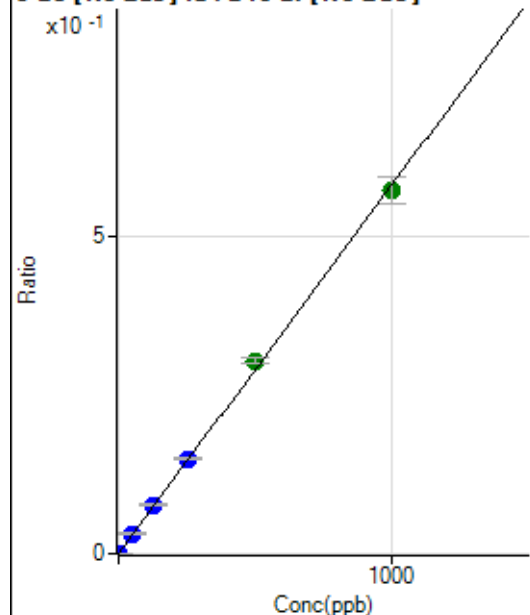


Batch Folder: D:\Agilent\ICPMH\1\DATA\P7111622-MS.b\
Analysis File: P7111622-MS.batch.bin
DA Date-Time: 2022-11-16 13:49:51
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.d	S00	2022-11-16 12:38:08
2	006CALS.d	S02	2022-11-16 12:43:51
3	007CALS.d	S03	2022-11-16 12:46:42
4	008CALS.d	S04	2022-11-16 12:49:27
5	009CALS.d	S05	2022-11-16 12:52:11
6	010CALS.d	S06	2022-11-16 12:54:58
7	011CALS.d	S07	2022-11-16 12:57:42
8	012CALS.d	S08	2022-11-16 13:00:28

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	123.33	0.0000	P	28.5
2	☐	1.000	1.069	2810.28	0.0007	P	2.9
3	☐	50.000	54.512	134502.54	0.0317	P	2.7
4	☐	125.000	132.646	338050.96	0.0772	P	2.4
5	☐	250.000	258.051	652458.40	0.1501	P	1.0
6	☐	500.000	523.251	1249381.99	0.3043	A	3.1
7	☐	1000.000	985.180	2417746.89	0.5728	A	7.5
8	☐			735.58	0.0002	P	15.7

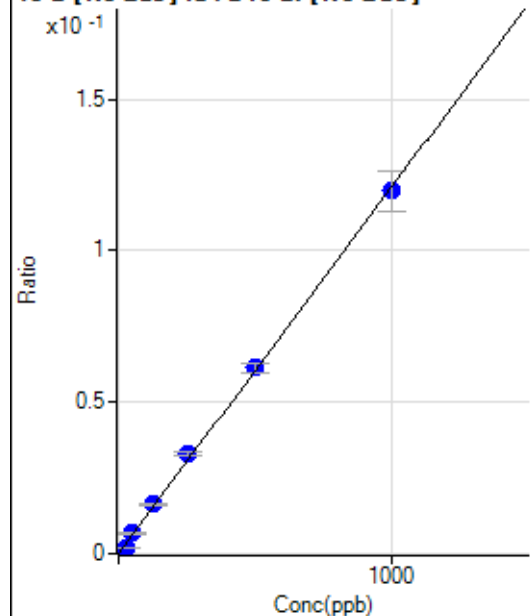
$$y = 5.8142\text{E-}004 * x + 2.8748\text{E-}005$$

$$R = 0.9995$$

$$DL = 0.04225$$

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	213.90	0.0000	P	28.7
2	☐	25.000	14.071	7571.46	0.0018	P	1.5
3	☐	50.000	55.256	28549.24	0.0067	P	4.5
4	☐	125.000	134.076	71256.07	0.0163	P	3.3
5	☐	250.000	270.441	142412.97	0.0328	P	4.0
6	☐	500.000	507.176	252015.49	0.0614	P	4.7
7	☐	1000.000	990.178	504973.67	0.1198	P	11.3
8	☐			19251.41	0.0052	P	11.4

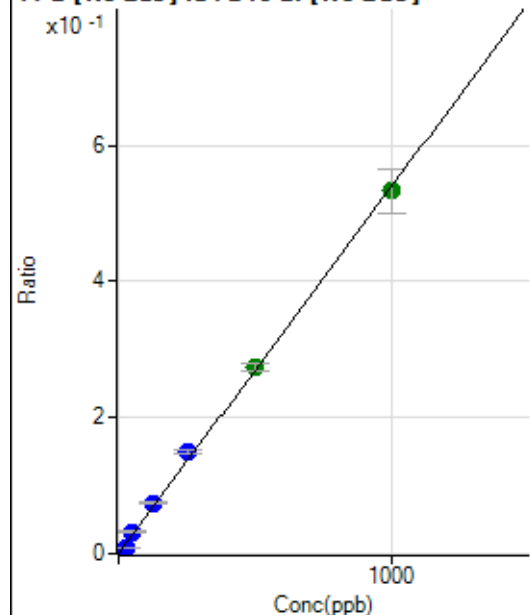
$$y = 1.2092\text{E-}004 * x + 4.9868\text{E-}005$$

$$R = 0.9996$$

$$DL = 0.3546$$

Weight: <None>

Min Conc: 0

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

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1077.84	0.0003	P	7.8
2	☐	25.000	14.113	33999.05	0.0079	P	5.5
3	☐	50.000	58.959	135929.81	0.0321	P	4.3
4	☐	125.000	138.017	327313.71	0.0747	P	5.1
5	☐	250.000	277.303	651569.55	0.1498	P	4.5
6	☐	500.000	506.224	1122212.07	0.2733	A	4.3
7	☐	1000.000	988.259	2247680.21	0.5333	A	12.5
8	☐			87269.46	0.0234	P	9.0

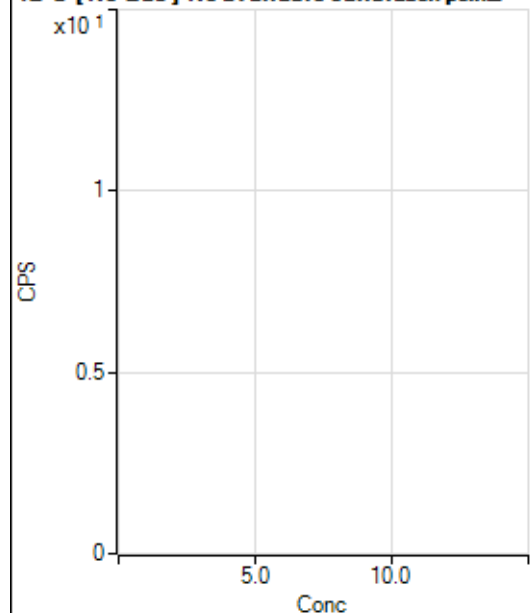
$$y = 5.3941\text{E-}004 * x + 2.5078\text{E-}004$$

$$R = 0.9993$$

$$DL = 0.1094$$

Weight: <None>

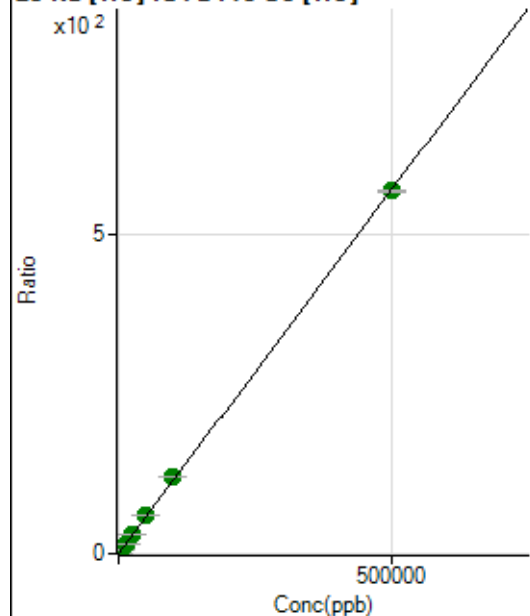
Min Conc: 0

12 C [No Gas] No available calibration points

	R _{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	22093.84	0.0299	P	2.3
2	☐	500.000	484.570	430745.75	0.5817	P	0.5
3	☐	5000.000	5238.682	4317488.96	5.9949	A	1.2
4	☐	12500.000	13187.794	10423788.08	15.0461	A	0.7
5	☐	25000.000	25974.407	20151372.21	29.6054	A	0.7
6	☐	50000.000	53070.082	40522360.17	60.4575	A	2.3
7	☐	100000.00	104731.15	82685527.78	119.2807	A	0.5
8	☐	500000.00	498678.47	411914827.7	567.8437	A	0.6

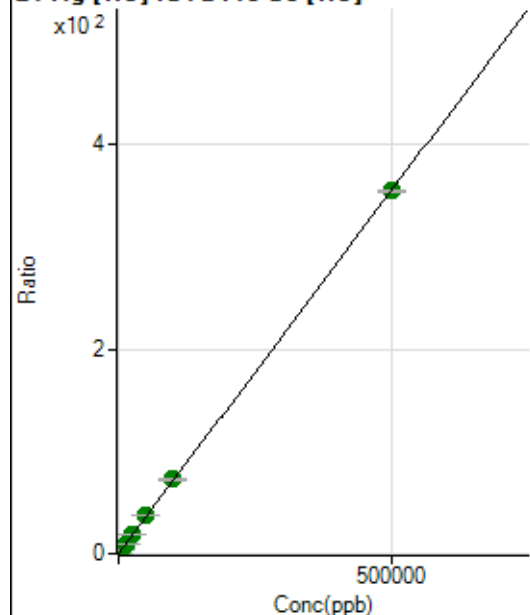
$$y = 0.0011 * x + 0.0299$$

$$R = 0.9999$$

$$DL = 1.794$$

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	479.64	0.0007	P	13.6
2	☐	500.000	473.239	249315.85	0.3367	P	0.7
3	☐	5000.000	5248.697	2684652.08	3.7276	A	0.4
4	☐	12500.000	12980.572	6386333.65	9.2178	A	0.3
5	☐	25000.000	25718.262	12431043.10	18.2626	A	0.4
6	☐	50000.000	52271.666	24881035.97	37.1175	A	1.2
7	☐	100000.00	102037.30	50226267.79	72.4549	A	0.6
8	☐	500000.00	499314.98	257183733.5	354.5523	A	0.7

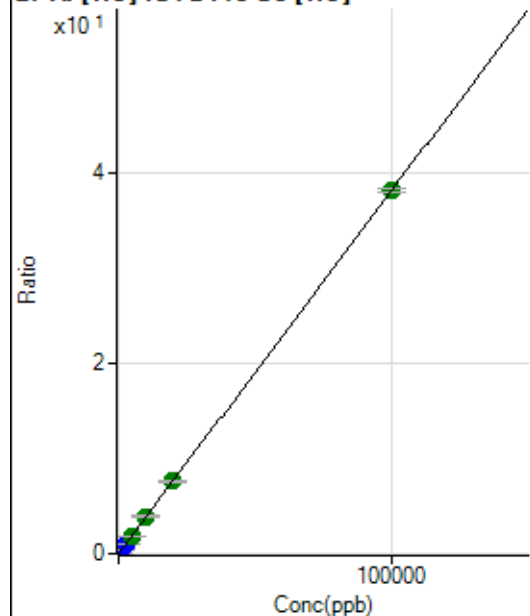
$$y = 7.1008\text{E-}004 * x + 6.5021\text{E-}004$$

$$R = 1.0000$$

$$DL = 0.3743$$

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	274.08	0.0004	P	18.7
2	☐	20.000	20.247	6001.26	0.0081	P	4.6
3	☐	1000.000	1074.732	295895.03	0.4109	P	1.0
4	☐	2500.000	2580.519	683101.54	0.9860	P	0.5
5	☐	5000.000	4995.660	1298988.02	1.9084	A	0.9
6	☐	10000.000	10314.820	2640809.95	3.9400	A	2.4
7	☐	20000.000	19907.593	5271009.72	7.6039	A	0.7
8	☐	100000.00	99984.456	27700860.11	38.1885	A	1.1

$$y = 3.8194\text{E-}004 * x + 3.7168\text{E-}004$$

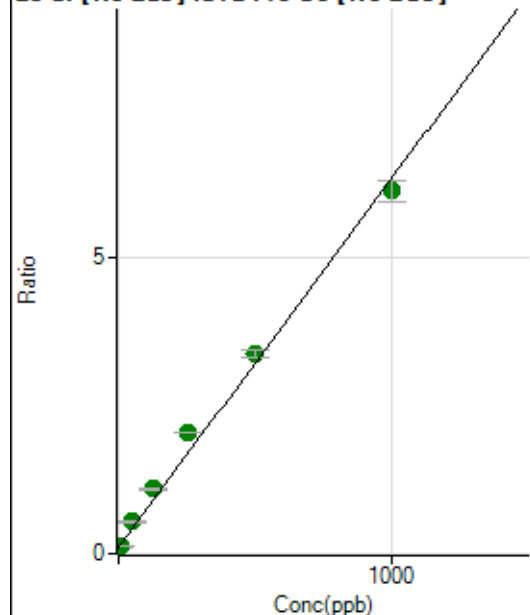
$$R = 1.0000$$

$$DL = 0.5462$$

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	963510.43	0.1062	M	13.6
2	☐	10.000	4.209	1211287.97	0.1324	A	2.2
3	☐	50.000	69.282	4763603.49	0.5377	A	1.4
4	☐	125.000	157.778	9646733.81	1.0889	A	2.0
5	☐	250.000	311.843	17795347.62	2.0484	A	1.3
6	☐	500.000	525.247	28297317.30	3.3776	A	3.2
7	☐	1000.000	966.912	56119326.95	6.1284	A	5.7
8	☐			1607029.55	0.1868	A	1.9

$$y = 0.0062 * x + 0.1062$$

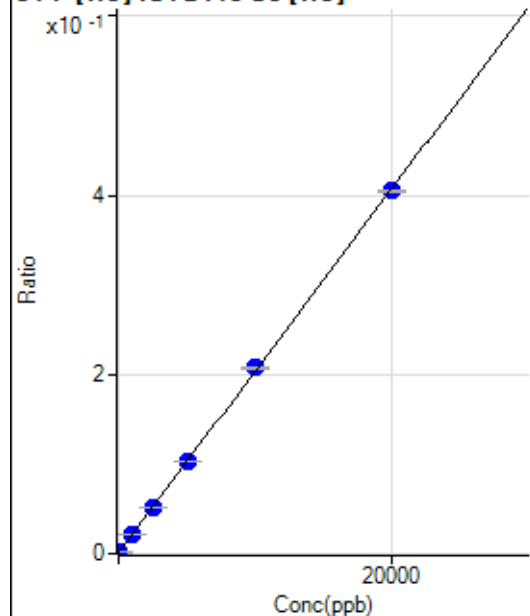
$$R = 0.9969$$

$$DL = 6.93$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	-10.563	555.58	0.0008	P	6.4
2	☐	0.000	10.563	875.05	0.0012	P	13.3
3	☐	1000.000	988.147	15138.36	0.0210	P	2.8
4	☐	2500.000	2526.435	36190.65	0.0522	P	0.9
5	☐	5000.000	5024.770	70066.56	0.1029	P	1.3
6	☐	10000.000	10176.421	139086.48	0.2075	P	1.4
7	☐	20000.000	19902.886	280663.28	0.4049	P	0.9
8	☐			675.04	0.0009	P	8.1

