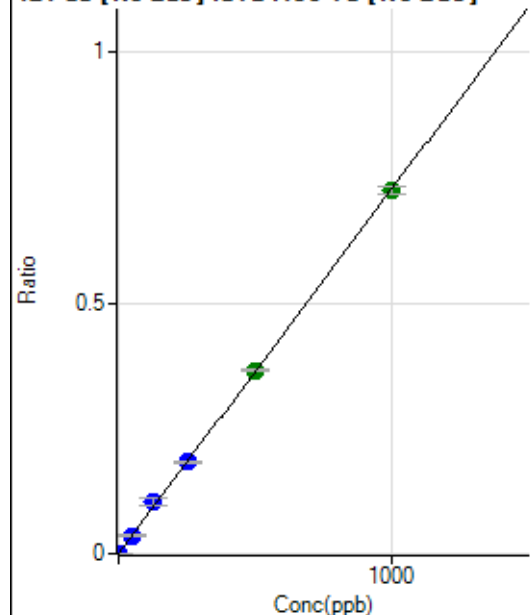
$$R = 0.9998$$

$$DL = 0.05547$$

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	25.00	0.0000	P	59.4
2	☐	2.000	1.866	6915.85	0.0014	P	4.9
3	☐	50.000	50.099	186788.10	0.0364	P	0.7
4	☐	125.000	144.511	475736.55	0.1050	P	14.7
5	☐	250.000	250.958	931075.04	0.1823	P	0.9
6	☐	500.000	503.003	1942373.20	0.3654	A	1.4
7	☐	1000.000	995.815	3907648.96	0.7234	A	2.3
8	☐			3542.22	0.0007	P	6.4

$$y = 7.2643\text{E-}004 * x + 5.0042\text{E-}006$$

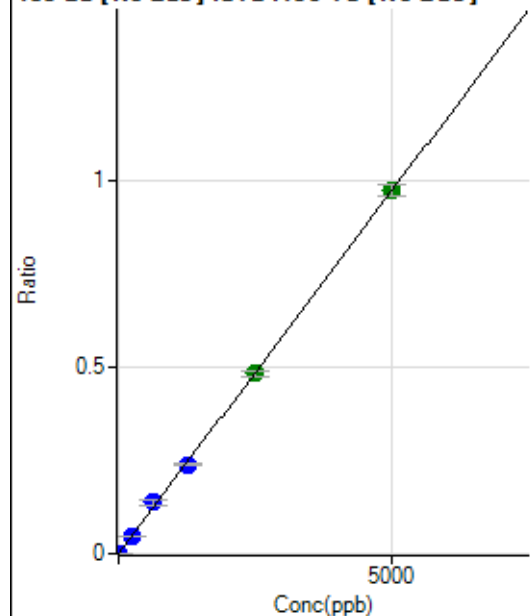
$$R = 0.9998$$

$$DL = 0.01227$$

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	22.22	0.0000	P	58.9
2	☐	10.000	9.365	9286.84	0.0018	P	2.5
3	☐	250.000	248.935	248470.43	0.0484	P	1.4
4	☐	625.000	704.803	621339.88	0.1371	P	14.3
5	☐	1250.000	1224.769	1216301.19	0.2382	P	2.5
6	☐	2500.000	2482.277	2566192.94	0.4828	A	2.8
7	☐	5000.000	5005.249	5258115.01	0.9735	A	3.2
8	☐			2228.04	0.0004	P	18.1

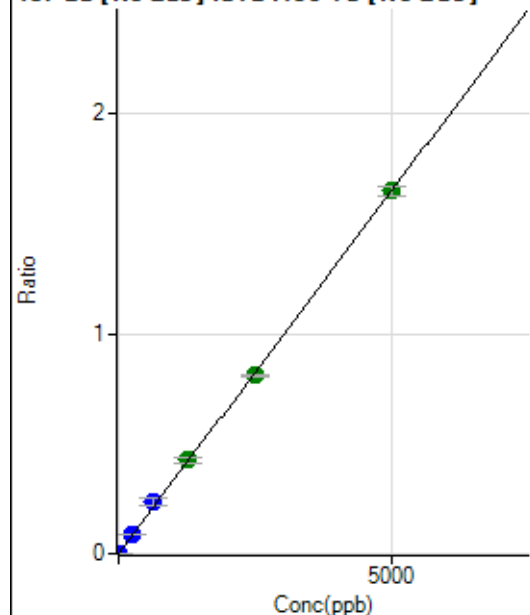
$$y = 1.9449\text{E-}004 * x + 4.4738\text{E-}006$$

$$R = 0.9998$$

$$DL = 0.04061$$

Weight: <None>

Min Conc: 0

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

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	25.00	0.0000	P	30.6
2	☐	10.000	9.228	15487.02	0.0030	P	2.4
3	☐	250.000	253.913	429357.86	0.0837	P	0.9
4	☐	625.000	721.246	1076553.39	0.2376	P	15.0
5	☐	1250.000	1290.371	2170051.98	0.4252	A	5.0
6	☐	2500.000	2453.200	4296807.91	0.8083	A	0.7
7	☐	5000.000	5001.082	8900114.35	1.6478	A	2.4
8	☐			3850.70	0.0008	P	17.0

