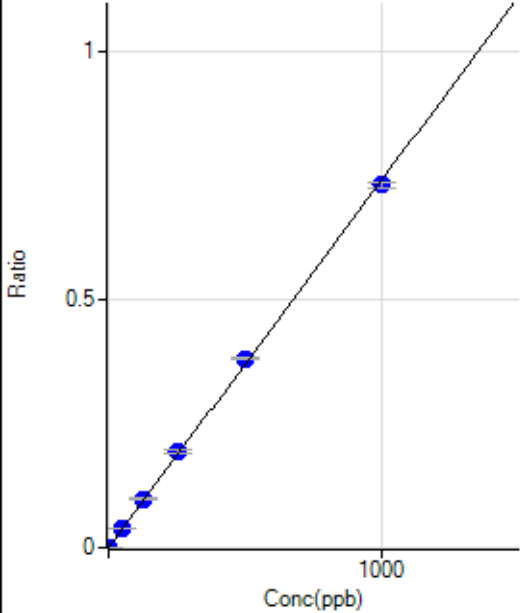


Calibration for 002CALB.d

Batch Folder: D:\Agilent\ICPMH\1\DATA\P7072524-MS.b\
 Analysis File: P7072524-MS.batch.bin
 DA Date-Time: 2024-07-25 17:39:33
 Calibration Title:
 Calibration Method: External Calibration
 VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	003CALB.d	S00	2024-07-25 11:44:24
2	005CALS.d	S02	2024-07-25 11:51:04
3	006CALS.d	S03	2024-07-25 11:54:24
4	007CALS.d	S04	2024-07-25 11:57:42
5	008CALS.d	S05	2024-07-25 12:00:51
6	009CALS.d	S06	2024-07-25 12:03:53
7	010CALS.d	S07	2024-07-25 12:06:51
8	011CALS.d	S08	2024-07-25 12:09:43

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	50.00	0.0001	P	43.5
2	☐	1.000	1.060	678.91	0.0008	P	3.5
3	☐	50.000	54.003	31793.61	0.0400	P	1.9
4	☐	125.000	133.111	76785.92	0.0985	P	1.2
5	☐	250.000	262.261	147425.20	0.1939	P	2.4
6	☐	500.000	515.388	284957.13	0.3810	P	1.4
7	☐	1000.000	988.027	551013.37	0.7304	P	1.7
8	☐			848.92	0.0011	P	19.0

$y = 7.3919E-004 * x + 6.1784E-005$

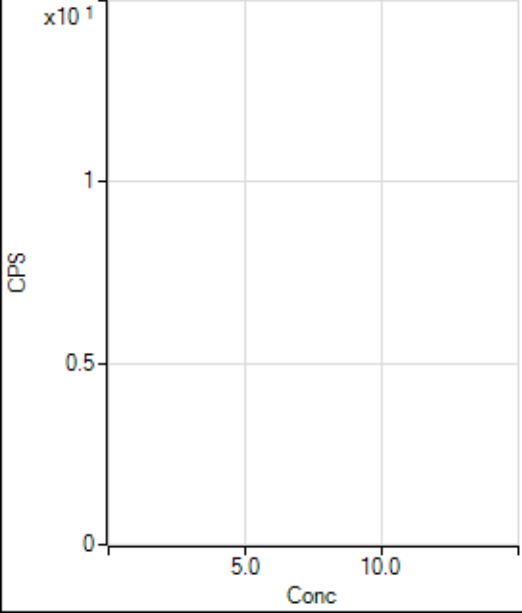
$R = 0.9997$

$DL = 0.1092$

Weight: <None>

Min Conc: 0

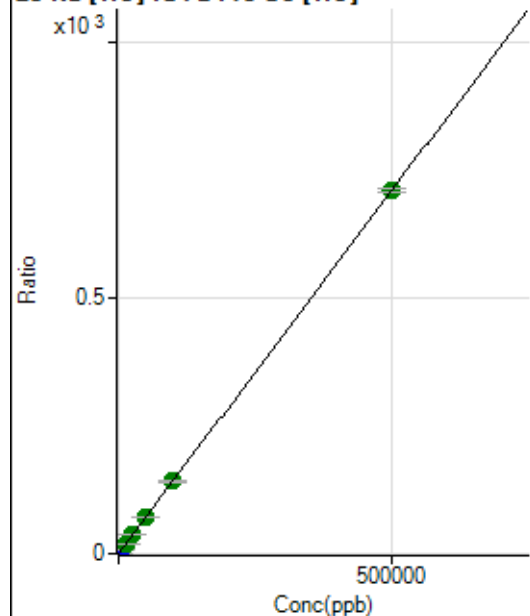
12 C [No Gas] No available calibration points



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

12 C [He] No available calibration points

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

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	5134.24	0.0364	P	0.8
2	☐	500.000	546.510	111141.75	0.8117	P	7.7
3	☐	5000.000	5374.108	1060196.89	7.6607	P	0.2
4	☐	12500.000	12764.349	2455561.20	18.1453	A	0.8
5	☐	25000.000	26502.074	4705595.56	37.6351	A	7.6
6	☐	50000.000	50215.453	9227817.29	71.2775	A	1.7
7	☐	100000.00	99552.798	18347693.75	141.2729	A	0.8
8	☐	500000.00	499982.39	94007888.60	709.3665	A	1.1

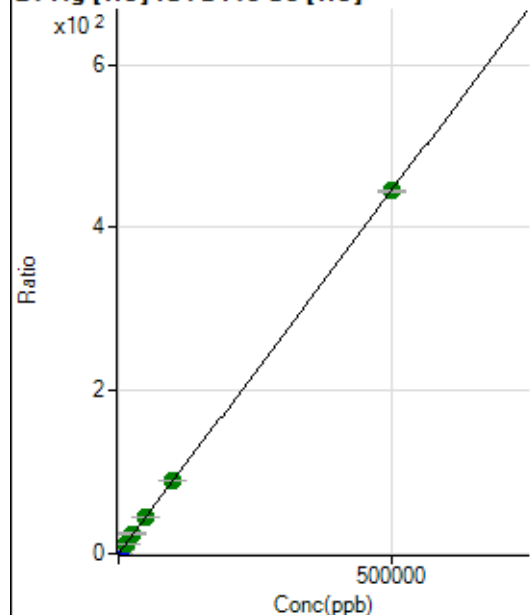
$$y = 0.0014 * x + 0.0364$$

$$R = 1.0000$$

$$DL = 0.6113$$

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	1790.12	0.0127	P	6.1
2	☐	500.000	548.712	68567.29	0.5013	P	9.7
3	☐	5000.000	5413.609	668918.25	4.8334	P	0.4
4	☐	12500.000	13024.580	1571280.71	11.6108	A	1.2
5	☐	25000.000	26935.037	3000142.80	23.9978	A	7.9
6	☐	50000.000	50507.773	5824848.59	44.9889	A	0.9
7	☐	100000.00	100504.37	11624911.91	89.5099	A	0.7
8	☐	500000.00	499734.29	58975309.12	445.0164	A	0.7

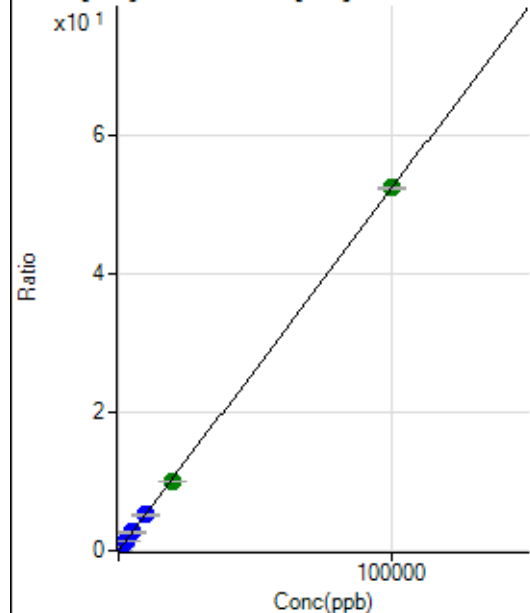
$$y = 8.9048\text{E-}004 * x + 0.0127$$

$$R = 1.0000$$

$$DL = 2.594$$

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	94.45	0.0007	P	11.1
2	☐	20.000	20.271	1542.32	0.0113	P	7.3
3	☐	1000.000	1037.506	75109.19	0.5427	P	1.6
4	☐	2500.000	2521.939	178397.47	1.3183	P	0.7
5	☐	5000.000	5250.570	343008.45	2.7438	P	8.0
6	☐	10000.000	9850.147	666348.70	5.1469	P	1.3
7	☐	20000.000	19146.144	1299208.50	10.0036	A	0.2
8	☐	100000.00	100172.30	6935706.42	52.3358	A	0.8

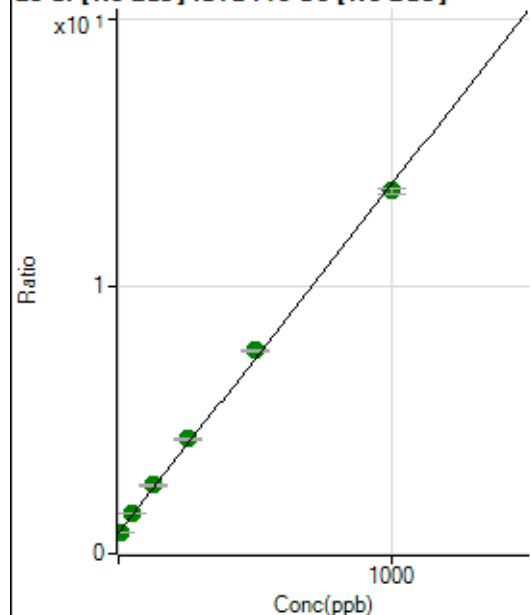
$$y = 5.2245\text{E-}004 * x + 6.6895\text{E-}004$$

$$R = 1.0000$$

$$DL = 0.426$$

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	1419425.28	0.7862	A	1.7
2	☐	10.000	1.193	1445579.86	0.8017	A	1.4
3	☐	50.000	53.790	2685078.07	1.4881	A	0.2
4	☐	125.000	137.175	4503829.48	2.5762	A	1.7
5	☐	250.000	269.197	7274205.66	4.2991	A	1.2
6	☐	500.000	524.286	12692019.25	7.6278	A	0.7
7	☐	1000.000	981.434	22970120.21	13.5934	A	1.7
8	☐			1391640.20	0.8219	A	3.6

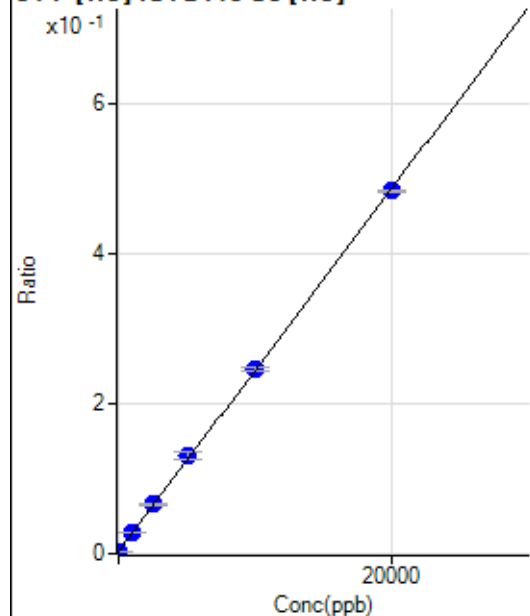
$$y = 0.0130 * x + 0.7862$$

$$R = 0.9992$$

$$DL = 3.161$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	-22.195	340.01	0.0024	P	6.6
2	☐	0.000	22.195	477.79	0.0035	P	3.4
3	☐	1000.000	1002.989	3757.17	0.0271	P	1.7
4	☐	2500.000	2585.408	8841.51	0.0653	P	0.6
5	☐	5000.000	5270.739	16269.85	0.1301	P	7.8
6	☐	10000.000	10058.644	31806.42	0.2457	P	1.4
7	☐	20000.000	19892.168	62725.58	0.4830	P	0.4
8	☐			362.23	0.0027	P	7.4

$$y = 2.4132E-005 * x + 0.0029$$

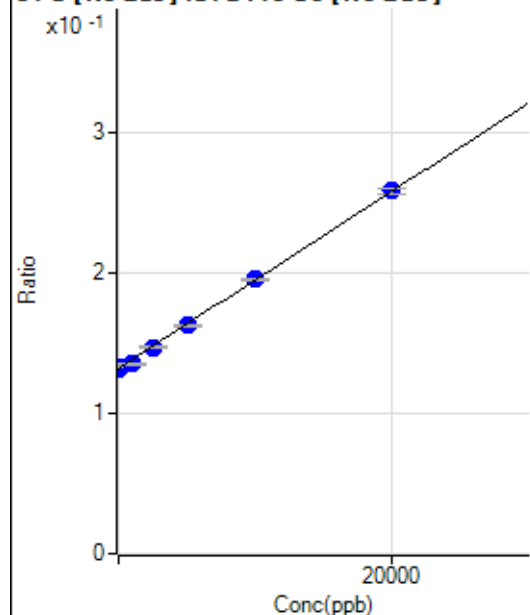
$$R = 0.9999$$

$$DL = 17.27$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	-66.407	237884.02	0.1318	P	0.4
2	☐	0.000	66.407	239063.15	0.1326	P	0.5
3	☐	1000.000	476.724	243899.09	0.1352	P	0.9
4	☐	2500.000	2377.807	257255.67	0.1471	P	1.3
5	☐	5000.000	4858.991	275412.80	0.1628	P	0.9
6	☐	10000.000	10043.470	325136.74	0.1954	P	0.4
7	☐	20000.000	20054.955	436685.27	0.2584	P	1.5
8	☐			221397.85	0.1307	P	2.1

$$y = 6.2951\text{E-}006 * x + 0.1322$$

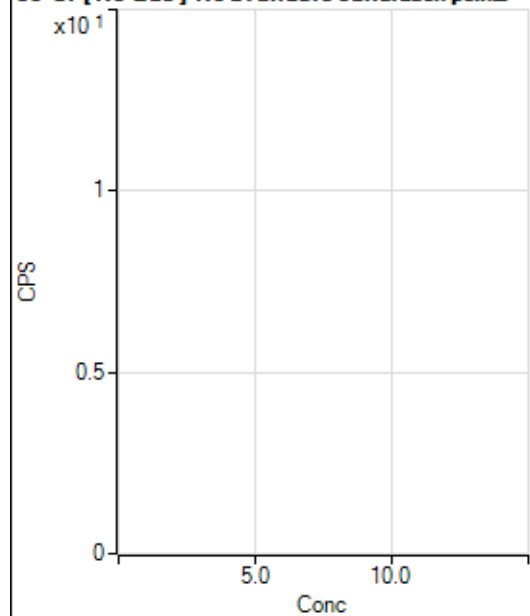
$$R = 0.9997$$

$$DL = 286.9$$

Weight: <None>

Min Conc: 0

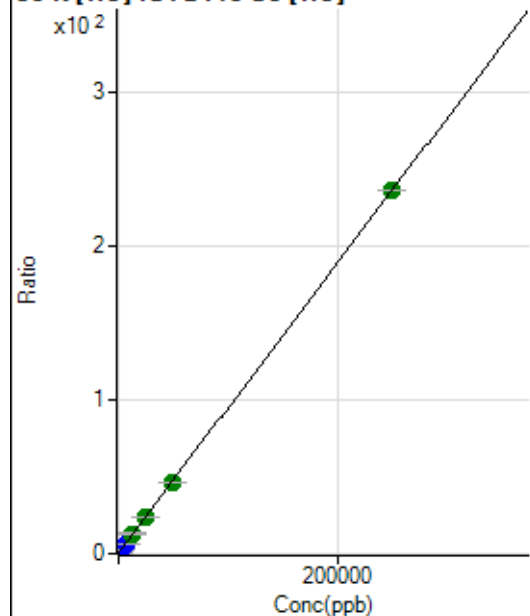
35 Cl [No Gas] No available calibration points



