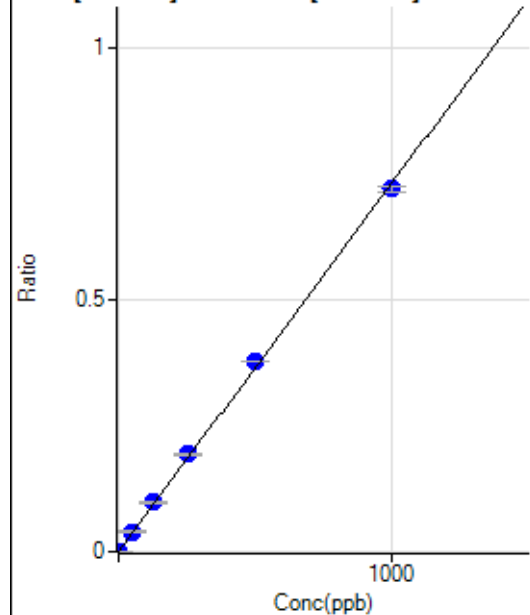


Calibration for 004CALB.d

Batch Folder: D:\Agilent\ICPMH\1\DATA\P7103023-MS2.b\
 Analysis File: P7103023-MS2.batch.bin
 DA Date-Time: 2023-10-31 03:42:34
 Calibration Title:
 Calibration Method: External Calibration
 VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.d	S00	2023-10-30 10:57:29
2	006CALS.d	S02	2023-10-30 11:04:02
3	007CALS.d	S03	2023-10-30 11:07:17
4	008CALS.d	S04	2023-10-30 11:10:26
5	009CALS.d	S05	2023-10-30 11:13:22
6	010CALS.d	S06	2023-10-30 11:16:15
7	011CALS.d	S07	2023-10-30 11:19:02
8	012CALS.d	S08	2023-10-30 11:21:49

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	71.11	0.0000	P	1.2
2	☐	1.000	1.016	1148.94	0.0008	P	5.6
3	☐	50.000	54.312	57652.88	0.0397	P	2.9
4	☐	125.000	133.545	140765.33	0.0976	P	3.0
5	☐	250.000	265.350	271777.51	0.1939	P	1.7
6	☐	500.000	518.067	517665.86	0.3785	P	0.2
7	☐	1000.000	985.845	973189.47	0.7203	P	1.4
8	☐			968.93	0.0008	P	14.1

