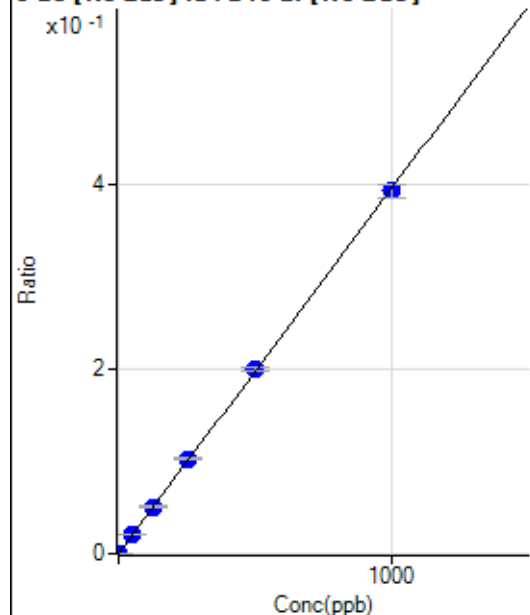


Batch Folder: D:\Agilent\ICPMH\1\DATA\P8102620MS1.b\
Analysis File: P8102620MS1.batch.bin
DA Date-Time: 2020-10-26 18:04:07
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	003CALB.d	S00	2020-10-26 17:37:28
2	004CALS.d	S01	2020-10-26 17:40:39
3	005CALS.d	S02	2020-10-26 17:43:48
4	006CALS.d	S03	2020-10-26 17:46:59
5	007CALS.d	S04	2020-10-26 17:50:07
6	008CALS.d	S05	2020-10-26 17:53:13
7	009CALS.d	S06	2020-10-26 17:56:45
8	010CALS.d	S07	2020-10-26 17:59:46
9	011CALS.d	S08	2020-10-26 18:02:45

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	86.65	0.0001	P	11.0
2	☐	0.100	0.078	140.64	0.0001	P	7.4
3	☐	1.000	0.967	715.21	0.0004	P	7.7
4	☐	50.000	52.111	34792.54	0.0206	P	2.3
5	☐	125.000	128.729	86617.32	0.0508	P	1.5
6	☐	250.000	259.143	174166.00	0.1023	P	1.5
7	☐	500.000	506.542	340792.82	0.1999	P	2.0
8	☐	1000.000	993.872	673684.22	0.3922	P	3.8
9	☐			381.93	0.0002	P	5.5

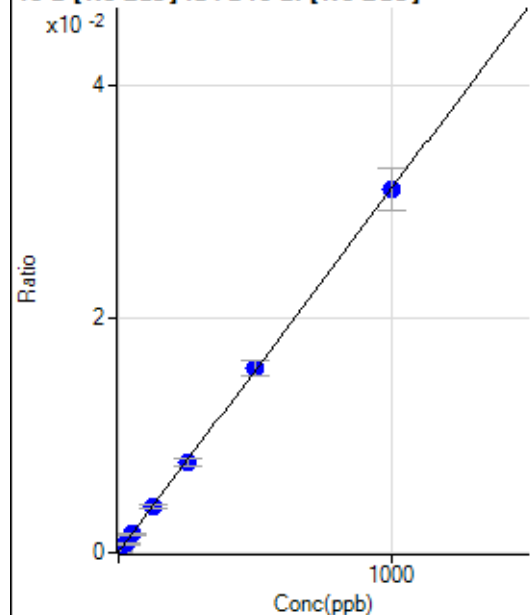
$$y = 3.9452\text{E-}004 * x + 5.1447\text{E-}005$$

$$R = 0.9999$$

$$DL = 0.04313$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	98.65	0.0001	P	4.5
2	☐	2.500	2.157	214.63	0.0001	P	2.7
3	☐	25.000	22.103	1231.81	0.0007	P	6.3
4	☐	50.000	49.971	2718.39	0.0016	P	9.8
5	☐	125.000	124.111	6672.21	0.0039	P	10.9
6	☐	250.000	248.778	13258.04	0.0078	P	8.1
7	☐	500.000	507.431	26993.42	0.0158	P	8.7
8	☐	1000.000	996.776	53245.43	0.0310	P	11.6
9	☐			9011.02	0.0053	P	10.4

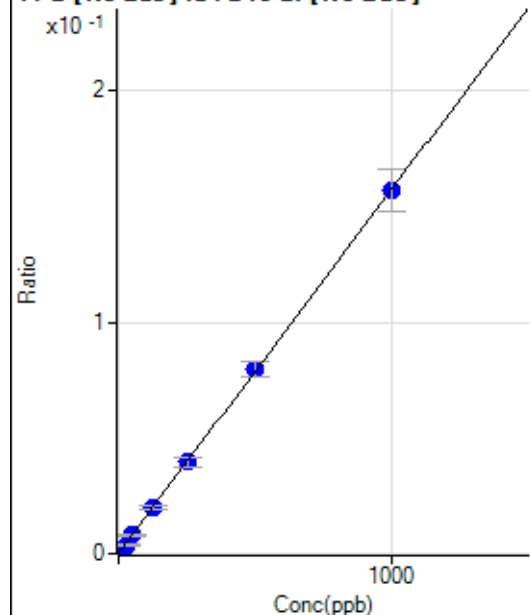
$$y = 3.1081\text{E-}005 * x + 5.8595\text{E-}005$$

$$R = 1.0000$$

$$DL = 0.2563$$

Weight: <None>

Min Conc: 0

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

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	De _t	RSD
1	☐	0.000	0.000	467.25	0.0003	P	9.8
2	☐	2.500	1.831	965.18	0.0006	P	7.4
3	☐	25.000	22.026	6170.76	0.0037	P	7.9
4	☐	50.000	50.648	13873.82	0.0082	P	11.5
5	☐	125.000	124.329	33728.68	0.0198	P	10.2
6	☐	250.000	249.602	67150.44	0.0395	P	9.2
7	☐	500.000	507.416	136278.68	0.0799	P	7.9
8	☐	1000.000	996.519	268868.77	0.1567	P	11.5
9	☐			44868.13	0.0265	P	9.1

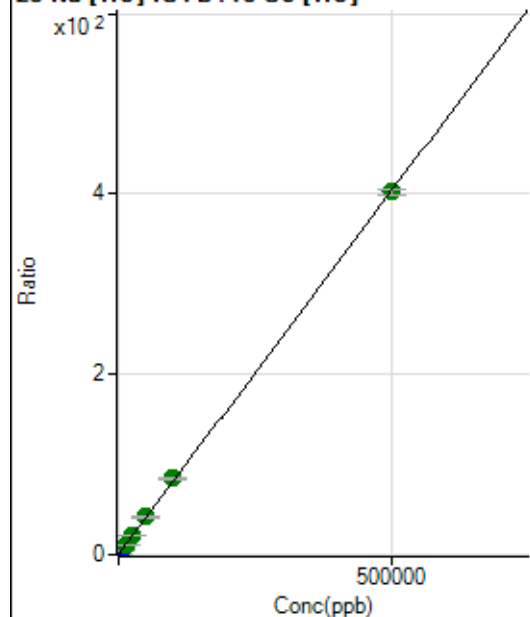
$$y = 1.5699\text{E-}004 * x + 2.7755\text{E-}004$$

$$R = 1.0000$$

$$DL = 0.5185$$

Weight: <None>

Min Conc: 0

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

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	De _t	RSD
1	☐	0.000	0.000	41250.69	0.2778	P	3.1
2	☐	50.000	50.531	46680.76	0.3185	P	0.5
3	☐	500.000	509.794	102027.61	0.6886	P	2.7
4	☐	5000.000	5406.435	689903.27	4.6345	P	1.1
5	☐	12500.000	13341.290	1651660.29	11.0286	A	0.2
6	☐	25000.000	26468.608	3236176.51	21.6071	A	0.6
7	☐	50000.000	51775.268	6445399.76	42.0000	A	2.2
8	☐	100000.00	104664.19	12797045.42	84.6196	A	3.9
9	☐	500000.00	498791.09	59216291.60	402.2200	A	1.9

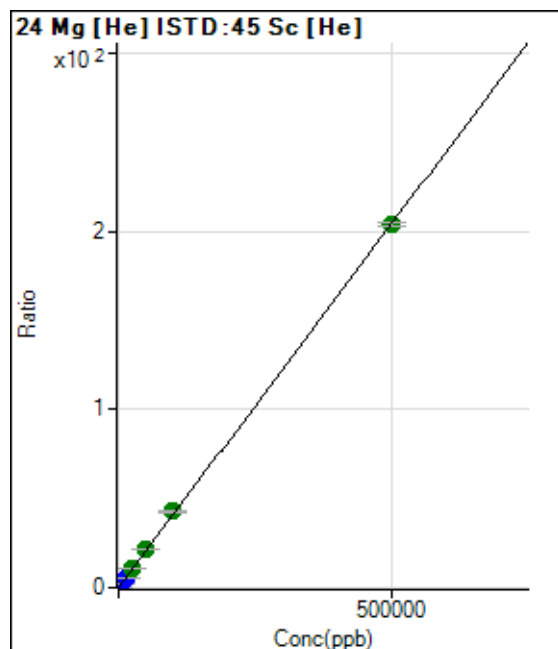
$$y = 8.0583\text{E-}004 * x + 0.2778$$

$$R = 1.0000$$

$$DL = 31.98$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	627.81	0.0042	P	0.6
2	☐	50.000	48.351	3511.62	0.0240	P	13.6
3	☐	500.000	504.539	31164.49	0.2103	P	1.2
4	☐	5000.000	5449.421	331941.30	2.2298	P	0.7
5	☐	12500.000	13551.665	829450.64	5.5388	P	1.0
6	☐	25000.000	26809.465	1640552.33	10.9534	A	0.5
7	☐	50000.000	52501.698	3291624.81	21.4463	A	1.5
8	☐	100000.00	104606.48	6462223.93	42.7262	A	3.4
9	☐	500000.00	498707.26	29987606.22	203.6798	A	1.1

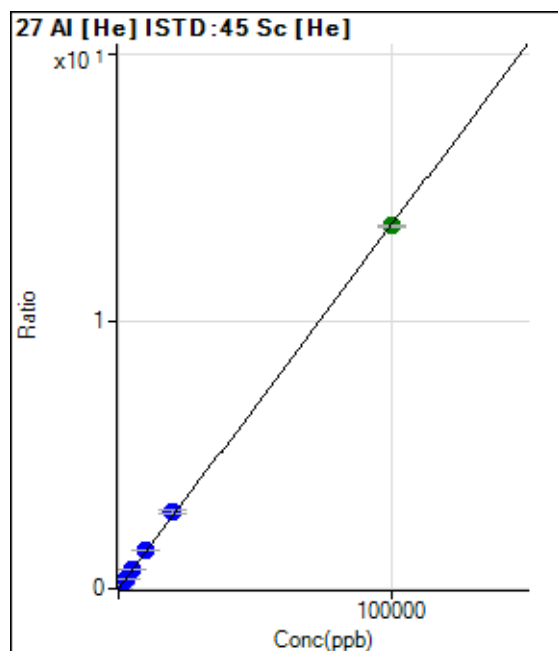
$$y = 4.0841\text{E-}004 * x + 0.0042$$

$$R = 0.9999$$

$$DL = 0.1772$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	454.12	0.0031	P	7.4
2	☐	50.000	2.203	492.45	0.0034	P	3.2
3	☐	20.000	21.471	887.42	0.0060	P	4.7
4	☐	1000.000	1070.724	22174.45	0.1490	P	1.3
5	☐	2500.000	2666.641	54874.37	0.3664	P	0.5
6	☐	5000.000	5340.985	109460.35	0.7308	P	0.6
7	☐	10000.000	10433.912	218650.40	1.4248	P	2.4
8	☐	20000.000	21086.920	435018.47	2.8764	P	3.8
9	☐	100000.00	99717.326	2000998.78	13.5908	A	0.8

$$y = 1.3626\text{E-}004 * x + 0.0031$$

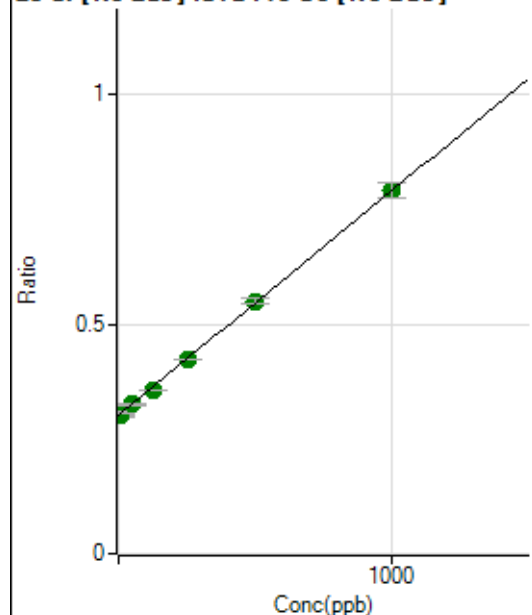
$$R = 0.9999$$

$$DL = 4.968$$

Weight: <None>

Min Conc: 0

28 Si [No Gas] ISTD :45 Sc [No Gas]



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	983400.43	0.3021	A	1.9
2	☐	10.000	-5.217	986592.56	0.2996	A	1.8
3	☐	10.000	9.797	1004050.19	0.3069	A	1.1
4	☐	50.000	47.471	1088211.95	0.3253	A	1.0
5	☐	125.000	110.081	1189045.34	0.3558	A	0.5
6	☐	250.000	247.731	1416657.69	0.4230	A	0.5
7	☐	500.000	507.688	1869348.41	0.5499	A	2.0
8	☐	1000.000	998.869	2701475.12	0.7896	A	4.1
9	☐			1080538.96	0.3219	A	1.5

$$y = 4.8801\text{E-}004 * x + 0.3021$$

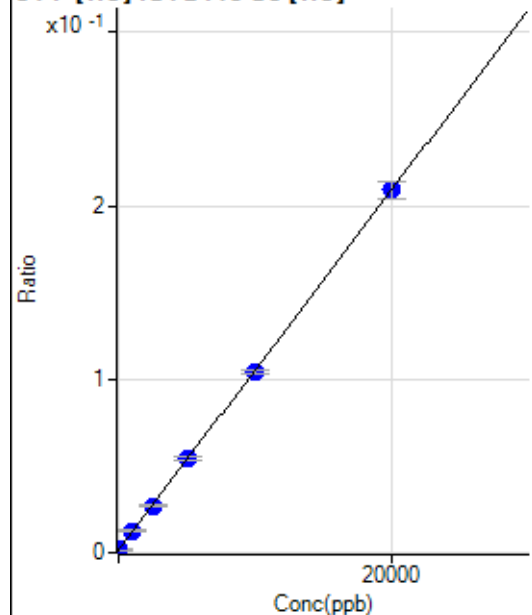
$$R = 0.9998$$

$$DL = 34.75$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	31.304	269.46	0.0018	P	25.6
2	☐	0.000	-27.758	175.00	0.0012	P	27.9
3	☐	0.000	-3.546	213.90	0.0014	P	20.1
4	☐	1000.000	1062.209	1861.28	0.0125	P	6.8
5	☐	2500.000	2456.699	4039.55	0.0270	P	2.7
6	☐	5000.000	5126.888	8188.62	0.0547	P	4.0
7	☐	10000.000	9927.058	16034.26	0.1045	P	2.3
8	☐	20000.000	20007.051	31612.73	0.2091	P	4.5
9	☐			211.12	0.0014	P	9.2

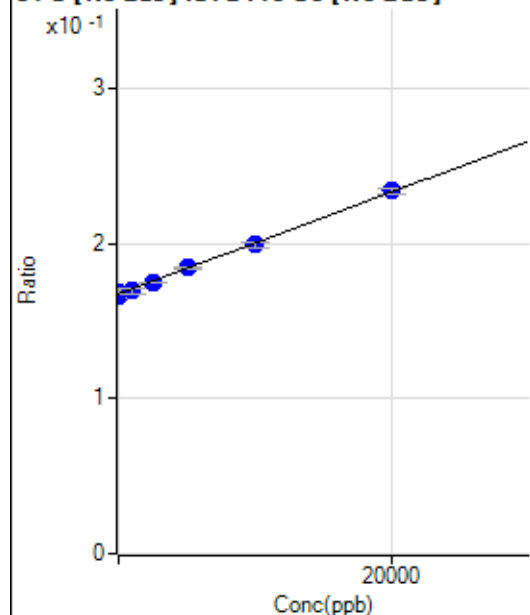
$$y = 1.0376\text{E-}005 * x + 0.0015$$

$$R = 1.0000$$

$$DL = 104.5$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	-85.450	544266.06	0.1672	P	2.3
2	☐	0.000	-406.074	547247.70	0.1662	P	1.8
3	☐	0.000	491.524	553260.07	0.1691	P	1.2
4	☐	1000.000	657.198	567439.10	0.1697	P	2.2
5	☐	2500.000	2279.953	584703.76	0.1750	P	0.3
6	☐	5000.000	5136.492	617368.51	0.1843	P	0.9
7	☐	10000.000	9622.770	676729.01	0.1991	P	1.9
8	☐	20000.000	20199.138	799987.14	0.2338	P	1.4
9	☐			536713.32	0.1599	P	1.8