	R _j 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	71225.48	0.5046	P	0.6
2	☐	500.000	570.040	142454.58	1.0407	P	8.3
3	☐	2500.000	2689.457	419902.92	3.0341	P	0.1
4	☐	6250.000	6683.515	918977.36	6.7907	P	0.5
5	☐	12500.000	13064.963	1599372.01	12.7927	A	8.0
6	☐	25000.000	24511.115	3050087.98	23.5583	A	0.9
7	☐	50000.000	49000.916	6051028.87	46.5919	A	0.7
8	☐	250000.00	250207.58	31254462.59	235.8350	A	0.1

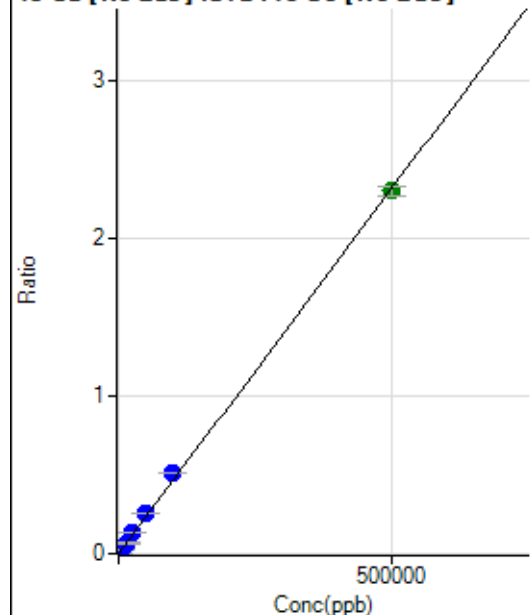
$$y = 9.4054\text{E-}004 * x + 0.5046$$

$$R = 1.0000$$

$$DL = 10.28$$

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	225.56	0.0001	P	11.6
2	☐	500.000	517.353	4545.17	0.0025	P	4.5
3	☐	5000.000	5851.314	49122.55	0.0272	P	0.8
4	☐	12500.000	14454.689	117256.13	0.0671	P	1.8
5	☐	25000.000	28221.381	221360.77	0.1308	P	2.1
6	☐	50000.000	56116.020	432667.79	0.2600	P	0.7
7	☐	100000.00	110388.69	864149.89	0.5114	P	1.5
8	☐	500000.00	497092.19	3898773.45	2.3024	A	2.5

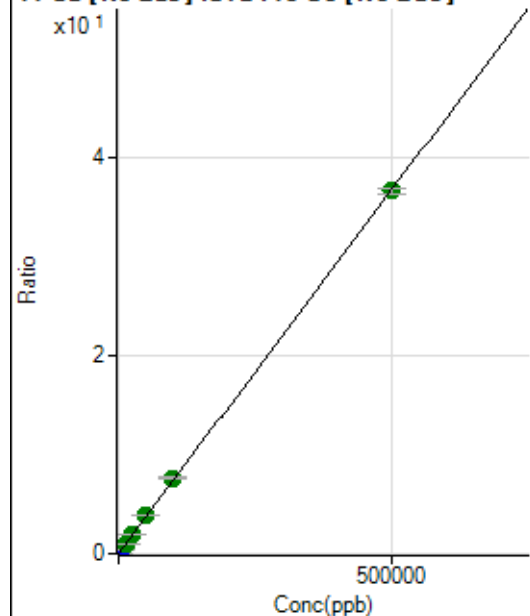
$$y = 4.6316\text{E-}006 * x + 1.2490\text{E-}004$$

$$R = 0.9997$$

$$DL = 9.403$$

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	26843.85	0.0149	P	2.3
2	☐	500.000	533.863	97366.30	0.0540	P	0.7
3	☐	5000.000	5682.134	778361.28	0.4314	P	1.2
4	☐	12500.000	13532.608	1760353.90	1.0069	A	1.9
5	☐	25000.000	26408.032	3300436.62	1.9507	A	2.2
6	☐	50000.000	52364.486	6411711.78	3.8535	A	1.1
7	☐	100000.00	103835.49	12887194.67	7.6266	A	1.8
8	☐	500000.00	498893.38	61954573.52	36.5867	A	1.8

$$y = 7.3306\text{E-}005 * x + 0.0149$$

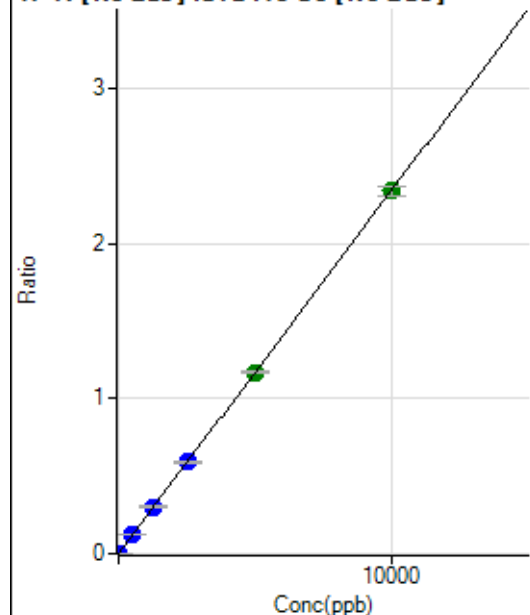
$$R = 1.0000$$

$$DL = 14.2$$

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	126.67	0.0001	P	9.7
2	☐	5.000	4.767	2139.06	0.0012	P	0.7
3	☐	500.000	511.027	216028.24	0.1197	P	2.0
4	☐	1250.000	1286.720	526884.34	0.3014	P	1.7
5	☐	2500.000	2519.322	998233.70	0.5900	P	2.3
6	☐	5000.000	4997.788	1947445.39	1.1704	A	1.1
7	☐	10000.000	9991.134	3953367.79	2.3397	A	2.6
8	☐			817.81	0.0005	P	6.0

$$y = 2.3417E-004 * x + 7.0181E-005$$

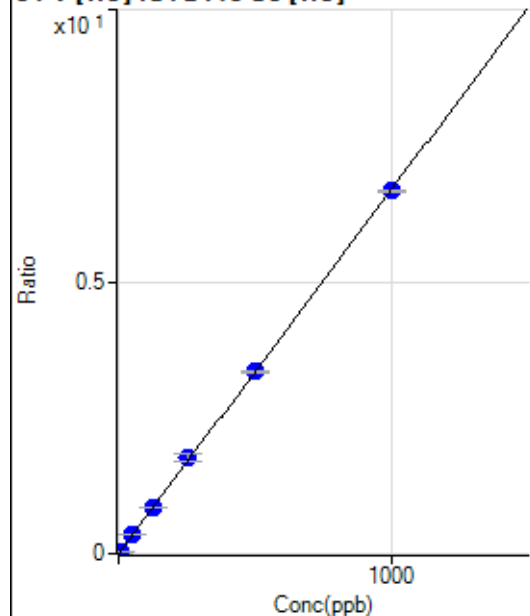
$$R = 1.0000$$

$$DL = 0.08687$$

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	15.55	0.0001	P	25.0
2	☐	5.000	5.205	4795.26	0.0350	P	5.3
3	☐	50.000	50.943	47236.93	0.3413	P	1.0
4	☐	125.000	126.969	115102.09	0.8505	P	0.2
5	☐	250.000	263.338	220582.32	1.7639	P	7.2
6	☐	500.000	500.283	433833.16	3.3509	P	1.3
7	☐	1000.000	996.229	866604.60	6.6727	P	0.4
8	☐			311.12	0.0023	P	2.1

$$y = 0.0067 * x + 1.1022E-004$$

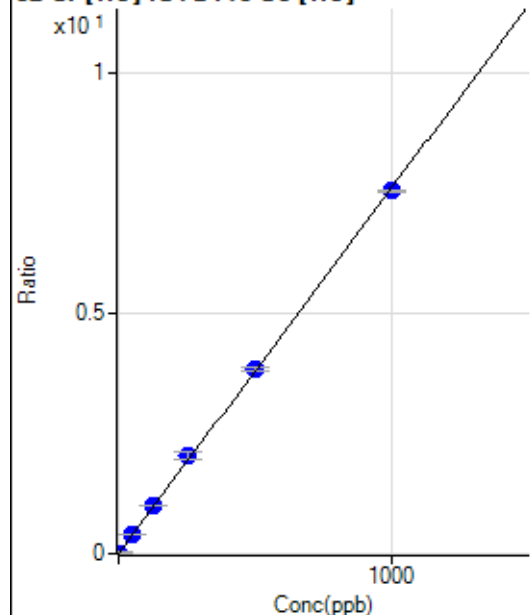
$$R = 0.9999$$

$$DL = 0.01235$$

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	325.56	0.0023	P	13.0
2	☐	2.000	2.204	2600.25	0.0190	P	12.7
3	☐	50.000	52.563	55557.34	0.4014	P	1.3
4	☐	125.000	129.541	133431.46	0.9860	P	0.6
5	☐	250.000	267.823	254524.39	2.0360	P	8.0
6	☐	500.000	504.642	496405.05	3.8343	P	1.8
7	☐	1000.000	992.527	979133.43	7.5391	P	0.3
8	☐			9152.85	0.0691	P	2.8

$$y = 0.0076 * x + 0.0023$$

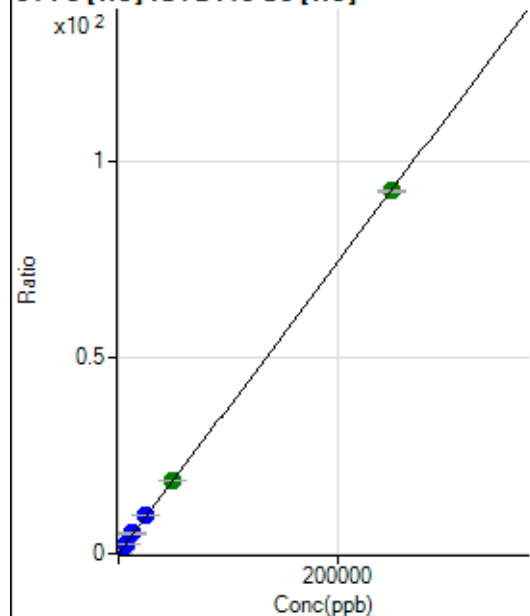
$$R = 0.9998$$

$$DL = 0.1181$$

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	1083.39	0.0077	P	7.5
2	☐	50.000	62.547	4225.08	0.0308	P	5.5
3	☐	2500.000	2758.519	142334.86	1.0285	P	0.9
4	☐	6250.000	6815.090	342326.36	2.5296	P	0.8
5	☐	12500.000	14153.684	655806.06	5.2453	P	7.7
6	☐	25000.000	26499.490	1270609.44	9.8138	P	0.8
7	☐	50000.000	50618.586	2433704.68	18.7391	A	0.5
8	☐	250000.00	249626.93	12243052.04	92.3822	A	0.2

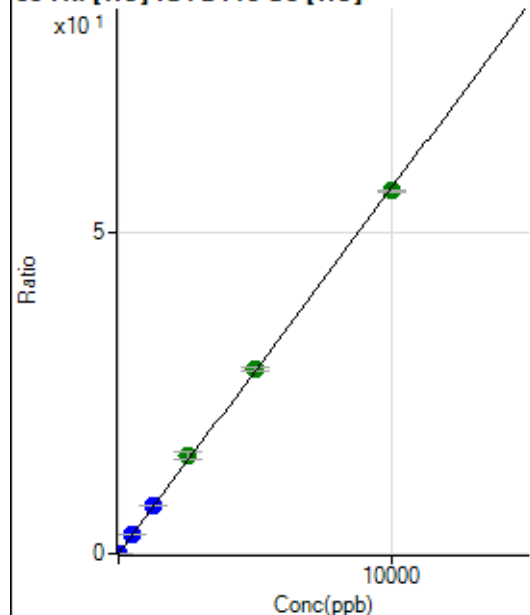
$$y = 3.7005E-004 * x + 0.0077$$

$$R = 1.0000$$

$$DL = 4.636$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	222.22	0.0016	P	13.7
2	☐	1.000	1.172	1123.39	0.0082	P	16.1
3	☐	500.000	528.253	416149.76	3.0070	P	0.7
4	☐	1250.000	1302.774	1003262.55	7.4135	P	0.7
5	☐	2500.000	2693.088	1915549.48	15.3236	A	8.3
6	☐	5000.000	5046.370	3717260.61	28.7123	A	1.4
7	☐	10000.000	9920.534	7330448.85	56.4433	A	0.7
8	☐			4705.23	0.0355	P	2.9