$$y = 2.0294E-005 * x + 9.6758E-004$$

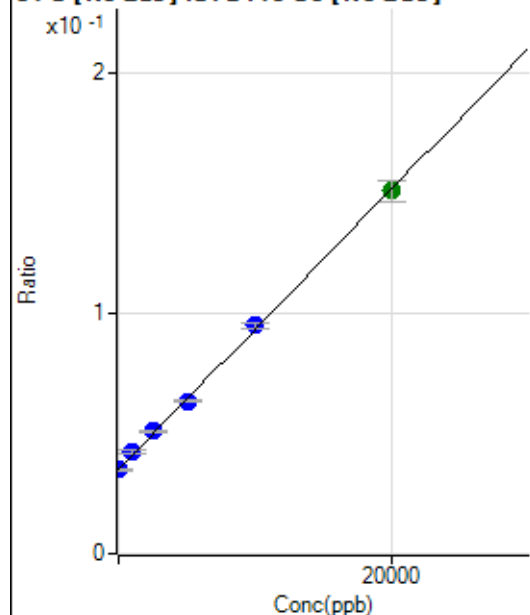
$$R = 0.9999$$

$$DL = 15.2$$

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	2.328	317684.53	0.0350	P	0.6
2	☐	0.000	-2.328	320130.76	0.0350	P	1.7
3	☐	1000.000	1266.802	375456.86	0.0424	P	2.5
4	☐	2500.000	2719.011	450565.46	0.0509	P	0.7
5	☐	5000.000	4872.432	550850.01	0.0634	P	1.2
6	☐	10000.000	10297.323	796296.37	0.0950	P	2.5
7	☐	20000.000	19842.514	1380020.00	0.1507	A	5.8
8	☐			277031.08	0.0322	P	1.3

$$y = 5.8312\text{E-}006 * x + 0.0350$$

$$R = 0.9997$$

$$DL = 212.7$$

Weight: <None>

Min Conc: 0

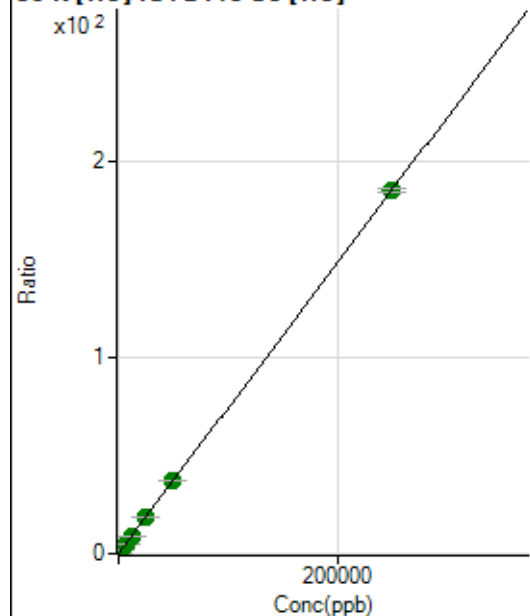
35 Cl [No Gas] No available calibration points



	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	76933.32	0.1043	P	0.5
2	☐	500.000	489.846	344928.44	0.4658	P	0.2
3	☐	2500.000	2517.295	1413103.55	1.9621	A	0.8
4	☐	6250.000	6304.271	3295653.96	4.7570	A	0.4
5	☐	12500.000	12344.925	6272646.67	9.2151	A	0.9
6	☐	25000.000	25396.977	12634162.70	18.8479	A	1.3
7	☐	50000.000	50332.270	25822117.42	37.2508	A	0.3
8	☐	250000.00	249900.09	133857491.8	184.5368	A	1.1

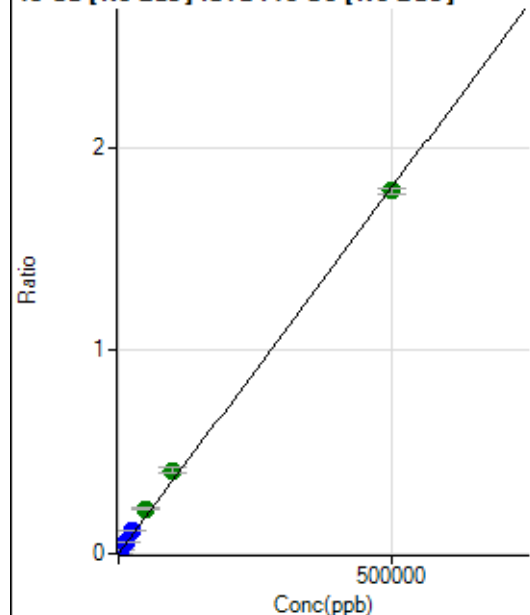
$$y = 7.3803E-004 * x + 0.1043$$

$$R = 1.0000$$

$$DL = 2.128$$

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	338.90	0.0000	P	3.4
2	☐	500.000	498.297	16779.12	0.0018	P	3.9
3	☐	5000.000	6402.362	204707.24	0.0231	P	1.2
4	☐	12500.000	15679.659	500834.84	0.0565	P	3.7
5	☐	25000.000	30748.168	962801.34	0.1108	P	2.2
6	☐	50000.000	60875.303	1837833.37	0.2194	A	3.5
7	☐	100000.00	113774.08	3754280.47	0.4100	A	5.7
8	☐	500000.00	495776.73	15367705.20	1.7864	A	1.3

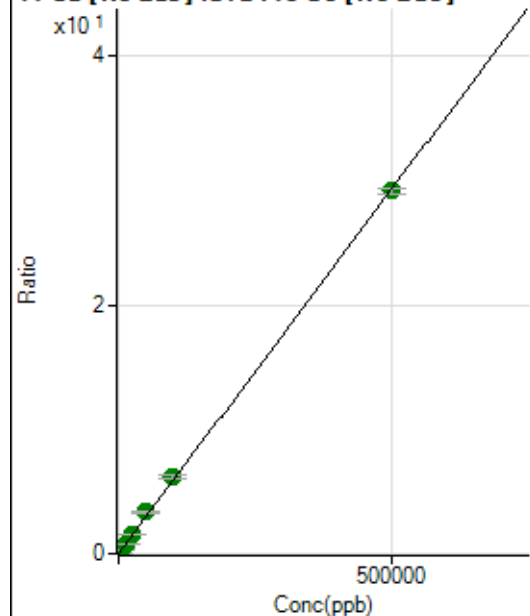
$$y = 3.6032E-006 * x + 3.7347E-005$$

$$R = 0.9995$$

$$DL = 1.059$$

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	17353.34	0.0019	P	3.4
2	☐	500.000	502.606	286701.22	0.0313	P	0.8
3	☐	5000.000	5681.437	2962678.99	0.3344	A	1.4
4	☐	12500.000	13997.836	7274657.45	0.8211	A	2.8
5	☐	25000.000	27142.051	13816092.67	1.5904	A	1.5
6	☐	50000.000	56747.522	27836582.91	3.3230	A	4.0
7	☐	100000.00	106105.64	56882815.85	6.2117	A	5.9
8	☐	500000.00	497952.75	250685850.0	29.1442	A	1.4

$$y = 5.8524E-005 * x + 0.0019$$

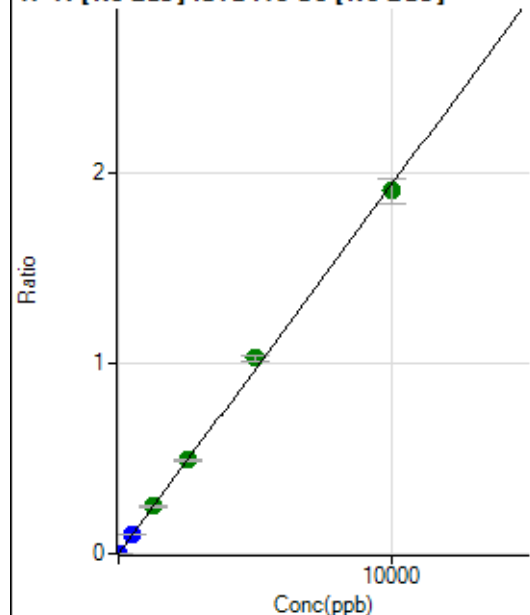
$$R = 0.9999$$

$$DL = 3.375$$

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	100.00	0.0000	P	21.7
2	☐	5.000	4.427	7938.37	0.0009	P	3.0
3	☐	500.000	533.897	915583.60	0.1033	P	1.0
4	☐	1250.000	1290.001	2211580.11	0.2496	A	2.6
5	☐	2500.000	2529.898	4253008.65	0.4896	A	2.1
6	☐	5000.000	5300.421	8592937.09	1.0257	A	2.9
7	☐	10000.000	9835.620	17425904.56	1.9033	A	7.0
8	☐			4303.51	0.0005	P	12.5

$$y = 1.9350E-004 * x + 1.1015E-005$$

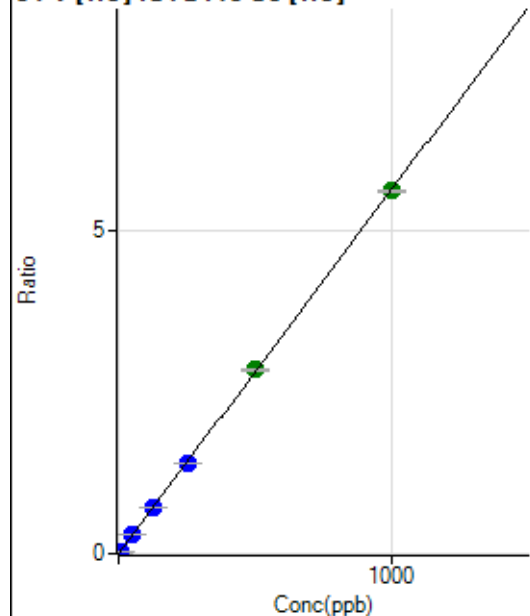
$$R = 0.9993$$

$$DL = 0.03711$$

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	8.89	0.0000	P	78.3
2	☐	5.000	4.653	19449.29	0.0263	P	2.3
3	☐	50.000	50.434	204960.07	0.2846	P	0.5
4	☐	125.000	126.707	495320.21	0.7150	P	0.6
5	☐	250.000	249.768	959294.26	1.4093	P	0.1
6	☐	500.000	506.132	1914421.12	2.8559	A	1.1
7	☐	1000.000	996.758	3898574.77	5.6242	A	0.7
8	☐			1170.06	0.0016	P	0.6

$$y = 0.0056 * x + 1.2058E-005$$

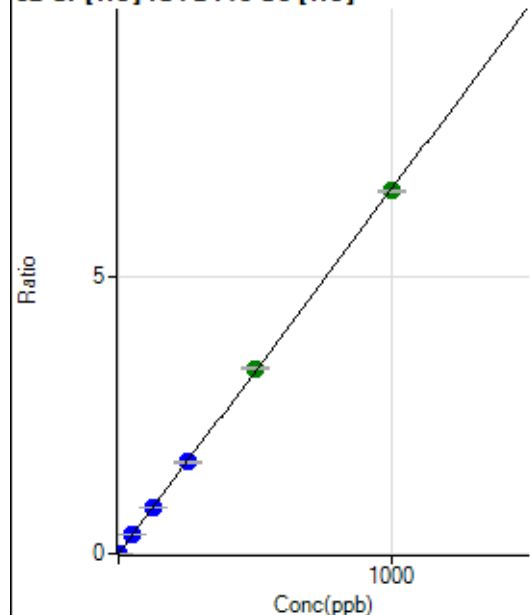
$$R = 1.0000$$

$$DL = 0.00502$$

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	1376.74	0.0019	P	6.3
2	☐	2.000	1.811	10206.87	0.0138	P	3.8
3	☐	50.000	51.262	244283.26	0.3392	P	0.3
4	☐	125.000	127.684	583374.25	0.8421	P	0.6
5	☐	250.000	250.567	1123549.66	1.6507	P	0.4
6	☐	500.000	507.958	2241913.99	3.3443	A	0.7
7	☐	1000.000	995.481	4542091.53	6.5523	A	0.5
8	☐			39217.48	0.0541	P	1.5

$$y = 0.0066 * x + 0.0019$$

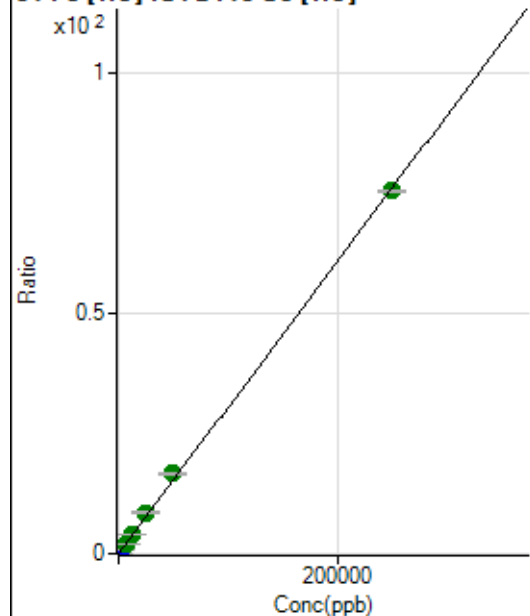
$$R = 1.0000$$

$$DL = 0.05356$$

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	1988.85	0.0027	P	2.9
2	☐	50.000	53.803	14081.05	0.0190	P	2.7
3	☐	2500.000	2908.716	637388.72	0.8850	P	0.5
4	☐	6250.000	6944.824	1461230.58	2.1093	A	1.8
5	☐	12500.000	13674.603	2825222.02	4.1507	A	0.7
6	☐	25000.000	28104.666	5716092.98	8.5278	A	1.9
7	☐	50000.000	54735.418	11510875.16	16.6059	A	0.3
8	☐	250000.00	248662.26	54715991.56	75.4308	A	0.5

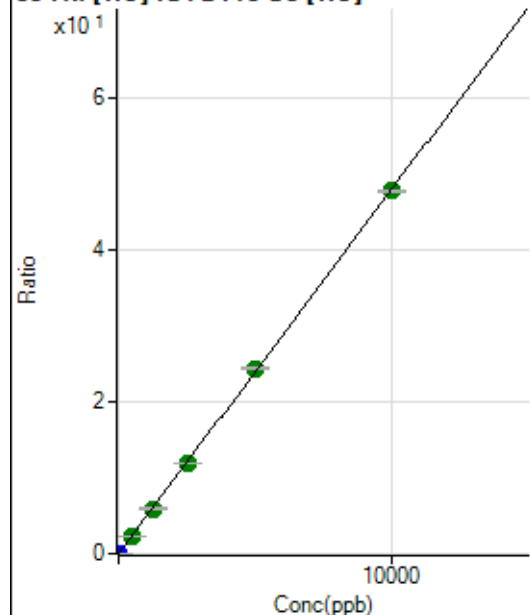
$$y = 3.0334E-004 * x + 0.0027$$

$$R = 0.9998$$

$$DL = 0.7716$$

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	242.23	0.0003	P	13.3
2	☐	1.000	0.956	3637.14	0.0049	P	2.8
3	☐	500.000	491.222	1697127.74	2.3564	A	0.4
4	☐	1250.000	1240.171	4121323.76	5.9487	A	0.2
5	☐	2500.000	2460.758	8034203.49	11.8032	A	0.3
6	☐	5000.000	5094.905	16380309.62	24.4377	A	1.8
7	☐	10000.000	9964.025	33129362.84	47.7921	A	0.5
8	☐			45706.92	0.0630	P	0.5