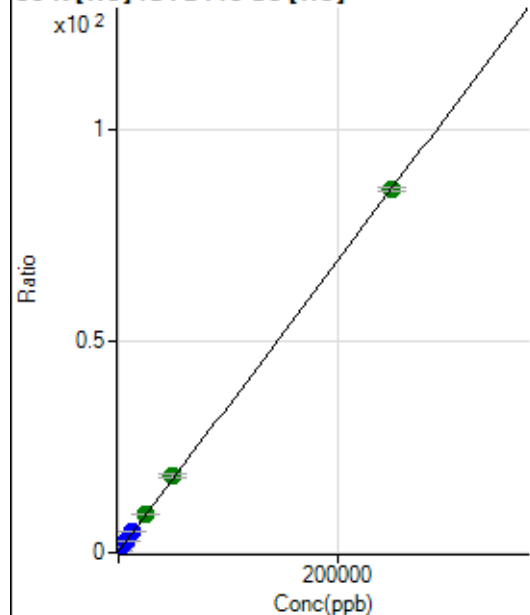
$$y = 3.2809\text{E-}006 * x + 0.1675$$

$$R = 0.9990$$

$$DL = 2691$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	36327.02	0.2447	P	3.9
2	☐	50.000	67.500	39245.65	0.2678	P	2.9
3	☐	500.000	522.116	62801.16	0.4238	P	0.5
4	☐	2500.000	2707.492	174681.29	1.1733	P	1.1
5	☐	6250.000	6769.843	384358.22	2.5667	P	1.6
6	☐	12500.000	13682.864	739587.67	4.9379	P	0.7
7	☐	25000.000	26278.746	1421106.91	9.2583	A	0.6
8	☐	50000.000	52443.690	2757269.62	18.2328	A	4.0
9	☐	250000.00	249309.12	12626158.27	85.7577	A	0.9

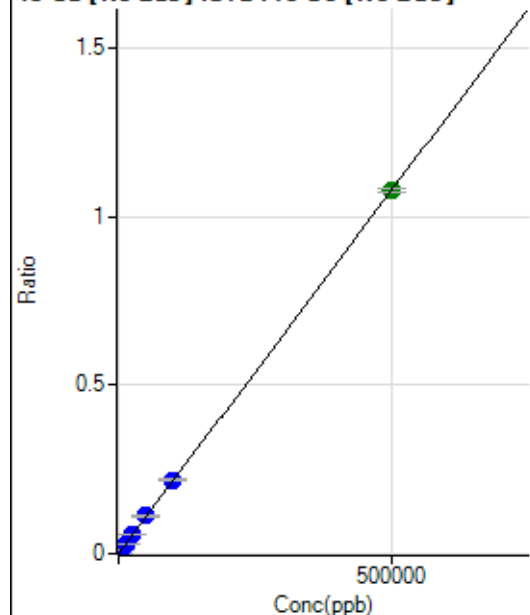
$$y = 3.4300\text{E-}004 * x + 0.2447$$

$$R = 0.9999$$

$$DL = 82.73$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	376.63	0.0001	P	1.2
2	☐	50.000	49.274	730.35	0.0002	P	4.0
3	☐	500.000	470.268	3691.69	0.0011	P	0.7
4	☐	5000.000	5217.126	37965.41	0.0113	P	1.6
5	☐	12500.000	13160.578	95083.54	0.0285	P	0.4
6	☐	25000.000	26099.220	188601.78	0.0563	P	0.5
7	☐	50000.000	51901.738	380327.85	0.1119	P	1.8
8	☐	100000.00	101672.55	749567.77	0.2190	P	2.2
9	☐	500000.00	499401.69	3610903.41	1.0755	A	1.2

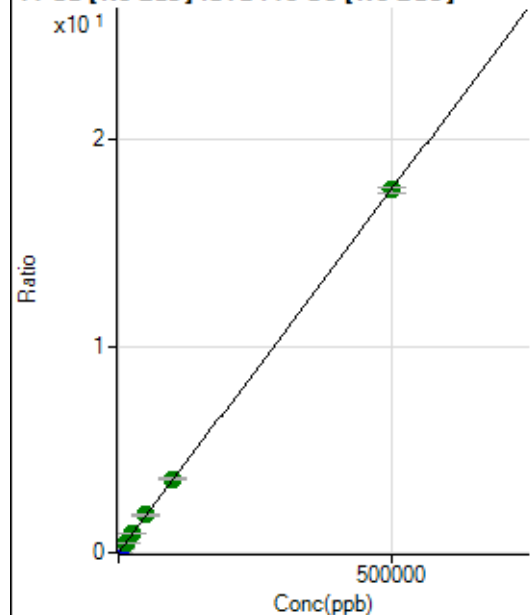
$$y = 2.1533\text{E-}006 * x + 1.1566\text{E-}004$$

$$R = 1.0000$$

$$DL = 1.895$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	28087.58	0.0086	P	2.3
2	☐	50.000	46.081	33761.05	0.0103	P	2.1
3	☐	500.000	488.923	84536.32	0.0258	P	0.7
4	☐	5000.000	5290.541	651706.48	0.1948	P	2.3
5	☐	12500.000	13147.287	1575225.89	0.4714	A	0.8
6	☐	25000.000	26080.174	3103287.43	0.9266	A	0.6
7	☐	50000.000	51516.908	6194366.29	1.8219	A	0.8
8	☐	100000.00	101332.82	12234099.20	3.5754	A	3.0
9	☐	500000.00	499508.66	59056196.82	17.5905	A	1.3

$$y = 3.5198\text{E-}005 * x + 0.0086$$

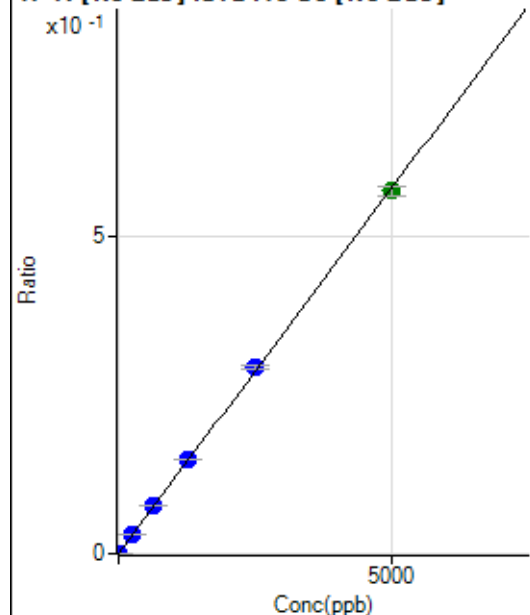
$$R = 1.0000$$

$$DL = 16.87$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	372.24	0.0001	P	13.8
2	☐	0.500	0.450	547.25	0.0002	P	10.8
3	☐	5.000	4.804	2186.34	0.0007	P	8.3
4	☐	250.000	256.208	99217.95	0.0297	P	1.8
5	☐	625.000	649.310	250616.98	0.0750	P	0.3
6	☐	1250.000	1278.319	494128.22	0.1475	P	0.1
7	☐	2500.000	2546.025	998567.17	0.2937	P	2.0
8	☐	5000.000	4966.559	1960341.91	0.5729	A	2.9
9	☐			505.58	0.0002	P	3.7

$$y = 1.1533\text{E-}004 * x + 1.1410\text{E-}004$$

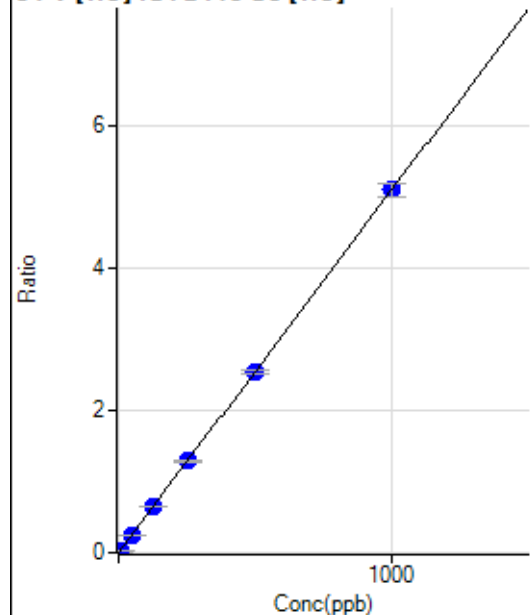
$$R = 0.9999$$

$$DL = 0.4097$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	24.44	0.0002	P	32.5
2	☐	0.500	0.425	342.23	0.0023	P	8.3
3	☐	5.000	4.707	3583.82	0.0242	P	3.4
4	☐	50.000	49.924	37962.48	0.2550	P	1.0
5	☐	125.000	125.962	96317.70	0.6432	P	0.8
6	☐	250.000	252.976	193434.23	1.2915	P	0.9
7	☐	500.000	496.288	388798.15	2.5335	P	2.2
8	☐	1000.000	1000.997	772802.10	5.1099	P	3.7
9	☐			160.00	0.0011	P	14.4

$$y = 0.0051 * x + 1.6380\text{E-}004$$

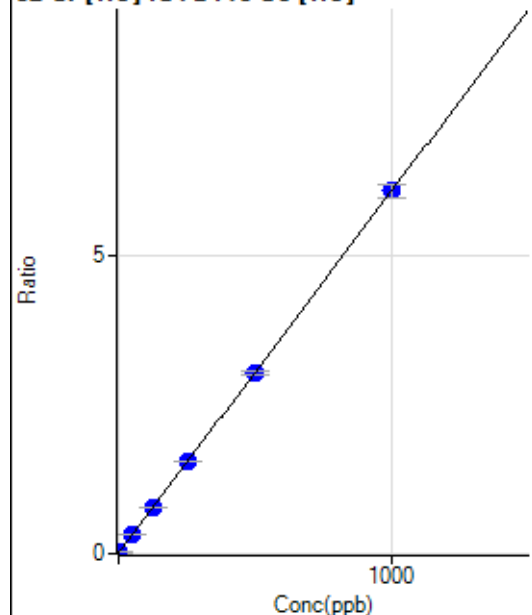
$$R = 1.0000$$

$$DL = 0.03132$$

Weight: <None>

Min Conc: 0

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	De _t	RSD
1	☐	0.000	0.000	1034.49	0.0070	P	6.2
2	☒	0.200					
3	☐	2.000	1.891	2730.28	0.0184	P	2.6
4	☐	50.000	50.887	46990.32	0.3157	P	1.7
5	☐	125.000	126.914	116337.11	0.7769	P	1.7
6	☐	250.000	254.655	232428.90	1.5518	P	0.4
7	☐	500.000	496.119	462957.55	3.0167	P	2.0
8	☐	1000.000	1000.494	918988.49	6.0765	P	3.7
9	☐			3860.56	0.0262	P	1.2

$$y = 0.0061 * x + 0.0070$$

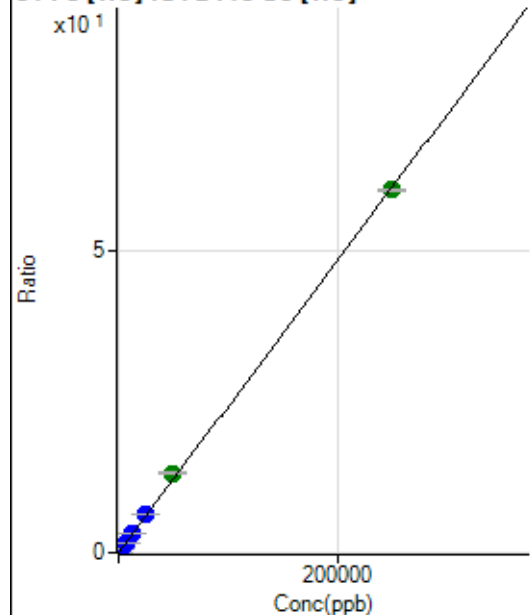
$$R = 1.0000$$

$$DL = 0.214$$

Weight: <None>

Min Conc: 0

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	De _t	RSD
1	☐	0.000	0.000	740.77	0.0050	P	7.3
2	☐	5.000	2.341	813.00	0.0056	P	9.9
3	☐	50.000	51.894	2591.02	0.0175	P	2.7
4	☐	2500.000	2686.420	97082.81	0.6521	P	0.5
5	☐	6250.000	6813.527	246553.12	1.6463	P	0.1
6	☐	12500.000	13694.322	494828.31	3.3039	P	0.8
7	☐	25000.000	26570.485	982991.70	6.4057	P	2.4
8	☐	50000.000	54418.328	1984353.81	13.1141	A	2.2
9	☐	250000.00	248883.61	8828587.70	59.9599	A	0.4

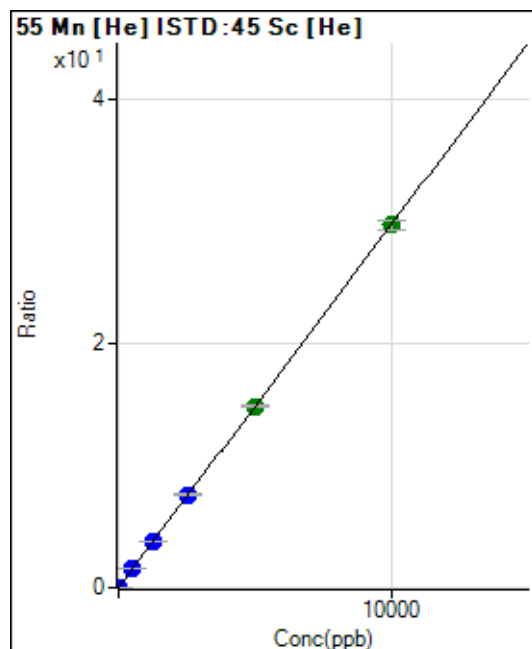
$$y = 2.4090E-004 * x + 0.0050$$

$$R = 0.9998$$

$$DL = 4.547$$

Weight: <None>

Min Conc: 0



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	De _t	RSD
1	☐	0.000	0.000	1765.69	0.0119	P	5.9
2	☒	0.100					
3	☐	1.000	0.817	2122.40	0.0143	P	6.6
4	☐	500.000	503.997	225313.96	1.5135	P	0.6
5	☐	1250.000	1261.503	564634.16	3.7705	P	1.0
6	☐	2500.000	2559.359	1143867.14	7.6373	P	0.7
7	☐	5000.000	4993.547	2285126.20	14.8899	A	1.8
8	☐	10000.000	9986.749	4502987.29	29.7668	A	2.7
9	☐			4773.06	0.0324	P	1.9

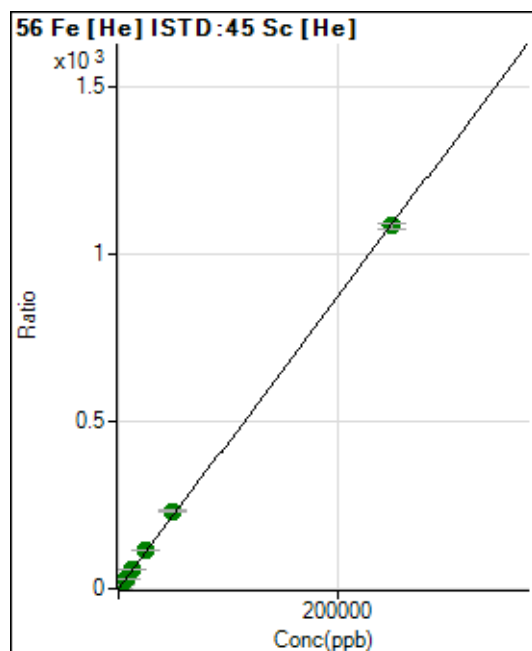
$$y = 0.0030 * x + 0.0119$$

$$R = 1.0000$$

$$DL = 0.7012$$

Weight: <None>

Min Conc: 0



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	De _t	RSD
1	☐	0.000	0.000	7503.95	0.0505	P	3.9
2	☐	5.000	5.365	10826.45	0.0739	P	1.1
3	☐	50.000	50.213	39844.71	0.2689	P	1.6
4	☐	2500.000	2680.986	1743016.82	11.7090	A	1.6
5	☐	6250.000	6657.202	4342809.91	28.9997	A	1.0
6	☐	12500.000	13366.540	8713097.94	58.1757	A	0.8
7	☐	25000.000	26059.930	17398597.96	113.3736	A	2.1
8	☐	50000.000	53086.369	34927481.33	230.8995	A	2.9
9	☐	250000.00	249221.41	159561286.9	1,083.803	A	1.8

