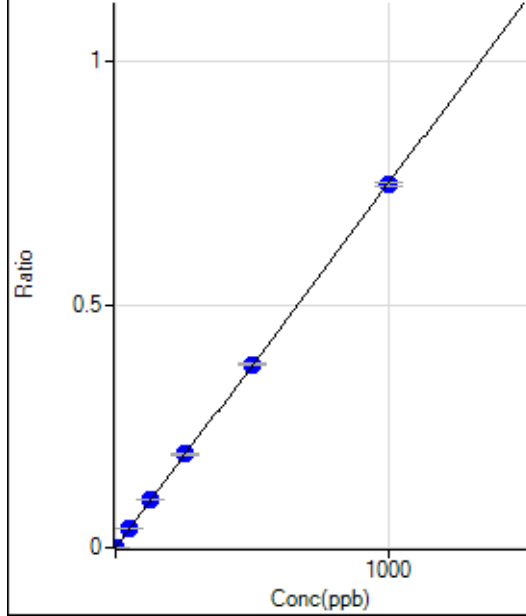


Batch Folder: D:\Agilent\ICPMH\1\DATA\P7072624-MS1.b\
Analysis File: P7072624-MS1.batch.bin
DA Date-Time: 2024-07-26 23:50:26
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	003CALB.d	S00	2024-07-26 15:21:27
2	005CALS.d	S02	2024-07-26 15:28:09
3	006CALS.d	S03	2024-07-26 15:31:29
4	007CALS.d	S04	2024-07-26 15:34:46
5	008CALS.d	S05	2024-07-26 15:37:57
6	009CALS.d	S06	2024-07-26 15:40:58
7	010CALS.d	S07	2024-07-26 15:43:56
8	011CALS.d	S08	2024-07-26 15:46:47

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	72.22	0.0001	P	27.8
2	☐	1.000	1.053	714.47	0.0009	P	7.1
3	☐	50.000	52.911	32303.58	0.0397	P	2.3
4	☐	125.000	130.725	77663.56	0.0980	P	1.4
5	☐	250.000	256.677	148532.03	0.1923	P	0.8
6	☐	500.000	503.148	287390.02	0.3769	P	1.4
7	☐	1000.000	995.896	563852.97	0.7460	P	1.1
8	☐			1032.27	0.0014	P	7.3

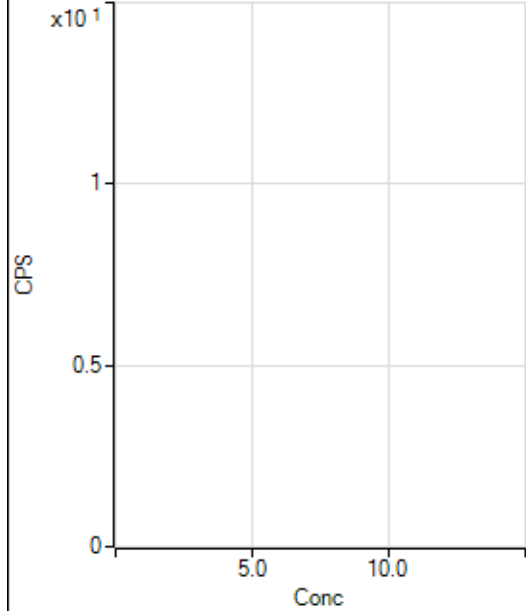
$$y = 7.4899\text{E-}004 * x + 8.9881\text{E-}005$$

$$R = 1.0000$$

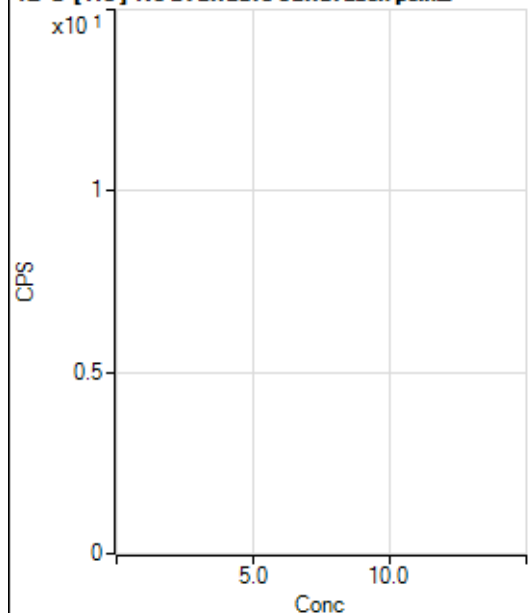
$$DL = 0.09993$$

Weight: <None>

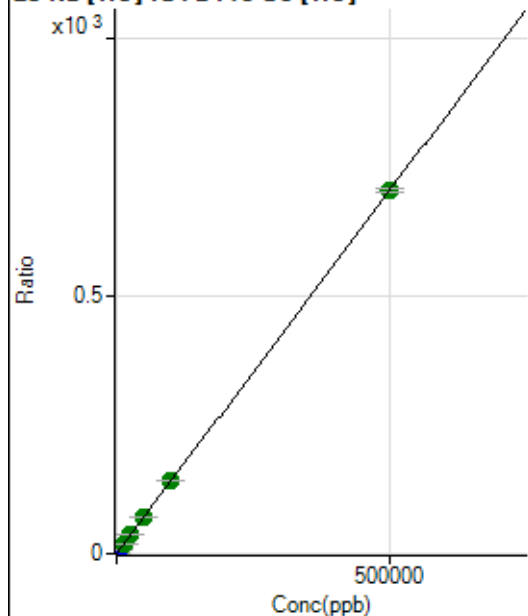
Min Conc: 0

12 C [No Gas] No available calibration points

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

12 C [He] No available calibration points

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

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	5597.73	0.0384	P	2.9
2	☐	500.000	489.683	107382.89	0.7292	P	0.5
3	☐	5000.000	5261.147	1082278.73	7.4599	P	0.3
4	☐	12500.000	12789.222	2544901.75	18.0792	A	1.7
5	☐	25000.000	25420.075	4950328.71	35.8965	A	0.6
6	☐	50000.000	51080.624	9833543.26	72.0939	A	0.5
7	☐	100000.00	100415.87	19417993.88	141.6873	A	0.8
8	☐	500000.00	499777.92	97039127.44	705.0362	A	0.9

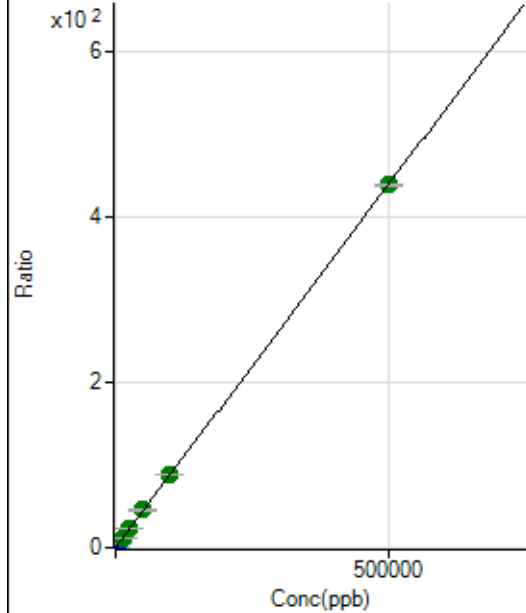
$$y = 0.0014 * x + 0.0384$$

$$R = 1.0000$$

$$DL = 2.387$$

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	1152.28	0.0079	P	11.8
2	☐	500.000	492.115	64757.60	0.4397	P	0.8
3	☐	5000.000	5364.506	684049.90	4.7150	P	0.2
4	☐	12500.000	13032.363	1610825.10	11.4432	A	1.0
5	☐	25000.000	26013.061	3148798.95	22.8331	A	0.4
6	☐	50000.000	51708.701	6189702.89	45.3797	A	1.1
7	☐	100000.00	101169.53	12166981.35	88.7790	A	1.1
8	☐	500000.00	499527.62	60328862.44	438.3178	A	0.4

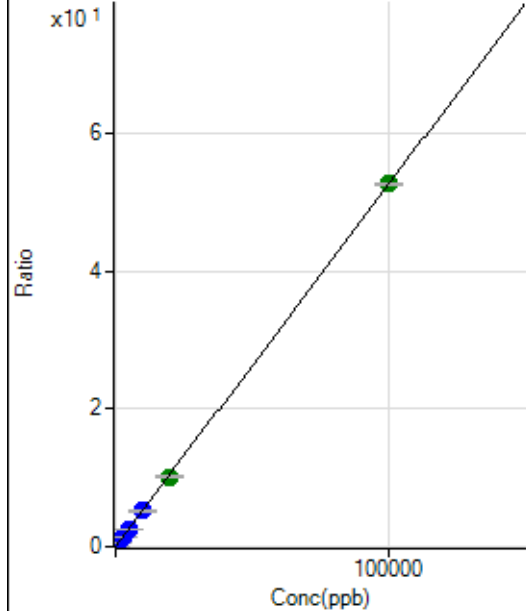
$$y = 8.7745\text{E-}004 * x + 0.0079$$

$$R = 1.0000$$

$$DL = 3.191$$

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	48.89	0.0003	P	18.2
2	☐	20.000	19.534	1560.10	0.0106	P	5.9
3	☐	1000.000	1023.872	78070.40	0.5381	P	0.2
4	☐	2500.000	2482.198	183570.73	1.3041	P	1.1
5	☐	5000.000	4928.253	357026.36	2.5889	P	0.6
6	☐	10000.000	9825.665	703985.02	5.1612	P	0.2
7	☐	20000.000	19225.457	1383767.06	10.0984	A	2.4
8	☐	100000.00	100176.13	7242025.17	52.6173	A	0.7

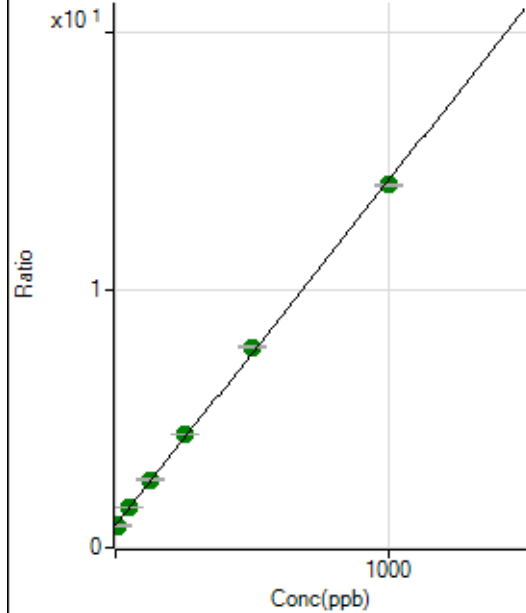
$$y = 5.2524\text{E-}004 * x + 3.3595\text{E-}004$$

$$R = 1.0000$$

$$DL = 0.3489$$

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	1499420.00	0.8579	A	2.2
2	☐	10.000	-0.065	1525394.91	0.8570	A	0.6
3	☐	50.000	53.483	2814309.65	1.5737	A	1.1
4	☐	125.000	133.324	4609370.04	2.6424	A	0.8
5	☐	250.000	263.539	7509515.44	4.3853	A	0.5
6	☐	500.000	516.604	13134681.75	7.7726	A	1.2
7	☐	1000.000	987.199	23979646.59	14.0715	A	0.4
8	☐			1427144.41	0.8636	A	2.4

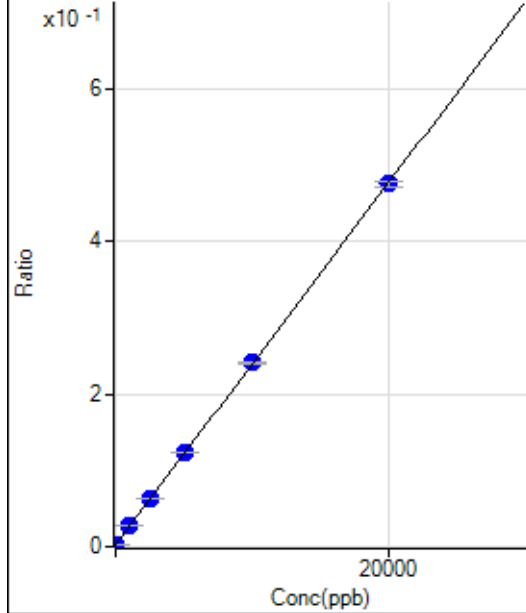
$$y = 0.0134 * x + 0.8579$$

$$R = 0.9995$$

$$DL = 4.273$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	-16.014	272.23	0.0019	P	23.9
2	☐	0.000	16.014	387.79	0.0026	P	8.8
3	☐	1000.000	1053.731	3954.99	0.0273	P	0.4
4	☐	2500.000	2527.652	8761.46	0.0622	P	1.3
5	☐	5000.000	5086.112	16956.15	0.1230	P	0.3
6	☐	10000.000	10054.675	32854.15	0.2409	P	1.1
7	☐	20000.000	19944.991	65174.53	0.4756	P	1.5
8	☐			282.23	0.0021	P	4.0

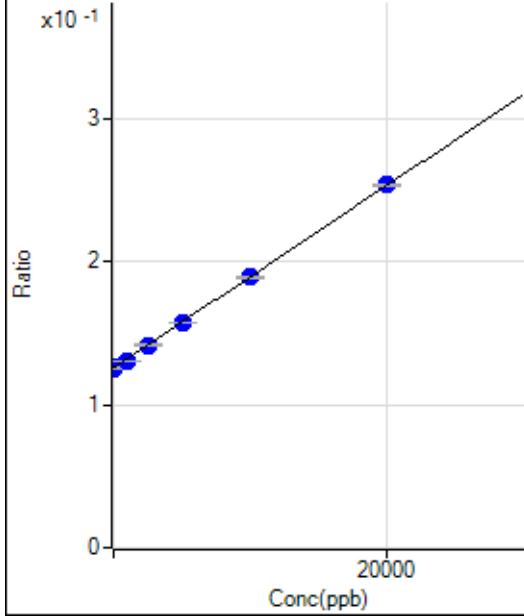
$$y = 2.3732E-005 * x + 0.0023$$

$$R = 1.0000$$

$$DL = 43.09$$

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	99.238	220873.00	0.1264	P	3.1
2	☐	0.000	-99.238	222719.39	0.1251	P	1.0
3	☐	1000.000	752.011	233463.94	0.1305	P	0.4
4	☐	2500.000	2502.657	247153.89	0.1417	P	1.3
5	☐	5000.000	4926.921	269071.65	0.1571	P	0.4
6	☐	10000.000	9942.285	319490.32	0.1891	P	0.8
7	☐	20000.000	20059.195	431929.33	0.2535	P	0.8
8	☐			210599.83	0.1274	P	1.0

