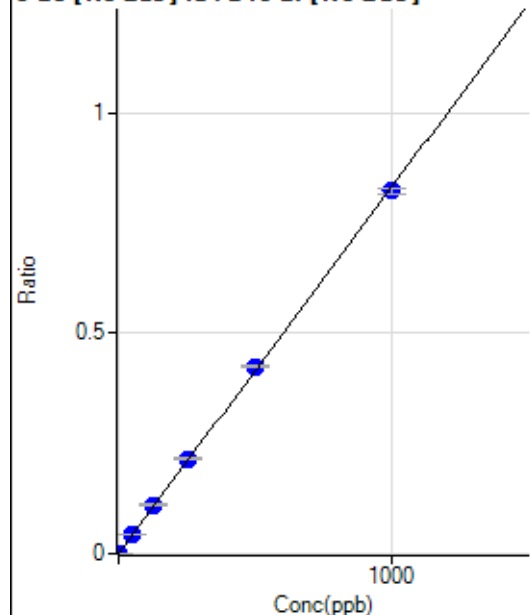


Calibration for 005CALS.d

Batch Folder: D:\Agilent\ICPMH\1\DATA\P7061024-MS.b\
 Analysis File: P7061024-MS.batch.bin
 DA Date-Time: 2024-06-11 00:24:23
 Calibration Title:
 Calibration Method: External Calibration
 VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.d	S00	2024-06-10 13:59:59
2	005CALS.d	S02	2024-06-10 14:03:19
3	006CALS.d	S03	2024-06-10 14:06:40
4	007CALS.d	S04	2024-06-10 14:09:56
5	008CALS.d	S05	2024-06-10 14:13:05
6	009CALS.d	S06	2024-06-10 14:16:07
7	010CALS.d	S07	2024-06-10 14:19:04
8	011CALS.d	S08	2024-06-10 14:21:56

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	36.67	0.0000	P	23.2
2	☐	1.000	1.026	757.80	0.0009	P	3.9
3	☐	50.000	54.035	37652.12	0.0450	P	1.4
4	☐	125.000	133.201	92007.69	0.1107	P	1.3
5	☐	250.000	259.565	174980.84	0.2158	P	0.9
6	☐	500.000	511.663	336754.46	0.4253	P	0.7
7	☐	1000.000	990.550	640827.08	0.8233	P	1.4
8	☐			912.26	0.0012	P	7.2

$$y = 8.3111\text{E-}004 * x + 4.4365\text{E-}005$$

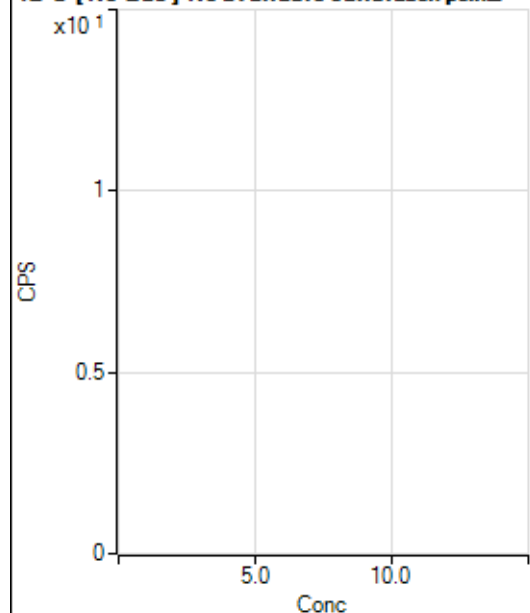
$$R = 0.9998$$

$$DL = 0.03721$$

$$BEC = 0.05338$$

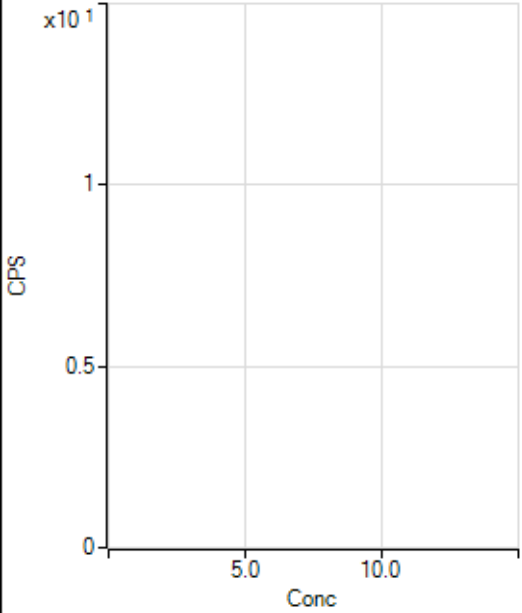
Weight: <None>

Min Conc: 0

12 C [No Gas] No available calibration points

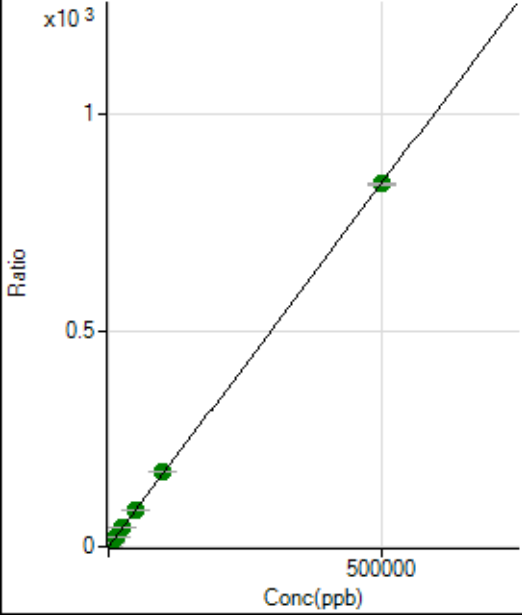
	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐						
2	☐						
3	☐						
4	☐						
5	☐						
6	☐						
7	☐						
8	☐						

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	6359.15	0.0488	P	0.5
2	☐	500.000	494.638	118121.75	0.8811	P	0.2
3	☐	5000.000	5138.524	1149363.54	8.6956	A	0.8
4	☐	12500.000	12973.843	2787453.43	21.8804	A	0.6
5	☐	25000.000	25560.064	5320474.75	43.0598	A	1.2
6	☐	50000.000	51209.243	10381462.83	86.2208	A	1.1
7	☐	100000.00	102912.09	20095632.48	173.2233	A	1.6
8	☐	500000.00	499255.42	102688786.2	840.1671	A	0.5

$y = 0.0017 * x + 0.0488$

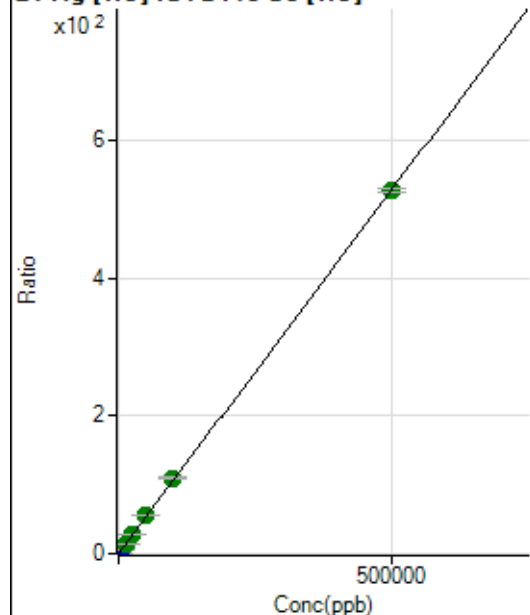
$R = 1.0000$

$DL = 0.4594$

$BEC = 28.99$

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	2991.43	0.0230	P	1.5
2	☐	500.000	496.185	73228.43	0.5463	P	1.3
3	☐	5000.000	5490.422	768456.68	5.8137	P	0.1
4	☐	12500.000	13280.886	1787426.60	14.0304	A	0.7
5	☐	25000.000	26046.717	3397130.33	27.4945	A	1.5
6	☐	50000.000	52065.309	6614590.25	54.9365	A	0.6
7	☐	100000.00	103621.85	12678986.62	109.3134	A	3.0
8	☐	500000.00	498992.33	64327915.16	526.3123	A	1.0

$$y = 0.0011 * x + 0.0230$$

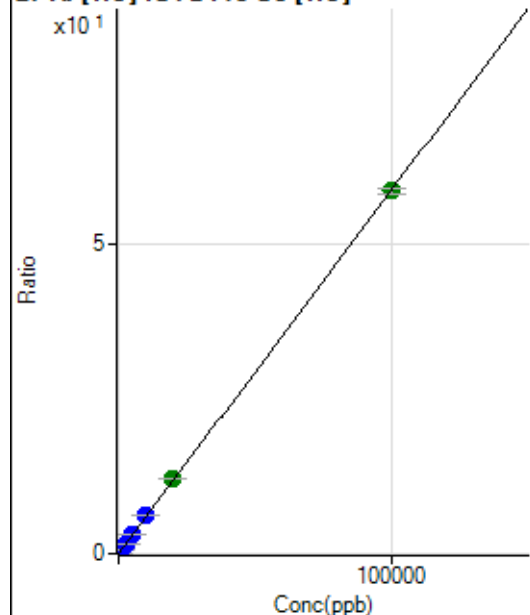
$$R = 1.0000$$

$$DL = 1.007$$

$$BEC = 21.76$$

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	234.45	0.0018	P	15.7
2	☐	20.000	18.106	1665.66	0.0124	P	5.0
3	☐	1000.000	1073.246	83498.59	0.6317	P	0.2
4	☐	2500.000	2657.338	198913.87	1.5614	P	0.6
5	☐	5000.000	5291.250	383942.62	3.1073	P	1.0
6	☐	10000.000	10490.187	741529.55	6.1587	P	0.4
7	☐	20000.000	20659.566	1406879.56	12.1273	A	1.5
8	☐	100000.00	99799.840	7159481.77	58.5761	A	1.3

$$y = 5.8692E-004 * x + 0.0018$$

$$R = 1.0000$$

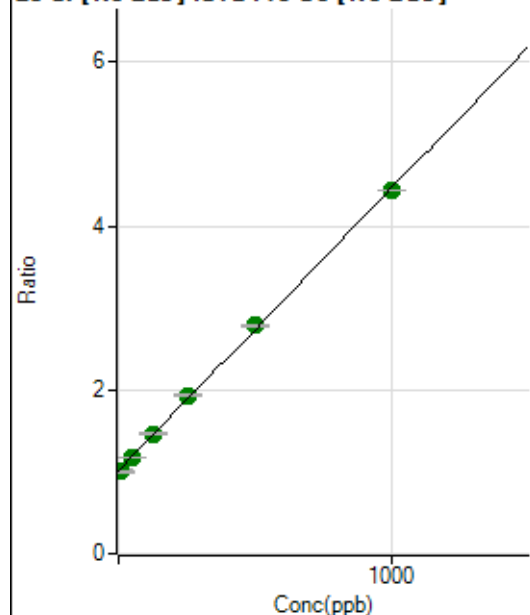
$$DL = 1.445$$

$$BEC = 3.059$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1592486.37	1.0165	A	2.4
2	☐	10.000	-4.307	1615093.27	1.0016	A	1.6
3	☐	50.000	48.116	1867697.65	1.1825	A	0.2
4	☐	125.000	130.380	2315848.35	1.4663	A	2.1
5	☐	250.000	264.555	2919414.61	1.9292	A	1.6
6	☐	500.000	513.056	4180772.96	2.7865	A	0.8
7	☐	1000.000	989.398	6403688.31	4.4299	A	0.1
8	☐			1673095.43	1.1446	A	1.0

$$y = 0.0035 * x + 1.0165$$

$$R = 0.9995$$

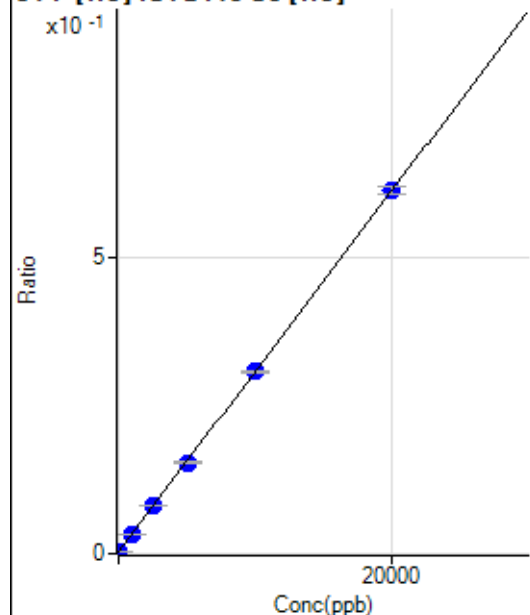
$$DL = 21.53$$

$$BEC = 294.6$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	-11.070	393.34	0.0030	P	10.3
2	☐	0.000	11.070	494.46	0.0037	P	10.6
3	☐	1000.000	984.952	4412.90	0.0334	P	1.7
4	☐	2500.000	2560.887	10375.81	0.0814	P	1.4
5	☐	5000.000	4950.845	19069.75	0.1543	P	0.6
6	☐	10000.000	9996.175	37104.86	0.3082	P	0.7
7	☐	20000.000	20007.343	71158.75	0.6134	P	2.1
8	☐			472.24	0.0039	P	4.4

$$y = 3.0493E-005 * x + 0.0034$$

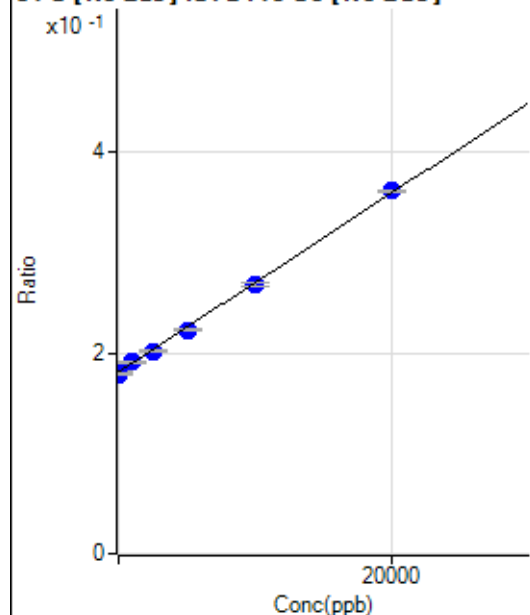
$$R = 1.0000$$

$$DL = 34.55$$

$$BEC = 110$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	244.678	286893.76	0.1831	P	1.8
2	☐	0.000	-244.678	288248.52	0.1788	P	0.9
3	☐	1000.000	1095.085	301221.20	0.1907	P	0.8
4	☐	2500.000	2339.968	318754.85	0.2018	P	1.6
5	☐	5000.000	4685.050	337029.88	0.2227	P	0.8
6	☐	10000.000	9758.995	401990.23	0.2679	P	0.9
7	☐	20000.000	20214.490	522016.19	0.3611	P	0.8
8	☐			280945.68	0.1922	P	1.5