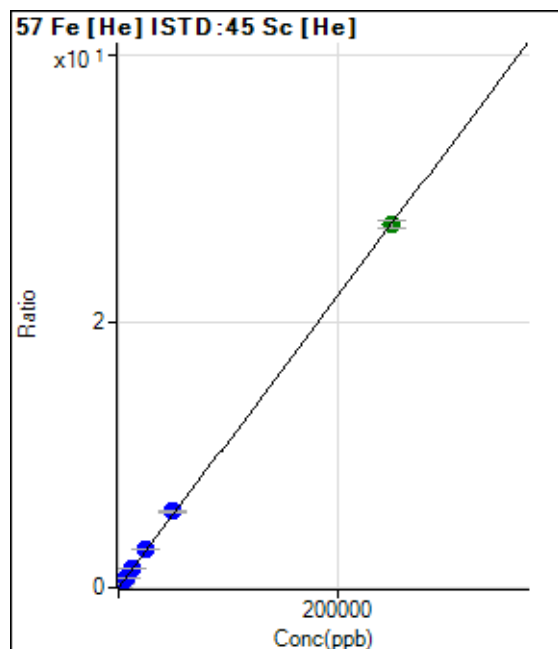
$$y = 0.0043 * x + 0.0505$$

$$R = 0.9999$$

$$DL = 1.363$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	248.15	0.0017	P	17.2
2	☐	5.000	4.466	316.68	0.0022	P	25.8
3	☐	50.000	52.336	1096.36	0.0074	P	3.7
4	☐	2500.000	2637.070	43198.83	0.2902	P	0.9
5	☐	6250.000	6620.890	108727.85	0.7260	P	0.7
6	☐	12500.000	13266.739	217644.26	1.4531	P	0.4
7	☐	25000.000	25977.697	436440.40	2.8438	P	1.6
8	☐	50000.000	52357.266	866615.62	5.7298	P	3.4
9	☐	250000.00	249381.79	4017031.31	27.2854	A	2.0

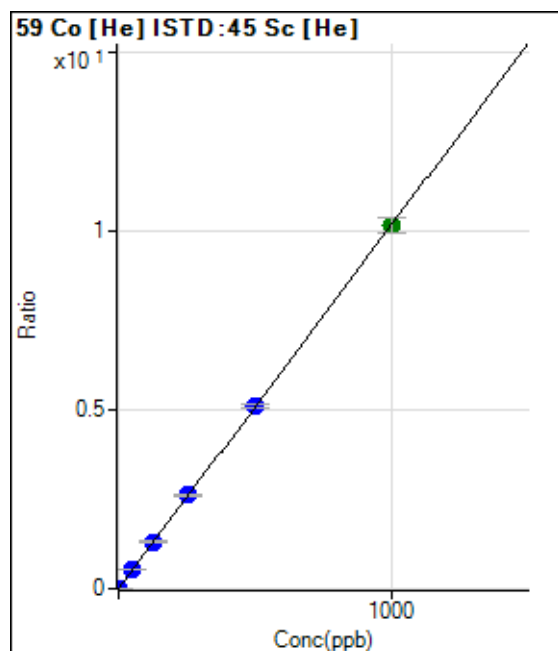
$$y = 1.0941\text{E-}004 * x + 0.0017$$

$$R = 0.9999$$

$$DL = 7.903$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	308.89	0.0021	P	10.9
2	☐	0.100	0.110	468.90	0.0032	P	6.3
3	☐	1.000	0.979	1782.35	0.0120	P	2.2
4	☐	50.000	50.732	77013.47	0.5173	P	1.6
5	☐	125.000	128.986	196510.41	1.3121	P	0.9
6	☐	250.000	256.979	391213.28	2.6121	P	1.0
7	☐	500.000	501.068	781278.81	5.0912	P	2.3
8	☐	1000.000	997.187	1531903.56	10.1300	A	4.2
9	☐			2732.51	0.0186	P	3.6

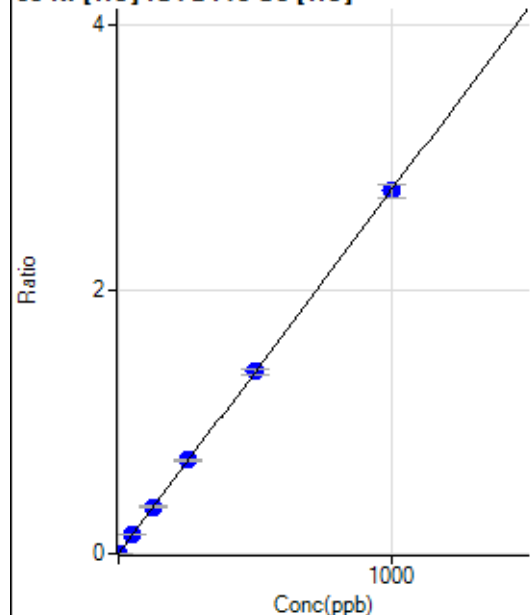
$$y = 0.0102 * x + 0.0021$$

$$R = 1.0000$$

$$DL = 0.06735$$

Weight: <None>

Min Conc: 0

60 Ni [He] ISTD:45 Sc [He]

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	De _t	RSD
1	☐	0.000	0.000	230.00	0.0015	P	7.7
2	☒	0.100					
3	☐	1.000	0.934	611.13	0.0041	P	12.5
4	☐	50.000	51.361	21283.80	0.1430	P	1.2
5	☐	125.000	128.707	53302.72	0.3559	P	1.5
6	☐	250.000	257.157	106283.27	0.7096	P	1.0
7	☐	500.000	499.683	211382.40	1.3774	P	2.4
8	☐	1000.000	997.838	415729.62	2.7491	P	4.0
9	☐			1314.52	0.0089	P	5.3

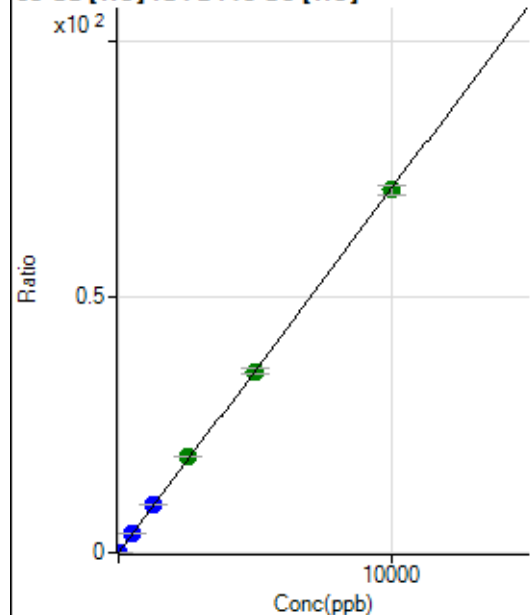
$$y = 0.0028 * x + 0.0015$$

$$R = 1.0000$$

$$DL = 0.13$$

Weight: <None>

Min Conc: 0

63 Cu [He] ISTD:45 Sc [He]

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	De _t	RSD
1	☐	0.000	0.000	714.47	0.0048	P	5.9
2	☐	0.200	0.191	905.59	0.0062	P	2.1
3	☐	2.000	2.136	2970.34	0.0200	P	2.2
4	☐	500.000	523.106	555968.87	3.7347	P	0.9
5	☐	1250.000	1313.767	1403596.32	9.3724	P	0.2
6	☐	2500.000	2629.364	2808641.73	18.7531	A	1.2
7	☐	5000.000	4987.325	5457917.76	35.5661	A	2.3
8	☐	10000.000	9964.870	10749379.15	71.0577	A	2.7
9	☐			6161.39	0.0419	P	3.5

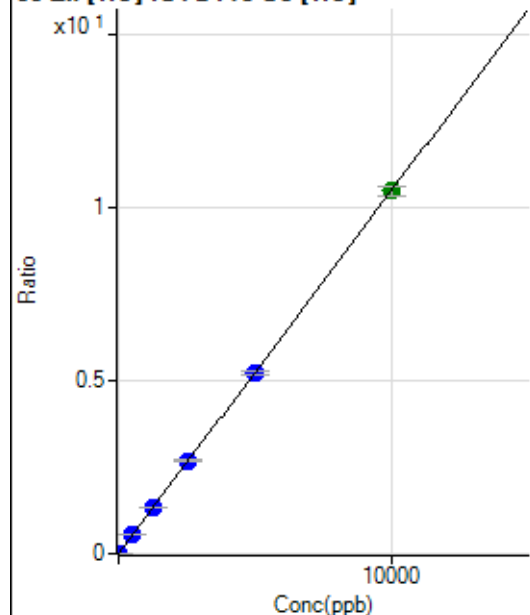
$$y = 0.0071 * x + 0.0048$$

$$R = 0.9999$$

$$DL = 0.1195$$

Weight: <None>

Min Conc: 0

66 Zn [He] ISTD:45 Sc [He]

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	De _t	RSD
1	☐	0.000	0.000	132.22	0.0009	P	27.4
2	☒	0.200					
3	☐	2.000	2.221	476.68	0.0032	P	13.7
4	☐	500.000	511.664	80044.13	0.5377	P	0.4
5	☐	1250.000	1282.803	201676.44	1.3467	P	0.6
6	☐	2500.000	2568.316	403691.55	2.6954	P	0.5
7	☐	5000.000	4969.562	800215.71	5.2145	P	2.3
8	☐	10000.000	9993.456	1586176.24	10.4852	A	2.7
9	☐			4153.99	0.0282	P	3.9

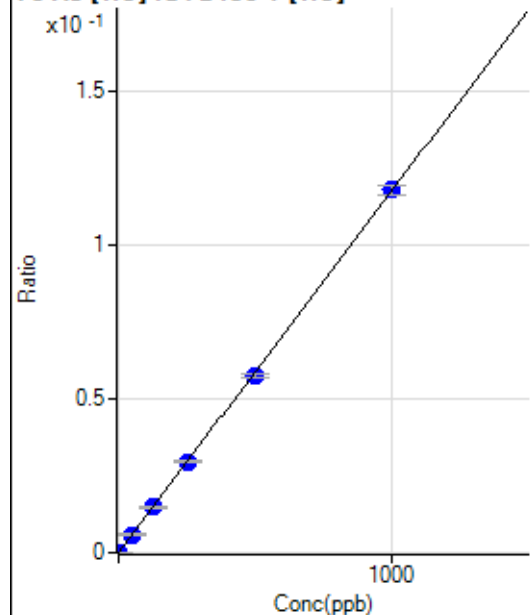
$$y = 0.0010 * x + 8.8931E-004$$

$$R = 1.0000$$

$$DL = 0.6977$$

Weight: <None>

Min Conc: 0

75 As [He] ISTD:89 Y [He]

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	De _t	RSD
1	☐	0.000	0.000	11.67	0.0000	P	21.7
2	☐	0.100	0.102	23.33	0.0000	P	10.7
3	☐	1.000	1.059	135.35	0.0001	P	11.4
4	☐	50.000	50.230	5917.17	0.0059	P	2.2
5	☐	125.000	125.778	14827.92	0.0148	P	2.1
6	☐	250.000	252.227	29871.42	0.0296	P	0.7
7	☐	500.000	491.671	59482.23	0.0578	P	2.3
8	☐	1000.000	1003.499	119373.07	0.1179	P	2.8
9	☐			57.01	0.0001	P	17.8

$$y = 1.1744E-004 * x + 1.1718E-005$$

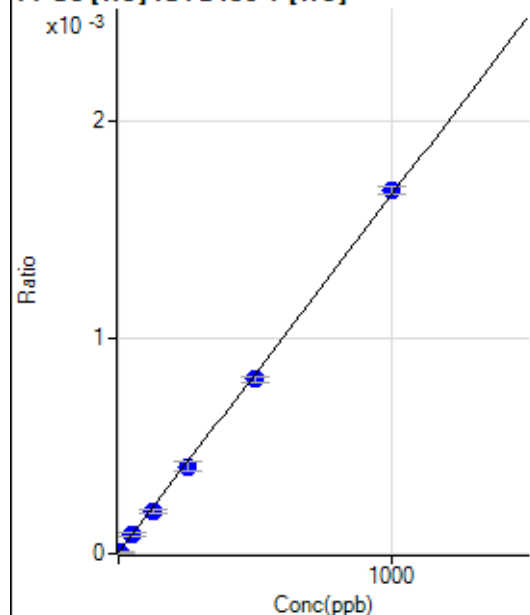
$$R = 0.9999$$

$$DL = 0.06484$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	5.55	0.0000	P	124.9
2	☐	0.500	-1.281	3.33	0.0000	P	100.1
3	☐	5.000	-0.641	4.44	0.0000	P	114.3
4	☐	50.000	50.379	88.89	0.0001	P	21.8
5	☐	125.000	115.040	196.67	0.0002	P	7.4
6	☐	250.000	241.025	407.79	0.0004	P	9.8
7	☐	500.000	483.852	831.14	0.0008	P	4.0
8	☐	1000.000	1011.573	1703.46	0.0017	P	2.3
9	☐			5.55	0.0000	P	69.3

$$y = 1.6561\text{E-}006 * x + 5.5110\text{E-}006$$

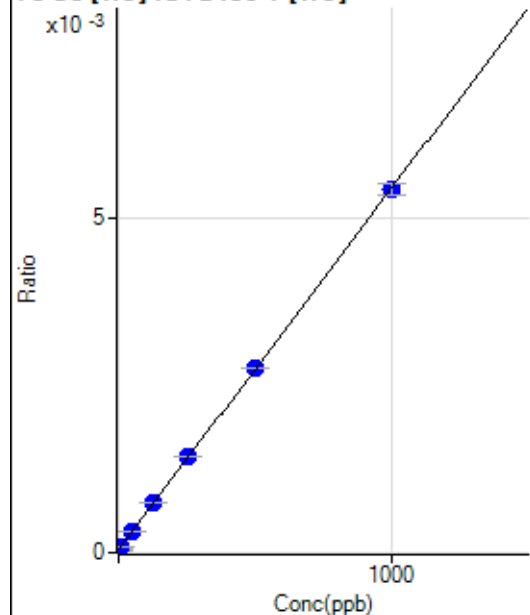
$$R = 0.9998$$

$$DL = 12.47$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	44.00	0.0000	P	19.2
2	☐	0.500	4.635	68.34	0.0001	P	4.9
3	☐	5.000	8.036	87.34	0.0001	P	11.1
4	☐	50.000	51.519	323.37	0.0003	P	4.4
5	☐	125.000	128.218	740.43	0.0007	P	0.4
6	☐	250.000	257.811	1451.23	0.0014	P	1.8
7	☐	500.000	502.953	2849.58	0.0028	P	0.3
8	☐	1000.000	996.075	5504.64	0.0054	P	3.3
9	☐			51.68	0.0001	P	4.0

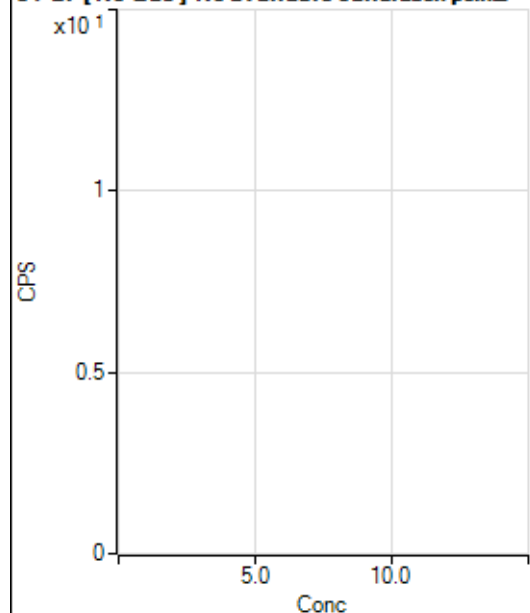
$$y = 5.4119\text{E-}006 * x + 4.4275\text{E-}005$$

$$R = 1.0000$$

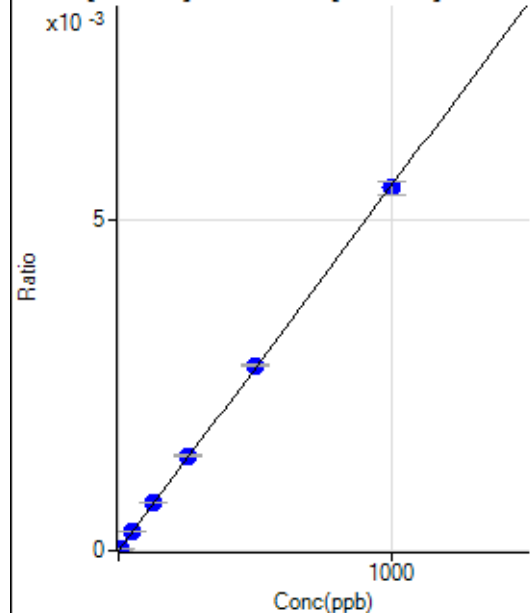
$$DL = 4.701$$

Weight: <None>

Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			2659.66		P	0.9
2	☐			2516.17		P	10.1
3	☐			2696.38		P	7.7
4	☐			2506.16		P	8.8
5	☐			2642.99		P	12.0
6	☐			2609.63		P	5.3
7	☐			2619.62		P	2.7
8	☐			2626.31		P	9.1
9	☐			2733.10		P	1.9