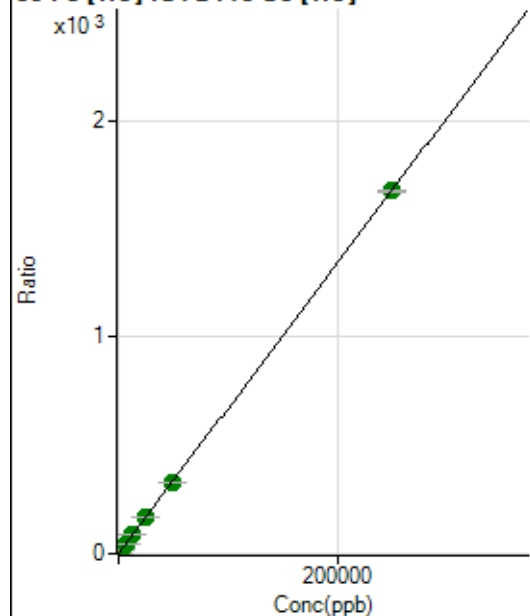
$$y = 0.0057 * x + 0.0016$$

$$R = 0.9998$$

$$DL = 0.1139$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	8041.47	0.0570	P	6.6
2	☐	50.000	57.322	60325.54	0.4410	P	9.6
3	☐	2500.000	2619.775	2436843.47	17.6081	A	0.8
4	☐	6250.000	6460.719	5865234.43	43.3403	A	0.7
5	☐	12500.000	13365.551	11201026.91	89.5990	A	8.0
6	☐	25000.000	24960.099	21656284.12	167.2763	A	1.7
7	☐	50000.000	49466.162	43047251.03	331.4538	A	0.5
8	☐	250000.00	250061.01	222022703.3	1,675.332	A	0.5

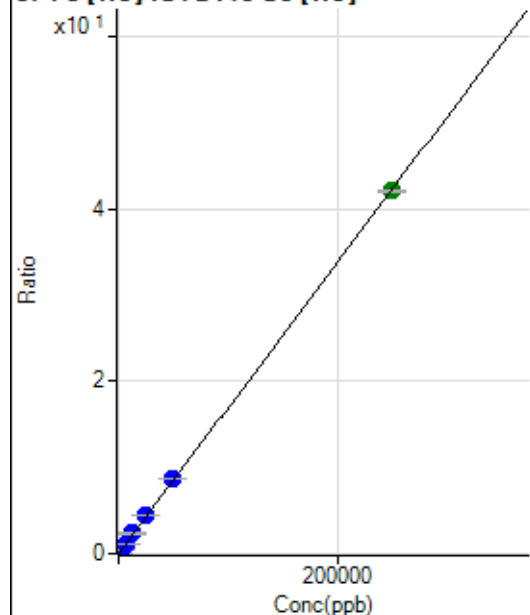
$$y = 0.0067 * x + 0.0570$$

$$R = 1.0000$$

$$DL = 1.694$$

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	302.23	0.0021	P	12.9
2	☐	50.000	59.469	1663.44	0.0122	P	10.1
3	☐	2500.000	2692.378	63069.27	0.4557	P	1.4
4	☐	6250.000	6726.931	153656.21	1.1354	P	0.4
5	☐	12500.000	13974.994	294628.13	2.3565	P	7.7
6	☐	25000.000	26092.482	569402.05	4.3979	P	0.9
7	☐	50000.000	51196.814	1120442.33	8.6272	P	0.7
8	☐	250000.00	249563.79	5572160.82	42.0459	A	0.3

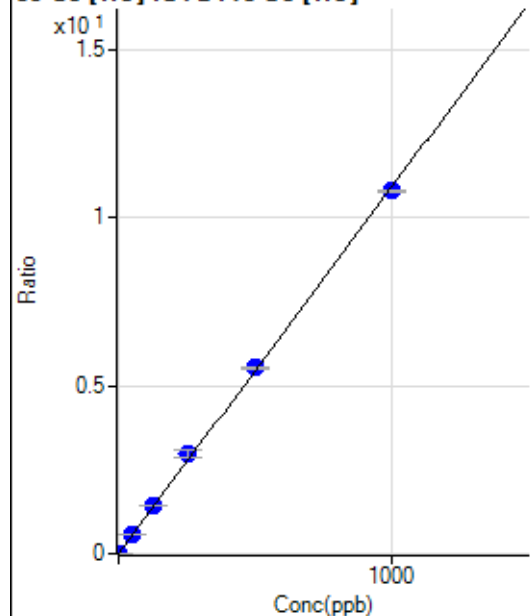
$$y = 1.6847E-004 * x + 0.0021$$

$$R = 1.0000$$

$$DL = 4.922$$

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	50.00	0.0004	P	6.8
2	☐	1.000	1.115	1710.11	0.0125	P	13.5
3	☐	50.000	53.111	80278.60	0.5801	P	0.8
4	☐	125.000	130.911	193423.40	1.4293	P	0.6
5	☐	250.000	270.567	369269.14	2.9536	P	7.8
6	☐	500.000	507.190	716781.68	5.5364	P	1.3
7	☐	1000.000	990.369	1403985.92	10.8104	P	0.4
8	☐			4205.08	0.0317	P	4.0

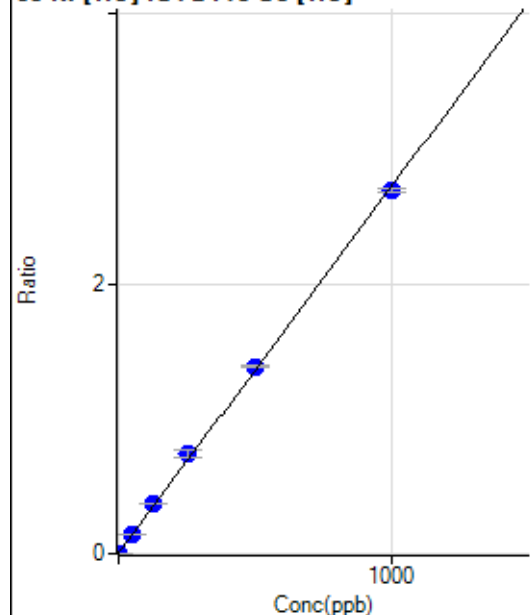
$$y = 0.0109 * x + 3.5422E-004$$

$$R = 0.9997$$

$$DL = 0.006615$$

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	347.79	0.0025	P	9.7
2	☐	1.000	1.117	754.47	0.0055	P	4.2
3	☐	50.000	53.685	20529.69	0.1483	P	0.8
4	☐	125.000	133.321	49359.77	0.3647	P	0.6
5	☐	250.000	273.109	93093.03	0.7446	P	7.7
6	☐	500.000	510.060	179760.83	1.3884	P	0.9
7	☐	1000.000	987.968	348972.69	2.6870	P	1.0
8	☐			3069.23	0.0232	P	2.2

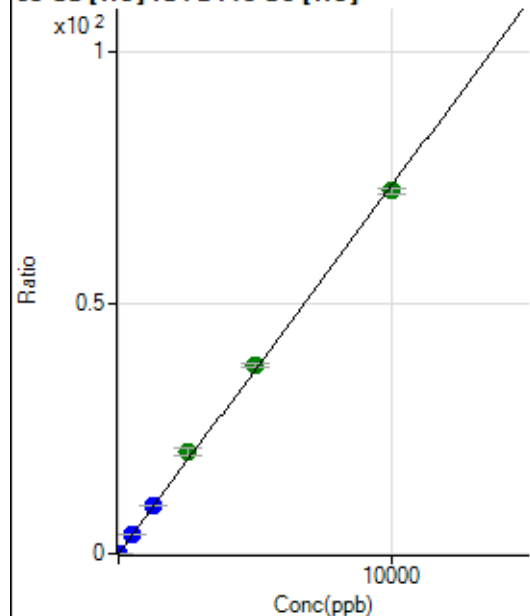
$$y = 0.0027 * x + 0.0025$$

$$R = 0.9996$$

$$DL = 0.2634$$

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	613.35	0.0043	P	4.5
2	☐	2.000	2.275	2884.75	0.0210	P	6.2
3	☐	500.000	537.361	546704.06	3.9503	P	0.7
4	☐	1250.000	1326.809	1319112.08	9.7474	P	0.3
5	☐	2500.000	2760.356	2534959.65	20.2743	A	7.6
6	☐	5000.000	5124.494	4872476.32	37.6347	A	1.2
7	☐	10000.000	9861.194	9405027.91	72.4174	A	1.4
8	☐			3400.43	0.0257	P	1.9

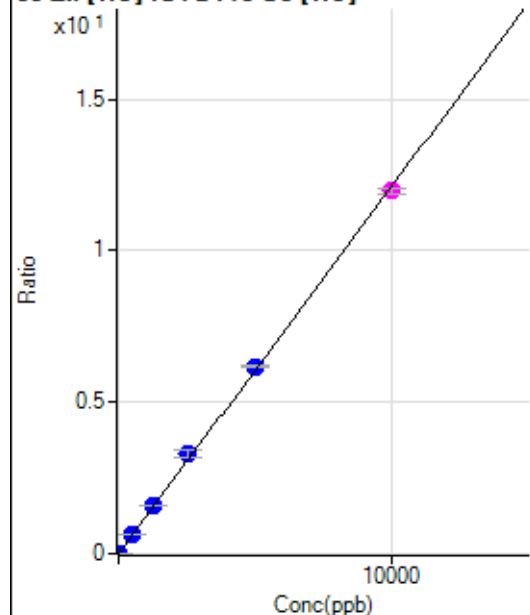
$$y = 0.0073 * x + 0.0043$$

$$R = 0.9995$$

$$DL = 0.08006$$

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	201.11	0.0014	P	8.2
2	☐	5.000	5.743	1152.28	0.0084	P	5.6
3	☐	500.000	532.702	89476.79	0.6465	P	0.6
4	☐	1250.000	1330.796	218291.29	1.6130	P	0.1
5	☐	2500.000	2729.161	413415.67	3.3065	P	7.6
6	☐	5000.000	5092.584	798627.47	6.1686	P	1.3
7	☐	10000.000	9884.683	1554824.77	11.9718	M	1.3
8	☐			655.58	0.0049	P	6.1

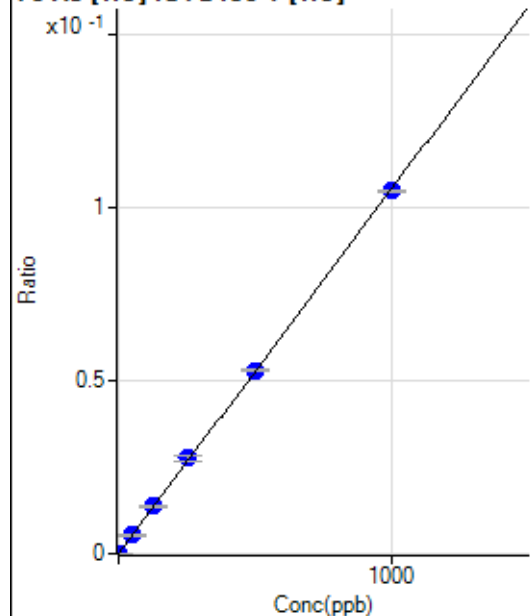
$$y = 0.0012 * x + 0.0014$$

$$R = 0.9996$$

$$DL = 0.2898$$

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	1.11	0.0000	P	173.
2	☐	1.000	0.981	113.33	0.0001	P	16.7
3	☐	50.000	50.680	5899.00	0.0053	P	2.9
4	☐	125.000	129.779	14781.89	0.0137	P	2.2
5	☐	250.000	261.734	27877.26	0.0275	P	7.4
6	☐	500.000	503.230	54826.25	0.0529	P	1.0
7	☐	1000.000	994.820	108814.88	0.1047	P	0.8
8	☐			94.44	0.0001	P	27.6

$$y = 1.0520E-004 * x + 9.8826E-007$$

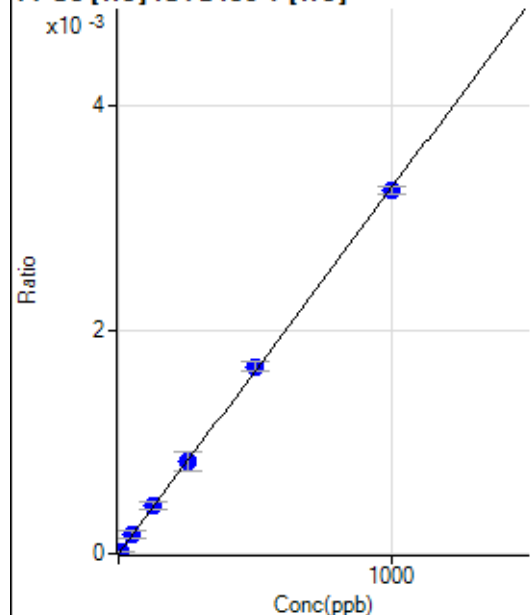
$$R = 0.9999$$

$$DL = 0.04881$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	0.00	0.0000	P	
2	☐	5.000	7.471	26.67	0.0000	P	8.2
3	☐	50.000	52.217	188.89	0.0002	P	32.6
4	☐	125.000	133.875	473.35	0.0004	P	16.0
5	☐	250.000	254.119	835.59	0.0008	P	20.2
6	☐	500.000	511.753	1731.23	0.0017	P	5.4
7	☐	1000.000	991.861	3369.30	0.0032	P	2.2
8	☐			0.00	0.0000	P	

$$y = 3.2671\text{E-}006 * x + 0.0000\text{E+}000$$

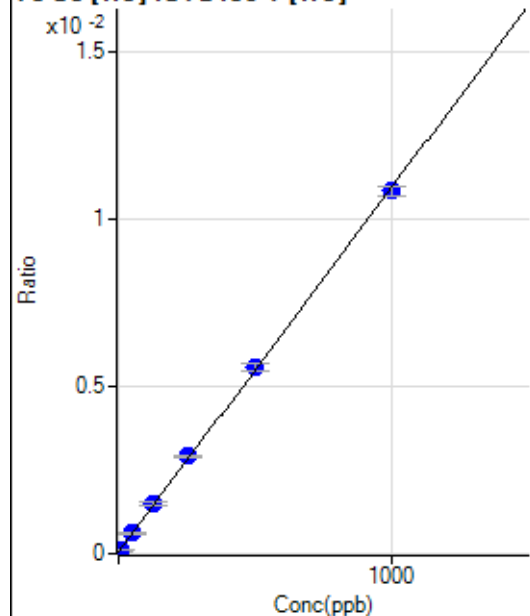
$$R = 0.9999$$

$$DL = 0$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	57.78	0.0001	P	26.5
2	☐	5.000	5.531	121.11	0.0001	P	19.8
3	☐	50.000	51.027	671.13	0.0006	P	2.6
4	☐	125.000	132.414	1615.66	0.0015	P	4.5
5	☐	250.000	263.613	2963.66	0.0029	P	2.0
6	☐	500.000	508.966	5790.07	0.0056	P	4.0
7	☐	1000.000	991.133	11267.70	0.0108	P	2.8
8	☐			57.78	0.0001	P	32.9

$$y = 1.0882\text{E-}005 * x + 5.1327\text{E-}005$$

$$R = 0.9998$$

$$DL = 3.747$$

Weight: <None>

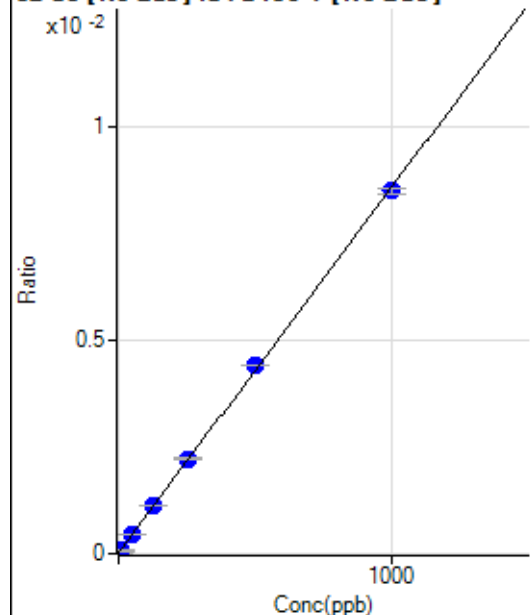
Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			15578.33		P	0.9
2	☐			15751.80		P	0.7
3	☐			15141.21		P	1.6
4	☐			14635.16		P	2.0
5	☐			14066.82		P	2.0
6	☐			13692.00		P	0.2
7	☐			13418.41		P	2.5
8	☐			14325.95		P	1.2