$$y = 8.9139\text{E-}006 * x + 0.1809$$

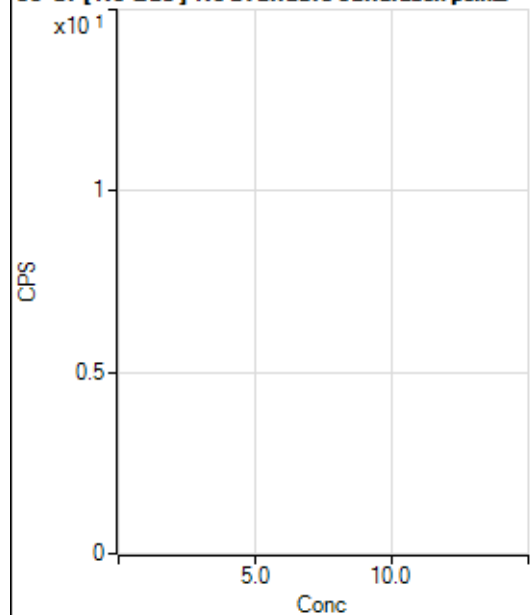
$$R = 0.9995$$

$$DL = 836.5$$

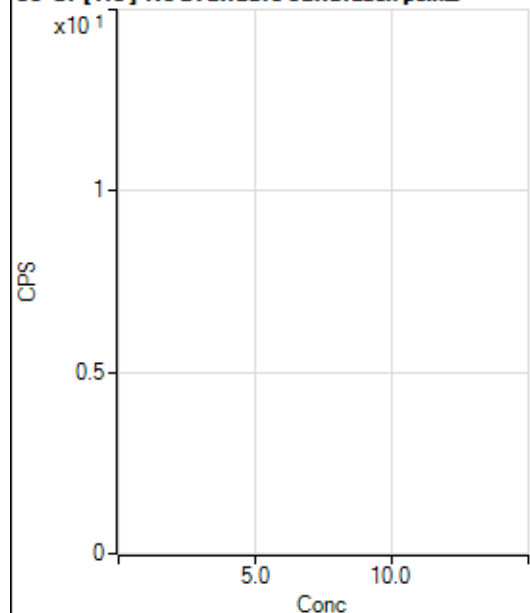
$$BEC = 2.03\text{E}+04$$

Weight: <None>

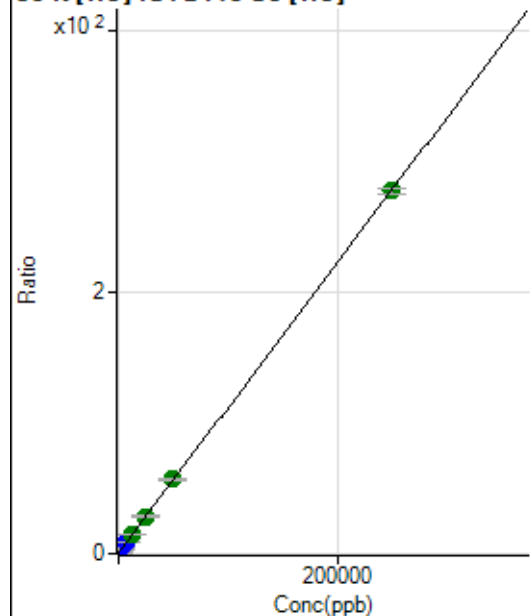
Min Conc: 0

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	82038.27	0.6295	P	2.7
2	☐	500.000	489.523	157106.04	1.1720	P	0.8
3	☐	2500.000	2756.723	486992.78	3.6844	P	0.8
4	☐	6250.000	6872.750	1050407.79	8.2456	P	0.8
5	☐	12500.000	12802.600	1830756.50	14.8168	A	1.2
6	☐	25000.000	25253.154	3445104.67	28.6139	A	1.0
7	☐	50000.000	50873.579	6613102.54	57.0052	A	1.7
8	☐	250000.00	249766.72	33905860.88	277.4091	A	1.5

$$y = 0.0011 * x + 0.6295$$

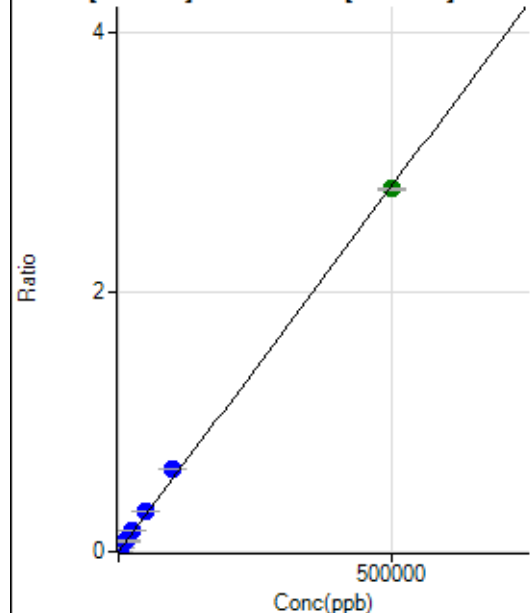
$$R = 1.0000$$

$$DL = 45.97$$

$$BEC = 568.1$$

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	210.00	0.0001	P	12.5
2	☐	500.000	487.434	4634.08	0.0029	P	2.3
3	☐	5000.000	5874.196	52362.18	0.0332	P	1.1
4	☐	12500.000	14453.909	128548.47	0.0814	P	1.0
5	☐	25000.000	28779.209	245012.30	0.1619	P	0.7
6	☐	50000.000	56202.742	474170.59	0.3160	P	0.9
7	☐	100000.00	112931.58	917772.46	0.6349	P	0.9
8	☐	500000.00	496546.87	4079771.64	2.7912	A	0.7

$$y = 5.6209\text{E-}006 * x + 1.3391\text{E-}004$$

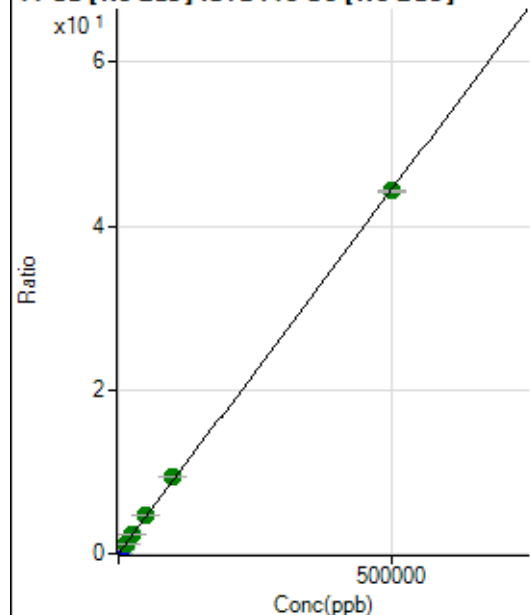
$$R = 0.9996$$

$$DL = 8.936$$

$$BEC = 23.82$$

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	21627.76	0.0138	P	0.7
2	☐	500.000	501.981	94091.65	0.0584	P	0.5
3	☐	5000.000	5708.835	822007.03	0.5204	P	0.4
4	☐	12500.000	13324.463	1889967.26	1.1963	A	0.6
5	☐	25000.000	26572.284	3589710.47	2.3719	A	0.2
6	☐	50000.000	52130.876	6961897.05	4.6401	A	0.4
7	☐	100000.00	104867.82	13472064.10	9.3201	A	0.9
8	☐	500000.00	498707.03	64709667.37	44.2708	A	0.4

$$y = 8.8743\text{E-}005 * x + 0.0138$$

$$R = 0.9999$$

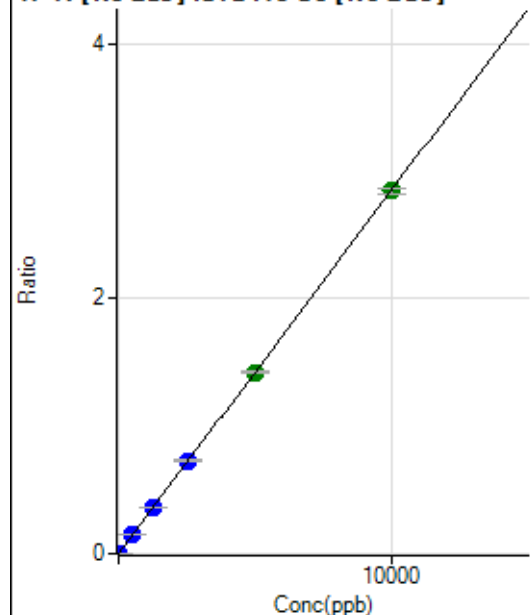
$$DL = 3.143$$

$$BEC = 155.5$$

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	136.67	0.0001	P	9.4
2	☐	5.000	4.187	2064.60	0.0013	P	6.1
3	☐	500.000	521.782	235019.27	0.1488	P	0.5
4	☐	1250.000	1281.464	576989.42	0.3653	P	1.7
5	☐	2500.000	2561.213	1104798.58	0.7300	P	0.6
6	☐	5000.000	4994.390	2135689.01	1.4235	A	0.8
7	☐	10000.000	9982.480	4112337.44	2.8451	A	1.3
8	☐			1331.18	0.0009	P	13.6

$$y = 2.8500E-004 * x + 8.7150E-005$$

$$R = 1.0000$$

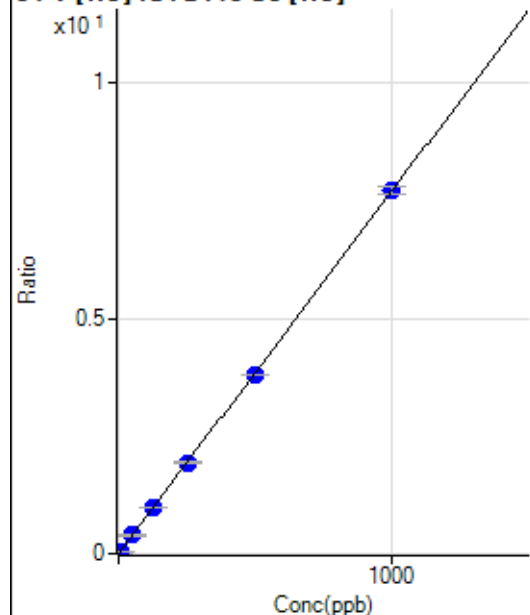
$$DL = 0.08582$$

$$BEC = 0.3058$$

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	20.00	0.0002	P	42.3
2	☐	5.000	4.698	4869.72	0.0363	P	1.1
3	☐	50.000	50.505	51425.00	0.3891	P	1.1
4	☐	125.000	125.978	123597.37	0.9702	P	0.6
5	☐	250.000	251.787	239568.74	1.9390	P	1.6
6	☐	500.000	495.386	459312.35	3.8147	P	0.2
7	☐	1000.000	1001.714	894754.74	7.7136	P	2.2
8	☐			326.68	0.0027	P	10.8

$$y = 0.0077 * x + 1.5275E-004$$

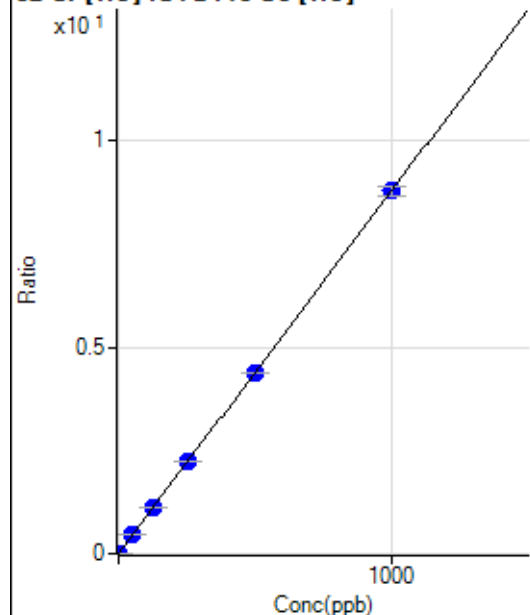
$$R = 1.0000$$

$$DL = 0.02515$$

$$BEC = 0.01984$$

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	254.45	0.0020	P	7.9
2	☐	2.000	1.912	2514.68	0.0188	P	5.6
3	☐	50.000	51.072	59594.88	0.4509	P	1.6
4	☐	125.000	126.712	142141.16	1.1158	P	0.2
5	☐	250.000	253.162	275199.47	2.2273	P	1.0
6	☐	500.000	497.711	527011.21	4.3768	P	0.3
7	☐	1000.000	1000.086	1019925.89	8.7927	P	2.3
8	☐			9834.39	0.0805	P	3.2

$$y = 0.0088 * x + 0.0020$$

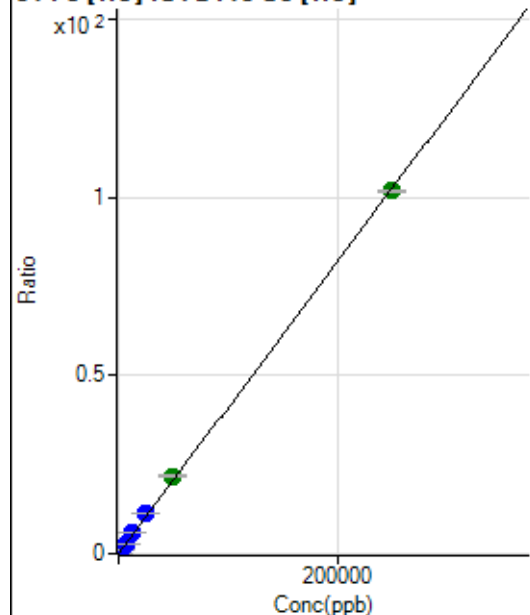
$$R = 1.0000$$

$$DL = 0.05272$$

$$BEC = 0.2221$$

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	1436.75	0.0110	P	2.7
2	☐	50.000	53.733	4428.46	0.0330	P	2.4
3	☐	2500.000	2903.474	158664.23	1.2004	P	0.7
4	☐	6250.000	7189.923	376610.93	2.9563	P	0.2
5	☐	12500.000	14268.242	723531.84	5.8558	P	1.2
6	☐	25000.000	28106.007	1387542.44	11.5242	P	0.6
7	☐	50000.000	53298.536	2533816.38	21.8439	A	2.4
8	☐	250000.00	248913.74	12463797.73	101.9747	A	0.2

$$y = 4.0963E-004 * x + 0.0110$$

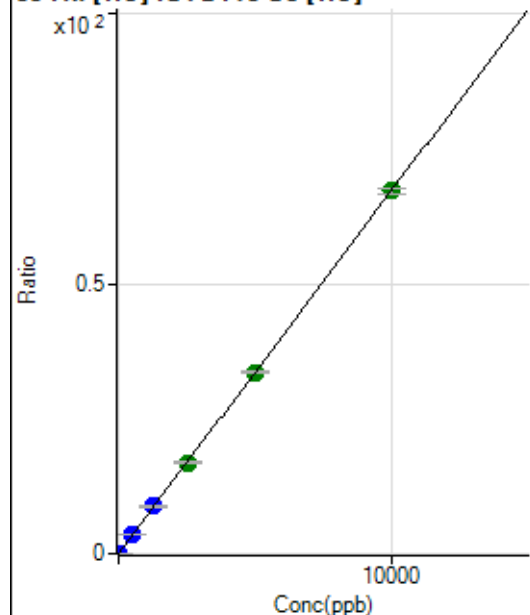
$$R = 0.9999$$

$$DL = 2.175$$

$$BEC = 26.9$$

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	407.79	0.0031	P	2.8
2	☐	1.000	1.093	1405.64	0.0105	P	2.4
3	☐	500.000	521.982	464659.42	3.5154	P	0.2
4	☐	1250.000	1297.712	1112777.45	8.7350	P	0.5
5	☐	2500.000	2512.292	2089044.13	16.9075	A	1.5
6	☐	5000.000	4992.851	4045316.29	33.5984	A	0.8
7	☐	10000.000	9993.438	7801021.83	67.2457	A	1.7
8	☐			4934.18	0.0404	P	1.5

$$y = 0.0067 * x + 0.0031$$

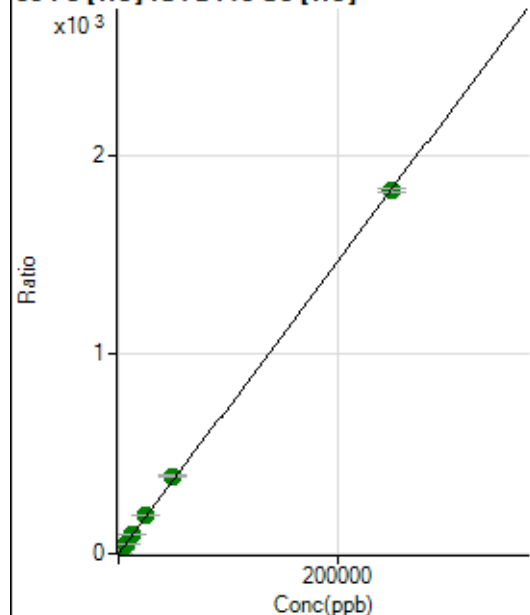
$$R = 1.0000$$

$$DL = 0.03847$$

$$BEC = 0.465$$

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	9148.40	0.0702	P	2.1
2	☐	50.000	53.396	61787.13	0.4609	P	1.0
3	☐	2500.000	2730.292	2649955.40	20.0482	A	0.3
4	☐	6250.000	6719.086	6272520.81	49.2350	A	1.1
5	☐	12500.000	13525.592	12236542.04	99.0395	A	1.7
6	☐	25000.000	26670.235	23505196.60	195.2213	A	0.5
7	☐	50000.000	53376.610	45316315.99	390.6370	A	1.8
8	☐	250000.00	249092.34	222780067.7	1,822.726	A	0.9