$$y = 7.3054\text{E-}004 * x + 4.9873\text{E-}005$$

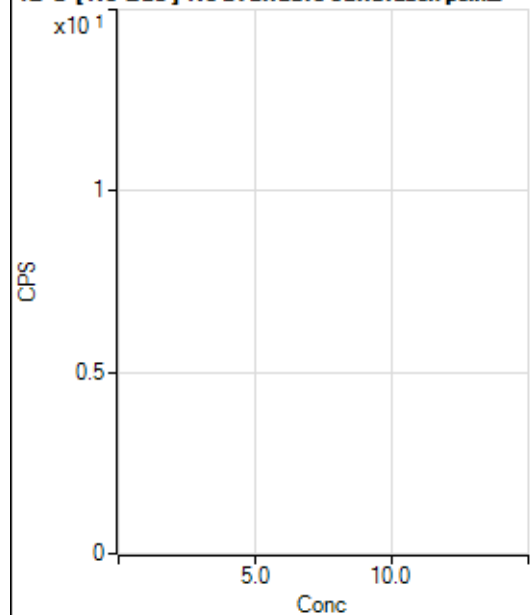
$$R = 0.9996$$

$$DL = 0.002498$$

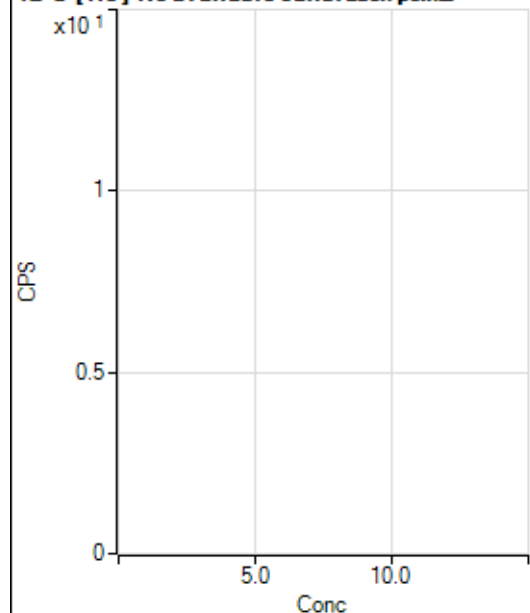
$$BEC = 0.06827$$

Weight: <None>

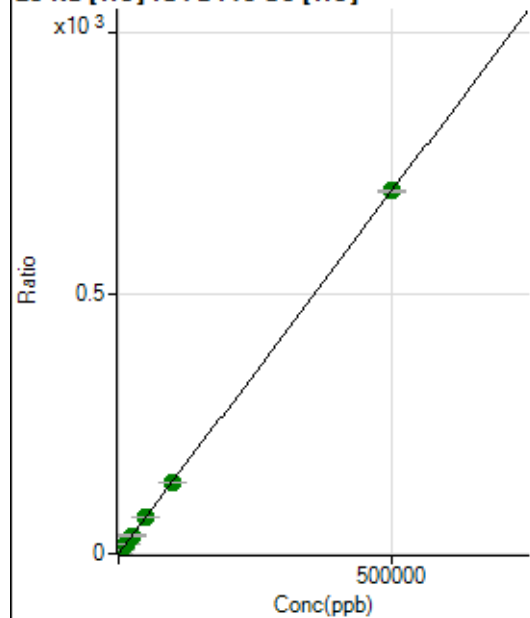
Min Conc: 0

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	8618.05	0.0342	P	2.8
2	☐	500.000	456.824	161332.39	0.6699	P	1.2
3	☐	5000.000	5003.955	1732428.01	6.9980	A	1.0
4	☐	12500.000	12599.603	4147382.82	17.5687	A	0.5
5	☐	25000.000	25135.868	7992979.19	35.0151	A	0.5
6	☐	50000.000	49615.916	15598291.02	69.0834	A	1.0
7	☐	100000.00	97603.441	30034422.05	135.8665	A	0.3
8	☐	500000.00	500508.44	137422375.7	696.5796	A	0.5

$$y = 0.0014 * x + 0.0342$$

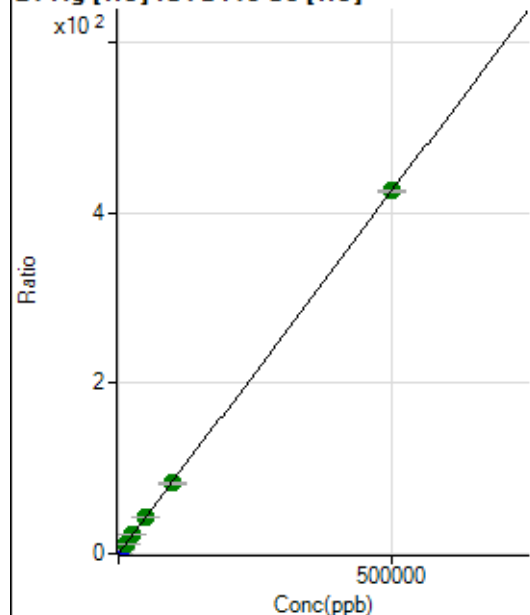
$$R = 1.0000$$

$$DL = 2.069$$

$$BEC = 24.54$$

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	673.36	0.0027	P	7.8
2	☐	500.000	461.173	95233.40	0.3954	P	0.7
3	☐	5000.000	5133.218	1082922.35	4.3744	P	0.5
4	☐	12500.000	12712.813	2556481.89	10.8295	A	0.7
5	☐	25000.000	25274.849	4914185.83	21.5279	A	0.0
6	☐	50000.000	49370.657	9494453.75	42.0490	A	0.5
7	☐	100000.00	97145.836	18289103.48	82.7365	A	0.9
8	☐	500000.00	500613.41	84111457.08	426.3477	A	0.5