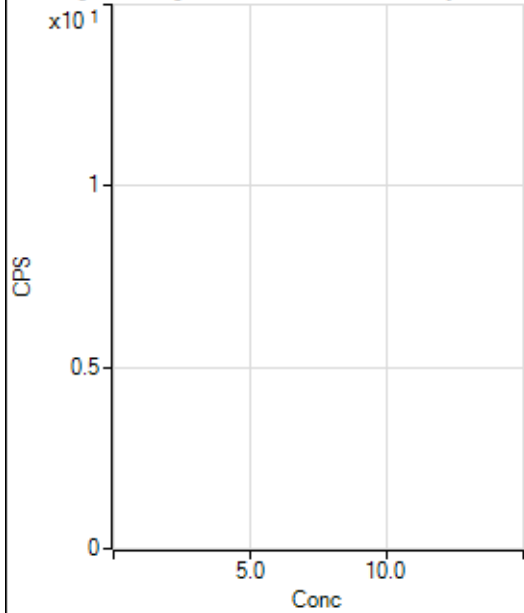
$$y = 6.3663\text{E-}006 * x + 0.1258$$

$$R = 0.9999$$

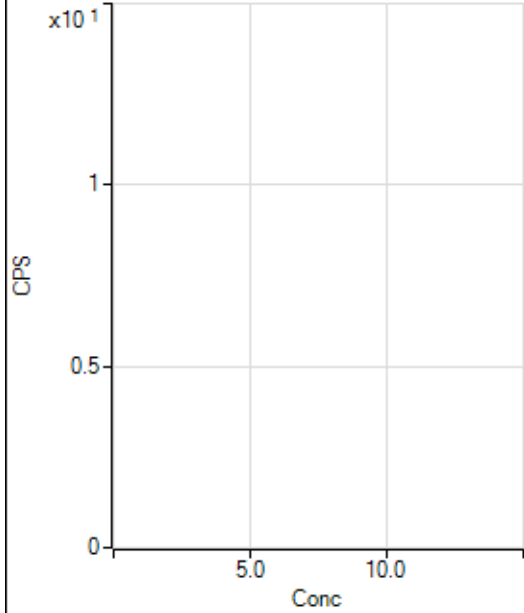
$$DL = 1216$$

Weight: <None>

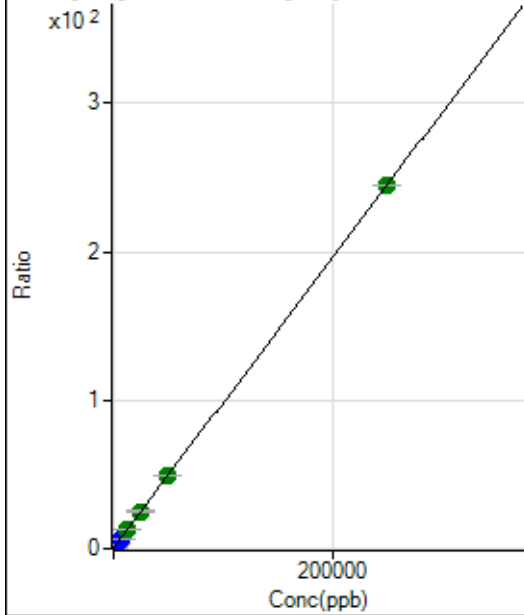
Min Conc: 0

35 Cl [No Gas] No available calibration points

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

35 Cl [He] No available calibration points

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

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	73793.01	0.5065	P	4.2
2	☐	500.000	476.082	142968.52	0.9709	P	1.5
3	☐	2500.000	2648.298	448225.75	3.0895	P	0.3
4	☐	6250.000	6525.747	967252.20	6.8713	P	0.6
5	☐	12500.000	12748.327	1784537.32	12.9404	A	0.9
6	☐	25000.000	25352.797	3441887.97	25.2340	A	1.2
7	☐	50000.000	49748.853	6719188.93	49.0284	A	1.0
8	☐	250000.00	249994.20	33629505.05	244.3351	A	0.1

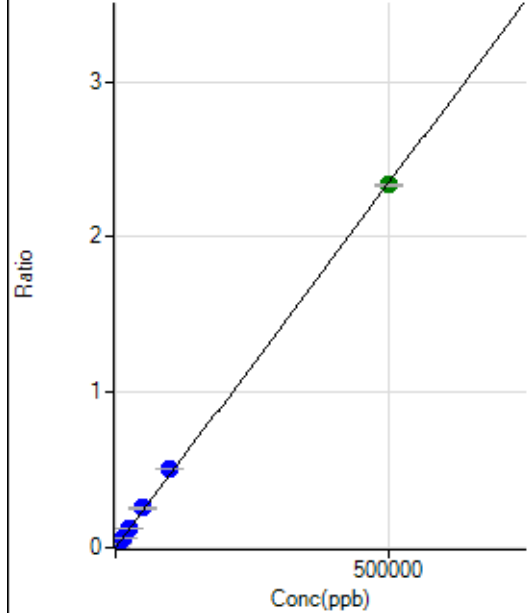
$$y = 9.7534\text{E-}004 * x + 0.5065$$

$$R = 1.0000$$

$$DL = 65.12$$

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	182.22	0.0001	P	5.6
2	☐	500.000	481.667	4206.18	0.0024	P	2.5
3	☐	5000.000	5592.372	47089.39	0.0263	P	0.8
4	☐	12500.000	13746.828	112645.08	0.0646	P	1.0
5	☐	25000.000	27250.686	219024.41	0.1279	P	1.1
6	☐	50000.000	54464.458	431818.99	0.2555	P	1.7
7	☐	100000.00	107749.65	861318.78	0.5054	P	0.9
8	☐	500000.00	497854.01	3858888.83	2.3350	A	0.7

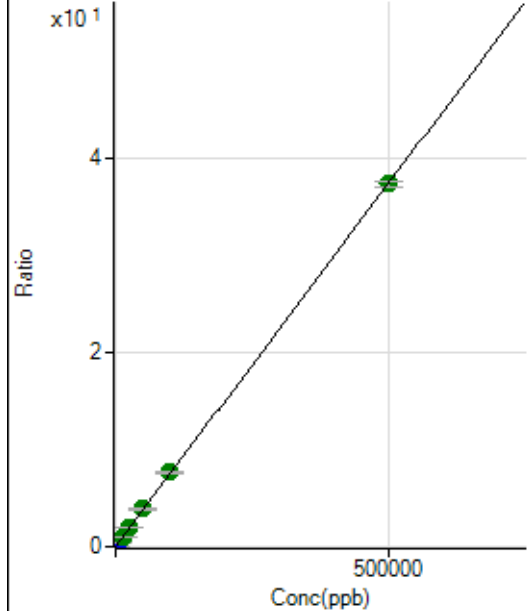
$$y = 4.6899\text{E-}006 * x + 1.0410\text{E-}004$$

$$R = 0.9999$$

$$DL = 3.759$$

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	24469.85	0.0140	P	4.1
2	☐	500.000	489.575	90077.52	0.0506	P	0.6
3	☐	5000.000	5433.328	751482.12	0.4202	P	0.9
4	☐	12500.000	13236.216	1750569.26	1.0036	A	0.6
5	☐	25000.000	25967.155	3348259.46	1.9554	A	1.9
6	☐	50000.000	51701.993	6555747.54	3.8794	A	1.5
7	☐	100000.00	102254.29	13051352.86	7.6589	A	1.5
8	☐	500000.00	499307.85	61715621.30	37.3442	A	1.8

$$y = 7.4764\text{E-}005 * x + 0.0140$$

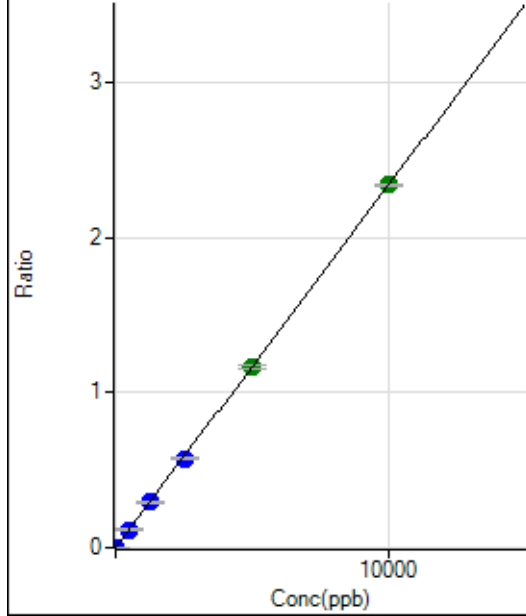
$$R = 1.0000$$

$$DL = 23.18$$

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	74.45	0.0000	P	8.0
2	☐	5.000	4.486	1940.14	0.0011	P	8.3
3	☐	500.000	502.734	210002.57	0.1174	P	1.0
4	☐	1250.000	1246.953	507962.77	0.2912	P	0.4
5	☐	2500.000	2465.088	985700.03	0.5756	P	1.3
6	☐	5000.000	5000.357	1973111.20	1.1676	A	1.8
7	☐	10000.000	10008.794	3982671.99	2.3371	A	0.7
8	☐			820.03	0.0005	P	10.2

$$y = 2.3350\text{E-}004 * x + 4.2642\text{E-}005$$

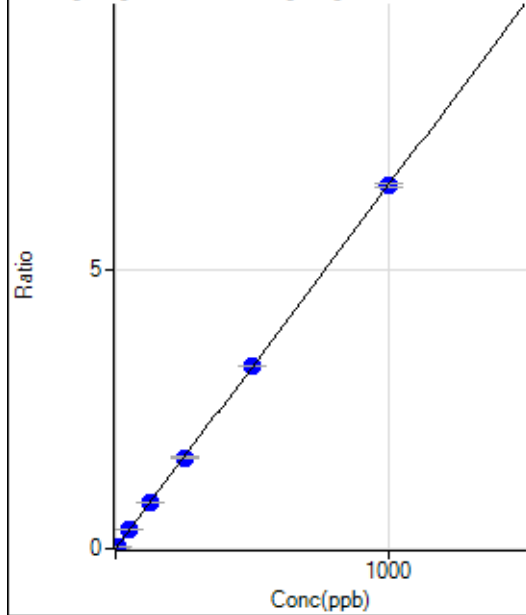
$$R = 1.0000$$

$$DL = 0.04371$$

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	26.67	0.0002	P	63.6
2	☐	5.000	4.841	4669.64	0.0317	P	3.7
3	☐	50.000	50.708	47941.34	0.3304	P	0.3
4	☐	125.000	125.902	115456.97	0.8202	P	0.2
5	☐	250.000	251.105	225561.06	1.6357	P	0.9
6	☐	500.000	503.589	447403.95	3.2801	P	0.4
7	☐	1000.000	997.782	890640.25	6.4989	P	0.9
8	☐			295.56	0.0021	P	13.2

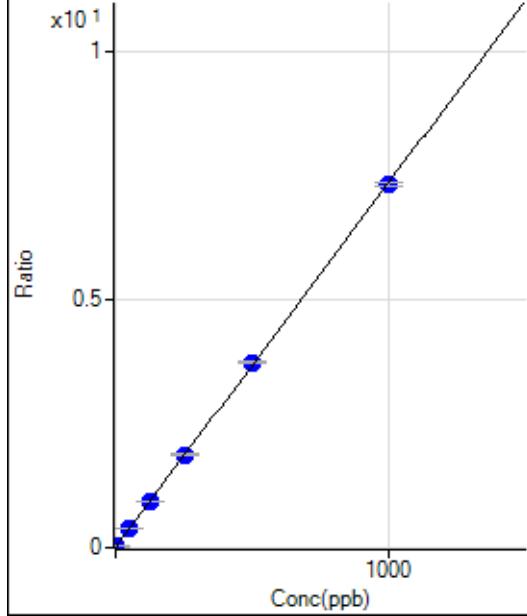
$$y = 0.0065 * x + 1.8156\text{E-}004$$

$$R = 1.0000$$

$$DL = 0.0532$$

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	715.58	0.0049	P	5.6
2	☐	2.000	2.052	2939.20	0.0200	P	4.5
3	☐	50.000	51.344	55359.89	0.3816	P	0.3
4	☐	125.000	128.101	132981.94	0.9447	P	0.2
5	☐	250.000	254.345	257998.78	1.8709	P	0.8
6	☐	500.000	507.814	508818.56	3.7304	P	0.5
7	☐	1000.000	994.551	1000578.74	7.3012	P	1.2
8	☐			8878.22	0.0645	P	1.9

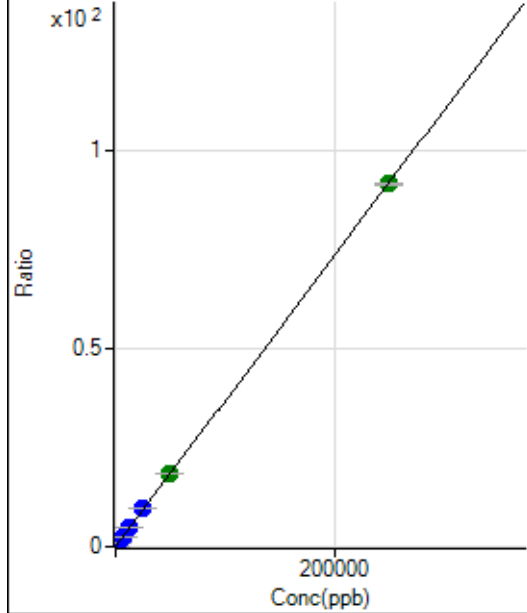
$$y = 0.0073 * x + 0.0049$$

$$R = 0.9999$$

$$DL = 0.1125$$

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	1376.75	0.0095	P	6.4
2	☐	50.000	52.050	4208.40	0.0286	P	1.6
3	☐	2500.000	2676.433	144050.81	0.9929	P	1.0
4	☐	6250.000	6629.402	344230.31	2.4454	P	0.4
5	☐	12500.000	13167.423	668521.90	4.8478	P	0.5
6	☐	25000.000	26118.178	1310309.35	9.6065	P	0.2
7	☐	50000.000	50763.707	2557797.15	18.6623	A	0.4
8	☐	250000.00	249690.82	12629112.59	91.7572	A	0.4

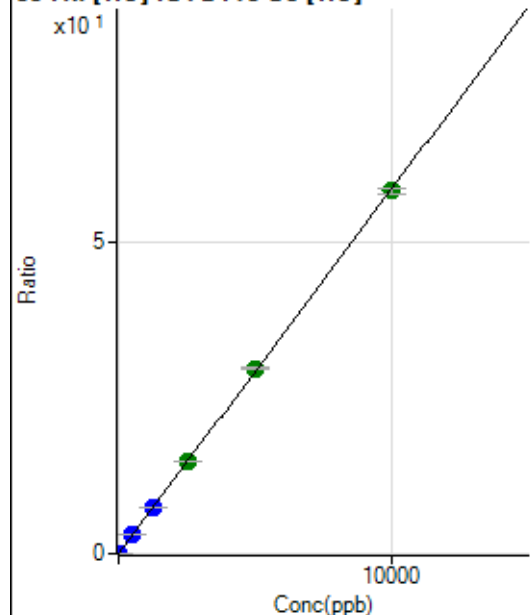
$$y = 3.6745E-004 * x + 0.0095$$

$$R = 1.0000$$

$$DL = 4.964$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	363.34	0.0025	P	9.7
2	☐	1.000	0.955	1190.06	0.0081	P	0.2
3	☐	500.000	508.105	431240.12	2.9725	P	0.6
4	☐	1250.000	1246.988	1026381.63	7.2913	P	0.7
5	☐	2500.000	2546.157	2052729.95	14.8852	A	0.8
6	☐	5000.000	5071.291	4043577.75	29.6450	A	0.8
7	☐	10000.000	9952.786	7972630.79	58.1781	A	1.7
8	☐			5087.57	0.0370	P	3.1

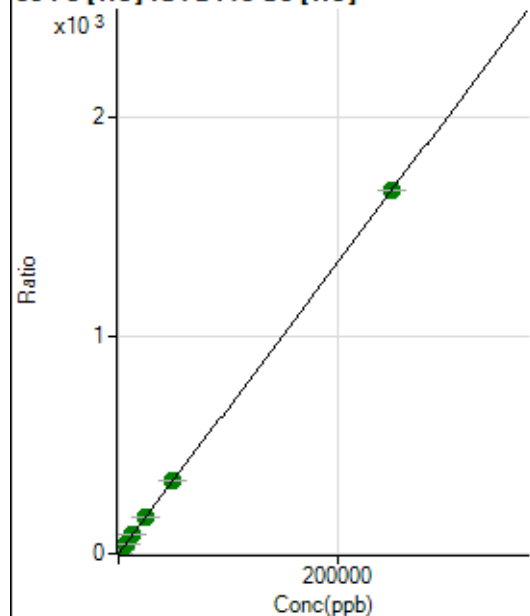
$$y = 0.0058 * x + 0.0025$$

$$R = 0.9999$$

$$DL = 0.1244$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	11757.60	0.0806	P	2.3
2	☐	50.000	50.979	61864.60	0.4201	P	1.2
3	☐	2500.000	2615.613	2538298.35	17.4956	A	0.8
4	☐	6250.000	6413.868	6022837.41	42.7847	A	0.7
5	☐	12500.000	12805.752	11769064.68	85.3425	A	0.4
6	☐	25000.000	25520.705	23187742.15	169.9998	A	0.5
7	☐	50000.000	50116.595	45739143.76	333.7614	A	1.4
8	☐	250000.00	249904.07	229022689.9	1,663.964	A	0.1