$$y = 0.0073 * x + 0.0702$$

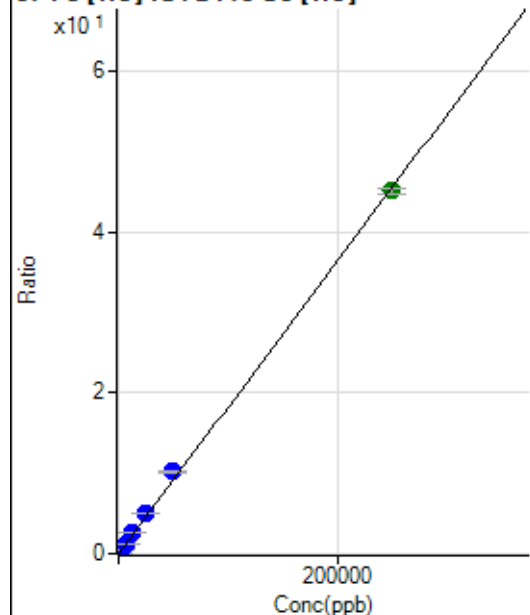
$$R = 0.9999$$

$$DL = 0.6157$$

$$BEC = 9.59$$

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	315.56	0.0024	P	22.7
2	☐	50.000	53.998	1641.22	0.0122	P	4.7
3	☐	2500.000	2885.920	69684.80	0.5272	P	0.7
4	☐	6250.000	7187.230	166802.65	1.3093	P	0.4
5	☐	12500.000	14161.131	318468.05	2.5775	P	1.2
6	☐	25000.000	28151.812	616652.69	5.1215	P	0.5
7	☐	50000.000	56139.319	1184457.09	10.2108	P	2.0
8	☐	250000.00	248346.60	5519912.83	45.1616	A	1.3

$$y = 1.8184\text{E-}004 * x + 0.0024$$

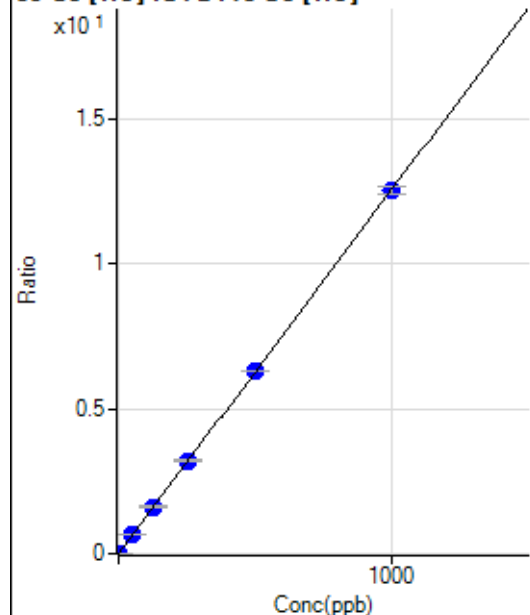
$$R = 0.9996$$

$$DL = 9.076$$

$$BEC = 13.35$$

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	87.78	0.0007	P	15.3
2	☐	1.000	1.047	1852.36	0.0138	P	7.5
3	☐	50.000	52.189	86739.70	0.6562	P	0.9
4	☐	125.000	129.228	206868.05	1.6239	P	0.9
5	☐	250.000	255.044	395913.42	3.2042	P	1.1
6	☐	500.000	501.362	758318.57	6.2982	P	0.6
7	☐	1000.000	997.420	1453385.93	12.5290	P	2.0
8	☐			4457.37	0.0365	P	4.0

$$y = 0.0126 * x + 6.7209\text{E-}004$$

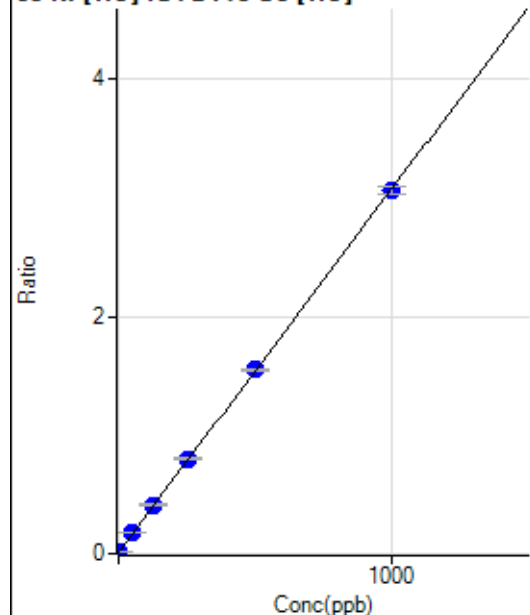
$$R = 1.0000$$

$$DL = 0.02452$$

$$BEC = 0.05351$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1372.30	0.0105	P	5.9
2	☐	1.000	0.813	1744.56	0.0130	P	4.6
3	☐	50.000	52.402	22583.73	0.1709	P	0.6
4	☐	125.000	131.409	52561.58	0.4126	P	0.7
5	☐	250.000	257.626	98688.46	0.7988	P	2.1
6	☐	500.000	503.284	186664.68	1.5504	P	1.2
7	☐	1000.000	995.530	354553.74	3.0565	P	2.1
8	☐			3746.05	0.0306	P	2.4

$$y = 0.0031 * x + 0.0105$$

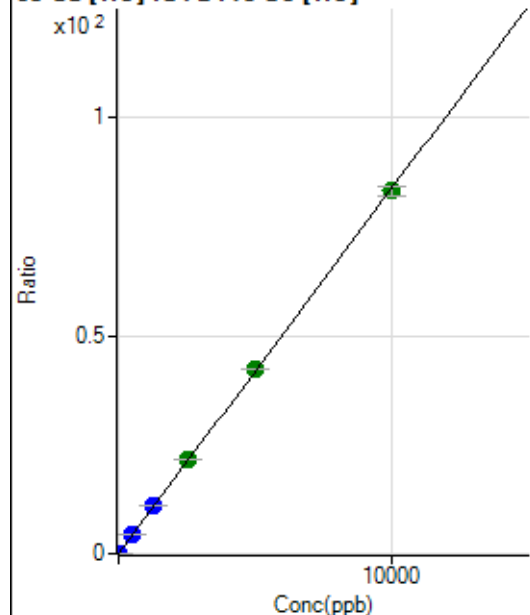
$$R = 0.9999$$

$$DL = 0.6129$$

$$BEC = 3.441$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	448.90	0.0034	P	5.0
2	☐	2.000	2.091	2809.18	0.0210	P	1.2
3	☐	500.000	533.419	590724.75	4.4692	P	0.7
4	☐	1250.000	1321.438	1409788.85	11.0664	P	0.5
5	☐	2500.000	2585.742	2675176.38	21.6510	A	1.1
6	☐	5000.000	5056.378	5097298.22	42.3349	A	0.3
7	☐	10000.000	9939.775	9652820.34	83.2182	A	2.5
8	☐			3690.48	0.0302	P	0.8

$$y = 0.0084 * x + 0.0034$$

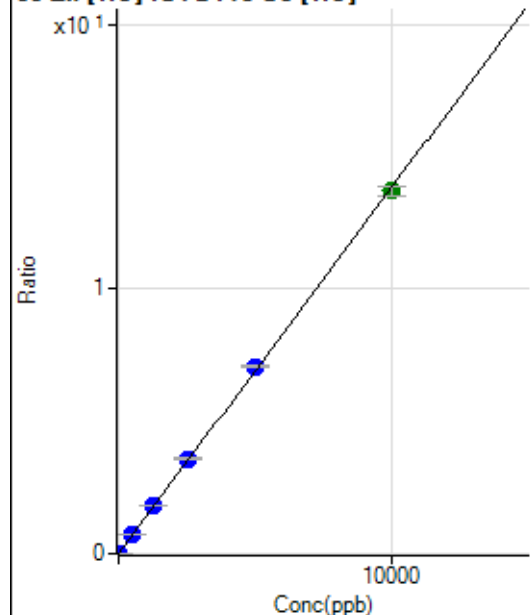
$$R = 0.9999$$

$$DL = 0.06181$$

$$BEC = 0.4115$$

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	162.22	0.0012	P	18.4
2	☐	5.000	6.019	1282.29	0.0096	P	7.9
3	☐	500.000	530.759	97093.86	0.7346	P	1.4
4	☐	1250.000	1316.045	231795.07	1.8195	P	0.8
5	☐	2500.000	2589.951	442303.11	3.5796	P	1.0
6	☐	5000.000	5107.144	849724.11	7.0575	P	0.8
7	☐	10000.000	9914.146	1589019.44	13.6991	A	2.5
8	☐			686.69	0.0056	P	5.5

$$y = 0.0014 * x + 0.0012$$

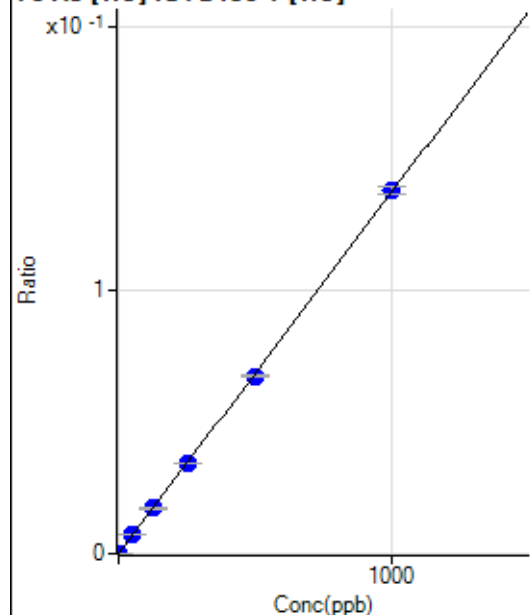
$$R = 0.9999$$

$$DL = 0.4976$$

$$BEC = 0.9011$$

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	3.33	0.0000	P	99.2
2	☐	1.000	1.115	144.45	0.0002	P	11.9
3	☐	50.000	51.352	6405.88	0.0071	P	0.2
4	☐	125.000	125.316	15219.04	0.0172	P	1.4
5	☐	250.000	249.868	29591.69	0.0343	P	0.4
6	☐	500.000	491.351	57041.27	0.0675	P	0.5
7	☐	1000.000	1004.250	111243.89	0.1380	P	2.2
8	☐			87.78	0.0001	P	12.8

$$y = 1.3737E-004 * x + 3.6759E-006$$

$$R = 0.9999$$

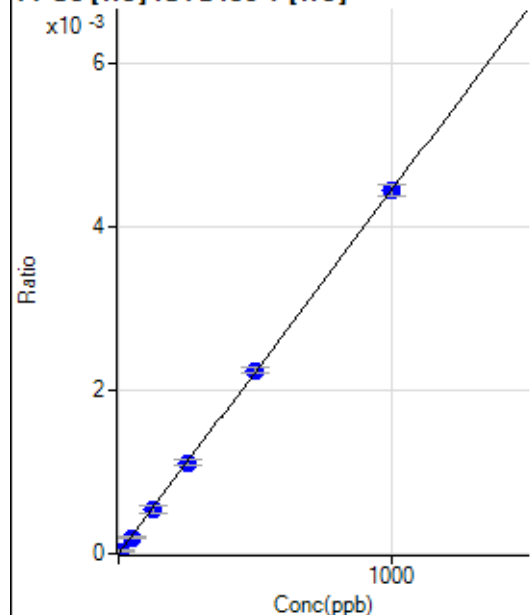
$$DL = 0.0796$$

$$BEC = 0.02676$$

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	7.031	28.89	0.0000	P	28.6
3	☐	50.000	44.833	181.11	0.0002	P	13.1
4	☐	125.000	121.306	477.79	0.0005	P	15.1
5	☐	250.000	249.290	956.71	0.0011	P	6.2
6	☐	500.000	505.174	1900.14	0.0022	P	3.1
7	☐	1000.000	998.300	3583.80	0.0044	P	3.4
8	☐			1.11	0.0000	P	173.

$$y = 4.4514\text{E-}006 * x + 0.0000\text{E+}000$$

$$R = 1.0000$$

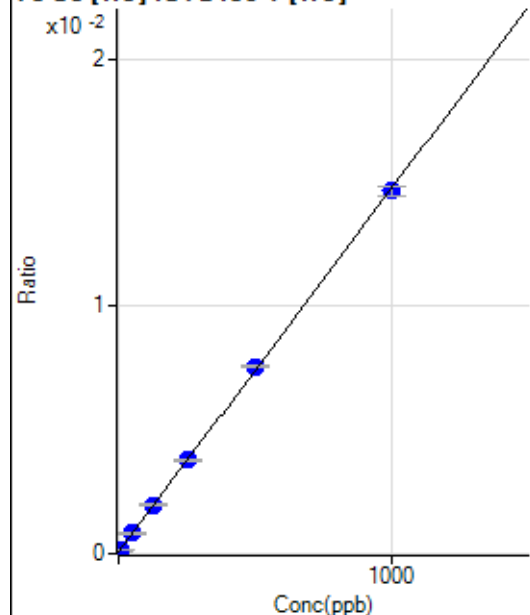
$$DL = 0$$

$$BEC = 0$$

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	63.33	0.0001	P	24.7
2	☐	5.000	6.012	146.67	0.0002	P	20.7
3	☐	50.000	52.014	757.80	0.0008	P	6.2
4	☐	125.000	129.480	1744.57	0.0020	P	4.1
5	☐	250.000	252.188	3257.05	0.0038	P	1.8
6	☐	500.000	510.442	6401.45	0.0076	P	0.4
7	☐	1000.000	993.566	11834.81	0.0147	P	2.9
8	☐			74.45	0.0001	P	44.6

$$y = 1.4702\text{E-}005 * x + 7.0467\text{E-}005$$

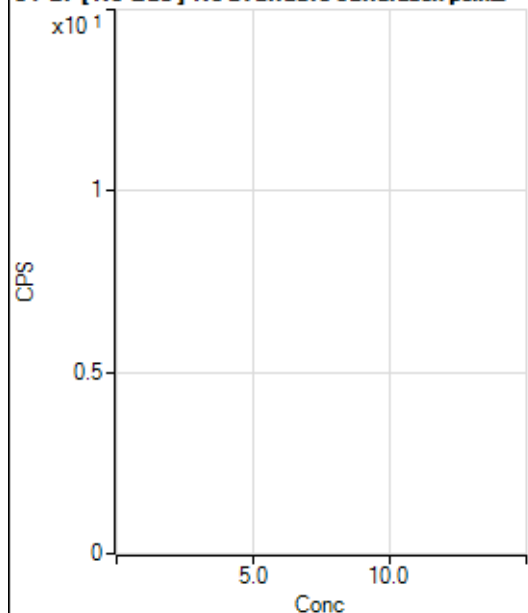
$$R = 0.9999$$

$$DL = 3.557$$

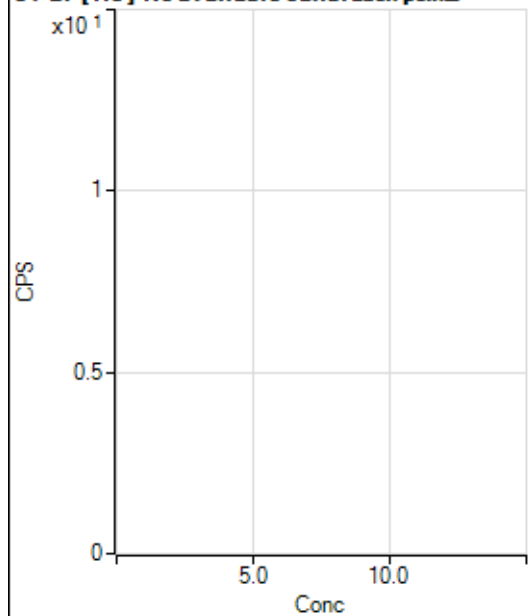
$$BEC = 4.793$$

Weight: <None>

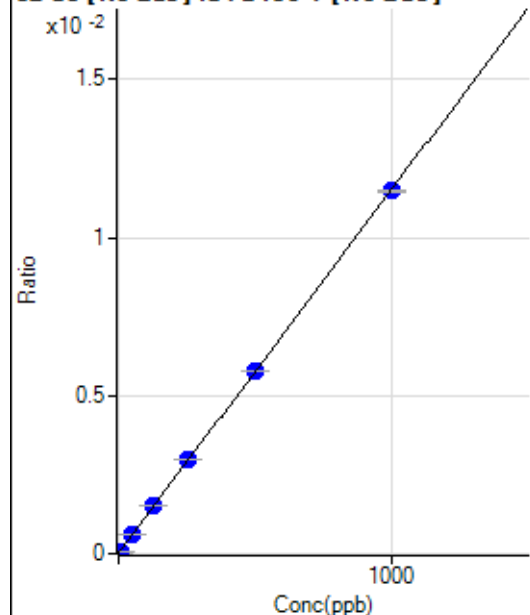
Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			15419.22		P	2.9
2	☐			15185.68		P	1.3
3	☐			15004.38		P	1.7
4	☐			14748.56		P	1.6
5	☐			13940.02		P	1.8
6	☐			14047.89		P	1.3
7	☐			13478.47		P	2.0
8	☐			14439.38		P	1.1