$$y = 8.5165E-004 * x + 0.0027$$

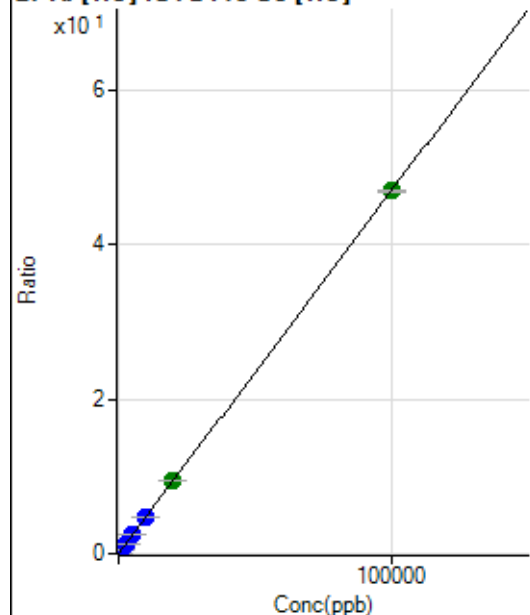
$$R = 1.0000$$

$$DL = 0.7321$$

$$BEC = 3.134$$

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	174.45	0.0007	P	20.4
2	☐	20.000	18.814	2293.53	0.0095	P	2.6
3	☐	1000.000	1043.646	121430.93	0.4905	P	1.3
4	☐	2500.000	2633.204	291897.66	1.2366	P	1.1
5	☐	5000.000	5207.719	558092.48	2.4449	P	0.3
6	☐	10000.000	10243.857	1085748.51	4.8085	P	0.4
7	☐	20000.000	20097.624	2085179.05	9.4333	A	2.2
8	☐	100000.00	99941.937	9253875.70	46.9072	A	0.8

$$y = 4.6934E-004 * x + 6.9244E-004$$

$$R = 1.0000$$

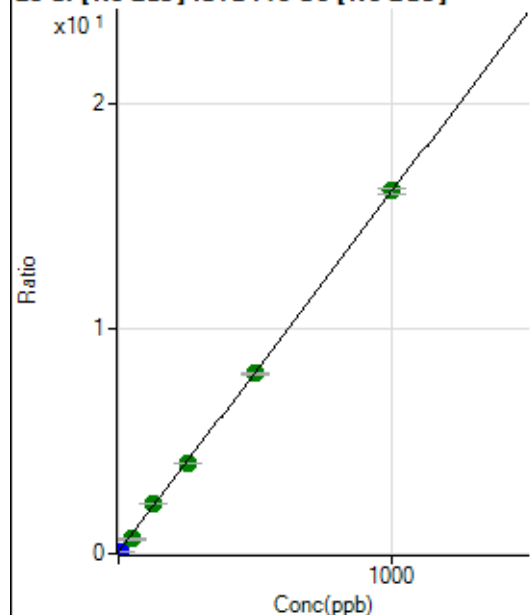
$$DL = 0.9016$$

$$BEC = 1.475$$

Weight: <None>

Min Conc: 0

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	242643.75	0.0757	P	0.3
2	☐	10.000	0.262	263907.04	0.0799	P	1.3
3	☐	50.000	35.800	2082476.13	0.6495	A	3.5
4	☐	125.000	133.274	6841222.33	2.2118	A	1.2
5	☐	250.000	246.965	12250023.57	4.0341	A	1.4
6	☐	500.000	494.959	23368356.04	8.0090	A	0.7
7	☐	1000.000	1003.052	46816551.53	16.1528	A	1.2
8	☐			273228.85	0.1007	P	3.1

