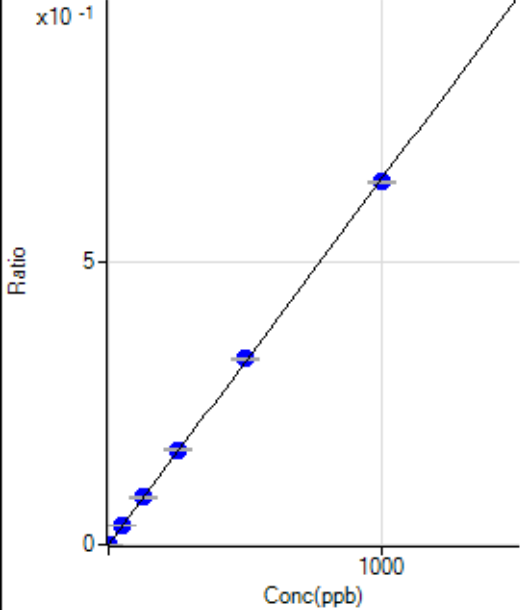


Batch Folder: D:\Agilent\ICPMH\1\DATA\P7090924-MS.b\
Analysis File: P7090924-MS.batch.bin
DA Date-Time: 2024-09-09 15:19:36
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.d	S00	2024-09-09 12:13:57
2	005CALS.d	S02	2024-09-09 12:17:19
3	006CALS.d	S03	2024-09-09 12:20:42
4	007CALS.d	S04	2024-09-09 12:24:00
5	008CALS.d	S05	2024-09-09 12:27:13
6	009CALS.d	S06	2024-09-09 12:30:18
7	010CALS.d	S07	2024-09-09 12:33:19
8	011CALS.d	S08	2024-09-09 12:36:11

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	10.00	0.0000	P	57.7
2	☐	1.000	1.045	607.80	0.0007	P	12.1
3	☐	50.000	54.384	31291.62	0.0351	P	0.9
4	☐	125.000	130.593	78264.67	0.0843	P	2.8
5	☐	250.000	259.144	160486.70	0.1673	P	1.1
6	☐	500.000	508.180	317794.75	0.3282	P	1.5
7	☐	1000.000	992.705	637623.79	0.6410	P	0.9
8	☐			168.89	0.0002	P	36.1

$y = 6.4572E-004 * x + 1.1337E-005$

$R = 0.9999$

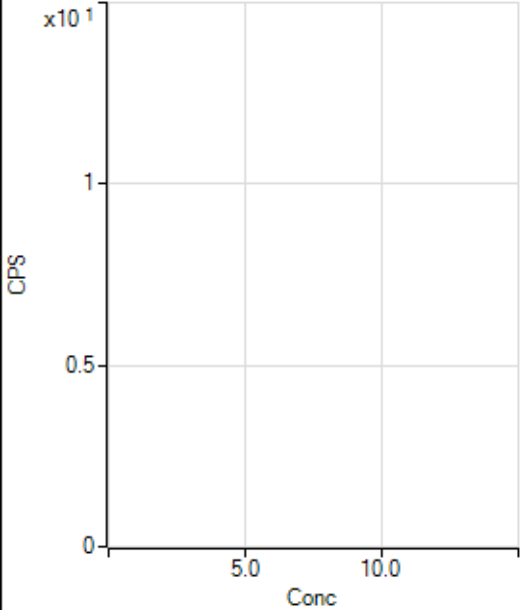
$DL = 0.03041$

$BEC = 0.01756$

Weight: <None>

Min Conc: 0

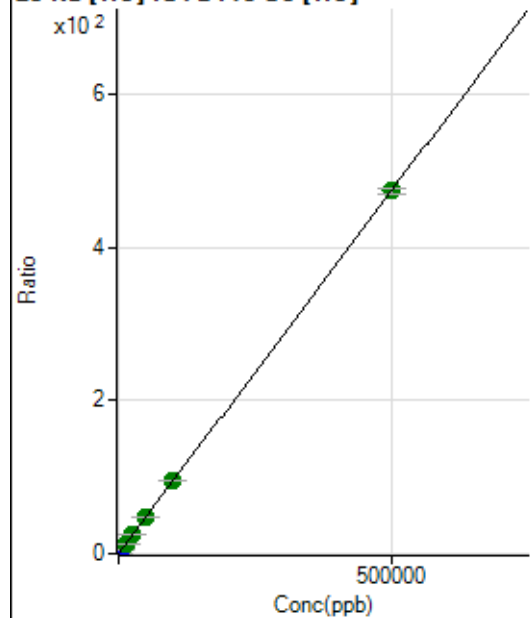
12 C [No Gas] No available calibration points



	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	10913.94	0.0610	P	2.3
2	☐	500.000	514.453	96797.58	0.5488	P	2.5
3	☐	5000.000	5533.452	909568.37	5.3076	P	0.3
4	☐	12500.000	12609.316	2040478.20	12.0166	A	0.3
5	☐	25000.000	25379.959	3958599.97	24.1252	A	0.3
6	☐	50000.000	50086.159	7496622.39	47.5506	A	1.8
7	☐	100000.00	100309.06	14579981.31	95.1698	A	0.8
8	☐	500000.00	499902.49	67618258.44	474.0474	A	1.3

$$y = 9.4816\text{E-}004 * x + 0.0610$$

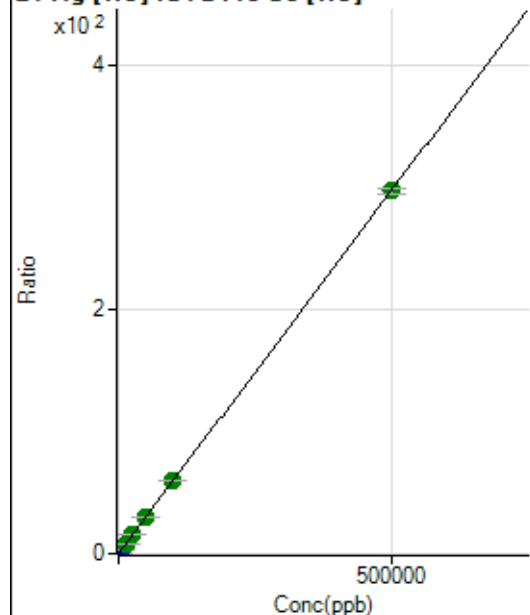
$$R = 1.0000$$

$$DL = 4.488$$

$$BEC = 64.34$$

Weight: <None>

Min Conc: 0

24 Mg [He] ISTD:45 Sc [He]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	154.45	0.0009	P	6.8
2	☐	500.000	511.614	53908.56	0.3056	P	1.4
3	☐	5000.000	5550.388	566705.04	3.3069	P	0.2
4	☐	12500.000	12803.215	1294948.47	7.6269	A	1.9
5	☐	25000.000	25826.357	2524214.01	15.3840	A	0.8
6	☐	50000.000	50970.101	4786445.94	30.3605	A	1.5
7	☐	100000.00	101107.14	9225999.86	60.2239	A	1.1
8	☐	500000.00	499627.14	42448631.59	297.5967	A	1.5

$$y = 5.9564\text{E-}004 * x + 8.6322\text{E-}004$$

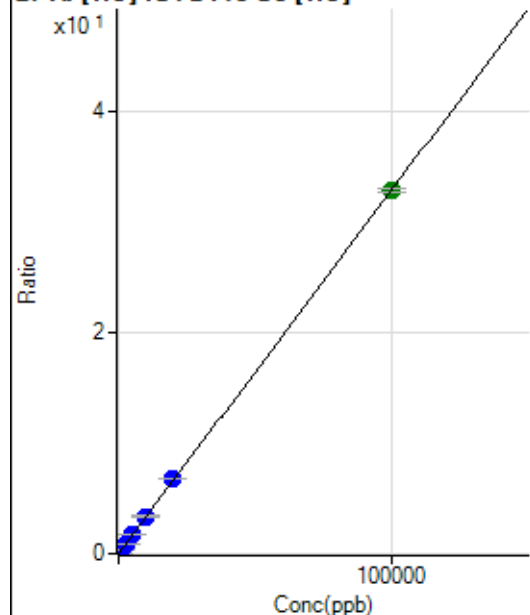
$$R = 1.0000$$

$$DL = 0.2963$$

$$BEC = 1.449$$

Weight: <None>

Min Conc: 0

27 Al [He] ISTD:45 Sc [He]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	67.78	0.0004	P	16.6
2	☐	20.000	19.405	1193.39	0.0068	P	1.3
3	☐	1000.000	1080.137	60974.98	0.3558	P	1.0
4	☐	2500.000	2607.893	145789.06	0.8586	P	0.3
5	☐	5000.000	5182.338	279891.61	1.7057	P	0.6
6	☐	10000.000	10283.658	533557.93	3.3844	P	1.6
7	☐	20000.000	20585.626	1037827.61	6.7744	P	0.9
8	☐	100000.00	99841.893	4686489.41	32.8551	A	1.2

$$y = 3.2907\text{E-}004 * x + 3.7912\text{E-}004$$

$$R = 1.0000$$

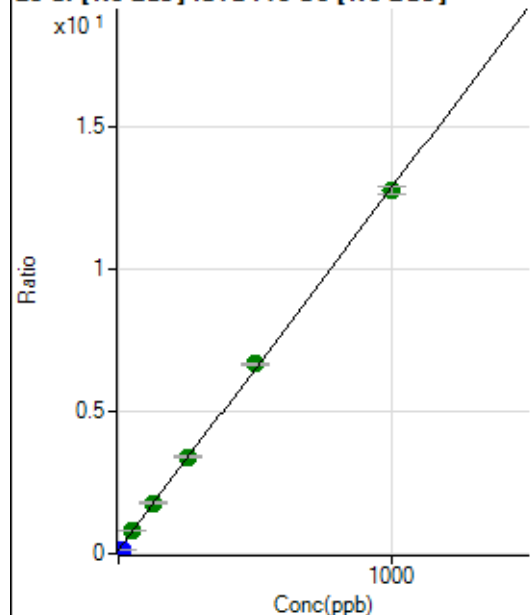
$$DL = 0.5721$$

$$BEC = 1.152$$

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	359634.09	0.1560	P	1.0
2	☐	10.000	0.152	362743.40	0.1579	P	0.7
3	☐	50.000	52.331	1851761.45	0.8194	A	3.2
4	☐	125.000	128.460	4002457.40	1.7845	A	1.8
5	☐	250.000	255.353	7527607.04	3.3931	A	1.9
6	☐	500.000	512.752	14255600.76	6.6561	A	0.9
7	☐	1000.000	991.835	27450235.98	12.7293	A	2.1
8	☐			365080.68	0.1833	P	2.9

$$y = 0.0127 * x + 0.1560$$

$$R = 0.9998$$

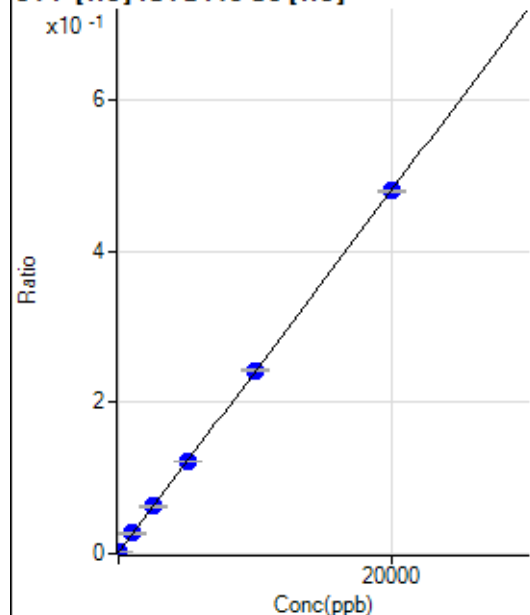
$$DL = 0.3657$$

$$BEC = 12.31$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	-15.180	248.89	0.0014	P	7.2
2	☐	0.000	15.180	374.45	0.0021	P	18.1
3	☐	1000.000	1049.092	4606.29	0.0269	P	2.0
4	☐	2500.000	2543.837	10642.70	0.0627	P	1.7
5	☐	5000.000	5054.893	20148.92	0.1228	P	0.6
6	☐	10000.000	10036.758	38168.69	0.2421	P	1.2
7	☐	20000.000	19959.963	73494.01	0.4797	P	0.3
8	☐			257.78	0.0018	P	8.6

$$y = 2.3946E-005 * x + 0.0018$$

$$R = 1.0000$$

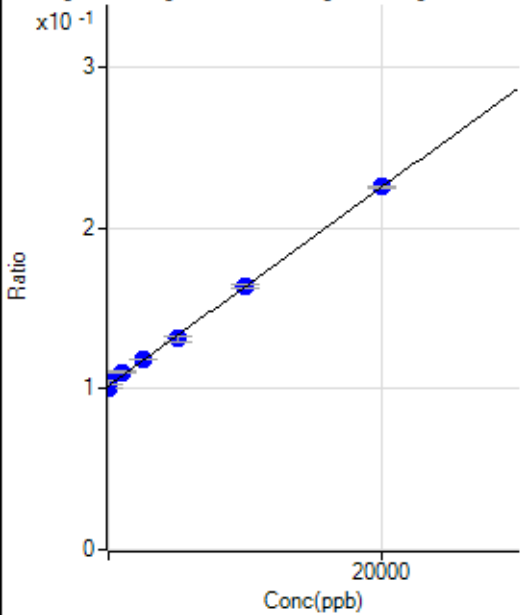
$$DL = 30.23$$

$$BEC = 73.29$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	-282.776	231038.36	0.1002	P	0.8
2	☐	0.000	282.776	238181.50	0.1037	P	1.8
3	☐	1000.000	1369.386	249517.20	0.1104	P	1.8
4	☐	2500.000	2678.050	265749.18	0.1185	P	0.7
5	☐	5000.000	4681.174	290152.03	0.1308	P	2.0
6	☐	10000.000	10032.199	350822.14	0.1638	P	1.1
7	☐	20000.000	20022.882	486060.38	0.2254	P	0.6
8	☐			196858.84	0.0988	P	3.4