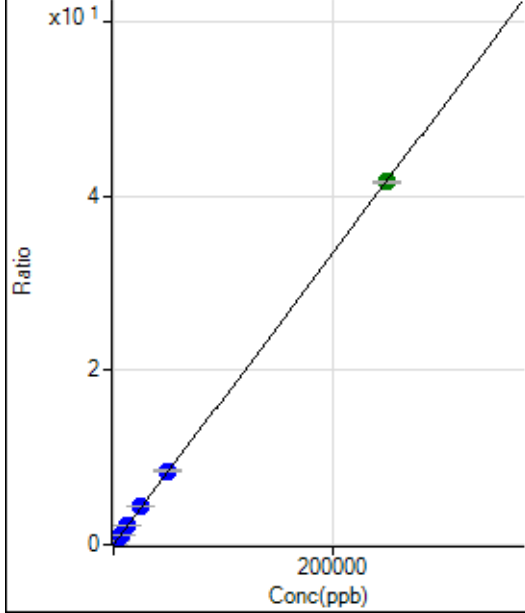
$$y = 0.0067 * x + 0.0806$$

$$R = 1.0000$$

$$DL = 0.8534$$

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	381.12	0.0026	P	10.8
2	☐	50.000	50.476	1624.55	0.0110	P	3.5
3	☐	2500.000	2663.221	64762.02	0.4464	P	0.4
4	☐	6250.000	6583.736	154797.25	1.0997	P	0.3
5	☐	12500.000	13019.624	299536.63	2.1721	P	0.5
6	☐	25000.000	25871.484	588367.89	4.3136	P	0.3
7	☐	50000.000	50701.222	1158134.56	8.4509	P	1.2
8	☐	250000.00	249736.65	5727857.21	41.6161	A	0.8

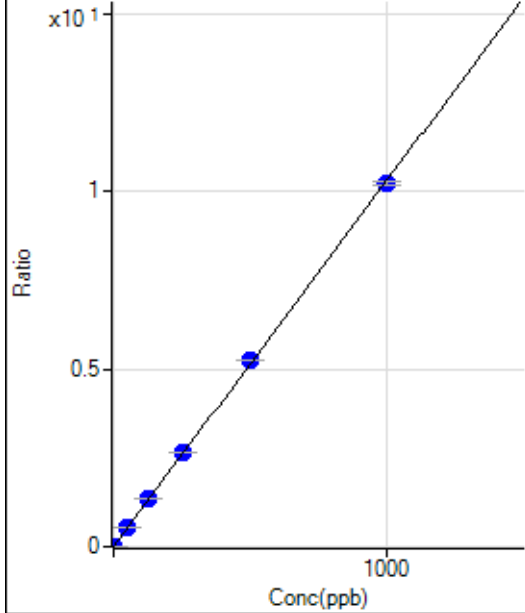
$$y = 1.6663\text{E-}004 * x + 0.0026$$

$$R = 1.0000$$

$$DL = 5.084$$

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	65.56	0.0005	P	34.8
2	☐	1.000	1.054	1666.78	0.0113	P	2.3
3	☐	50.000	52.576	78679.19	0.5423	P	0.5
4	☐	125.000	130.317	189124.56	1.3435	P	0.7
5	☐	250.000	257.476	365998.77	2.6541	P	1.0
6	☐	500.000	510.480	717673.94	5.2616	P	0.1
7	☐	1000.000	992.098	1401317.11	10.2253	P	1.1
8	☐			4203.96	0.0305	P	3.7

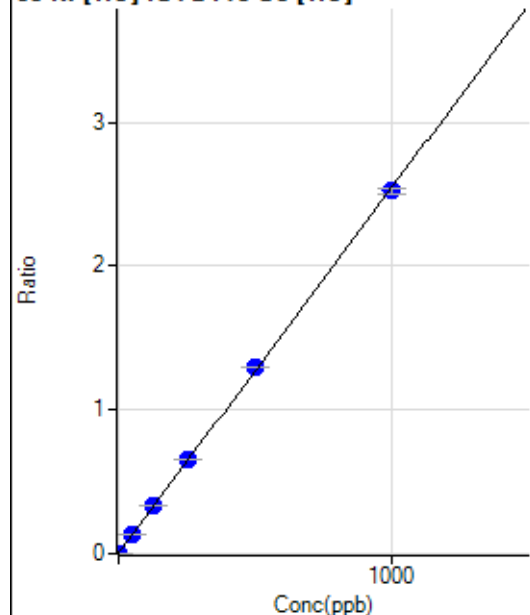
$$y = 0.0103 * x + 4.5110\text{E-}004$$

$$R = 0.9999$$

$$DL = 0.0457$$

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	364.45	0.0025	P	4.5
2	☐	1.000	1.099	778.92	0.0053	P	11.8
3	☐	50.000	53.876	20217.03	0.1393	P	1.0
4	☐	125.000	132.473	47718.94	0.3390	P	1.0
5	☐	250.000	257.180	90433.69	0.6558	P	0.3
6	☐	500.000	510.151	177092.95	1.2984	P	0.8
7	☐	1000.000	992.002	345669.37	2.5223	P	1.3
8	☐			3027.00	0.0220	P	2.0

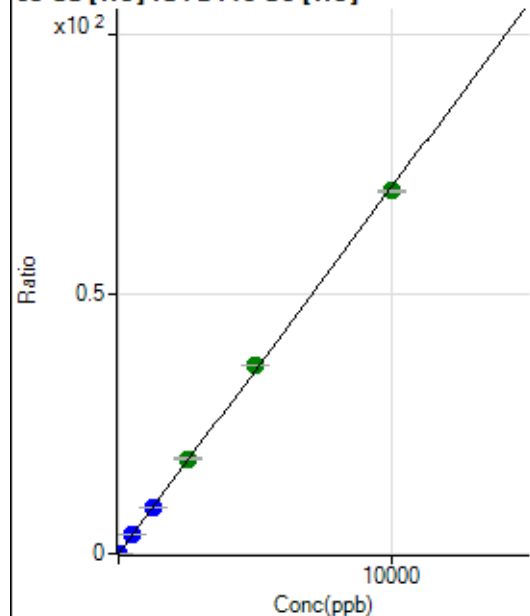
$$y = 0.0025 * x + 0.0025$$

$$R = 0.9999$$

$$DL = 0.132$$

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	677.80	0.0046	P	2.1
2	☐	2.000	1.919	2673.60	0.0182	P	7.2
3	☐	500.000	515.298	527264.45	3.6343	P	0.7
4	☐	1250.000	1266.648	1256576.26	8.9267	P	0.4
5	☐	2500.000	2592.515	2518929.56	18.2658	A	0.9
6	☐	5000.000	5144.439	4943252.60	36.2410	A	0.5
7	☐	10000.000	9901.806	9559445.14	69.7509	A	0.6
8	☐			3462.66	0.0252	P	2.5

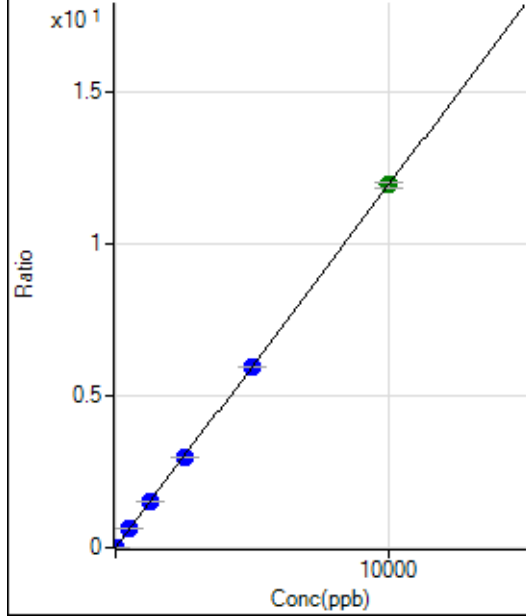
$$y = 0.0070 * x + 0.0046$$

$$R = 0.9998$$

$$DL = 0.04063$$

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	167.78	0.0011	P	11.8
2	☐	5.000	4.855	1023.38	0.0069	P	3.0
3	☐	500.000	515.504	89529.21	0.6171	P	0.4
4	☐	1250.000	1266.135	213118.02	1.5140	P	1.0
5	☐	2500.000	2502.884	412571.16	2.9918	P	0.7
6	☐	5000.000	4979.357	811681.92	5.9508	P	0.4
7	☐	10000.000	10006.808	1638642.23	11.9579	A	1.9
8	☐			677.80	0.0049	P	9.9

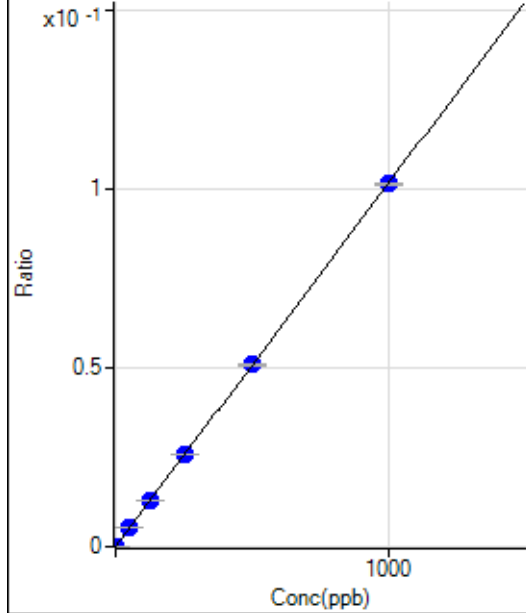
$$y = 0.0012 * x + 0.0011$$

$$R = 1.0000$$

$$DL = 0.3395$$

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	2.22	0.0000	P	173.
2	☐	1.000	0.859	103.34	0.0001	P	23.5
3	☐	50.000	52.058	6095.75	0.0053	P	3.7
4	☐	125.000	127.040	14413.73	0.0129	P	0.6
5	☐	250.000	253.561	28388.36	0.0257	P	0.5
6	☐	500.000	501.001	55757.48	0.0509	P	1.3
7	☐	1000.000	998.252	111807.08	0.1014	P	0.6
8	☐			112.22	0.0001	P	7.5

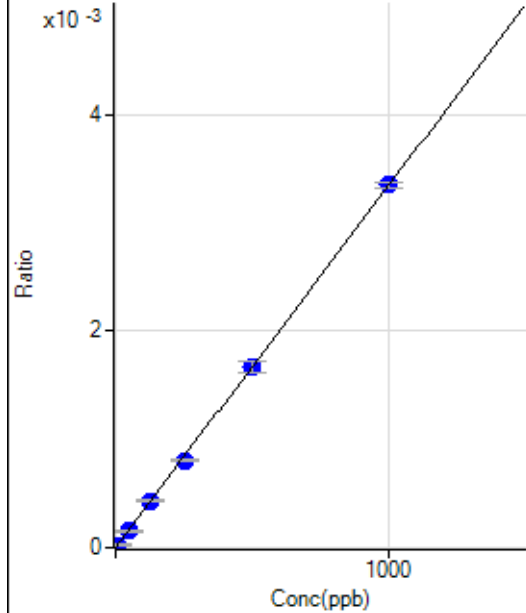
$$y = 1.0154E-004 * x + 1.8873E-006$$

$$R = 1.0000$$

$$DL = 0.09658$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	0.00	0.0000	P	
2	☐	5.000	6.875	26.67	0.0000	P	49.8
3	☐	50.000	45.278	174.45	0.0002	P	11.9
4	☐	125.000	130.122	485.57	0.0004	P	5.8
5	☐	250.000	239.256	881.15	0.0008	P	2.2
6	☐	500.000	500.173	1831.24	0.0017	P	6.2
7	☐	1000.000	1002.186	3692.72	0.0033	P	1.9
8	☐			4.45	0.0000	P	86.6

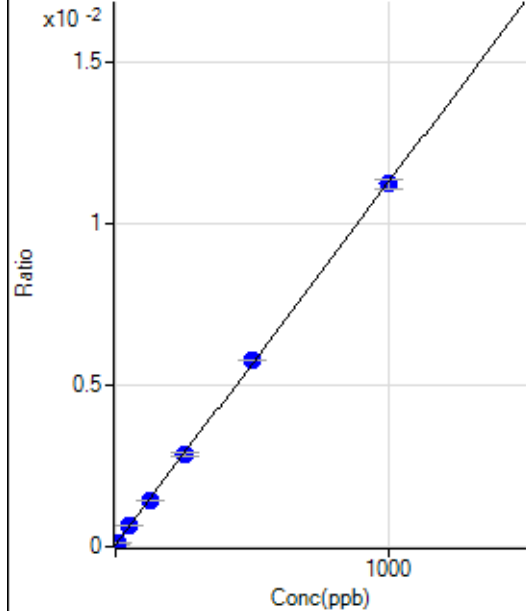
$$y = 3.3403\text{E-}006 * x + 0.0000\text{E}+000$$

$$R = 0.9999$$

$$DL = 0$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	71.11	0.0001	P	30.7
2	☐	5.000	4.496	130.00	0.0001	P	24.7
3	☐	50.000	52.014	743.36	0.0006	P	5.0
4	☐	125.000	122.140	1598.99	0.0014	P	2.2
5	☐	250.000	249.704	3154.81	0.0029	P	3.1
6	☐	500.000	509.028	6323.64	0.0058	P	0.8
7	☐	1000.000	995.820	12384.14	0.0112	P	2.3
8	☐			70.00	0.0001	P	39.8

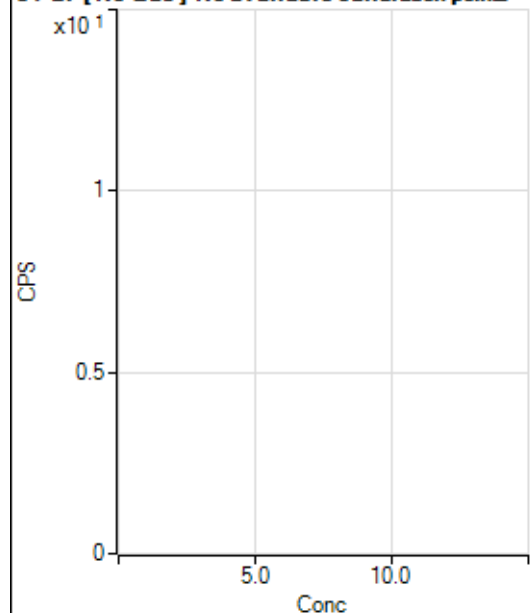
$$y = 1.1214\text{E-}005 * x + 6.1607\text{E-}005$$

$$R = 0.9999$$

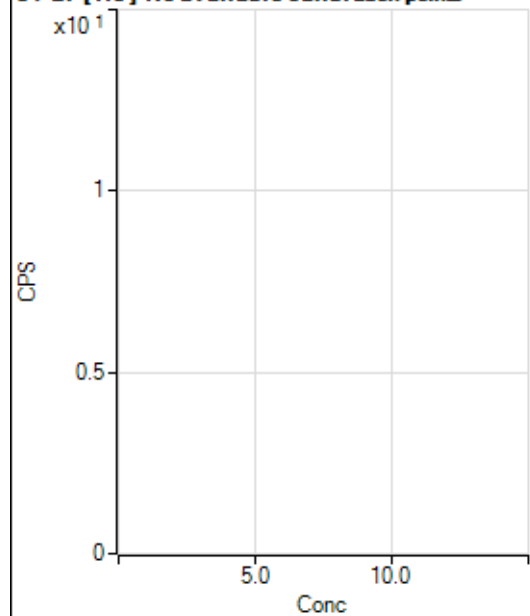
$$DL = 5.061$$

Weight: <None>

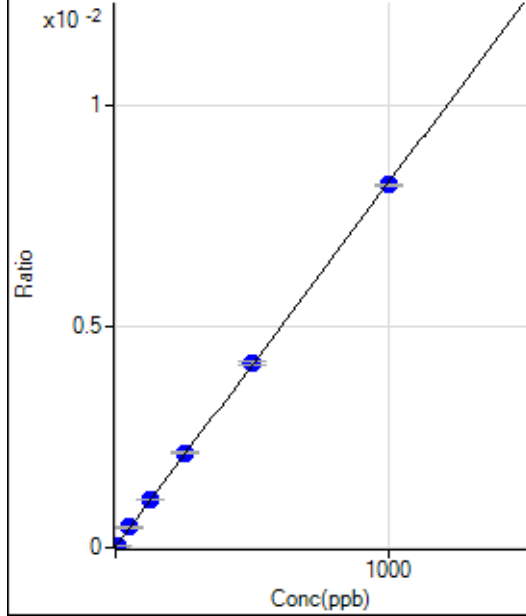
Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			14065.67		P	1.8
2	☐			14184.68		P	2.0
3	☐			13799.89		P	0.5
4	☐			13407.30		P	1.2
5	☐			13266.04		P	2.0
6	☐			13021.38		P	0.6
7	☐			13273.82		P	1.4
8	☐			13511.85		P	0.9