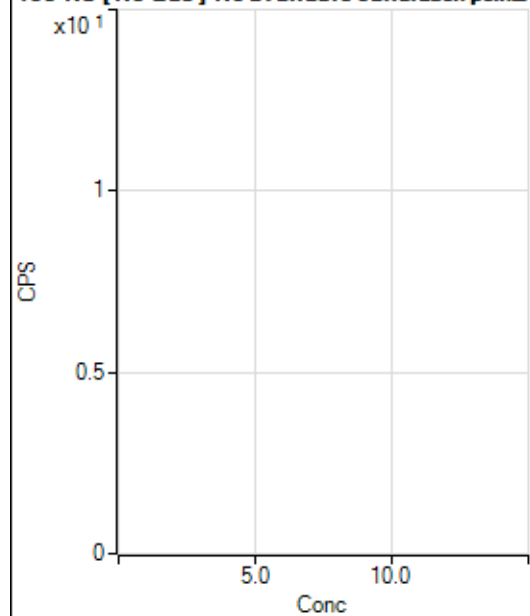
$$y = 3.2949E-004 * x + 4.9464E-006$$

$$R = 0.9997$$

$$DL = 0.01378$$

Weight: <None>

Min Conc: 0

150 Nd [No Gas] No available calibration points

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			6.67		P	0.0
2	☐			4.44		P	173.
3	☐			15.56		P	65.5
4	☐			66.67		P	43.6
5	☐			77.78		P	4.9
6	☐			146.67		P	18.2
7	☐			335.57		P	17.4
8	☐			28.89		P	58.1

150 Nd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			0.00		P	
2	☐			0.00		P	
3	☐			1.11		P	173.
4	☐			5.55		P	69.3
5	☐			16.66		P	34.6
6	☐			7.78		P	89.2
7	☐			27.78		P	6.9
8	☐			15.56		P	53.9

156 Dy [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			11.11		P	43.3
2	☐			16.66		P	86.6
3	☐			8.33		P	173.
4	☐			30.56		P	41.7
5	☐			27.78		P	34.6
6	☐			80.56		P	43.1
7	☐			222.23		P	30.1
8	☐			588.92		P	19.3

156 Dy [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1.11		P	173.
2	☐			2.22		P	86.6
3	☐			3.33		P	100.
4	☐			14.45		P	93.3
5	☐			25.55		P	15.1
6	☐			48.89		P	17.2
7	☐			111.12		P	3.5
8	☐			314.45		P	7.2

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			16.67		P	NaN
2	☐			16.67		P	50.0
3	☐			50.00		P	60.1
4	☐			55.56		P	74.0
5	☐			66.67		P	66.1
6	☐			113.89		P	11.2
7	☐			152.78		P	32.0
8	☐			594.47		P	8.0

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			41.11		P	26.1
2	☐			44.44		P	17.3
3	☐			38.89		P	26.2
4	☐			40.00		P	8.3
5	☐			55.56		P	27.1
6	☐			71.11		P	10.8
7	☐			144.45		P	18.6
8	☐			330.01		P	6.6

164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			61.11		P	28.4
2	☐			38.89		P	49.5
3	☐			22.22		P	78.1
4	☐			30.56		P	56.8
5	☐			36.11		P	35.3
6	☐			72.23		P	73.3
7	☐			86.11		P	20.1
8	☐			100.00		P	0.0

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			13.34		P	43.3
2	☐			16.67		P	34.6
3	☐			22.22		P	31.2
4	☐			18.89		P	20.4
5	☐			17.78		P	43.3
6	☐			21.11		P	36.5
7	☐			30.00		P	58.8
8	☐			37.78		P	13.5

172 Yb [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			22.22		P	57.3
2	☐			30.55		P	68.6
3	☐			25.00		P	57.7
4	☐			19.44		P	49.5
5	☐			16.67		P	50.0
6	☐			19.44		P	65.5
7	☐			36.11		P	35.3
8	☐			63.89		P	15.1

172 Yb [He] No available calibration points

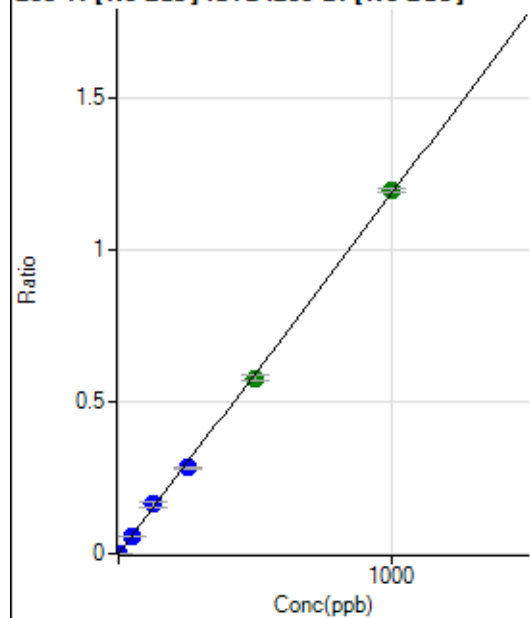
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			9.26		P	124.
2	☐			9.26		P	34.6
3	☐			3.71		P	86.6
4	☐			5.56		P	100.
5	☐			5.56		P	100.
6	☐			12.96		P	89.2
7	☐			25.93		P	68.9
8	☐			38.89		P	37.8

176 Yb [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			441.69		P	10.0
2	☐			519.47		P	12.0
3	☐			1216.76		P	14.5
4	☐			2050.23		P	5.2
5	☐			3856.22		P	8.6
6	☐			7221.62		P	4.7
7	☐			14341.59		P	4.2
8	☐			488.91		P	6.0

176 Yb [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			3235.64		P	3.9
2	☐			3154.15		P	9.1
3	☐			3343.09		P	10.3
4	☐			4102.56		P	3.0
5	☐			4786.13		P	4.4
6	☐			6444.26		P	4.4
7	☐			9629.57		P	1.0
8	☐			2976.32		P	5.7