$y = 6.1641E-006 * x + 0.1020$

$R = 0.9994$

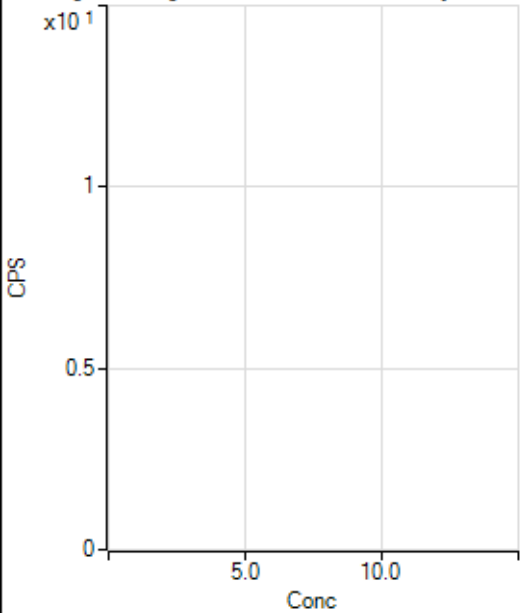
$DL = 645.7$

$BEC = 1.654E+04$

Weight: <None>

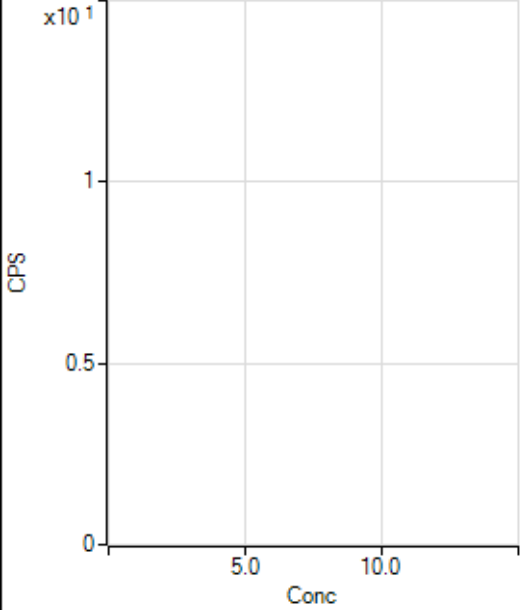
Min Conc: 0

35 Cl [No Gas] No available calibration points



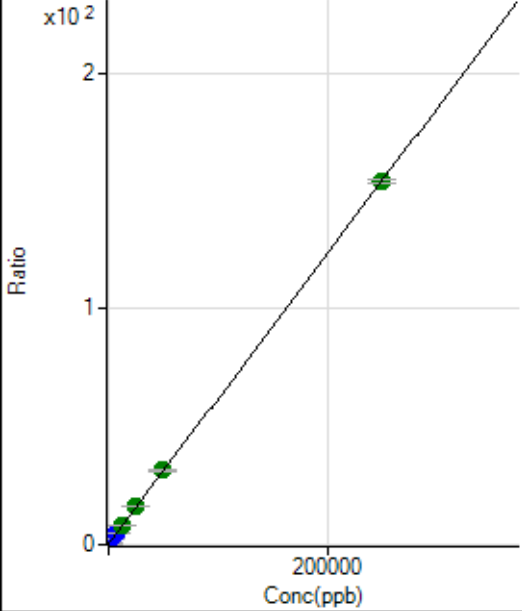
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐						
2	☐						
3	☐						
4	☐						
5	☐						
6	☐						
7	☐						
8	☐						

35 Cl [He] No available calibration points



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

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	60358.07	0.3374	P	0.7
2	☐	500.000	540.025	118008.40	0.6690	P	2.5
3	☐	2500.000	2892.437	362233.64	2.1139	P	1.8
4	☐	6250.000	6995.571	786841.81	4.6340	P	0.7
5	☐	12500.000	13013.221	1366835.16	8.3299	A	0.3
6	☐	25000.000	25664.311	2538151.28	16.1000	A	1.7
7	☐	50000.000	50830.393	4834328.37	31.5567	A	1.3
8	☐	250000.00	249719.18	21925983.56	153.7114	A	0.9

$y = 6.1419E-004 * x + 0.3374$

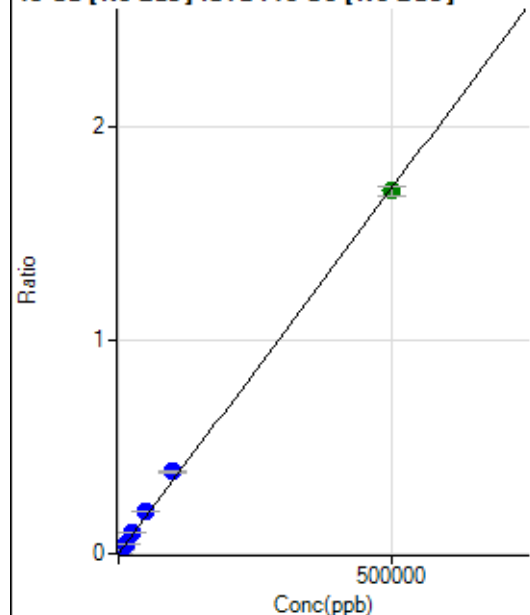
$R = 1.0000$

$DL = 10.79$

$BEC = 549.3$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	397.79	0.0002	P	7.1
2	☐	500.000	512.642	4418.46	0.0019	P	5.6
3	☐	5000.000	5738.890	44694.65	0.0198	P	2.2
4	☐	12500.000	14273.423	109755.88	0.0489	P	1.9
5	☐	25000.000	28348.749	215194.92	0.0970	P	0.8
6	☐	50000.000	57292.329	419478.04	0.1959	P	2.2
7	☐	100000.00	112122.89	826350.80	0.3832	P	1.5
8	☐	500000.00	496627.01	3380575.05	1.6967	A	3.0

$$y = 3.4162\text{E-}006 * x + 1.7262\text{E-}004$$

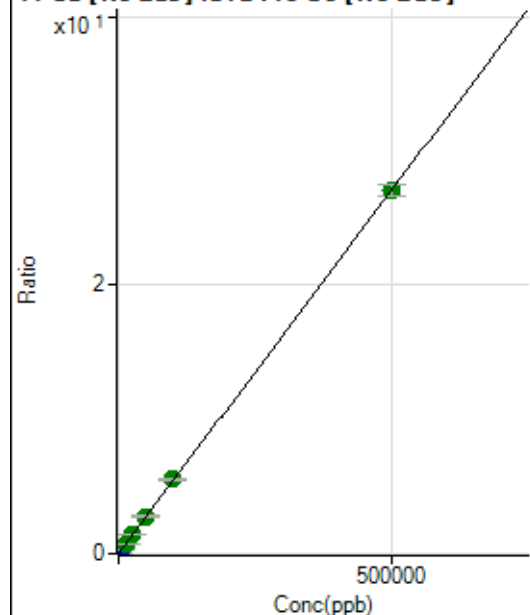
$$R = 0.9996$$

$$DL = 10.78$$

$$BEC = 50.53$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	9093.96	0.0039	P	0.9
2	☐	500.000	523.783	74202.48	0.0323	P	1.7
3	☐	5000.000	5627.697	697564.61	0.3087	P	2.9
4	☐	12500.000	12832.636	1567603.66	0.6989	A	0.8
5	☐	25000.000	25835.916	3112112.63	1.4030	A	1.7
6	☐	50000.000	51372.109	5966650.12	2.7859	A	2.1
7	☐	100000.00	102295.38	11954089.13	5.5435	A	2.0
8	☐	500000.00	499347.29	53877720.87	27.0451	A	3.2

$$y = 5.4153\text{E-}005 * x + 0.0039$$

$$R = 1.0000$$

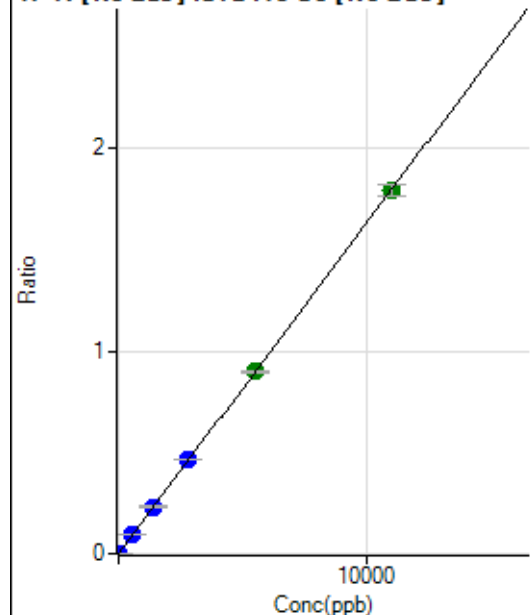
$$DL = 1.952$$

$$BEC = 72.85$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	108.89	0.0000	P	11.6
2	☐	5.000	4.841	1925.70	0.0008	P	2.9
3	☐	550.000	568.523	210023.16	0.0929	P	2.4
4	☐	1375.000	1414.781	518614.37	0.2312	P	1.3
5	☐	2750.000	2841.246	1029838.24	0.4643	P	0.8
6	☐	5500.000	5509.189	1927975.82	0.9002	A	1.1
7	☐	11000.000	10966.695	3863986.61	1.7919	A	3.0
8	☐			872.26	0.0004	P	2.4

$$y = 1.6339\text{E-}004 * x + 4.7207\text{E-}005$$

$$R = 1.0000$$

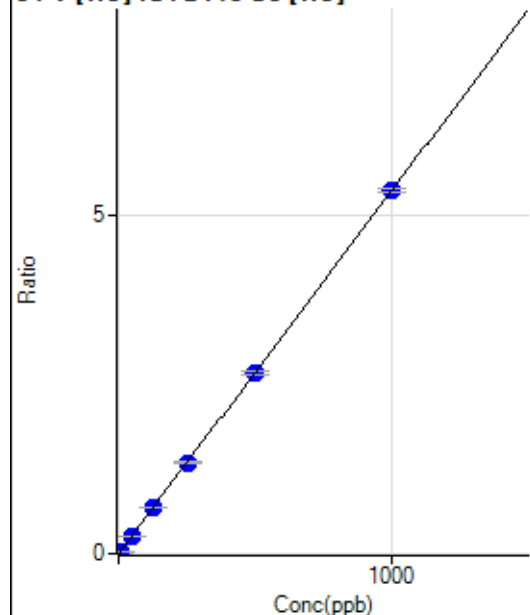
$$DL = 0.1008$$

$$BEC = 0.2889$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	6.67	0.0000	P	49.6
2	☐	5.000	4.822	4575.18	0.0259	P	2.9
3	☐	50.000	50.093	46118.03	0.2691	P	0.4
4	☐	125.000	126.345	115242.71	0.6787	P	0.8
5	☐	250.000	251.528	221696.30	1.3511	P	1.0
6	☐	500.000	498.489	422155.04	2.6777	P	1.5
7	☐	1000.000	1000.202	823070.78	5.3727	P	1.2
8	☐			276.67	0.0019	P	18.4

$$y = 0.0054 * x + 3.7224\text{E-}005$$

$$R = 1.0000$$

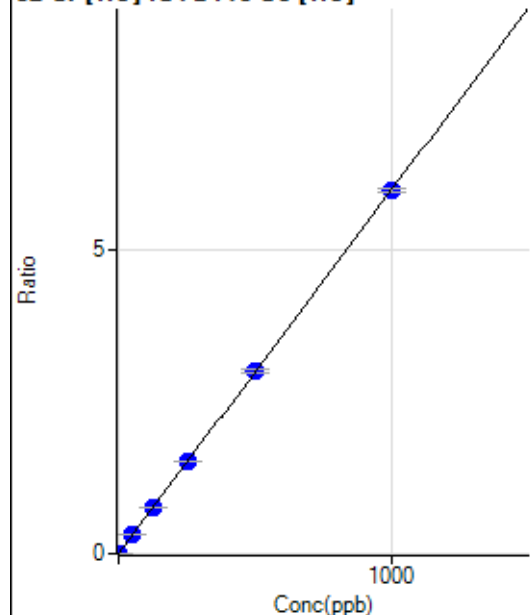
$$DL = 0.01031$$

$$BEC = 0.00693$$

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	465.57	0.0026	P	9.8
2	☐	2.000	1.905	2463.56	0.0140	P	1.8
3	☐	50.000	50.765	52329.50	0.3054	P	0.6
4	☐	125.000	125.864	127894.11	0.7532	P	1.9
5	☐	250.000	254.252	249240.96	1.5189	P	0.4
6	☐	500.000	502.486	472847.90	2.9994	P	1.8
7	☐	1000.000	997.548	911821.20	5.9519	P	1.1
8	☐			4147.27	0.0291	P	1.4

$$y = 0.0060 * x + 0.0026$$

$$R = 1.0000$$

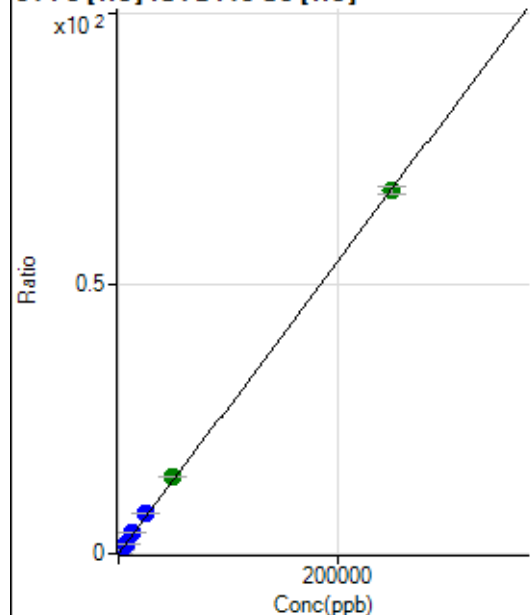
$$DL = 0.1277$$

$$BEC = 0.4364$$

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	1200.06	0.0067	P	3.8
2	☐	50.000	53.866	3747.16	0.0212	P	4.1
3	☐	2500.000	2791.815	130270.10	0.7602	P	0.9
4	☐	6250.000	6929.217	318674.96	1.8768	P	0.9
5	☐	12500.000	13912.324	617198.68	3.7615	P	0.4
6	☐	25000.000	27422.266	1167761.38	7.4076	P	2.0
7	☐	50000.000	52592.884	2175640.14	14.2009	A	0.7
8	☐	250000.00	249148.68	9592186.87	67.2490	A	2.0

$$y = 2.6989E-004 * x + 0.0067$$

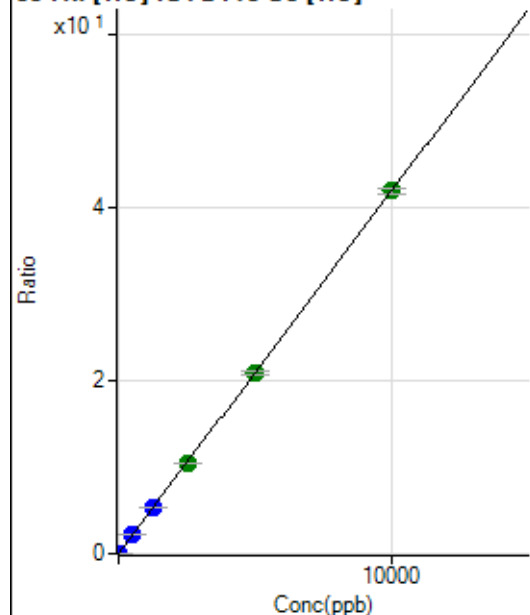
$$R = 0.9999$$

$$DL = 2.821$$

$$BEC = 24.85$$

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	195.56	0.0011	P	0.5
2	☐	1.000	1.048	966.71	0.0055	P	1.1
3	☐	500.000	518.280	371864.60	2.1700	P	0.7
4	☐	1250.000	1273.516	905126.98	5.3305	P	0.7
5	☐	2500.000	2508.436	1722606.33	10.4984	A	0.4
6	☐	5000.000	4981.131	3286308.70	20.8461	A	1.9
7	☐	10000.000	10003.472	6413266.29	41.8635	A	1.6
8	☐			3538.23	0.0248	P	5.5