81 Br [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			32.22		P	46.6
2	☐			26.67		P	69.6
3	☐			34.44		P	36.6
4	☐			35.55		P	19.5
5	☐			27.78		P	42.1
6	☐			35.56		P	5.4
7	☐			30.00		P	22.2
8	☐			33.33		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	79.34	0.0000	P	12.0
2	☐	5.000	6.221	335.07	0.0001	P	7.2
3	☐	50.000	52.440	2219.48	0.0005	P	1.0
4	☐	125.000	129.581	5328.93	0.0011	P	1.8
5	☐	250.000	257.349	10060.70	0.0022	P	2.1
6	☐	500.000	513.346	19843.45	0.0044	P	0.0
7	☐	1000.000	990.789	38781.02	0.0085	P	1.8
8	☐			90.78	0.0000	P	19.6

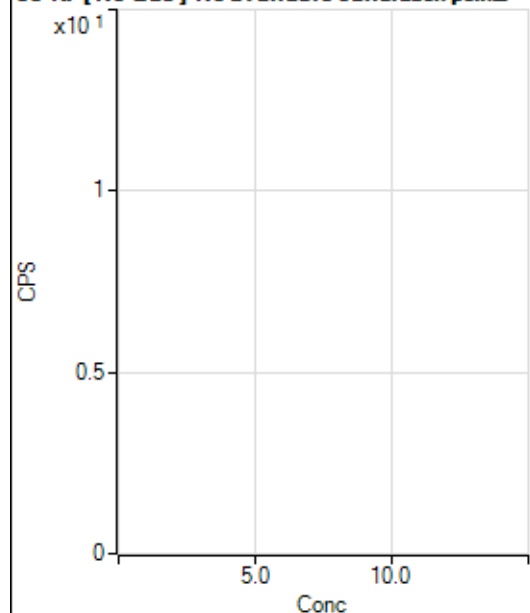
$$y = 8.5506E-006 * x + 1.6438E-005$$

$$R = 0.9998$$

$$DL = 0.6896$$

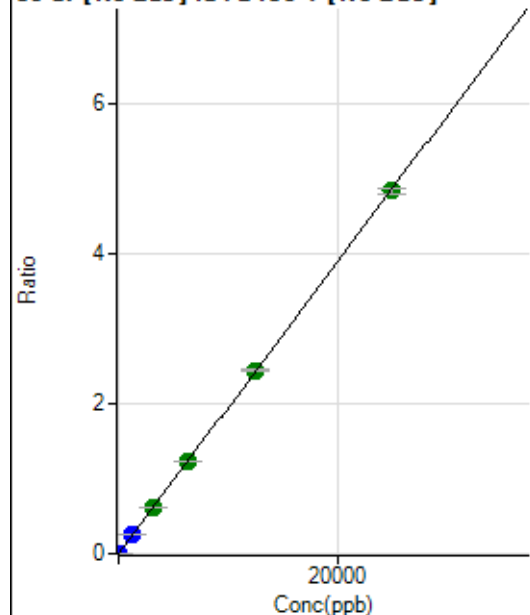
Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			40.00		P	8.3
2	☐			26.67		P	12.5
3	☐			25.55		P	65.7
4	☐			47.78		P	17.6
5	☐			52.22		P	13.3
6	☐			48.89		P	17.2
7	☐			62.22		P	31.4
8	☐			35.56		P	14.3

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	160.00	0.0000	P	22.4
2	☐	1.000	1.130	1215.62	0.0003	P	2.2
3	☐	1250.000	1268.804	1176158.87	0.2463	P	1.5
4	☐	3125.000	3200.721	2944459.82	0.6214	A	1.3
5	☐	6250.000	6356.186	5599634.64	1.2339	A	1.0
6	☐	12500.000	12604.671	11020453.58	2.4468	A	0.8
7	☐	25000.000	24910.713	22092987.72	4.8357	A	1.4
8	☐			3487.11	0.0008	P	2.3

$$y = 1.9412E-004 * x + 3.3146E-005$$

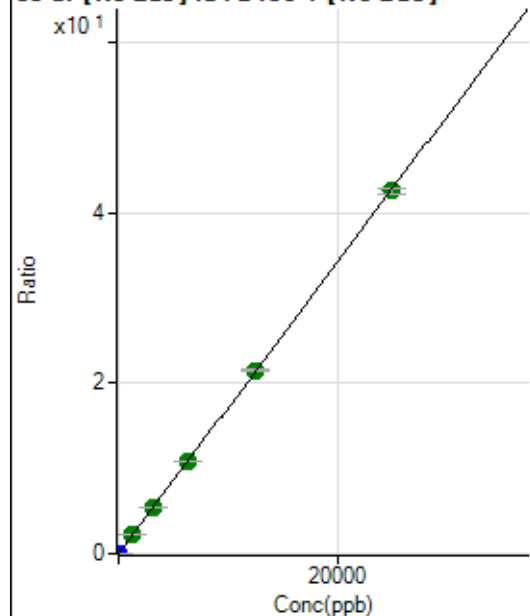
$$R = 1.0000$$

$$DL = 0.1147$$

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	886.70	0.0002	P	11.5
2	☐	1.000	1.019	9260.76	0.0019	P	2.9
3	☐	1250.000	1271.272	10373911.44	2.1727	A	1.8
4	☐	3125.000	3176.343	25724540.17	5.4284	A	1.0
5	☐	6250.000	6316.208	48986569.27	10.7942	A	0.6
6	☐	12500.000	12598.045	96967958.56	21.5294	A	0.6
7	☐	25000.000	24926.944	194623401.5	42.5987	A	1.3
8	☐			29799.06	0.0067	P	1.0

$$y = 0.0017 * x + 1.8370E-004$$

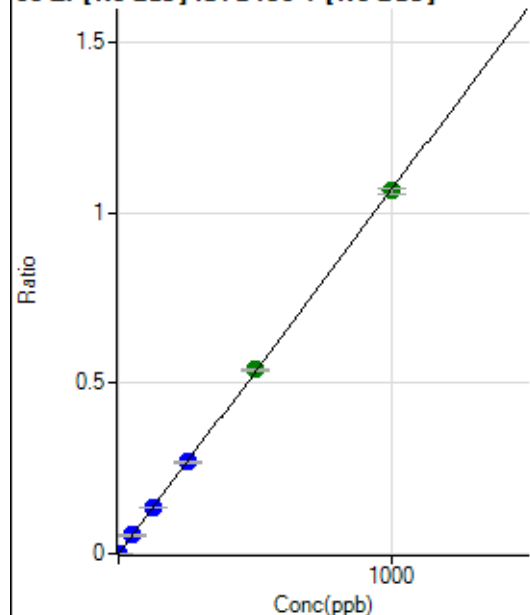
$$R = 1.0000$$

$$DL = 0.03698$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	192.23	0.0000	P	5.0
2	☐	1.000	0.934	4995.34	0.0010	P	1.7
3	☐	50.000	50.368	257097.63	0.0538	P	1.3
4	☐	125.000	126.139	638749.29	0.1348	P	1.3
5	☐	250.000	251.543	1219628.53	0.2687	P	1.4
6	☐	500.000	505.104	2430272.64	0.5396	A	0.9
7	☐	1000.000	996.901	4865607.71	1.0650	A	1.4
8	☐			2733.61	0.0006	P	2.8

$$y = 0.0011 * x + 3.9813E-005$$

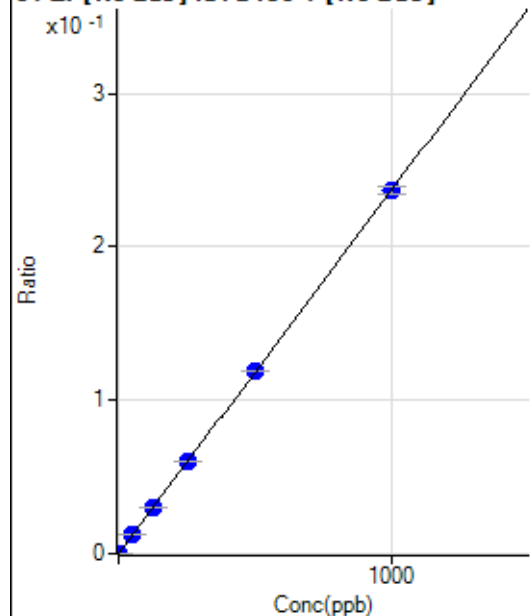
$$R = 1.0000$$

$$DL = 0.005584$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	38.89	0.0000	P	21.5
2	☐	1.000	0.915	1082.27	0.0002	P	4.7
3	☐	50.000	51.060	57787.56	0.0121	P	0.7
4	☐	125.000	127.195	142809.76	0.0301	P	1.2
5	☐	250.000	253.284	272302.20	0.0600	P	1.0
6	☐	500.000	501.417	534958.84	0.1188	P	0.5
7	☐	1000.000	998.143	1080189.97	0.2364	P	1.9
8	☐			552.24	0.0001	P	13.4

$$y = 2.3686E-004 * x + 8.0517E-006$$

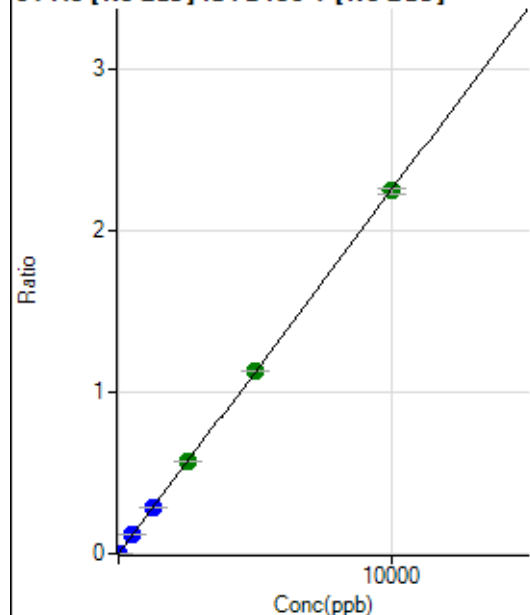
$$R = 1.0000$$

$$DL = 0.02196$$

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	117.78	0.0000	P	11.3
2	☐	5.000	5.524	6100.22	0.0013	P	1.3
3	☐	500.000	510.313	548494.74	0.1149	P	1.5
4	☐	1250.000	1263.035	1347196.01	0.2843	P	1.0
5	☐	2500.000	2540.615	2595020.78	0.5718	A	0.7
6	☐	5000.000	5023.268	5091967.01	1.1306	A	0.6
7	☐	10000.000	9976.067	10257892.63	2.2452	A	1.5
8	☐			4565.19	0.0010	P	1.1

$$y = 2.2506\text{E-}004 * x + 2.4401\text{E-}005$$

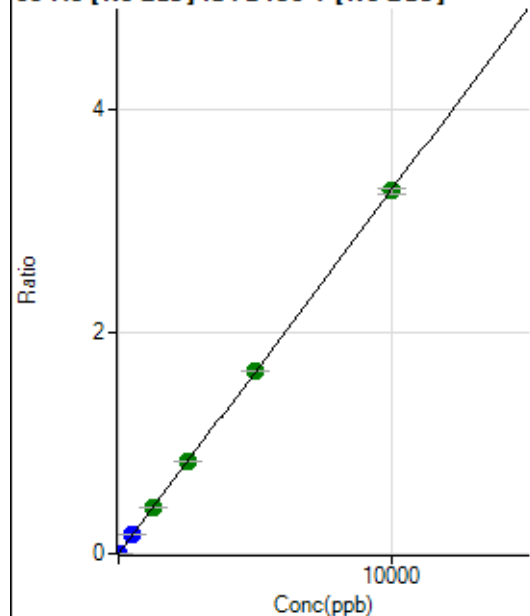
$$R = 1.0000$$

$$DL = 0.03691$$

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	236.67	0.0000	P	9.4
2	☐	5.000	4.661	7592.02	0.0016	P	0.8
3	☐	500.000	509.392	797855.17	0.1671	P	1.3
4	☐	1250.000	1251.068	1944553.45	0.4103	A	0.6
5	☐	2500.000	2538.531	3778266.47	0.8325	A	1.4
6	☐	5000.000	5020.547	7415742.74	1.6465	A	0.8
7	☐	10000.000	9979.491	14952165.19	3.2727	A	1.5
8	☐			6402.57	0.0014	P	5.0

$$y = 3.2794\text{E-}004 * x + 4.9014\text{E-}005$$

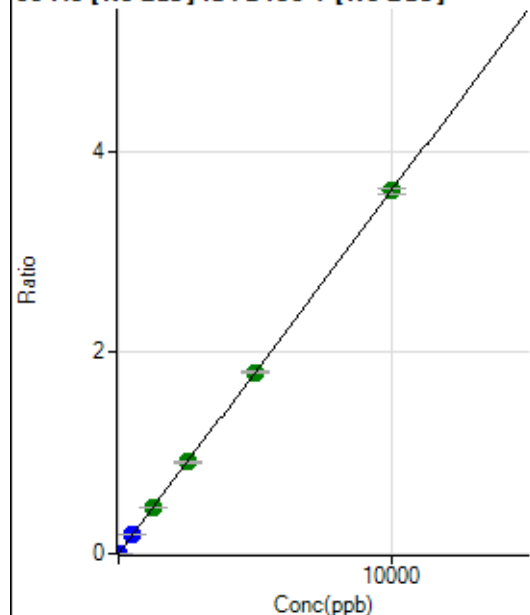
$$R = 1.0000$$

$$DL = 0.04233$$

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	46.67	0.0000	P	13.0
2	☐	5.000	4.803	8389.14	0.0017	P	1.9
3	☐	500.000	507.952	875387.00	0.1833	P	1.7
4	☐	1250.000	1264.086	2162146.20	0.4562	A	2.2
5	☐	2500.000	2523.319	4133033.93	0.9107	A	1.7
6	☐	5000.000	4991.328	8113742.52	1.8015	A	0.9
7	☐	10000.000	9996.348	16483506.70	3.6079	A	1.6
8	☐			7929.99	0.0018	P	1.9