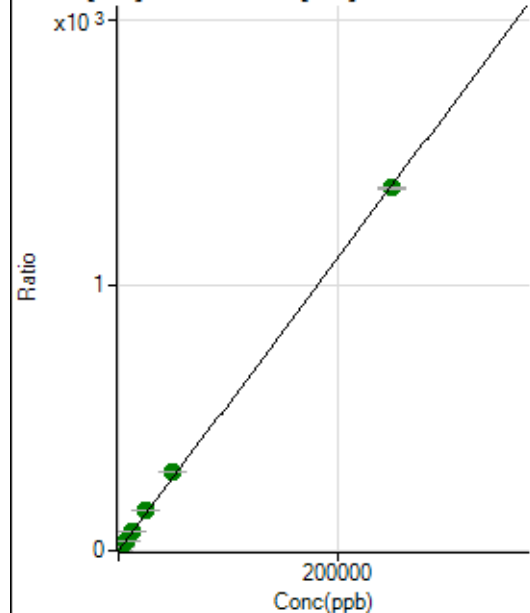
$$y = 0.0048 * x + 3.2837E-004$$

$$R = 0.9999$$

$$DL = 0.02739$$

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	12831.56	0.0174	P	1.4
2	☐	50.000	51.922	224144.20	0.3027	P	0.4
3	☐	2500.000	2760.752	10937768.30	15.1869	A	0.6
4	☐	6250.000	6819.600	25971800.35	37.4892	A	1.1
5	☐	12500.000	13571.994	50772041.87	74.5917	A	0.6
6	☐	25000.000	27862.391	102627604.1	153.1134	A	2.1
7	☐	50000.000	54493.065	207572091.6	299.4414	A	0.3
8	☐	250000.00	248744.70	991446896.2	1,366.799	A	0.5

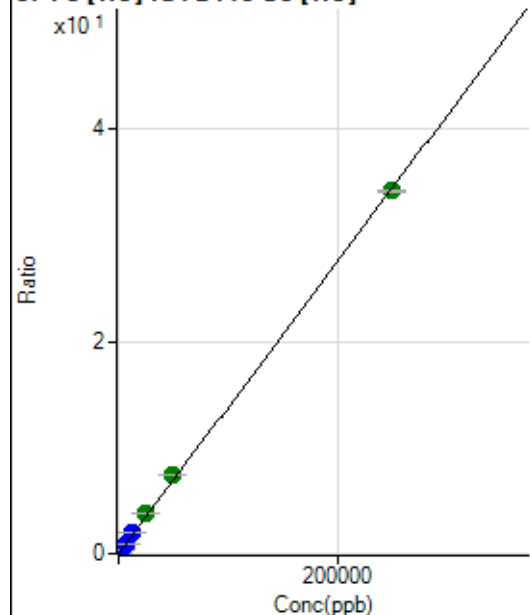
$$y = 0.0055 * x + 0.0174$$

$$R = 0.9998$$

$$DL = 0.1298$$

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	916.71	0.0012	P	10.2
2	☐	50.000	54.162	6431.12	0.0087	P	4.3
3	☐	2500.000	2837.226	281674.27	0.3911	P	0.4
4	☐	6250.000	7124.300	679063.43	0.9802	P	0.5
5	☐	12500.000	14004.343	1310679.92	1.9255	P	0.2
6	☐	25000.000	27606.480	2543662.85	3.7946	A	1.0
7	☐	50000.000	54025.800	5146648.20	7.4248	A	0.6
8	☐	250000.00	248833.74	24802512.82	34.1929	A	0.6

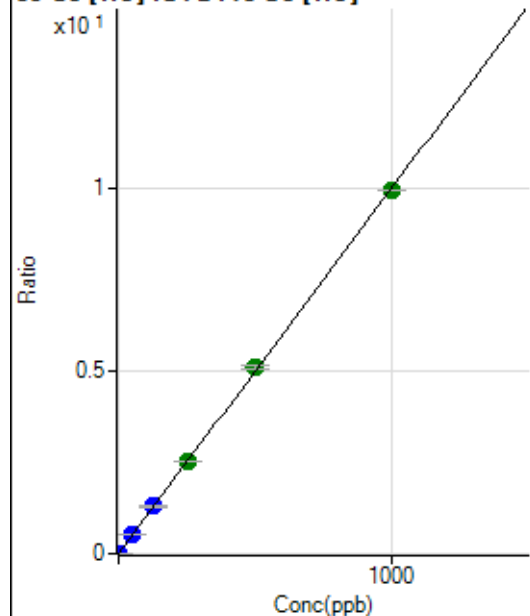
$$y = 1.3741E-004 * x + 0.0012$$

$$R = 0.9998$$

$$DL = 2.775$$

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	86.67	0.0001	P	25.2
2	☐	1.000	0.965	7245.14	0.0098	P	2.9
3	☐	50.000	51.986	375045.48	0.5208	P	0.6
4	☐	125.000	129.254	896888.06	1.2946	P	0.7
5	☐	250.000	251.931	1717418.10	2.5232	A	1.2
6	☐	500.000	511.233	3431668.39	5.1201	A	2.8
7	☐	1000.000	993.269	6895590.45	9.9476	A	0.1
8	☐			7448.57	0.0103	P	1.4

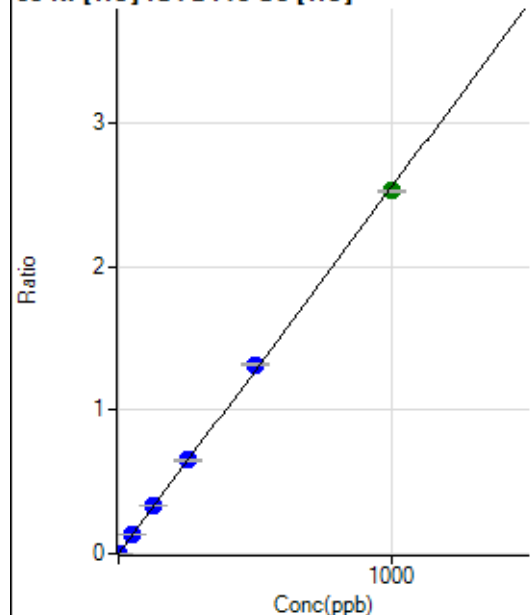
$$y = 0.0100 * x + 1.1747E-004$$

$$R = 0.9999$$

$$DL = 0.008883$$

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	148.89	0.0002	P	6.0
2	☐	1.000	0.951	1949.04	0.0026	P	1.9
3	☐	50.000	52.519	96815.56	0.1344	P	0.8
4	☐	125.000	129.932	230200.55	0.3323	P	0.9
5	☐	250.000	254.821	443432.52	0.6515	P	0.6
6	☐	500.000	516.034	884186.40	1.3191	P	1.5
7	☐	1000.000	990.035	1754054.77	2.5305	A	0.8
8	☐			10085.69	0.0139	P	1.9

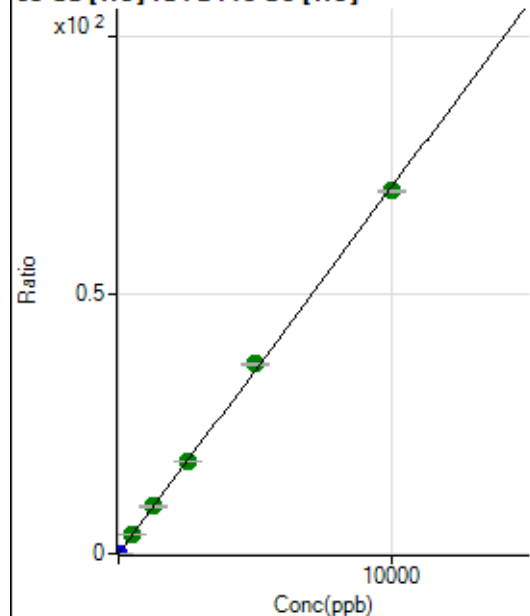
$$y = 0.0026 * x + 2.0179E-004$$

$$R = 0.9998$$

$$DL = 0.01425$$

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	1061.16	0.0014	P	8.7
2	☐	2.000	1.945	11252.10	0.0152	P	0.8
3	☐	500.000	524.349	2672208.50	3.7103	A	0.5
4	☐	1250.000	1285.425	6299920.18	9.0935	A	0.7
5	☐	2500.000	2537.970	12220304.68	17.9531	A	0.5
6	☐	5000.000	5174.840	24537580.47	36.6043	A	1.0
7	☐	10000.000	9897.442	48530278.17	70.0084	A	0.7
8	☐			19185.71	0.0265	P	2.6

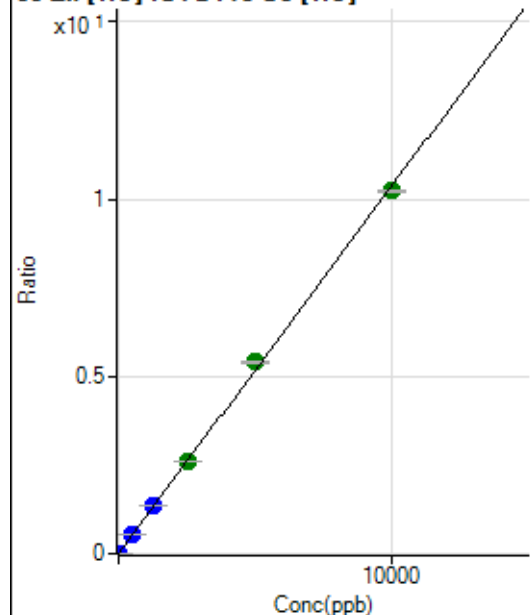
$$y = 0.0071 * x + 0.0014$$

$$R = 0.9998$$

$$DL = 0.05306$$

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	372.23	0.0005	P	21.1
2	☐	2.000	2.142	2015.71	0.0027	P	3.8
3	☐	500.000	529.809	395462.50	0.5491	P	0.2
4	☐	1250.000	1328.319	953221.09	1.3759	P	0.6
5	☐	2500.000	2523.726	1779022.87	2.6137	A	1.1
6	☐	5000.000	5209.353	3616383.97	5.3945	A	0.6
7	☐	10000.000	9878.112	7090571.14	10.2288	A	0.5
8	☐			16514.77	0.0228	P	2.1

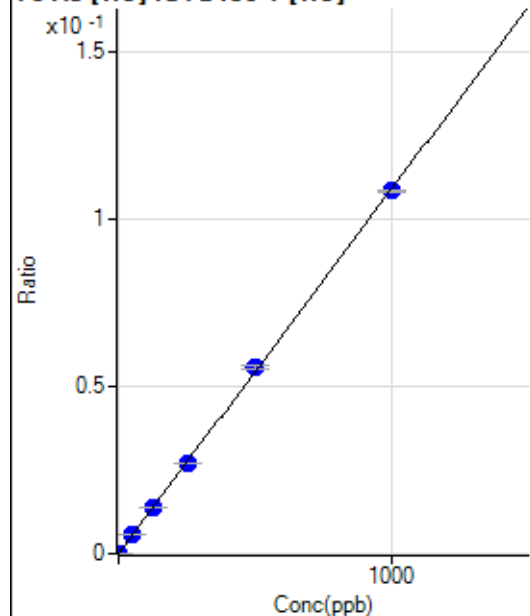
$$y = 0.0010 * x + 5.0428E-004$$

$$R = 0.9997$$

$$DL = 0.3077$$

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	6.79	0.0000	P	31.2
2	☐	1.000	1.019	546.31	0.0001	P	4.8
3	☐	50.000	51.236	26364.69	0.0056	P	0.4
4	☐	125.000	126.981	63238.35	0.0138	P	0.1
5	☐	250.000	248.727	123004.93	0.0271	P	1.0
6	☐	500.000	509.371	250891.54	0.0554	P	2.2
7	☐	1000.000	995.323	505781.33	0.1083	P	0.3
8	☐			325.31	0.0001	P	3.6

$$y = 1.0885E-004 * x + 1.3979E-006$$

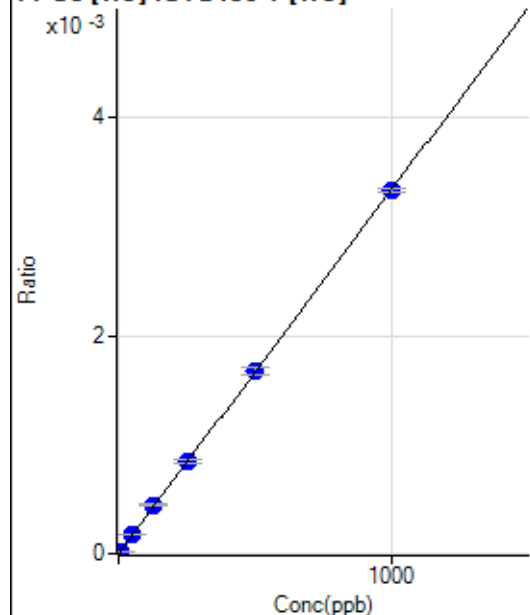
$$R = 0.9999$$

$$DL = 0.01203$$

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	4.438	72.22	0.0000	P	29.9
3	☐	50.000	51.791	816.70	0.0002	P	5.5
4	☐	125.000	134.461	2052.39	0.0004	P	2.6
5	☐	250.000	252.885	3832.75	0.0008	P	4.8
6	☐	500.000	502.386	7584.24	0.0017	P	3.8
7	☐	1000.000	996.816	15527.12	0.0033	P	1.2
8	☐			7.78	0.0000	P	23.9

$$y = 3.3370\text{E-}006 * x + 0.0000\text{E+}000$$

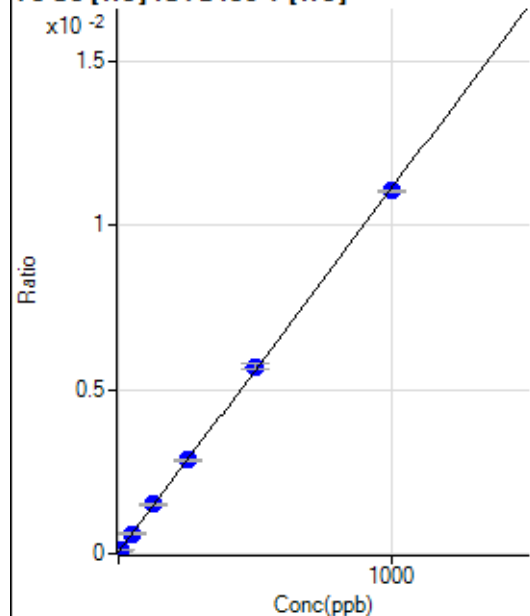
$$R = 1.0000$$

$$DL = 0$$

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	235.19	0.0000	P	11.1
2	☐	5.000	5.774	547.54	0.0001	P	3.2
3	☐	50.000	51.087	2907.70	0.0006	P	3.3
4	☐	125.000	131.009	6871.99	0.0015	P	3.4
5	☐	250.000	253.284	12985.96	0.0029	P	1.6
6	☐	500.000	510.832	25863.22	0.0057	P	2.4
7	☐	1000.000	992.954	51654.20	0.0111	P	0.6
8	☐			304.33	0.0001	P	13.3

$$y = 1.1095\text{E-}005 * x + 4.8443\text{E-}005$$

$$R = 0.9999$$

$$DL = 1.453$$

Weight: <None>

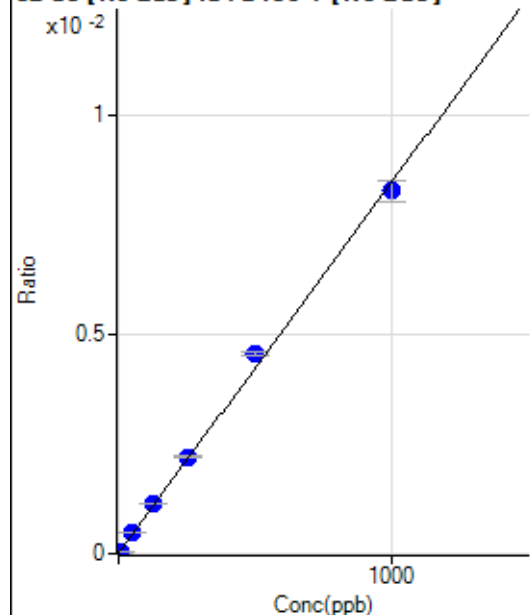
Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			17630.43		P	2.5
2	☐			17232.66		P	2.4
3	☐			17357.91		P	1.9
4	☐			16854.50		P	1.4
5	☐			16309.44		P	2.5
6	☐			16723.78		P	2.3
7	☐			17619.26		P	1.6
8	☐			19774.89		P	4.8