81 Br [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			21.11		P	39.7
2	☐			31.11		P	37.6
3	☐			21.11		P	24.1
4	☐			32.22		P	15.8
5	☐			25.56		P	32.8
6	☐			25.56		P	54.3
7	☐			43.33		P	35.3
8	☐			24.45		P	28.4

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	63.50	0.0000	P	19.9
2	☐	5.000	5.457	276.18	0.0001	P	6.1
3	☐	50.000	54.081	2181.50	0.0005	P	2.0
4	☐	125.000	130.746	5082.63	0.0011	P	1.1
5	☐	250.000	259.154	9825.32	0.0021	P	1.1
6	☐	500.000	505.524	19090.22	0.0042	P	1.8
7	☐	1000.000	994.025	38101.98	0.0082	P	0.7
8	☐			93.54	0.0000	P	38.6

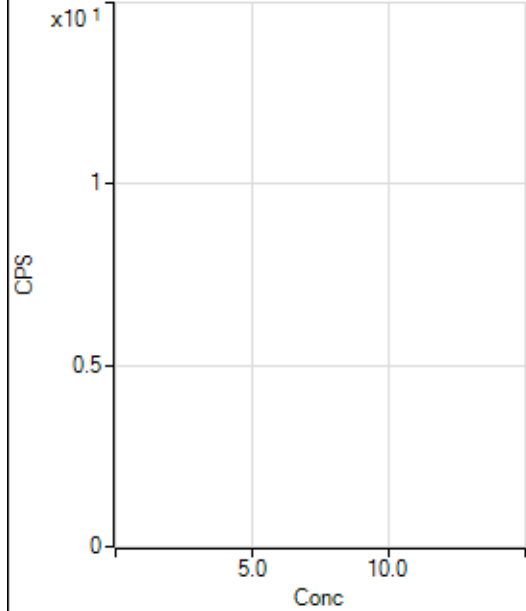
$$y = 8.2414\text{E-}006 * x + 1.3781\text{E-}005$$

$$R = 0.9999$$

$$DL = 0.9983$$

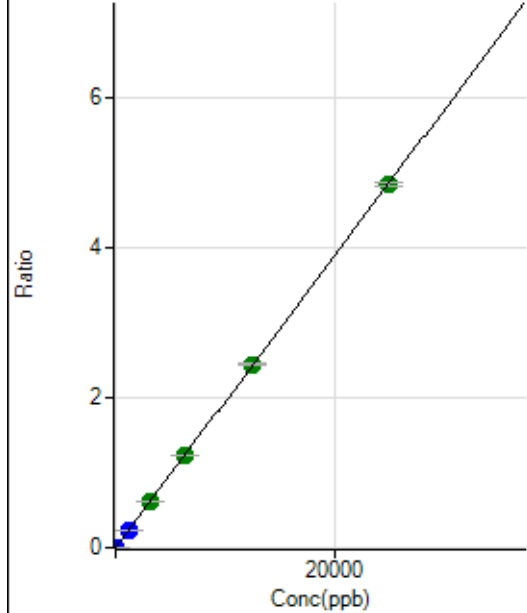
Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐			34.44		P	47.7
2	☐			41.11		P	23.4
3	☐			35.55		P	44.3
4	☐			57.78		P	31.8
5	☐			50.00		P	23.1
6	☐			34.44		P	5.6
7	☐			92.22		P	17.1
8	☐			45.55		P	52.9

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	277.78	0.0001	P	9.5
2	☐	1.000	0.957	1157.84	0.0002	P	2.5
3	☐	1250.000	1222.067	1128716.07	0.2377	P	1.4
4	☐	3125.000	3174.312	2875380.38	0.6174	A	0.3
5	☐	6250.000	6353.668	5648377.21	1.2357	A	0.8
6	☐	12500.000	12603.929	11194891.08	2.4513	A	1.0
7	☐	25000.000	24917.351	22500950.22	4.8460	A	1.0
8	☐			3410.43	0.0008	P	2.4

$$y = 1.9448\text{E-}004 * x + 6.0137\text{E-}005$$

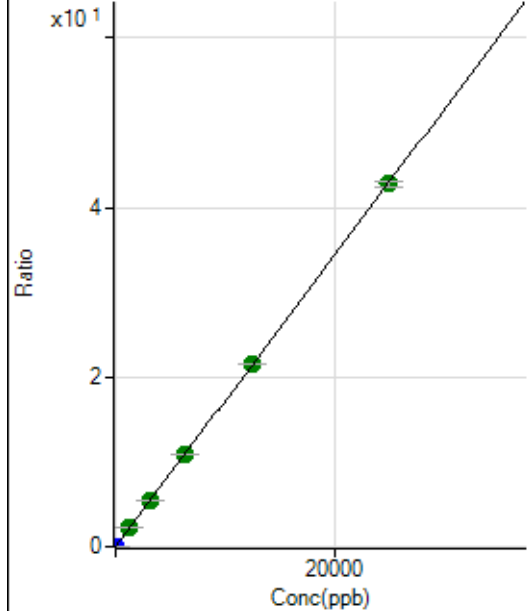
$$R = 1.0000$$

$$DL = 0.08779$$

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	2037.94	0.0004	P	0.8
2	☐	1.000	0.947	9711.06	0.0021	P	1.9
3	☐	1250.000	1268.149	10330900.40	2.1758	A	1.0
4	☐	3125.000	3154.403	25201859.35	5.4114	A	1.4
5	☐	6250.000	6331.017	49641017.59	10.8605	A	0.8
6	☐	12500.000	12562.947	98421865.20	21.5507	A	0.7
7	☐	25000.000	24943.690	198676112.5	42.7883	A	1.3
8	☐			30284.51	0.0069	P	3.0

$$y = 0.0017 * x + 4.4029\text{E-}004$$

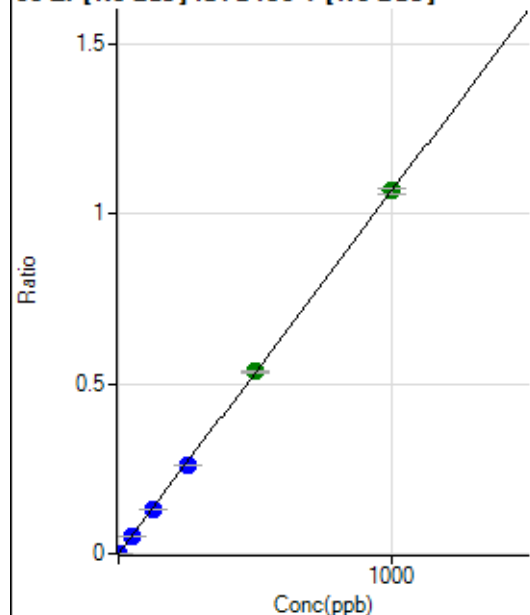
$$R = 1.0000$$

$$DL = 0.00647$$

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	165.56	0.0000	P	15.0
2	☐	1.000	0.870	4526.30	0.0010	P	0.5
3	☐	50.000	48.471	245514.23	0.0517	P	1.4
4	☐	125.000	121.368	602750.98	0.1294	P	1.2
5	☐	250.000	243.098	1184742.34	0.2592	P	0.8
6	☐	500.000	502.368	2446075.78	0.5356	A	1.3
7	☐	1000.000	1001.072	4955519.55	1.0672	A	1.4
8	☐			2678.05	0.0006	P	2.6

$$y = 0.0011 * x + 3.5697E-005$$

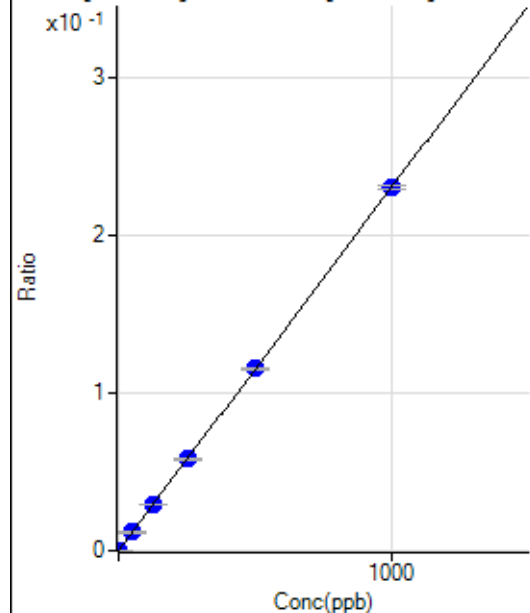
$$R = 1.0000$$

$$DL = 0.01511$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	26.67	0.0000	P	30.8
2	☐	1.000	0.884	985.60	0.0002	P	13.5
3	☐	50.000	50.500	55281.31	0.0116	P	1.8
4	☐	125.000	125.725	134959.00	0.0290	P	1.5
5	☐	250.000	251.669	265115.31	0.0580	P	0.5
6	☐	500.000	501.139	527452.24	0.1155	P	1.0
7	☐	1000.000	998.898	1068869.57	0.2302	P	0.9
8	☐			561.13	0.0001	P	2.1

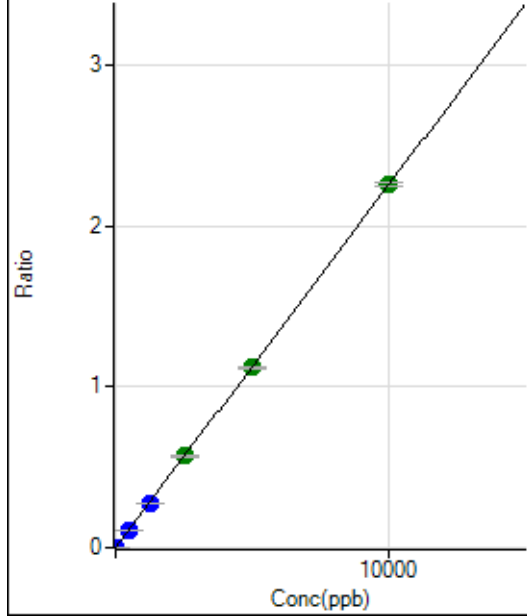
$$y = 2.3045E-004 * x + 5.7268E-006$$

$$R = 1.0000$$

$$DL = 0.023$$

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	456.68	0.0001	P	7.8
2	☐	5.000	5.003	5766.74	0.0012	P	5.5
3	☐	500.000	488.399	523408.17	0.1102	P	1.3
4	☐	1250.000	1215.578	1277105.06	0.2742	P	0.8
5	☐	2500.000	2531.503	2609853.89	0.5710	A	1.0
6	☐	5000.000	4975.365	5124560.62	1.1221	A	1.1
7	☐	10000.000	10009.324	10481117.90	2.2573	A	1.2
8	☐			5592.23	0.0013	P	2.6

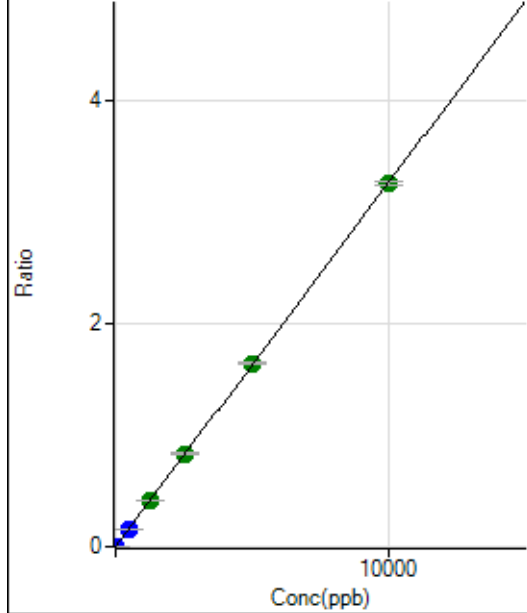
$$y = 2.2551\text{E-}004 * x + 9.8689\text{E-}005$$

$$R = 1.0000$$

$$DL = 0.103$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1325.63	0.0003	P	5.3
2	☐	5.000	4.358	8026.72	0.0017	P	1.8
3	☐	500.000	490.095	759899.46	0.1600	P	1.8
4	☐	1250.000	1255.479	1907392.35	0.4095	A	0.8
5	☐	2500.000	2549.265	3799879.42	0.8313	A	1.1
6	☐	5000.000	5032.100	7492808.57	1.6406	A	1.1
7	☐	10000.000	9971.445	15094069.91	3.2508	A	0.9
8	☐			8977.27	0.0020	P	5.3

$$y = 3.2598\text{E-}004 * x + 2.8673\text{E-}004$$

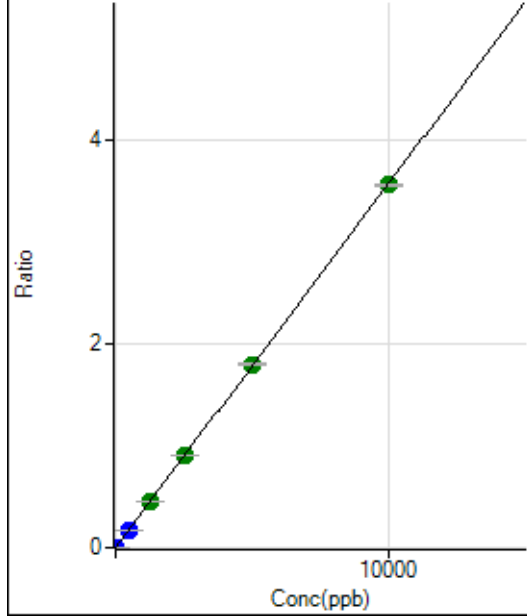
$$R = 1.0000$$

$$DL = 0.1411$$

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	206.67	0.0000	P	19.5
2	☐	5.000	4.325	7453.07	0.0016	P	3.0
3	☐	500.000	492.774	833884.16	0.1756	P	1.6
4	☐	1250.000	1268.822	2105685.09	0.4522	A	2.6
5	☐	2500.000	2529.447	4120002.75	0.9013	A	0.7
6	☐	5000.000	5042.727	8206415.64	1.7969	A	0.9
7	☐	10000.000	9969.284	16494404.34	3.5523	A	0.3
8	☐			8952.81	0.0020	P	6.9

$$y = 3.5632E-004 * x + 4.4747E-005$$

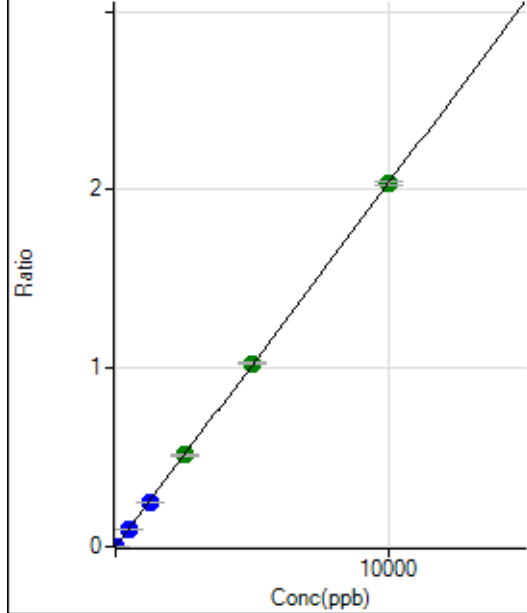
$$R = 1.0000$$

$$DL = 0.0734$$

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	292.23	0.0001	P	27.2
2	☐	5.000	4.066	4189.53	0.0009	P	3.2
3	☐	500.000	494.355	478368.82	0.1008	P	1.4
4	☐	1250.000	1225.315	1162581.54	0.2496	P	0.9
5	☐	2500.000	2522.933	2348929.17	0.5139	A	1.0
6	☐	5000.000	5037.617	4686260.55	1.0261	A	1.0
7	☐	10000.000	9978.827	9437403.26	2.0325	A	1.1
8	☐			4650.78	0.0011	P	5.9