$$y = 3.6092\text{E-}004 * x + 9.6690\text{E-}006$$

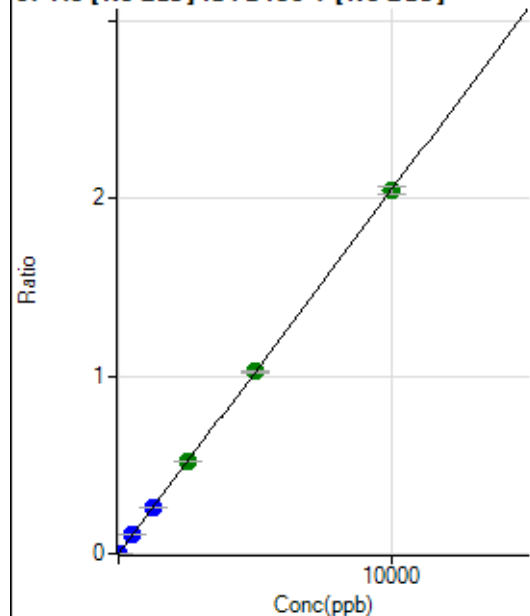
$$R = 1.0000$$

$$DL = 0.01044$$

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	50.00	0.0000	P	6.8
2	☐	5.000	4.687	4671.89	0.0010	P	3.6
3	☐	500.000	514.605	503454.99	0.1054	P	1.5
4	☐	1250.000	1264.479	1227760.91	0.2591	P	0.7
5	☐	2500.000	2546.261	2367507.55	0.5217	A	1.4
6	☐	5000.000	5017.791	4630301.08	1.0281	A	1.1
7	☐	10000.000	9976.999	9338876.53	2.0441	A	2.0
8	☐			3853.88	0.0009	P	7.5

$$y = 2.0488\text{E-}004 * x + 1.0354\text{E-}005$$

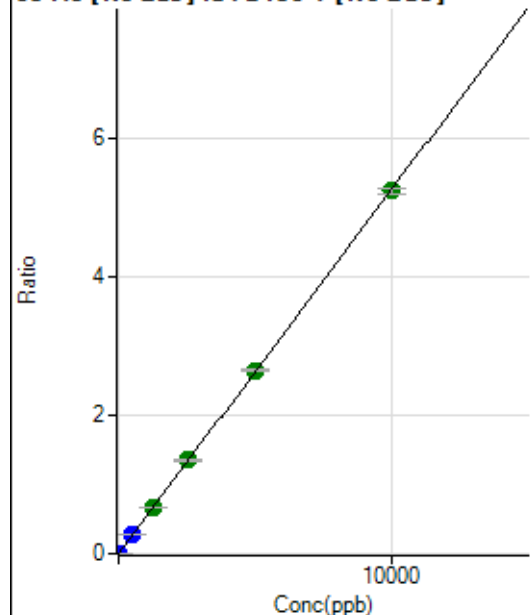
$$R = 1.0000$$

$$DL = 0.01027$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	25.56	0.0000	P	19.4
2	☐	5.000	4.582	11633.60	0.0024	P	1.5
3	☐	500.000	516.223	1297599.90	0.2718	P	1.1
4	☐	1250.000	1274.184	3178675.19	0.6708	A	1.4
5	☐	2500.000	2566.151	6130709.14	1.3509	A	0.8
6	☐	5000.000	5029.282	11924636.07	2.6476	A	0.9
7	☐	10000.000	9964.987	23966956.31	5.2458	A	1.5
8	☐			9975.70	0.0022	P	2.3

$$y = 5.2643\text{E-}004 * x + 5.2884\text{E-}006$$

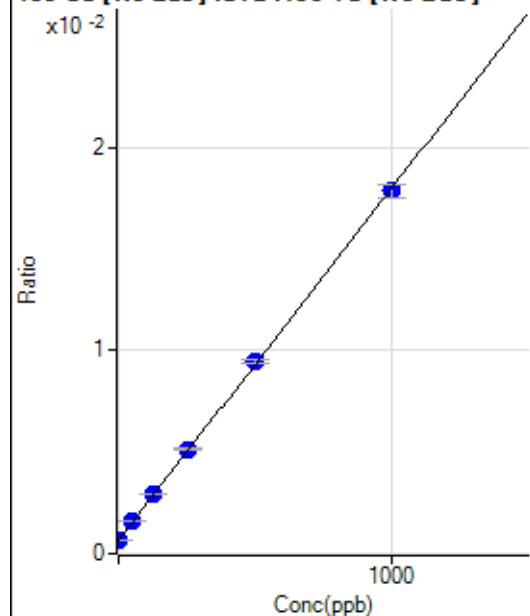
$$R = 1.0000$$

$$DL = 0.005845$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	3449.33	0.0007	P	5.2
2	☐	1.000	-0.018	3459.34	0.0007	P	4.0
3	☐	50.000	54.200	8249.09	0.0016	P	2.3
4	☐	125.000	130.103	15041.21	0.0029	P	2.2
5	☐	250.000	258.177	25761.80	0.0051	P	0.9
6	☐	500.000	507.886	47117.21	0.0095	P	1.3
7	☐	1000.000	993.166	89941.66	0.0179	P	3.4
8	☐			3115.92	0.0007	P	1.3

$$y = 1.7327\text{E-}005 * x + 6.7286\text{E-}004$$

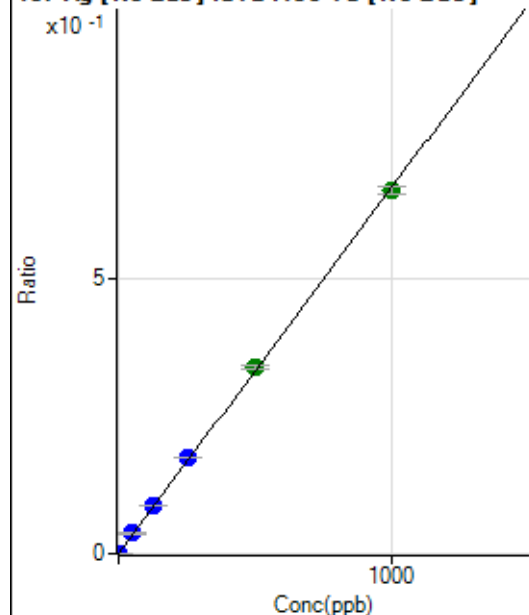
$$R = 0.9999$$

$$DL = 6.047$$

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	68.89	0.0000	P	10.7
2	☐	1.000	1.000	3483.79	0.0007	P	5.5
3	☐	50.000	55.172	187525.13	0.0366	P	1.5
4	☐	125.000	133.617	455916.65	0.0887	P	0.6
5	☐	250.000	261.731	869942.47	0.1738	P	0.4
6	☐	500.000	508.445	1678983.85	0.3376	A	1.7
7	☐	1000.000	991.509	3311512.90	0.6583	A	2.1
8	☐			538.91	0.0001	P	6.1

$$y = 6.6393\text{E-}004 * x + 1.3444\text{E-}005$$

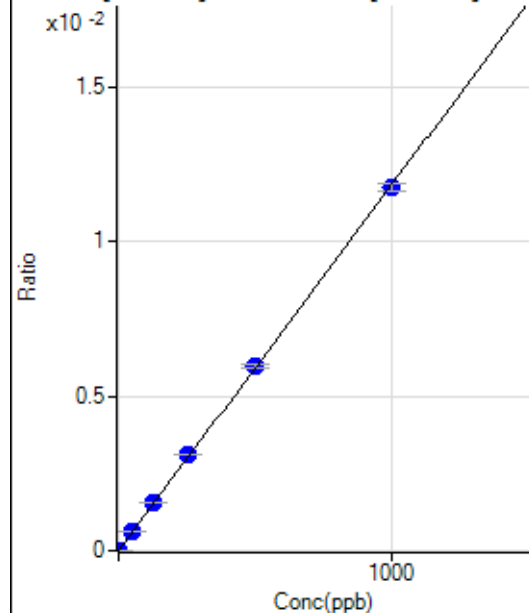
$$R = 0.9999$$

$$DL = 0.006488$$

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	10.00	0.0000	P	32.9
2	☐	1.000	0.968	68.89	0.0000	P	2.8
3	☐	50.000	54.137	3287.07	0.0006	P	2.2
4	☐	125.000	131.387	7995.59	0.0016	P	1.4
5	☐	250.000	264.087	15646.30	0.0031	P	0.3
6	☐	500.000	506.076	29779.47	0.0060	P	2.2
7	☐	1000.000	992.435	59058.41	0.0117	P	2.2
8	☐			92.22	0.0000	P	13.2

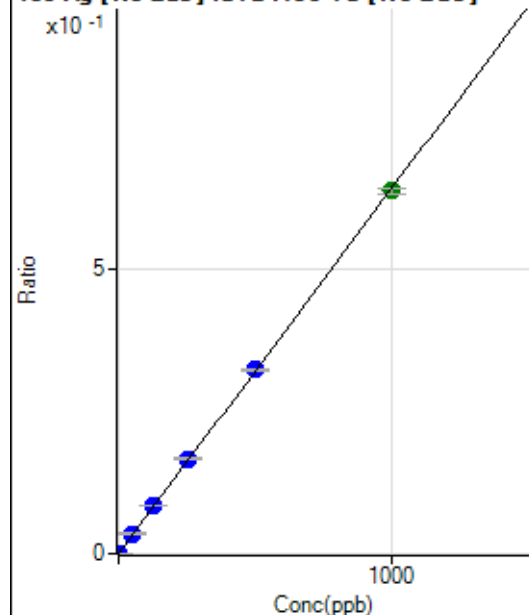
$$y = 1.1828\text{E-}005 * x + 1.9487\text{E-}006$$

$$R = 0.9999$$

$$DL = 0.1628$$

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	12.22	0.0000	P	41.5
2	☐	1.000	1.036	3422.66	0.0007	P	1.5
3	☐	50.000	54.831	179533.04	0.0351	P	2.2
4	☐	125.000	133.737	439697.46	0.0856	P	0.6
5	☐	250.000	260.347	833861.45	0.1666	P	1.2
6	☐	500.000	504.199	1604451.68	0.3226	P	1.0
7	☐	1000.000	993.980	3199411.55	0.6360	A	1.3
8	☐			485.57	0.0001	P	1.3

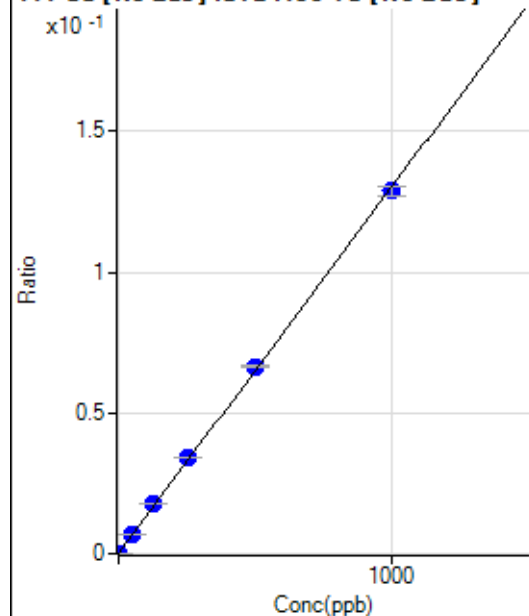
$$y = 6.3981\text{E-}004 * x + 2.3844\text{E-}006$$

$$R = 0.9999$$

$$DL = 0.004643$$

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	342.38	0.0001	P	5.0
2	☐	1.000	1.072	1059.96	0.0002	P	6.8
3	☐	50.000	53.869	36177.23	0.0071	P	2.0
4	☐	125.000	134.662	90296.53	0.0176	P	0.3
5	☐	250.000	261.155	170280.79	0.0340	P	0.5
6	☐	500.000	511.166	330825.15	0.0665	P	1.0
7	☐	1000.000	990.227	647854.57	0.1288	P	2.6
8	☐			432.60	0.0001	P	3.0

$$y = 1.3000\text{E-}004 * x + 6.6786\text{E-}005$$

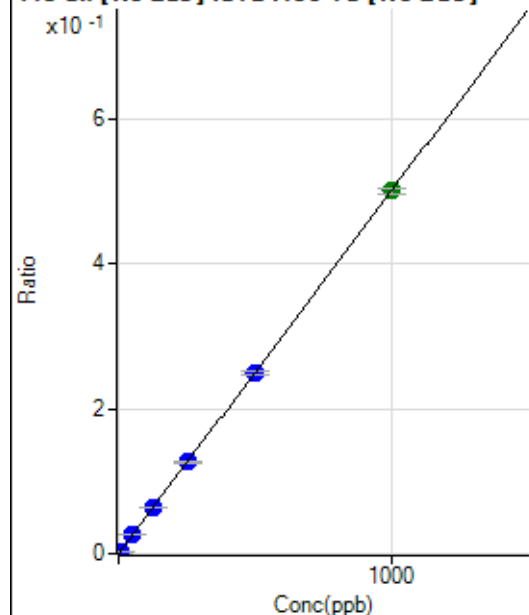
$$R = 0.9998$$

$$DL = 0.07768$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	601.13	0.0001	P	4.9
2	☐	5.000	5.080	13673.22	0.0027	P	0.5
3	☐	50.000	51.880	133412.77	0.0261	P	1.8
4	☐	125.000	127.515	328391.08	0.0639	P	1.0
5	☐	250.000	252.467	632820.26	0.1264	P	1.3
6	☐	500.000	498.242	1240225.75	0.2494	P	1.3
7	☐	1000.000	999.853	2516806.20	0.5003	A	1.7
8	☐			1922.37	0.0004	P	4.9