81 Br [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			53.39		P	92.5
2	☐			30.03		P	33.3
3	☐			20.02		P	100.
4	☐			70.07		P	65.5
5	☐			40.04		P	25.0
6	☐			33.37		P	62.4
7	☐			43.38		P	66.6
8	☐			70.07		P	0.0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	273.62	0.0000	P	20.5
2	☐	5.000	4.568	1056.69	0.0001	P	1.3
3	☐	50.000	54.752	9363.58	0.0005	P	1.8
4	☐	125.000	133.277	22735.75	0.0011	P	1.6
5	☐	250.000	260.176	43379.08	0.0022	P	0.6
6	☐	500.000	537.450	86492.44	0.0046	P	2.6
7	☐	1000.000	977.461	170196.64	0.0083	P	5.7
8	☐			422.76	0.0000	P	8.2

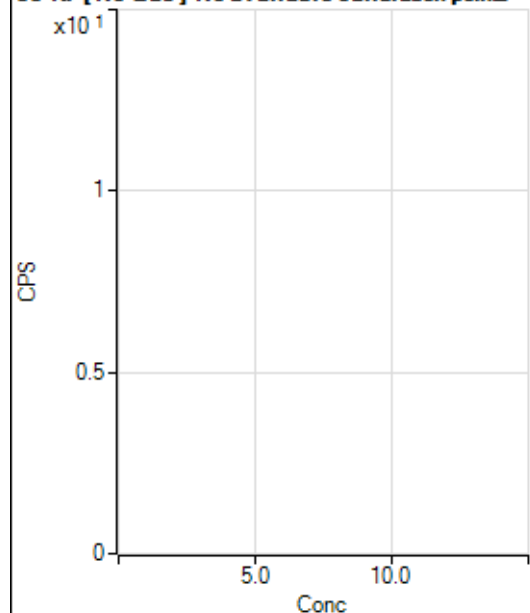
$$y = 8.4423\text{E-}006 * x + 1.3448\text{E-}005$$

$$R = 0.9989$$

$$DL = 0.9809$$

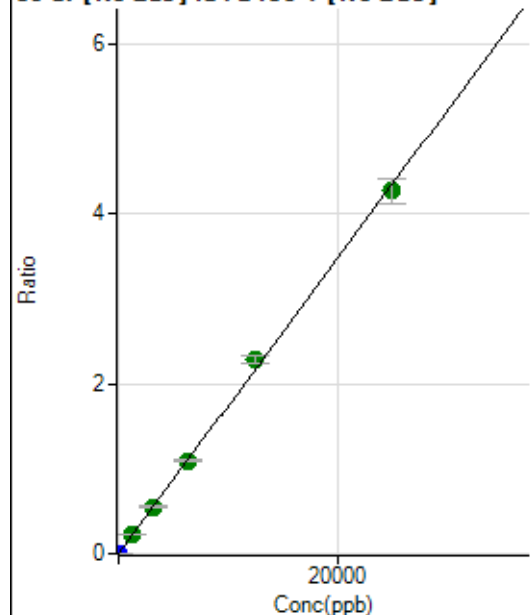
Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			250.01		P	2.3
2	☐			287.79		P	9.7
3	☐			252.23		P	6.5
4	☐			274.45		P	12.0
5	☐			247.78		P	6.2
6	☐			297.79		P	19.1
7	☐			313.34		P	7.4
8	☐			324.45		P	9.8

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	486.13	0.0000	P	21.2
2	☐	1.000	0.984	3953.42	0.0002	P	3.0
3	☐	1250.000	1318.050	4503155.22	0.2288	A	0.8
4	☐	3125.000	3190.347	11058242.00	0.5538	A	2.5
5	☐	6250.000	6308.302	21493098.05	1.0950	A	0.7
6	☐	12500.000	13208.953	43573583.61	2.2928	A	3.6
7	☐	25000.000	24619.377	87985860.30	4.2734	A	6.6
8	☐			29327.27	0.0015	P	10.9

$$y = 1.7358\text{E-}004 * x + 2.3894\text{E-}005$$

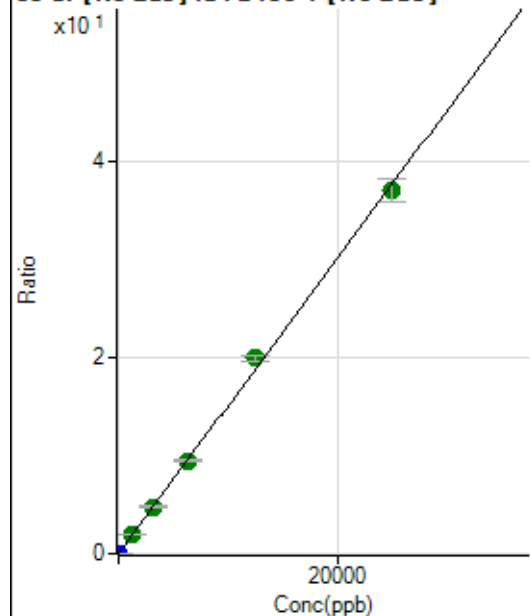
$$R = 0.9994$$

$$DL = 0.08756$$

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	361.13	0.0000	P	16.5
2	☐	1.000	0.952	29396.55	0.0014	P	1.0
3	☐	1250.000	1306.802	38621501.56	1.9623	A	0.7
4	☐	3125.000	3174.518	95185034.77	4.7669	A	2.2
5	☐	6250.000	6313.255	186095524.9	9.4801	A	1.5
6	☐	12500.000	13250.159	378154614.0	19.8967	A	2.5
7	☐	25000.000	24600.077	760608883.6	36.9400	A	6.4
8	☐			253379.30	0.0132	P	11.2

$$y = 0.0015 * x + 1.7750\text{E-}005$$

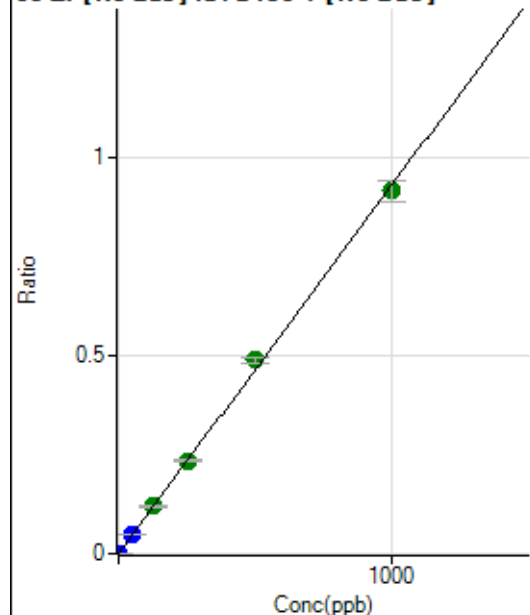
$$R = 0.9993$$

$$DL = 0.005852$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	775.04	0.0000	P	14.2
2	☐	1.000	0.934	18381.42	0.0009	P	1.5
3	☐	50.000	53.617	979646.76	0.0498	P	0.2
4	☐	125.000	127.954	2370743.24	0.1187	A	2.5
5	☐	250.000	252.786	4603734.48	0.2345	A	1.8
6	☐	500.000	526.486	9282480.76	0.4884	A	3.3
7	☐	1000.000	985.510	18824416.57	0.9142	A	6.1
8	☐			9597.93	0.0005	P	6.7

$$y = 9.2761E-004 * x + 3.8140E-005$$

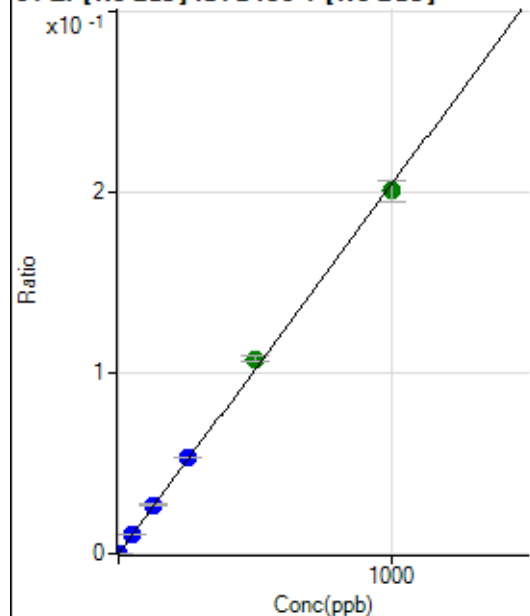
$$R = 0.9995$$

$$DL = 0.01751$$

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	158.34	0.0000	P	24.8
2	☐	1.000	0.948	4086.79	0.0002	P	3.9
3	☐	50.000	53.905	216694.79	0.0110	P	1.5
4	☐	125.000	131.502	536003.52	0.0268	P	2.7
5	☐	250.000	259.254	1038659.05	0.0529	P	0.7
6	☐	500.000	527.109	2044490.15	0.1076	A	3.1
7	☐	1000.000	983.124	4131325.78	0.2006	A	5.8
8	☐			2027.98	0.0001	P	7.9

$$y = 2.0407E-004 * x + 7.7978E-006$$

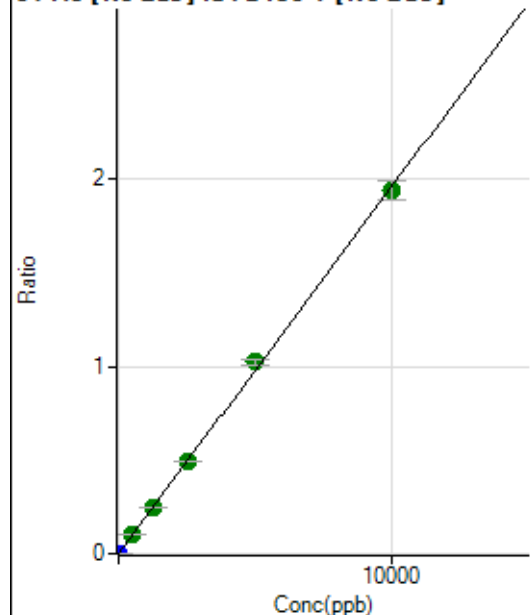
$$R = 0.9994$$

$$DL = 0.02847$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	280.57	0.0000	P	36.3
2	☐	5.000	5.228	21107.26	0.0010	P	2.4
3	☐	500.000	517.214	1995972.20	0.1014	A	1.2
4	☐	1250.000	1257.340	4922820.16	0.2465	A	2.7
5	☐	2500.000	2497.052	9610283.20	0.4896	A	0.3
6	☐	5000.000	5216.996	19441057.73	1.0229	A	3.0
7	☐	10000.000	9890.461	39934794.30	1.9392	A	5.3
8	☐			15892.31	0.0008	P	10.3

$$y = 1.9607E-004 * x + 1.3812E-005$$

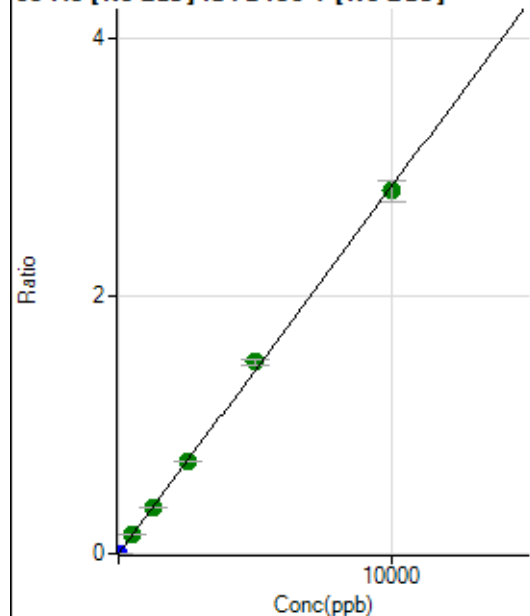
$$R = 0.9997$$

$$DL = 0.07662$$

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	50.00	0.0000	P	49.3
2	☐	5.000	4.473	25923.52	0.0013	P	1.7
3	☐	500.000	522.445	2927146.03	0.1487	A	0.8
4	☐	1250.000	1258.883	7155692.44	0.3584	A	2.2
5	☐	2500.000	2517.575	14067204.31	0.7167	A	0.5
6	☐	5000.000	5219.979	28243015.91	1.4859	A	2.6
7	☐	10000.000	9883.384	57931592.96	2.8134	A	5.9
8	☐			22659.63	0.0012	P	5.2

$$y = 2.8466E-004 * x + 2.4528E-006$$

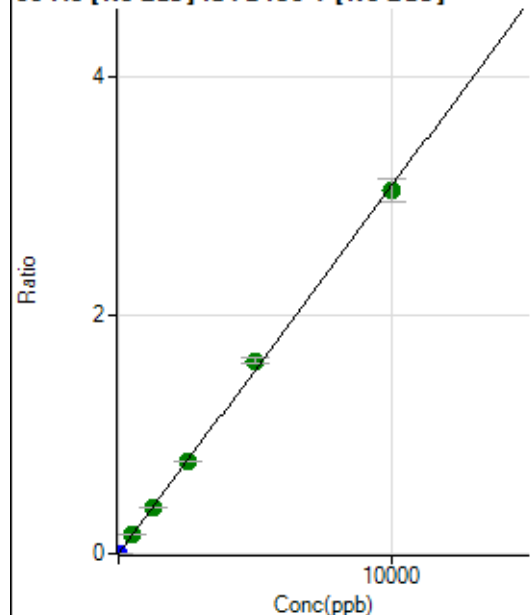
$$R = 0.9996$$

$$DL = 0.01275$$

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	133.34	0.0000	P	12.2
2	☐	5.000	4.563	28776.14	0.0014	P	2.2
3	☐	500.000	517.683	3148084.03	0.1599	A	1.1
4	☐	1250.000	1260.875	7777866.15	0.3895	A	2.0
5	☐	2500.000	2504.702	15188221.52	0.7738	A	0.4
6	☐	5000.000	5252.892	30842565.97	1.6227	A	2.8
7	☐	10000.000	9870.135	62778975.01	3.0491	A	6.5
8	☐			34694.81	0.0018	P	7.4