$$y = 0.0160 * x + 0.0757$$

$$R = 0.9998$$

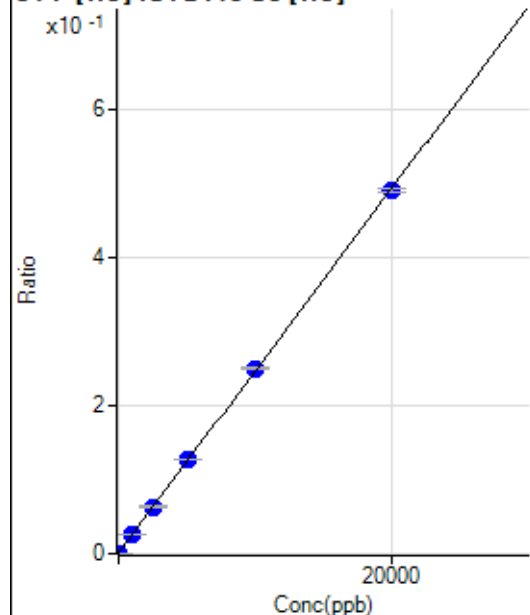
$$DL = 0.0483$$

$$BEC = 4.721$$

Weight: <None>

Min Conc: 0

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	-13.037	155.56	0.0006	P	16.9
2	☐	0.000	13.037	303.34	0.0013	P	4.0
3	☐	1000.000	1022.568	6472.56	0.0261	P	0.6
4	☐	2500.000	2546.315	15036.34	0.0637	P	3.4
5	☐	5000.000	5153.735	29213.44	0.1280	P	0.4
6	☐	10000.000	10147.596	56689.99	0.2511	P	1.7
7	☐	20000.000	19880.850	108537.86	0.4910	P	1.1
8	☐			187.78	0.0010	P	15.8

$$y = 2.4650E-005 * x + 9.3819E-004$$

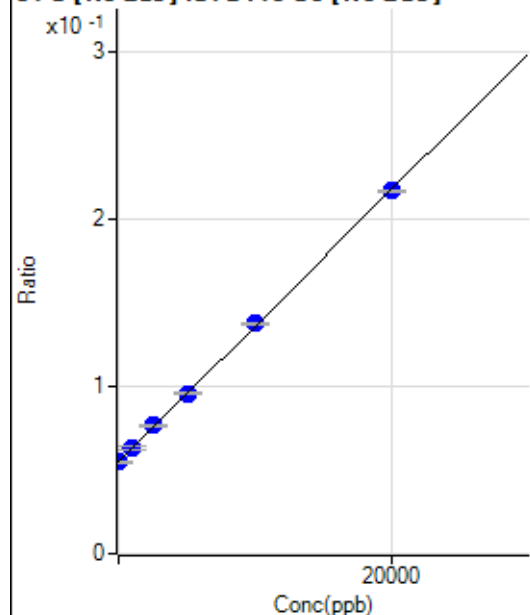
$$R = 0.9999$$

$$DL = 9.415$$

$$BEC = 38.06$$

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	-20.426	175730.92	0.0548	P	0.9
2	☐	0.000	20.426	182187.08	0.0551	P	1.8
3	☐	1000.000	1073.379	204315.68	0.0637	P	3.2
4	☐	2500.000	2649.381	236817.04	0.0766	P	1.0
5	☐	5000.000	5032.842	291494.23	0.0960	P	1.1
6	☐	10000.000	10144.478	401622.86	0.1376	P	0.8
7	☐	20000.000	19897.209	629333.74	0.2171	P	0.8
8	☐			145687.47	0.0537	P	2.1