$$y = 0.0042 * x + 0.0011$$

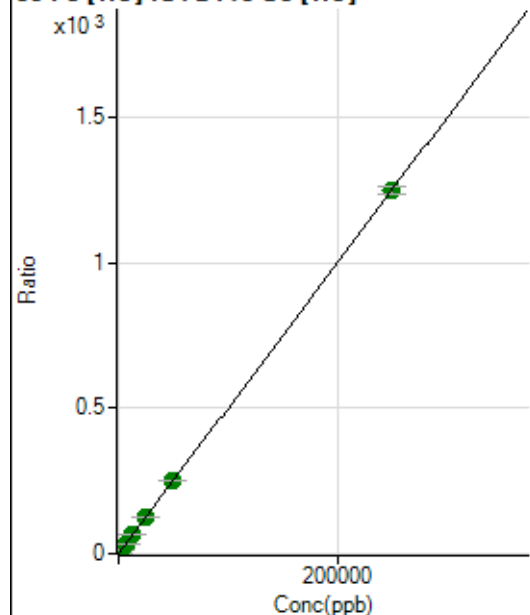
$$R = 1.0000$$

$$DL = 0.00359$$

$$BEC = 0.2612$$

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	5711.14	0.0319	P	3.8
2	☐	50.000	52.325	51698.65	0.2931	P	3.4
3	☐	2500.000	2579.016	2211765.89	12.9068	A	1.2
4	☐	6250.000	6342.789	5381114.47	31.6961	A	2.7
5	☐	12500.000	12916.551	10586419.70	64.5134	A	1.5
6	☐	25000.000	25292.718	19913600.95	126.2972	A	0.9
7	☐	50000.000	50146.074	38356415.82	250.3692	A	1.3
8	☐	250000.00	249917.57	177955470.6	1,247.660	A	2.2

$$y = 0.0050 * x + 0.0319$$

$$R = 1.0000$$

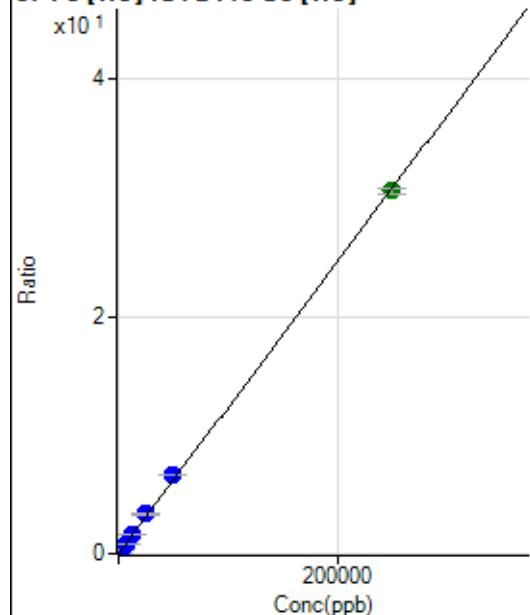
$$DL = 0.7234$$

$$BEC = 6.395$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1852.36	0.0104	P	4.0
2	☐	50.000	55.830	3035.89	0.0172	P	1.0
3	☐	2500.000	2793.407	60529.23	0.3532	P	1.0
4	☐	6250.000	6865.308	144841.93	0.8530	P	0.7
5	☐	12500.000	13677.166	277147.16	1.6891	P	0.8
6	☐	25000.000	27108.470	526183.20	3.3376	P	1.6
7	☐	50000.000	54317.129	1022918.15	6.6772	P	1.2
8	☐	250000.00	248848.55	4358178.27	30.5540	A	1.5

$$y = 1.2274\text{E-}004 * x + 0.0104$$

$$R = 0.9998$$

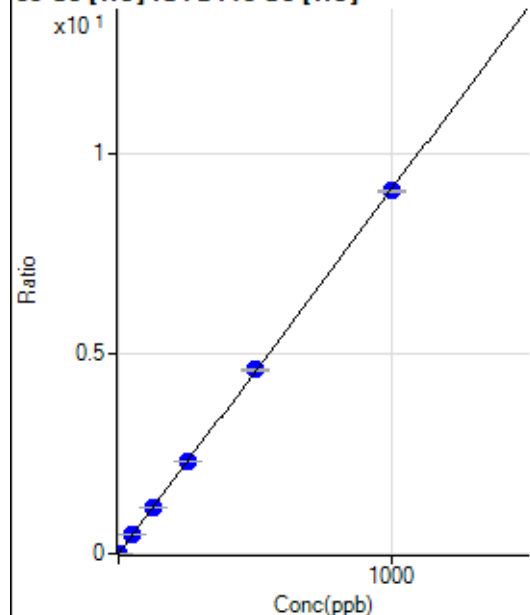
$$DL = 10.19$$

$$BEC = 84.36$$

Weight: <None>

Min Conc: 0

59 Co [He] ISTD:45 Sc [He]



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	56.67	0.0003	P	52.0
2	☐	1.000	1.020	1693.45	0.0096	P	3.0
3	☐	50.000	51.937	81007.12	0.4727	P	0.9
4	☐	125.000	127.917	197618.93	1.1638	P	0.2
5	☐	250.000	255.282	381050.18	2.3222	P	0.1
6	☐	500.000	504.226	723102.00	4.5865	P	1.3
7	☐	1000.000	996.105	1388108.35	9.0604	P	0.4
8	☐			3462.66	0.0243	P	2.5

$$y = 0.0091 * x + 3.1611\text{E-}004$$

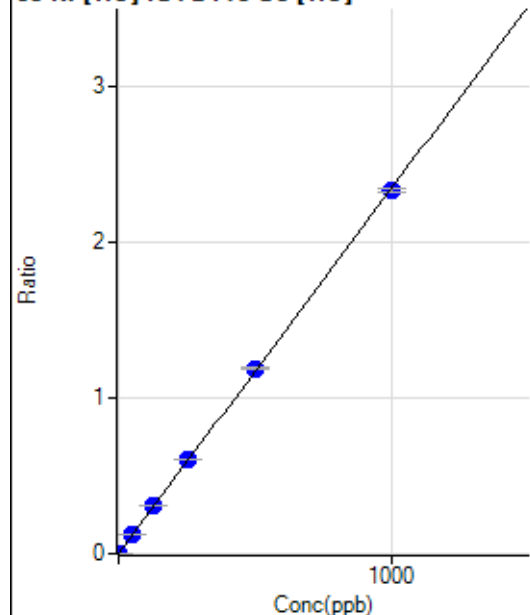
$$R = 1.0000$$

$$DL = 0.05426$$

$$BEC = 0.03475$$

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	111.11	0.0006	P	22.7
2	☐	1.000	0.976	513.35	0.0029	P	8.8
3	☐	50.000	52.263	21132.77	0.1233	P	2.3
4	☐	125.000	129.350	51675.40	0.3043	P	0.2
5	☐	250.000	258.538	99705.45	0.6076	P	0.3
6	☐	500.000	507.544	187972.69	1.1923	P	1.2
7	☐	1000.000	993.437	357412.88	2.3331	P	1.2
8	☐			1622.33	0.0114	P	3.6

$$y = 0.0023 * x + 6.2059E-004$$

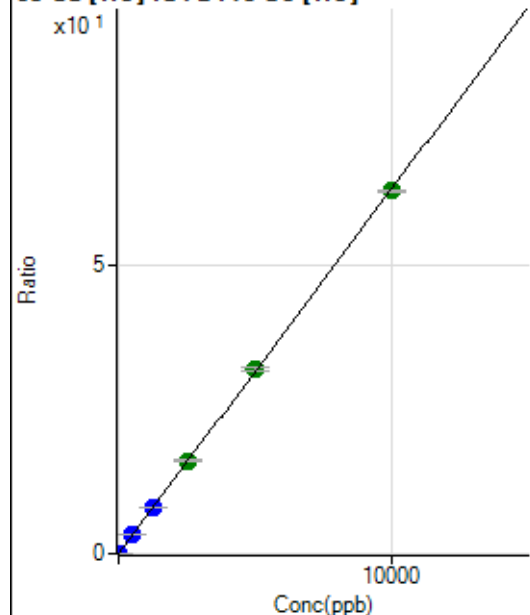
$$R = 0.9999$$

$$DL = 0.1804$$

$$BEC = 0.2643$$

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	587.79	0.0033	P	2.2
2	☐	2.000	2.003	2809.18	0.0159	P	4.6
3	☐	500.000	517.227	560050.78	3.2682	P	1.0
4	☐	1250.000	1262.264	1353484.72	7.9710	P	0.6
5	☐	2500.000	2556.100	2647971.68	16.1380	A	0.6
6	☐	5000.000	5065.927	5041582.08	31.9807	A	1.9
7	☐	10000.000	9950.617	9624035.97	62.8141	A	0.5
8	☐			2550.24	0.0179	P	1.3

$$y = 0.0063 * x + 0.0033$$

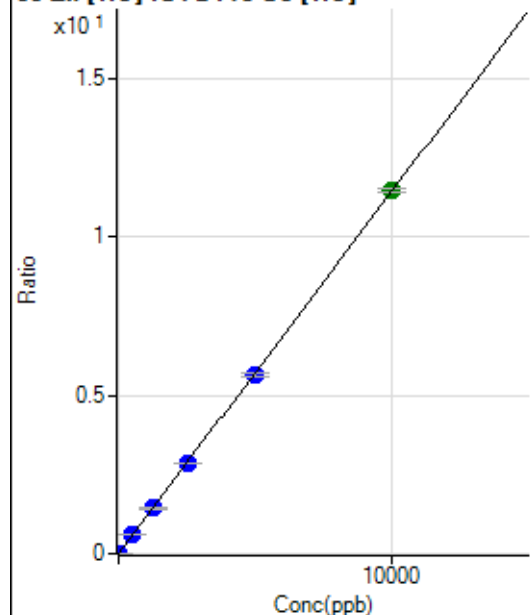
$$R = 1.0000$$

$$DL = 0.0338$$

$$BEC = 0.5205$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	235.56	0.0013	P	20.1
2	☐	5.000	5.014	1241.17	0.0070	P	4.0
3	☐	500.000	510.009	99895.74	0.5829	P	1.7
4	☐	1250.000	1252.103	242673.08	1.4292	P	1.1
5	☐	2500.000	2497.615	467582.35	2.8496	P	1.1
6	☐	5000.000	4947.002	889614.29	5.6429	P	1.6
7	☐	10000.000	10026.332	1751962.20	11.4355	A	1.1
8	☐			857.81	0.0060	P	3.2

$$y = 0.0011 * x + 0.0013$$

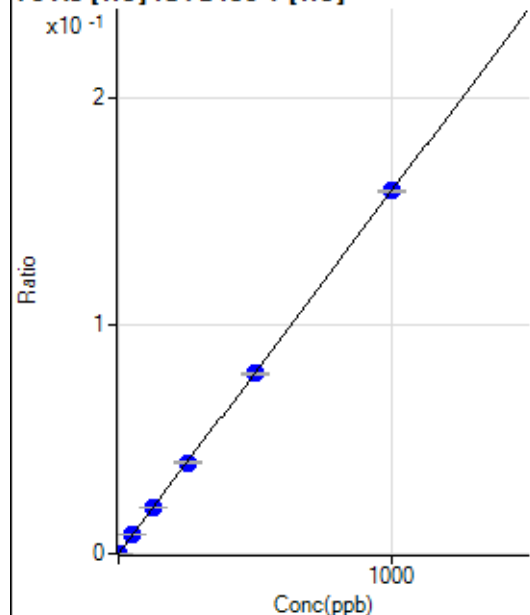
$$R = 1.0000$$

$$DL = 0.698$$

$$BEC = 1.156$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2.22	0.0000	P	86.6
2	☐	1.000	0.910	156.67	0.0001	P	10.7
3	☐	50.000	51.158	8639.24	0.0081	P	1.8
4	☐	125.000	128.381	21176.29	0.0204	P	1.8
5	☐	250.000	251.018	40458.42	0.0399	P	1.7
6	☐	500.000	497.686	78287.23	0.0791	P	0.8
7	☐	1000.000	1000.422	153932.30	0.1590	P	0.3
8	☐			68.89	0.0001	P	7.1

$$y = 1.5890E-004 * x + 2.0593E-006$$

$$R = 1.0000$$

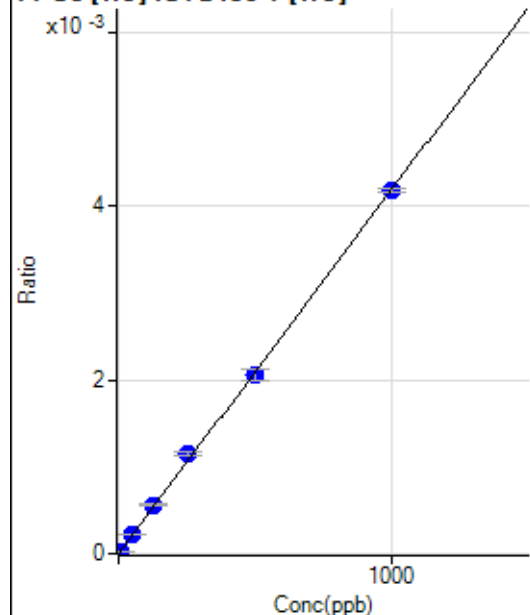
$$DL = 0.03367$$

$$BEC = 0.01296$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	0.00	0.0000	P	
2	☐	5.000	6.178	27.78	0.0000	P	53.4
3	☐	50.000	53.361	237.78	0.0002	P	3.4
4	☐	125.000	134.255	584.46	0.0006	P	1.4
5	☐	250.000	275.648	1172.28	0.0012	P	4.9
6	☐	500.000	490.794	2036.82	0.0021	P	6.1
7	☐	1000.000	996.860	4048.37	0.0042	P	1.0
8	☐			2.22	0.0000	P	173.