$$y = 3.0892E-004 * x + 6.5561E-006$$

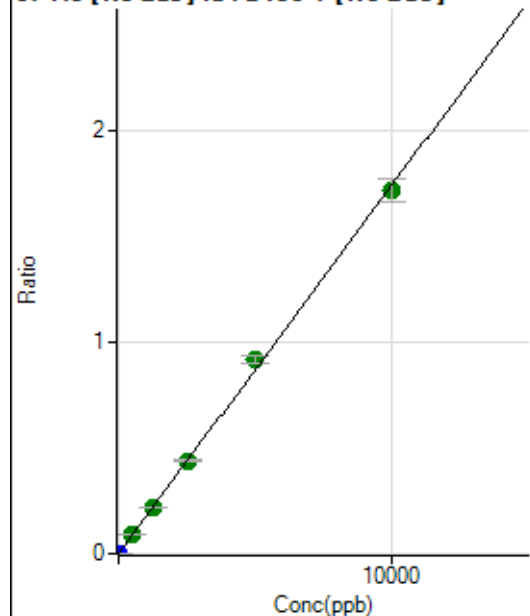
$$R = 0.9995$$

$$DL = 0.007741$$

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	22.22	0.0000	P	78.0
2	☐	5.000	4.504	15972.97	0.0008	P	3.1
3	☐	500.000	516.769	1773133.05	0.0901	A	0.5
4	☐	1250.000	1259.423	4383797.84	0.2195	A	2.8
5	☐	2500.000	2523.096	8633235.35	0.4398	A	1.8
6	☐	5000.000	5270.706	17461885.29	0.9188	A	3.3
7	☐	10000.000	9856.857	35378461.55	1.7183	A	6.3
8	☐			12883.84	0.0007	P	13.1

$$y = 1.7432E-004 * x + 1.0941E-006$$

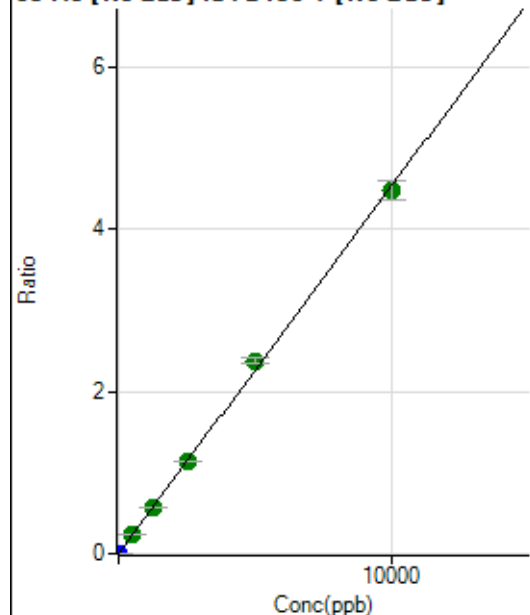
$$R = 0.9994$$

$$DL = 0.01469$$

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	108.34	0.0000	P	14.0
2	☐	5.000	4.453	41080.68	0.0020	P	2.9
3	☐	500.000	517.785	4615374.10	0.2345	A	0.1
4	☐	1250.000	1255.797	11356081.50	0.5687	A	2.2
5	☐	2500.000	2506.613	22282807.44	1.1352	A	1.3
6	☐	5000.000	5255.801	45235878.44	2.3802	A	3.1
7	☐	10000.000	9868.832	92033176.36	4.4693	A	5.4
8	☐			31860.73	0.0017	P	12.1

$$y = 4.5287E-004 * x + 5.3319E-006$$

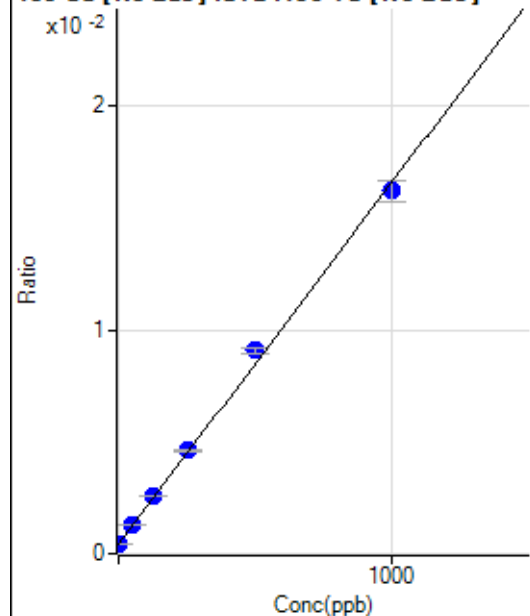
$$R = 0.9995$$

$$DL = 0.004929$$

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	6943.49	0.0004	P	3.1
2	☐	1.000	1.480	7360.41	0.0005	P	2.5
3	☐	50.000	54.489	20420.39	0.0013	P	2.2
4	☐	125.000	133.979	41175.59	0.0026	P	1.9
5	☐	250.000	259.327	73031.43	0.0046	P	2.2
6	☐	500.000	536.047	139051.13	0.0091	P	2.7
7	☐	1000.000	978.297	268130.22	0.0162	P	5.9
8	☐			6723.93	0.0004	P	4.7

$$y = 1.6117E-005 * x + 4.3427E-004$$

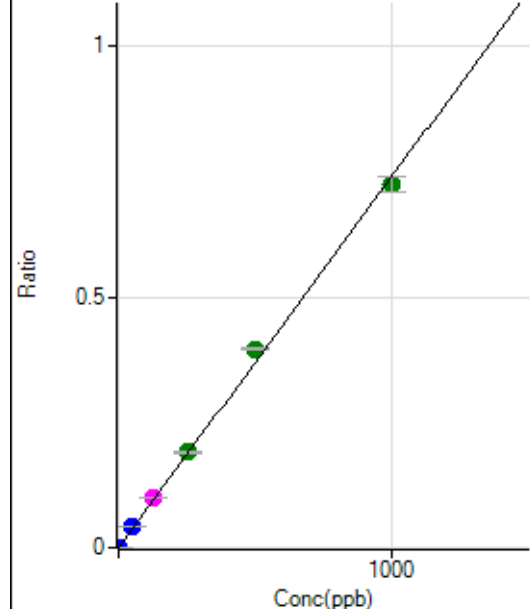
$$R = 0.9990$$

$$DL = 2.516$$

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	72.22	0.0000	P	48.2
2	☐	1.000	1.019	12177.65	0.0008	P	4.7
3	☐	50.000	56.267	647540.53	0.0416	P	0.9
4	☐	125.000	135.210	1587230.91	0.1000	M	1.6
5	☐	250.000	257.488	3013587.50	0.1904	A	1.4
6	☐	500.000	535.669	6069612.07	0.3961	A	1.4
7	☐	1000.000	978.704	11979812.94	0.7237	A	4.4
8	☐			5612.34	0.0004	P	3.3

$$y = 7.3939E-004 * x + 4.5195E-006$$

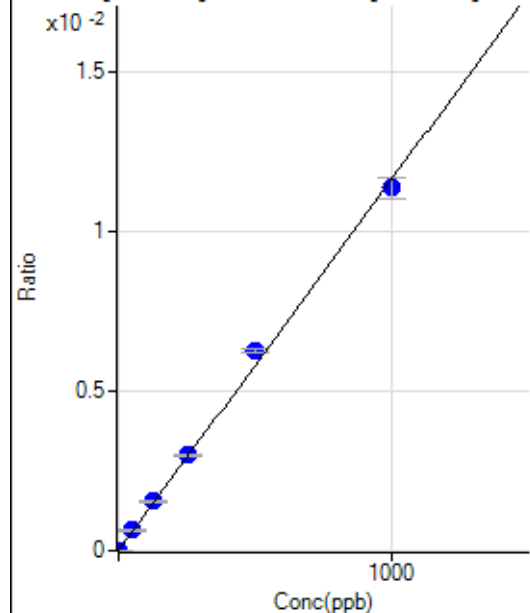
$$R = 0.9990$$

$$DL = 0.008834$$

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	20.83	0.0000	P	34.5
2	☐	1.000	0.929	194.45	0.0000	P	11.9
3	☐	50.000	55.062	9981.32	0.0006	P	4.0
4	☐	125.000	133.741	24712.83	0.0016	P	3.6
5	☐	250.000	256.755	47286.51	0.0030	P	2.8
6	☐	500.000	538.469	95982.99	0.0063	P	2.6
7	☐	1000.000	977.731	188216.14	0.0114	P	6.2
8	☐			125.00	0.0000	P	4.1

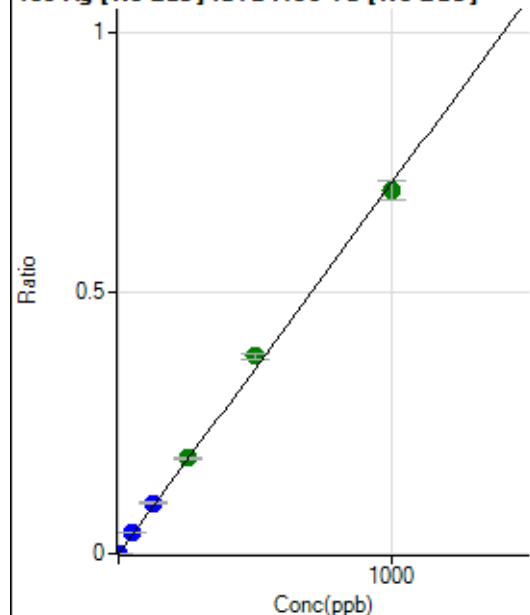
$$y = 1.1630E-005 * x + 1.3023E-006$$

$$R = 0.9988$$

$$DL = 0.1159$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	38.89	0.0000	P	49.5
2	☐	1.000	1.010	11554.87	0.0007	P	4.5
3	☐	50.000	56.765	627125.25	0.0403	P	1.8
4	☐	125.000	137.018	1544201.37	0.0973	P	2.6
5	☐	250.000	259.105	2911466.23	0.1839	A	2.0
6	☐	500.000	532.502	5792677.91	0.3780	A	2.3
7	☐	1000.000	979.632	11510572.22	0.6954	A	5.1
8	☐			5542.89	0.0004	P	6.1

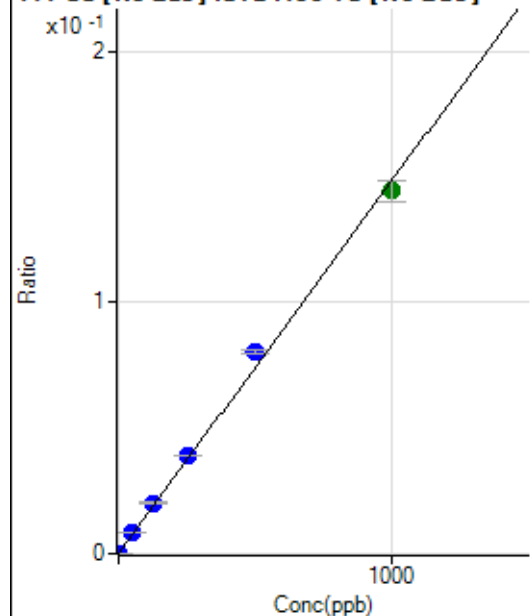
$$y = 7.0988\text{E-}004 * x + 2.4328\text{E-}006$$

$$R = 0.9991$$

$$DL = 0.005091$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	702.03	0.0000	P	3.1
2	☐	1.000	1.037	3176.73	0.0002	P	3.9
3	☐	50.000	55.767	129381.63	0.0083	P	0.7
4	☐	125.000	134.881	318228.60	0.0200	P	2.7
5	☐	250.000	262.883	617737.73	0.0390	P	1.5
6	☐	500.000	542.515	1233476.34	0.0805	P	2.6
7	☐	1000.000	973.998	2391061.53	0.1445	A	6.0
8	☐			1750.56	0.0001	P	10.0

$$y = 1.4829\text{E-}004 * x + 4.3906\text{E-}005$$

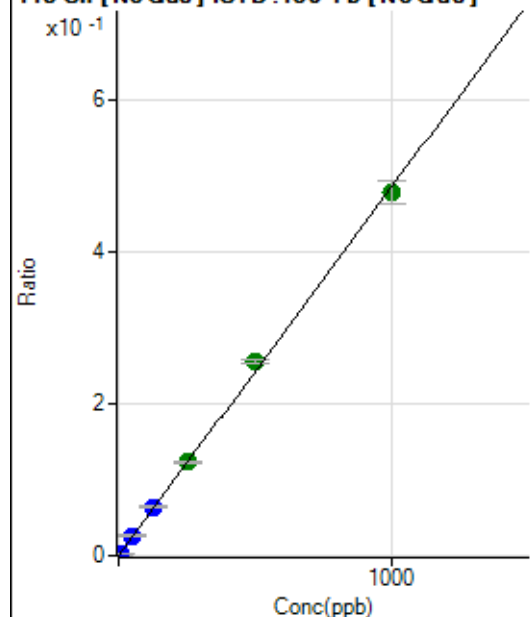
$$R = 0.9985$$

$$DL = 0.02732$$

Weight: <None>

Min Conc: 0

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1794.63	0.0001	P	13.5
2	☐	5.000	4.927	40218.06	0.0025	P	2.5
3	☐	50.000	54.315	411888.56	0.0265	P	1.3
4	☐	125.000	131.672	1016022.91	0.0640	P	3.1
5	☐	250.000	254.383	1955490.19	0.1235	A	2.2
6	☐	500.000	526.788	3918520.44	0.2557	A	2.3
7	☐	1000.000	984.461	7906642.36	0.4778	A	6.3
8	☐			14774.59	0.0010	P	3.2

$$y = 4.8521\text{E-}004 * x + 1.1226\text{E-}004$$

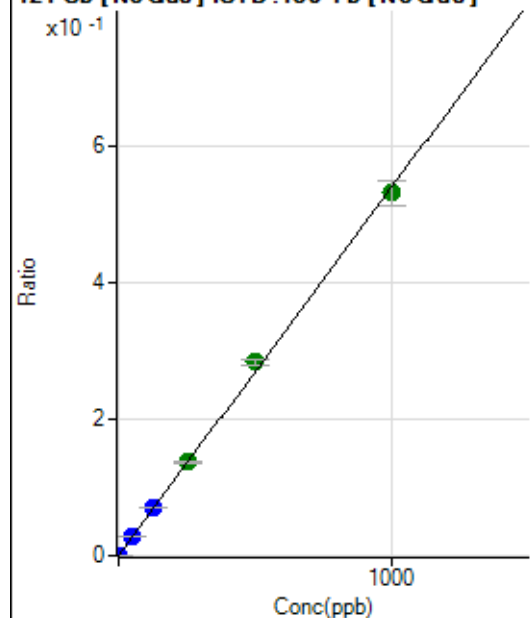
$$R = 0.9994$$

$$DL = 0.09376$$

Weight: <None>

Min Conc: 0

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	72.22	0.0000	P	6.7
2	☐	2.000	1.916	16668.32	0.0010	P	4.5
3	☐	50.000	53.670	450218.74	0.0289	P	0.9
4	☐	125.000	130.792	1119116.03	0.0705	P	2.6
5	☐	250.000	253.703	2164322.10	0.1367	A	2.0
6	☐	500.000	525.795	4342604.35	0.2834	A	2.5
7	☐	1000.000	985.270	8786754.97	0.5310	A	6.8
8	☐			9336.62	0.0006	P	2.6