$$y = 8.1499\text{E-}006 * x + 0.0550$$

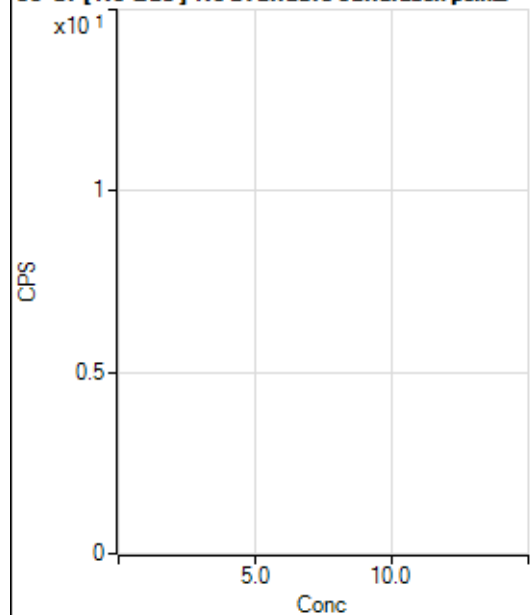
R = 0.9999

DL = 272.2

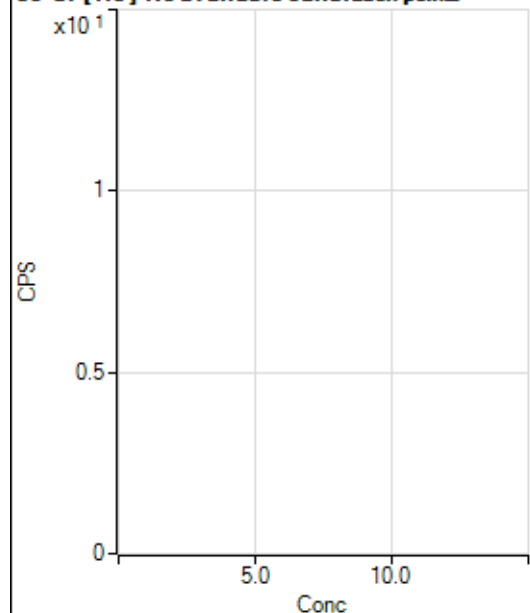
BEC = 6745

Weight: <None>

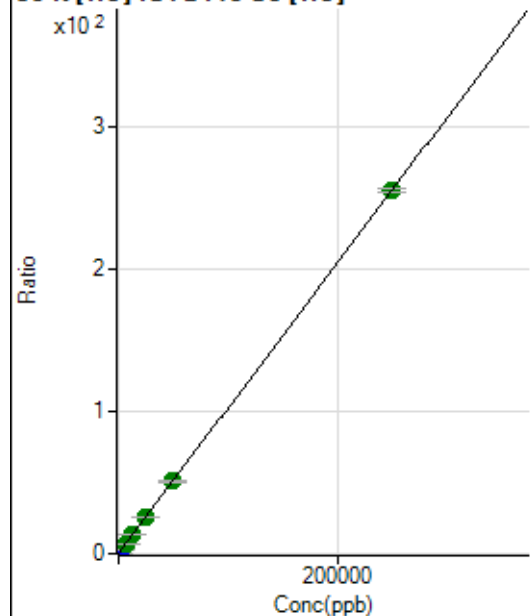
Min Conc: 0

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	49350.83	0.1956	P	2.2
2	☐	500.000	454.716	158678.40	0.6589	P	1.0
3	☐	2500.000	2695.004	728121.35	2.9412	P	0.9
4	☐	6250.000	6373.986	1579112.02	6.6891	A	2.3
5	☐	12500.000	12649.193	2986211.20	13.0819	A	0.6
6	☐	25000.000	25052.558	5806643.25	25.7177	A	1.6
7	☐	50000.000	49738.710	11244350.80	50.8666	A	0.9
8	☐	250000.00	250034.58	50290142.03	254.9164	A	1.2

$$y = 0.0010 * x + 0.1956$$

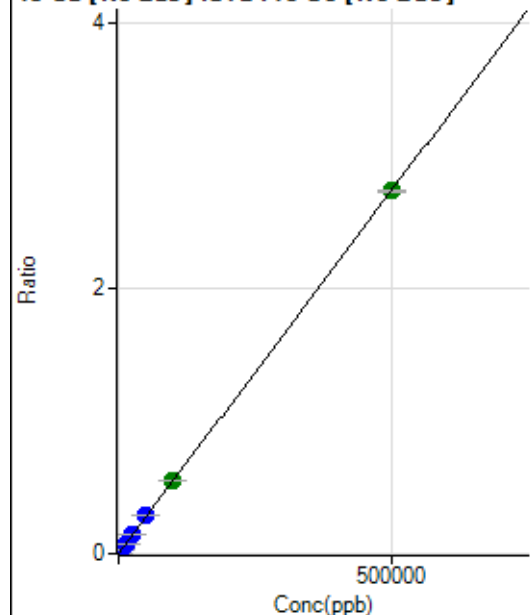
$$R = 1.0000$$

$$DL = 12.67$$

$$BEC = 192$$

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	478.75	0.0001	P	5.1
2	☐	500.000	458.661	8782.22	0.0027	P	2.0
3	☐	5000.000	5385.779	94925.62	0.0296	P	3.6
4	☐	12500.000	13323.617	225860.04	0.0730	P	1.1
5	☐	25000.000	26206.655	435720.15	0.1435	P	0.9
6	☐	50000.000	52412.547	836816.61	0.2868	P	1.3
7	☐	100000.00	100236.23	1589361.94	0.5484	A	1.6
8	☐	500000.00	499626.75	7416462.67	2.7328	A	0.7