$$y = 4.1940\text{E-}006 * x + 0.0000\text{E+}000$$

$$R = 0.9996$$

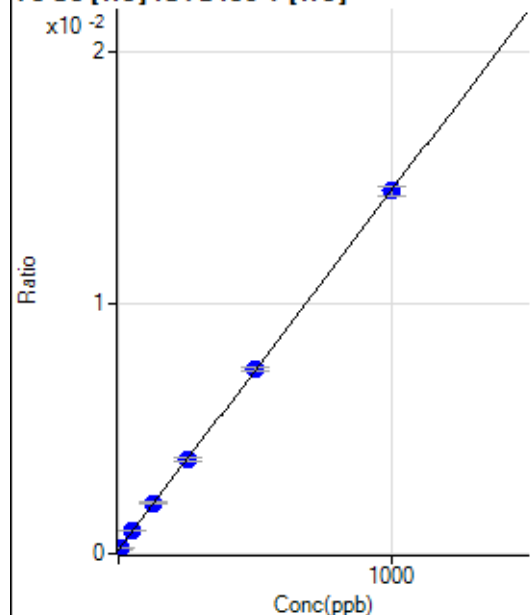
$$DL = 0$$

$$BEC = 0$$

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	194.45	0.0002	P	15.1
2	☐	5.000	4.330	258.89	0.0002	P	10.3
3	☐	50.000	50.041	952.26	0.0009	P	3.2
4	☐	125.000	128.695	2097.95	0.0020	P	5.2
5	☐	250.000	251.705	3834.97	0.0038	P	4.3
6	☐	500.000	501.708	7281.85	0.0074	P	2.1
7	☐	1000.000	998.259	13998.92	0.0145	P	2.6
8	☐			150.00	0.0002	P	7.0

$$y = 1.4305\text{E-}005 * x + 1.8046\text{E-}004$$

$$R = 1.0000$$

$$DL = 5.708$$

$$BEC = 12.62$$

Weight: <None>

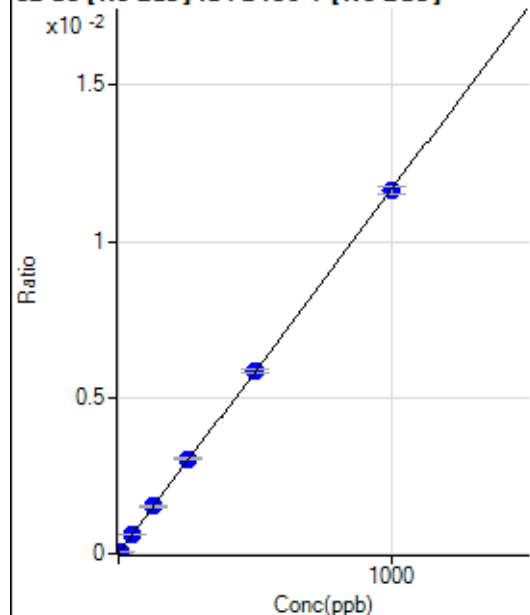
Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			4336.23		P	1.2
2	☐			4569.64		P	1.2
3	☐			4424.03		P	2.4
4	☐			4209.53		P	2.3
5	☐			4023.93		P	4.4
6	☐			3824.98		P	1.6
7	☐			3553.80		P	3.2
8	☐			3671.61		P	0.8

81 Br [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			47.78		P	17.6
2	☐			26.67		P	45.1
3	☐			26.67		P	33.1
4	☐			33.33		P	10.0
5	☐			26.67		P	45.1
6	☐			21.11		P	9.1
7	☐			12.22		P	78.7
8	☐			45.55		P	29.6

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	67.70	0.0000	P	31.8
2	☐	5.000	6.208	401.86	0.0001	P	0.5
3	☐	50.000	53.017	2910.32	0.0006	P	3.0
4	☐	125.000	128.491	6969.87	0.0015	P	2.1
5	☐	250.000	260.372	13721.51	0.0030	P	2.5
6	☐	500.000	500.935	26207.61	0.0058	P	2.4
7	☐	1000.000	996.346	51547.84	0.0116	P	2.0
8	☐			153.58	0.0000	P	17.3

$$y = 1.1640\text{E-}005 * x + 1.4628\text{E-}005$$

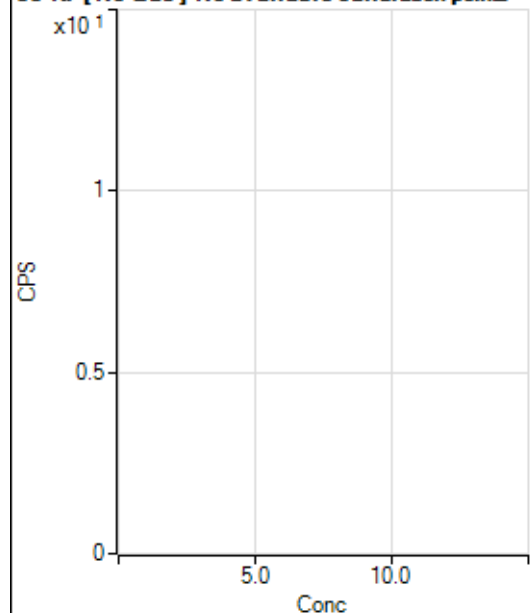
$$R = 0.9999$$

$$DL = 1.198$$

$$BEC = 1.257$$

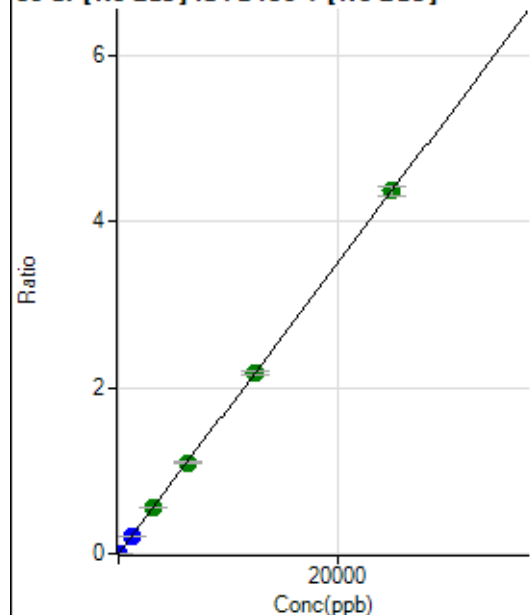
Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			161.11		P	17.2
2	☐			138.89		P	15.6
3	☐			145.56		P	17.5
4	☐			135.56		P	27.2
5	☐			138.89		P	11.3
6	☐			128.89		P	19.8
7	☐			153.34		P	13.2
8	☐			115.56		P	14.5

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	262.23	0.0001	P	14.2
2	☐	1.000	0.949	1026.71	0.0002	P	7.5
3	☐	1250.000	1251.899	1005709.78	0.2183	P	1.1
4	☐	3125.000	3138.376	2525068.02	0.5471	A	1.2
5	☐	6250.000	6274.256	4927818.36	1.0937	A	2.6
6	☐	12500.000	12423.690	9708866.66	2.1655	A	2.1
7	☐	25000.000	25030.324	19365904.02	4.3629	A	2.8
8	☐			3521.57	0.0008	P	5.0

$$y = 1.7430\text{E-}004 * x + 5.6576\text{E-}005$$

$$R = 1.0000$$

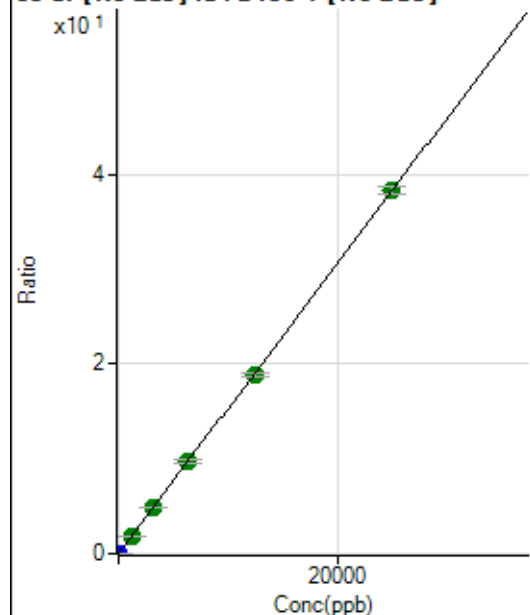
$$DL = 0.1383$$

$$BEC = 0.3246$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	182.23	0.0000	P	2.6
2	☐	1.000	0.986	7145.14	0.0015	P	3.0
3	☐	1250.000	1238.227	8720069.80	1.8922	A	2.1
4	☐	3125.000	3132.282	22095386.34	4.7865	A	0.5
5	☐	6250.000	6374.493	43894165.46	9.7410	A	2.4
6	☐	12500.000	12347.170	84614695.96	18.8679	A	1.5
7	☐	25000.000	25044.970	169900293.0	38.2716	A	2.0
8	☐			28760.47	0.0069	P	3.4

$$y = 0.0015 * x + 3.9340\text{E-}005$$

$$R = 1.0000$$

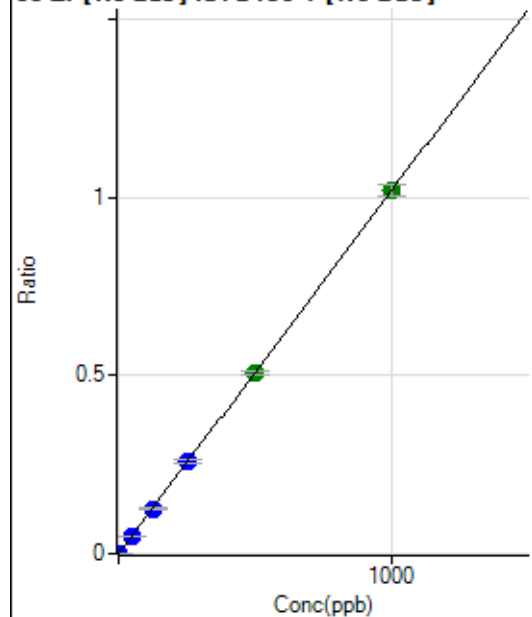
$$DL = 0.002042$$

$$BEC = 0.02574$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	192.23	0.0000	P	11.4
2	☐	1.000	0.927	4558.52	0.0010	P	3.1
3	☐	50.000	49.998	235027.01	0.0510	P	0.8
4	☐	125.000	123.797	582516.80	0.1262	P	1.9
5	☐	250.000	254.425	1168670.87	0.2594	P	2.7
6	☐	500.000	498.450	2278160.63	0.5081	A	2.8
7	☐	1000.000	999.819	4523659.69	1.0192	A	3.3
8	☐			2506.91	0.0006	P	3.8

$$y = 0.0010 * x + 4.1494E-005$$

$$R = 1.0000$$

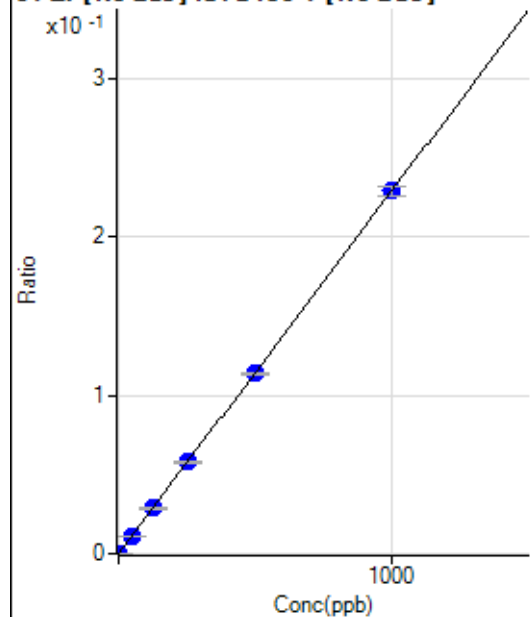
$$DL = 0.0139$$

$$BEC = 0.04071$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	41.11	0.0000	P	36.4
2	☐	1.000	0.961	1056.72	0.0002	P	5.3
3	☐	50.000	49.856	52559.34	0.0114	P	1.7
4	☐	125.000	125.554	132499.90	0.0287	P	2.4
5	☐	250.000	252.787	260425.26	0.0578	P	3.1
6	☐	500.000	496.189	508661.84	0.1135	P	1.9
7	☐	1000.000	1001.147	1016060.23	0.2289	P	2.5
8	☐			575.57	0.0001	P	6.5

$$y = 2.2863E-004 * x + 8.8693E-006$$

$$R = 1.0000$$

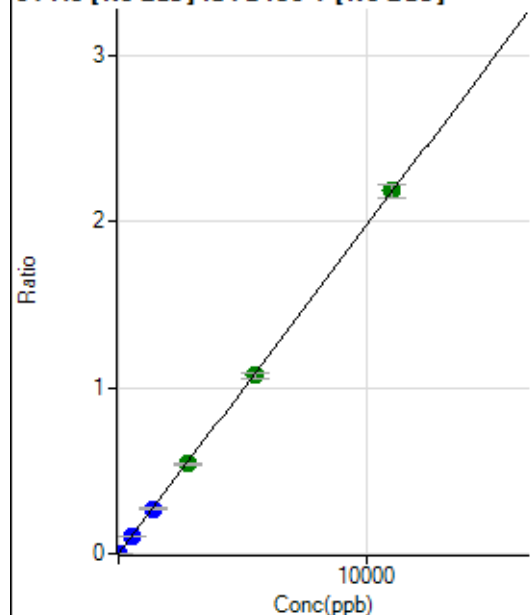
$$DL = 0.04236$$

$$BEC = 0.03879$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	96.67	0.0000	P	8.4
2	☐	5.000	5.797	5396.59	0.0012	P	4.2
3	☐	550.000	549.363	500768.65	0.1087	P	1.5
4	☐	1375.000	1372.205	1252514.94	0.2714	P	2.3
5	☐	2750.000	2730.202	2433837.60	0.5400	A	1.4
6	☐	5500.000	5423.868	4809164.62	1.0728	A	3.1
7	☐	11000.000	11043.396	9694224.85	2.1843	A	4.0
8	☐			2971.45	0.0007	P	4.9

$$y = 1.9779\text{E-}004 * x + 2.0861\text{E-}005$$

$$R = 1.0000$$

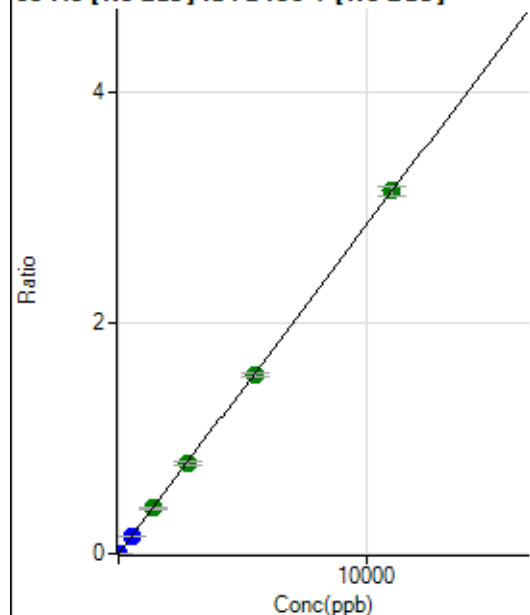
$$DL = 0.02669$$

$$BEC = 0.1055$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	45.55	0.0000	P	28.9
2	☐	5.000	4.898	6491.49	0.0014	P	2.5
3	☐	550.000	550.376	721790.68	0.1567	P	1.7
4	☐	1375.000	1378.637	1810350.28	0.3924	A	3.2
5	☐	2750.000	2757.543	3535639.84	0.7848	A	3.6
6	☐	5500.000	5433.628	6933062.81	1.5465	A	2.5
7	☐	11000.000	11030.827	13935936.18	3.1395	A	2.7
8	☐			3341.52	0.0008	P	8.6