$$y = 5.3894\text{E-}004 * x + 4.5171\text{E-}006$$

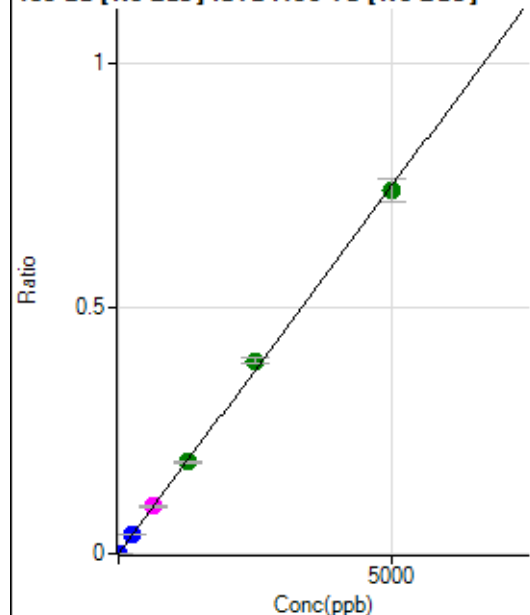
$$R = 0.9995$$

$$DL = 0.001692$$

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	44.44	0.0000	P	21.7
2	☐	10.000	9.615	23169.35	0.0014	P	2.7
3	☐	250.000	262.154	610776.23	0.0392	P	1.1
4	☐	625.000	642.363	1526518.80	0.0962	M	2.7
5	☐	1250.000	1248.741	2958744.71	0.1869	A	1.8
6	☐	2500.000	2620.269	6010468.71	0.3922	A	2.8
7	☐	5000.000	4937.403	12230152.96	0.7391	A	6.4
8	☐			5934.73	0.0004	P	12.4

$$y = 1.4969E-004 * x + 2.7799E-006$$

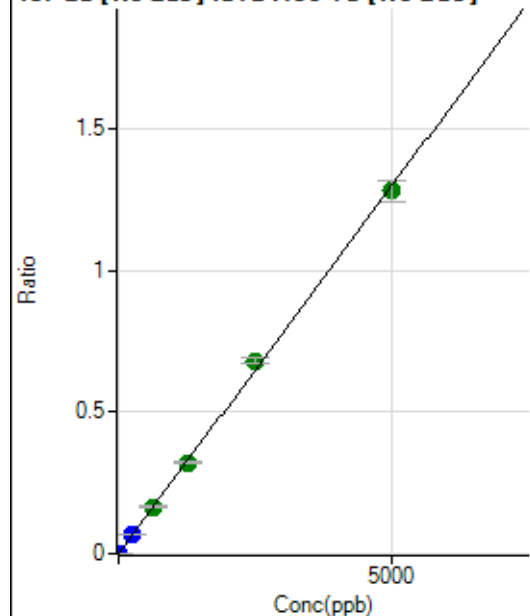
$$R = 0.9996$$

$$DL = 0.0121$$

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	69.45	0.0000	P	30.2
2	☐	10.000	9.419	39307.79	0.0024	P	0.7
3	☐	250.000	263.089	1061559.72	0.0682	P	0.9
4	☐	625.000	639.386	2631651.64	0.1658	A	2.8
5	☐	1250.000	1242.654	5099499.51	0.3222	A	1.0
6	☐	2500.000	2624.548	10426692.85	0.6804	A	3.5
7	☐	5000.000	4937.111	21184153.95	1.2800	A	5.9
8	☐			10176.12	0.0007	P	8.0

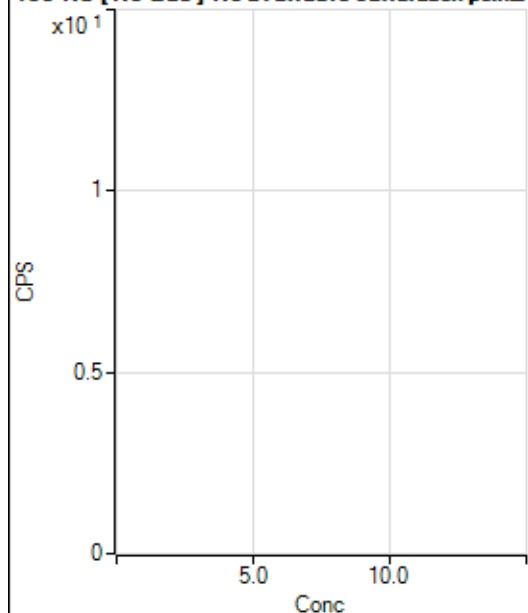
$$y = 2.5926E-004 * x + 4.3435E-006$$

$$R = 0.9995$$

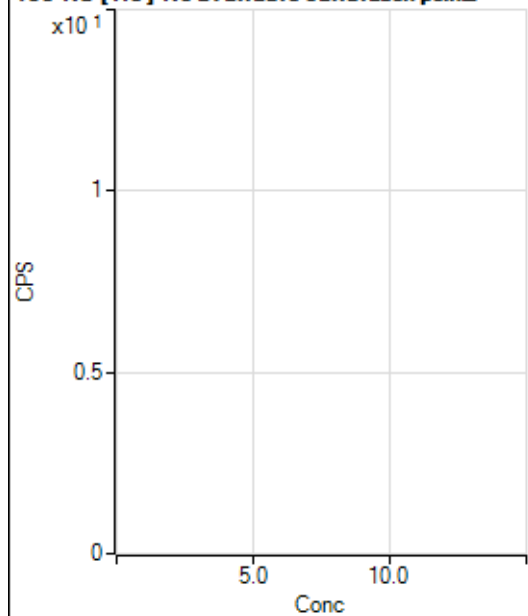
$$DL = 0.01517$$

Weight: <None>

Min Conc: 0

150 Nd [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			13.33		P	132.
2	☐			8.89		P	43.3
3	☐			71.11		P	5.4
4	☐			135.56		P	30.1
5	☐			228.90		P	11.8
6	☐			480.02		P	10.5
7	☐			1006.73		P	7.3
8	☐			86.67		P	13.3

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	☐			14.44		P	13.4
4	☐			25.55		P	27.1
5	☐			66.67		P	22.9
6	☐			110.00		P	21.2
7	☐			207.78		P	3.7
8	☐			55.56		P	40.0

156 Dy [No Gas] No available calibration points

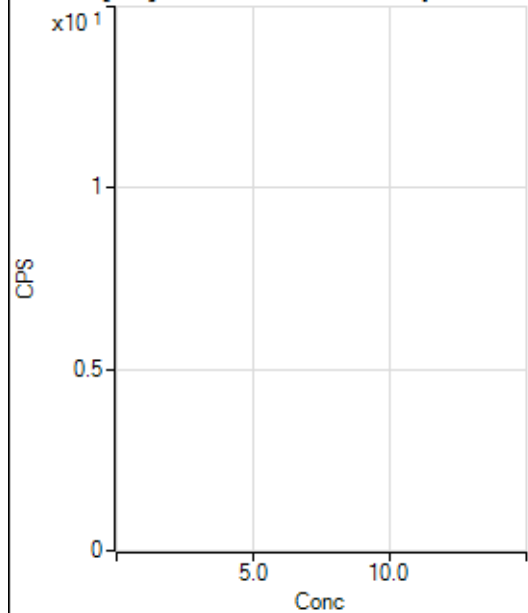
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			19.44		P	65.5
2	☐			13.89		P	34.7
3	☐			25.00		P	33.3
4	☐			75.00		P	19.2
5	☐			138.89		P	27.7
6	☐			250.01		P	15.3
7	☐			550.02		P	10.9
8	☐			1555.68		P	8.3

156 Dy [He] No available calibration points

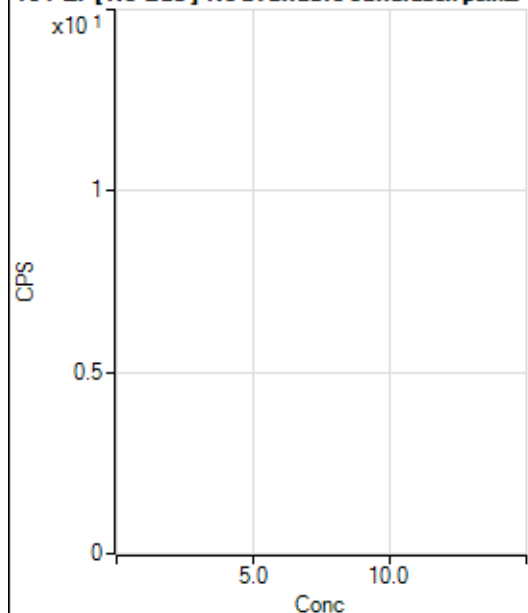
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			4.45		P	86.6
2	☐			7.78		P	24.7
3	☐			44.45		P	15.6
4	☐			71.11		P	27.1
5	☐			165.56		P	12.1
6	☐			313.34		P	2.8
7	☐			608.91		P	13.0
8	☐			1072.28		P	7.0

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

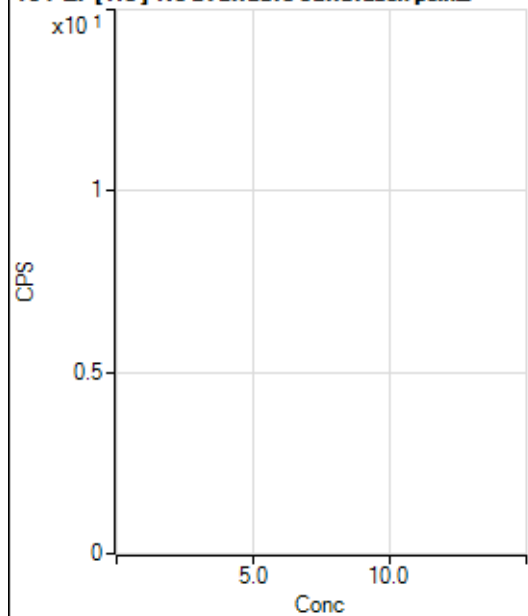
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			77.78		P	43.3
2	☐			80.56		P	41.8
3	☐			133.34		P	12.5
4	☐			105.56		P	19.9
5	☐			216.67		P	7.7
6	☐			227.79		P	27.0
7	☐			500.02		P	13.3
8	☐			1327.88		P	7.4

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			476.68		P	1.2
2	☐			468.90		P	5.4
3	☐			483.35		P	12.0
4	☐			457.79		P	7.8
5	☐			554.46		P	6.4
6	☐			558.91		P	0.9
7	☐			668.91		P	10.2
8	☐			1291.18		P	5.2

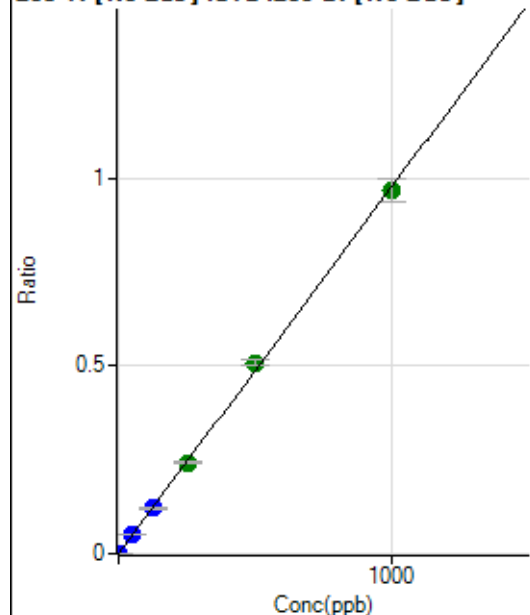
164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			91.67		P	32.8
2	☐			36.11		P	35.3
3	☐			75.00		P	19.2
4	☐			80.56		P	6.0
5	☐			97.23		P	13.1
6	☐			116.67		P	46.8
7	☐			169.45		P	28.8
8	☐			158.34		P	18.2

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			56.66		P	10.2
2	☐			53.33		P	22.5
3	☐			54.44		P	21.5
4	☐			45.55		P	8.5
5	☐			64.44		P	39.2
6	☐			83.33		P	4.0
7	☐			107.78		P	9.4
8	☐			106.66		P	19.5

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	130.56	0.0000	P	20.2
2	☐	1.000	0.934	9409.08	0.0009	P	0.6
3	☐	50.000	50.029	485452.97	0.0489	P	0.5
4	☐	125.000	123.814	1216631.92	0.1210	P	2.2
5	☐	250.000	248.636	2436172.21	0.2430	A	0.5
6	☐	500.000	521.526	4876293.95	0.5097	A	2.6
7	☐	1000.000	989.725	9790909.51	0.9672	A	6.5
8	☐			2478.07	0.0003	P	13.7

$$y = 9.7724\text{E-}004 * x + 1.2919\text{E-}005$$

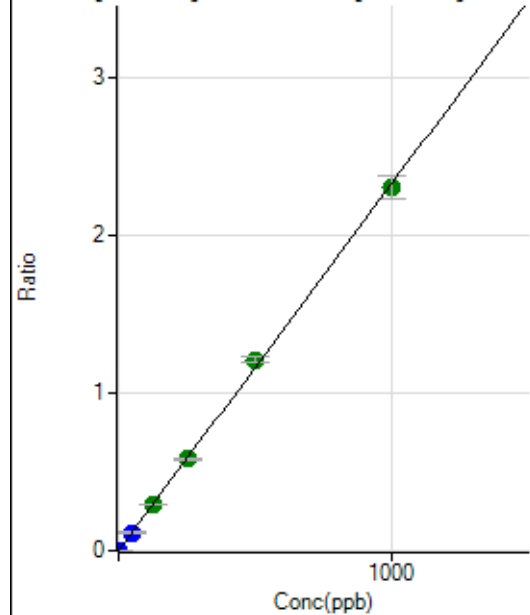
$$R = 0.9997$$

$$DL = 0.008029$$

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	350.01	0.0000	P	19.4
2	☐	1.000	0.908	21809.60	0.0021	P	2.8
3	☐	50.000	49.675	1147571.95	0.1156	P	0.6
4	☐	125.000	125.023	2924388.85	0.2909	A	1.8
5	☐	250.000	249.390	5816913.37	0.5802	A	1.1
6	☐	500.000	521.301	11601818.05	1.2127	A	3.1
7	☐	1000.000	989.516	23304264.58	2.3019	A	6.2
8	☐			6204.39	0.0007	P	18.0

$$y = 0.0023 * x + 3.4666\text{E-}005$$

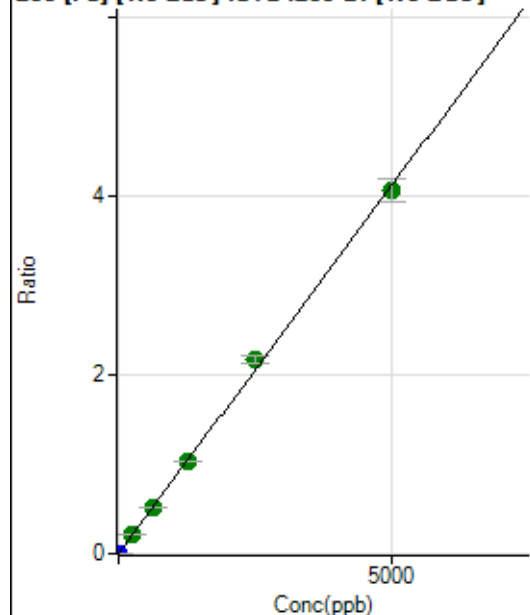
$$R = 0.9997$$

$$DL = 0.008672$$

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	370.38	0.0000	P	7.9
2	☐	1.000	0.866	7622.64	0.0008	P	3.2
3	☐	250.000	256.449	2096974.32	0.2112	A	1.5
4	☐	625.000	631.872	5231407.52	0.5203	A	1.7
5	☐	1250.000	1256.274	10371473.15	1.0345	A	0.5
6	☐	2500.000	2632.823	20741012.04	2.1680	A	3.5
7	☐	5000.000	4930.838	41101598.14	4.0602	A	6.4
8	☐			10181.79	0.0012	P	10.7