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	-19.31	0.0000	P	-322.4
2	☐	0.500	0.489	0.45	0.0000	P	-30892.
3	☐	5.000	4.465	166.63	0.0000	P	40.7
4	☐	50.000	51.766	2161.84	0.0003	P	3.8
5	☐	125.000	130.860	5534.77	0.0007	P	0.8
6	☐	250.000	258.778	10944.55	0.0014	P	1.6
7	☐	500.000	506.304	21730.03	0.0028	P	0.8
8	☐	1000.000	993.835	43215.68	0.0055	P	3.4
9	☐			1.11	0.0000	P	3136.5

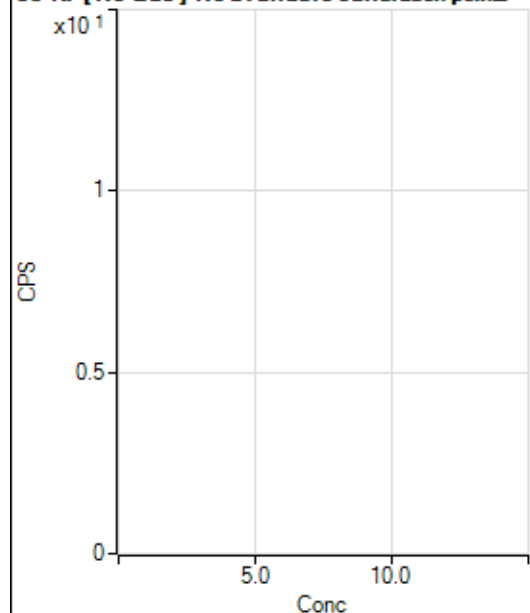
$$y = 5.5380E-006 * x - 2.7458E-006$$

$$R = 0.9999$$

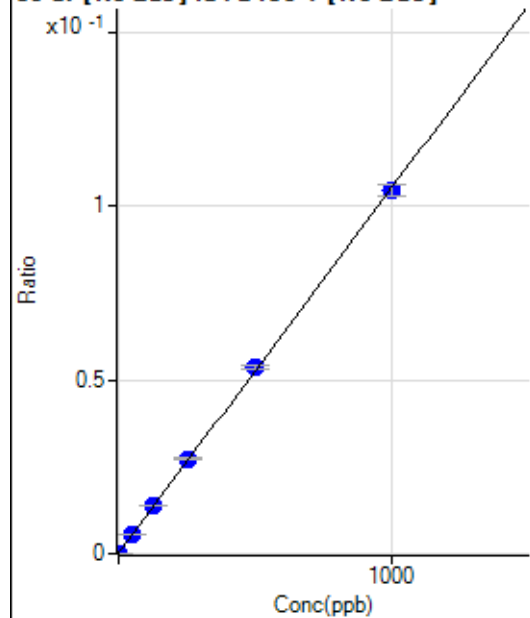
$$DL = 4.795$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			452.24		P	11.0
2	☐			418.90		P	17.5
3	☐			447.79		P	7.9
4	☐			432.23		P	16.9
5	☐			453.35		P	3.4
6	☐			382.23		P	2.0
7	☐			432.24		P	8.8
8	☐			464.46		P	7.9
9	☐			421.12		P	5.0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	652.81	0.0001	P	3.4
2	☐	0.100	0.111	750.04	0.0001	P	4.4
3	☐	1.000	0.945	1419.56	0.0002	P	9.6
4	☐	50.000	51.794	42083.70	0.0055	P	3.5
5	☐	125.000	129.641	105024.10	0.0137	P	1.3
6	☐	250.000	258.528	208385.46	0.0272	P	2.0
7	☐	500.000	509.250	415477.04	0.0536	P	1.3
8	☐	1000.000	992.573	819467.01	0.1043	P	3.3
9	☐			4942.68	0.0006	P	2.4

$$y = 1.0500\text{E-}004 * x + 8.7859\text{E-}005$$

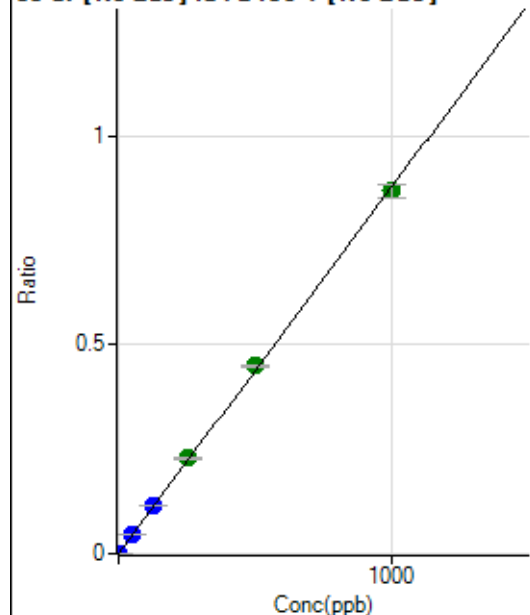
$$R = 0.9999$$

$$DL = 0.08614$$

Weight: <None>

Min Conc: 0

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	De _t	RSD
1	☐	0.000	0.000	319.46	0.0000	P	23.0
2	☐	0.100	0.103	1002.84	0.0001	P	5.7
3	☐	1.000	0.952	6654.51	0.0009	P	1.7
4	☐	50.000	52.321	349619.77	0.0459	P	1.4
5	☐	125.000	132.104	887845.48	0.1158	P	1.4
6	☐	250.000	260.488	1747205.59	0.2283	A	1.0
7	☐	500.000	512.530	3484922.30	0.4492	A	1.2
8	☐	1000.000	990.109	6817283.22	0.8678	A	3.5
9	☐			38373.02	0.0050	P	1.7

$$y = 8.7645\text{E-}004 * x + 4.3080\text{E-}005$$

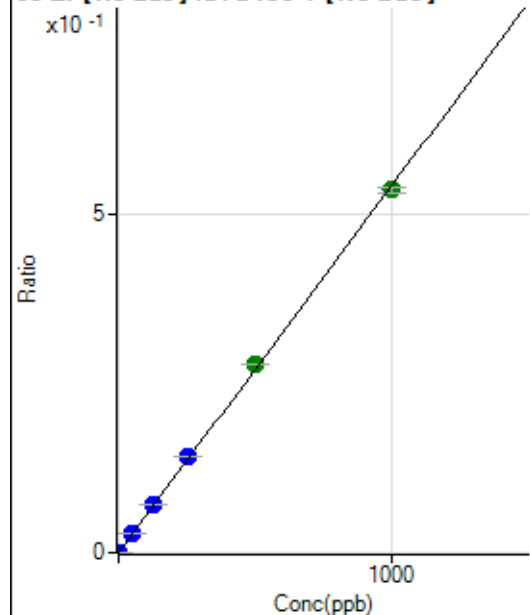
$$R = 0.9998$$

$$DL = 0.03398$$

Weight: <None>

Min Conc: 0

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	De _t	RSD
1	☐	0.000	0.000	333.35	0.0000	P	12.6
2	☐	0.100	0.095	725.04	0.0001	P	10.9
3	☐	1.000	0.962	4295.22	0.0006	P	4.3
4	☐	50.000	51.751	213943.88	0.0281	P	1.8
5	☐	125.000	130.262	541483.40	0.0706	P	0.5
6	☐	250.000	261.433	1084387.76	0.1417	P	0.9
7	☐	500.000	513.842	2160474.78	0.2785	A	0.7
8	☐	1000.000	989.476	4213781.39	0.5363	A	1.6
9	☐			1383.44	0.0002	P	1.2

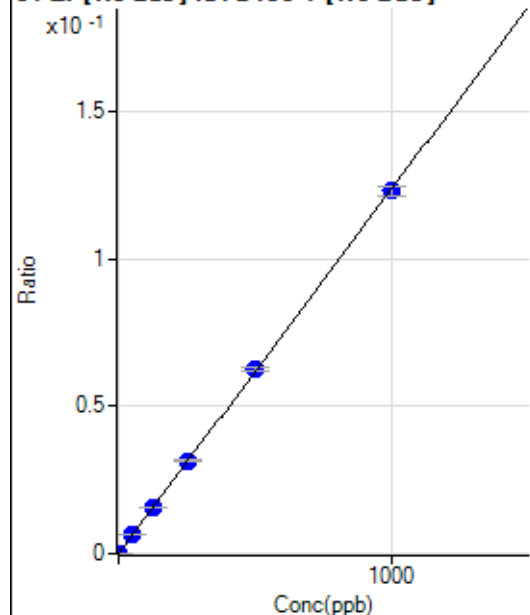
$$y = 5.4192\text{E-}004 * x + 4.4878\text{E-}005$$

$$R = 0.9998$$

$$DL = 0.03125$$

Weight: <None>

Min Conc: 0

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

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	De _t	RSD
1	☐	0.000	0.000	63.89	0.0000	P	28.0
2	☐	0.100	0.076	136.12	0.0000	P	22.7
3	☐	1.000	1.008	1011.18	0.0001	P	10.3
4	☐	50.000	51.109	48194.93	0.0063	P	3.5
5	☐	125.000	128.048	121459.39	0.0158	P	1.7
6	☐	250.000	255.461	241809.68	0.0316	P	0.7
7	☐	500.000	505.930	485402.63	0.0626	P	2.2
8	☐	1000.000	995.233	967139.67	0.1231	P	2.4
9	☐			286.12	0.0000	P	9.7

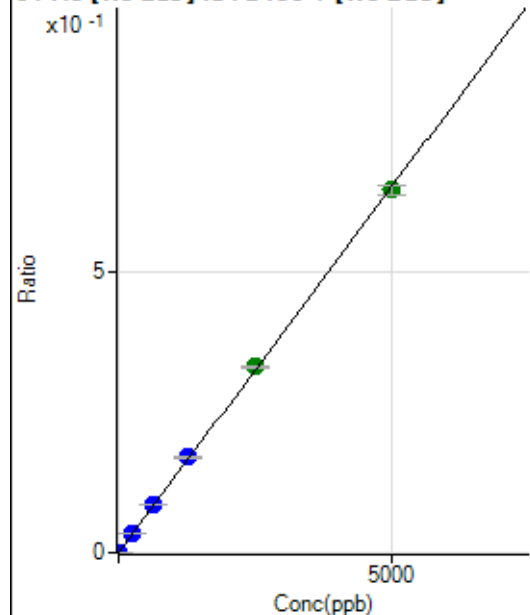
$$y = 1.2368\text{E-}004 * x + 8.6102\text{E-}006$$

$$R = 1.0000$$

$$DL = 0.05841$$

Weight: <None>

Min Conc: 0

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

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	De _t	RSD
1	☐	0.000	0.000	105.56	0.0000	P	40.2
2	☐	0.500	0.530	627.81	0.0001	P	6.0
3	☐	5.000	4.768	4825.97	0.0006	P	3.1
4	☐	250.000	258.130	256513.08	0.0337	P	3.0
5	☐	625.000	653.119	653169.80	0.0852	P	1.4
6	☐	1250.000	1302.466	1300086.16	0.1699	P	1.3
7	☐	2500.000	2540.916	2571104.44	0.3315	A	1.8
8	☐	5000.000	4962.504	5085718.52	0.6473	A	3.0
9	☐			1786.28	0.0002	P	10.9

$$y = 1.3045\text{E-}004 * x + 1.4095\text{E-}005$$

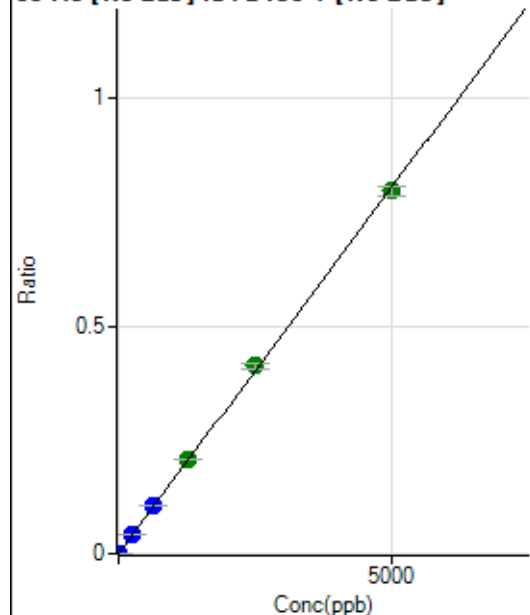
$$R = 0.9999$$

$$DL = 0.1302$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	30.55	0.0000	P	127.2
2	☐	0.500	0.490	625.03	0.0001	P	10.8
3	☐	5.000	4.684	5743.00	0.0008	P	2.6
4	☐	250.000	257.807	315508.65	0.0414	P	3.1
5	☐	625.000	651.931	803134.51	0.1048	P	1.1
6	☐	1250.000	1284.657	1579681.38	0.2065	A	0.5
7	☐	2500.000	2563.333	3195172.66	0.4119	A	2.5
8	☐	5000.000	4955.913	6257103.74	0.7964	A	2.8
9	☐			2216.90	0.0003	P	9.1

$$y = 1.6070\text{E-}004 * x + 4.1795\text{E-}006$$

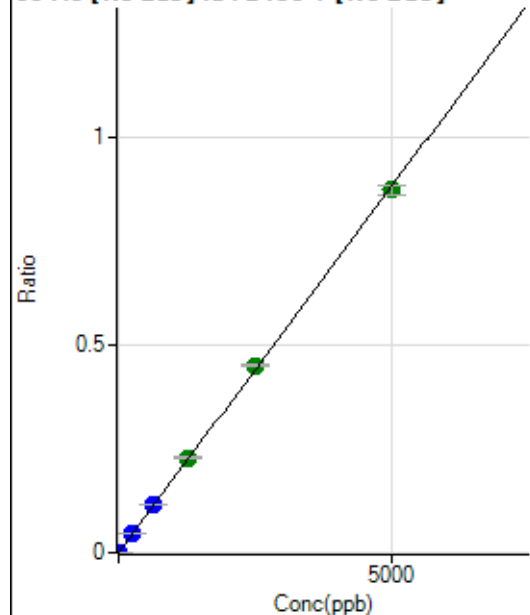
$$R = 0.9998$$

$$DL = 0.09926$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	133.34	0.0000	P	16.5
2	☐	0.500	0.484	777.82	0.0001	P	9.2
3	☐	5.000	4.765	6501.69	0.0009	P	2.3
4	☐	250.000	259.126	347564.57	0.0456	P	3.1
5	☐	625.000	652.197	880445.64	0.1149	P	1.2
6	☐	1250.000	1297.865	1748638.04	0.2285	A	1.0
7	☐	2500.000	2559.209	3495486.49	0.4506	A	1.9
8	☐	5000.000	4954.573	6854177.06	0.8724	A	2.6
9	☐			2725.34	0.0004	P	8.0

$$y = 1.7608\text{E-}004 * x + 1.7948\text{E-}005$$

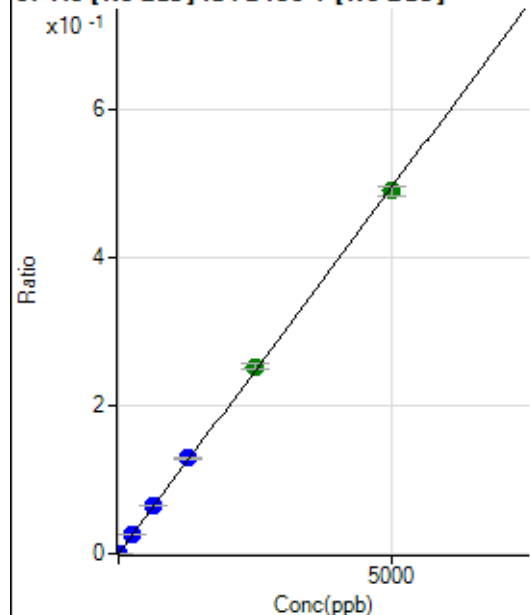
$$R = 0.9998$$

$$DL = 0.05053$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	22.22	0.0000	P	105.8
2	☐	0.500	0.466	369.46	0.0000	P	10.9
3	☐	5.000	4.802	3631.12	0.0005	P	1.7
4	☐	250.000	257.942	194589.64	0.0256	P	2.5
5	☐	625.000	648.277	492253.43	0.0642	P	0.1
6	☐	1250.000	1302.579	987162.62	0.1290	P	1.0
7	☐	2500.000	2558.249	1965320.20	0.2534	A	2.8
8	☐	5000.000	4954.424	3855573.39	0.4907	A	2.3
9	☐			1263.98	0.0002	P	8.4

$$y = 9.9047\text{E-}005 * x + 2.9295\text{E-}006$$

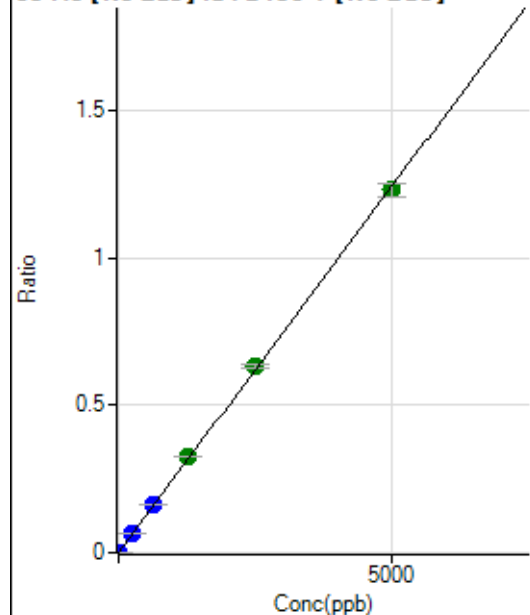
$$R = 0.9998$$

$$DL = 0.09384$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	27.78	0.0000	P	36.7
2	☐	0.500	0.506	975.06	0.0001	P	12.8
3	☐	5.000	4.944	9342.27	0.0012	P	5.0
4	☐	250.000	264.433	499951.89	0.0657	P	3.0
5	☐	625.000	662.191	1260274.26	0.1644	P	1.0
6	☐	1250.000	1313.271	2494913.10	0.3261	A	1.5
7	☐	2500.000	2541.898	4895163.17	0.6311	A	1.8
8	☐	5000.000	4957.862	9669672.44	1.2309	A	3.4
9	☐			3281.04	0.0004	P	6.6