$$y = 2.8461\text{E-}004 * x + 9.8210\text{E-}006$$

$$R = 1.0000$$

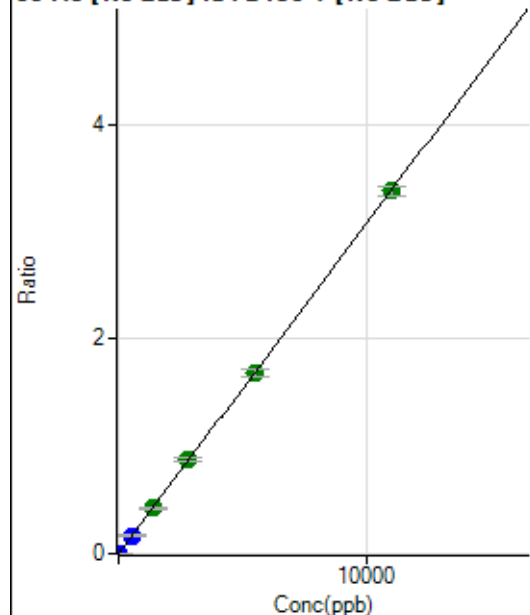
$$DL = 0.02989$$

$$BEC = 0.03451$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	74.45	0.0000	P	5.2
2	☐	5.000	4.865	7007.29	0.0015	P	1.8
3	☐	550.000	550.515	781686.10	0.1697	P	1.8
4	☐	1375.000	1370.299	1948387.84	0.4223	A	2.8
5	☐	2750.000	2866.899	3979630.91	0.8835	A	4.0
6	☐	5500.000	5484.937	7574903.84	1.6902	A	4.5
7	☐	11000.000	10978.869	15018210.47	3.3832	A	2.6
8	☐			5168.74	0.0012	P	4.2

$$y = 3.0815E-004 * x + 1.6073E-005$$

$$R = 0.9999$$

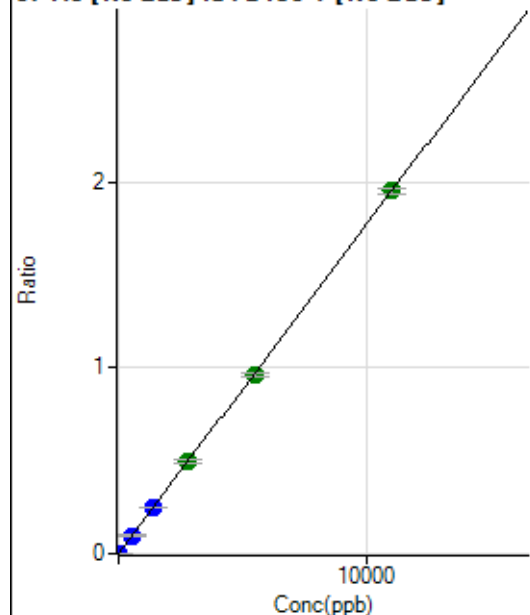
$$DL = 0.008175$$

$$BEC = 0.05216$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	42.22	0.0000	P	18.8
2	☐	5.000	4.802	3976.13	0.0009	P	6.1
3	☐	550.000	551.406	450226.37	0.0977	P	2.5
4	☐	1375.000	1385.483	1133140.11	0.2455	P	1.6
5	☐	2750.000	2798.906	2234245.76	0.4960	A	4.2
6	☐	5500.000	5451.490	4331323.72	0.9661	A	2.1
7	☐	11000.000	11010.648	8662264.45	1.9512	A	1.7
8	☐			2171.29	0.0005	P	7.5

$$y = 1.7721E-004 * x + 9.1226E-006$$

$$R = 1.0000$$

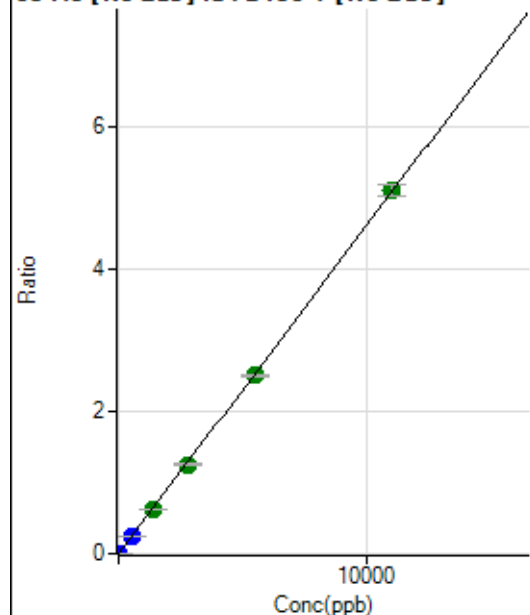
$$DL = 0.02901$$

$$BEC = 0.05148$$

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	81.11	0.0000	P	21.7
2	☐	5.000	4.842	10399.33	0.0022	P	1.0
3	☐	550.000	545.569	1158408.63	0.2514	P	1.2
4	☐	1375.000	1353.605	2878716.38	0.6237	A	1.1
5	☐	2750.000	2703.770	5614462.42	1.2458	A	1.6
6	☐	5500.000	5425.148	11207554.97	2.4997	A	1.9
7	☐	11000.000	11051.880	22602633.27	5.0923	A	3.1
8	☐			5444.41	0.0013	P	4.7

$$y = 4.6076\text{E-}004 * x + 1.7524\text{E-}005$$

$$R = 1.0000$$

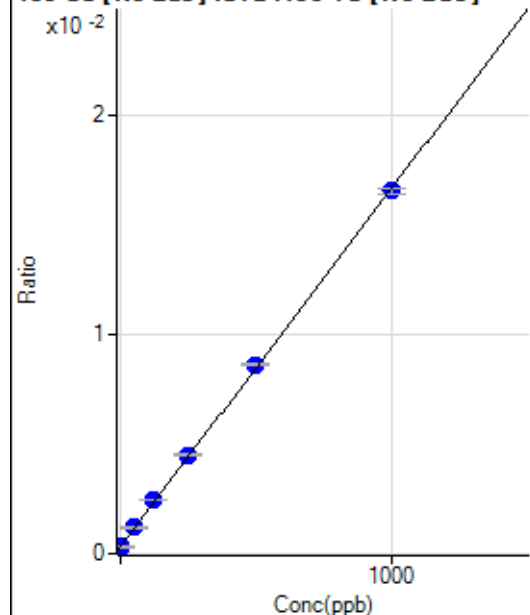
$$DL = 0.0247$$

$$BEC = 0.03803$$

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	1164.50	0.0003	P	8.5
2	☐	1.000	2.152	1285.63	0.0003	P	4.2
3	☐	50.000	55.599	4811.95	0.0012	P	4.3
4	☐	125.000	132.766	10361.53	0.0025	P	0.8
5	☐	250.000	258.308	19241.70	0.0045	P	2.5
6	☐	500.000	509.206	36461.35	0.0086	P	1.4
7	☐	1000.000	992.068	70804.97	0.0166	P	1.9
8	☐			1056.72	0.0003	P	1.8

$$y = 1.6439\text{E-}005 * x + 2.7466\text{E-}004$$

$$R = 0.9999$$

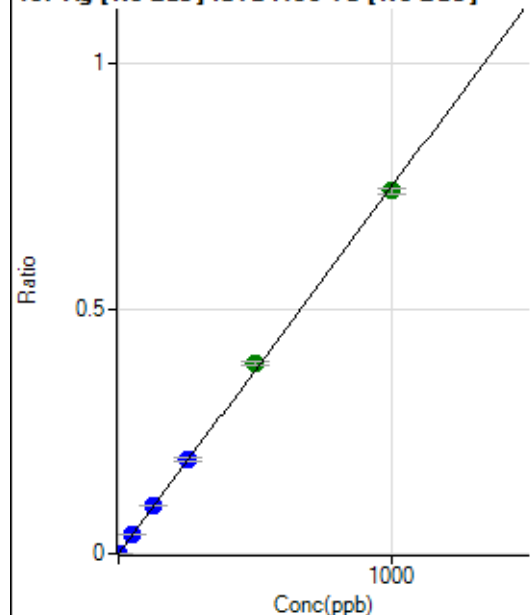
$$DL = 4.255$$

$$BEC = 16.71$$

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	25.55	0.0000	P	14.3
2	☐	1.000	0.984	3081.47	0.0007	P	1.6
3	☐	50.000	54.207	164412.70	0.0406	P	2.3
4	☐	125.000	129.419	408675.25	0.0969	P	1.2
5	☐	250.000	256.487	817440.20	0.1921	P	2.7
6	☐	500.000	517.870	1635370.04	0.3878	A	2.3
7	☐	1000.000	988.681	3161103.50	0.7404	A	1.4
8	☐			464.46	0.0001	P	15.4

$$y = 7.4884\text{E-}004 * x + 6.0252\text{E-}006$$

$$R = 0.9997$$

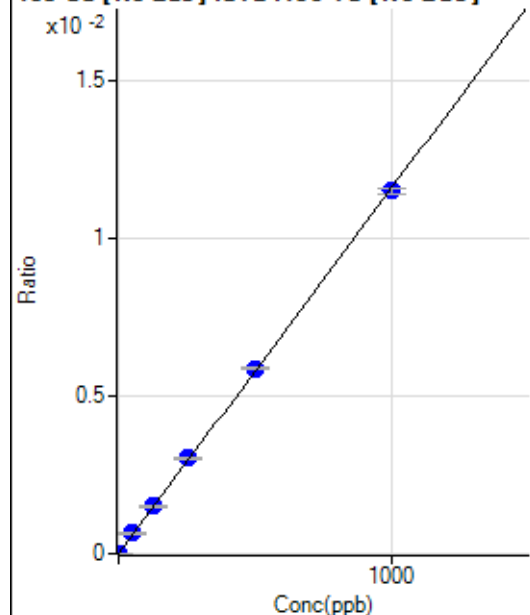
$$DL = 0.00346$$

$$BEC = 0.008046$$

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	3.33	0.0000	P	100.
2	☐	1.000	1.018	52.22	0.0000	P	52.8
3	☐	50.000	56.219	2636.94	0.0007	P	4.8
4	☐	125.000	130.029	6347.01	0.0015	P	1.8
5	☐	250.000	261.570	12880.26	0.0030	P	2.9
6	☐	500.000	506.958	24735.65	0.0059	P	1.0
7	☐	1000.000	992.689	49032.68	0.0115	P	1.3
8	☐			34.44	0.0000	P	25.3

$$y = 1.1568\text{E-}005 * x + 7.9065\text{E-}007$$

$$R = 0.9999$$

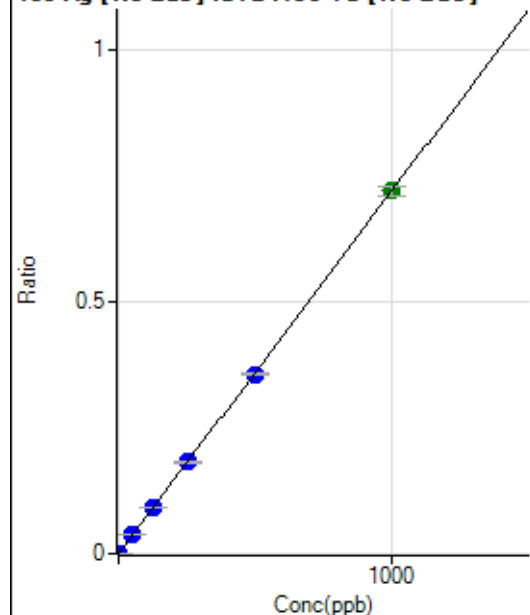
$$DL = 0.2057$$

$$BEC = 0.06835$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	13.33	0.0000	P	24.7
2	☐	1.000	0.938	2811.41	0.0007	P	5.3
3	☐	50.000	53.062	154556.03	0.0382	P	2.3
4	☐	125.000	127.856	387766.76	0.0920	P	0.9
5	☐	250.000	252.211	772096.59	0.1814	P	2.0
6	☐	500.000	495.697	1503509.44	0.3565	P	2.0
7	☐	1000.000	1001.089	3074234.15	0.7200	A	2.8
8	☐			383.34	0.0001	P	10.5

$$y = 7.1923\text{E-}004 * x + 3.1440\text{E-}006$$

$$R = 1.0000$$

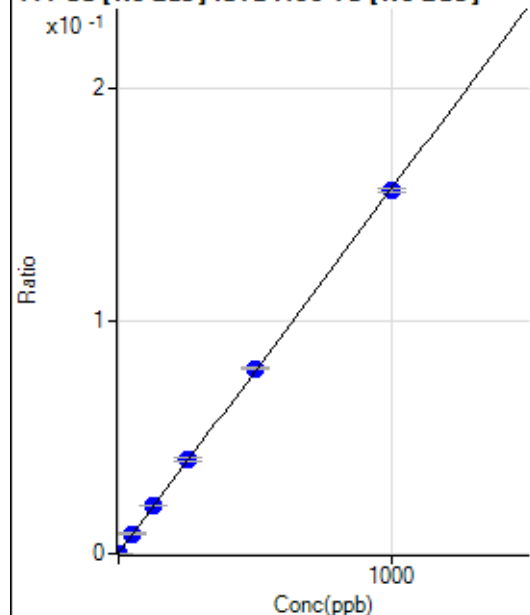
$$DL = 0.003246$$

$$BEC = 0.004371$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	818.37	0.0002	P	9.1
2	☐	1.000	1.128	1533.41	0.0004	P	4.6
3	☐	50.000	53.588	34777.48	0.0086	P	2.9
4	☐	125.000	129.581	86418.87	0.0205	P	1.7
5	☐	250.000	257.226	172348.61	0.0405	P	2.4
6	☐	500.000	506.956	335792.21	0.0796	P	0.9
7	☐	1000.000	993.963	665755.11	0.1559	P	1.2
8	☐			838.93	0.0002	P	3.1

$$y = 1.5668\text{E-}004 * x + 1.9302\text{E-}004$$

$$R = 0.9999$$

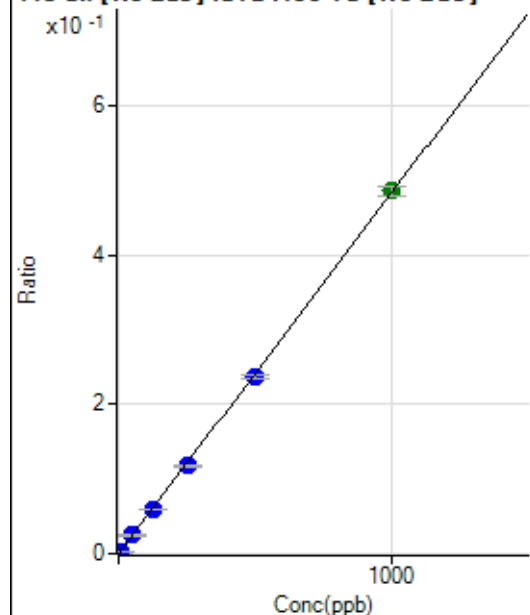
$$DL = 0.335$$

$$BEC = 1.232$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	261.12	0.0001	P	2.4
2	☐	5.000	4.843	9956.85	0.0024	P	1.8
3	☐	50.000	50.644	99304.99	0.0245	P	2.2
4	☐	125.000	123.185	251141.36	0.0596	P	0.9
5	☐	250.000	244.976	503882.60	0.1184	P	2.0
6	☐	500.000	489.845	997989.61	0.2367	P	2.0
7	☐	1000.000	1006.529	2075876.64	0.4862	A	2.6
8	☐			2475.79	0.0006	P	4.7