81 Br [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			28.89		P	17.6
2	☐			21.11		P	65.7
3	☐			26.67		P	69.6
4	☐			23.33		P	14.3
5	☐			20.00		P	33.4
6	☐			30.00		P	19.2
7	☐			21.11		P	9.1
8	☐			45.56		P	4.2

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	54.40	0.0000	P	19.1
2	☐	5.000	4.985	278.11	0.0001	P	7.7
3	☐	50.000	53.643	2380.87	0.0006	P	2.1
4	☐	125.000	129.766	5709.82	0.0015	P	2.1
5	☐	250.000	257.392	10984.48	0.0030	P	1.0
6	☐	500.000	501.760	20978.68	0.0058	P	0.8
7	☐	1000.000	996.494	40342.77	0.0115	P	0.7
8	☐			70.90	0.0000	P	6.7

$$y = 1.1500\text{E-}005 * x + 1.4782\text{E-}005$$

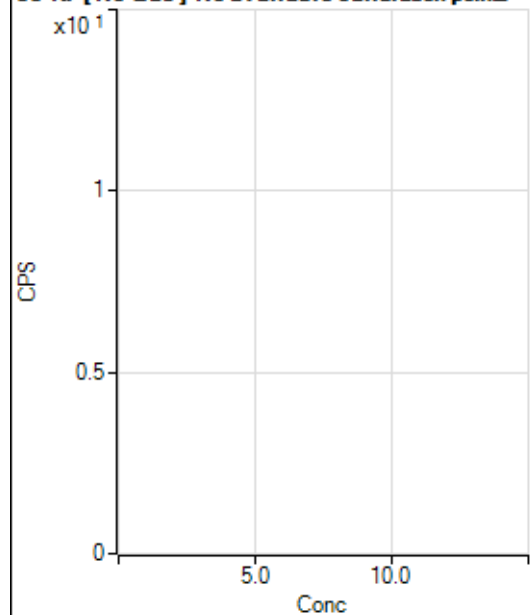
$$R = 1.0000$$

$$DL = 0.737$$

$$BEC = 1.285$$

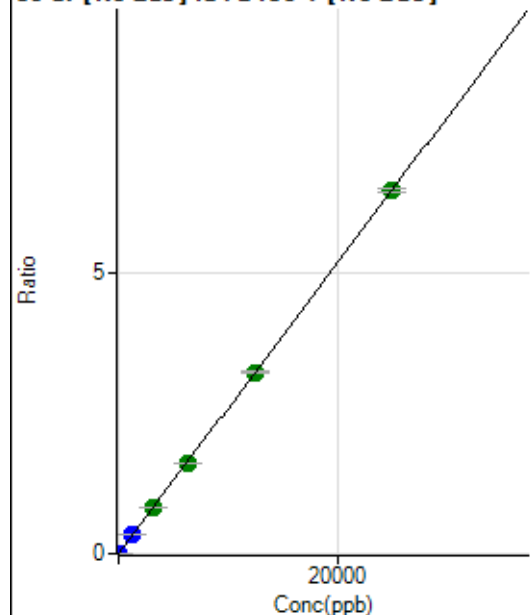
Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			48.89		P	25.8
2	☐			40.00		P	44.1
3	☐			44.44		P	38.5
4	☐			52.22		P	20.5
5	☐			45.56		P	16.9
6	☐			55.55		P	36.7
7	☐			65.56		P	15.5
8	☐			56.67		P	31.1

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	97.78	0.0000	P	9.8
2	☐	1.000	0.974	1072.28	0.0003	P	7.1
3	☐	1250.000	1276.795	1242938.46	0.3298	P	1.3
4	☐	3125.000	3186.134	3117577.77	0.8228	A	1.2
5	☐	6250.000	6263.970	5973532.55	1.6177	A	0.5
6	☐	12500.000	12477.557	11685163.02	3.2223	A	1.1
7	☐	25000.000	24998.748	22697525.49	6.4559	A	1.1
8	☐			4425.17	0.0013	P	12.4

$$y = 2.5825\text{E-}004 * x + 2.6540\text{E-}005$$

$$R = 1.0000$$

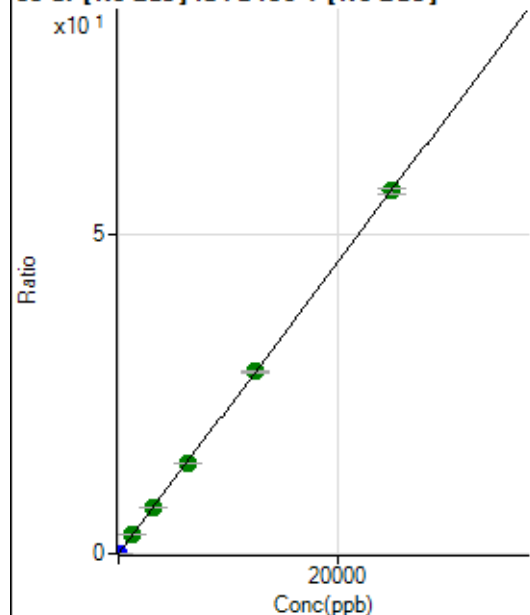
$$DL = 0.03036$$

$$BEC = 0.1028$$

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	448.90	0.0001	P	16.5
2	☐	1.000	0.951	8800.48	0.0023	P	3.3
3	☐	1250.000	1270.571	10878257.62	2.8860	A	1.3
4	☐	3125.000	3168.325	27266258.76	7.1964	A	0.3
5	☐	6250.000	6264.437	52542561.99	14.2286	A	0.6
6	☐	12500.000	12524.397	103163499.5	28.4469	A	0.3
7	☐	25000.000	24977.748	199459092.5	56.7323	A	1.3
8	☐			38753.63	0.0112	P	12.2

$$y = 0.0023 * x + 1.2164\text{E-}004$$

$$R = 1.0000$$

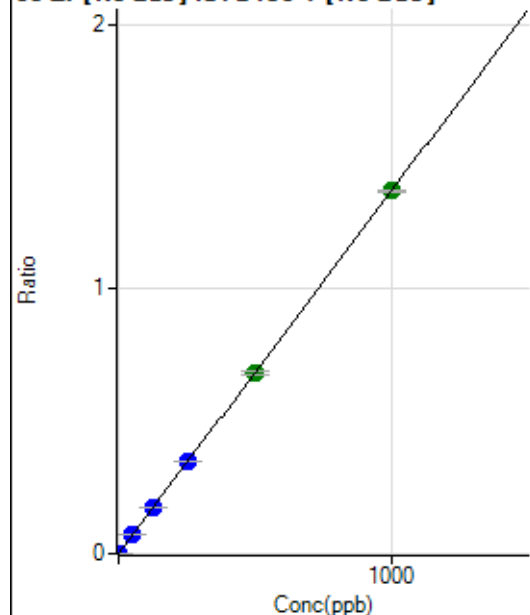
$$DL = 0.02651$$

$$BEC = 0.05356$$

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	166.67	0.0000	P	4.7
2	☐	1.000	0.899	4929.76	0.0013	P	1.9
3	☐	50.000	51.280	265134.72	0.0703	P	1.8
4	☐	125.000	127.667	663284.02	0.1751	P	0.5
5	☐	250.000	252.166	1276691.53	0.3457	P	0.2
6	☐	500.000	498.199	2476605.38	0.6830	A	2.5
7	☐	1000.000	999.962	4819826.73	1.3709	A	0.7
8	☐			2671.38	0.0008	P	6.1

$$y = 0.0014 * x + 4.5250E-005$$

$$R = 1.0000$$

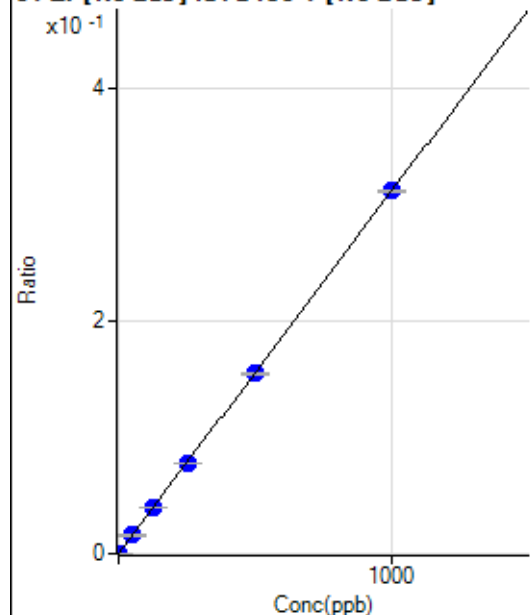
$$DL = 0.004647$$

$$BEC = 0.03301$$

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	31.11	0.0000	P	29.4
2	☐	1.000	0.903	1117.83	0.0003	P	2.5
3	☐	50.000	50.900	59812.22	0.0159	P	2.4
4	☐	125.000	126.341	149201.69	0.0394	P	0.3
5	☐	250.000	249.817	287486.60	0.0779	P	1.2
6	☐	500.000	497.998	562795.99	0.1552	P	0.9
7	☐	1000.000	1000.834	1096562.16	0.3119	P	0.7
8	☐			601.13	0.0002	P	11.9

$$y = 3.1162E-004 * x + 8.4165E-006$$

$$R = 1.0000$$

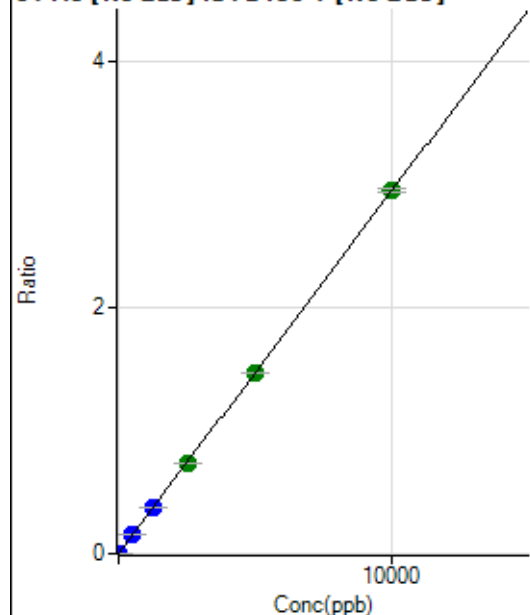
$$DL = 0.0238$$

$$BEC = 0.02701$$

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	103.33	0.0000	P	13.4
2	☐	5.000	5.001	5797.86	0.0015	P	3.2
3	☐	500.000	515.535	573366.72	0.1521	P	1.3
4	☐	1250.000	1275.532	1425808.48	0.3763	P	0.6
5	☐	2500.000	2481.801	2703700.51	0.7322	A	0.6
6	☐	5000.000	4986.435	5335004.19	1.4711	A	0.9
7	☐	10000.000	10007.364	10379664.22	2.9523	A	1.1
8	☐			5784.53	0.0017	P	8.1

$$y = 2.9501\text{E-}004 * x + 2.8111\text{E-}005$$

$$R = 1.0000$$

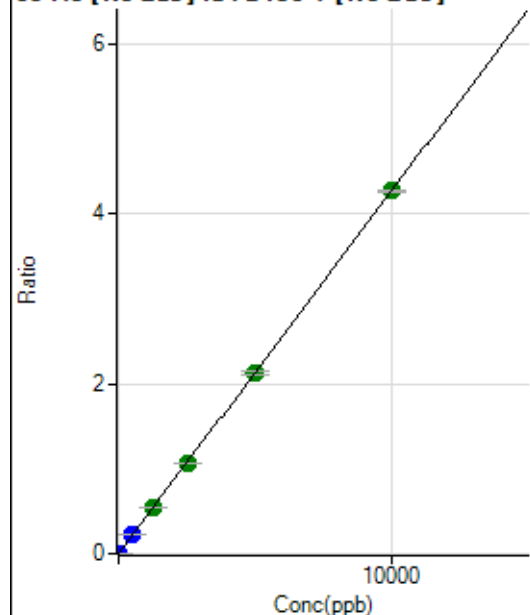
$$DL = 0.0384$$

$$BEC = 0.09529$$

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	153.34	0.0000	P	6.4
2	☐	5.000	4.325	7281.88	0.0019	P	2.5
3	☐	500.000	515.043	829016.31	0.2199	P	1.2
4	☐	1250.000	1256.639	2032946.36	0.5366	A	0.6
5	☐	2500.000	2497.955	3938489.63	1.0665	A	0.6
6	☐	5000.000	4993.831	7731430.58	2.1321	A	1.7
7	☐	10000.000	10002.014	15013611.30	4.2703	A	0.8
8	☐			8390.25	0.0024	P	4.9

$$y = 4.2694\text{E-}004 * x + 4.1680\text{E-}005$$

$$R = 1.0000$$

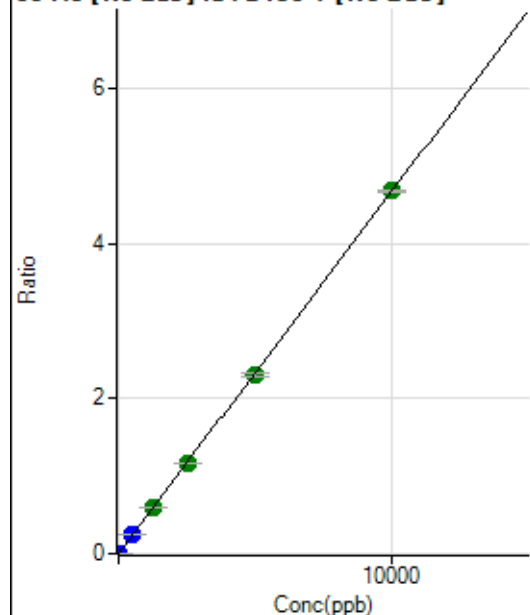
$$DL = 0.01874$$

$$BEC = 0.09762$$

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	67.78	0.0000	P	29.0
2	☐	5.000	4.273	7765.45	0.0020	P	2.6
3	☐	500.000	515.222	906824.74	0.2406	P	1.2
4	☐	1250.000	1272.865	2251835.78	0.5943	A	1.4
5	☐	2500.000	2490.691	4294686.67	1.1630	A	1.0
6	☐	5000.000	4951.193	8382921.20	2.3118	A	1.8
7	☐	10000.000	10023.112	16453822.95	4.6800	A	0.7
8	☐			9564.34	0.0028	P	7.1

$$y = 4.6691\text{E-}004 * x + 1.8366\text{E-}005$$

$$R = 1.0000$$

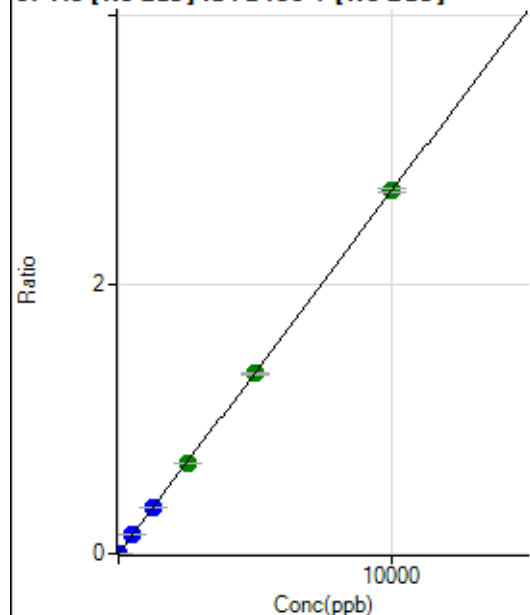
$$DL = 0.03424$$

$$BEC = 0.03933$$

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	55.55	0.0000	P	5.7
2	☐	5.000	4.235	4457.39	0.0012	P	5.2
3	☐	500.000	516.540	524618.24	0.1392	P	1.7
4	☐	1250.000	1269.063	1295545.90	0.3419	P	0.8
5	☐	2500.000	2501.729	2489038.43	0.6740	A	0.6
6	☐	5000.000	4976.401	4862011.18	1.3408	A	1.2
7	☐	10000.000	10008.158	9480205.69	2.6965	A	1.0
8	☐			5092.05	0.0015	P	6.1