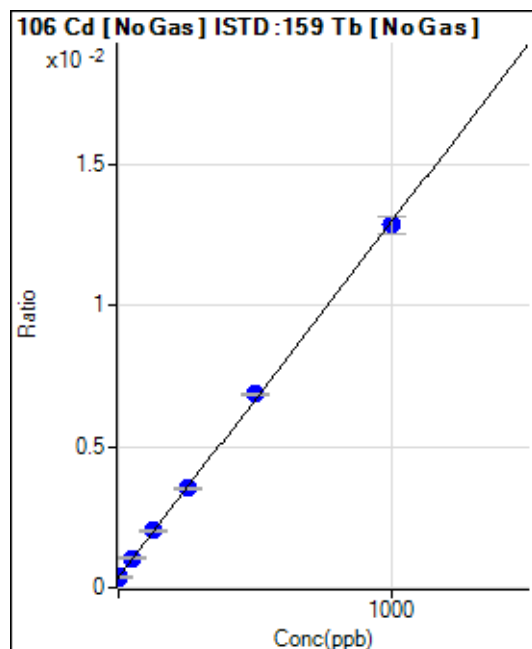
$$y = 2.4827\text{E-}004 * x + 3.7662\text{E-}006$$

$$R = 0.9998$$

$$DL = 0.01671$$

Weight: <None>

Min Conc: 0



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	De _t	RSD
1	☐	0.000	0.000	1727.93	0.0004	P	6.0
2	☐	0.100	1.573	1861.29	0.0004	P	6.7
3	☐	1.000	-0.068	1761.28	0.0004	P	4.9
4	☐	50.000	53.800	5012.16	0.0010	P	3.3
5	☐	125.000	130.330	9781.51	0.0020	P	4.2
6	☐	250.000	251.174	17319.59	0.0035	P	2.0
7	☐	500.000	514.872	33513.62	0.0068	P	0.5
8	☐	1000.000	991.415	63385.07	0.0128	P	4.9
9	☐			1589.03	0.0003	P	6.3

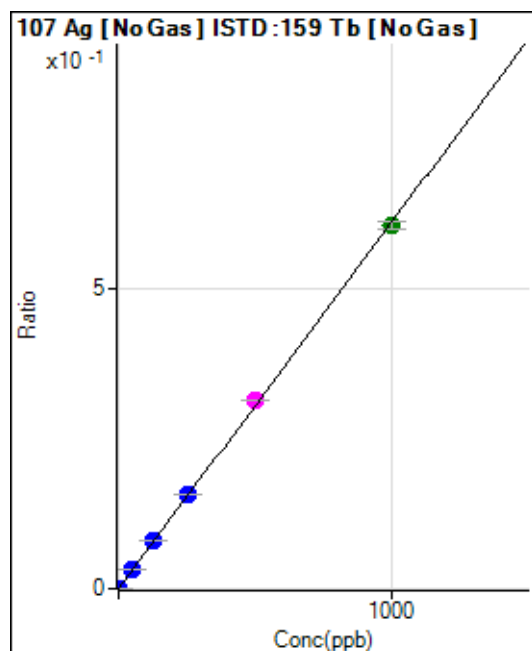
$$y = 1.2577\text{E-}005 * x + 3.7002\text{E-}004$$

$$R = 0.9998$$

$$DL = 5.327$$

Weight: <None>

Min Conc: 0



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	De _t	RSD
1	☐	0.000	0.000	47.22	0.0000	P	11.9
2	☐	0.100	0.079	280.56	0.0001	P	7.9
3	☐	1.000	0.947	2811.49	0.0006	P	12.2
4	☐	50.000	52.050	152522.87	0.0318	P	2.4
5	☐	125.000	130.963	389900.92	0.0801	P	1.4
6	☐	250.000	257.754	773800.79	0.1577	P	1.6
7	☐	500.000	513.222	1536897.23	0.3139	M	0.2
8	☐	1000.000	990.603	2992485.72	0.6059	A	2.1
9	☐			1472.35	0.0003	P	10.3

$$y = 6.1167\text{E-}004 * x + 1.0120\text{E-}005$$

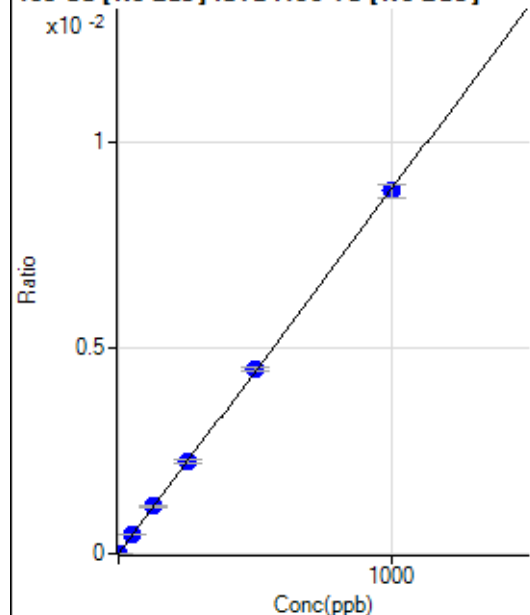
$$R = 0.9998$$

$$DL = 0.005884$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	6.94	0.0000	P	91.4
2	☐	0.100	0.159	13.89	0.0000	P	18.1
3	☐	1.000	1.078	52.78	0.0000	P	24.5
4	☐	50.000	51.669	2201.59	0.0005	P	4.6
5	☐	125.000	130.727	5651.23	0.0012	P	3.3
6	☐	250.000	253.334	11035.07	0.0022	P	3.3
7	☐	500.000	505.879	21973.17	0.0045	P	2.5
8	☐	1000.000	995.428	43606.17	0.0088	P	3.7
9	☐			52.78	0.0000	P	25.4

$$y = 8.8705\text{E-}006 * x + 1.4996\text{E-}006$$

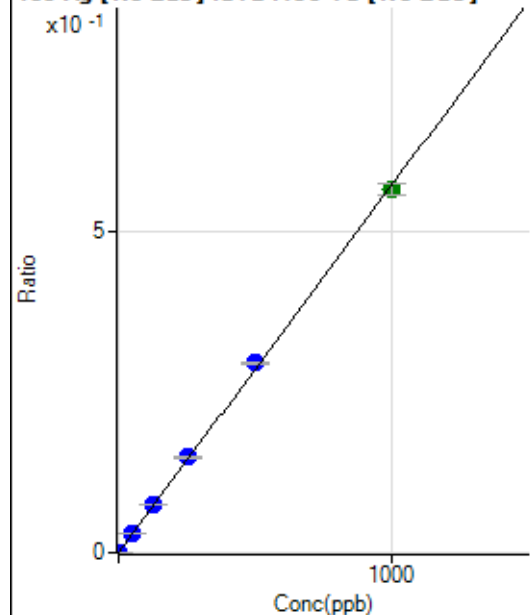
$$R = 1.0000$$

$$DL = 0.4634$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	19.44	0.0000	P	49.4
2	☐	0.100	0.101	297.23	0.0001	P	27.3
3	☐	1.000	1.004	2767.01	0.0006	P	4.3
4	☐	50.000	52.625	144536.90	0.0302	P	2.1
5	☐	125.000	131.319	366435.92	0.0753	P	2.2
6	☐	250.000	259.998	731707.69	0.1491	P	1.0
7	☐	500.000	517.086	1451541.46	0.2965	P	0.6
8	☐	1000.000	988.037	2797626.25	0.5665	A	3.3
9	☐			1358.44	0.0003	P	1.9

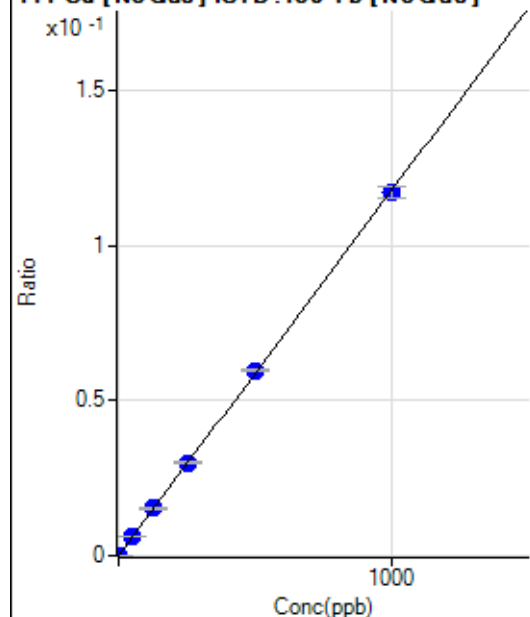
$$y = 5.7340\text{E-}004 * x + 4.1572\text{E-}006$$

$$R = 0.9997$$

$$DL = 0.01074$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	190.85	0.0000	P	4.6
2	☐	0.100	0.113	258.35	0.0001	P	4.8
3	☐	1.000	1.263	903.66	0.0002	P	3.8
4	☐	50.000	52.509	29773.10	0.0062	P	0.6
5	☐	125.000	128.809	73910.30	0.0152	P	1.5
6	☐	250.000	254.966	147340.31	0.0300	P	1.5
7	☐	500.000	508.244	292764.26	0.0598	P	0.9
8	☐	1000.000	994.035	577382.10	0.1169	P	3.1
9	☐			407.25	0.0001	P	9.1

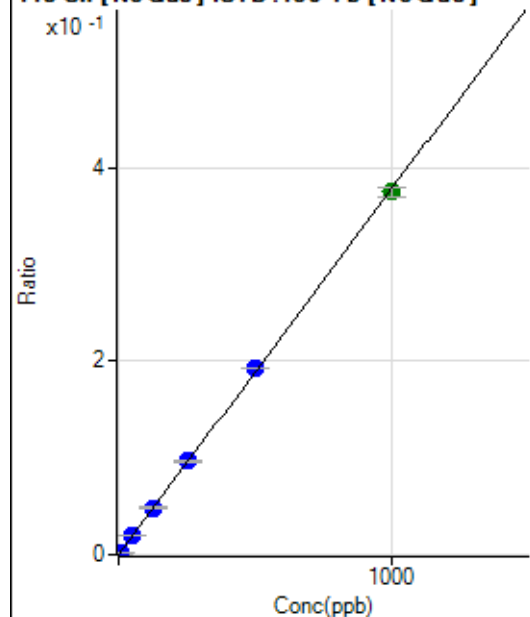
$$y = 1.1759\text{E-}004 * x + 4.0866\text{E-}005$$

$$R = 0.9999$$

$$DL = 0.04773$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	200.01	0.0000	P	6.5
2	☐	0.500	0.495	1097.30	0.0002	P	11.1
3	☐	5.000	4.638	8555.65	0.0018	P	2.4
4	☐	50.000	51.520	93317.95	0.0195	P	1.8
5	☐	125.000	128.637	236416.07	0.0486	P	2.5
6	☐	250.000	256.710	475599.43	0.0969	P	2.0
7	☐	500.000	510.525	943308.25	0.1927	P	0.3
8	☐	1000.000	992.531	1849825.74	0.3746	A	2.4
9	☐			738.93	0.0002	P	9.5

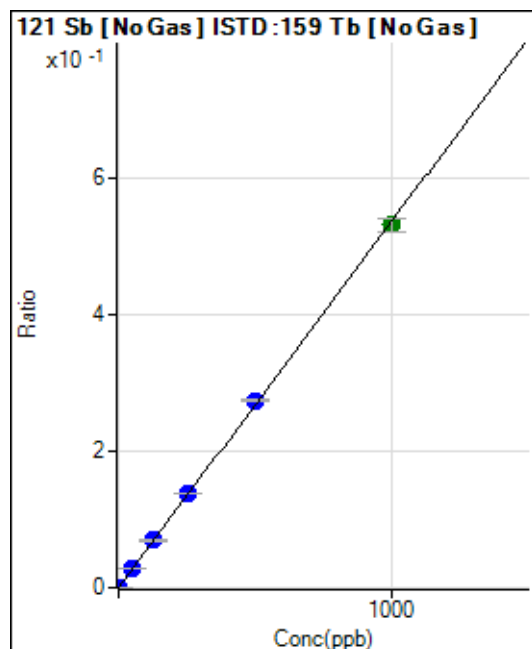
$$y = 3.7734\text{E-}004 * x + 4.2768\text{E-}005$$

$$R = 0.9999$$

$$DL = 0.02207$$

Weight: <None>

Min Conc: 0



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	De _t	RSD
1	☐	0.000	0.000	50.00	0.0000	P	44.6
2	☐	0.200	0.189	536.14	0.0001	P	7.4
3	☐	2.000	1.927	4984.38	0.0010	P	6.7
4	☐	50.000	51.633	132704.39	0.0277	P	1.5
5	☐	125.000	129.123	337099.91	0.0693	P	2.0
6	☐	250.000	257.165	677080.40	0.1380	P	1.0
7	☐	500.000	512.331	1345386.25	0.2748	P	1.0
8	☐	1000.000	991.446	2626032.00	0.5318	A	3.4
9	☐			1897.41	0.0004	P	5.7

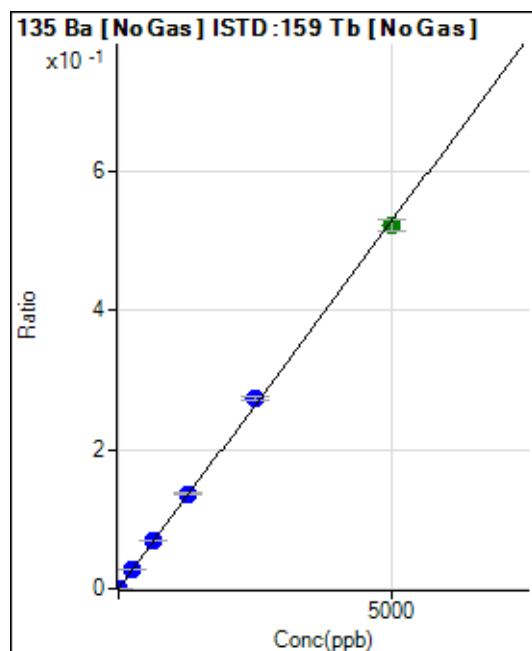
$$y = 5.3640\text{E-}004 * x + 1.0724\text{E-}005$$

$$R = 0.9999$$

$$DL = 0.02676$$

Weight: <None>

Min Conc: 0



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	De _t	RSD
1	☐	0.000	0.000	105.56	0.0000	P	49.5
2	☐	1.000	0.957	591.70	0.0001	P	0.7
3	☐	10.000	9.919	5109.42	0.0011	P	3.4
4	☐	250.000	261.228	132314.72	0.0276	P	1.8
5	☐	625.000	649.633	334166.11	0.0687	P	1.7
6	☐	1250.000	1292.233	670276.48	0.1366	P	1.0
7	☐	2500.000	2594.467	1342155.65	0.2742	P	1.6
8	☐	5000.000	4938.568	2576945.02	0.5219	A	3.3
9	☐			4823.22	0.0010	P	3.2