$$y = 4.8299\text{E-}004 * x + 6.1600\text{E-}005$$

$$R = 0.9999$$

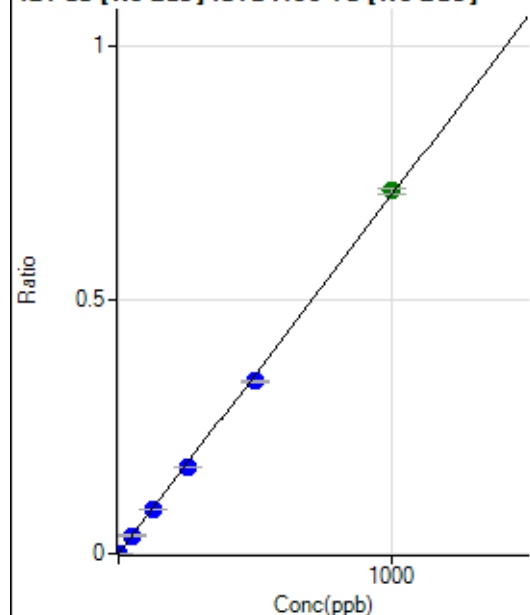
$$DL = 0.009271$$

$$BEC = 0.1275$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	17.78	0.0000	P	57.1
2	☐	2.000	1.805	5313.25	0.0013	P	0.4
3	☐	50.000	50.302	144094.55	0.0356	P	2.7
4	☐	125.000	121.848	363442.10	0.0862	P	1.1
5	☐	250.000	241.634	727575.05	0.1709	P	1.3
6	☐	500.000	480.918	1434613.26	0.3402	P	1.2
7	☐	1000.000	1012.012	3056371.52	0.7158	A	1.7
8	☐			2230.20	0.0005	P	5.4

$$y = 7.0734\text{E-}004 * x + 4.1870\text{E-}006$$

$$R = 0.9997$$

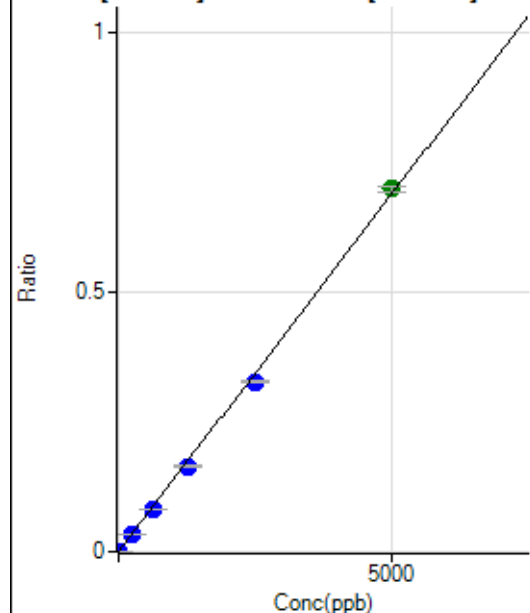
$$DL = 0.01015$$

$$BEC = 0.005919$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	12.22	0.0000	P	96.0
2	☐	10.000	9.259	5299.93	0.0013	P	1.3
3	☐	250.000	247.753	138142.45	0.0341	P	2.8
4	☐	625.000	600.767	348809.39	0.0827	P	0.9
5	☐	1250.000	1193.664	699600.72	0.1644	P	1.7
6	☐	2500.000	2380.012	1381921.92	0.3277	P	2.1
7	☐	5000.000	5077.221	2984892.98	0.6991	A	1.5
8	☐			1173.39	0.0003	P	7.2

$$y = 1.3769\text{E-}004 * x + 2.8752\text{E-}006$$

$$R = 0.9995$$

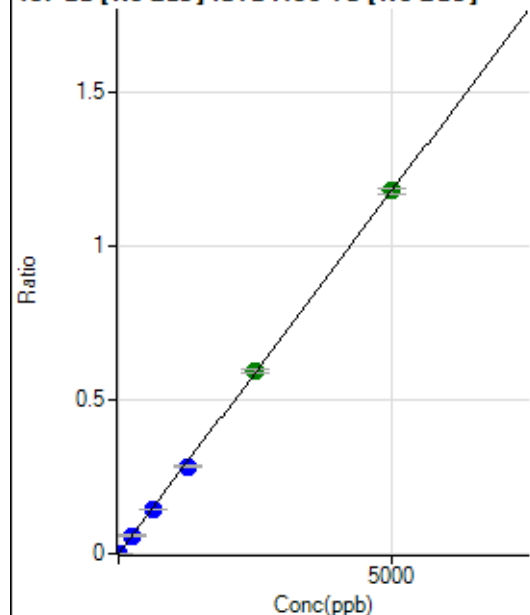
$$DL = 0.06015$$

$$BEC = 0.02088$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	21.11	0.0000	P	65.0
2	☐	10.000	9.454	9266.42	0.0022	P	1.8
3	☐	250.000	249.852	238589.68	0.0589	P	2.3
4	☐	625.000	609.041	605579.48	0.1436	P	0.7
5	☐	1250.000	1200.271	1204542.61	0.2830	P	2.4
6	☐	2500.000	2521.171	2507014.51	0.5945	A	2.9
7	☐	5000.000	5003.850	5037923.12	1.1799	A	1.5
8	☐			1955.71	0.0005	P	2.7

$$y = 2.3579\text{E-}004 * x + 4.9651\text{E-}006$$

$$R = 0.9999$$

$$DL = 0.04108$$

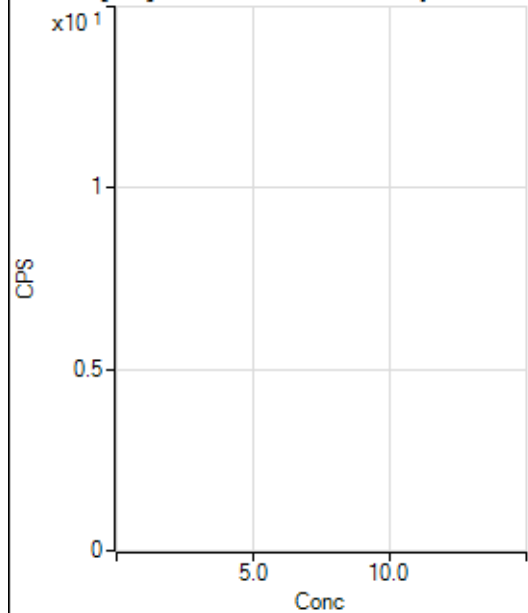
$$BEC = 0.02106$$

Weight: <None>

Min Conc: 0

150 Nd [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			3.33		P	173.
2	☐			5.56		P	34.7
3	☐			13.34		P	43.3
4	☐			27.78		P	30.2
5	☐			33.33		P	60.8
6	☐			87.78		P	19.5
7	☐			160.00		P	11.0
8	☐			48.89		P	23.9

150 Nd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			3.33		P	100.
2	☐			0.00		P	
3	☐			0.00		P	
4	☐			5.56		P	91.6
5	☐			10.00		P	88.2
6	☐			33.33		P	30.0
7	☐			64.44		P	3.0
8	☐			22.22		P	22.9

156 Dy [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			18.89		P	27.0
2	☐			13.33		P	43.3
3	☐			14.44		P	81.1
4	☐			11.11		P	69.3
5	☐			30.00		P	50.9
6	☐			50.00		P	43.7
7	☐			101.11		P	23.9
8	☐			117.78		P	4.3

156 Dy [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			4.44		P	43.4
2	☐			3.33		P	100.
3	☐			13.33		P	66.1
4	☐			38.89		P	13.1
5	☐			40.00		P	25.0
6	☐			64.44		P	29.4
7	☐			131.11		P	24.7
8	☐			70.00		P	12.6

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			35.56		P	53.3
2	☐			25.55		P	52.7
3	☐			18.89		P	20.4
4	☐			31.11		P	43.3
5	☐			35.55		P	44.3
6	☐			50.00		P	6.7
7	☐			81.11		P	15.6
8	☐			83.33		P	20.0

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			126.67		P	7.0
2	☐			126.67		P	16.0
3	☐			131.11		P	15.3
4	☐			112.22		P	21.9
5	☐			142.23		P	9.8
6	☐			151.11		P	12.2
7	☐			155.56		P	19.4
8	☐			153.34		P	27.2

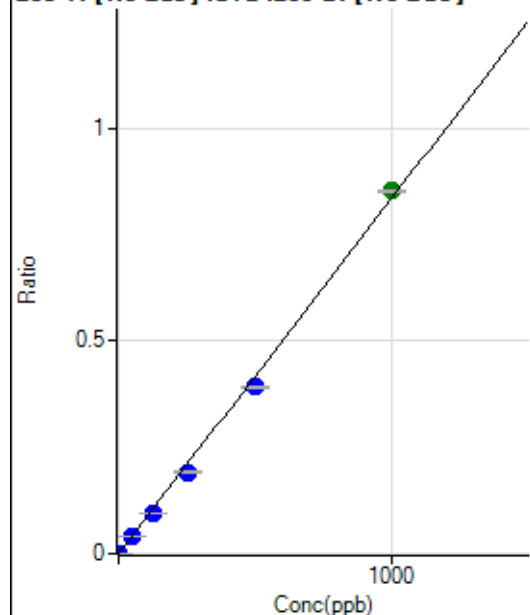
164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			41.11		P	32.8
2	☐			34.44		P	24.3
3	☐			40.00		P	22.0
4	☐			35.56		P	51.6
5	☐			44.44		P	41.3
6	☐			61.11		P	30.0
7	☐			101.11		P	14.9
8	☐			107.78		P	3.6

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			15.56		P	53.9
2	☐			17.78		P	39.0
3	☐			18.89		P	53.9
4	☐			24.44		P	47.9
5	☐			37.78		P	27.0
6	☐			33.33		P	20.0
7	☐			46.67		P	31.1
8	☐			76.67		P	35.6

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	14.45	0.0000	P	25.8
2	☐	1.000	0.896	1754.58	0.0008	P	5.7
3	☐	50.000	46.845	89494.50	0.0391	P	2.0
4	☐	125.000	114.446	229742.10	0.0956	P	2.9
5	☐	250.000	228.387	474220.05	0.1907	P	2.2
6	☐	500.000	470.053	964395.39	0.3925	P	0.7
7	☐	1000.000	1021.854	2189236.39	0.8533	A	0.8
8	☐			343.34	0.0001	P	14.9

$$y = 8.3502\text{E-}004 * x + 6.2217\text{E-}006$$

$$R = 0.9991$$

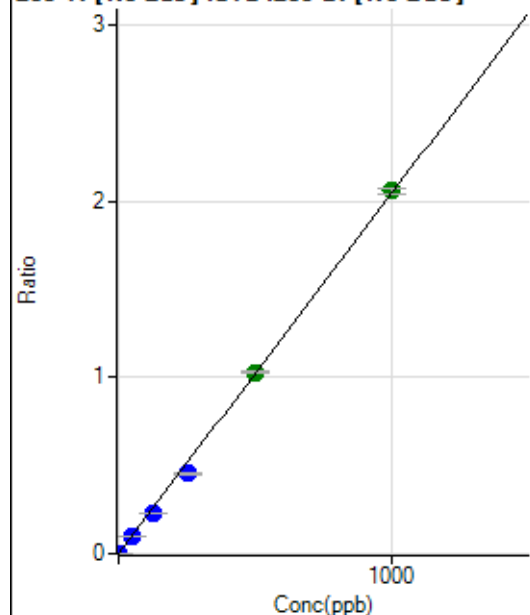
$$DL = 0.005762$$

$$BEC = 0.007451$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	21.11	0.0000	P	35.0
2	☐	1.000	0.857	4093.99	0.0018	P	4.2
3	☐	50.000	45.676	213623.35	0.0934	P	1.3
4	☐	125.000	110.873	544754.40	0.2266	P	1.6
5	☐	250.000	222.972	1133159.52	0.4557	P	2.3
6	☐	500.000	503.437	2528100.90	1.0289	A	0.7
7	☐	1000.000	1007.021	5280156.94	2.0581	A	1.8
8	☐			838.92	0.0004	P	13.8

$$y = 0.0020 * x + 9.0827\text{E-}006$$

$$R = 0.9996$$

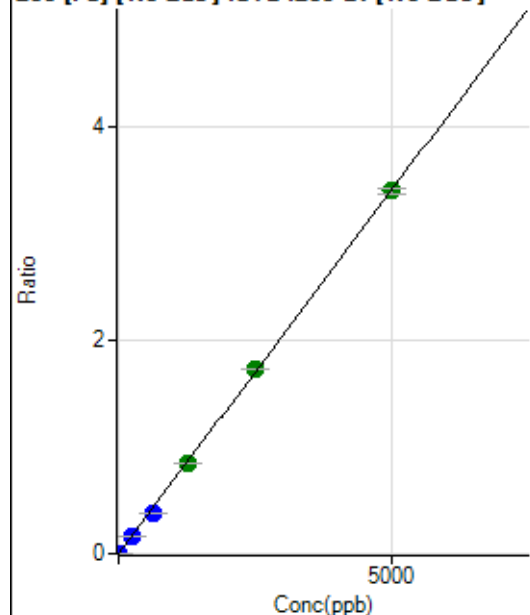
$$DL = 0.004669$$

$$BEC = 0.004444$$

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	58.89	0.0000	P	8.0
2	☐	1.000	0.795	1318.97	0.0006	P	2.7
3	☐	250.000	230.055	358115.15	0.1566	P	2.4
4	☐	625.000	553.116	904741.95	0.3764	P	1.3
5	☐	1250.000	1245.670	2107999.08	0.8476	A	1.6
6	☐	2500.000	2538.627	4244024.97	1.7273	A	0.7
7	☐	5000.000	4991.752	8714988.14	3.3964	A	1.5
8	☐			2378.01	0.0010	P	1.9

$$y = 6.8040\text{E-}004 * x + 2.5399\text{E-}005$$

$$R = 0.9998$$

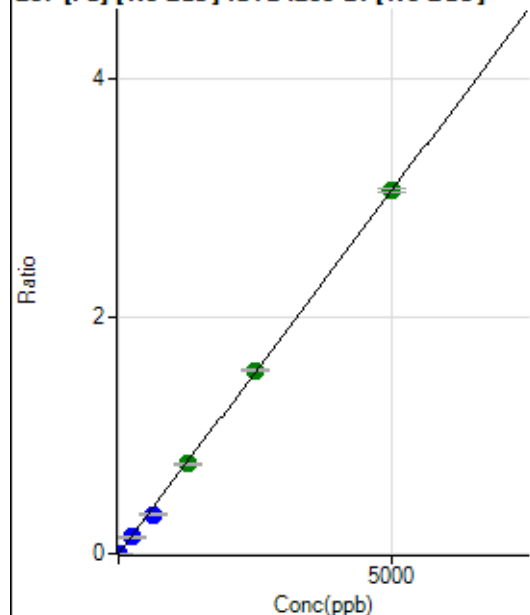
$$DL = 0.008974$$

$$BEC = 0.03733$$

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	50.00	0.0000	P	12.7
2	☐	1.000	0.883	1307.85	0.0006	P	4.6
3	☐	250.000	225.897	316100.35	0.1382	P	2.2
4	☐	625.000	542.582	797806.98	0.3319	P	1.6
5	☐	1250.000	1235.442	1879051.14	0.7557	A	1.9
6	☐	2500.000	2530.574	3802934.60	1.5478	A	1.9
7	☐	5000.000	4999.860	7846202.73	3.0581	A	1.0
8	☐			2196.87	0.0009	P	3.7