$$y = 2.0368E-004 * x + 6.3267E-005$$

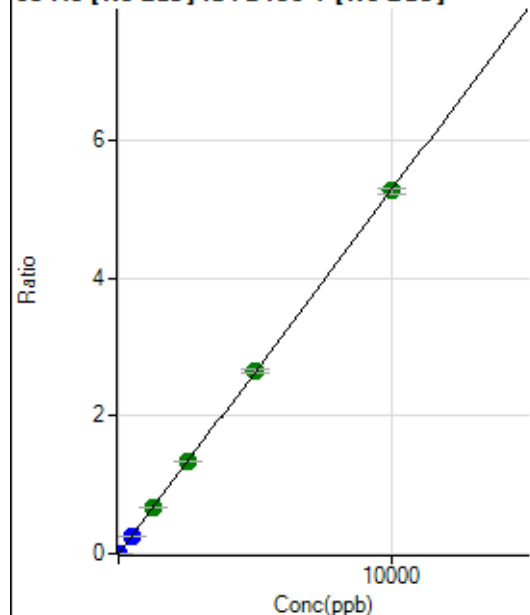
$$R = 1.0000$$

$$DL = 0.2534$$

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	226.67	0.0000	P	2.4
2	☐	5.000	4.228	10714.01	0.0023	P	2.7
3	☐	500.000	490.995	1229930.33	0.2590	P	1.8
4	☐	1250.000	1262.755	3102322.87	0.6661	A	1.0
5	☐	2500.000	2530.330	6100963.52	1.3348	A	0.5
6	☐	5000.000	5027.947	12112756.21	2.6523	A	1.3
7	☐	10000.000	9977.300	24437422.97	5.2630	A	1.4
8	☐			11262.21	0.0026	P	6.7

$$y = 5.2750E-004 * x + 4.8995E-005$$

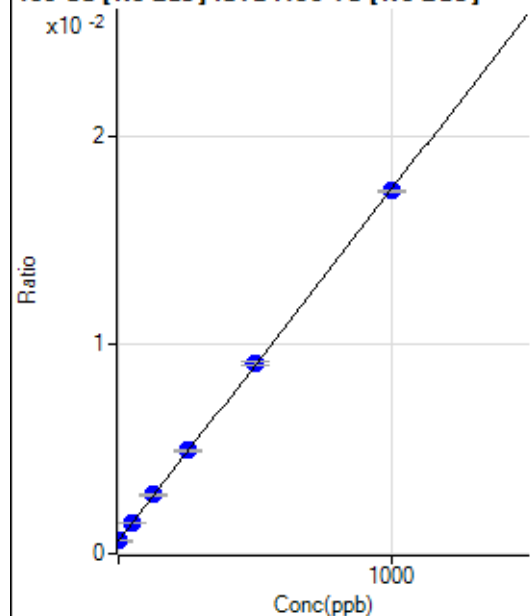
$$R = 1.0000$$

$$DL = 0.006736$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	2979.22	0.0006	P	6.1
2	☐	1.000	1.908	3188.16	0.0006	P	3.1
3	☐	50.000	52.749	7589.82	0.0015	P	1.6
4	☐	125.000	131.363	14000.16	0.0028	P	1.8
5	☐	250.000	256.513	24614.25	0.0049	P	1.3
6	☐	500.000	503.727	45402.98	0.0091	P	1.6
7	☐	1000.000	995.574	87173.72	0.0174	P	0.7
8	☐			2879.21	0.0006	P	5.6

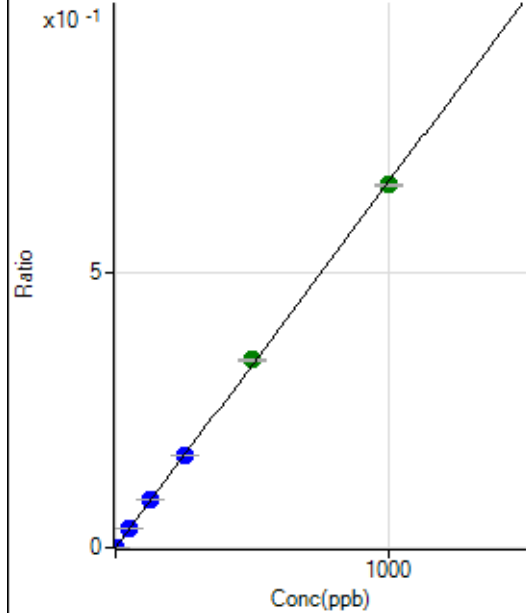
$$y = 1.6844E-005 * x + 6.1248E-004$$

$$R = 1.0000$$

$$DL = 6.605$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	50.00	0.0000	P	17.0
2	☐	1.000	0.935	3124.82	0.0006	P	4.1
3	☐	50.000	52.308	175844.05	0.0348	P	2.2
4	☐	125.000	129.308	425974.04	0.0860	P	0.5
5	☐	250.000	250.552	830985.03	0.1665	P	0.4
6	☐	500.000	513.599	1703908.60	0.3414	A	1.2
7	☐	1000.000	992.409	3308264.01	0.6596	A	0.3
8	☐			517.79	0.0001	P	9.8

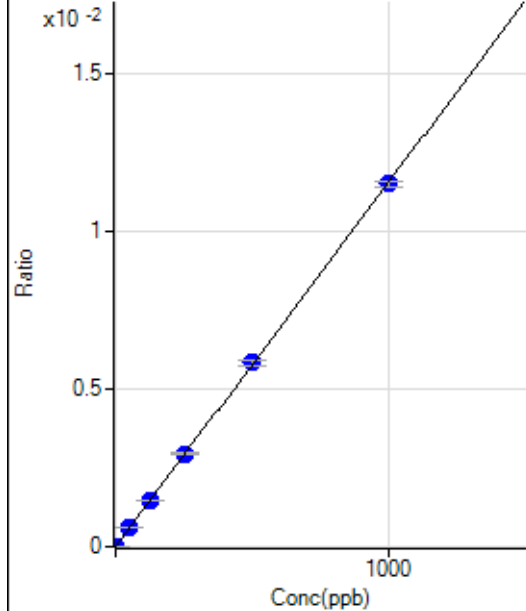
$$y = 6.6467E-004 * x + 1.0292E-005$$

$$R = 0.9999$$

$$DL = 0.00792$$

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	8.89	0.0000	P	94.7
2	☐	1.000	0.757	52.22	0.0000	P	19.2
3	☐	50.000	51.704	3032.57	0.0006	P	2.2
4	☐	125.000	128.448	7369.71	0.0015	P	0.2
5	☐	250.000	254.012	14665.27	0.0029	P	1.9
6	☐	500.000	504.679	29135.92	0.0058	P	2.6
7	☐	1000.000	996.142	57779.96	0.0115	P	1.3
8	☐			84.45	0.0000	P	27.2

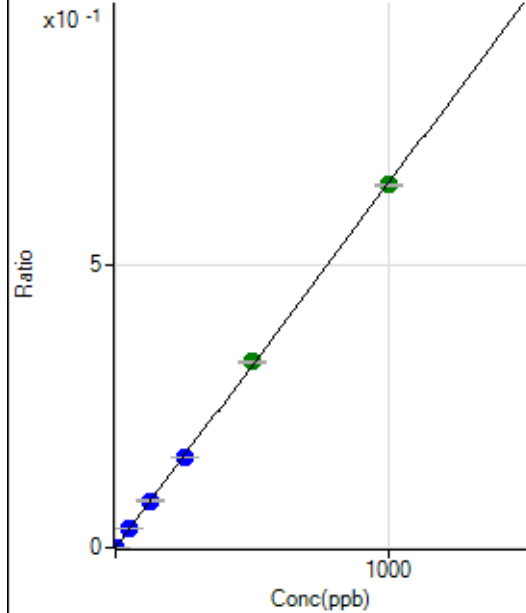
$$y = 1.1564E-005 * x + 1.7944E-006$$

$$R = 1.0000$$

$$DL = 0.4409$$

Weight: <None>

Min Conc: 0

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

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	7.78	0.0000	P	64.2
2	☐	1.000	0.969	3099.26	0.0006	P	5.5
3	☐	50.000	51.991	169565.69	0.0335	P	1.1
4	☐	125.000	128.663	411243.19	0.0830	P	1.3
5	☐	250.000	247.705	797150.88	0.1598	P	0.5
6	☐	500.000	509.767	1640972.46	0.3288	A	1.4
7	☐	1000.000	995.133	3219024.99	0.6418	A	0.8
8	☐			433.34	0.0001	P	15.7

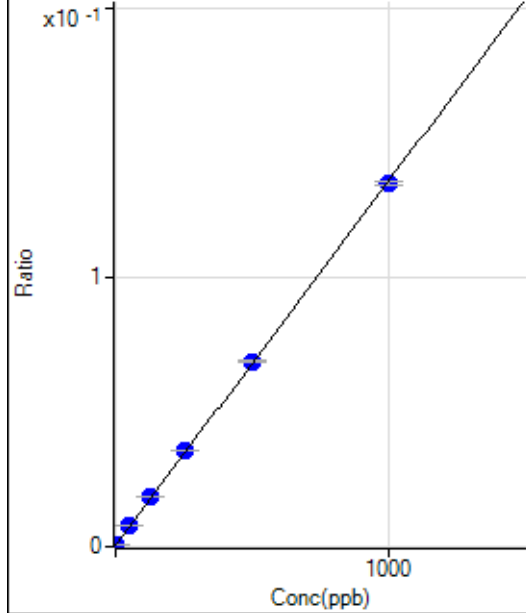
$$y = 6.4498\text{E-}004 * x + 1.6010\text{E-}006$$

$$R = 0.9999$$

$$DL = 0.00478$$

Weight: <None>

Min Conc: 0

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

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2085.90	0.0004	P	5.7
2	☐	1.000	1.117	2869.63	0.0006	P	2.4
3	☐	50.000	53.434	38773.77	0.0077	P	1.9
4	☐	125.000	134.184	92219.51	0.0186	P	0.2
5	☐	250.000	261.199	178711.68	0.0358	P	0.4
6	☐	500.000	506.158	344424.45	0.0690	P	0.9
7	☐	1000.000	992.801	676757.45	0.1349	P	1.0
8	☐			2154.12	0.0005	P	4.6

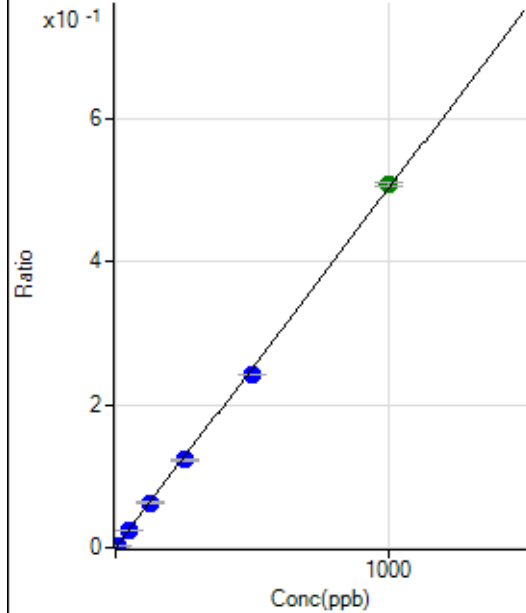
$$y = 1.3549\text{E-}004 * x + 4.2887\text{E-}004$$

$$R = 0.9999$$

$$DL = 0.5412$$

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	533.35	0.0001	P	6.7
2	☐	5.000	4.710	12255.28	0.0025	P	2.3
3	☐	50.000	50.245	128278.99	0.0254	P	1.0
4	☐	125.000	125.502	313208.09	0.0632	P	0.6
5	☐	250.000	243.701	611844.69	0.1226	P	1.5
6	☐	500.000	481.928	1209812.30	0.2424	P	0.9
7	☐	1000.000	1010.537	2548432.50	0.5081	A	1.0
8	☐			1904.59	0.0004	P	4.0

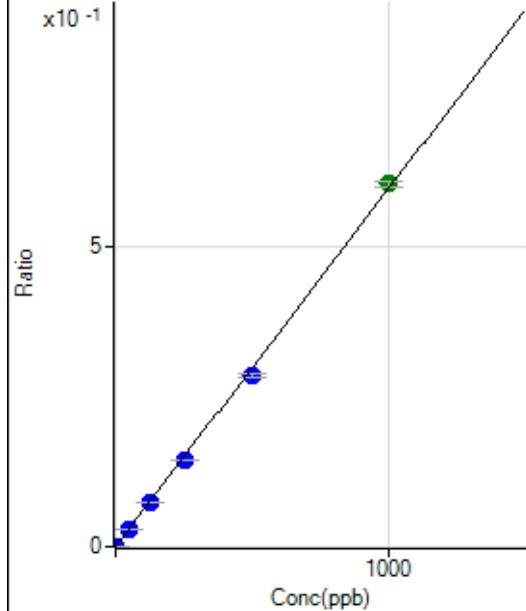
$$y = 5.0273\text{E-}004 * x + 1.0994\text{E-}004$$

$$R = 0.9997$$

$$DL = 0.0437$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	26.67	0.0000	P	10.0
2	☐	2.000	1.850	5503.33	0.0011	P	0.7
3	☐	50.000	49.221	148948.34	0.0295	P	0.7
4	☐	125.000	123.033	364838.02	0.0736	P	1.4
5	☐	250.000	240.434	717830.69	0.1439	P	0.6
6	☐	500.000	477.809	1426969.93	0.2859	P	1.5
7	☐	1000.000	1013.772	3042229.85	0.6066	A	1.5
8	☐			2149.07	0.0005	P	8.6

$$y = 5.9835\text{E-}004 * x + 5.4799\text{E-}006$$

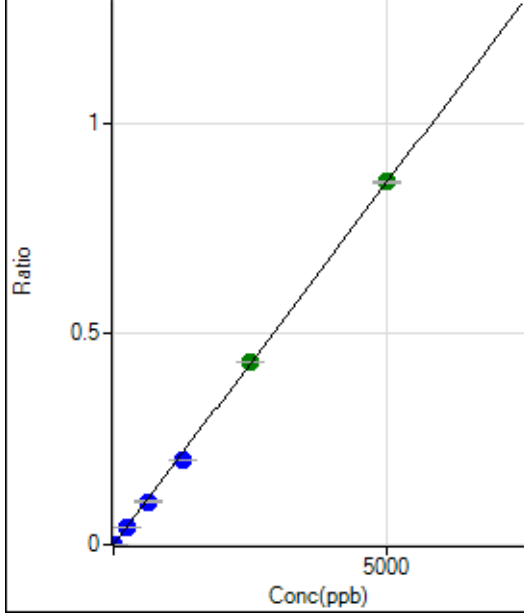
$$R = 0.9996$$

$$DL = 0.00274$$

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	51.11	0.0000	P	29.3
2	☐	10.000	9.168	7838.89	0.0016	P	3.2
3	☐	250.000	237.418	206176.26	0.0408	P	1.7
4	☐	625.000	593.951	505439.99	0.1020	P	1.4
5	☐	1250.000	1168.513	1001156.62	0.2007	P	0.7
6	☐	2500.000	2523.122	2162425.51	0.4332	A	0.5
7	☐	5000.000	5013.323	4317247.72	0.8608	A	0.6
8	☐			1919.04	0.0004	P	4.7

$$y = 1.7171\text{E-}004 * x + 1.0536\text{E-}005$$

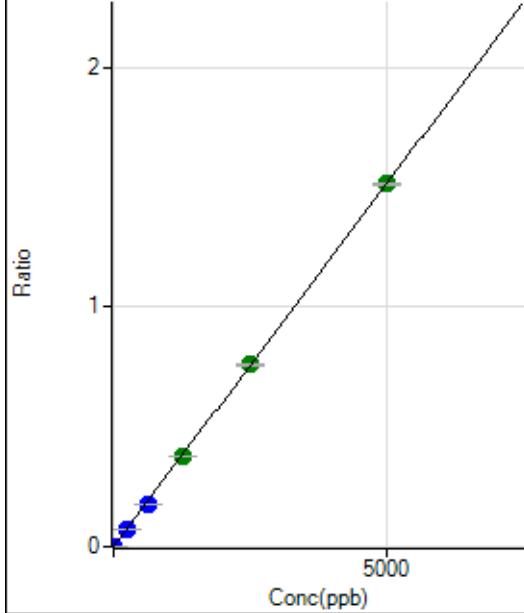
$$R = 0.9998$$

$$DL = 0.05397$$

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	80.00	0.0000	P	16.2
2	☐	10.000	9.136	13767.85	0.0028	P	2.8
3	☐	250.000	237.974	364524.79	0.0721	P	1.2
4	☐	625.000	592.016	888627.35	0.1793	P	1.2
5	☐	1250.000	1253.509	1894368.05	0.3797	A	0.7
6	☐	2500.000	2506.346	3789033.59	0.7591	A	1.2
7	☐	5000.000	5000.676	7595933.43	1.5146	A	0.7
8	☐			3274.86	0.0007	P	0.9