$$y = 2.6942\text{E-}004 * x + 1.5082\text{E-}005$$

$$R = 1.0000$$

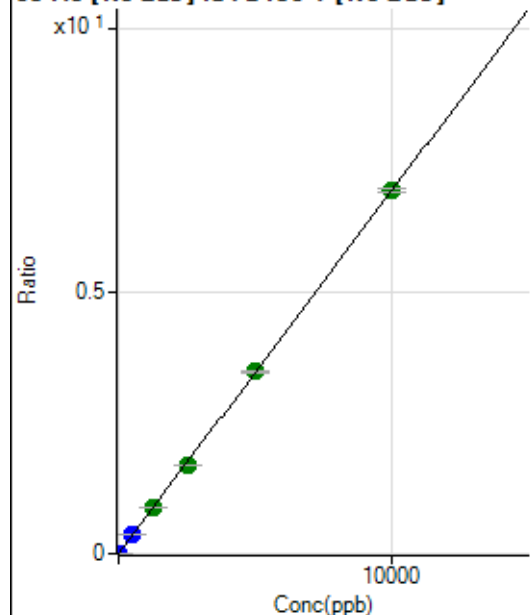
$$DL = 0.009519$$

$$BEC = 0.05598$$

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	86.66	0.0000	P	11.5
2	☐	5.000	4.329	11636.96	0.0030	P	1.7
3	☐	500.000	515.612	1344225.00	0.3566	P	0.9
4	☐	1250.000	1259.135	3299393.87	0.8708	A	0.4
5	☐	2500.000	2455.464	6270962.34	1.6982	A	0.2
6	☐	5000.000	5012.997	12572990.37	3.4669	A	0.6
7	☐	10000.000	10002.714	24322023.80	6.9177	A	1.0
8	☐			12952.55	0.0037	P	8.2

$$y = 6.9158\text{E-}004 * x + 2.3500\text{E-}005$$

$$R = 1.0000$$

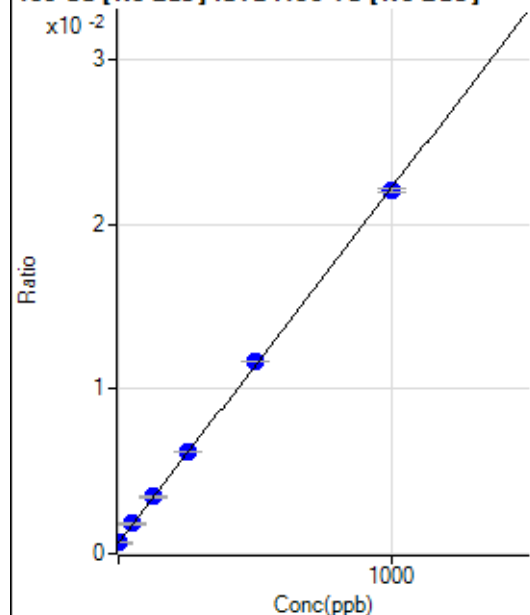
$$DL = 0.01168$$

$$BEC = 0.03398$$

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	2730.28	0.0007	P	3.8
2	☐	1.000	1.010	2911.43	0.0007	P	2.2
3	☐	50.000	54.130	7714.34	0.0018	P	1.9
4	☐	125.000	130.568	14796.54	0.0035	P	2.4
5	☐	250.000	257.074	25946.60	0.0062	P	1.2
6	☐	500.000	511.004	48598.82	0.0117	P	0.4
7	☐	1000.000	991.827	90789.03	0.0220	P	1.2
8	☐			2599.14	0.0007	P	2.7

$$y = 2.1556\text{E-}005 * x + 6.5300\text{E-}004$$

$$R = 0.9999$$

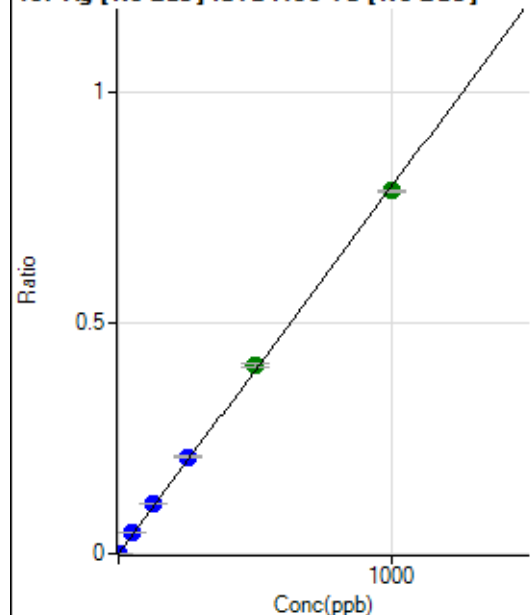
$$DL = 3.49$$

$$BEC = 30.29$$

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	27.7
2	☐	1.000	1.003	3472.67	0.0008	P	4.3
3	☐	50.000	55.388	187074.19	0.0441	P	0.6
4	☐	125.000	136.104	462801.69	0.1085	P	0.5
5	☐	250.000	264.352	882317.91	0.2106	P	1.1
6	☐	500.000	512.246	1699758.36	0.4082	A	2.2
7	☐	1000.000	988.632	3246184.08	0.7877	A	0.3
8	☐			608.91	0.0002	P	8.8

$$y = 7.9678\text{E-}004 * x + 6.1154\text{E-}006$$

$$R = 0.9997$$

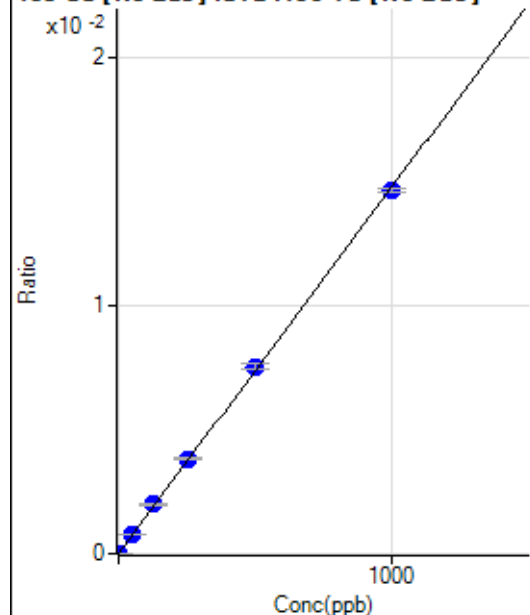
$$DL = 0.006389$$

$$BEC = 0.007675$$

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	4.44	0.0000	P	173.
2	☐	1.000	1.133	76.67	0.0000	P	18.3
3	☐	50.000	54.184	3389.31	0.0008	P	2.4
4	☐	125.000	134.052	8434.76	0.0020	P	3.7
5	☐	250.000	259.221	16010.04	0.0038	P	0.6
6	☐	500.000	511.272	31385.04	0.0075	P	3.8
7	☐	1000.000	990.718	60179.72	0.0146	P	1.1
8	☐			145.56	0.0000	P	19.6

$$y = 1.4740\text{E-}005 * x + 1.0472\text{E-}006$$

$$R = 0.9998$$

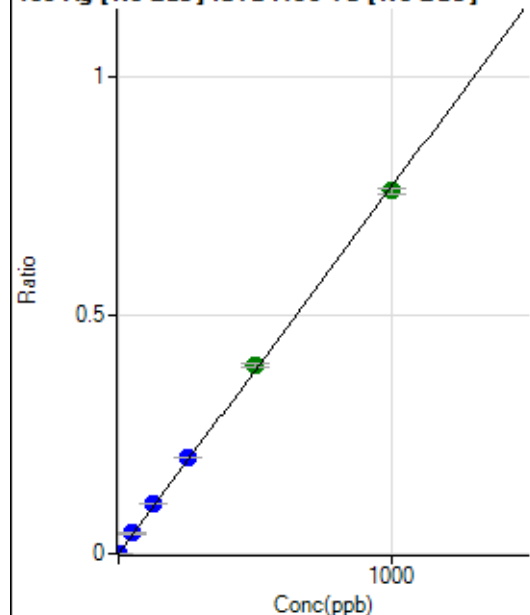
$$DL = 0.3692$$

$$BEC = 0.07105$$

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	5.56	0.0000	P	91.6
2	☐	1.000	0.961	3201.49	0.0007	P	2.6
3	☐	50.000	55.314	180573.62	0.0426	P	1.7
4	☐	125.000	135.965	446913.45	0.1047	P	1.0
5	☐	250.000	262.732	847699.23	0.2024	P	1.1
6	☐	500.000	513.112	1646078.72	0.3952	A	1.3
7	☐	1000.000	988.625	3137848.57	0.7615	A	1.6
8	☐			532.24	0.0001	P	14.0

$$y = 7.7026\text{E-}004 * x + 1.3382\text{E-}006$$

$$R = 0.9998$$

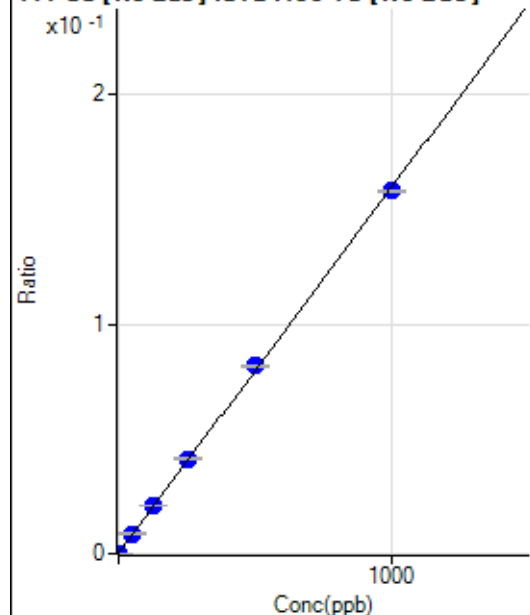
$$DL = 0.004774$$

$$BEC = 0.001737$$

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	548.50	0.0001	P	5.2
2	☐	1.000	1.004	1256.42	0.0003	P	3.5
3	☐	50.000	53.979	36991.81	0.0087	P	1.4
4	☐	125.000	132.786	90810.27	0.0213	P	0.4
5	☐	250.000	259.229	173489.05	0.0414	P	1.0
6	☐	500.000	511.782	340024.55	0.0816	P	1.0
7	☐	1000.000	990.629	650695.58	0.1579	P	0.7
8	☐			681.27	0.0002	P	5.5

$$y = 1.5927\text{E-}004 * x + 1.3120\text{E-}004$$

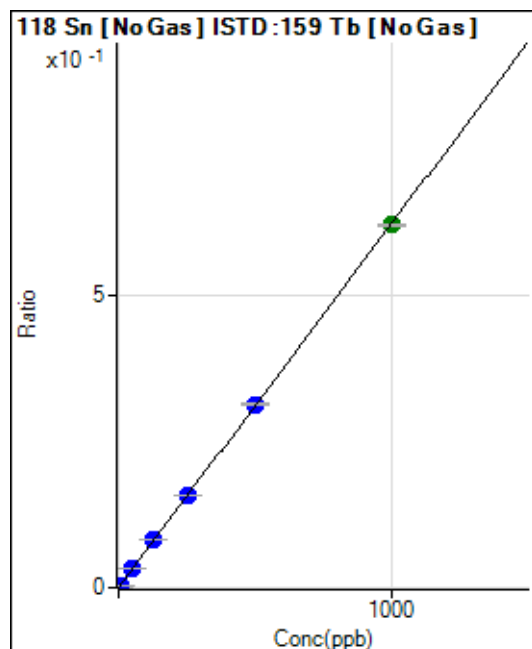
$$R = 0.9998$$

$$DL = 0.1294$$

$$BEC = 0.8238$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	703.36	0.0002	P	12.1
2	☐	5.000	5.017	14179.33	0.0033	P	1.3
3	☐	50.000	52.895	140025.84	0.0330	P	1.2
4	☐	125.000	130.373	346450.25	0.0812	P	0.8
5	☐	250.000	253.919	661685.01	0.1580	P	0.5
6	☐	500.000	503.166	1302957.55	0.3129	P	1.5
7	☐	1000.000	996.621	2552903.24	0.6195	A	0.8
8	☐			2084.62	0.0005	P	1.7

$$y = 6.2144\text{E-}004 * x + 1.6816\text{E-}004$$

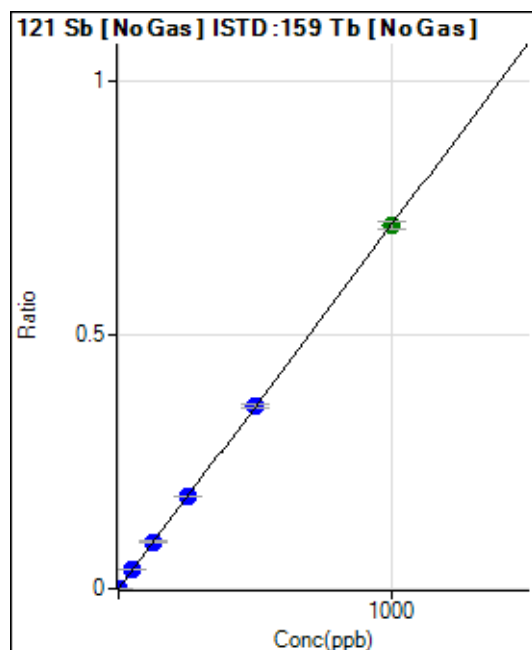
$$R = 1.0000$$

$$DL = 0.0984$$

$$BEC = 0.2706$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	14.44	0.0000	P	103.
2	☐	2.000	1.907	5911.28	0.0014	P	3.7
3	☐	50.000	51.776	157290.49	0.0371	P	1.3
4	☐	125.000	129.315	395527.40	0.0927	P	1.1
5	☐	250.000	253.227	760275.44	0.1815	P	0.3
6	☐	500.000	502.253	1499222.58	0.3600	P	1.5
7	☐	1000.000	997.439	2945757.91	0.7149	A	2.0
8	☐			2322.43	0.0006	P	2.7

$$y = 7.1673\text{E-}004 * x + 3.4262\text{E-}006$$

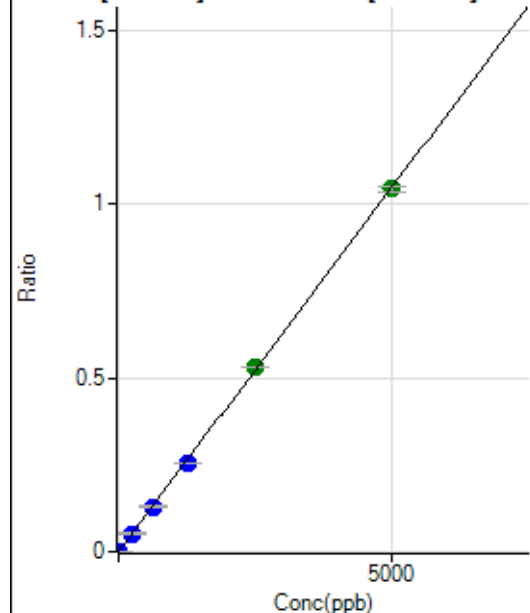
$$R = 1.0000$$

$$DL = 0.01482$$

$$BEC = 0.00478$$

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	7.78	0.0000	P	25.5
2	☐	10.000	9.172	8299.15	0.0019	P	1.6
3	☐	250.000	250.882	222792.51	0.0526	P	0.5
4	☐	625.000	620.742	554996.89	0.1301	P	0.5
5	☐	1250.000	1223.617	1073875.33	0.2564	P	0.1
6	☐	2500.000	2540.025	2216558.92	0.5322	A	0.4
7	☐	5000.000	4987.073	4305461.81	1.0449	A	1.3
8	☐			1587.88	0.0004	P	5.2