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	208.34	0.0001	P	22.3
2	☐	1.000	0.870	3108.79	0.0011	P	3.2
3	☐	50.000	48.285	159580.40	0.0572	P	0.7
4	☐	125.000	136.447	400325.18	0.1614	P	12.4
5	☐	250.000	239.350	796353.54	0.2831	P	1.6
6	☐	500.000	487.459	1681587.72	0.5766	A	2.9
7	☐	1000.000	1007.588	3519764.49	1.1917	A	1.1
8	☐			919.51	0.0003	P	26.2

$$y = 0.0012 * x + 7.5580E-005$$

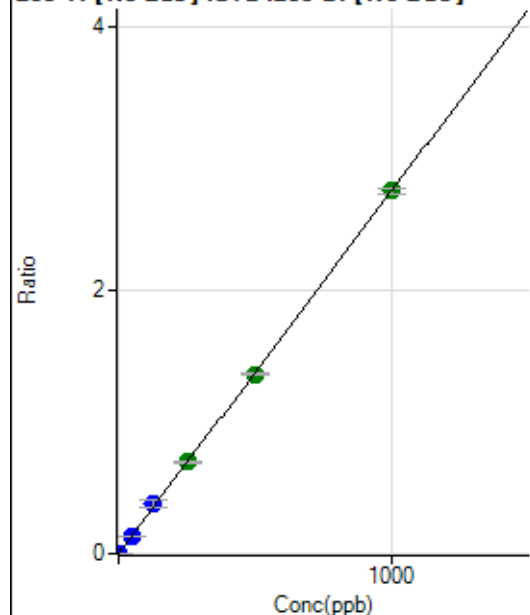
$$R = 0.9997$$

$$DL = 0.04276$$

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	530.58	0.0002	P	10.4
2	☐	1.000	0.827	6940.94	0.0025	P	3.0
3	☐	50.000	48.383	371690.03	0.1332	P	0.7
4	☐	125.000	137.837	939409.30	0.3791	P	13.1
5	☐	250.000	252.005	1948535.70	0.6929	A	3.1
6	☐	500.000	495.296	3971686.94	1.3616	A	1.9
7	☐	1000.000	1000.327	8121113.20	2.7498	A	1.5
8	☐			2228.05	0.0008	P	20.7

$$y = 0.0027 * x + 1.9216E-004$$

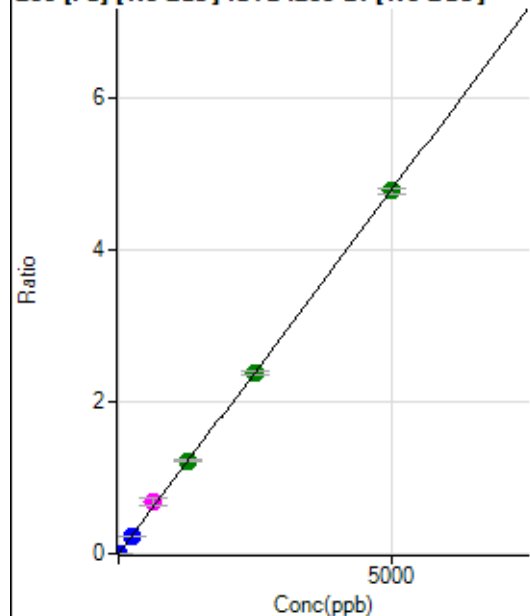
$$R = 0.9999$$

$$DL = 0.02177$$

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	631.51	0.0002	P	4.0
2	☐	1.000	0.832	2881.86	0.0010	P	4.4
3	☐	250.000	238.779	637743.67	0.2285	P	0.4
4	☐	625.000	709.322	1676779.30	0.6784	M	16.6
5	☐	1250.000	1281.626	3446493.48	1.2255	A	2.9
6	☐	2500.000	2484.006	6927377.82	2.3750	A	2.2
7	☐	5000.000	4990.111	14092246.15	4.7710	A	1.5
8	☐			7170.71	0.0027	P	13.8

$$y = 9.5604E-004 * x + 2.2872E-004$$

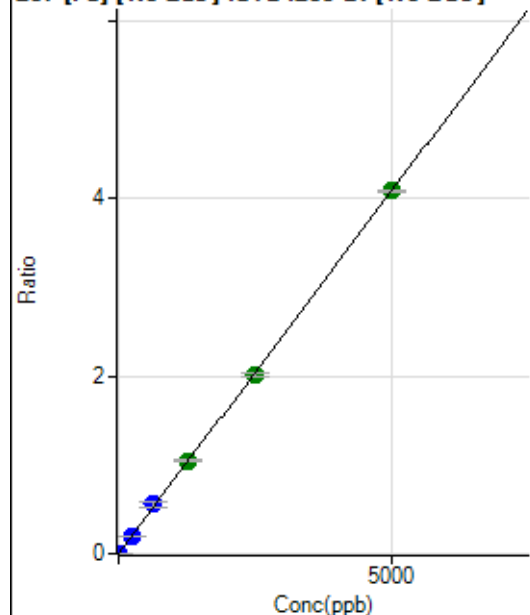
$$R = 0.9998$$

$$DL = 0.02867$$

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	479.65	0.0002	P	1.2
2	☐	1.000	0.820	2370.64	0.0008	P	6.9
3	☐	250.000	240.610	548192.71	0.1964	P	2.5
4	☐	625.000	678.689	1372249.34	0.5538	P	13.3
5	☐	1250.000	1284.281	2946727.15	1.0478	A	3.1
6	☐	2500.000	2467.468	5871916.62	2.0130	A	1.6
7	☐	5000.000	5001.454	12050252.35	4.0800	A	0.8
8	☐			6205.35	0.0024	P	8.1