$$y = 6.1164\text{E-}004 * x + 2.1596\text{E-}005$$

$$R = 0.9998$$

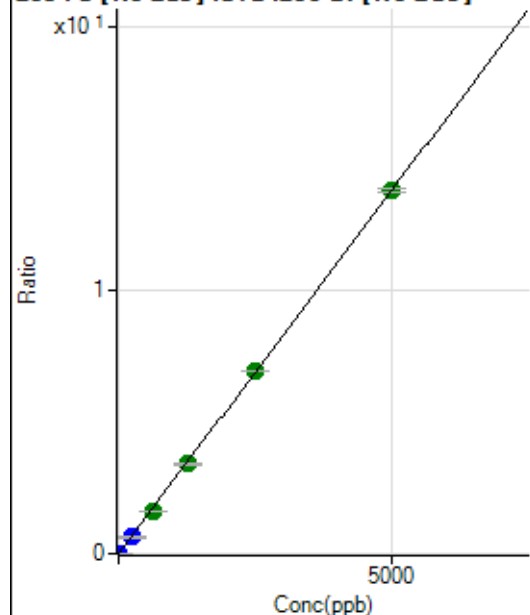
$$DL = 0.01349$$

$$BEC = 0.03531$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	247.78	0.0001	P	3.1
2	☐	1.000	0.846	5678.32	0.0024	P	1.3
3	☐	250.000	226.508	1427805.55	0.6241	P	1.5
4	☐	625.000	580.950	3847389.66	1.6006	A	1.1
5	☐	1250.000	1244.008	8522358.38	3.4273	A	2.0
6	☐	2500.000	2518.032	17045035.47	6.9372	A	0.8
7	☐	5000.000	4999.163	35336885.17	13.7726	A	0.9
8	☐			9772.60	0.0041	P	3.4

$$y = 0.0028 * x + 1.0693E-004$$

$$R = 0.9999$$

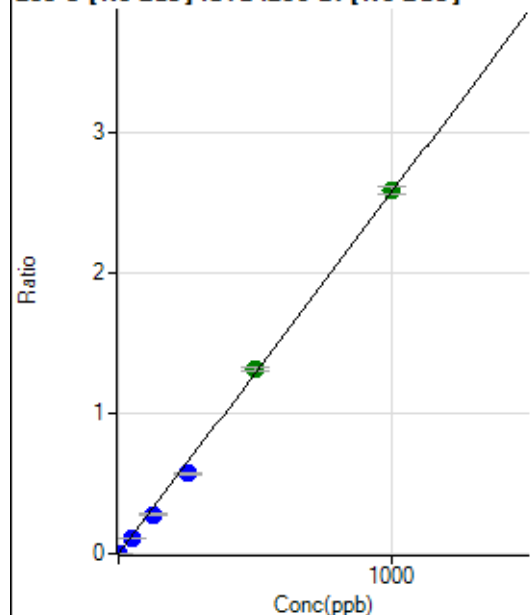
$$DL = 0.003586$$

$$BEC = 0.03881$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	12.22	0.0000	P	69.4
2	☐	1.000	0.843	5052.12	0.0022	P	6.2
3	☐	50.000	44.043	258966.90	0.1132	P	0.4
4	☐	125.000	108.254	668755.97	0.2782	P	1.9
5	☐	250.000	221.659	1416367.60	0.5696	P	2.1
6	☐	500.000	510.978	3226467.76	1.3131	A	2.3
7	☐	1000.000	1003.988	6619449.77	2.5800	A	2.1
8	☐			448.90	0.0002	P	18.9

$$y = 0.0026 * x + 5.2831E-006$$

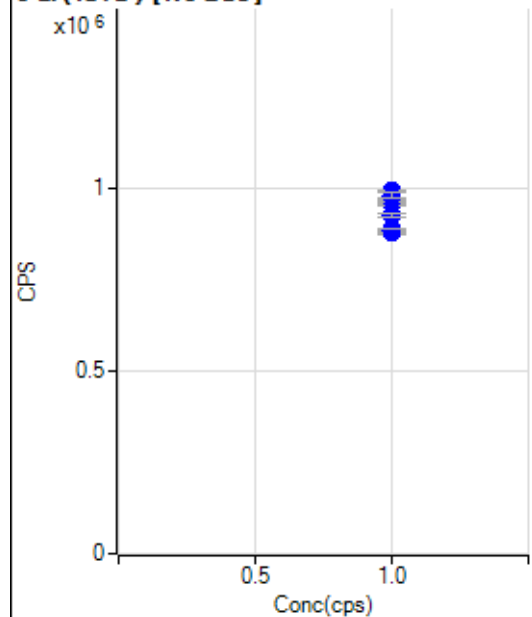
$$R = 0.9994$$

$$DL = 0.00428$$

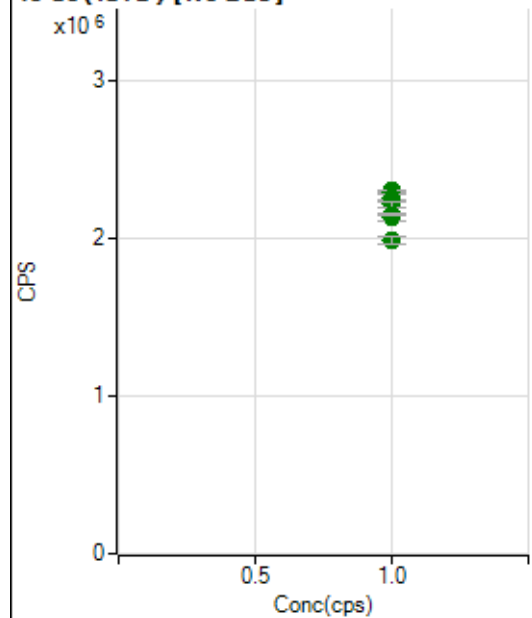
$$BEC = 0.002056$$

Weight: <None>

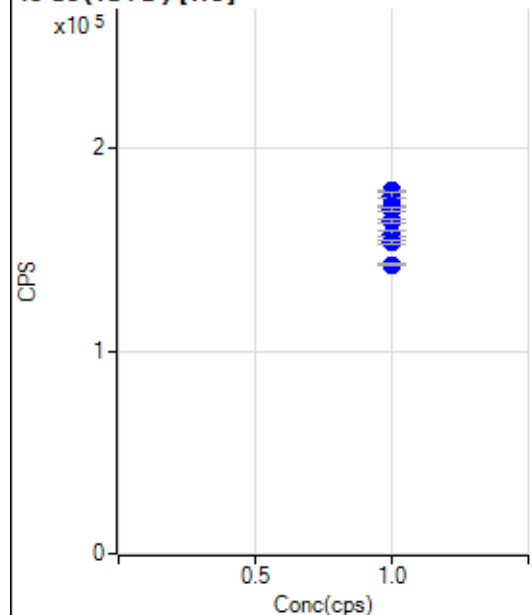
Min Conc: 0

6 Li (ISTD) [No Gas]

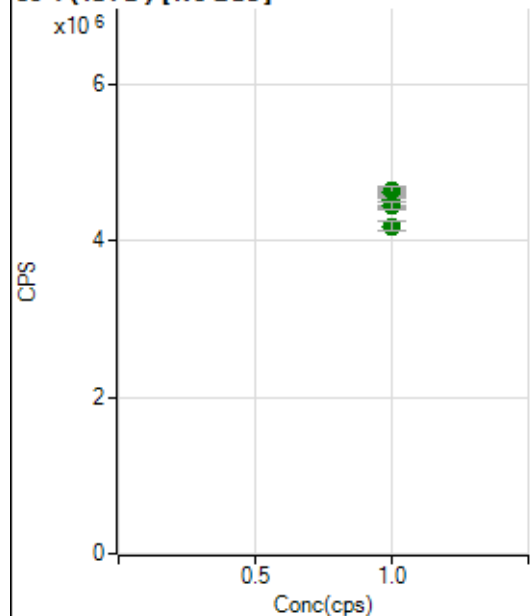
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		881602.52		P	1.2
2	☐	1.000		885823.99		P	1.5
3	☐	1.000		890780.97		P	0.4
4	☐	1.000		928143.50		P	1.0
5	☐	1.000		959053.29		P	0.6
6	☐	1.000		968448.88		P	0.8
7	☐	1.000		994659.93		P	0.7
8	☐	1.000		981952.31		P	1.4

45 Sc (ISTD) [No Gas]

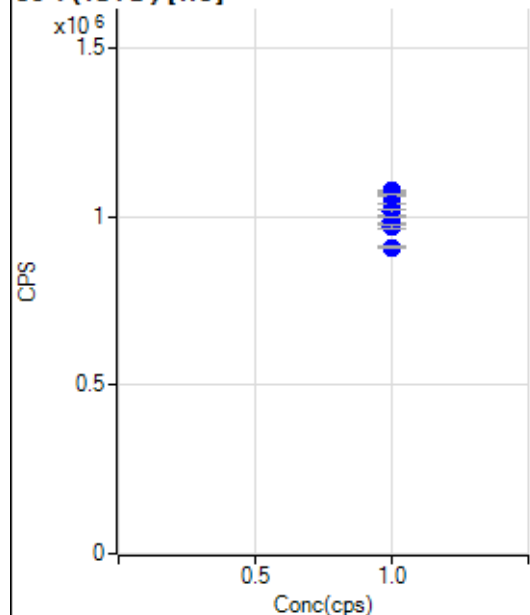
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2305312.31		A	0.8
2	☐	1.000		2296945.95		A	1.3
3	☐	1.000		2260430.14		A	1.8
4	☐	1.000		2243141.55		A	0.7
5	☐	1.000		2218271.35		A	1.3
6	☐	1.000		2142021.17		A	2.1
7	☐	1.000		2156539.67		A	0.5
8	☐	1.000		1993299.95		A	2.8

45 Sc (ISTD) [He]

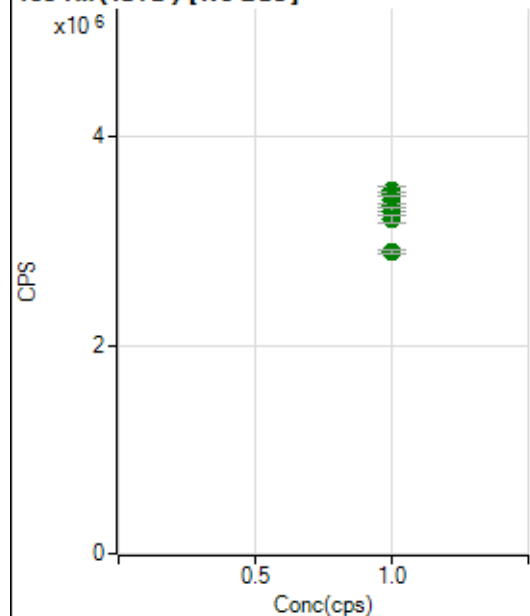
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		178912.80		P	0.7
2	☐	1.000		176427.46		P	1.6
3	☐	1.000		171373.67		P	0.8
4	☐	1.000		169807.73		P	1.2
5	☐	1.000		164086.21		P	0.7
6	☐	1.000		157683.90		P	2.0
7	☐	1.000		153208.90		P	1.3
8	☐	1.000		142652.62		P	1.0

89 Y (ISTD) [No Gas]

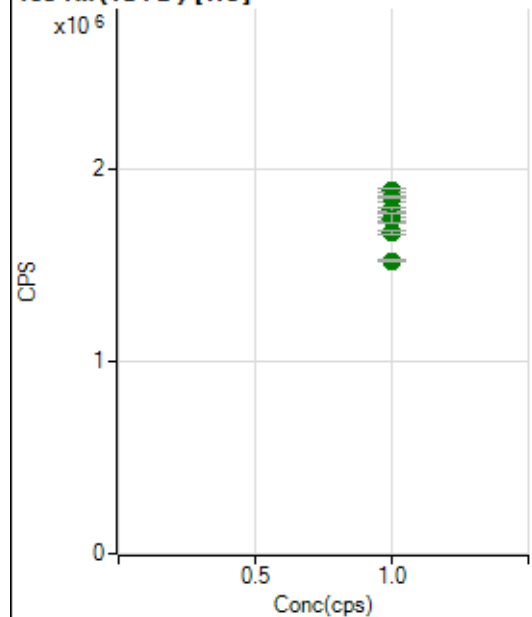
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4632055.62		A	0.7
2	☐	1.000		4625105.56		A	1.8
3	☐	1.000		4608271.01		A	1.6
4	☐	1.000		4616335.07		A	2.8
5	☐	1.000		4507780.07		A	2.7
6	☐	1.000		4484859.48		A	2.4
7	☐	1.000		4440403.89		A	2.0
8	☐	1.000		4183131.22		A	3.1

89 Y (ISTD) [He]

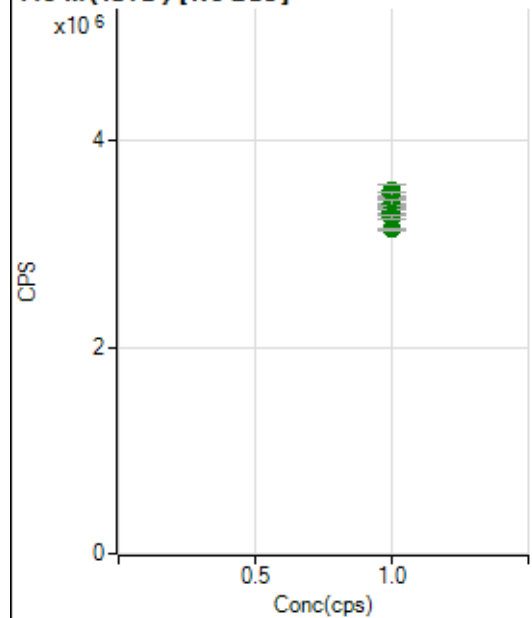
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1077144.07		P	0.5
2	☐	1.000		1068600.68		P	0.9
3	☐	1.000		1062524.05		P	0.5
4	☐	1.000		1037972.08		P	0.3
5	☐	1.000		1014436.37		P	1.5
6	☐	1.000		989988.65		P	1.6
7	☐	1.000		968279.74		P	1.2
8	☐	1.000		910486.65		P	0.9