$$y = 2.0951\text{E-}004 * x + 1.8626\text{E-}006$$

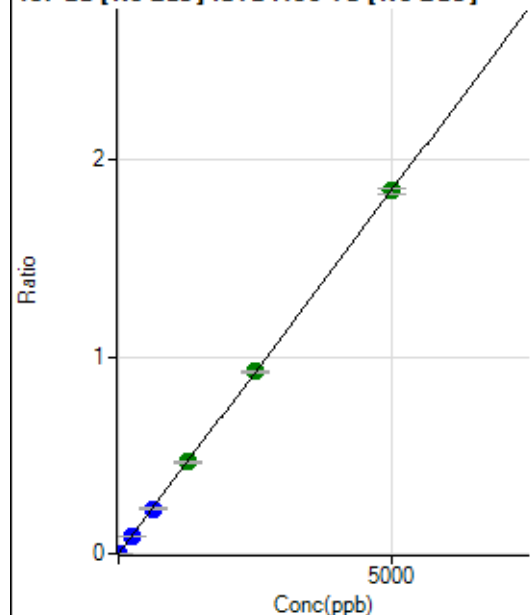
$$R = 0.9999$$

$$DL = 0.006799$$

$$BEC = 0.00889$$

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	30.00	0.0000	P	11.2
2	☐	10.000	9.200	14686.55	0.0034	P	0.9
3	☐	250.000	249.619	390609.56	0.0922	P	1.1
4	☐	625.000	619.305	975686.86	0.2286	P	1.0
5	☐	1250.000	1264.041	1954824.50	0.4667	A	1.2
6	☐	2500.000	2504.546	3851033.73	0.9246	A	1.0
7	☐	5000.000	4994.949	7598568.15	1.8441	A	1.7
8	☐			2596.93	0.0007	P	6.6

$$y = 3.6918\text{E-}004 * x + 7.1736\text{E-}006$$

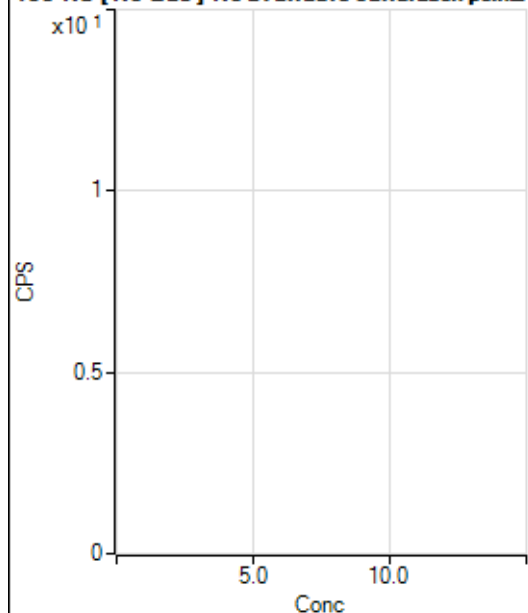
$$R = 1.0000$$

$$DL = 0.006511$$

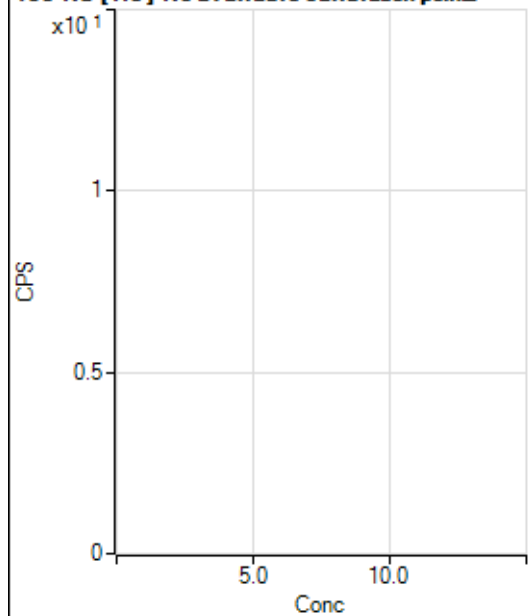
$$BEC = 0.01943$$

Weight: <None>

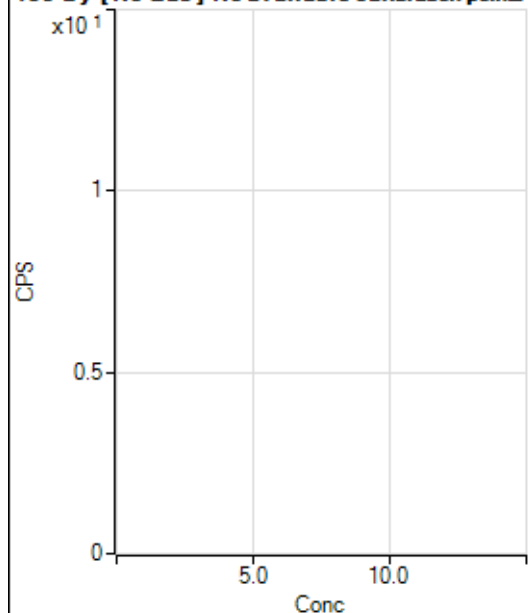
Min Conc: 0

150 Nd [No Gas] No available calibration points

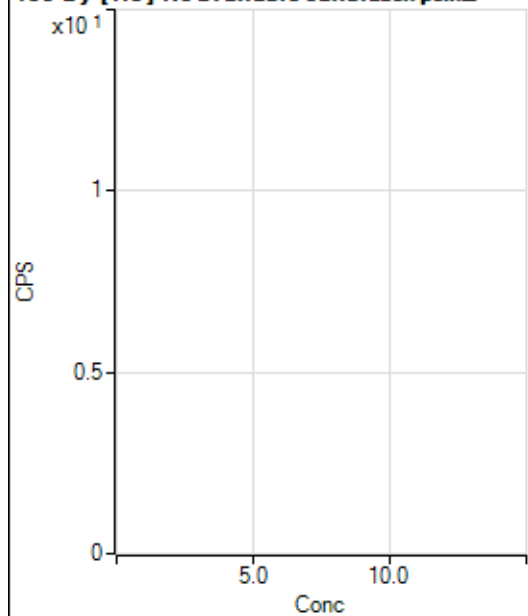
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1.11		P	173.
2	☐			4.44		P	114.
3	☐			87.78		P	5.8
4	☐			177.78		P	11.0
5	☐			334.45		P	4.0
6	☐			694.47		P	5.0
7	☐			1264.51		P	4.2
8	☐			63.33		P	13.9

150 Nd [He] No available calibration points

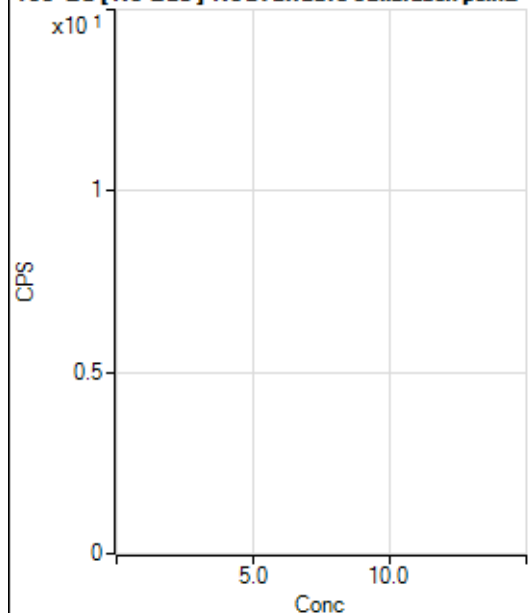
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			5.55		P	124.
2	☐			2.22		P	173.
3	☐			14.44		P	35.3
4	☐			33.33		P	10.0
5	☐			37.78		P	82.0
6	☐			113.34		P	10.6
7	☐			212.23		P	18.4
8	☐			46.67		P	24.7

156 Dy [No Gas] No available calibration points

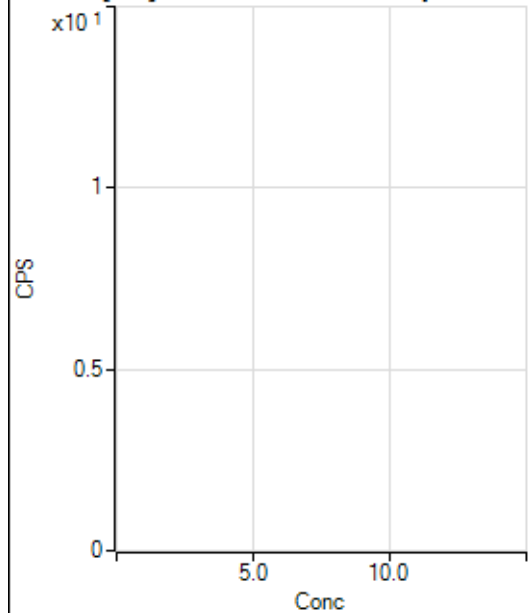
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			4.45		P	86.6
2	☐			4.44		P	43.4
3	☐			16.67		P	34.6
4	☐			30.00		P	38.5
5	☐			60.00		P	9.6
6	☐			117.78		P	10.7
7	☐			216.67		P	18.7
8	☐			173.34		P	10.7

156 Dy [He] No available calibration points

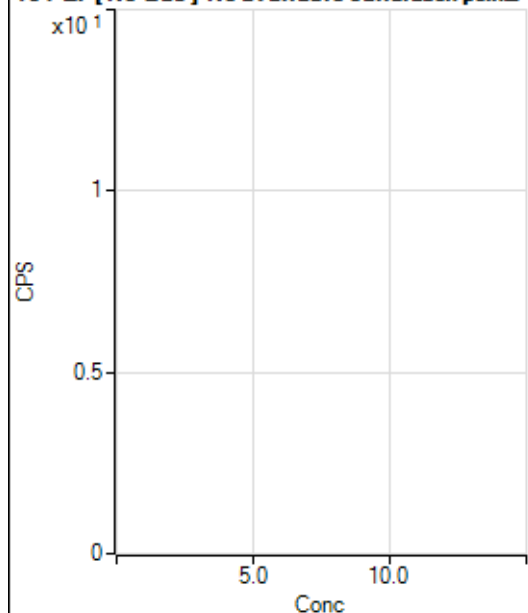
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			3.33		P	173.
2	☐			3.33		P	100.
3	☐			14.44		P	35.3
4	☐			27.78		P	45.4
5	☐			52.22		P	51.6
6	☐			104.45		P	3.7
7	☐			192.23		P	9.9
8	☐			82.22		P	32.8

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

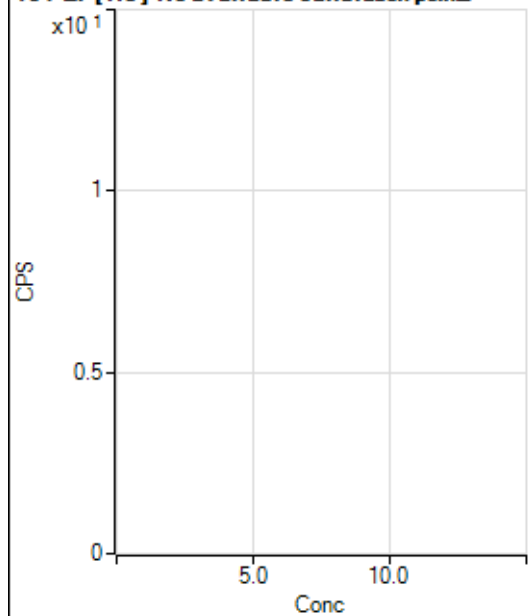
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			25.56		P	19.9
2	☐			12.22		P	68.7
3	☐			17.78		P	60.3
4	☐			18.89		P	20.4
5	☐			37.78		P	28.4
6	☐			33.33		P	20.0
7	☐			53.33		P	56.3
8	☐			126.67		P	9.5

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			105.56		P	22.4
2	☐			140.00		P	29.3
3	☐			140.00		P	10.4
4	☐			143.34		P	16.8
5	☐			130.01		P	8.9
6	☐			157.78		P	12.2
7	☐			148.89		P	22.4
8	☐			205.56		P	13.6

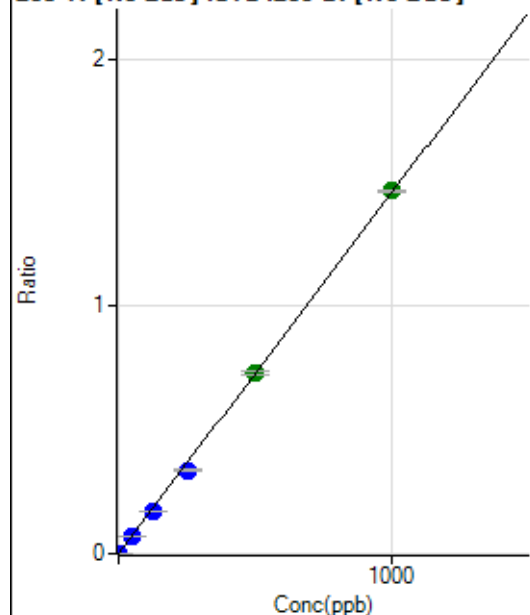
164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			32.22		P	26.0
2	☐			30.00		P	11.1
3	☐			42.22		P	19.9
4	☐			46.67		P	43.5
5	☐			30.00		P	19.2
6	☐			43.33		P	50.4
7	☐			73.33		P	7.9
8	☐			144.45		P	17.9

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			23.33		P	14.3
2	☐			16.67		P	20.0
3	☐			22.22		P	31.2
4	☐			21.11		P	50.8
5	☐			25.56		P	7.5
6	☐			24.45		P	15.8
7	☐			37.78		P	13.5
8	☐			96.67		P	12.4