$$y = 8.1573E-004 * x + 1.7365E-004$$

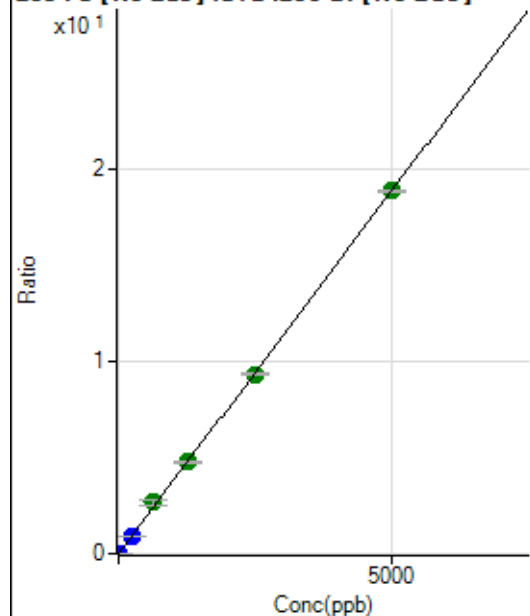
$$R = 0.9999$$

$$DL = 0.007749$$

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	2287.16	0.0008	P	2.1
2	☐	1.000	0.854	11396.66	0.0040	P	2.6
3	☐	250.000	239.733	2524317.68	0.9045	P	0.3
4	☐	625.000	704.109	6572940.87	2.6550	A	14.5
5	☐	1250.000	1264.120	13404207.76	4.7660	A	2.2
6	☐	2500.000	2467.634	27139946.61	9.3028	A	1.0
7	☐	5000.000	5003.278	55709350.32	18.8611	A	0.7
8	☐			28088.77	0.0107	P	11.6

$$y = 0.0038 * x + 8.2817E-004$$

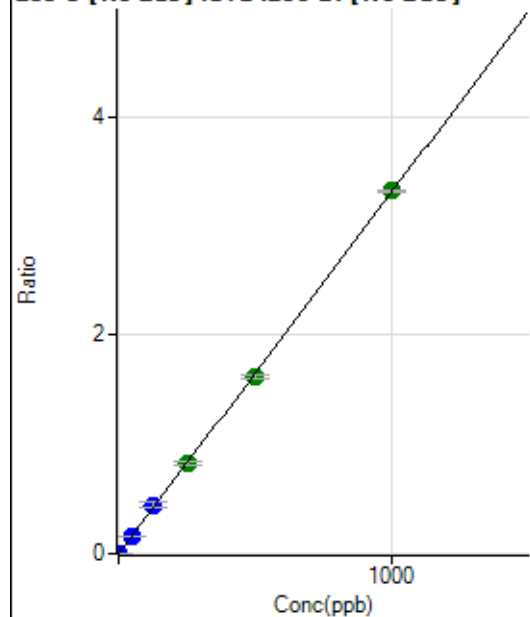
$$R = 0.9998$$

$$DL = 0.0137$$

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	2.78	0.0000	P	173.
2	☐	1.000	0.876	8152.89	0.0029	P	2.1
3	☐	50.000	47.340	436566.20	0.1564	P	0.6
4	☐	125.000	134.515	1101601.10	0.4445	P	13.1
5	☐	250.000	250.119	2324512.33	0.8265	A	2.3
6	☐	500.000	489.600	4719634.74	1.6179	A	1.7
7	☐	1000.000	1004.114	9800490.93	3.3181	A	0.3
8	☐			1794.72	0.0007	P	28.9

$$y = 0.0033 * x + 9.9191E-007$$

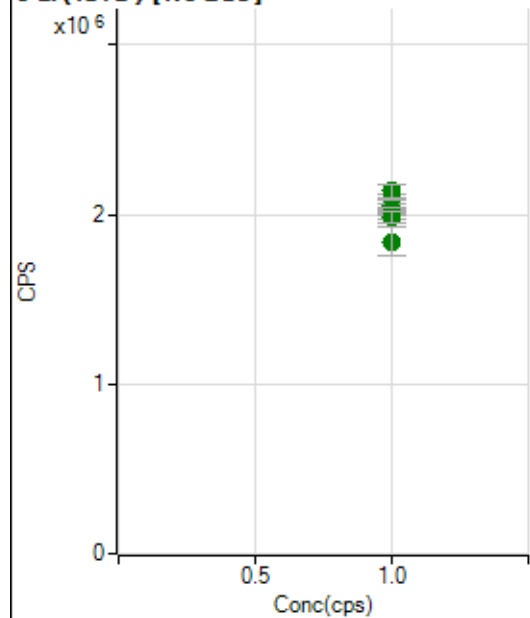
$$R = 0.9999$$

$$DL = 0.00156$$

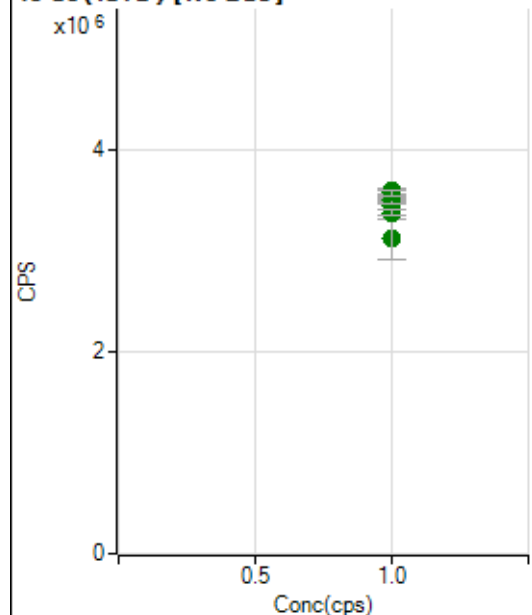
Weight: <None>

Min Conc: 0

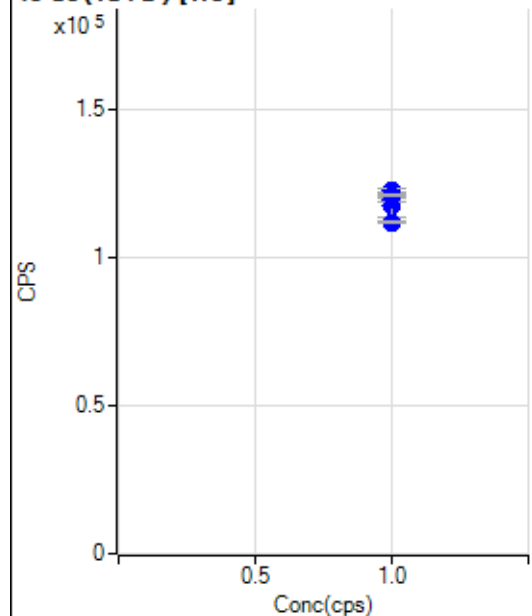
6 Li (ISTD) [No Gas]