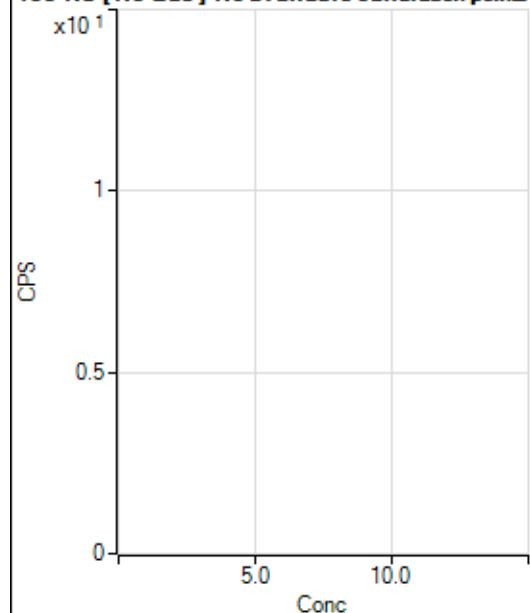
$$y = 3.0287\text{E-}004 * x + 1.6409\text{E-}005$$

$$R = 1.0000$$

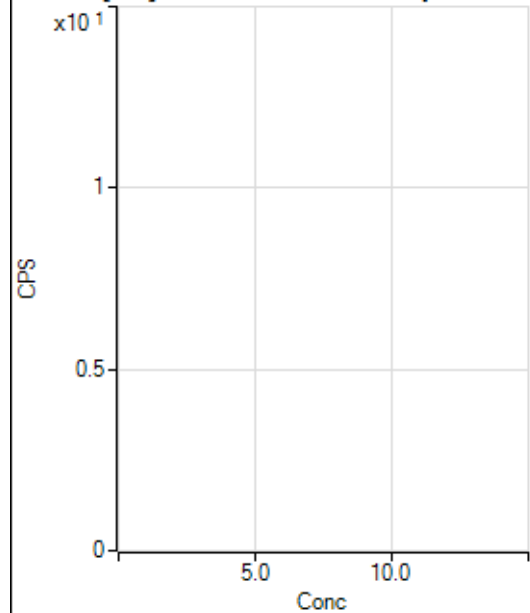
$$DL = 0.02641$$

Weight: <None>

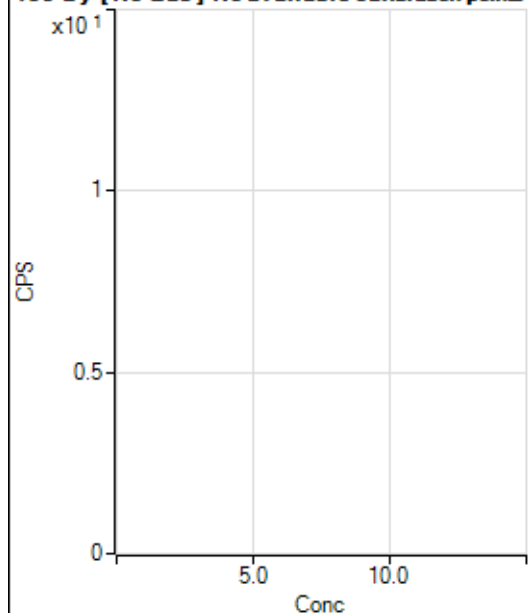
Min Conc: 0

150 Nd [No Gas] No available calibration points

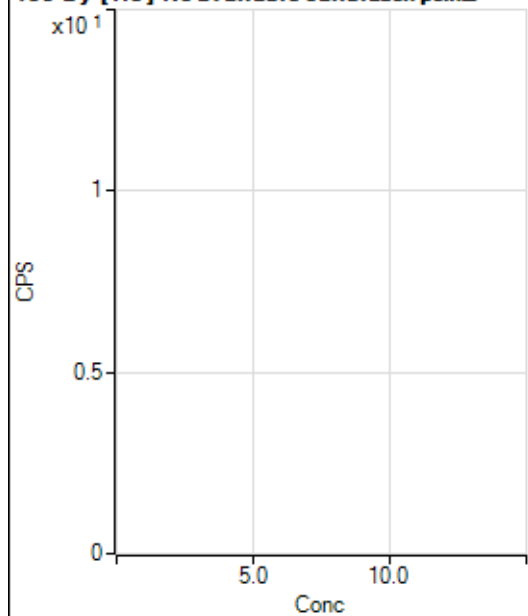
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			8.89		P	78.1
2	☐			8.89		P	43.3
3	☐			68.89		P	7.4
4	☐			172.23		P	4.5
5	☐			283.34		P	5.4
6	☐			586.69		P	5.9
7	☐			1134.50		P	2.9
8	☐			82.22		P	26.1

150 Nd [He] No available calibration points

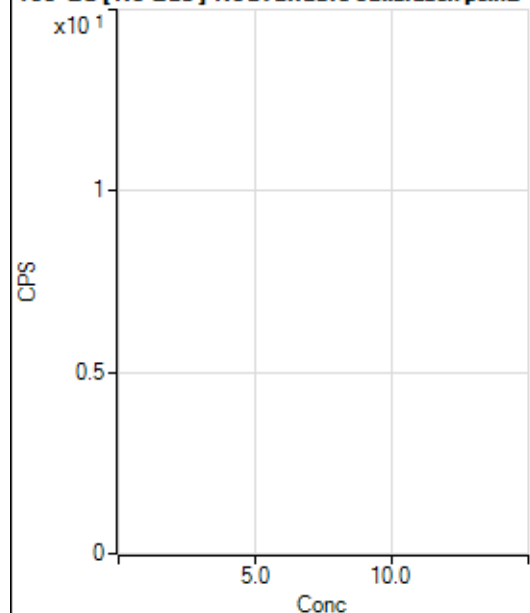
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			4.44		P	114.
2	☐			4.45		P	86.6
3	☐			8.89		P	21.6
4	☐			26.67		P	54.5
5	☐			50.00		P	20.0
6	☐			141.12		P	11.9
7	☐			225.56		P	11.1
8	☐			36.67		P	32.8

156 Dy [No Gas] No available calibration points

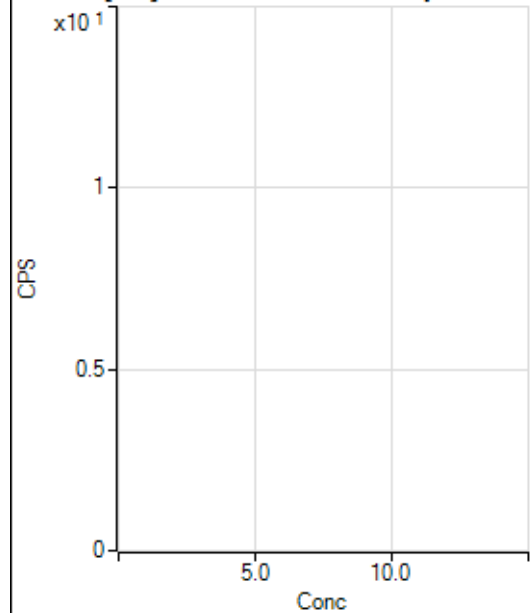
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			5.55		P	69.3
2	☐			6.67		P	100.
3	☐			13.33		P	25.0
4	☐			34.44		P	34.0
5	☐			45.55		P	34.6
6	☐			108.89		P	9.4
7	☐			211.11		P	6.0
8	☐			196.67		P	8.5

156 Dy [He] No available calibration points

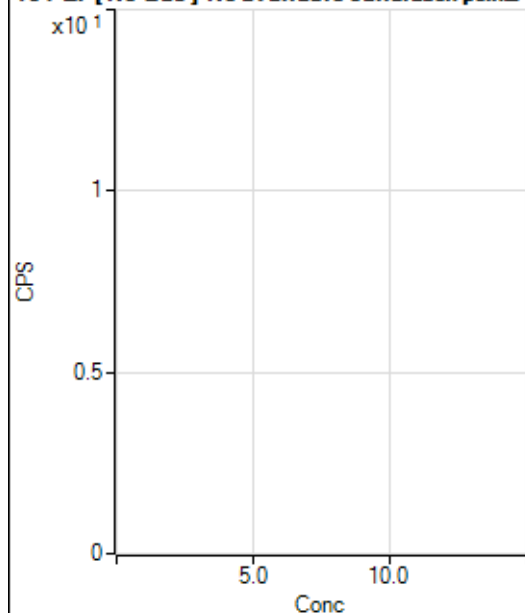
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			3.33		P	0.0
2	☐			4.44		P	173.
3	☐			17.78		P	43.3
4	☐			27.78		P	36.7
5	☐			45.56		P	47.0
6	☐			121.12		P	19.3
7	☐			220.00		P	7.9
8	☐			94.44		P	14.7

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

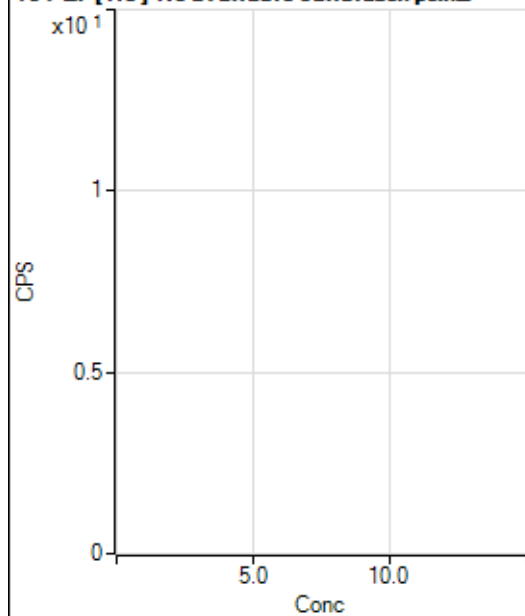
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			24.44		P	75.1
2	☐			14.45		P	26.7
3	☐			24.44		P	7.9
4	☐			33.33		P	26.5
5	☐			50.00		P	24.0
6	☐			48.89		P	20.8
7	☐			87.78		P	15.3
8	☐			150.01		P	15.4

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			177.78		P	4.7
2	☐			185.56		P	13.0
3	☐			173.34		P	15.4
4	☐			170.00		P	17.6
5	☐			196.67		P	11.9
6	☐			168.89		P	12.7
7	☐			212.23		P	7.1
8	☐			223.34		P	4.5

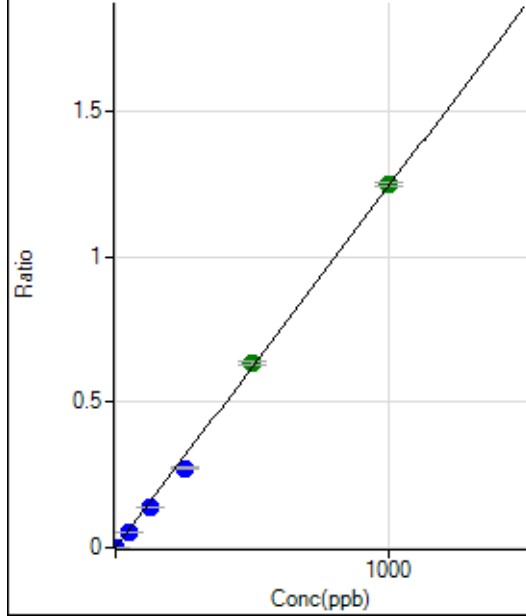
164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			28.89		P	52.0
2	☐			25.56		P	30.1
3	☐			33.33		P	26.4
4	☐			38.89		P	21.6
5	☐			47.78		P	8.1
6	☐			68.89		P	14.0
7	☐			95.56		P	13.2
8	☐			153.34		P	9.5

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			13.33		P	66.2
2	☐			22.22		P	34.7
3	☐			24.44		P	70.0
4	☐			30.00		P	48.4
5	☐			31.11		P	53.9
6	☐			42.22		P	19.9
7	☐			77.78		P	26.2
8	☐			94.44		P	8.1

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	76.67	0.0000	P	23.6
2	☐	1.000	0.816	3567.18	0.0010	P	4.0
3	☐	50.000	43.512	187512.84	0.0540	P	0.9
4	☐	125.000	110.565	463690.79	0.1373	P	0.7
5	☐	250.000	220.175	918402.43	0.2734	P	1.4
6	☐	500.000	511.065	2121713.49	0.6345	A	1.5
7	☐	1000.000	1004.053	4189476.46	1.2465	A	1.0
8	☐			497.79	0.0002	P	10.3

$$y = 0.0012 * x + 2.2838E-005$$

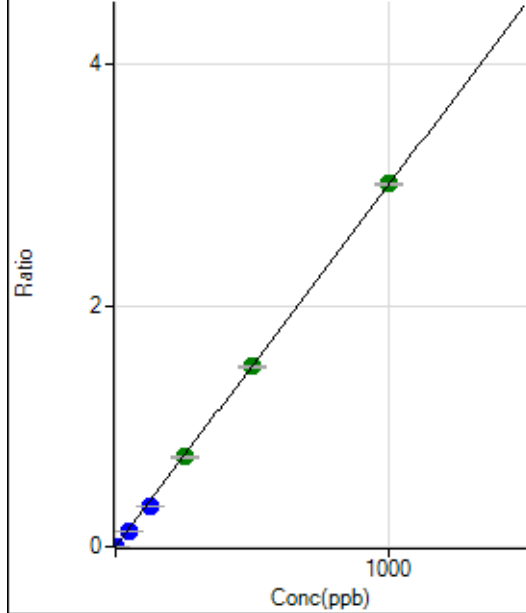
$$R = 0.9994$$

$$DL = 0.01304$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	151.11	0.0000	P	17.6
2	☐	1.000	0.812	8549.44	0.0025	P	1.6
3	☐	50.000	43.455	452689.76	0.1305	P	1.0
4	☐	125.000	109.936	1114620.70	0.3300	P	0.4
5	☐	250.000	247.336	2494419.84	0.7424	A	1.0
6	☐	500.000	498.855	5006931.73	1.4973	A	1.5
7	☐	1000.000	1003.449	10123018.05	3.0118	A	0.4
8	☐			1238.96	0.0004	P	3.5