$$y = 5.4694\text{E-}006 * x + 1.4929\text{E-}004$$

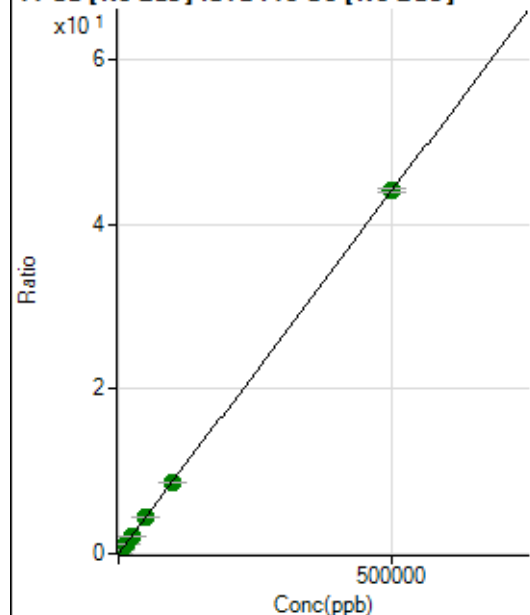
$$R = 1.0000$$

$$DL = 4.206$$

$$BEC = 27.3$$

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	14298.08	0.0045	P	1.0
2	☐	500.000	455.039	147028.96	0.0445	P	1.3
3	☐	5000.000	5111.752	1457030.92	0.4542	A	1.6
4	☐	12500.000	12426.294	3394720.58	1.0978	A	3.4
5	☐	25000.000	24613.203	6590057.46	2.1701	A	0.5
6	☐	50000.000	49564.895	12736789.61	4.3654	A	1.2
7	☐	100000.00	97909.305	24980702.92	8.6190	A	1.4
8	☐	500000.00	500481.75	119515231.6	44.0395	A	1.0

$$y = 8.7985\text{E-}005 * x + 0.0045$$

$$R = 1.0000$$

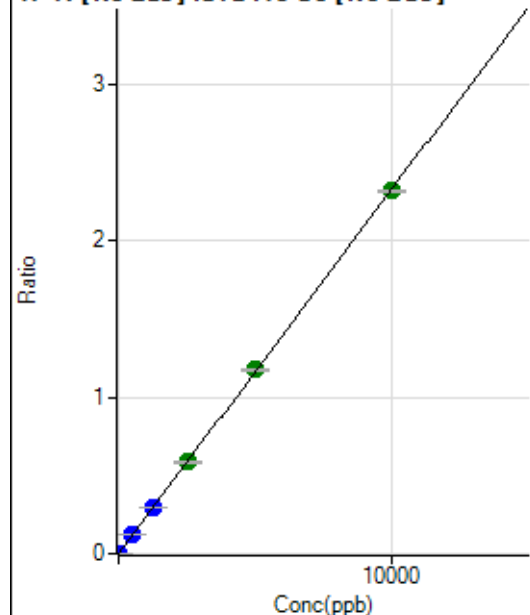
$$DL = 1.524$$

$$BEC = 50.68$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	107.78	0.0000	P	11.7
2	☐	5.000	4.580	3627.14	0.0011	P	3.4
3	☐	500.000	513.201	382475.00	0.1193	P	3.4
4	☐	1250.000	1283.804	922798.81	0.2984	P	1.4
5	☐	2500.000	2509.464	1770990.55	0.5832	A	2.3
6	☐	5000.000	5055.612	3427815.30	1.1748	A	0.8
7	☐	10000.000	9964.943	6711759.34	2.3156	A	0.4
8	☐			4591.85	0.0017	P	8.1