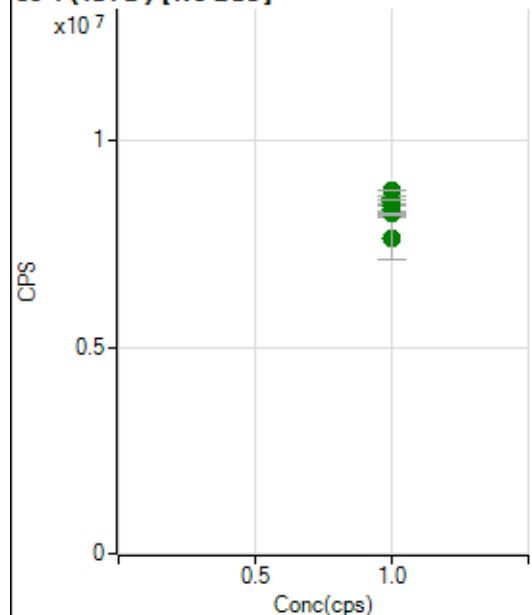
	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		1986825.41		A	1.2
2	☐	1.000		1988519.12		A	1.8
3	☐	1.000		2014992.25		A	1.2
4	☐	1.000		1838051.30		A	9.3
5	☐	1.000		2055884.47		A	0.9
6	☐	1.000		2101360.38		A	1.4
7	☐	1.000		2139473.82		A	3.9
8	☐	1.000		1985952.49		A	3.8

45 Sc (ISTD) [No Gas]

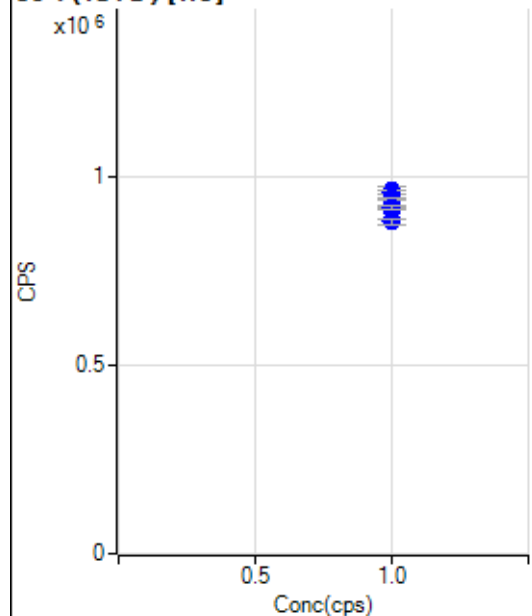
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3438897.17		A	2.2
2	☐	1.000		3533107.48		A	0.4
3	☐	1.000		3486460.71		A	0.2
4	☐	1.000		3110859.14		A	13.2
5	☐	1.000		3503578.45		A	2.0
6	☐	1.000		3587833.53		A	1.9
7	☐	1.000		3569148.63		A	1.8
8	☐	1.000		3374440.40		A	1.8

45 Sc (ISTD) [He]

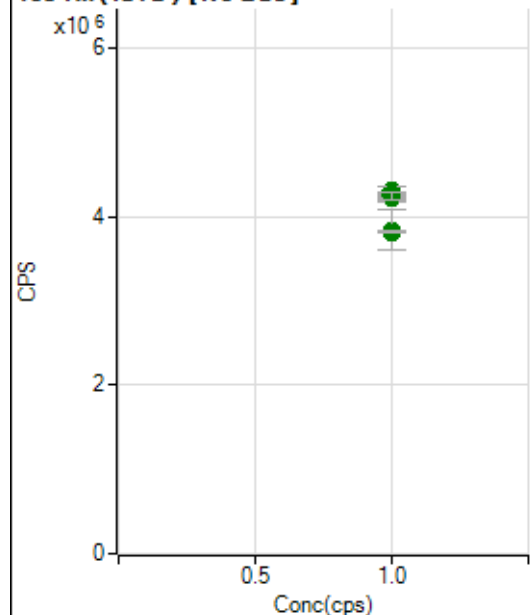
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		122355.96		P	0.9
2	☐	1.000		122147.68		P	1.3
3	☐	1.000		117252.41		P	6.5
4	☐	1.000		119529.04		P	1.1
5	☐	1.000		120493.26		P	1.0
6	☐	1.000		120876.31		P	1.4
7	☐	1.000		120785.16		P	0.3
8	☐	1.000		111644.30		P	0.6

89 Y (ISTD) [No Gas]

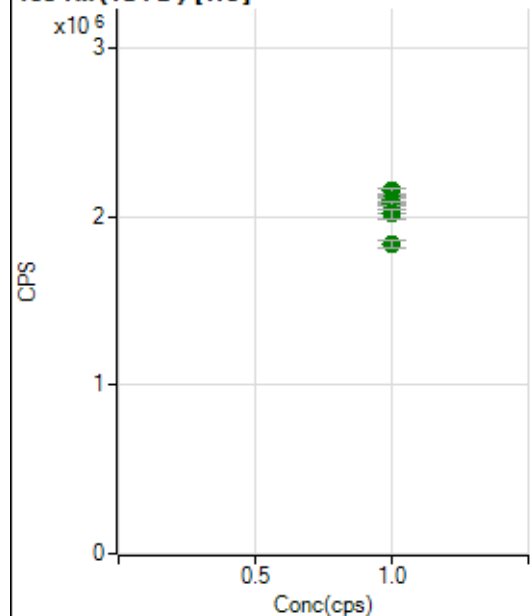
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		8355632.37		A	1.4
2	☐	1.000		8605358.34		A	1.3
3	☐	1.000		8508584.11		A	1.2
4	☐	1.000		7657642.87		A	13.5
5	☐	1.000		8424528.97		A	3.5
6	☐	1.000		8598626.05		A	1.1
7	☐	1.000		8789581.40		A	0.1
8	☐	1.000		8231024.32		A	0.5