$$y = 5.0026\text{E-}004 * x + 1.1724\text{E-}004$$

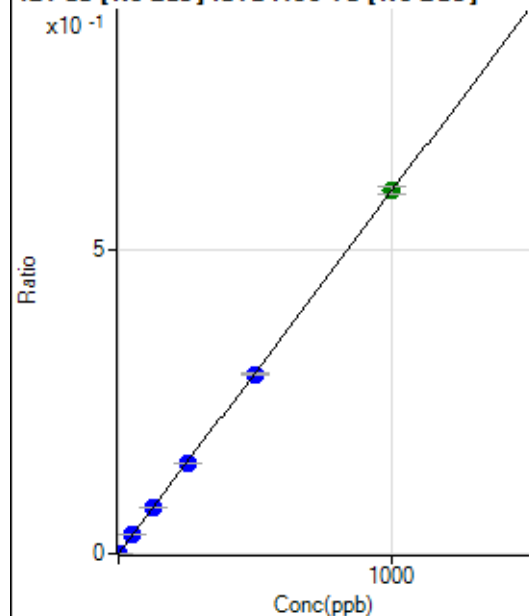
$$R = 1.0000$$

$$DL = 0.03441$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	17.78	0.0000	P	65.5
2	☐	2.000	1.996	6153.58	0.0012	P	2.9
3	☐	50.000	51.538	157630.91	0.0308	P	2.0
4	☐	125.000	127.391	391215.64	0.0761	P	1.0
5	☐	250.000	250.629	749799.16	0.1498	P	1.1
6	☐	500.000	496.242	1474938.36	0.2966	P	1.9
7	☐	1000.000	1001.346	3010333.64	0.5984	A	2.3
8	☐			2245.76	0.0005	P	4.9

$$y = 5.9761\text{E-}004 * x + 3.4596\text{E-}006$$

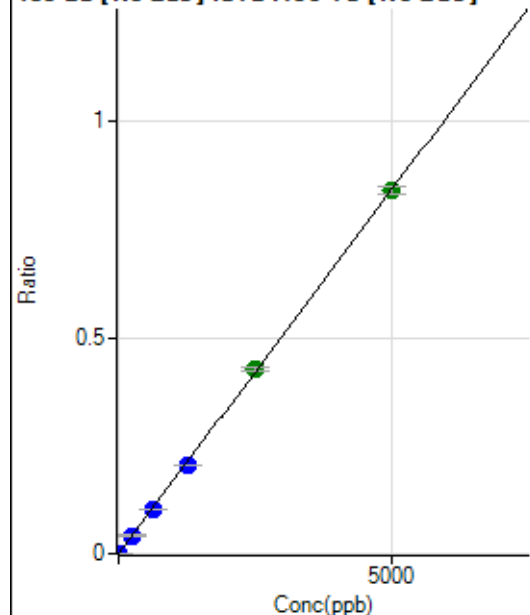
$$R = 1.0000$$

$$DL = 0.01137$$

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	27.78	0.0000	P	30.8
2	☐	10.000	9.939	8620.45	0.0017	P	0.6
3	☐	250.000	250.886	215843.20	0.0422	P	1.2
4	☐	625.000	617.874	533702.94	0.1039	P	0.4
5	☐	1250.000	1223.044	1029134.39	0.2056	P	0.6
6	☐	2500.000	2537.896	2121688.04	0.4266	A	1.5
7	☐	5000.000	4988.638	4218182.54	0.8385	A	2.2
8	☐			1775.68	0.0004	P	0.8

$$y = 1.6809E-004 * x + 5.4248E-006$$

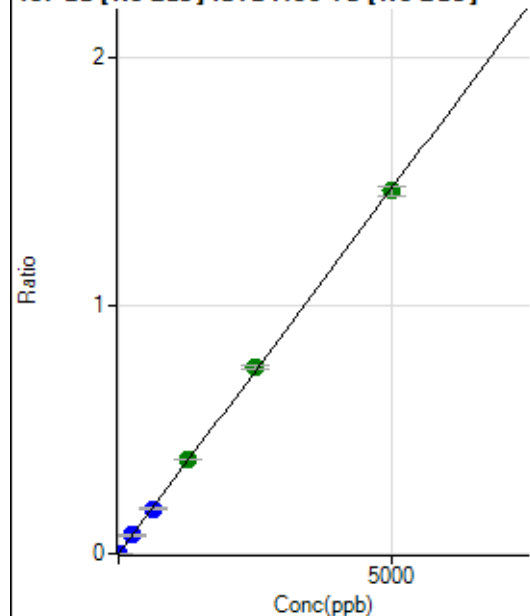
$$R = 0.9999$$

$$DL = 0.0298$$

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	45.55	0.0000	P	14.9
2	☐	10.000	9.934	15064.75	0.0029	P	1.6
3	☐	250.000	251.899	378983.39	0.0741	P	1.7
4	☐	625.000	618.195	933849.28	0.1817	P	0.6
5	☐	1250.000	1290.484	1899031.40	0.3794	A	0.9
6	☐	2500.000	2543.343	3718379.91	0.7477	A	2.1
7	☐	5000.000	4968.963	7347742.46	1.4607	A	2.4
8	☐			3174.83	0.0007	P	5.8

$$y = 2.9396E-004 * x + 8.8836E-006$$

$$R = 0.9999$$

$$DL = 0.01351$$

Weight: <None>

Min Conc: 0

150 Nd [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			6.67		P	0.0
2	☐			6.67		P	100.
3	☐			77.78		P	13.1
4	☐			174.45		P	9.6
5	☐			338.90		P	6.3
6	☐			604.47		P	8.9
7	☐			1186.73		P	4.6
8	☐			68.89		P	17.0

150 Nd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			3.33		P	100.
2	☐			2.22		P	173.
3	☐			21.11		P	24.1
4	☐			35.56		P	28.6
5	☐			58.89		P	13.1
6	☐			94.45		P	13.4
7	☐			203.34		P	14.0
8	☐			50.00		P	33.3

156 Dy [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			5.55		P	69.3
2	☐			7.78		P	65.5
3	☐			20.00		P	60.1
4	☐			33.33		P	10.0
5	☐			68.89		P	7.4
6	☐			117.78		P	10.7
7	☐			223.34		P	15.1
8	☐			192.22		P	8.2

156 Dy [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			3.33		P	0.0
2	☐			5.56		P	34.7
3	☐			4.44		P	43.4
4	☐			30.00		P	38.5
5	☐			51.11		P	50.7
6	☐			113.34		P	18.4
7	☐			226.67		P	8.2
8	☐			110.00		P	0.0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			20.00		P	86.6
2	☐			20.00		P	28.9
3	☐			22.22		P	17.3
4	☐			33.33		P	52.9
5	☐			31.11		P	32.7
6	☐			46.67		P	25.8
7	☐			106.67		P	28.6
8	☐			156.67		P	16.9

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			167.78		P	9.2
2	☐			165.56		P	14.3
3	☐			161.12		P	21.9
4	☐			177.78		P	18.2
5	☐			171.11		P	25.4
6	☐			168.89		P	2.3
7	☐			186.67		P	1.8
8	☐			247.78		P	1.6

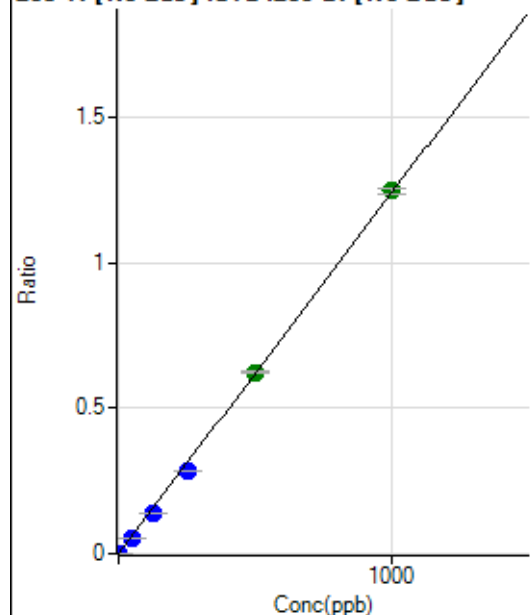
164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			20.00		P	16.7
2	☐			42.22		P	32.9
3	☐			44.44		P	11.5
4	☐			55.56		P	18.3
5	☐			51.11		P	19.9
6	☐			65.56		P	42.3
7	☐			125.56		P	29.2
8	☐			154.45		P	19.9

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			24.45		P	28.4
2	☐			17.78		P	54.1
3	☐			30.00		P	29.4
4	☐			14.44		P	13.4
5	☐			47.78		P	52.4
6	☐			47.78		P	14.5
7	☐			60.00		P	20.0
8	☐			94.45		P	20.7

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	40.00	0.0000	P	29.3
2	☐	1.000	0.870	4116.22	0.0011	P	0.8
3	☐	50.000	44.980	207505.55	0.0558	P	0.8
4	☐	125.000	113.058	523552.72	0.1403	P	0.6
5	☐	250.000	228.218	1014251.14	0.2833	P	0.5
6	☐	500.000	502.566	2126868.13	0.6238	A	0.7
7	☐	1000.000	1005.906	4176233.06	1.2485	A	1.2
8	☐			553.35	0.0002	P	15.6

$$y = 0.0012 * x + 1.0755E-005$$

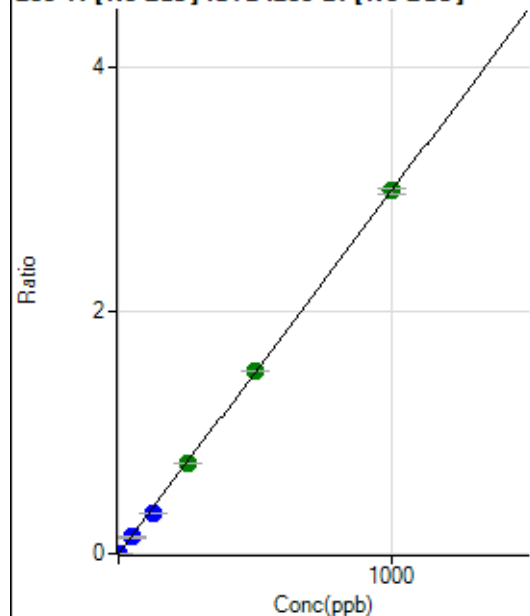
$$R = 0.9997$$

$$DL = 0.007609$$

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	112.22	0.0000	P	12.3
2	☐	1.000	0.862	9840.30	0.0026	P	3.1
3	☐	50.000	45.160	501681.09	0.1350	P	0.7
4	☐	125.000	113.152	1261684.32	0.3382	P	1.1
5	☐	250.000	250.033	2675768.71	0.7473	A	0.2
6	☐	500.000	503.520	5131159.92	1.5049	A	0.6
7	☐	1000.000	999.955	9996596.52	2.9887	A	1.4
8	☐			1278.96	0.0004	P	3.0

$$y = 0.0030 * x + 3.0255E-005$$

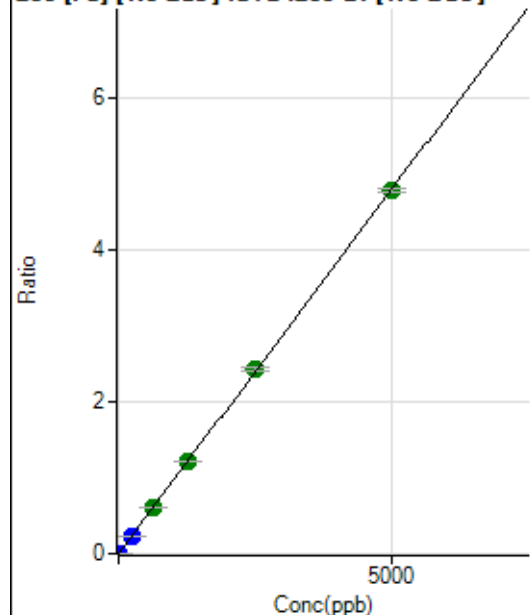
$$R = 0.9999$$

$$DL = 0.003739$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	287.79	0.0001	P	22.9
2	☐	1.000	0.933	3666.09	0.0010	P	2.8
3	☐	250.000	234.807	835737.03	0.2249	P	0.7
4	☐	625.000	635.169	2268957.24	0.6082	A	1.2
5	☐	1250.000	1264.756	4336034.07	1.2110	A	0.7
6	☐	2500.000	2527.886	8252477.86	2.4204	A	2.4
7	☐	5000.000	4981.857	15954704.62	4.7699	A	1.2
8	☐			7089.70	0.0024	P	0.4

$$y = 9.5744\text{E-}004 * x + 7.7626\text{E-}005$$

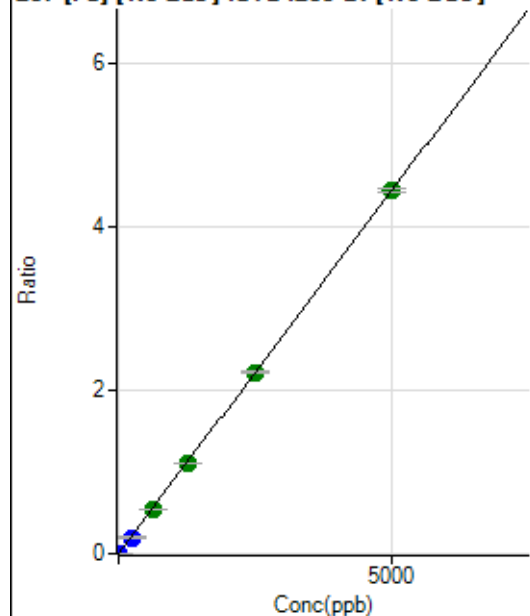
$$R = 1.0000$$

$$DL = 0.05575$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	250.01	0.0001	P	7.4
2	☐	1.000	0.859	3134.84	0.0008	P	4.0
3	☐	250.000	224.594	741450.56	0.1995	P	0.8
4	☐	625.000	616.099	2041469.88	0.5472	A	0.4
5	☐	1250.000	1254.939	3990588.31	1.1145	A	0.2
6	☐	2500.000	2501.858	7575520.51	2.2219	A	1.4
7	☐	5000.000	5000.219	14852913.67	4.4405	A	0.9
8	☐			6420.46	0.0022	P	3.1