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	64.44	0.0000	P	21.6
2	☐	1.000	0.844	3699.43	0.0013	P	1.5
3	☐	50.000	45.908	196745.30	0.0670	P	0.9
4	☐	125.000	115.282	494003.91	0.1683	P	0.6
5	☐	250.000	231.002	964475.69	0.3372	P	0.8
6	☐	500.000	500.695	2069345.77	0.7307	A	1.4
7	☐	1000.000	1005.822	4040952.92	1.4679	A	0.4
8	☐			548.91	0.0002	P	21.3

$$y = 0.0015 * x + 2.1897E-005$$

$$R = 0.9998$$

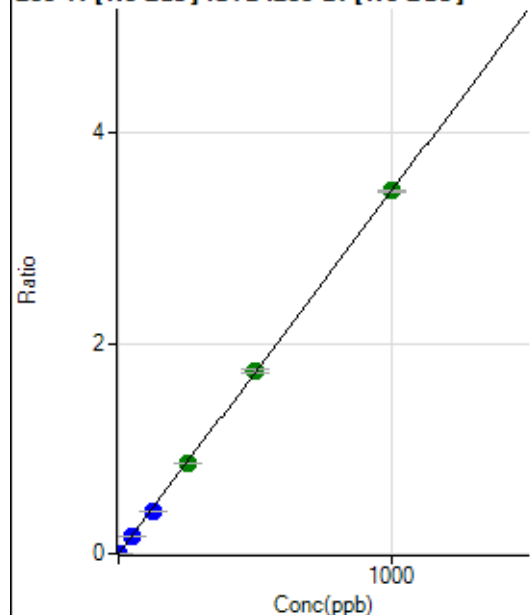
$$DL = 0.009744$$

$$BEC = 0.015$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	116.67	0.0000	P	12.3
2	☐	1.000	0.846	8729.55	0.0030	P	2.7
3	☐	50.000	46.470	470813.78	0.1604	P	0.7
4	☐	125.000	116.678	1182064.90	0.4026	P	0.2
5	☐	250.000	249.828	2466100.99	0.8621	A	0.7
6	☐	500.000	502.224	4907151.04	1.7330	A	2.1
7	☐	1000.000	1000.148	9499858.26	3.4510	A	0.8
8	☐			1315.64	0.0005	P	22.0

$$y = 0.0035 * x + 3.9632E-005$$

$$R = 1.0000$$

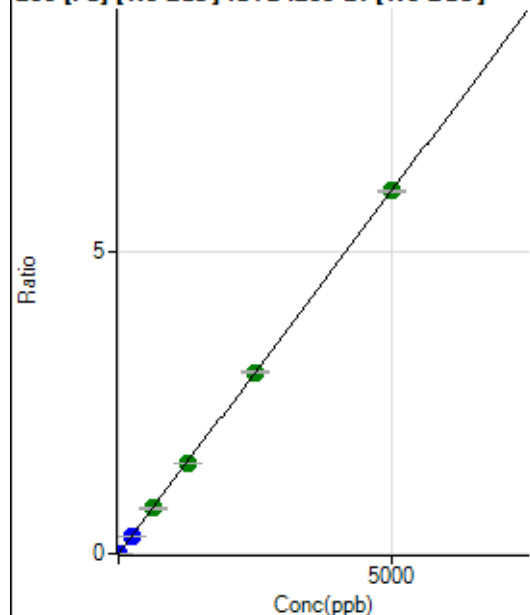
$$DL = 0.004252$$

$$BEC = 0.01149$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	113.34	0.0000	P	10.3
2	☐	1.000	0.869	3192.62	0.0011	P	2.7
3	☐	250.000	230.923	814251.96	0.2774	P	0.6
4	☐	625.000	624.028	2200375.09	0.7495	A	0.9
5	☐	1250.000	1251.424	4299610.67	1.5030	A	0.7
6	☐	2500.000	2499.055	8499323.14	3.0014	A	1.4
7	☐	5000.000	5001.192	16534151.70	6.0064	A	0.6
8	☐			6557.20	0.0027	P	6.0

$$y = 0.0012 * x + 3.8505E-005$$

$$R = 1.0000$$

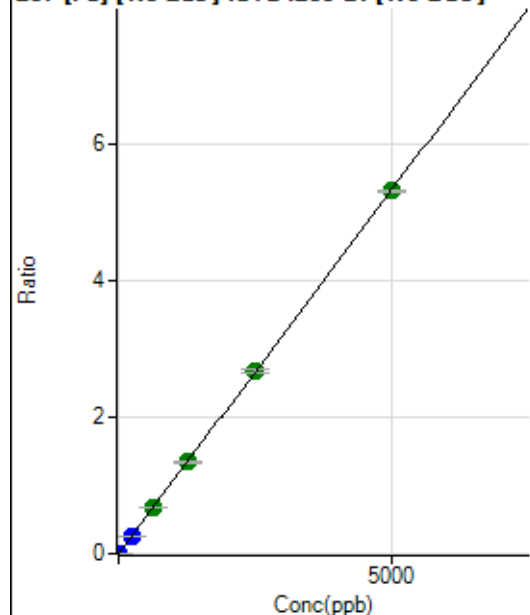
$$DL = 0.00988$$

$$BEC = 0.03206$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	113.33	0.0000	P	19.4
2	☐	1.000	0.841	2750.31	0.0009	P	5.0
3	☐	250.000	230.413	719048.59	0.2449	P	0.3
4	☐	625.000	634.205	1979086.54	0.6741	A	1.7
5	☐	1250.000	1262.249	3838194.42	1.3417	A	1.1
6	☐	2500.000	2514.906	7569909.75	2.6731	A	1.7
7	☐	5000.000	4989.313	14598350.06	5.3031	A	0.5
8	☐			5886.89	0.0024	P	3.6

$$y = 0.0011 * x + 3.8510E-005$$

$$R = 1.0000$$

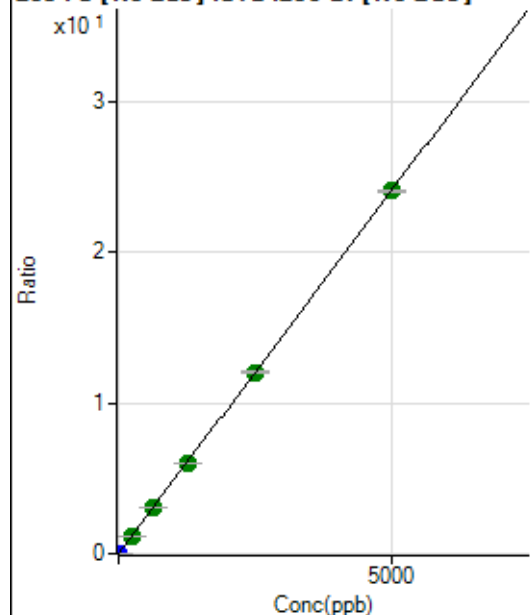
$$DL = 0.02113$$

$$BEC = 0.03623$$

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	505.57	0.0002	P	6.2
2	☐	1.000	0.845	12503.46	0.0042	P	1.1
3	☐	250.000	239.932	3389653.20	1.1547	A	1.1
4	☐	625.000	631.295	8918611.63	3.0379	A	0.8
5	☐	1250.000	1253.009	17248688.57	6.0295	A	0.5
6	☐	2500.000	2502.335	34098215.12	12.0411	A	1.5
7	☐	5000.000	4997.797	66201609.01	24.0490	A	0.4
8	☐			26311.31	0.0109	P	7.1

$$y = 0.0048 * x + 1.7177E-004$$

$$R = 1.0000$$

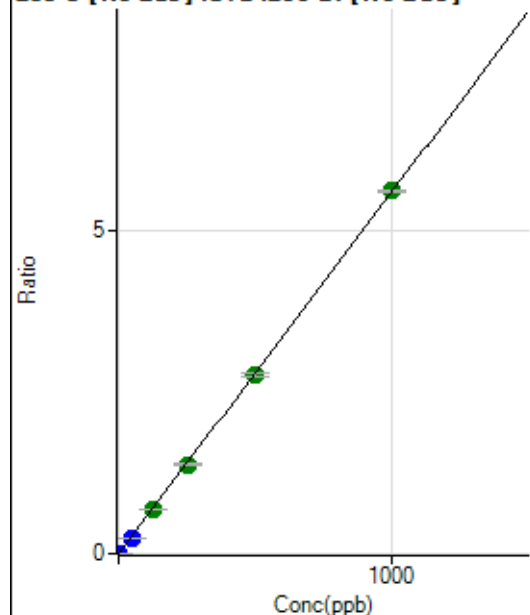
$$DL = 0.006594$$

$$BEC = 0.0357$$

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	15.55	0.0000	P	44.7
2	☐	1.000	0.801	13191.04	0.0045	P	0.9
3	☐	50.000	43.713	715724.14	0.2438	P	1.1
4	☐	125.000	121.367	1987351.31	0.6769	A	0.9
5	☐	250.000	246.734	3936938.76	1.3762	A	0.9
6	☐	500.000	495.381	7824289.26	2.7630	A	1.5
7	☐	1000.000	1003.895	15413445.33	5.5992	A	0.4
8	☐			1201.18	0.0005	P	29.6

$$y = 0.0056 * x + 5.2844E-006$$

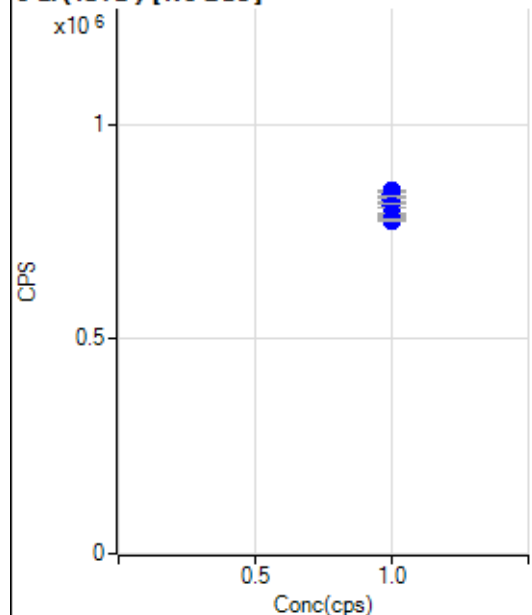
$$R = 1.0000$$

$$DL = 0.00127$$

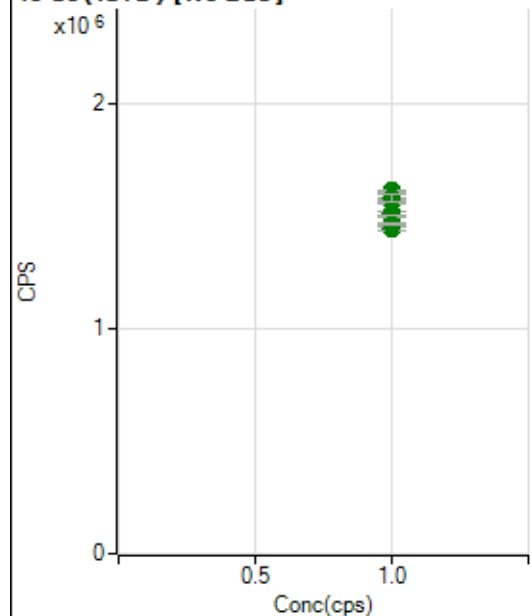
$$BEC = 0.0009475$$

Weight: <None>

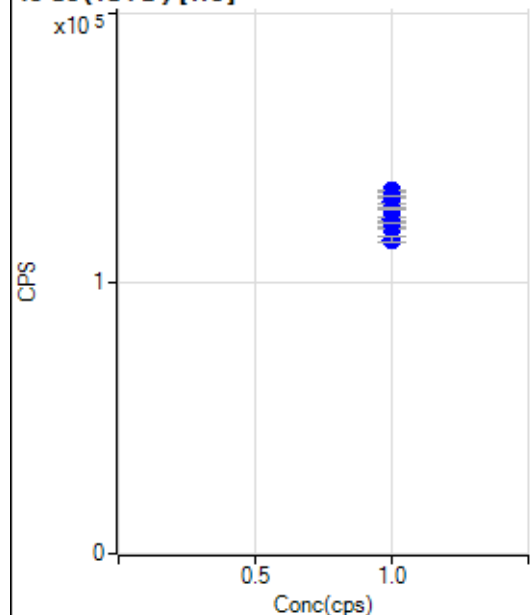
Min Conc: 0

6 Li (ISTD) [No Gas]

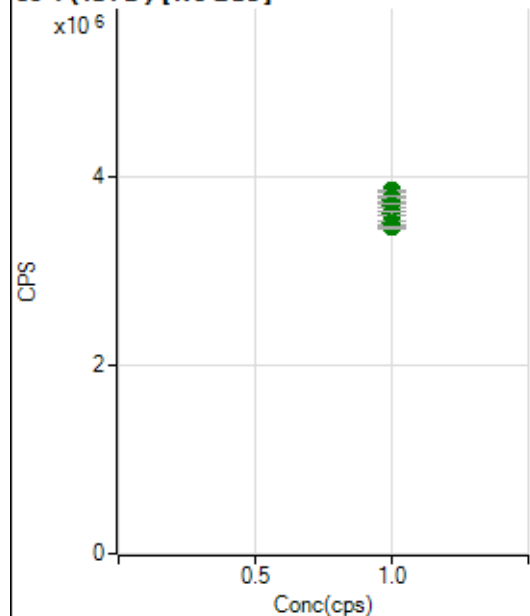
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		825670.58		P	1.5
2	☐	1.000		844811.14		P	0.3
3	☐	1.000		837636.80		P	0.8
4	☐	1.000		830826.25		P	0.7
5	☐	1.000		811005.81		P	1.0
6	☐	1.000		791842.89		P	0.6
7	☐	1.000		778425.88		P	1.0
8	☐	1.000		776704.99		P	0.7

45 Sc (ISTD) [No Gas]

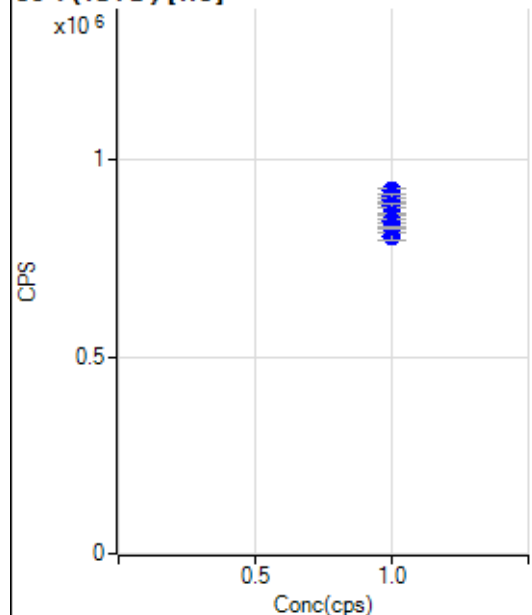
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1566896.54		A	1.4
2	☐	1.000		1612520.32		A	0.6
3	☐	1.000		1579492.58		A	0.5
4	☐	1.000		1579834.44		A	2.0
5	☐	1.000		1513448.71		A	1.3
6	☐	1.000		1500387.93		A	0.7
7	☐	1.000		1445569.86		A	1.1
8	☐	1.000		1461697.13		A	0.6

45 Sc (ISTD) [He]

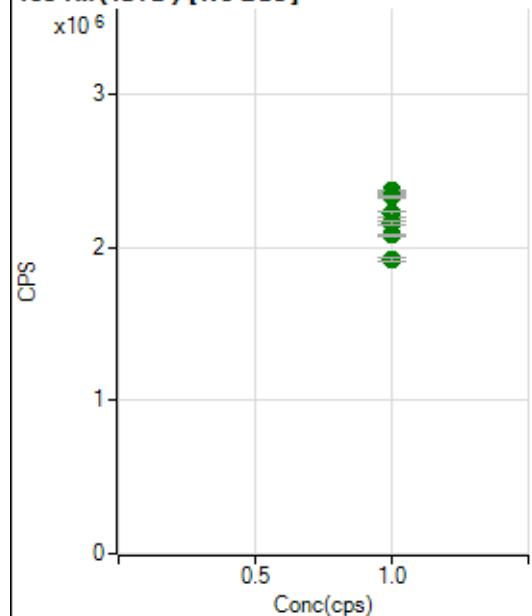
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		130360.26		P	1.8
2	☐	1.000		134056.17		P	0.9
3	☐	1.000		132179.88		P	0.5
4	☐	1.000		127395.19		P	0.7
5	☐	1.000		123571.59		P	1.4
6	☐	1.000		120406.68		P	1.0
7	☐	1.000		116033.11		P	2.0
8	☐	1.000		122224.14		P	0.2

89 Y (ISTD) [No Gas]

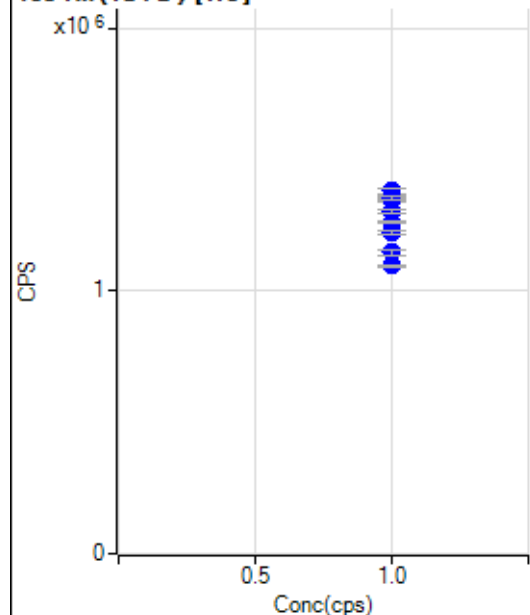
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3682078.42		A	2.1
2	☐	1.000		3856471.68		A	0.4
3	☐	1.000		3769717.90		A	1.4
4	☐	1.000		3788856.50		A	0.5
5	☐	1.000		3692707.23		A	1.1
6	☐	1.000		3626580.92		A	1.1
7	☐	1.000		3515950.08		A	0.9
8	☐	1.000		3472521.58		A	0.5