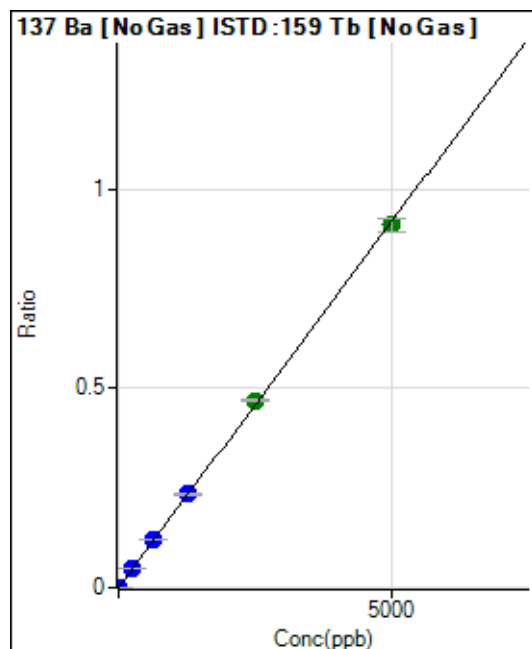
$$y = 1.0567\text{E-}004 * x + 2.2732\text{E-}005$$

$$R = 0.9997$$

$$DL = 0.3197$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	119.45	0.0000	P	19.0
2	☐	1.000	0.897	908.39	0.0002	P	10.9
3	☐	10.000	9.572	8502.91	0.0018	P	2.8
4	☐	250.000	260.603	229195.90	0.0478	P	0.1
5	☐	625.000	650.659	581146.75	0.1194	P	1.6
6	☐	1250.000	1279.468	1152380.82	0.2348	P	1.2
7	☐	2500.000	2561.815	2301288.90	0.4701	A	1.3
8	☐	5000.000	4957.989	4492138.64	0.9098	A	3.8
9	☐			8144.33	0.0017	P	4.6

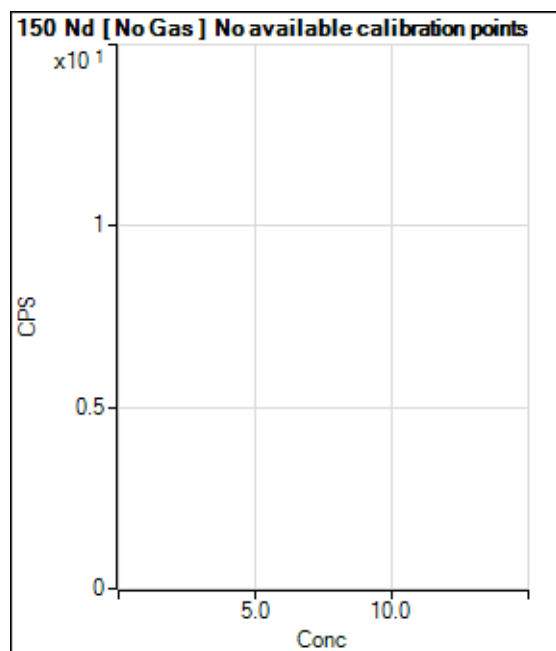
$$y = 1.8350E-004 * x + 2.5519E-005$$

$$R = 0.9999$$

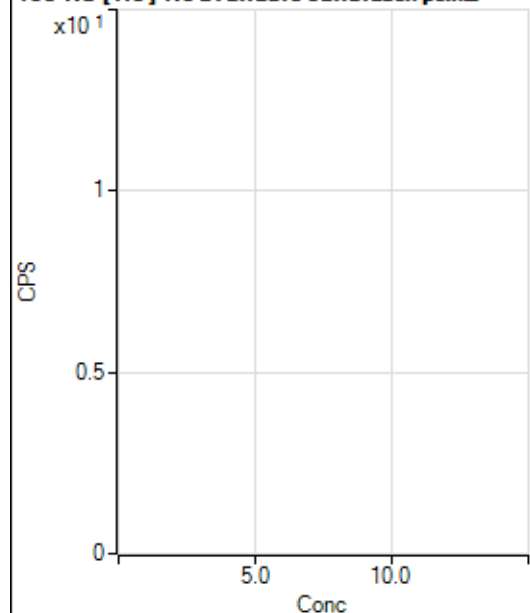
$$DL = 0.07912$$

Weight: <None>

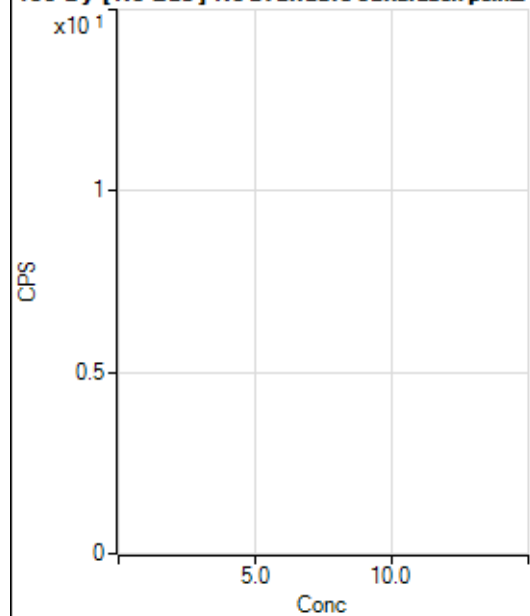
Min Conc: 0



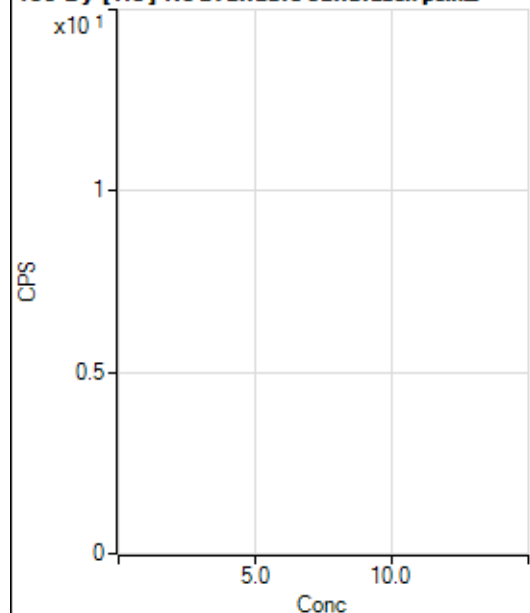
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			4.44		P	173.2
2	☐			8.89		P	114.5
3	☐			15.55		P	24.8
4	☐			11.11		P	34.6
5	☐			8.89		P	43.3
6	☐			28.89		P	48.0
7	☐			75.56		P	18.4
8	☐			142.23		P	9.8
9	☐			17.78		P	114.6

150 Nd [He] No available calibration points

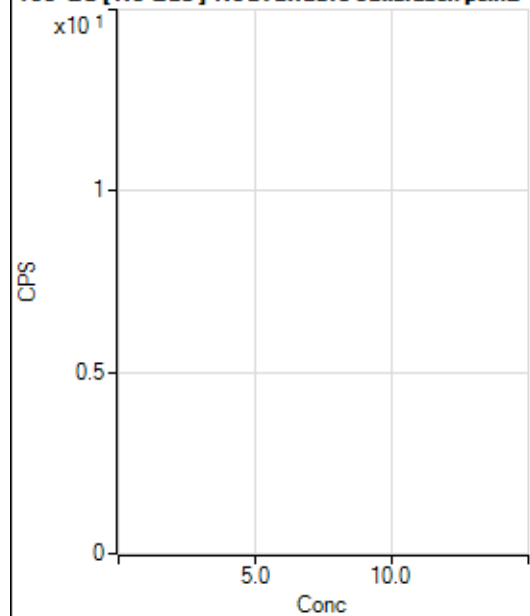
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			1.11		P	173.2
2	☐			1.11		P	173.2
3	☐			1.11		P	173.2
4	☐			2.22		P	86.6
5	☐			3.33		P	173.2
6	☐			6.67		P	100.0
7	☐			17.78		P	10.8
8	☐			7.78		P	49.5
9	☐			6.67		P	50.0

156 Dy [No Gas] No available calibration points

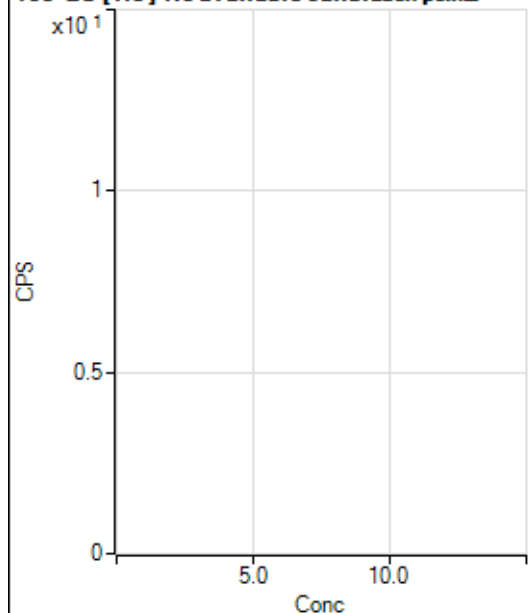
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			52.78		P	87.0
2	☐			58.33		P	14.3
3	☐			97.23		P	13.1
4	☐			69.45		P	18.3
5	☐			108.34		P	26.6
6	☐			86.12		P	44.7
7	☐			77.78		P	27.0
8	☐			102.78		P	16.9
9	☐			208.34		P	4.0

156 Dy [He] No available calibration points

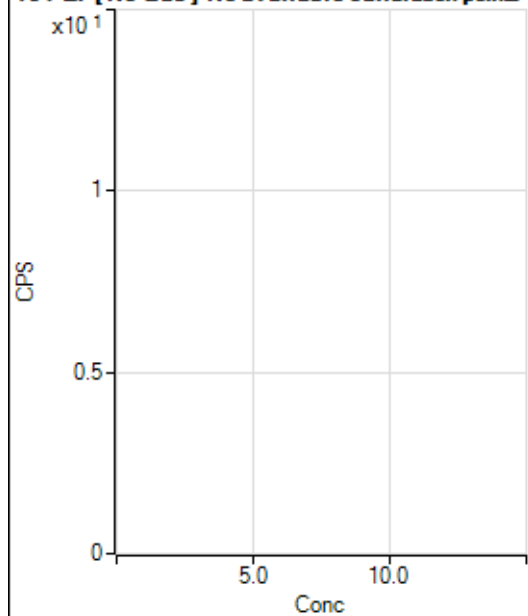
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			6.67		P	50.0
2	☐			8.89		P	57.3
3	☐			3.33		P	100.1
4	☐			5.56		P	34.7
5	☐			12.22		P	41.7
6	☐			18.89		P	40.7
7	☐			18.89		P	44.4
8	☐			27.78		P	45.4
9	☐			91.11		P	13.8

160 Gd [No Gas] Noavailable calibration poin_

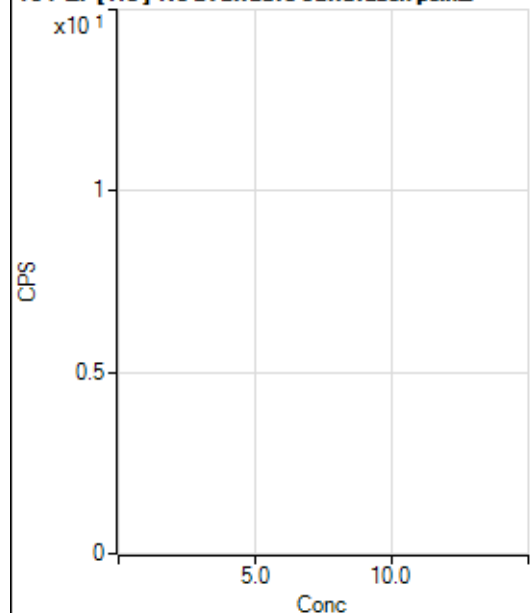
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			41.66		P	34.6
2	☐			33.33		P	25.0
3	☐			36.11		P	35.3
4	☐			58.34		P	75.6
5	☐			47.22		P	50.9
6	☐			38.89		P	44.6
7	☐			77.78		P	34.4
8	☐			63.89		P	32.8
9	☐			172.23		P	20.1

160 Gd [He] No available calibration points

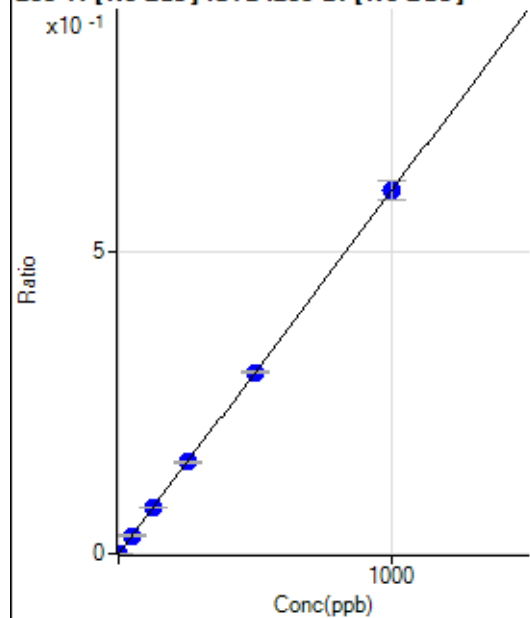
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			14.45		P	26.7
2	☐			18.89		P	44.4
3	☐			23.33		P	24.7
4	☐			27.78		P	25.0
5	☐			22.22		P	48.2
6	☐			21.11		P	32.9
7	☐			35.55		P	37.9
8	☐			48.89		P	21.9
9	☐			95.56		P	12.3

164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			25.00		P	66.7
2	☐			30.55		P	68.6
3	☐			22.22		P	21.6
4	☐			44.45		P	47.2
5	☐			27.78		P	45.8
6	☐			50.00		P	16.7
7	☐			41.67		P	0.0
8	☐			33.33		P	25.0
9	☐			61.11		P	20.8

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			10.00		P	33.3
2	☐			5.55		P	69.3
3	☐			11.11		P	45.8
4	☐			12.22		P	56.8
5	☐			8.89		P	21.6
6	☐			15.55		P	68.9
7	☐			16.66		P	34.6
8	☐			11.11		P	45.8
9	☐			21.11		P	18.2

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	19.44	0.0000	P	51.5
2	☐	0.100	0.101	177.78	0.0001	P	15.8
3	☐	1.000	1.005	1591.81	0.0006	P	10.6
4	☐	50.000	50.233	79367.53	0.0303	P	0.9
5	☐	125.000	126.959	203042.48	0.0764	P	0.8
6	☐	250.000	252.206	403067.44	0.1519	P	3.0
7	☐	500.000	498.597	804968.18	0.3002	P	1.1
8	☐	1000.000	999.894	1600973.93	0.6020	P	5.2
9	☐			1083.41	0.0004	P	1.6

$$y = 6.0209E-004 * x + 7.5716E-006$$

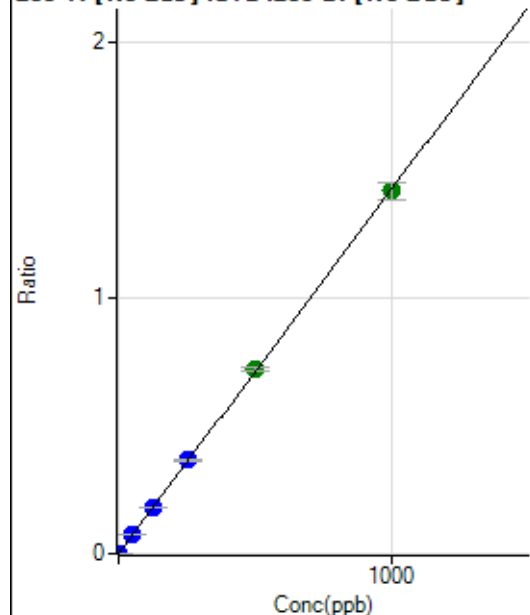
$$R = 1.0000$$

$$DL = 0.01944$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	30.56	0.0000	P	39.3
2	☐	0.100	0.092	372.24	0.0001	P	9.6
3	☐	1.000	0.933	3478.33	0.0013	P	3.4
4	☐	50.000	50.738	189624.74	0.0723	P	1.1
5	☐	125.000	127.404	481945.73	0.1815	P	1.5
6	☐	250.000	256.417	969330.57	0.3652	P	3.3
7	☐	500.000	504.685	1927304.04	0.7188	A	2.1
8	☐	1000.000	995.716	3771731.77	1.4182	A	4.7
9	☐			2755.94	0.0011	P	17.2