$$y = 0.0030 * x + 4.5349E-005$$

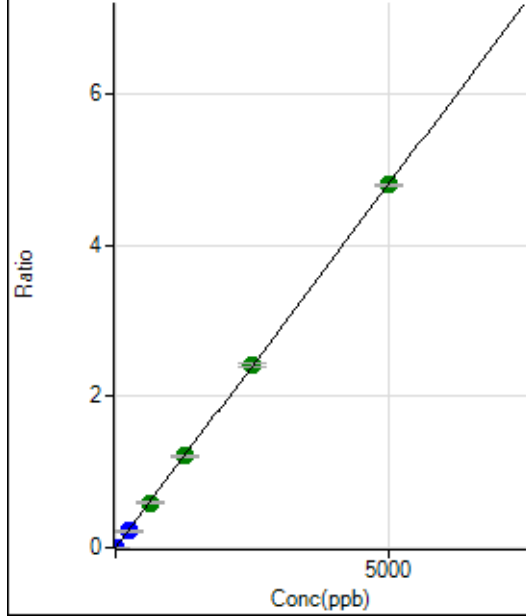
$$R = 0.9999$$

$$DL = 0.007995$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	163.34	0.0000	P	27.4
2	☐	1.000	0.865	3035.93	0.0009	P	0.9
3	☐	250.000	224.952	751080.14	0.2165	P	1.2
4	☐	625.000	621.407	2019414.12	0.5979	A	0.9
5	☐	1250.000	1257.185	4063920.08	1.2096	A	1.3
6	☐	2500.000	2515.217	8091813.63	2.4199	A	1.7
7	☐	5000.000	4992.297	16142879.76	4.8031	A	0.8
8	☐			6901.82	0.0024	P	1.4

$$y = 9.6209\text{E-}004 * x + 4.9156\text{E-}005$$

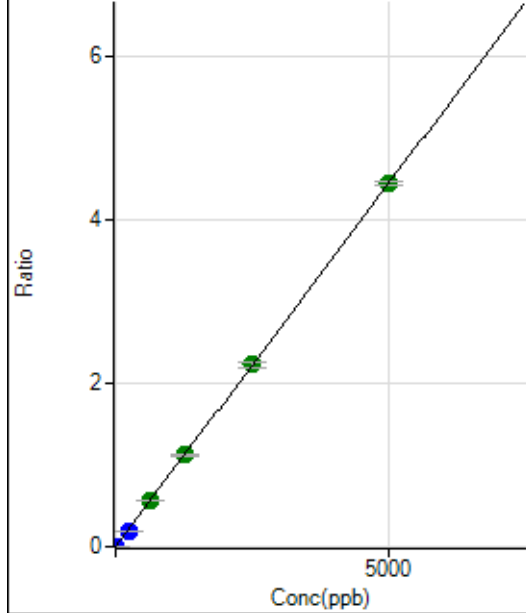
$$R = 1.0000$$

$$DL = 0.04196$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	127.78	0.0000	P	10.6
2	☐	1.000	0.814	2623.61	0.0008	P	1.9
3	☐	250.000	216.838	668879.66	0.1928	P	1.0
4	☐	625.000	624.865	1876124.92	0.5555	A	0.8
5	☐	1250.000	1258.906	3759734.35	1.1191	A	0.8
6	☐	2500.000	2504.926	7445220.03	2.2266	A	2.3
7	☐	5000.000	4996.986	14928477.28	4.4418	A	1.2
8	☐			6237.04	0.0021	P	1.3

$$y = 8.8888\text{E-}004 * x + 3.8316\text{E-}005$$

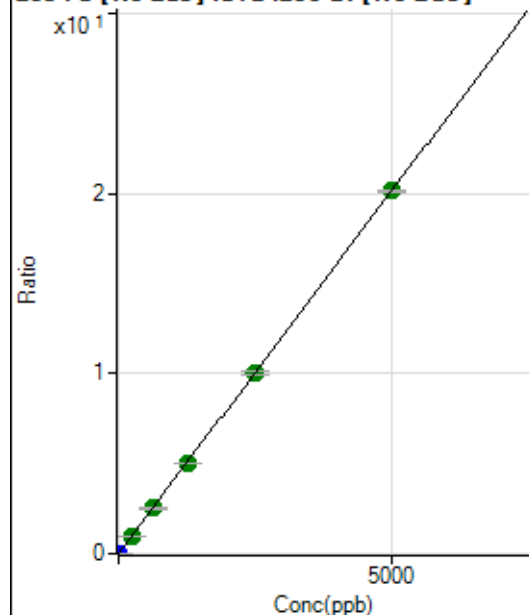
$$R = 1.0000$$

$$DL = 0.01374$$

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	627.79	0.0002	P	12.9
2	☐	1.000	0.817	11993.30	0.0035	P	1.5
3	☐	250.000	235.037	3288636.73	0.9478	A	1.0
4	☐	625.000	624.065	8498896.64	2.5163	A	1.2
5	☐	1250.000	1249.332	16924246.45	5.0372	A	0.8
6	☐	2500.000	2497.356	33668037.84	10.0690	A	2.2
7	☐	5000.000	5002.354	67787291.21	20.1686	A	0.3
8	☐			28233.98	0.0097	P	0.7

$$y = 0.0040 * x + 1.8836E-004$$

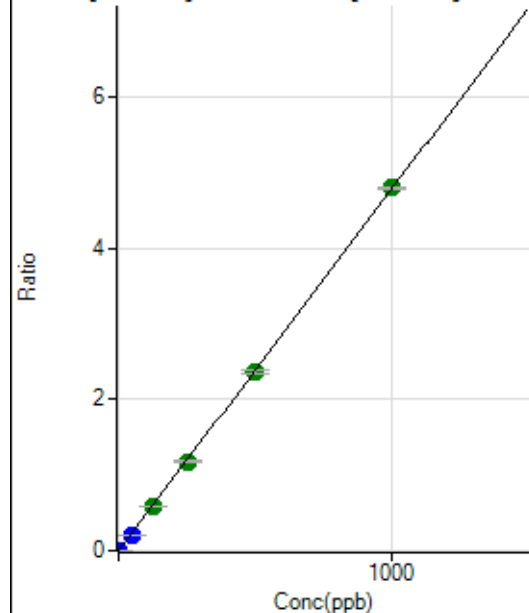
$$R = 1.0000$$

$$DL = 0.01803$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	24.44	0.0000	P	73.9
2	☐	1.000	0.775	12790.66	0.0037	P	0.8
3	☐	50.000	41.651	691003.61	0.1992	P	0.7
4	☐	125.000	121.306	1959011.41	0.5800	A	0.7
5	☐	250.000	246.757	3963727.16	1.1798	A	1.1
6	☐	500.000	495.248	7918072.59	2.3680	A	2.0
7	☐	1000.000	1004.066	16135306.15	4.8008	A	0.5
8	☐			851.15	0.0003	P	3.5

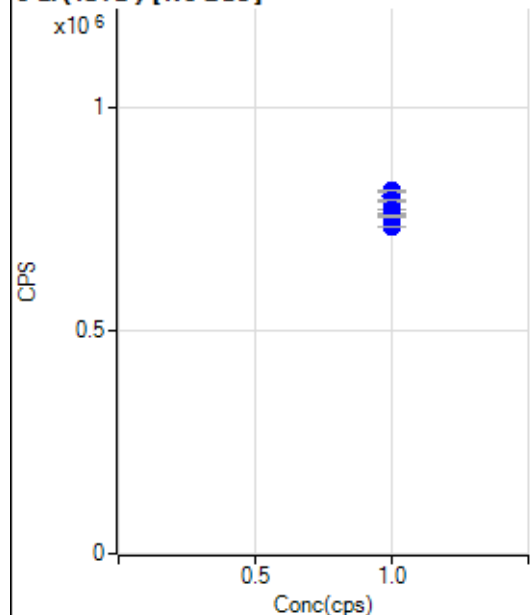
$$y = 0.0048 * x + 7.4424E-006$$

$$R = 1.0000$$

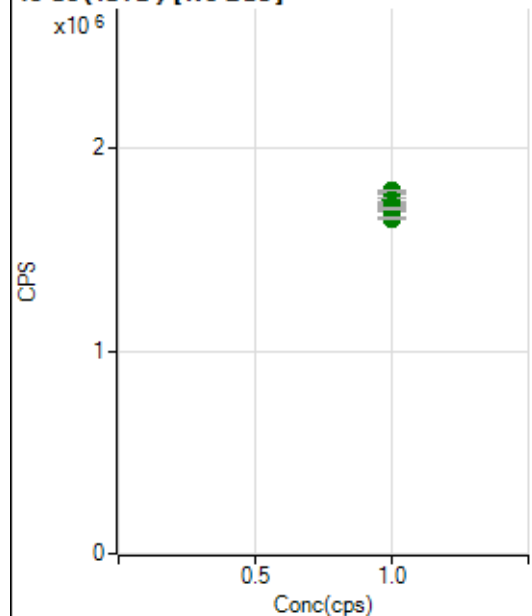
$$DL = 0.003451$$

Weight: <None>

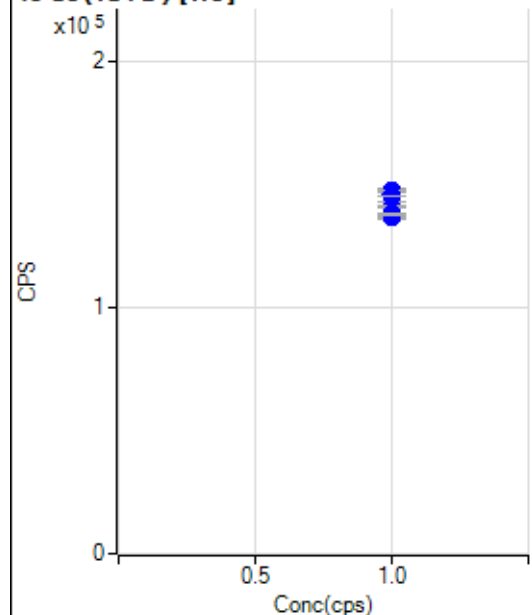
Min Conc: 0

6 Li (ISTD) [No Gas]

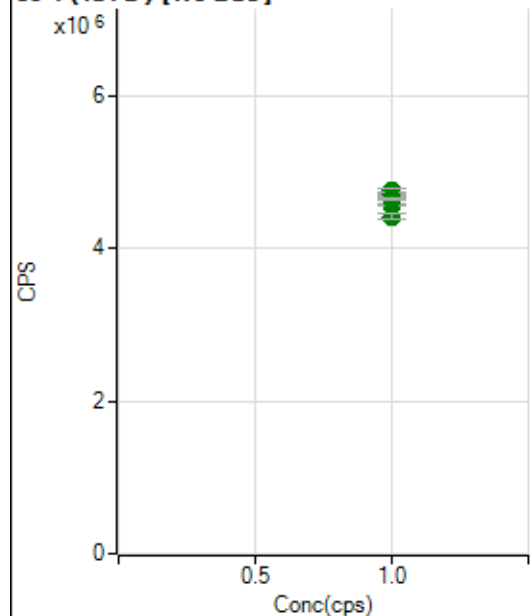
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		803382.75		P	2.2
2	☐	1.000		813436.39		P	0.3
3	☐	1.000		813387.25		P	0.9
4	☐	1.000		792499.65		P	0.4
5	☐	1.000		772251.49		P	0.3
6	☐	1.000		762459.47		P	0.5
7	☐	1.000		755832.30		P	0.3
8	☐	1.000		732775.44		P	0.4

45 Sc (ISTD) [No Gas]

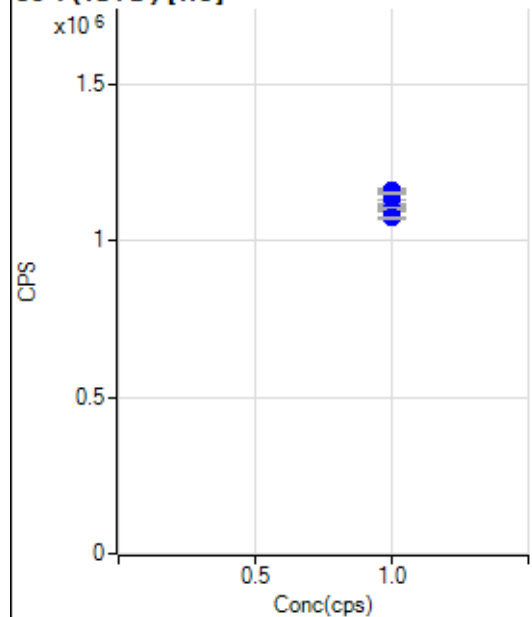
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1748638.72		A	3.2
2	☐	1.000		1779906.92		A	0.2
3	☐	1.000		1788320.16		A	0.2
4	☐	1.000		1744325.39		A	0.6
5	☐	1.000		1712426.57		A	0.6
6	☐	1.000		1689942.56		A	0.6
7	☐	1.000		1704131.70		A	0.4
8	☐	1.000		1652614.63		A	0.9

45 Sc (ISTD) [He]

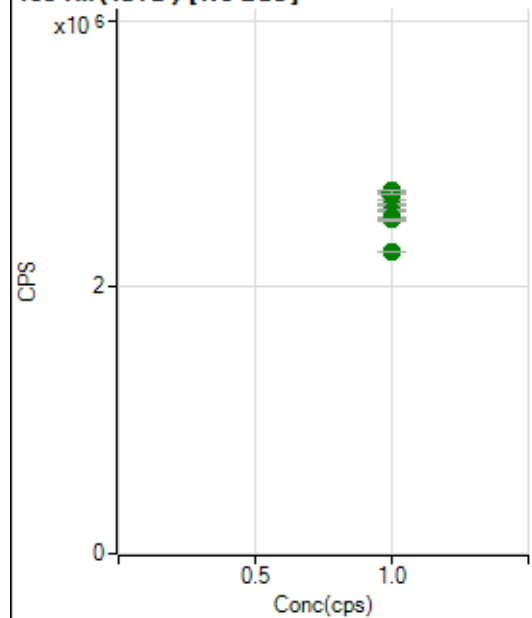
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		145842.18		P	3.8
2	☐	1.000		147270.26		P	0.7
3	☐	1.000		145079.69		P	0.3
4	☐	1.000		140768.18		P	0.4
5	☐	1.000		137905.73		P	0.5
6	☐	1.000		136399.01		P	0.1
7	☐	1.000		137056.27		P	1.3
8	☐	1.000		137636.67		P	0.3

89 Y (ISTD) [No Gas]

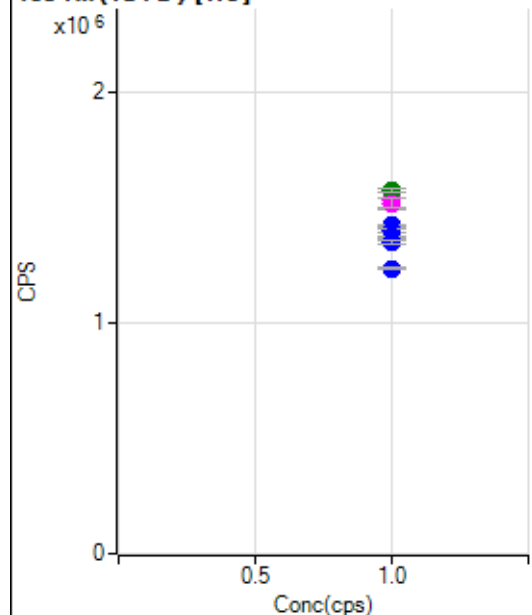
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4628181.22		A	3.4
2	☐	1.000		4701045.73		A	0.9
3	☐	1.000		4748408.44		A	1.0
4	☐	1.000		4657236.84		A	0.4
5	☐	1.000		4570792.74		A	0.7
6	☐	1.000		4566983.48		A	0.2
7	☐	1.000		4643255.14		A	0.1
8	☐	1.000		4411935.25		A	1.4

89 Y(ISTD) [He]

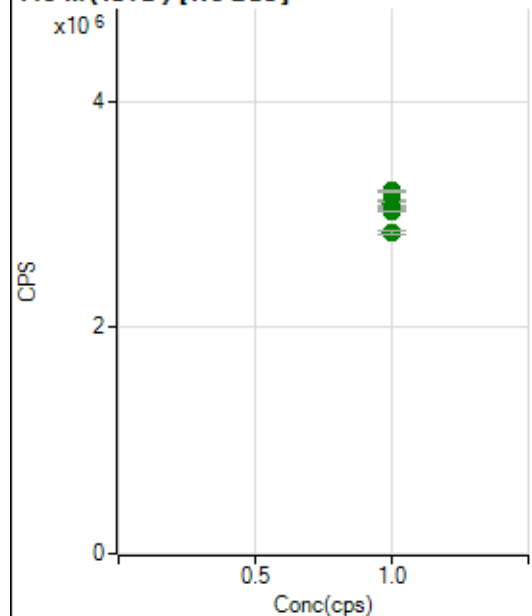
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1151344.86		P	2.9
2	☐	1.000		1160439.56		P	0.2
3	☐	1.000		1152602.02		P	0.9
4	☐	1.000		1117173.53		P	0.1
5	☐	1.000		1102486.21		P	0.3
6	☐	1.000		1096012.32		P	0.5
7	☐	1.000		1103024.59		P	0.8
8	☐	1.000		1074816.62		P	0.8