$$y = 8.2343\text{E-}004 * x + 3.6658\text{E-}005$$

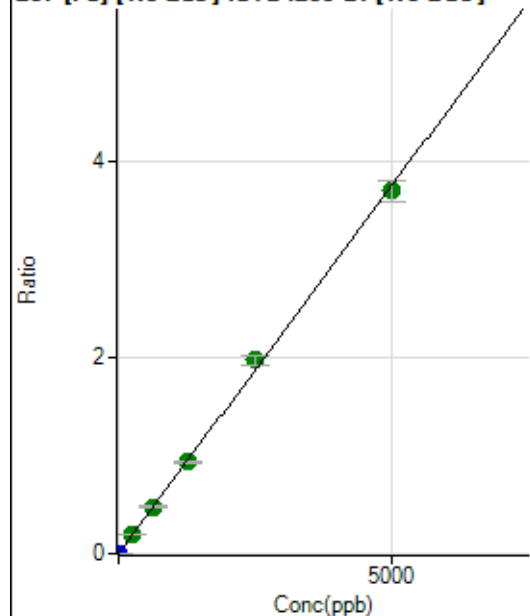
$$R = 0.9995$$

$$DL = 0.01049$$

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	283.34	0.0000	P	5.3
2	☐	1.000	0.833	6629.53	0.0007	P	0.9
3	☐	250.000	256.444	1907542.48	0.1921	A	0.6
4	☐	625.000	636.576	4794528.52	0.4769	A	1.5
5	☐	1250.000	1246.176	9359779.03	0.9336	A	1.3
6	☐	2500.000	2630.753	18851853.20	1.9708	A	4.3
7	☐	5000.000	4933.810	37417958.71	3.6960	A	5.5
8	☐			8880.83	0.0011	P	11.8

$$y = 7.4911\text{E-}004 * x + 2.8050\text{E-}005$$

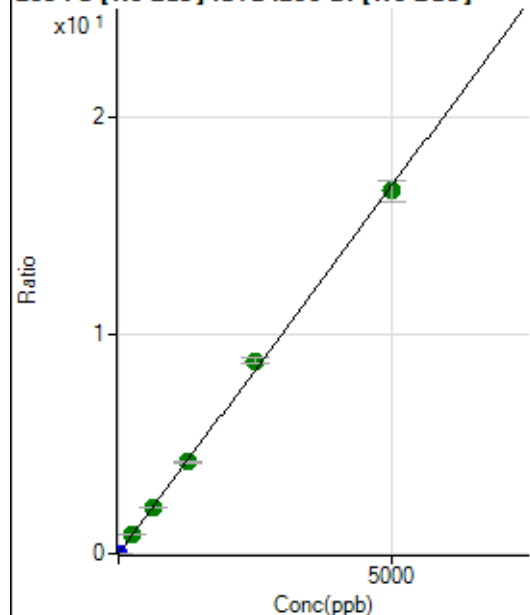
$$R = 0.9995$$

$$DL = 0.005908$$

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	1340.79	0.0001	P	10.3
2	☐	1.000	0.851	30432.38	0.0030	P	2.2
3	☐	250.000	254.966	8517813.83	0.8580	A	0.3
4	☐	625.000	631.525	21364717.43	2.1250	A	2.1
5	☐	1250.000	1246.678	42057162.86	4.1948	A	1.5
6	☐	2500.000	2627.797	84586069.94	8.8418	A	3.8
7	☐	5000.000	4935.868	168120202.3	16.6077	A	6.1
8	☐			40325.95	0.0048	P	12.0

$$y = 0.0034 * x + 1.3269E-004$$

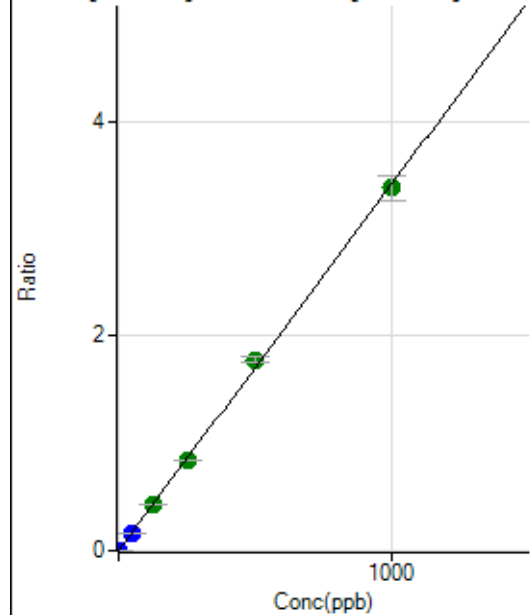
$$R = 0.9995$$

$$DL = 0.01216$$

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	33.33	0.0000	P	49.6
2	☐	1.000	0.854	29661.48	0.0029	P	1.0
3	☐	50.000	47.386	1605194.49	0.1617	P	0.5
4	☐	125.000	124.294	4264116.85	0.4241	A	1.1
5	☐	250.000	246.140	8421299.84	0.8399	A	1.3
6	☐	500.000	521.587	17028620.52	1.7799	A	3.4
7	☐	1000.000	990.390	34208766.04	3.3796	A	6.8
8	☐			4198.05	0.0005	P	33.5

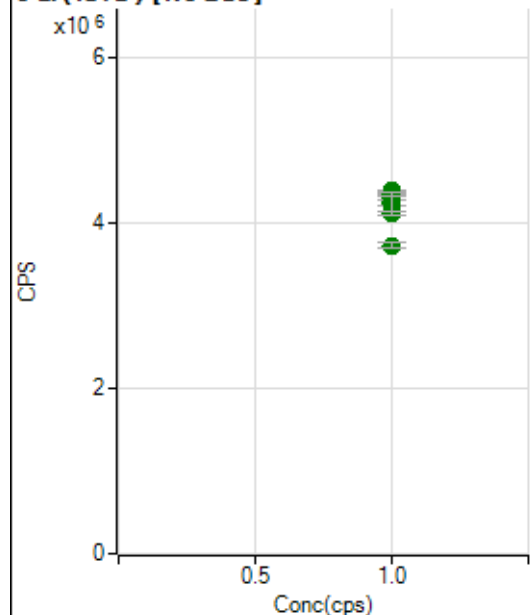
$$y = 0.0034 * x + 3.2957E-006$$

$$R = 0.9996$$

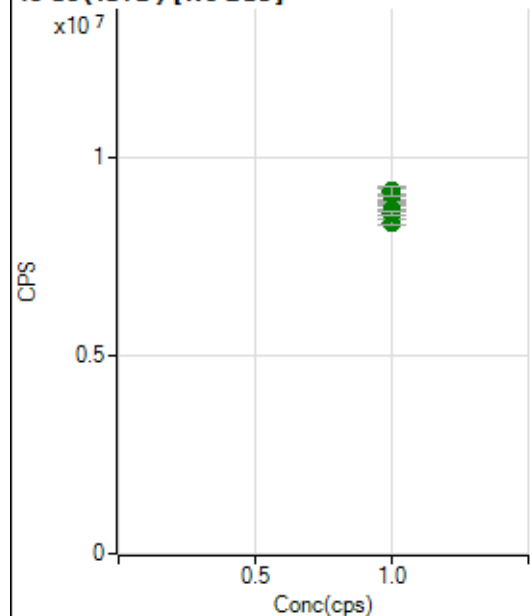
$$DL = 0.001438$$

Weight: <None>

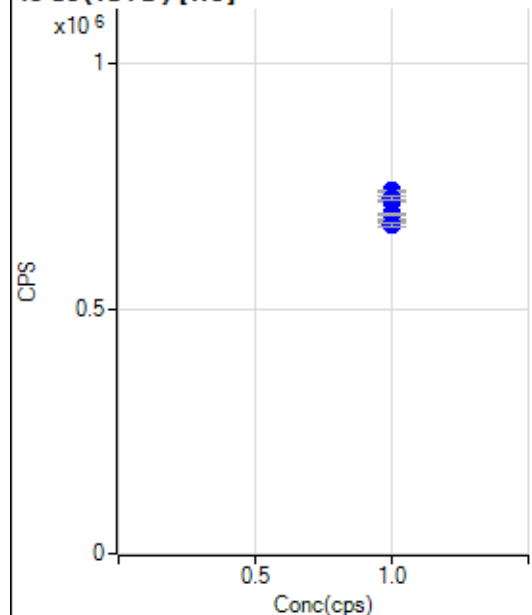
Min Conc: 0

6 Li (ISTD) [No Gas]

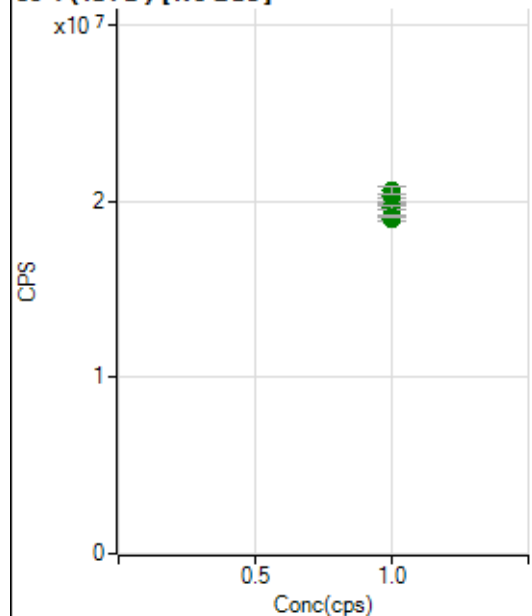
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4299088.86		A	1.2
2	☐	1.000		4323256.05		A	0.6
3	☐	1.000		4240122.58		A	1.7
4	☐	1.000		4381375.98		A	0.3
5	☐	1.000		4347523.23		A	1.1
6	☐	1.000		4106826.12		A	0.8
7	☐	1.000		4229976.43		A	4.5
8	☐	1.000		3726861.27		A	1.3

45 Sc (ISTD) [No Gas]

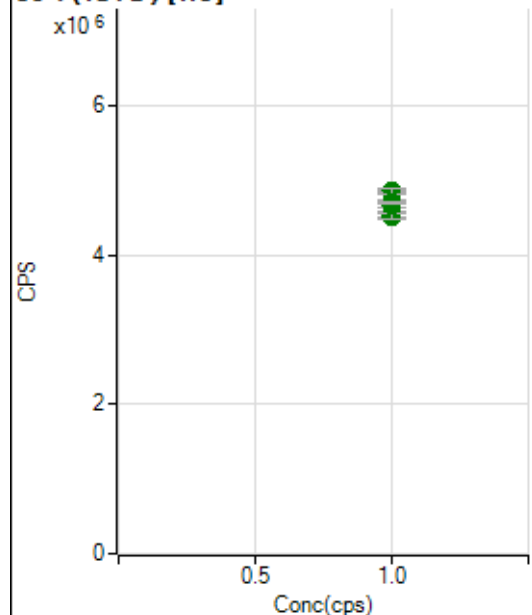
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		9073513.62		A	0.4
2	☐	1.000		9151800.49		A	1.5
3	☐	1.000		8860729.73		A	1.9
4	☐	1.000		8860197.30		A	0.6
5	☐	1.000		8687199.17		A	0.4
6	☐	1.000		8380320.43		A	1.6
7	☐	1.000		9165851.95		A	2.5
8	☐	1.000		8602479.87		A	1.5

45 Sc (ISTD) [He]

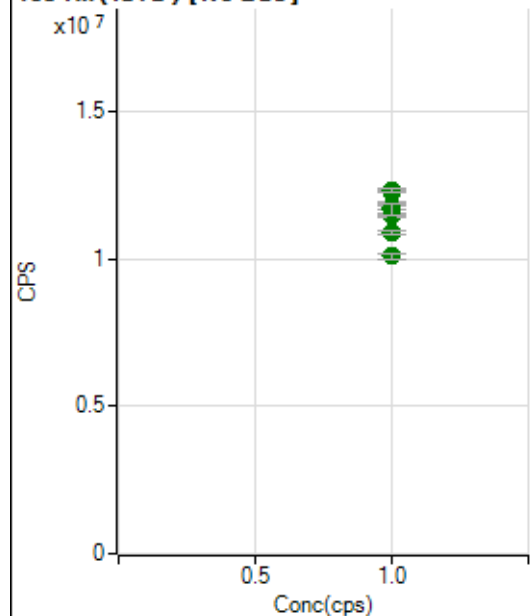
	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		737720.55		P	0.4
2	☐	1.000		740504.70		P	0.3
3	☐	1.000		720213.90		P	0.5
4	☐	1.000		692814.54		P	0.7
5	☐	1.000		680678.00		P	0.5
6	☐	1.000		670399.44		P	1.4
7	☐	1.000		693188.89		P	0.7
8	☐	1.000		725394.15		P	0.9

89 Y (ISTD) [No Gas]

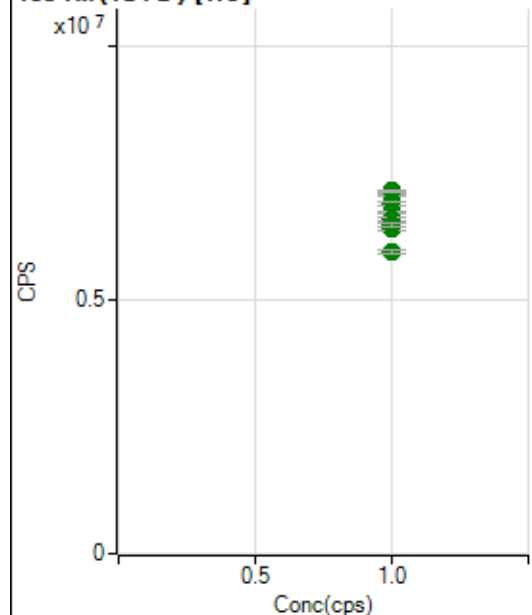
	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		20331658.31		A	0.8
2	☐	1.000		20316948.59		A	0.8
3	☐	1.000		19682040.26		A	1.9
4	☐	1.000		19968862.76		A	0.5
5	☐	1.000		19628270.54		A	1.3
6	☐	1.000		19009299.85		A	1.5
7	☐	1.000		20608303.72		A	2.2
8	☐	1.000		19134988.60		A	0.7

89 Y(ISTD) [He]

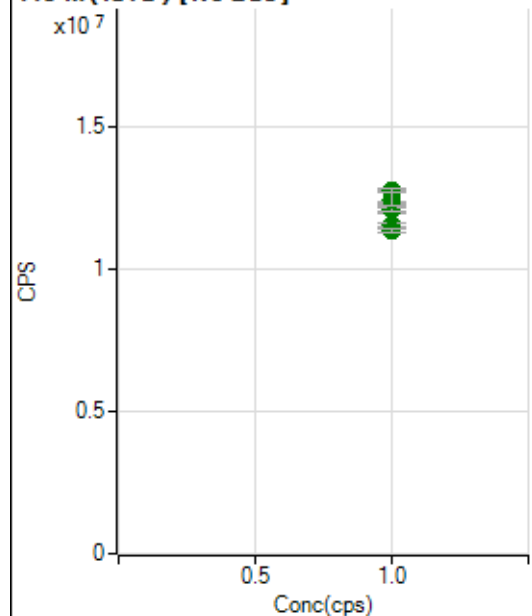
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4857865.52		A	0.9
2	☐	1.000		4866581.66		A	1.3
3	☐	1.000		4726069.23		A	0.6
4	☐	1.000		4574569.45		A	0.7
5	☐	1.000		4543155.35		A	0.9
6	☐	1.000		4526005.73		A	1.9
7	☐	1.000		4668126.56		A	0.8
8	☐	1.000		4705833.09		A	0.7