89 Y (ISTD) [He]

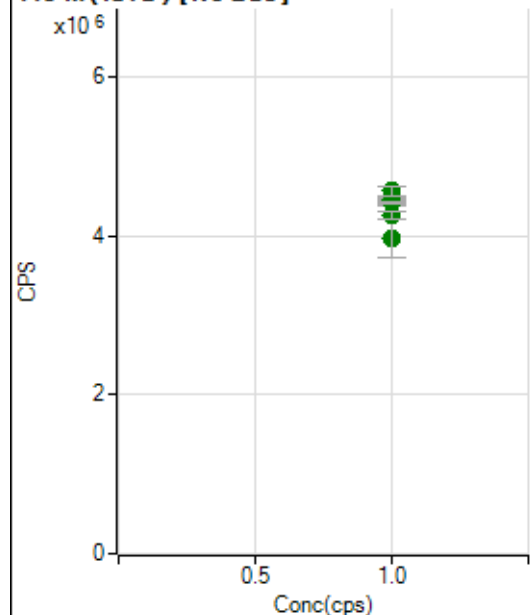
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		964770.19		P	2.2
2	☐	1.000		960821.01		P	1.2
3	☐	1.000		916963.42		P	5.9
4	☐	1.000		939486.88		P	0.2
5	☐	1.000		945011.30		P	0.7
6	☐	1.000		921112.52		P	0.7
7	☐	1.000		922549.72		P	1.0
8	☐	1.000		882828.77		P	1.4

103 Rh (ISTD) [No Gas]

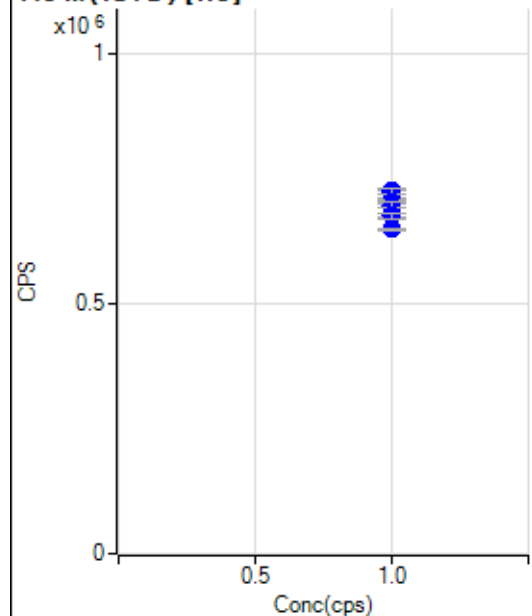
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4250516.98		A	1.4
2	☐	1.000		4311437.55		A	2.0
3	☐	1.000		4236556.30		A	2.1
4	☐	1.000		3847344.34		A	12.2
5	☐	1.000		4255896.97		A	1.5
6	☐	1.000		4280880.22		A	1.2
7	☐	1.000		4246568.93		A	1.8
8	☐	1.000		3826217.71		A	1.0

103 Rh (ISTD) [He]

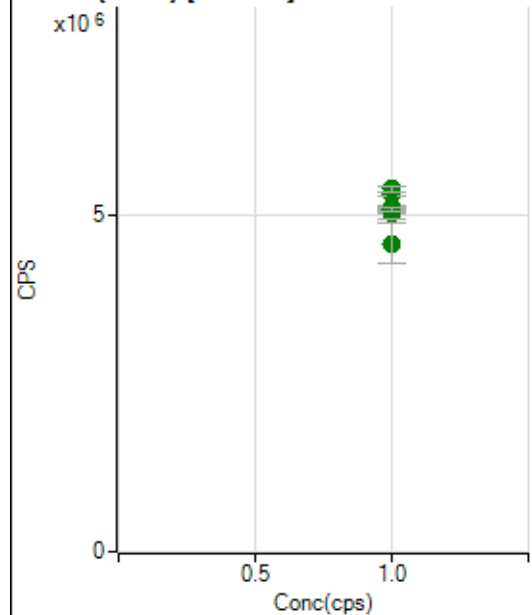
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2155090.12		A	1.8
2	☐	1.000		2104228.77		A	1.9
3	☐	1.000		2080069.76		A	5.3
4	☐	1.000		2100575.26		A	0.9
5	☐	1.000		2093406.91		A	2.2
6	☐	1.000		2079915.77		A	1.3
7	☐	1.000		2017464.52		A	2.5
8	☐	1.000		1840222.63		A	2.9

115 In (ISTD) [No Gas]

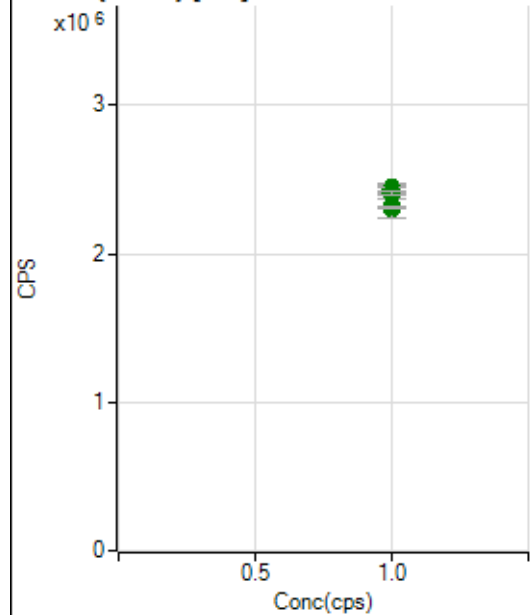
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4432402.80		A	2.5
2	☐	1.000		4422381.87		A	1.2
3	☐	1.000		4440986.05		A	1.6
4	☐	1.000		3965171.35		A	12.2
5	☐	1.000		4445748.49		A	1.3
6	☐	1.000		4414590.85		A	0.2
7	☐	1.000		4560481.27		A	2.4
8	☐	1.000		4248627.22		A	2.4