$$y = 8.8806\text{E-}004 * x + 6.7360\text{E-}005$$

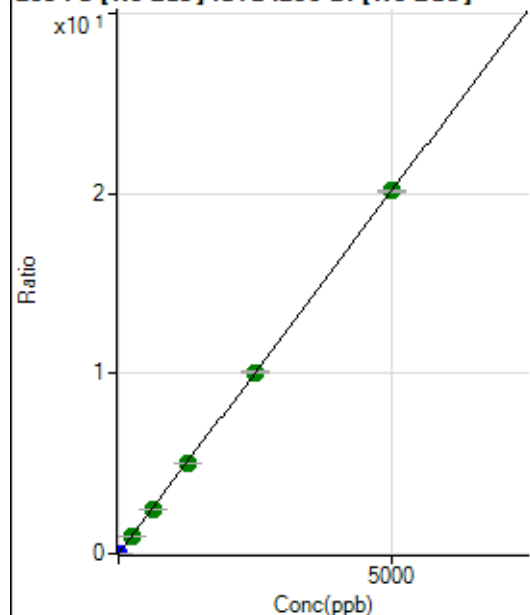
$$R = 1.0000$$

$$DL = 0.01688$$

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	1160.04	0.0003	P	9.6
2	☐	1.000	0.891	14724.42	0.0039	P	1.0
3	☐	250.000	236.799	3545559.94	0.9541	A	0.7
4	☐	625.000	617.990	9287119.89	2.4894	A	0.7
5	☐	1250.000	1243.360	17932233.90	5.0082	A	1.0
6	☐	2500.000	2499.228	34322220.60	10.0665	A	1.4
7	☐	5000.000	5003.582	67409504.69	20.1533	A	0.8
8	☐			29673.23	0.0101	P	1.2

$$y = 0.0040 * x + 3.1268E-004$$

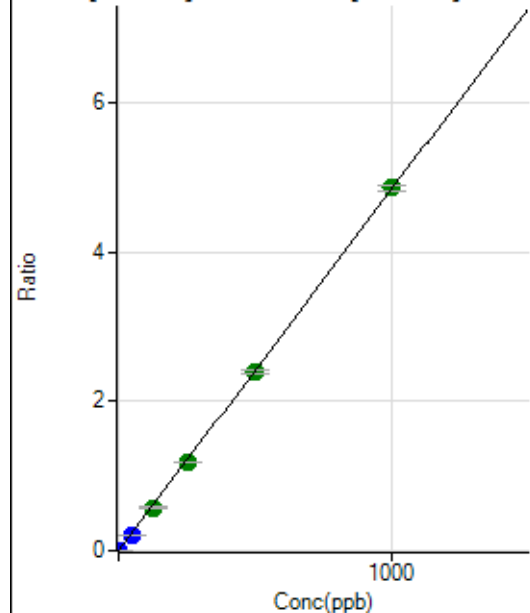
$$R = 1.0000$$

$$DL = 0.02232$$

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	27.78	0.0000	P	18.1
2	☐	1.000	0.816	14913.99	0.0039	P	1.1
3	☐	50.000	42.688	766804.73	0.2063	P	0.4
4	☐	125.000	119.264	2150361.32	0.5765	A	1.6
5	☐	250.000	244.237	4226896.05	1.1805	A	0.4
6	☐	500.000	495.729	8169536.55	2.3961	A	1.4
7	☐	1000.000	1004.659	16242685.73	4.8560	A	1.7
8	☐			844.48	0.0003	P	6.8

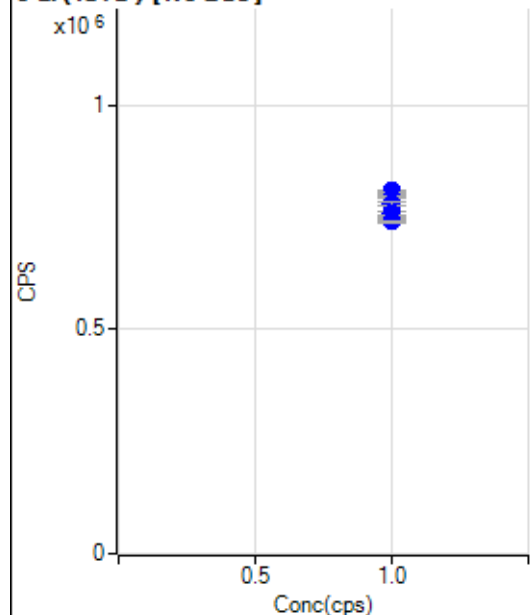
$$y = 0.0048 * x + 7.4810E-006$$

$$R = 1.0000$$

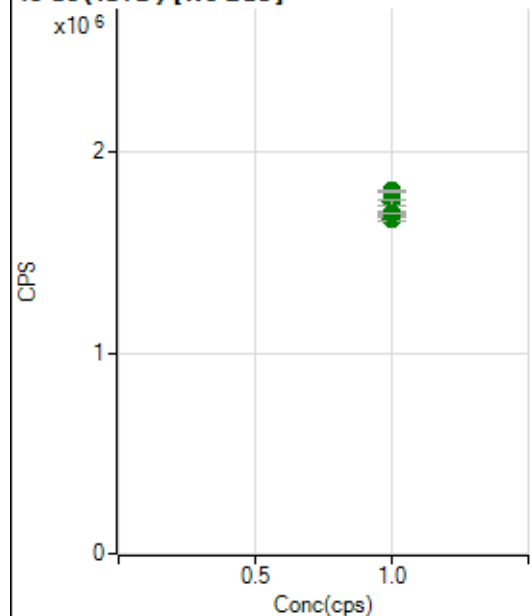
$$DL = 0.0008388$$

Weight: <None>

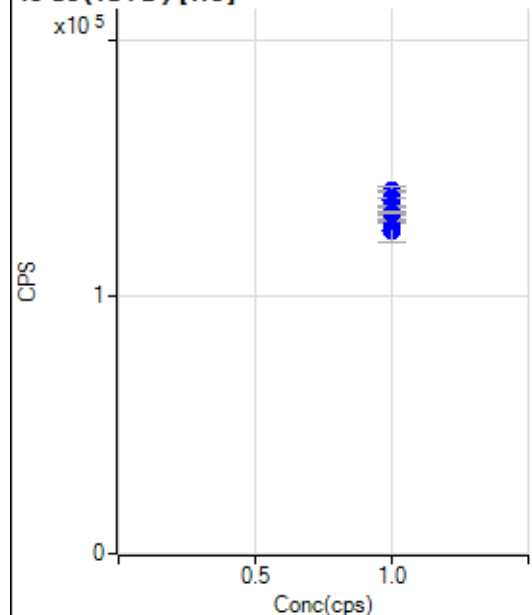
Min Conc: 0

6 Li (ISTD) [No Gas]

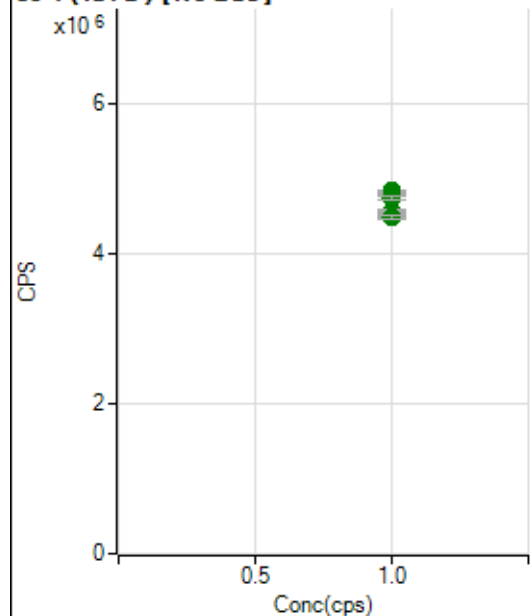
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		809104.44		P	0.6
2	☐	1.000		802960.00		P	0.5
3	☐	1.000		795330.93		P	1.0
4	☐	1.000		779956.64		P	0.9
5	☐	1.000		760344.14		P	0.9
6	☐	1.000		747887.66		P	0.4
7	☐	1.000		754423.72		P	0.3
8	☐	1.000		740557.32		P	0.6

45 Sc (ISTD) [No Gas]

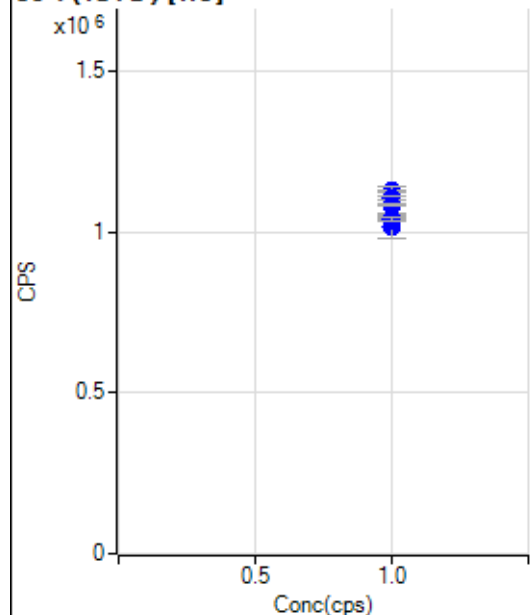
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1805460.39		A	0.6
2	☐	1.000		1802976.53		A	0.7
3	☐	1.000		1804347.37		A	0.7
4	☐	1.000		1748521.66		A	1.5
5	☐	1.000		1692186.35		A	1.2
6	☐	1.000		1663970.37		A	0.8
7	☐	1.000		1689943.57		A	0.9
8	☐	1.000		1693361.85		A	0.5

45 Sc (ISTD) [He]

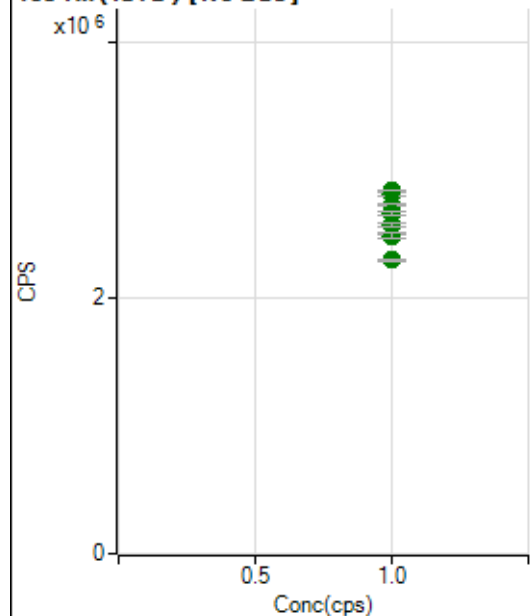
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		141162.14		P	0.3
2	☐	1.000		137481.53		P	7.9
3	☐	1.000		138394.47		P	0.3
4	☐	1.000		135330.73		P	0.4
5	☐	1.000		125444.24		P	6.5
6	☐	1.000		129478.01		P	1.0
7	☐	1.000		129873.83		P	0.2
8	☐	1.000		132526.39		P	0.5

89 Y (ISTD) [No Gas]

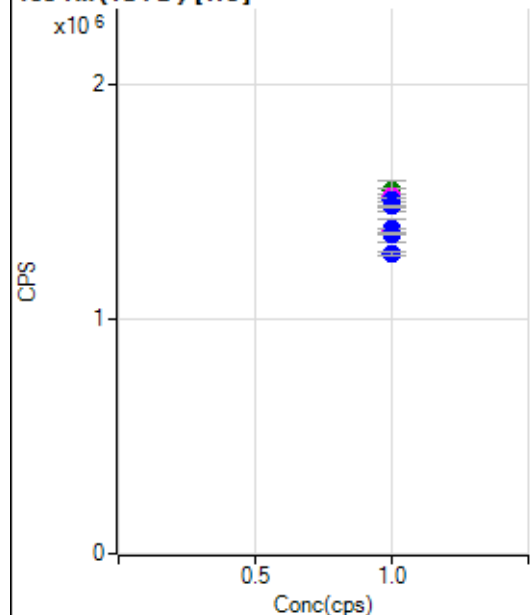
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4829266.35		A	0.7
2	☐	1.000		4812746.97		A	0.4
3	☐	1.000		4775078.47		A	0.8
4	☐	1.000		4739116.32		A	0.8
5	☐	1.000		4538286.53		A	0.3
6	☐	1.000		4503862.16		A	0.6
7	☐	1.000		4568901.64		A	0.4
8	☐	1.000		4477936.56		A	1.6

89 Y(ISTD) [He]

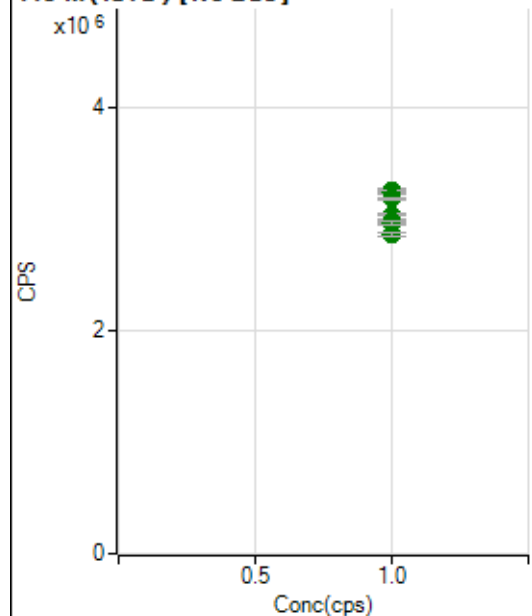
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1126764.14		P	0.7
2	☐	1.000		1097303.98		P	7.8
3	☐	1.000		1106249.43		P	0.9
4	☐	1.000		1082590.81		P	0.3
5	☐	1.000		1015865.51		P	6.9
6	☐	1.000		1035667.51		P	0.6
7	☐	1.000		1039752.46		P	0.2
8	☐	1.000		1038703.76		P	1.3

103 Rh(ISTD) [No Gas]

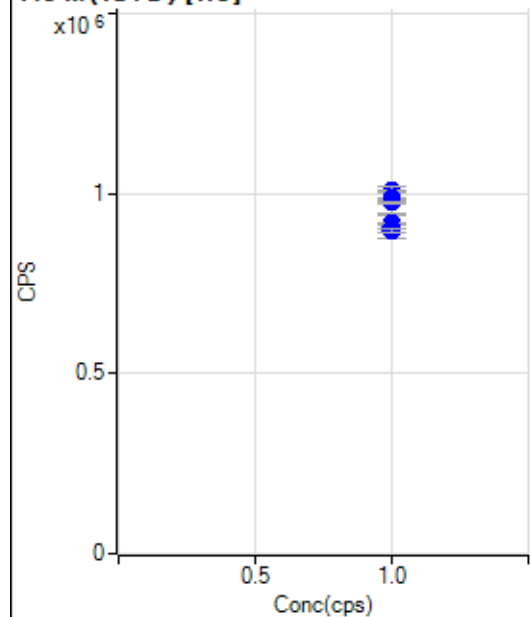
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2810533.46		A	1.1
2	☐	1.000		2834283.57		A	0.1
3	☐	1.000		2724937.29		A	0.7
4	☐	1.000		2660740.13		A	1.4
5	☐	1.000		2571418.55		A	1.2
6	☐	1.000		2479903.84		A	0.8
7	☐	1.000		2485430.50		A	1.4
8	☐	1.000		2291096.25		A	0.0