$$y = 0.0014 * x + 1.1672E-005$$

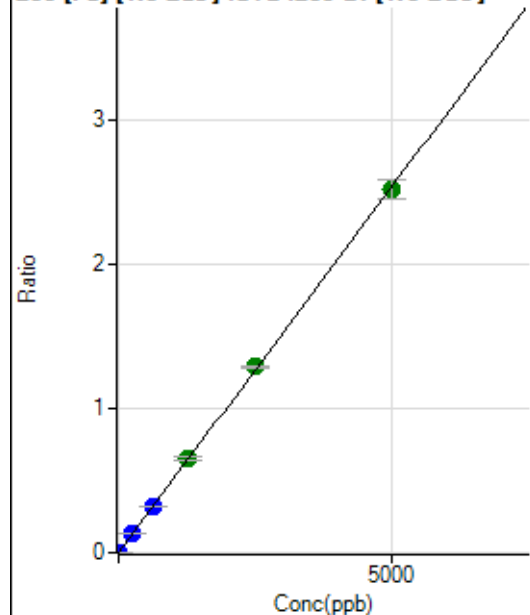
$$R = 1.0000$$

$$DL = 0.009673$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	361.12	0.0001	P	3.8
2	☐	0.100	0.063	444.46	0.0002	P	4.4
3	☐	1.000	0.917	1566.79	0.0006	P	4.1
4	☐	250.000	253.699	337485.86	0.1286	P	1.9
5	☐	625.000	632.639	851410.14	0.3206	P	1.6
6	☐	1250.000	1293.212	1738804.03	0.6552	A	3.8
7	☐	2500.000	2548.530	3461781.62	1.2910	A	0.9
8	☐	5000.000	4963.792	6686430.94	2.5144	A	5.3
9	☐			6622.17	0.0026	P	2.0

$$y = 5.0653E-004 * x + 1.3884E-004$$

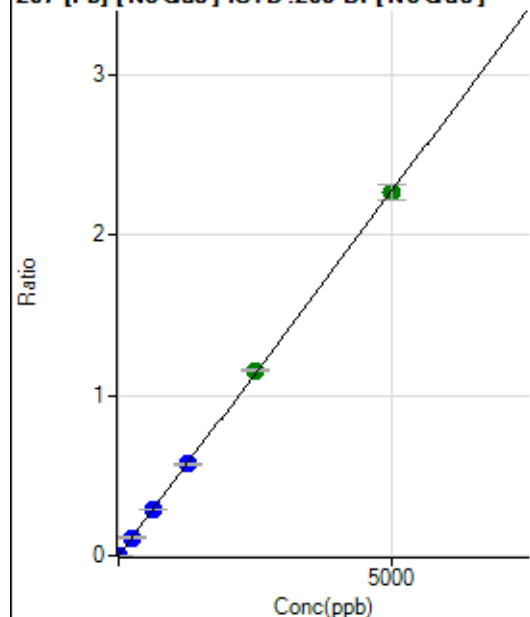
$$R = 0.9999$$

$$DL = 0.03086$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	374.09	0.0001	P	20.9
2	☐	0.100	0.088	479.65	0.0002	P	19.0
3	☐	1.000	0.880	1413.07	0.0005	P	2.5
4	☐	250.000	249.263	297669.08	0.1135	P	0.9
5	☐	625.000	627.624	758142.30	0.2855	P	1.5
6	☐	1250.000	1256.425	1516372.97	0.5713	P	3.1
7	☐	2500.000	2539.689	3096115.75	1.1547	A	1.0
8	☐	5000.000	4978.258	6020026.12	2.2633	A	4.3
9	☐			5749.53	0.0023	P	2.5

$$y = 4.5461\text{E-}004 * x + 1.4423\text{E-}004$$

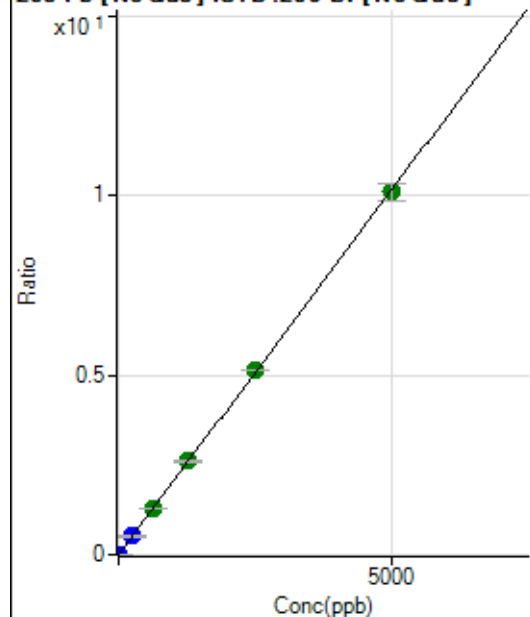
$$R = 1.0000$$

$$DL = 0.1992$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	1574.14	0.0006	P	9.3
2	☐	0.100	0.079	1994.54	0.0008	P	1.7
3	☐	1.000	0.895	6291.46	0.0024	P	3.0
4	☐	250.000	251.826	1344031.17	0.5123	P	1.5
5	☐	625.000	638.081	3445204.40	1.2972	A	1.4
6	☐	1250.000	1282.631	6920214.61	2.6070	A	2.5
7	☐	2500.000	2529.142	13782498.34	5.1399	A	0.4
8	☐	5000.000	4975.545	26893027.40	10.1111	A	4.4
9	☐			26383.18	0.0105	P	0.8

$$y = 0.0020 * x + 6.0532\text{E-}004$$

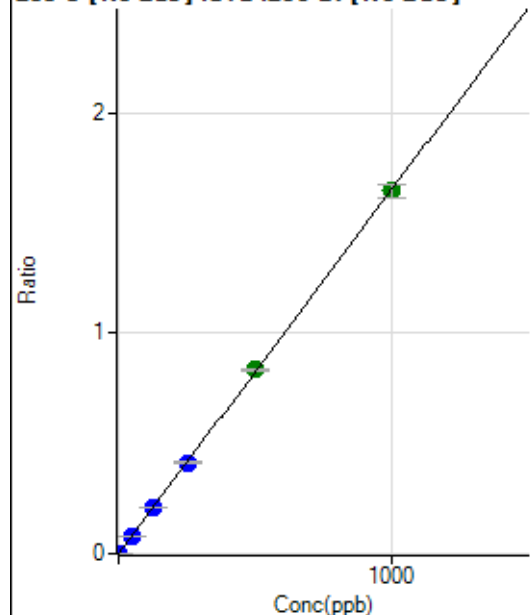
$$R = 0.9999$$

$$DL = 0.08332$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	22.22	0.0000	P	80.5
2	☐	0.100	0.086	391.68	0.0002	P	15.1
3	☐	1.000	0.913	3934.05	0.0015	P	2.5
4	☐	50.000	49.967	216406.89	0.0825	P	0.4
5	☐	125.000	125.944	552112.03	0.2079	P	0.8
6	☐	250.000	250.561	1097641.10	0.4136	P	3.1
7	☐	500.000	505.216	2235813.13	0.8339	A	1.1
8	☐	1000.000	997.136	4377700.01	1.6458	A	4.1
9	☐			497.25	0.0002	P	14.9

$$y = 0.0017 * x + 8.6139E-006$$

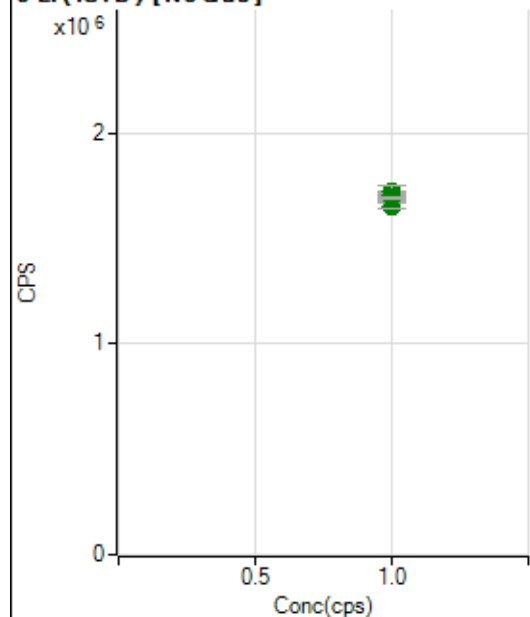
$$R = 1.0000$$

$$DL = 0.0126$$

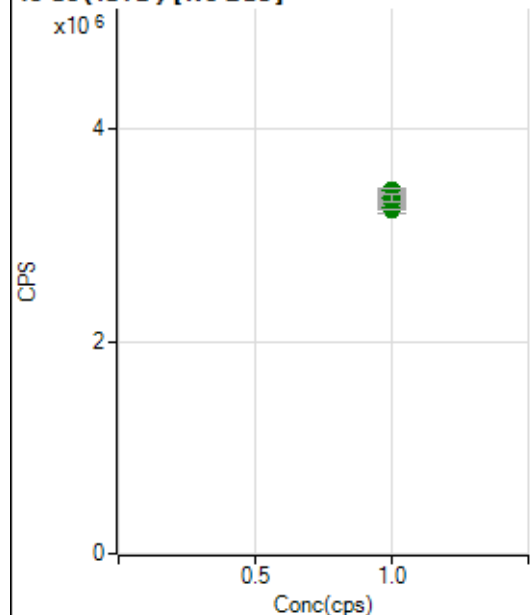
Weight: <None>

Min Conc: 0

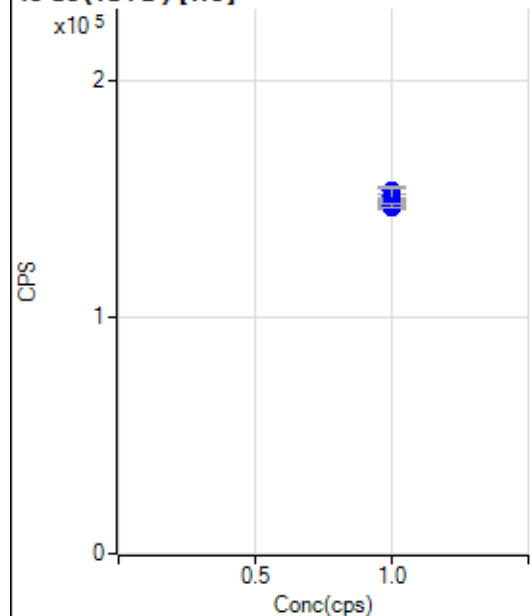
6 Li (ISTD) [No Gas]



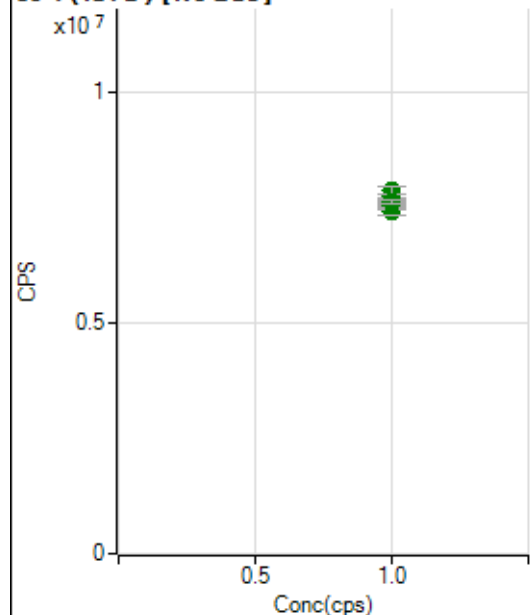
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		1683343.13		A	1.3
2	☐	1.000		1708105.05		A	1.0
3	☐	1.000		1651684.21		A	1.7
4	☐	1.000		1688729.24		A	2.5
5	☐	1.000		1704007.29		A	1.3
6	☐	1.000		1702934.81		A	1.8
7	☐	1.000		1705312.46		A	2.0
8	☐	1.000		1719258.34		A	3.1
9	☐	1.000		1690709.01		A	0.9

45 Sc (ISTD) [No Gas]

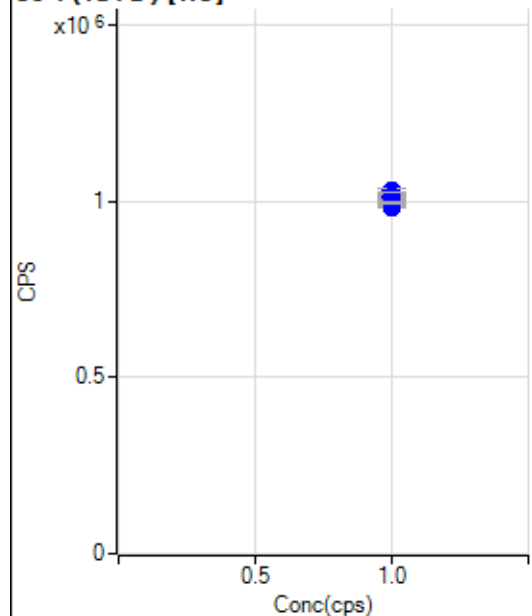
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		3256077.49		A	2.4
2	☐	1.000		3294040.82		A	1.6
3	☐	1.000		3271847.07		A	1.0
4	☐	1.000		3345815.82		A	2.2
5	☐	1.000		3341626.93		A	0.2
6	☐	1.000		3349100.61		A	0.9
7	☐	1.000		3400171.27		A	1.6
8	☐	1.000		3422515.02		A	1.1
9	☐	1.000		3357769.12		A	1.7

45 Sc (ISTD) [He]

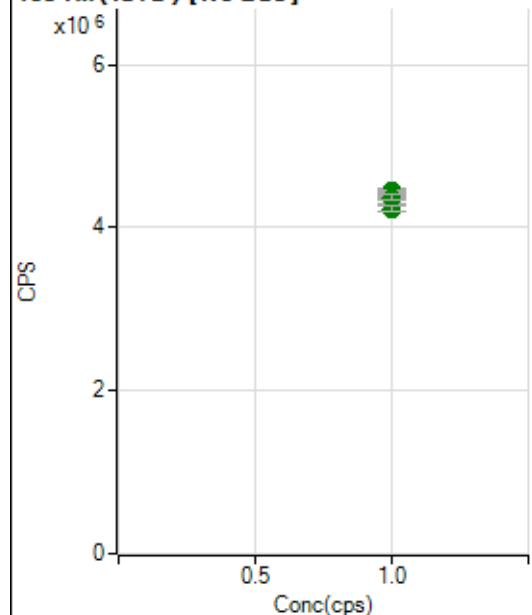
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		148573.18		P	2.7
2	☐	1.000		146554.07		P	0.8
3	☐	1.000		148196.80		P	1.3
4	☐	1.000		148870.13		P	0.7
5	☐	1.000		149759.75		P	0.8
6	☐	1.000		149775.81		P	0.6
7	☐	1.000		153504.90		P	2.0
8	☐	1.000		151374.54		P	3.7
9	☐	1.000		147237.95		P	0.8

89 Y (ISTD) [No Gas]

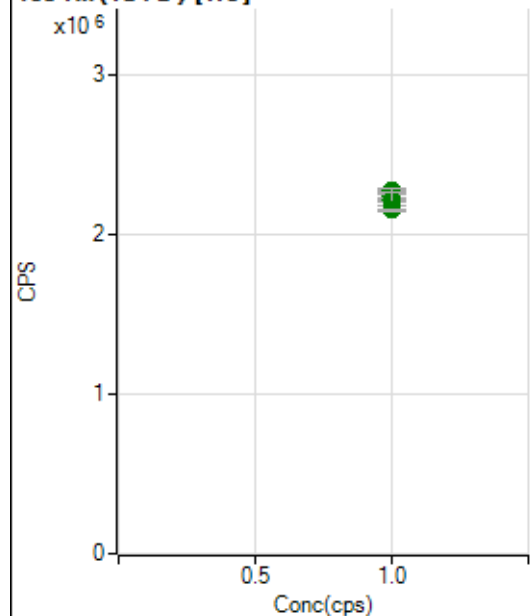
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		7429466.07		A	3.0
2	☐	1.000		7538875.31		A	1.9
3	☐	1.000		7587065.10		A	0.3
4	☐	1.000		7619059.89		A	2.8
5	☐	1.000		7666011.42		A	0.9
6	☐	1.000		7651626.00		A	0.7
7	☐	1.000		7757795.09		A	1.2
8	☐	1.000		7859475.09		A	2.1
9	☐	1.000		7633941.76		A	0.9

89 Y (ISTD) [He]

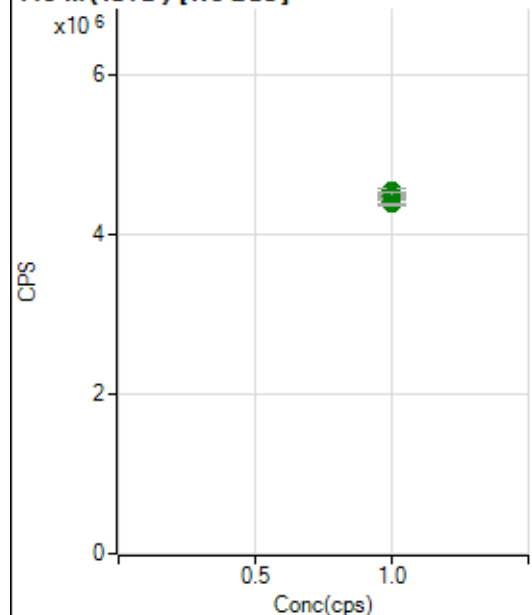
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		996254.41		P	2.0
2	☐	1.000		985397.50		P	0.3
3	☐	1.000		994985.79		P	0.5
4	☐	1.000		1001258.83		P	1.3
5	☐	1.000		1003053.13		P	0.4
6	☐	1.000		1008075.85		P	1.1
7	☐	1.000		1030167.11		P	1.7
8	☐	1.000		1013323.43		P	2.8
9	☐	1.000		997390.31		P	0.5