103 Rh(ISTD) [No Gas]

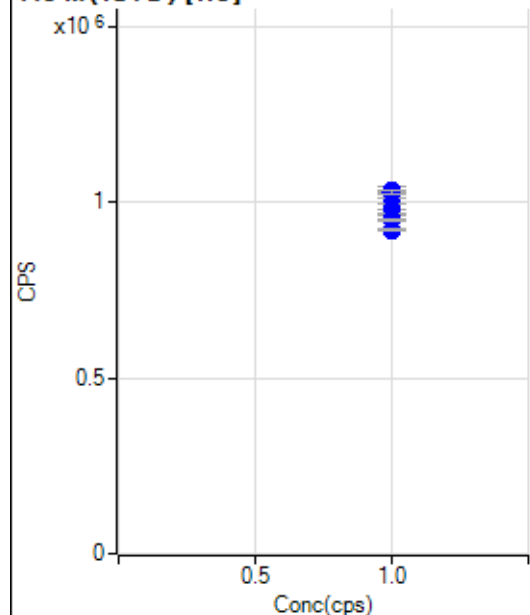
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2685578.02		A	2.3
2	☐	1.000		2721451.73		A	0.6
3	☐	1.000		2707971.32		A	0.9
4	☐	1.000		2612760.38		A	0.5
5	☐	1.000		2569962.30		A	0.5
6	☐	1.000		2517379.95		A	0.5
7	☐	1.000		2502852.69		A	1.0
8	☐	1.000		2263985.14		A	0.5

103 Rh (ISTD) [He]

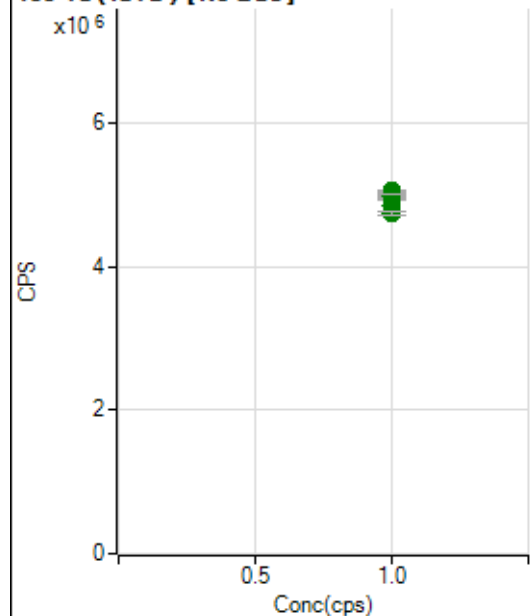
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1537141.75		M	6.0
2	☐	1.000		1574782.63		A	1.0
3	☐	1.000		1520612.27		M	2.8
4	☐	1.000		1425510.01		P	0.4
5	☐	1.000		1402487.59		P	0.7
6	☐	1.000		1373208.71		P	0.3
7	☐	1.000		1352166.47		P	0.7
8	☐	1.000		1237487.51		P	0.7

115 In (ISTD) [No Gas]

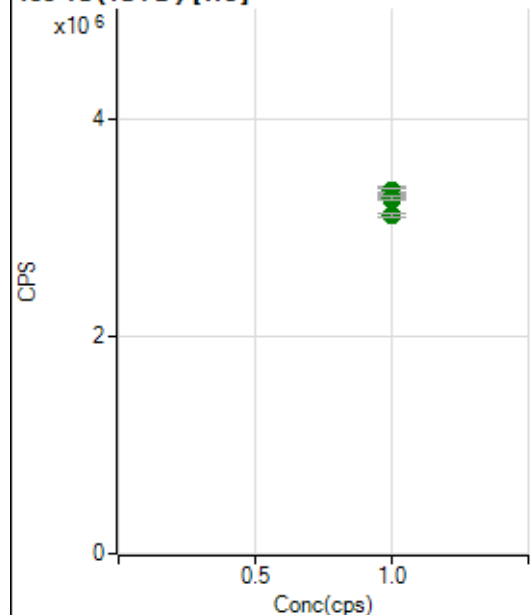
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3132687.52		A	3.5
2	☐	1.000		3191149.06		A	0.3
3	☐	1.000		3206009.56		A	0.6
4	☐	1.000		3114578.24		A	0.6
5	☐	1.000		3094161.63		A	1.5
6	☐	1.000		3051936.80		A	0.5
7	☐	1.000		3021635.75		A	0.2
8	☐	1.000		2839568.54		A	0.9

115 In (ISTD) [He]

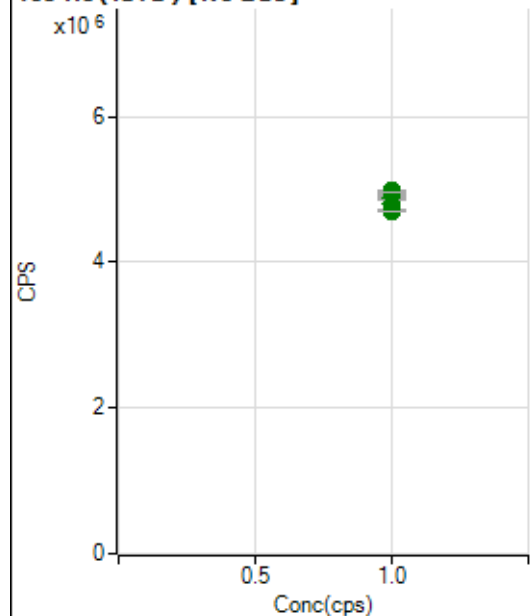
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1029257.37		P	3.2
2	☐	1.000		1033188.06		P	0.5
3	☐	1.000		1031401.26		P	0.9
4	☐	1.000		996582.58		P	0.4
5	☐	1.000		980339.65		P	0.4
6	☐	1.000		966928.05		P	0.3
7	☐	1.000		950798.13		P	0.7
8	☐	1.000		921407.43		P	0.8

159 Tb (ISTD) [No Gas]

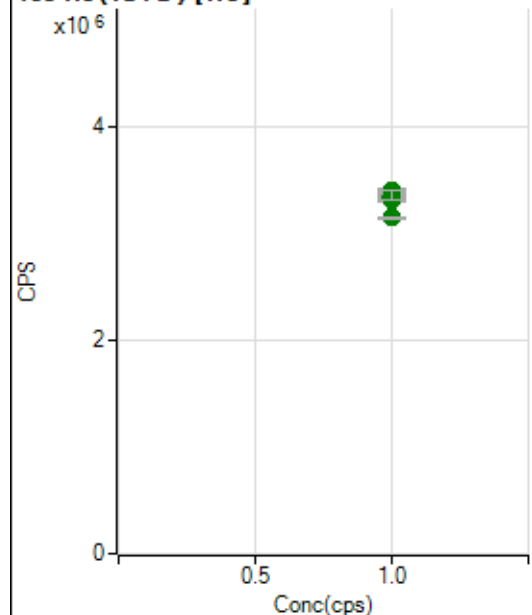
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4858811.56		A	3.7
2	☐	1.000		4946168.40		A	0.4
3	☐	1.000		5056596.00		A	0.6
4	☐	1.000		4955638.26		A	0.7
5	☐	1.000		4989474.37		A	0.4
6	☐	1.000		4991345.86		A	0.9
7	☐	1.000		5015292.81		A	0.3
8	☐	1.000		4745636.32		A	1.0

159 Tb (ISTD) [He]

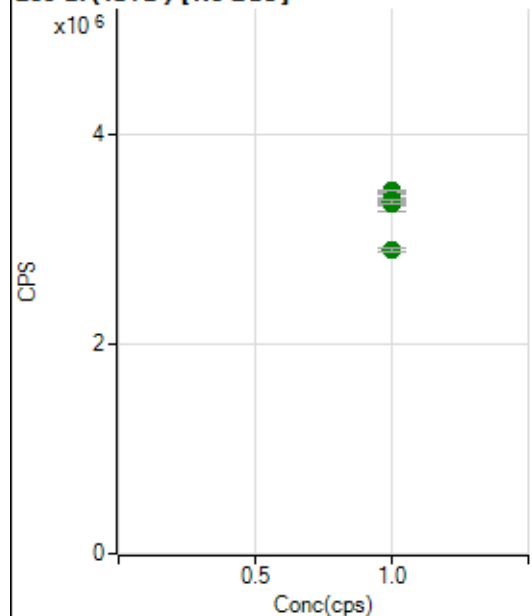
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3322740.33		A	3.0
2	☐	1.000		3314077.87		A	0.5
3	☐	1.000		3339264.08		A	1.2
4	☐	1.000		3273525.86		A	0.9
5	☐	1.000		3260100.30		A	0.5
6	☐	1.000		3268894.15		A	0.7
7	☐	1.000		3280629.74		A	1.2
8	☐	1.000		3114390.72		A	0.7

165 Ho (ISTD) [No Gas]

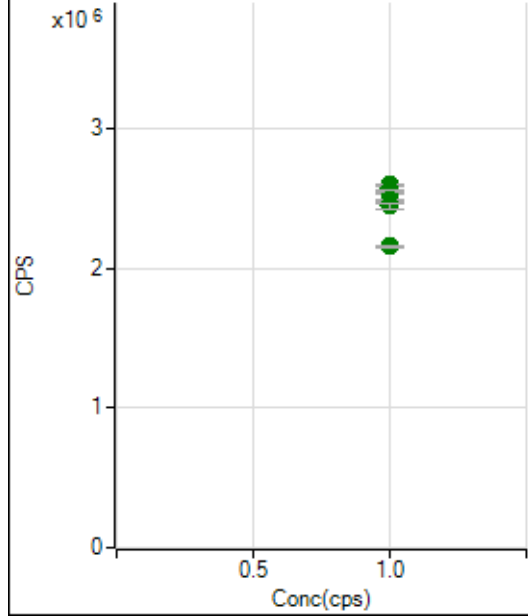
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4812174.72		A	3.6
2	☐	1.000		4899610.31		A	0.7
3	☐	1.000		4980361.21		A	0.2
4	☐	1.000		4920211.07		A	1.0
5	☐	1.000		4885084.27		A	0.8
6	☐	1.000		4929888.75		A	0.4
7	☐	1.000		4956837.39		A	0.3
8	☐	1.000		4695057.95		A	0.1

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3343662.83		A	2.4
2	☐	1.000		3396041.65		A	1.6
3	☐	1.000		3390373.59		A	0.4
4	☐	1.000		3315996.13		A	0.5
5	☐	1.000		3305892.70		A	1.1
6	☐	1.000		3322896.97		A	1.1
7	☐	1.000		3356282.59		A	2.3
8	☐	1.000		3148032.00		A	0.6

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3344252.45		A	4.0
2	☐	1.000		3443824.04		A	0.3
3	☐	1.000		3469644.74		A	0.6
4	☐	1.000		3377510.09		A	0.2
5	☐	1.000		3359764.29		A	1.2
6	☐	1.000		3344314.98		A	1.2
7	☐	1.000		3361033.87		A	0.9
8	☐	1.000		2911459.96		A	1.2

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2571097.60		A	2.9
2	☐	1.000		2595362.72		A	0.6
3	☐	1.000		2600948.55		A	0.5
4	☐	1.000		2559982.34		A	0.8
5	☐	1.000		2493709.17		A	0.7
6	☐	1.000		2492565.76		A	0.1
7	☐	1.000		2447796.39		A	1.2
8	☐	1.000		2158229.78		A	1.1

US EPA Tune Check Report

Operator Name Jaswal

Acq/Data Batch D:\Agilent\ICPMH\1\DATA\IP7072624-MS1.b

Acq. Date-Time 2024-07-26 14:27:16

Report Comment ---

Instrument Name G8403A JP14410463

[No Gas]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
9		5295	52949.91			0.336	5.000
24		47042	470424.98			0.367	5.000
25		6223	62230.96			0.265	5.000
26		7066	70664.68			0.600	5.000
59		39418	394181.77			0.410	5.000
113		5709	57094.99			0.322	5.000
115		72043	720433.35			0.344	5.000
206		21139	211388.76			0.331	5.000
207		19448	194484.28			0.508	5.000
208		45933	459325.61			0.404	5.000
220		0	0.90			72.436	

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

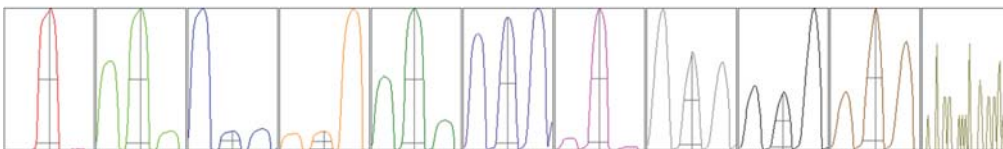
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	5307	5287	5269	5298	5314
24	47126	46798	46972	47057	47260
25	6229	6194	6232	6228	6232
26	7069	7017	7031	7102	7113
59	39542	39187	39308	39536	39517
113	5713	5683	5715	5704	5734
115	72308	72024	72157	71643	72085
206	21183	21049	21205	21178	21079
207	19583	19347	19414	19519	19380
208	46075	45688	45964	45804	46132

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	8886.57	9.05	8.90 - 9.10	
24	75775.05	24.00	23.90 - 24.10	
25	9919.16	25.00	24.90 - 25.10	
26	11159.74	26.00	25.90 - 26.10	
59	65946.88	58.95	58.90 - 59.10	
113	11003.14	113.00	112.90 - 113.10	
115	138971.16	115.00	114.90 - 115.10	
206	44044.48	206.05	205.90 - 206.10	
207	39212.35	207.00	206.90 - 207.10	
208	95566.97	208.05	207.90 - 208.10	
220	0.00	220.00	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.61	0.769	0.900	
24	0.64	0.780	0.900	
25	0.66	0.746	0.900	
26	0.65	0.779	0.900	
59	0.62	0.770	0.900	
113	0.53	0.738	0.900	
115	0.53	0.693	0.900	
206	0.50	0.744	0.900	
207	0.50	0.725	0.900	
208	0.49	0.724	0.900	
220	0.13	0.125		

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode ---

Nebulizer Gas 0.82 L/min

Dilution Gas 0.40 L/min

US EPA Tune Check Report

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

Lens Parameters

Extract 1	0.0 V	Omega Lens	8.6 V	Deflect	14.6 V
Extract 2	-115.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-70 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	---	OctP RF	160 V		

QP Parameters

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

Hardware Settings

Torch

Torch H	-0.3 mm	Torch V	0.4 mm
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EM

Discriminator	4.6 mV	Analog HV	2312 V	Pulse HV	1396 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		12152	121519.86			0.223	
89		17220	172195.32			0.473	
205		21789	217893.99			0.907	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	12177	12156	12117	12132	12178
89	17340	17240	17140	17147	17231
205	22035	21841	21590	21585	21897

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

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

Lens Parameters

Extract 1	0.0 V	Omega Lens	8.9 V	Deflect	2.2 V
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US EPA Tune Check Report

Extract 2	-115.0 V	Cell Entrance	-40 V	Plate Bias	-60 V
Omega Bias	-65 V	Cell Exit	-60 V		
Cell Parameters					
Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	3.9 mL/min	OctP Bias	-18.0 V		
H2 Flow	---	OctP RF	190 V		
QP Parameters					
Mass Gain	134	Axis Gain	0.9973	QP Bias	-13.0 V
Mass Offset	130	Axis Offset	0.15		
Hardware Settings					
Torch					
Torch H	-0.3 mm	Torch V	0.4 mm		
EM					
Discriminator	4.6 mV	Analog HV	2312 V	Pulse HV	1396 V