115 In (ISTD) [He]

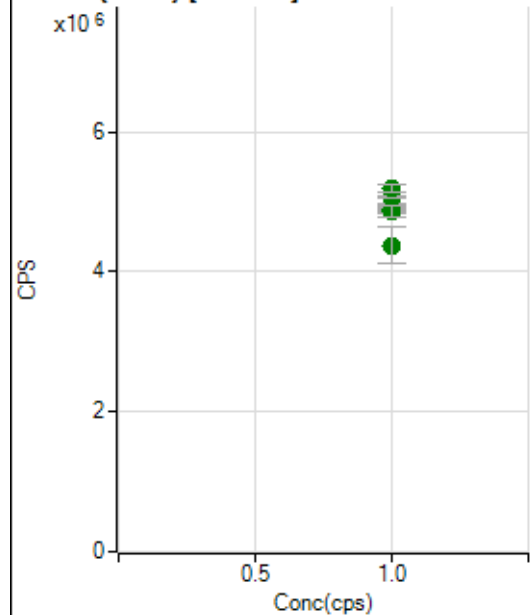
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		725410.21		P	0.8
2	☐	1.000		727012.28		P	1.8
3	☐	1.000		692508.54		P	5.8
4	☐	1.000		706360.43		P	0.9
5	☐	1.000		704692.35		P	1.2
6	☐	1.000		699216.79		P	1.3
7	☐	1.000		676315.08		P	1.3
8	☐	1.000		649596.25		P	0.7

159 Tb (ISTD) [No Gas]

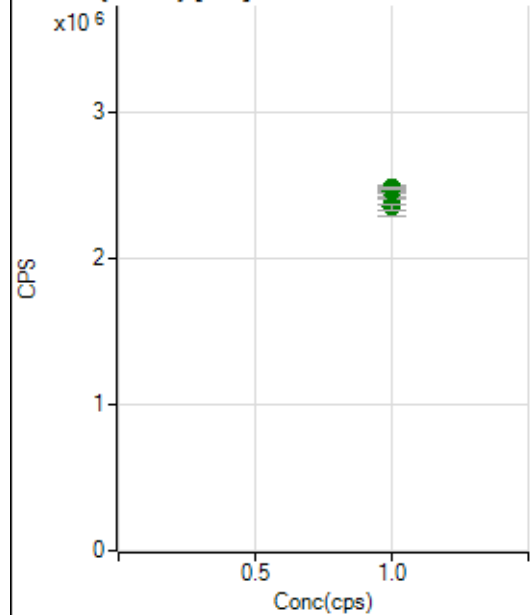
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5027703.88		A	3.2
2	☐	1.000		5085546.49		A	2.0
3	☐	1.000		5131741.94		A	0.3
4	☐	1.000		4588420.76		A	12.8
5	☐	1.000		5107287.32		A	1.9
6	☐	1.000		5316076.55		A	0.9
7	☐	1.000		5402187.73		A	1.5
8	☐	1.000		5106181.24		A	1.2

159 Tb (ISTD) [He]

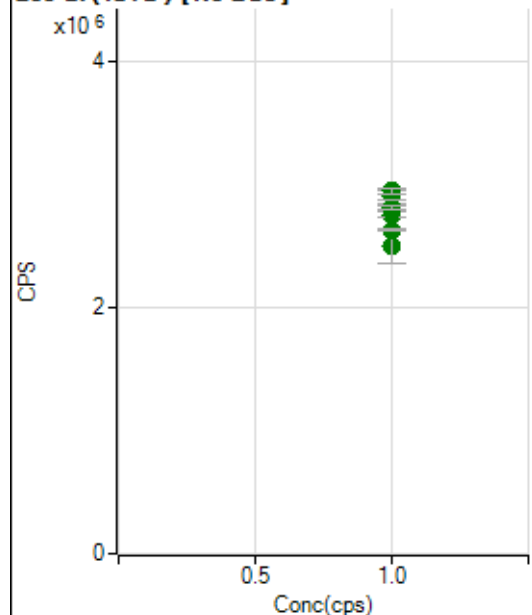
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2426262.03		A	1.3
2	☐	1.000		2442564.06		A	2.3
3	☐	1.000		2309029.95		A	5.4
4	☐	1.000		2417387.10		A	0.2
5	☐	1.000		2429738.80		A	2.7
6	☐	1.000		2428573.49		A	1.7
7	☐	1.000		2408905.05		A	1.1
8	☐	1.000		2312689.05		A	0.9

165 Ho (ISTD) [No Gas]

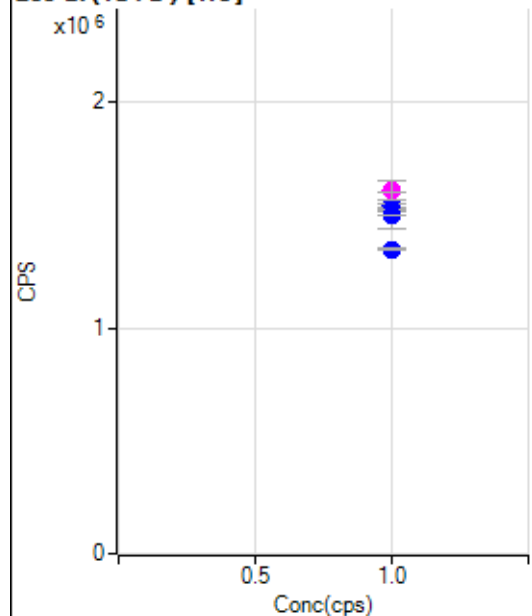
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4888852.15		A	1.1
2	☐	1.000		4886549.02		A	0.6
3	☐	1.000		4864132.14		A	1.1
4	☐	1.000		4378715.55		A	11.6
5	☐	1.000		4898722.16		A	3.0
6	☐	1.000		5064002.50		A	0.8
7	☐	1.000		5183351.85		A	2.1
8	☐	1.000		4867725.63		A	3.1