103 Rh(ISTD) [No Gas]

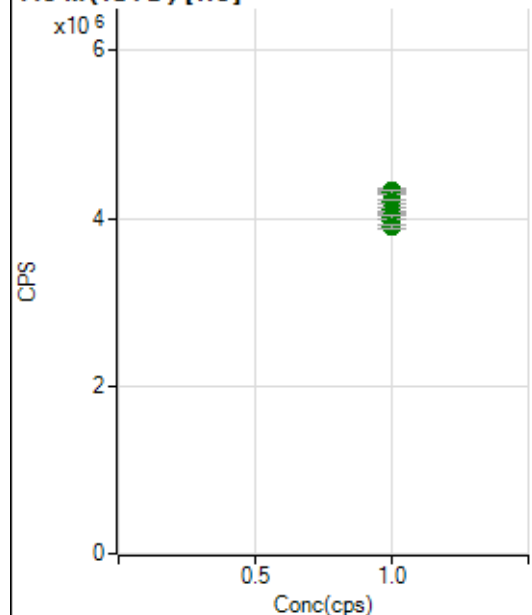
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		12291061.90		A	0.8
2	☐	1.000		12317952.45		A	1.0
3	☐	1.000		11815563.02		A	2.6
4	☐	1.000		11741552.33		A	0.9
5	☐	1.000		11509233.16		A	1.0
6	☐	1.000		10915001.64		A	1.4
7	☐	1.000		11678741.49		A	3.4
8	☐	1.000		10090971.45		A	1.7

103 Rh (ISTD) [He]

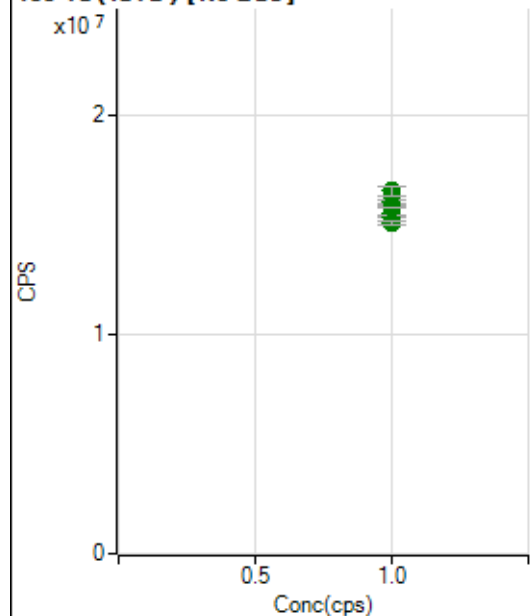
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7082068.44		A	0.6
2	☐	1.000		7148610.80		A	0.6
3	☐	1.000		6900237.81		A	1.0
4	☐	1.000		6741291.91		A	0.6
5	☐	1.000		6581486.15		A	1.3
6	☐	1.000		6410065.67		A	1.3
7	☐	1.000		6467882.33		A	1.2
8	☐	1.000		5947521.09		A	1.0

115 In (ISTD) [No Gas]

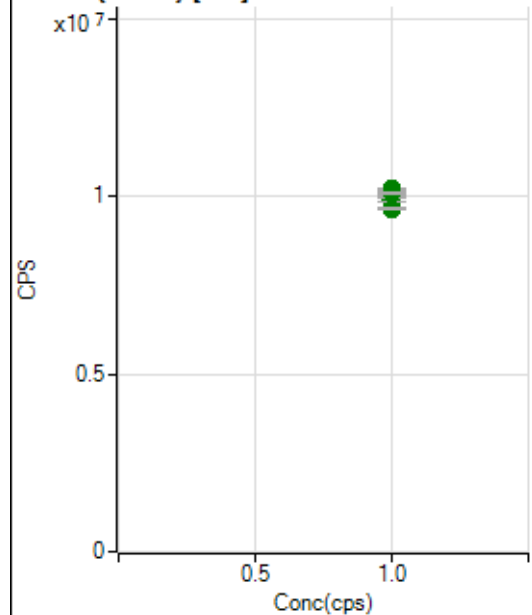
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		12703276.23		A	0.9
2	☐	1.000		12720835.64		A	0.9
3	☐	1.000		12152092.75		A	3.1
4	☐	1.000		12297055.66		A	0.3
5	☐	1.000		12045640.59		A	1.1
6	☐	1.000		11528553.64		A	1.2
7	☐	1.000		12439182.47		A	3.4
8	☐	1.000		11311773.00		A	1.1

115 In (ISTD) [He]

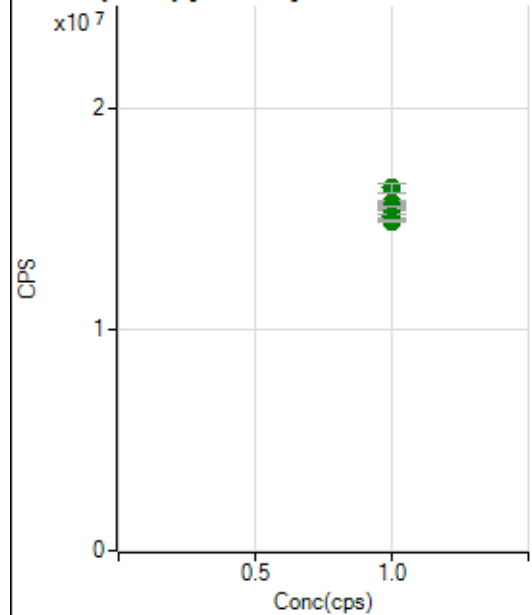
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4326347.06		A	1.1
2	☐	1.000		4309225.24		A	1.0
3	☐	1.000		4193063.65		A	1.1
4	☐	1.000		4098625.16		A	1.1
5	☐	1.000		4067727.16		A	0.3
6	☐	1.000		3961470.49		A	1.7
7	☐	1.000		4003221.75		A	1.1
8	☐	1.000		3901477.94		A	1.6

159 Tb (ISTD) [No Gas]

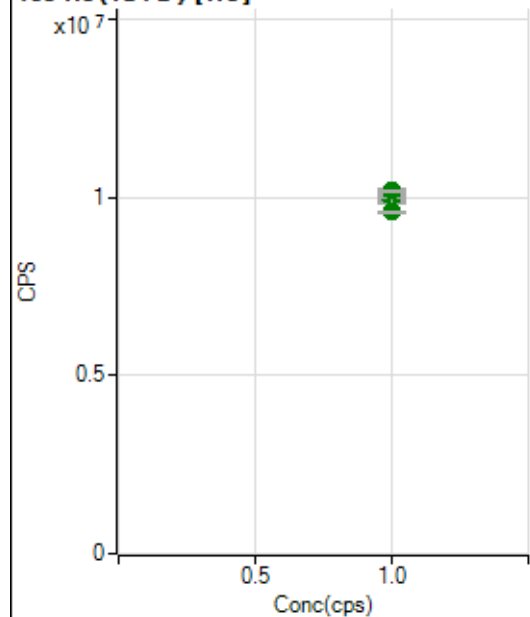
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		15989253.79		A	0.2
2	☐	1.000		16067766.57		A	0.7
3	☐	1.000		15565081.57		A	3.0
4	☐	1.000		15876410.04		A	0.4
5	☐	1.000		15828359.63		A	0.2
6	☐	1.000		15325524.35		A	1.6
7	☐	1.000		16564762.53		A	2.4
8	☐	1.000		15087012.55		A	0.8

159 Tb (ISTD) [He]

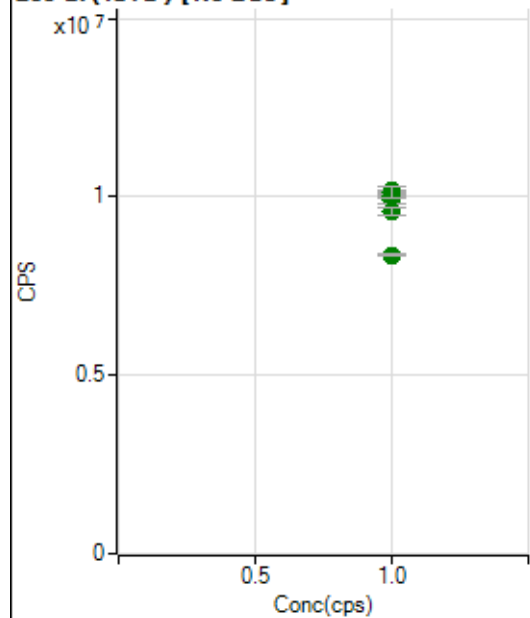
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		10182447.83		A	0.6
2	☐	1.000		10206225.68		A	0.5
3	☐	1.000		10034672.77		A	0.6
4	☐	1.000		10017153.74		A	1.2
5	☐	1.000		10049894.78		A	0.5
6	☐	1.000		9909674.23		A	1.0
7	☐	1.000		10100642.77		A	0.5
8	☐	1.000		9635041.87		A	0.7

165 Ho (ISTD) [No Gas]

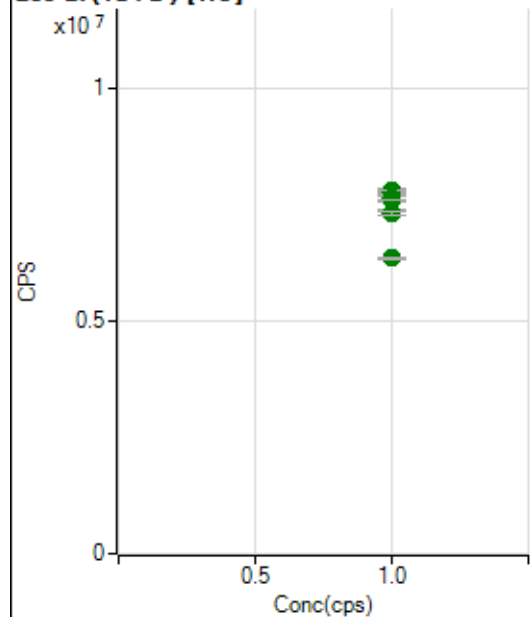
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		15580399.35		A	0.4
2	☐	1.000		15722139.07		A	0.5
3	☐	1.000		15214828.25		A	2.0
4	☐	1.000		15575849.77		A	1.1
5	☐	1.000		15512452.41		A	0.8
6	☐	1.000		15110299.50		A	1.0
7	☐	1.000		16380905.45		A	2.4
8	☐	1.000		14886791.86		A	0.9

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		10059430.62		A	0.5
2	☐	1.000		10184077.14		A	1.5
3	☐	1.000		9969211.80		A	0.7
4	☐	1.000		9936556.80		A	1.1
5	☐	1.000		10122528.95		A	1.5
6	☐	1.000		9917042.70		A	1.6
7	☐	1.000		10181770.54		A	0.3
8	☐	1.000		9593810.48		A	0.6

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		10101742.35		A	0.4
2	☐	1.000		10162783.80		A	0.2
3	☐	1.000		9927490.34		A	2.6
4	☐	1.000		10053139.36		A	0.6
5	☐	1.000		10025528.60		A	0.8
6	☐	1.000		9570189.93		A	2.1
7	☐	1.000		10135429.99		A	3.2
8	☐	1.000		8361505.29		A	0.6

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7781842.52		A	1.0
2	☐	1.000		7754675.93		A	1.3
3	☐	1.000		7621402.94		A	0.8
4	☐	1.000		7578002.87		A	0.6
5	☐	1.000		7599473.92		A	0.1
6	☐	1.000		7312781.70		A	1.5
7	☐	1.000		7309673.85		A	1.4
8	☐	1.000		6336435.25		A	0.5

US EPA Tune Check Report

Operator Name Jaswal

Acq/Data Batch D:\Agilent\ICPMH\1\DATA\IP7111622-MS.b

Acq. Date-Time 2022-11-16 12:05:21

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		13254	132541.01			0.502	5.000
24		2060663	20606632.83			1.801	5.000
25		284517	2845165.05			1.891	5.000
26		300563	3005627.84			2.586	5.000
59		101867	1018667.43			2.393	5.000
113		10580	105800.79			0.476	5.000
115		139243	1392426.44			1.261	5.000
206		33339	333391.20			0.821	5.000
207		30425	304245.72			0.753	5.000
208		71464	714636.79			0.471	5.000
220		0	2.80			48.247	

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

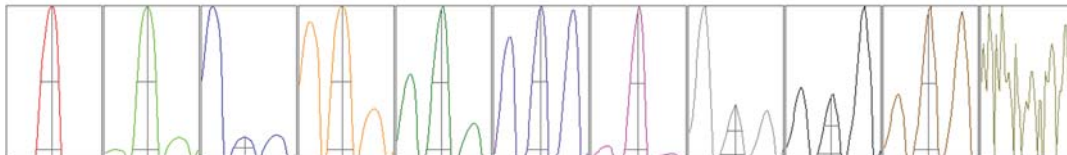
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	13312	13221	13154	13304	13280
24	2034877	2056300	2020027	2077743	2114369
25	277488	280198	286575	288714	289608
26	291234	293346	307935	306884	303415
59	103389	104699	99897	98842	102507
113	10578	10499	10615	10629	10579
115	139687	136912	141769	139166	138680
206	33715	33087	33055	33403	33436
207	30550	30105	30718	30346	30404
208	71856	71029	71733	71426	71274

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	24268.62	8.95	8.90 - 9.10	
24	3624990.19	23.90	23.90 - 24.10	
25	468767.05	24.90	24.90 - 25.10	
26	521371.50	25.90	25.90 - 26.10	
59	205186.02	58.95	58.90 - 59.10	
113	23255.30	113.00	112.90 - 113.10	
115	308684.12	115.00	114.90 - 115.10	
206	73273.87	206.00	205.90 - 206.10	
207	64478.78	206.95	206.90 - 207.10	
208	153913.28	207.95	207.90 - 208.10	
220			-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.58	0.780	0.900	
24	0.61	0.818	0.900	
25	0.64	0.796	0.900	
26	0.62	0.828	0.900	
59	0.51	0.762	0.900	
113	0.47	0.682	0.900	
115	0.46	0.716	0.900	
206	0.46	0.771	0.900	
207	0.46	0.737	0.900	
208	0.47	0.765	0.900	
220				

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode --- Nebulizer Gas 0.78 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	9.9 V	Deflect	15.2 V
Extract 2	-155.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-80 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	200 V		

QP Parameters

Mass Gain	123	Axis Gain	1.0007	QP Bias	-3.0 V
Mass Offset	125	Axis Offset	-0.09		

Hardware Settings

Torch

Torch H	-0.3 mm	Torch V	0.8 mm
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EM

Discriminator	3.1 mV	Analog HV	2223 V	Pulse HV	1439 V
---------------	--------	-----------	--------	----------	--------

[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		34021	340210.49			0.514	
89		57499	574990.87			0.422	
205		63718	637184.82			0.398	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	34049	33985	34216	34107	33748
89	57623	57696	57673	57373	57131
205	63817	63627	64115	63526	63507

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.78 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	10.8 V	Deflect	3.8 V
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US EPA Tune Check Report

Extract 2	-180.0 V	Cell Entrance	-40 V	Plate Bias	-60 V
Omega Bias	-95 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	200 V		

QP Parameters

Mass Gain	123	Axis Gain	1.0007	QP Bias	-13.0 V
Mass Offset	125	Axis Offset	-0.09		

Hardware Settings

Torch

Torch H	-0.3 mm	Torch V	0.8 mm
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EM

Discriminator	3.1 mV	Analog HV	2223 V	Pulse HV	1439 V
---------------	--------	-----------	--------	----------	--------