103 Rh (ISTD) [He]

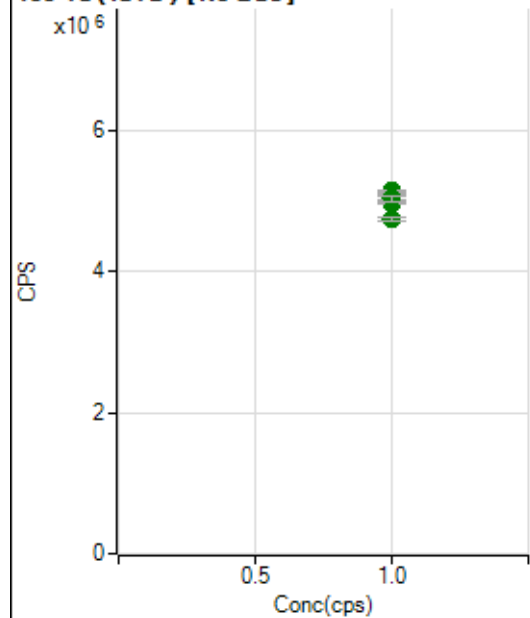
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1543809.35		A	1.6
2	☐	1.000		1520865.79		M	8.4
3	☐	1.000		1508364.70		P	1.0
4	☐	1.000		1478430.83		P	0.4
5	☐	1.000		1378189.20		M	7.2
6	☐	1.000		1381697.67		P	0.4
7	☐	1.000		1360813.55		P	0.2
8	☐	1.000		1277630.26		P	1.3

115 In (ISTD) [No Gas]

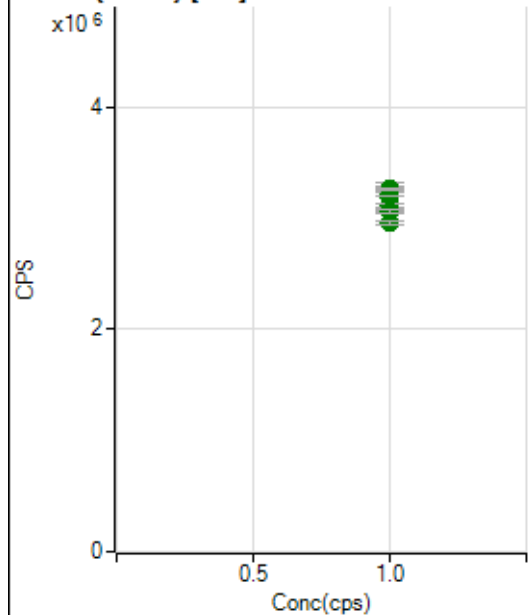
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3247924.77		A	0.9
2	☐	1.000		3252374.69		A	1.2
3	☐	1.000		3242193.19		A	1.2
4	☐	1.000		3182084.57		A	0.7
5	☐	1.000		3037166.23		A	0.4
6	☐	1.000		2980381.25		A	0.7
7	☐	1.000		2964933.15		A	1.2
8	☐	1.000		2867170.93		A	1.3

115 In (ISTD) [He]

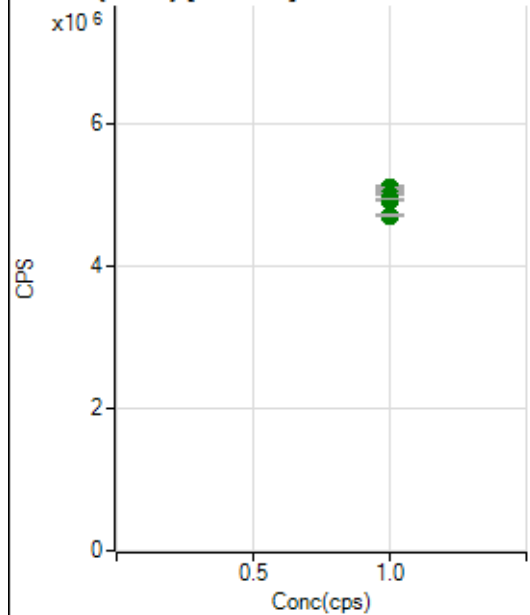
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1008531.28		P	0.5
2	☐	1.000		983669.50		P	7.9
3	☐	1.000		987886.28		P	0.5
4	☐	1.000		975649.29		P	0.3
5	☐	1.000		908510.27		P	7.1
6	☐	1.000		917162.38		P	0.4
7	☐	1.000		901441.16		P	0.1
8	☐	1.000		896692.30		P	1.1

159 Tb (ISTD) [No Gas]

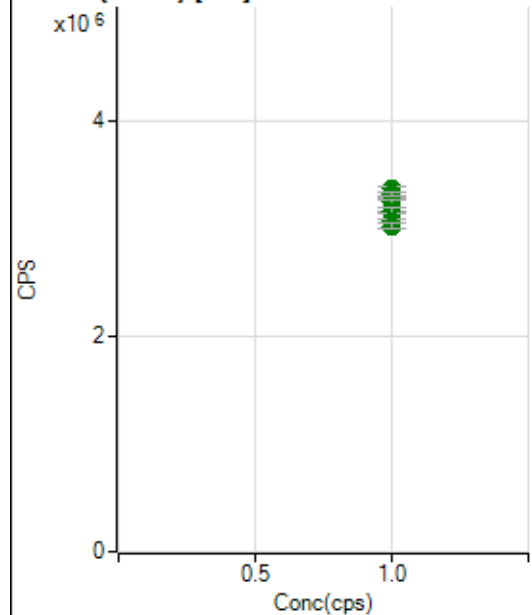
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5126396.28		A	0.6
2	☐	1.000		5143101.56		A	0.7
3	☐	1.000		5118009.23		A	1.0
4	☐	1.000		5138520.03		A	0.2
5	☐	1.000		5005873.02		A	0.2
6	☐	1.000		4973795.65		A	0.7
7	☐	1.000		5031190.62		A	1.2
8	☐	1.000		4753291.11		A	1.1

159 Tb (ISTD) [He]

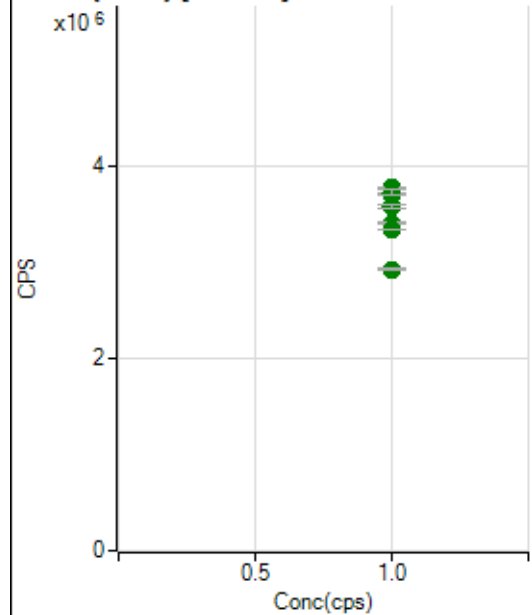
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3262954.36		A	1.9
2	☐	1.000		3189980.65		A	7.9
3	☐	1.000		3216988.32		A	1.4
4	☐	1.000		3262591.30		A	0.6
5	☐	1.000		3090249.78		A	7.3
6	☐	1.000		3112550.61		A	1.0
7	☐	1.000		3060037.56		A	1.0
8	☐	1.000		2960187.77		A	1.1

165 Ho (ISTD) [No Gas]

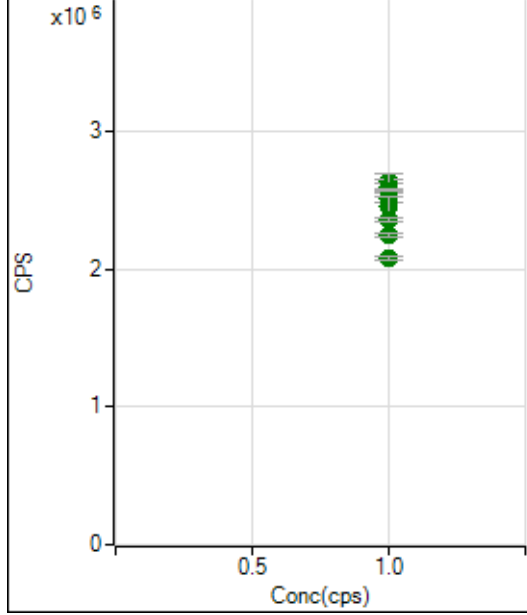
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5093315.83		A	1.6
2	☐	1.000		5102154.65		A	0.9
3	☐	1.000		5074017.70		A	0.9
4	☐	1.000		5096092.67		A	0.5
5	☐	1.000		5009813.54		A	0.5
6	☐	1.000		4928522.53		A	0.8
7	☐	1.000		4949199.51		A	0.5
8	☐	1.000		4717958.99		A	0.6

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3369721.96		A	1.5
2	☐	1.000		3281307.73		A	7.0
3	☐	1.000		3246104.78		A	2.8
4	☐	1.000		3322255.09		A	0.6
5	☐	1.000		3155787.94		A	6.8
6	☐	1.000		3166681.96		A	1.7
7	☐	1.000		3071506.76		A	1.3
8	☐	1.000		3023366.38		A	1.7

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3712333.48		A	1.0
2	☐	1.000		3775934.98		A	0.3
3	☐	1.000		3716197.62		A	0.7
4	☐	1.000		3730717.44		A	1.2
5	☐	1.000		3580510.33		A	0.9
6	☐	1.000		3409553.59		A	0.2
7	☐	1.000		3344800.57		A	0.4
8	☐	1.000		2927776.62		A	0.4

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2634343.57		A	1.2
2	☐	1.000		2592912.13		A	7.8
3	☐	1.000		2519021.38		A	2.7
4	☐	1.000		2575730.92		A	0.6
5	☐	1.000		2451493.80		A	6.7
6	☐	1.000		2359970.59		A	1.0
7	☐	1.000		2245125.14		A	1.0
8	☐	1.000		2078422.73		A	1.4

US EPA Tune Check Report

Operator Name Jaswal

Acq/Data Batch D:\Agilent\ICPMH\1\DATA\IP7072524-MS.b

Acq. Date-Time 2024-07-25 10:59:50

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		5089	50890.23			1.252	5.000
24		46939	469387.43			1.287	5.000
25		6136	61357.97			0.980	5.000
26		6992	69917.46			1.223	5.000
59		40721	407212.64			0.982	5.000
113		6033	60325.02			0.990	5.000
115		75918	759181.13			0.920	5.000
206		23158	231582.21			0.900	5.000
207		21472	214721.63			1.071	5.000
208		50370	503695.54			1.052	5.000
220		0	1.00			70.711	

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

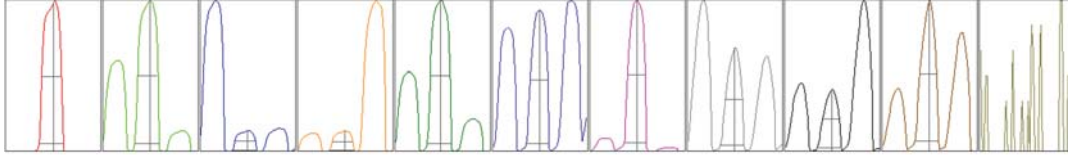
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	5130	5105	4980	5093	5137
24	46955	46943	45950	47500	47346
25	6158	6111	6044	6168	6198
26	7000	6987	6854	7035	7082
59	40845	40905	40008	40920	40928
113	6022	6056	5933	6083	6068
115	76106	76436	74706	76333	76010
206	23148	23144	22834	23272	23393
207	21456	21550	21086	21593	21676
208	50185	50683	49516	50717	50746

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	8602.42	9.05	8.90 - 9.10	
24	75603.46	24.00	23.90 - 24.10	
25	9886.25	25.00	24.90 - 25.10	
26	11123.58	26.00	25.90 - 26.10	
59	67437.75	58.95	58.90 - 59.10	
113	11241.16	113.00	112.90 - 113.10	
115	141469.46	115.00	114.90 - 115.10	
206	44759.55	206.00	205.90 - 206.10	
207	41108.85	207.00	206.90 - 207.10	
208	99184.52	208.00	207.90 - 208.10	
220	0.00	220.10	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.61	0.770	0.900	
24	0.64	0.783	0.900	
25	0.65	0.757	0.900	
26	0.65	0.782	0.900	
59	0.63	0.780	0.900	
113	0.54	0.723	0.900	
115	0.55	0.711	0.900	
206	0.53	0.745	0.900	
207	0.52	0.759	0.900	
208	0.53	0.759	0.900	
220	0.25	0.250		

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode --- Nebulizer Gas 0.82 L/min Dilution Gas 0.40 L/min

US EPA Tune Check Report

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

Lens Parameters

Extract 1	0.0 V	Omega Lens	8.7 V	Deflect	15.8 V
Extract 2	-110.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-60 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	170 V		

QP Parameters

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

Hardware Settings

Torch

Torch H	-0.3 mm	Torch V	0.4 mm
---------	---------	---------	--------

EM

Discriminator	4.6 mV	Analog HV	2312 V	Pulse HV	1396 V
---------------	--------	-----------	--------	----------	--------

[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		12496	124956.30			0.563	
89		16932	169321.18			0.303	
205		23195	231949.38			0.314	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	12451	12431	12524	12467	12605
89	16879	17018	16925	16914	16924
205	23177	23323	23171	23143	23160

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

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

Lens Parameters

Extract 1	0.0 V	Omega Lens	9.0 V	Deflect	3.2 V
-----------	-------	------------	-------	---------	-------

US EPA Tune Check Report

Extract 2	-110.0 V	Cell Entrance	-40 V	Plate Bias	-60 V
Omega Bias	-65 V	Cell Exit	-60 V		
Cell Parameters					
Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	3.9 mL/min	OctP Bias	-18.0 V		
H2 Flow	---	OctP RF	170 V		
QP Parameters					
Mass Gain	134	Axis Gain	0.9973	QP Bias	-13.0 V
Mass Offset	130	Axis Offset	0.15		
Hardware Settings					
Torch					
Torch H	-0.3 mm	Torch V	0.4 mm		
EM					
Discriminator	4.6 mV	Analog HV	2312 V	Pulse HV	1396 V