103 Rh (ISTD) [No Gas]

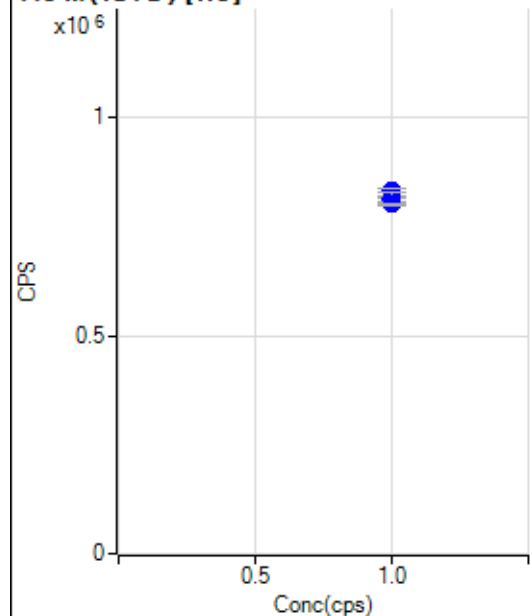
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		4329373.23		A	1.5
2	☐	1.000		4335487.51		A	1.5
3	☐	1.000		4382074.45		A	1.6
4	☐	1.000		4440117.85		A	1.7
5	☐	1.000		4420038.64		A	1.5
6	☐	1.000		4373622.58		A	1.4
7	☐	1.000		4450808.09		A	0.6
8	☐	1.000		4373699.75		A	1.8
9	☐	1.000		4226253.40		A	1.8

103 Rh (ISTD) [He]

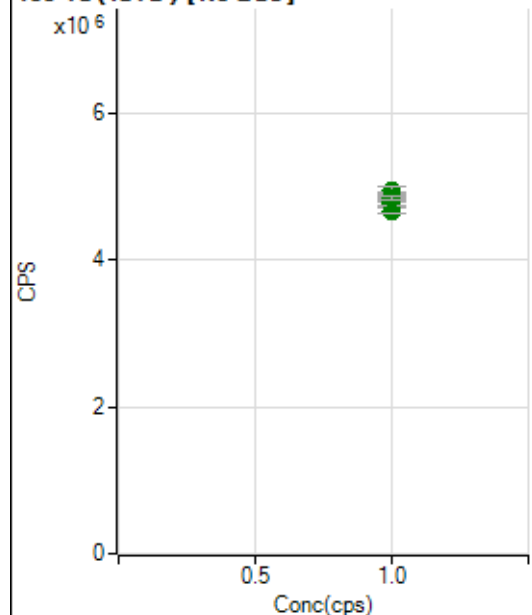
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		2225628.35		A	2.3
2	☐	1.000		2216591.76		A	0.7
3	☐	1.000		2266954.72		A	1.1
4	☐	1.000		2238988.33		A	1.9
5	☐	1.000		2213245.37		A	0.4
6	☐	1.000		2240928.21		A	1.3
7	☐	1.000		2272159.93		A	1.4
8	☐	1.000		2219729.71		A	3.6
9	☐	1.000		2151070.07		A	0.8

115 In (ISTD) [No Gas]

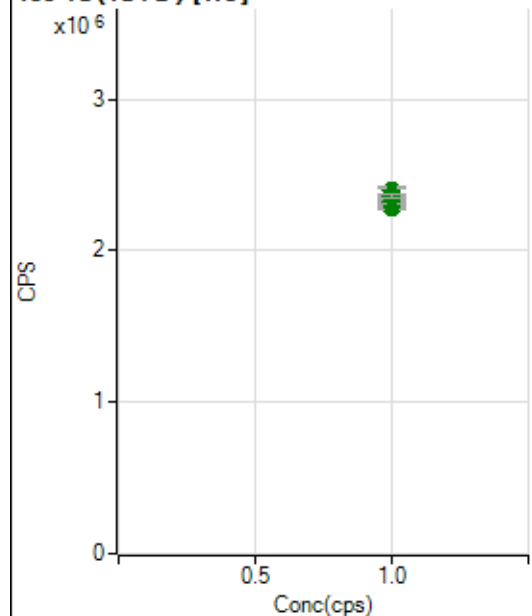
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		4415344.99		A	2.5
2	☐	1.000		4415913.62		A	1.0
3	☐	1.000		4382815.24		A	0.8
4	☐	1.000		4467852.90		A	1.3
5	☐	1.000		4499857.23		A	0.1
6	☐	1.000		4483849.83		A	0.8
7	☐	1.000		4549190.18		A	1.2
8	☐	1.000		4492916.35		A	2.1
9	☐	1.000		4378526.79		A	1.0

115 In (ISTD) [He]

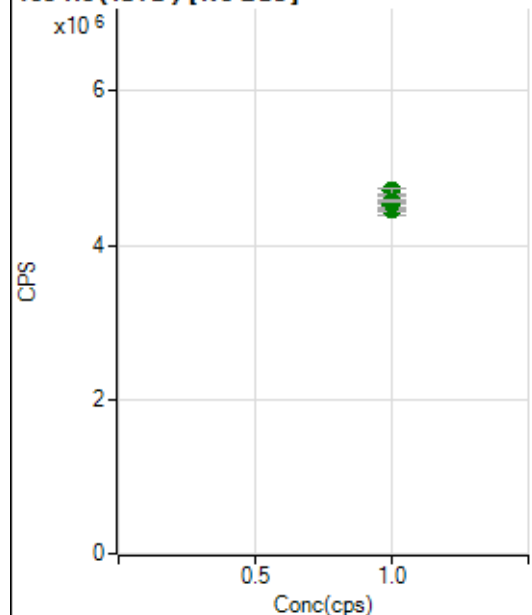
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		810167.71		P	2.4
2	☐	1.000		803114.90		P	0.7
3	☐	1.000		812659.76		P	1.0
4	☐	1.000		815674.74		P	1.5
5	☐	1.000		815966.57		P	0.2
6	☐	1.000		819826.34		P	0.6
7	☐	1.000		832361.21		P	1.1
8	☐	1.000		817809.53		P	3.3
9	☐	1.000		801157.37		P	0.6

159 Tb (ISTD) [No Gas]

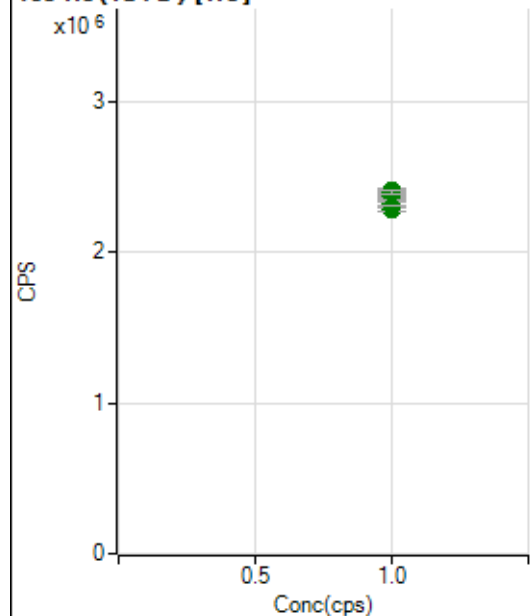
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		4672871.63		A	1.9
2	☐	1.000		4775547.95		A	1.2
3	☐	1.000		4771849.37		A	0.9
4	☐	1.000		4790436.25		A	1.8
5	☐	1.000		4867222.15		A	1.5
6	☐	1.000		4908159.09		A	0.8
7	☐	1.000		4895709.27		A	1.1
8	☐	1.000		4940192.32		A	2.2
9	☐	1.000		4850552.05		A	0.9

159 Tb (ISTD) [He]

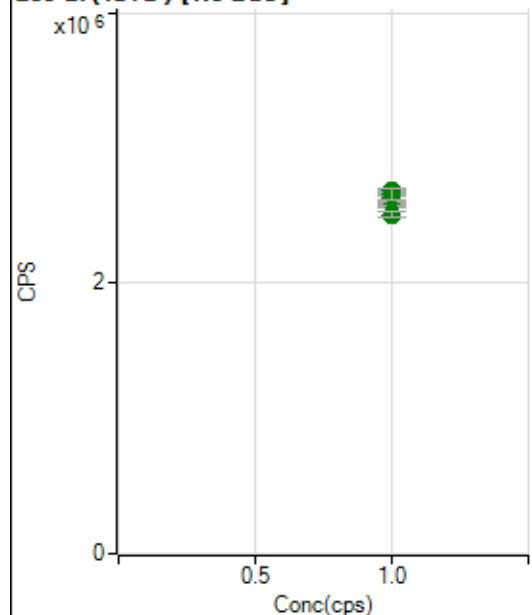
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		2306625.52		A	2.7
2	☐	1.000		2280542.27		A	0.7
3	☐	1.000		2305960.21		A	1.6
4	☐	1.000		2328537.06		A	2.8
5	☐	1.000		2311683.07		A	1.7
6	☐	1.000		2321775.75		A	1.0
7	☐	1.000		2395312.90		A	3.0
8	☐	1.000		2375784.30		A	2.8
9	☐	1.000		2361769.08		A	1.0

165 Ho (ISTD) [No Gas]

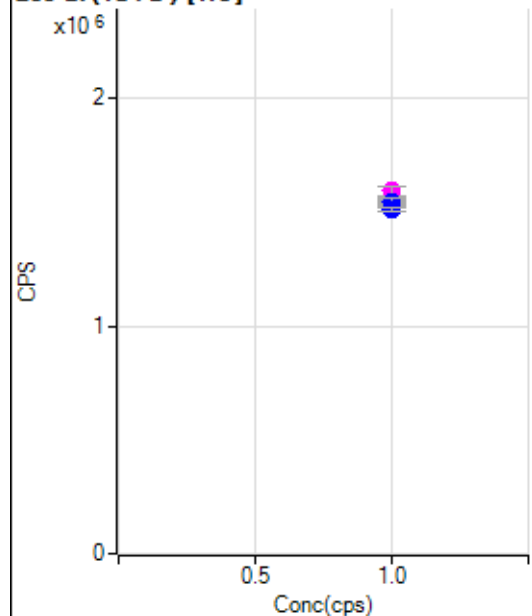
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		4459075.40		A	3.4
2	☐	1.000		4506891.68		A	2.1
3	☐	1.000		4456999.45		A	0.6
4	☐	1.000		4531042.55		A	2.2
5	☐	1.000		4578958.35		A	0.5
6	☐	1.000		4601337.30		A	1.3
7	☐	1.000		4644212.39		A	0.6
8	☐	1.000		4705764.78		A	1.5
9	☐	1.000		4574303.58		A	0.4

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		2302893.94		A	3.4
2	☐	1.000		2281912.07		A	1.1
3	☐	1.000		2341774.81		A	1.1
4	☐	1.000		2331179.05		A	3.2
5	☐	1.000		2306692.95		A	0.3
6	☐	1.000		2321488.01		A	1.3
7	☐	1.000		2406044.41		A	1.9
8	☐	1.000		2372111.67		A	2.4
9	☐	1.000		2397990.17		A	1.0

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		2601964.86		A	3.8
2	☐	1.000		2602531.35		A	1.0
3	☐	1.000		2596304.28		A	1.4
4	☐	1.000		2623805.58		A	1.7
5	☐	1.000		2656164.80		A	1.4
6	☐	1.000		2655685.36		A	2.8
7	☐	1.000		2681527.30		A	1.2
8	☐	1.000		2662234.13		A	3.2
9	☐	1.000		2508122.34		A	1.8

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		1536833.90		P	2.5
2	☐	1.000		1525518.90		P	0.8
3	☐	1.000		1536563.50		P	0.3
4	☐	1.000		1542374.09		P	1.1
5	☐	1.000		1541202.65		P	0.8
6	☐	1.000		1549973.38		P	0.7
7	☐	1.000		1592212.29		M	2.7
8	☐	1.000		1541878.76		P	2.4
9	☐	1.000		1507212.48		P	1.2

US EPA Tune Check Report

Operator Name Jaswal
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\P8102620MS1.b
Acq. Date-Time 2020-10-26 17:02:15
Report Comment ---
Instrument Name G8403A SG19224459

[No Gas]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
9		2937	29374.76			0.361	5.000
24		35470	354700.17			0.380	5.000
25		4678	46779.67			1.287	5.000
26		5247	52473.28			1.062	5.000
59		19044	190435.45			0.893	5.000
113		2795	27951.23			0.870	5.000
115		9688	96880.75			0.643	5.000
206		2946	29460.07			1.453	5.000
207		2438	24378.61			0.969	5.000
208		5978	59780.45			0.834	5.000
220		1	7.50			22.608	

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

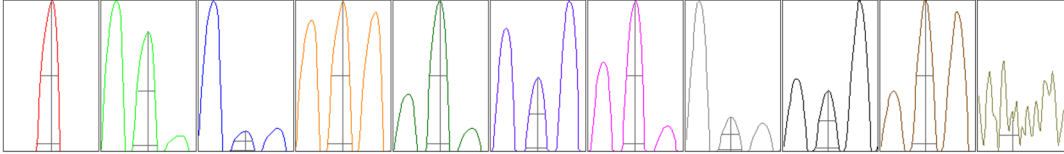
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	2939	2943	2937	2920	2948
24	35519	35354	35418	35376	35683
25	4686	4631	4695	4613	4766
26	5262	5212	5268	5175	5320
59	18900	18857	19124	19062	19274
113	2779	2779	2793	2787	2837
115	9755	9672	9726	9592	9696
206	2916	2905	2941	2955	3014
207	2415	2423	2446	2431	2475
208	5936	5940	6020	5952	6043

US EPA Tune Check Report

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

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	5698.98	9.05	8.90 - 9.10	
24	65275.27	24.00	23.90 - 24.10	
25	8530.52	25.00	24.90 - 25.10	
26	9787.80	26.00	25.90 - 26.10	
59	36595.97	59.00	58.90 - 59.10	
113	5720.59	113.00	112.90 - 113.10	
115	19722.20	115.00	114.90 - 115.10	
206	5759.10	205.95	205.90 - 206.10	
207	4783.46	206.95	206.90 - 207.10	
208	11938.29	207.95	207.90 - 208.10	
220	0.75	219.65	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.55	0.723	0.900	
24	0.57	0.774	0.900	
25	0.59	0.740	0.900	
26	0.57	0.773	0.900	
59	0.55	0.728	0.900	
113	0.51	0.682	0.900	
115	0.50	0.688	0.900	
206	0.54	0.752	0.900	
207	0.53	0.755	0.900	
208	0.53	0.774	0.900	
220	0.60			

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode HMI Nebulizer Gas 0.51 L/min Dilution Gas 0.46 L/min

US EPA Tune Check Report

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

Lens Parameters

Extract 1	-6.0 V	Omega Lens	10.1 V	Deflect	15.8 V
Extract 2	-250.0 V	Cell Entrance	-30 V	Plate Bias	-50 V
Omega Bias	-115 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	4.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	---	OctP RF	160 V		

QP Parameters

Mass Gain	122	Axis Gain	0.9991	QP Bias	-4.0 V
Mass Offset	125	Axis Offset	-0.02		

Hardware Settings

Torch

Torch H	0.8 mm	Torch V	-0.2 mm
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EM

Discriminator	3.9 mV	Analog HV	2180 V	Pulse HV	1320 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		5014	50142.25			0.321	
89		11469	114690.27			0.231	
205		7784	77837.07			1.264	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	4996	5000	5019	5023	5034
89	11446	11465	11472	11512	11449
205	7751	7633	7814	7827	7894

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	HMI	Nebulizer Gas	0.51 L/min	Dilution Gas	0.46 L/min
RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.40 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	10.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	-6.0 V	Omega Lens	10.1 V	Deflect	3.8 V
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US EPA Tune Check Report

Extract 2	-250.0 V	Cell Entrance	-50 V	Plate Bias	-60 V
Omega Bias	-115 V	Cell Exit	-70 V		
Cell Parameters					
Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	4.5 mL/min	OctP Bias	-18.0 V		
H2 Flow	---	OctP RF	190 V		
QP Parameters					
Mass Gain	122	Axis Gain	0.9991	QP Bias	-13.0 V
Mass Offset	125	Axis Offset	-0.02		
Hardware Settings					
Torch					
Torch H	0.8 mm	Torch V	-0.2 mm		
EM					
Discriminator	3.9 mV	Analog HV	2180 V	Pulse HV	1320 V