89 Y(ISTD) [He]

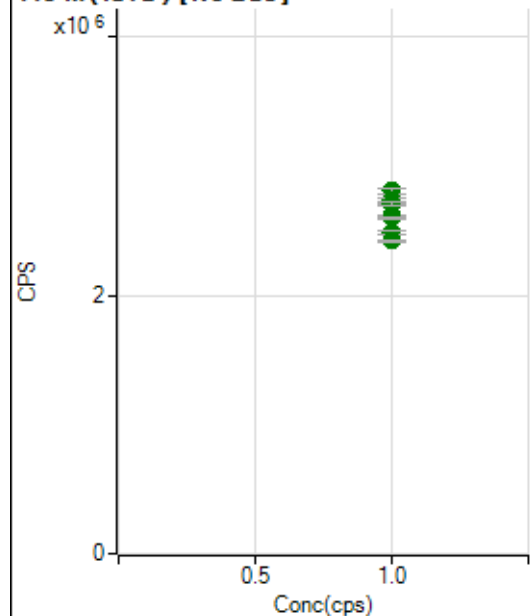
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		899478.05		P	1.5
2	☐	1.000		921836.78		P	1.4
3	☐	1.000		907609.72		P	0.8
4	☐	1.000		883913.57		P	1.0
5	☐	1.000		862023.95		P	0.5
6	☐	1.000		845051.63		P	0.7
7	☐	1.000		806595.19		P	2.1
8	☐	1.000		830235.17		P	0.6

103 Rh(ISTD) [No Gas]

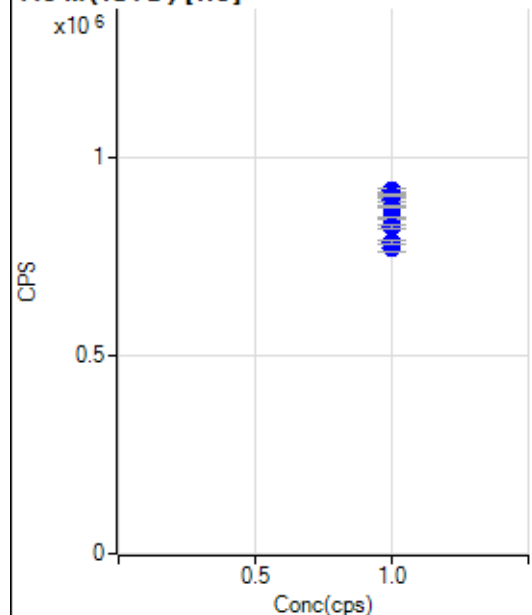
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2352421.86		A	1.4
2	☐	1.000		2370113.05		A	0.4
3	☐	1.000		2334147.43		A	1.3
4	☐	1.000		2334595.45		A	0.6
5	☐	1.000		2218916.65		A	1.3
6	☐	1.000		2163420.58		A	1.3
7	☐	1.000		2079624.59		A	0.8
8	☐	1.000		1922047.99		A	1.5

103 Rh (ISTD) [He]

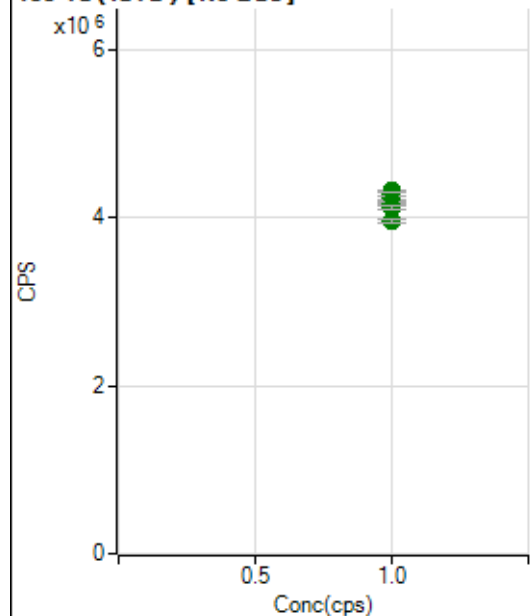
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1346958.61		P	1.4
2	☐	1.000		1381581.56		P	1.4
3	☐	1.000		1355806.68		P	1.0
4	☐	1.000		1303854.35		P	0.9
5	☐	1.000		1260594.31		P	0.7
6	☐	1.000		1221105.96		P	1.1
7	☐	1.000		1148294.23		P	1.8
8	☐	1.000		1094960.59		P	0.7

115 In (ISTD) [No Gas]

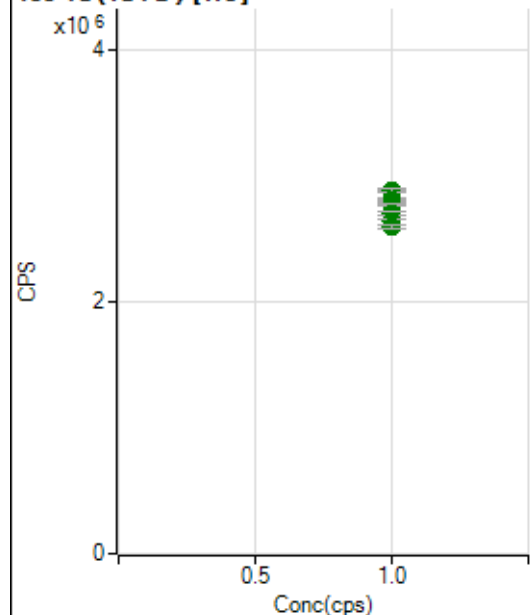
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2734924.67		A	1.6
2	☐	1.000		2809973.50		A	1.3
3	☐	1.000		2746962.31		A	1.1
4	☐	1.000		2713185.98		A	1.1
5	☐	1.000		2620747.26		A	0.2
6	☐	1.000		2601467.16		A	0.4
7	☐	1.000		2490070.93		A	1.3
8	☐	1.000		2421662.49		A	0.2

115 In (ISTD) [He]

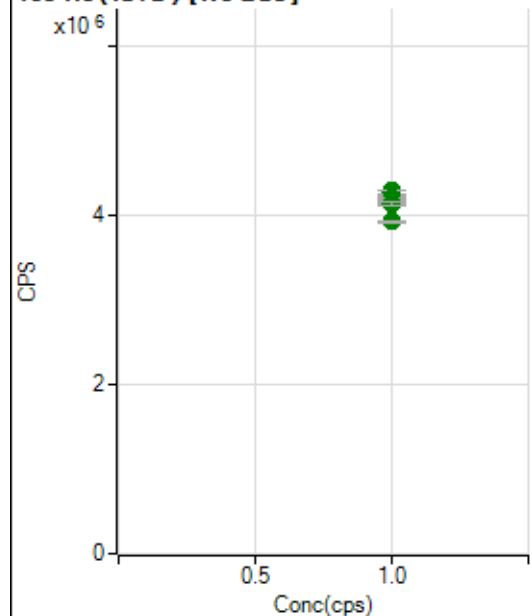
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		895008.37		P	1.5
2	☐	1.000		917446.02		P	1.1
3	☐	1.000		905675.17		P	0.6
4	☐	1.000		876162.88		P	0.7
5	☐	1.000		850610.37		P	0.5
6	☐	1.000		825494.03		P	0.9
7	☐	1.000		772901.15		P	2.3
8	☐	1.000		786809.47		P	0.9

159 Tb (ISTD) [No Gas]

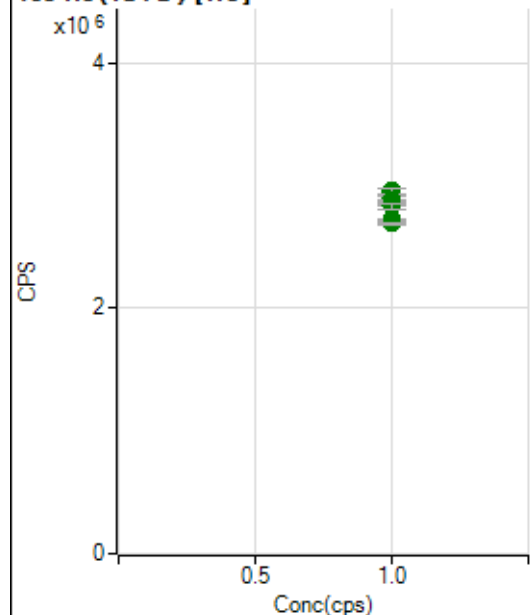
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4182169.90		A	1.3
2	☐	1.000		4315023.41		A	0.7
3	☐	1.000		4238632.30		A	1.3
4	☐	1.000		4267555.14		A	1.0
5	☐	1.000		4188867.02		A	0.5
6	☐	1.000		4165258.06		A	1.3
7	☐	1.000		4120963.10		A	0.9
8	☐	1.000		3960607.47		A	1.1

159 Tb (ISTD) [He]

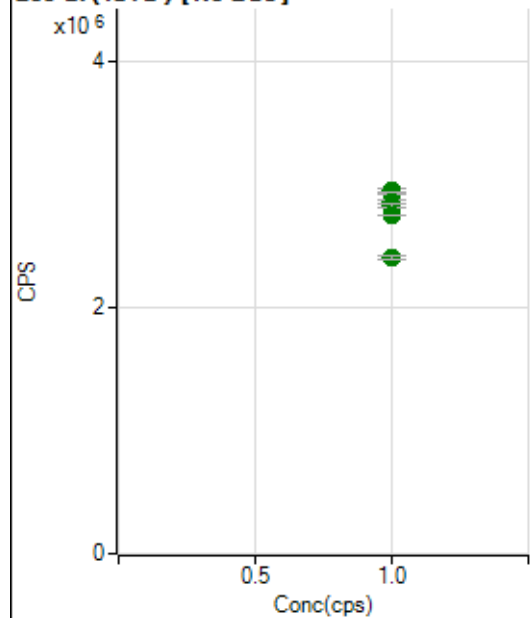
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2808162.84		A	1.0
2	☐	1.000		2878226.10		A	1.0
3	☐	1.000		2881668.57		A	1.2
4	☐	1.000		2804601.49		A	0.8
5	☐	1.000		2773293.99		A	0.7
6	☐	1.000		2706353.99		A	1.4
7	☐	1.000		2636015.38		A	1.3
8	☐	1.000		2593429.11		A	1.0

165 Ho (ISTD) [No Gas]

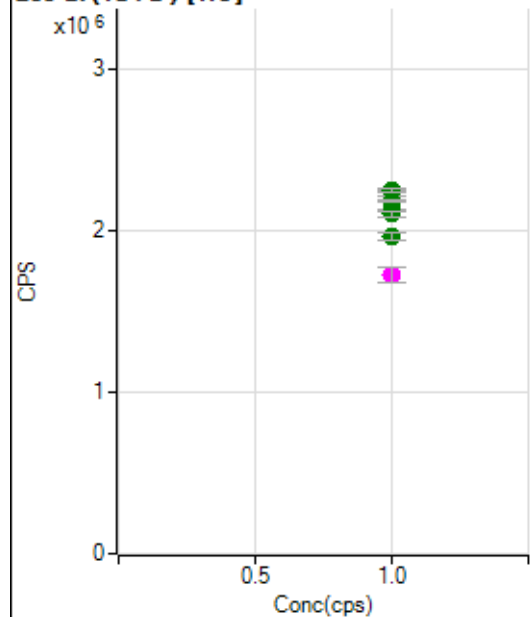
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4198917.99		A	2.6
2	☐	1.000		4274305.77		A	0.9
3	☐	1.000		4216799.07		A	0.3
4	☐	1.000		4293889.86		A	0.0
5	☐	1.000		4176347.44		A	0.7
6	☐	1.000		4209625.01		A	0.3
7	☐	1.000		4144779.03		A	1.0
8	☐	1.000		3930536.37		A	0.6

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2890630.65		A	1.9
2	☐	1.000		2952363.01		A	1.9
3	☐	1.000		2955228.81		A	1.4
4	☐	1.000		2875589.96		A	0.7
5	☐	1.000		2853800.93		A	1.0
6	☐	1.000		2832075.51		A	1.7
7	☐	1.000		2719101.80		A	0.5
8	☐	1.000		2686631.14		A	0.4

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2943552.11		A	0.2
2	☐	1.000		2949650.02		A	1.0
3	☐	1.000		2935605.93		A	0.3
4	☐	1.000		2935839.47		A	0.3
5	☐	1.000		2860741.14		A	0.6
6	☐	1.000		2832076.10		A	1.0
7	☐	1.000		2752789.37		A	0.2
8	☐	1.000		2403791.21		A	1.3

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2208282.43		A	0.2
2	☐	1.000		2240431.32		A	0.9
3	☐	1.000		2242192.34		A	1.1
4	☐	1.000		2177879.50		A	0.5
5	☐	1.000		2119562.16		A	0.9
6	☐	1.000		2100808.01		A	1.6
7	☐	1.000		1959553.62		A	2.2
8	☐	1.000		1725170.60		M	5.6

US EPA Tune Check Report

Operator Name Jaswal

Acq/Data Batch D:\Agilent\ICPMH\1\DATA\IP7061024-MS.b

Acq. Date-Time 2024-06-10 13:08:33

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		3675	36750.42			0.188	5.000
24		31709	317088.65			0.302	5.000
25		4035	40345.49			0.534	5.000
26		4535	45346.32			0.608	5.000
59		25331	253306.89			0.408	5.000
113		3674	36735.55			0.656	5.000
115		46504	465042.97			0.524	5.000
206		14154	141540.33			0.521	5.000
207		12922	129221.91			0.347	5.000
208		30598	305978.75			0.428	5.000
220		0	0.80			94.786	

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

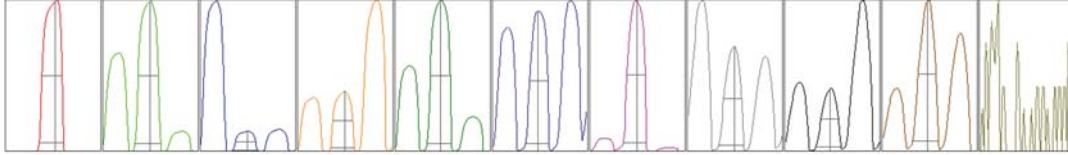
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	3668	3670	3676	3674	3686
24	31590	31709	31643	31824	31779
25	4008	4042	4025	4066	4032
26	4500	4518	4543	4539	4573
59	25151	25416	25375	25362	25349
113	3636	3674	3671	3702	3685
115	46161	46582	46402	46821	46556
206	14034	14178	14137	14208	14214
207	12856	12896	12949	12949	12961
208	30436	30734	30594	30721	30504

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	6031.34	9.10	8.90 - 9.10	
24	52249.20	24.00	23.90 - 24.10	
25	6729.53	25.00	24.90 - 25.10	
26	7485.00	26.00	25.90 - 26.10	
59	41753.50	58.95	58.90 - 59.10	
113	6614.78	112.95	112.90 - 113.10	
115	84401.33	115.00	114.90 - 115.10	
206	25881.74	206.00	205.90 - 206.10	
207	23461.87	206.95	206.90 - 207.10	
208	56226.66	207.95	207.90 - 208.10	
220	0.00	219.80	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.62	0.770	0.900	
24	0.63	0.813	0.900	
25	0.62	0.745	0.900	
26	0.63	0.745	0.900	
59	0.63	0.780	0.900	
113	0.56	0.745	0.900	
115	0.57	0.738	0.900	
206	0.56	0.791	0.900	
207	0.55	0.802	0.900	
208	0.56	0.819	0.900	
220	0.18	0.175		

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	8.1 V	Deflect	15.2 V
Extract 2	-110.0 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	160 V		

QP Parameters

Mass Gain	133	Axis Gain	0.9970	QP Bias	-3.0 V
Mass Offset	130	Axis Offset	0.17		

Hardware Settings

Torch

Torch H	-0.4 mm	Torch V	0.2 mm
---------	---------	---------	--------

EM

Discriminator	4.7 mV	Analog HV	2311 V	Pulse HV	1383 V
---------------	--------	-----------	--------	----------	--------

[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		7809	78092.11			0.582	
89		10521	105207.91			0.653	
205		15190	151897.40			0.520	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	7826	7749	7822	7868	7782
89	10523	10412	10520	10548	10601
205	15145	15097	15190	15308	15209

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

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

Lens Parameters

Extract 1	0.0 V	Omega Lens	8.6 V	Deflect	2.6 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	200 V		

QP Parameters

Mass Gain	133	Axis Gain	0.9970	QP Bias	-13.0 V
Mass Offset	130	Axis Offset	0.17		

Hardware Settings

Torch

Torch H	-0.4 mm	Torch V	0.2 mm
---------	---------	---------	--------

EM

Discriminator	4.7 mV	Analog HV	2311 V	Pulse HV	1383 V
---------------	--------	-----------	--------	----------	--------