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2463281.39		A	1.3
2	☐	1.000		2482241.80		A	1.8
3	☐	1.000		2369002.28		A	6.6
4	☐	1.000		2416190.71		A	0.9
5	☐	1.000		2468640.21		A	1.1
6	☐	1.000		2472039.70		A	2.1
7	☐	1.000		2485528.85		A	0.7
8	☐	1.000		2353433.14		A	1.8

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2761855.48		A	1.3
2	☐	1.000		2815780.20		A	2.3
3	☐	1.000		2790801.76		A	0.8
4	☐	1.000		2502823.76		A	11.3
5	☐	1.000		2812918.92		A	1.2
6	☐	1.000		2917761.20		A	2.5
7	☐	1.000		2953639.16		A	1.9
8	☐	1.000		2635955.52		A	0.7

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1544482.03		P	1.0
2	☐	1.000		1608520.93		M	5.1
3	☐	1.000		1525145.39		M	10.6
4	☐	1.000		1528271.35		P	0.2
5	☐	1.000		1522181.75		P	0.9
6	☐	1.000		1525340.01		P	0.6
7	☐	1.000		1499239.87		P	0.2
8	☐	1.000		1350990.99		P	0.6

US EPA Tune Check Report

Operator Name Jaswal
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\IP8122221MS.b
Acq. Date-Time 2021-12-22 15:05:06
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		6350	63504.80			0.441	5.000
24		52598	525980.27			0.412	5.000
25		6975	69747.82			0.713	5.000
26		7876	78756.61			0.712	5.000
59		12434	124335.95			0.632	5.000
113		5033	50325.87			0.754	5.000
115		16672	166723.33			0.744	5.000
206		6467	64673.55			1.161	5.000
207		5494	54944.08			0.359	5.000
208		13431	134307.51			0.473	5.000
220		1	8.80			27.426	

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

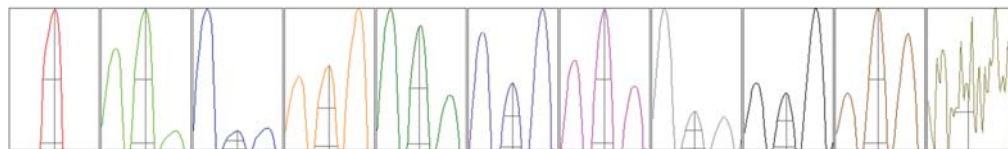
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	6347	6381	6353	6365	6306
24	52887	52738	52579	52399	52387
25	6993	6972	7007	7011	6890
26	7924	7932	7858	7870	7794
59	12465	12416	12451	12312	12524
113	5095	5031	4992	5029	5017
115	16762	16760	16683	16696	16460
206	6481	6467	6356	6466	6567
207	5460	5505	5502	5499	5507
208	13420	13461	13377	13372	13524

US EPA Tune Check Report

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

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	11529.62	9.05	8.90 - 9.10	
24	94245.71	24.00	23.90 - 24.10	
25	12655.11	25.00	24.90 - 25.10	
26	14376.20	26.00	25.90 - 26.10	
59	23502.80	58.95	58.90 - 59.10	
113	10026.19	113.00	112.90 - 113.10	
115	33074.09	115.00	114.90 - 115.10	
206	12349.79	205.95	205.90 - 206.10	
207	10466.93	206.95	206.90 - 207.10	
208	25790.28	207.95	207.90 - 208.10	
220	0.80	219.90	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.60	0.736	0.900	
24	0.59	0.780	0.900	
25	0.59	0.783	0.900	
26	0.59	0.777	0.900	
59	0.56	0.737	0.900	
113	0.53	0.703	0.900	
115	0.52	0.729	0.900	
206	0.55	0.767	0.900	
207	0.53	0.741	0.900	
208	0.54	0.779	0.900	
220	0.67			

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode --- Nebulizer Gas 0.73 L/min Dilution Gas 0.40 L/min

US EPA Tune Check Report

RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.40 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	10.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	-6.0 V	Omega Lens	10.5 V	Deflect	15.0 V
Extract 2	-220.0 V	Cell Entrance	-30 V	Plate Bias	-50 V
Omega Bias	-115 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	4.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	---	OctP RF	190 V		

QP Parameters

Mass Gain	122	Axis Gain	0.9989	QP Bias	-4.0 V
Mass Offset	125	Axis Offset	-0.01		

Hardware Settings

Torch

Torch H	0.9 mm	Torch V	-0.7 mm
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EM

Discriminator	4.0 mV	Analog HV	2279 V	Pulse HV	1604 V
---------------	--------	-----------	--------	----------	--------

[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		3006	30060.78			1.007	
89		9354	93539.14			0.845	
205		13588	135883.14			1.063	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	3023	3011	2961	3041	2994
89	9375	9406	9336	9426	9226
205	13392	13761	13511	13683	13594

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.75 L/min	Dilution Gas	0.40 L/min
RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.40 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	10.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	-6.0 V	Omega Lens	10.5 V	Deflect	4.2 V
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US EPA Tune Check Report

Extract 2	-220.0 V	Cell Entrance	-50 V	Plate Bias	-60 V
Omega Bias	-115 V	Cell Exit	-70 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	4.5 mL/min	OctP Bias	-18.0 V		
H2 Flow	---	OctP RF	190 V		

QP Parameters

Mass Gain	122	Axis Gain	0.9989	QP Bias	-13.0 V
Mass Offset	125	Axis Offset	-0.01		

Hardware Settings

Torch

Torch H	0.9 mm	Torch V	-0.7 mm
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EM

Discriminator	4.0 mV	Analog HV	2279 V	Pulse HV	1604 V
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