103 Rh (ISTD) [No Gas]

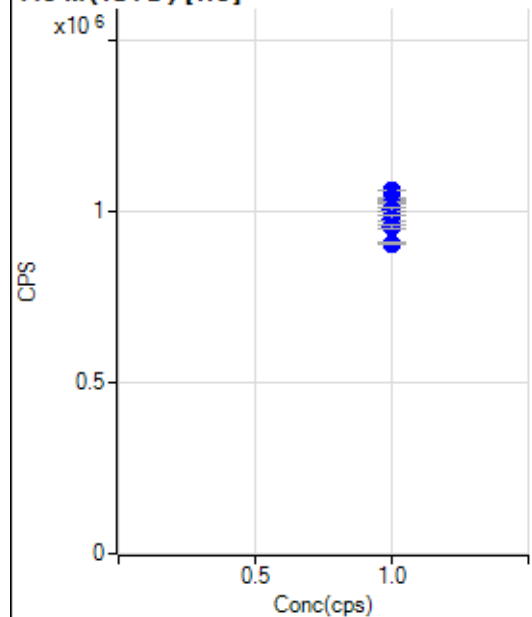
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3485653.42		A	2.6
2	☐	1.000		3451136.55		A	1.2
3	☐	1.000		3322174.92		A	2.1
4	☐	1.000		3402583.70		A	1.9
5	☐	1.000		3348586.06		A	1.0
6	☐	1.000		3295225.82		A	2.3
7	☐	1.000		3207255.23		A	2.3
8	☐	1.000		2897065.44		A	1.3

103 Rh (ISTD) [He]

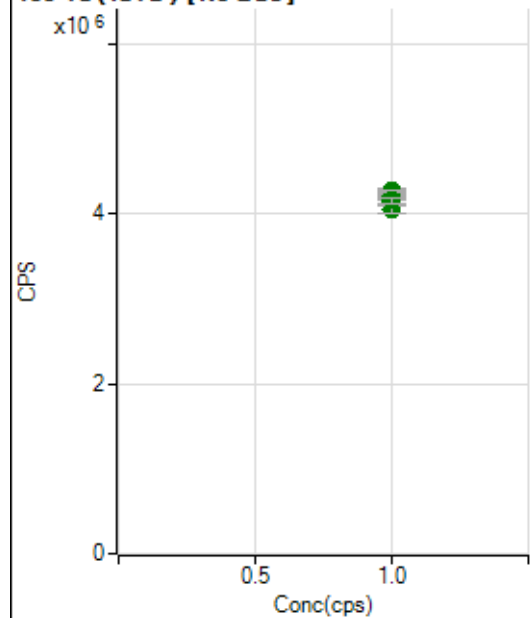
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1891394.03		A	0.9
2	☐	1.000		1852035.11		A	1.5
3	☐	1.000		1859479.50		A	0.2
4	☐	1.000		1792563.05		A	1.1
5	☐	1.000		1744020.30		A	1.1
6	☐	1.000		1748867.85		A	2.7
7	☐	1.000		1675269.06		A	0.7
8	☐	1.000		1527154.70		A	0.6

115 In (ISTD) [No Gas]

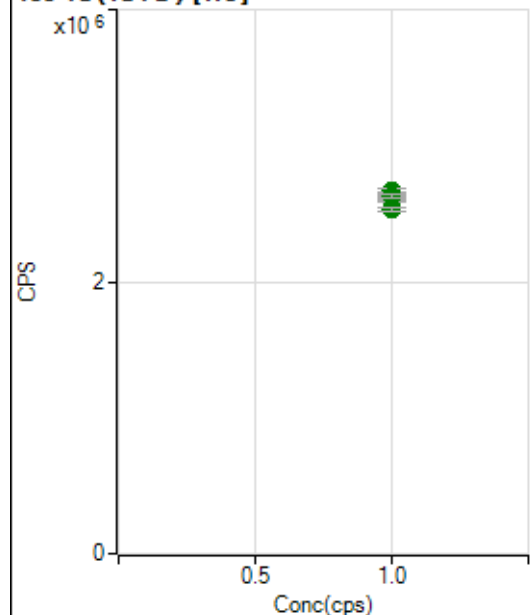
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3515114.08		A	3.0
2	☐	1.000		3477277.18		A	1.3
3	☐	1.000		3324483.88		A	1.8
4	☐	1.000		3371408.42		A	1.1
5	☐	1.000		3399933.39		A	1.6
6	☐	1.000		3305188.62		A	1.7
7	☐	1.000		3261889.00		A	0.9
8	☐	1.000		3144951.62		A	0.4

115 In (ISTD) [He]

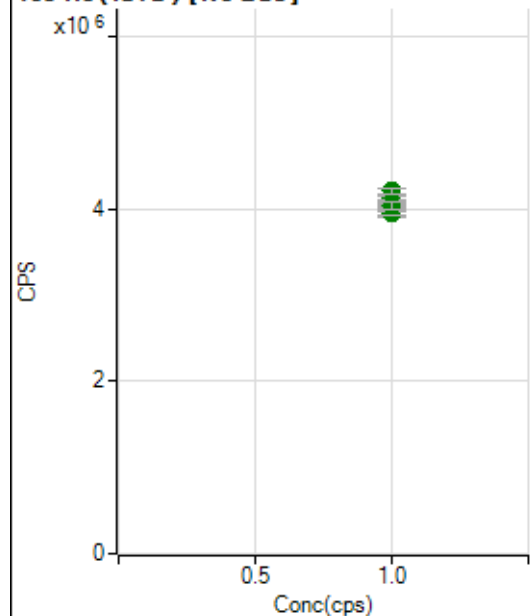
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1059719.48		P	0.2
2	☐	1.000		1037726.54		P	0.5
3	☐	1.000		1038776.05		P	0.6
4	☐	1.000		1023480.47		P	0.5
5	☐	1.000		1006111.79		P	0.7
6	☐	1.000		979656.54		P	2.1
7	☐	1.000		953949.33		P	1.0
8	☐	1.000		905695.64		P	0.7

159 Tb (ISTD) [No Gas]

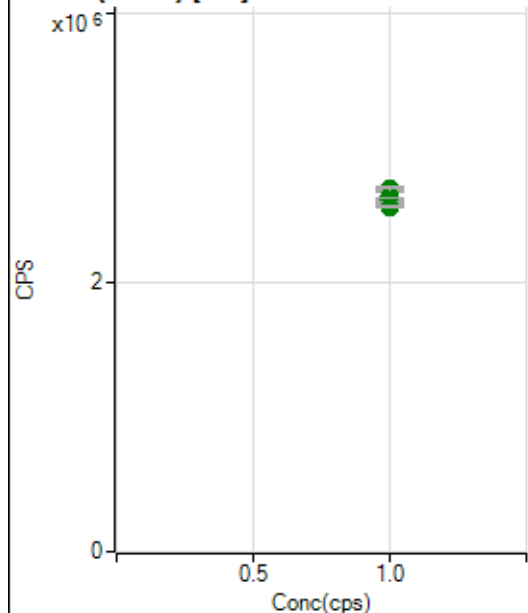
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4238338.13		A	0.8
2	☐	1.000		4147833.03		A	0.9
3	☐	1.000		4050918.62		A	2.4
4	☐	1.000		4216926.12		A	1.1
5	☐	1.000		4257734.76		A	2.5
6	☐	1.000		4217570.74		A	0.9
7	☐	1.000		4269795.87		A	0.5
8	☐	1.000		4154861.81		A	1.7

159 Tb (ISTD) [He]

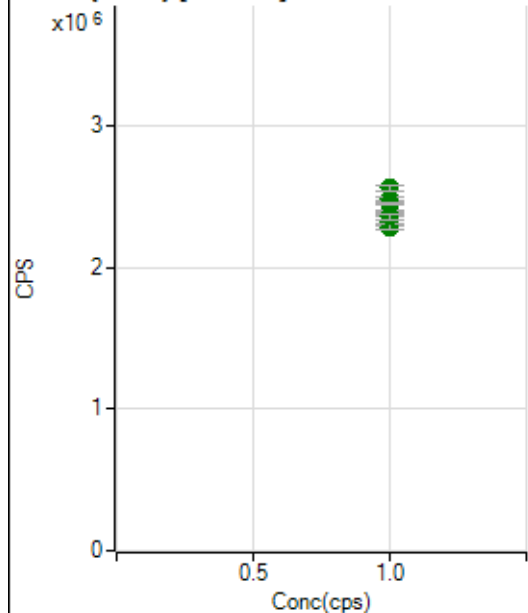
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2641448.19		A	1.8
2	☐	1.000		2625745.08		A	0.6
3	☐	1.000		2649875.60		A	0.4
4	☐	1.000		2596414.32		A	1.0
5	☐	1.000		2637154.53		A	1.9
6	☐	1.000		2669062.93		A	1.2
7	☐	1.000		2629643.68		A	1.4
8	☐	1.000		2530494.30		A	1.2

165 Ho (ISTD) [No Gas]

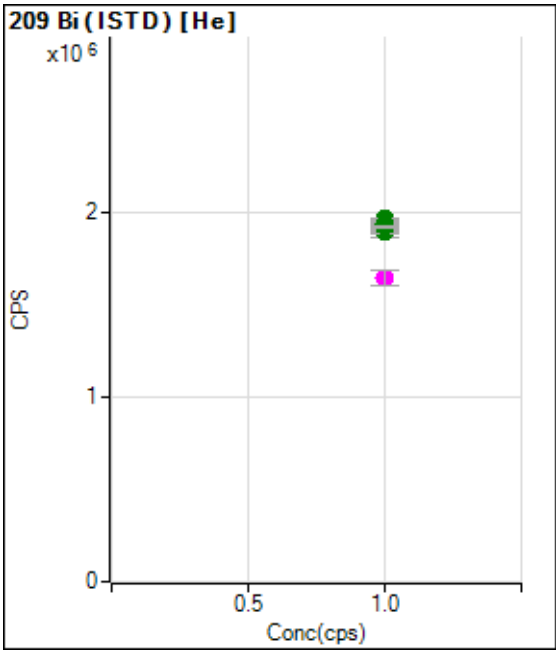
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3952020.36		A	2.5
2	☐	1.000		3956220.60		A	2.0
3	☐	1.000		3949160.95		A	0.9
4	☐	1.000		4068781.19		A	2.1
5	☐	1.000		4053111.47		A	0.8
6	☐	1.000		4124858.20		A	0.9
7	☐	1.000		4211283.55		A	1.6
8	☐	1.000		4039691.16		A	2.3

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2676286.33		A	3.7
2	☐	1.000		2636259.98		A	3.1
3	☐	1.000		2587490.83		A	0.6
4	☐	1.000		2628203.08		A	0.3
5	☐	1.000		2699784.56		A	0.9
6	☐	1.000		2654338.47		A	3.3
7	☐	1.000		2619065.50		A	1.0
8	☐	1.000		2562747.08		A	0.6

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2317671.81		A	1.4
2	☐	1.000		2328664.76		A	3.1
3	☐	1.000		2288025.00		A	1.7
4	☐	1.000		2403777.15		A	0.7
5	☐	1.000		2487060.66		A	1.5
6	☐	1.000		2457053.33		A	0.6
7	☐	1.000		2565890.62		A	1.4
8	☐	1.000		2360395.49		A	2.2



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1890940.89		A	2.7
2	☐	1.000		1892866.29		A	0.5
3	☐	1.000		1908166.50		A	2.5
4	☐	1.000		1942880.91		A	1.8
5	☐	1.000		1961217.73		A	0.8
6	☐	1.000		1931737.42		A	1.7
7	☐	1.000		1918831.46		A	0.5
8	☐	1.000		1641823.76		M	5.5

US EPA Tune Check Report

Operator Name Jaswal

Acq/Data Batch D:\Agilent\ICPMH\1\DATA\IP7090924-MS.b

Acq. Date-Time 2024-09-09 09:13:02

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		3556	35564.78			1.136	5.000
24		45476	454764.85			3.019	5.000
25		5826	58260.19			2.818	5.000
26		6981	69809.90			2.088	5.000
59		28922	289216.00			1.684	5.000
113		3813	38128.40			1.366	5.000
115		43626	436258.11			1.771	5.000
206		7936	79361.02			1.746	5.000
207		7052	70524.92			1.518	5.000
208		16659	166592.04			2.181	5.000
220		1	8.50			17.150	

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

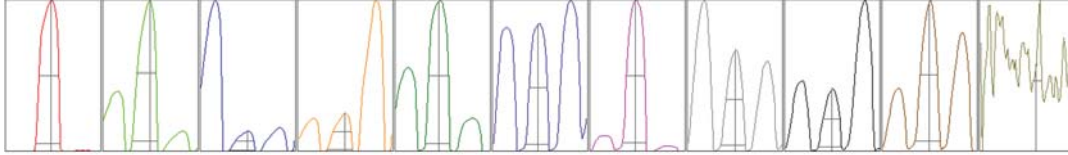
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	3485	3574	3583	3563	3577
24	43316	45046	45821	46454	46745
25	5551	5800	5907	5915	5957
26	6728	7043	7026	7008	7101
59	28092	28905	29084	29267	29260
113	3726	3802	3849	3846	3841
115	42474	43290	43784	44428	44153
206	7728	7868	8008	7998	8078
207	6874	7058	7059	7137	7134
208	16025	16757	16752	16948	16814

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	5912.90	8.95	8.90 - 9.10	
24	79793.42	24.00	23.90 - 24.10	
25	10396.21	25.00	24.90 - 25.10	
26	12050.14	26.00	25.90 - 26.10	
59	47504.90	58.90	58.90 - 59.10	
113	6808.38	112.95	112.90 - 113.10	
115	78071.87	114.95	114.90 - 115.10	
206	15035.86	206.05	205.90 - 206.10	
207	13258.04	207.00	206.90 - 207.10	
208	31637.34	208.00	207.90 - 208.10	
220	0.80	220.30	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.64	0.780	0.900	
24	0.61	0.801	0.900	
25	0.59	0.784	0.900	
26	0.58	0.781	0.900	
59	0.64	0.785	0.900	
113	0.57	0.745	0.900	
115	0.57	0.768	0.900	
206	0.53	0.787	0.900	
207	0.53	0.738	0.900	
208	0.54	0.803	0.900	
220	0.28			

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	7.0 V	Deflect	15.8 V
Extract 2	-120.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-65 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	---	OctP RF	200 V		

QP Parameters

Mass Gain	136	Axis Gain	0.9979	QP Bias	-3.0 V
Mass Offset	129	Axis Offset	0.08		

Hardware Settings

Torch

Torch H	0.7 mm	Torch V	0.7 mm
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EM

Discriminator	4.8 mV	Analog HV	2328 V	Pulse HV	1482 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		9469	94692.33			0.504	
89		8596	85955.87			0.630	
205		8456	84557.74			0.851	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	9533	9479	9421	9422	9491
89	8692	8574	8573	8570	8568
205	8537	8481	8493	8354	8414

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	10.0 V	Deflect	4.0 V
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US EPA Tune Check Report

Extract 2	-180.0 V	Cell Entrance	-40 V	Plate Bias	-60 V
Omega Bias	-95 V	Cell Exit	-60 V		
Cell Parameters					
Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	3.9 mL/min	OctP Bias	-18.0 V		
H2 Flow	---	OctP RF	200 V		
QP Parameters					
Mass Gain	136	Axis Gain	0.9979	QP Bias	-13.0 V
Mass Offset	129	Axis Offset	0.08		
Hardware Settings					
Torch					
Torch H	0.7 mm	Torch V	0.7 mm		
EM					
Discriminator	4.8 mV	Analog HV	2328 V	Pulse HV	1482 V