$$y = 2.3237E-004 * x + 3.3589E-005$$

$$R = 1.0000$$

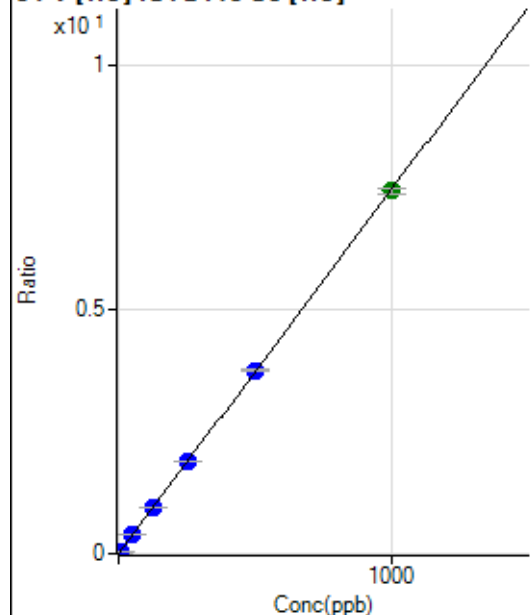
$$DL = 0.0509$$

$$BEC = 0.1446$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	10.00	0.0000	P	87.9
2	☐	5.000	4.761	8566.94	0.0356	P	1.2
3	☐	50.000	50.613	93529.61	0.3778	P	0.7
4	☐	125.000	127.294	224292.67	0.9501	P	0.7
5	☐	250.000	255.383	435127.17	1.9062	P	0.3
6	☐	500.000	504.221	849744.40	3.7635	P	1.2
7	☐	1000.000	996.228	1643742.29	7.4357	A	1.3
8	☐			1664.56	0.0084	P	0.9

$$y = 0.0075 * x + 3.9728E-005$$

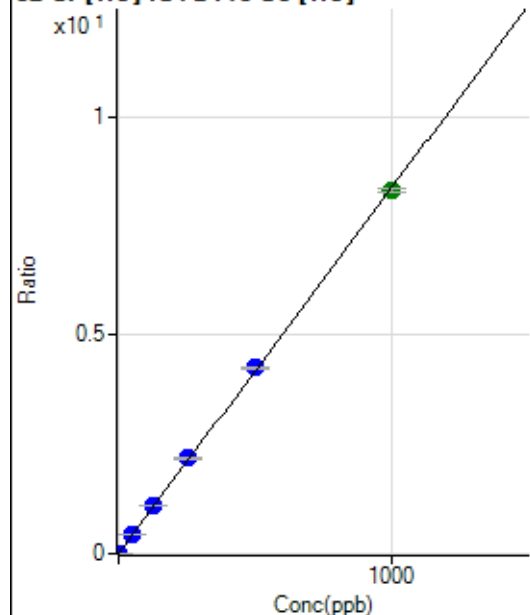
$$R = 1.0000$$

$$DL = 0.01404$$

$$BEC = 0.005323$$

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	911.15	0.0036	P	3.0
2	☐	2.000	1.946	4788.59	0.0199	P	1.5
3	☐	50.000	52.066	108654.30	0.4389	P	0.6
4	☐	125.000	129.606	256628.04	1.0871	P	1.0
5	☐	250.000	260.652	498240.43	2.1827	P	0.6
6	☐	500.000	508.689	961039.42	4.2563	P	0.9
7	☐	1000.000	992.313	1834614.80	8.2994	A	1.1
8	☐			12847.78	0.0651	P	0.3

$$y = 0.0084 * x + 0.0036$$

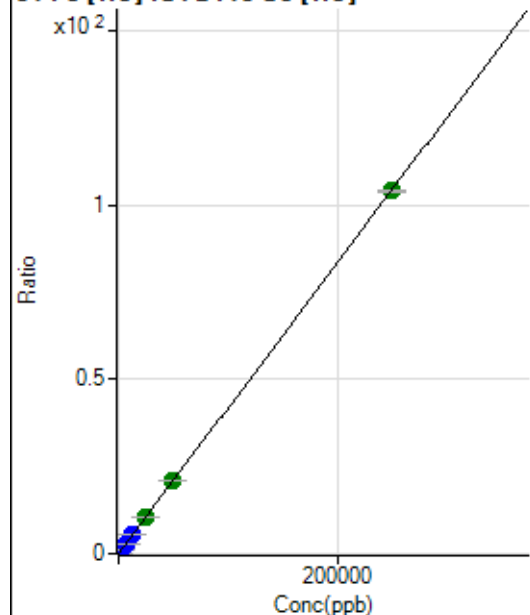
$$R = 0.9999$$

$$DL = 0.03916$$

$$BEC = 0.4321$$

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	1421.19	0.0056	P	4.6
2	☐	50.000	49.937	6363.64	0.0264	P	1.6
3	☐	2500.000	2730.924	282862.79	1.1426	P	0.7
4	☐	6250.000	6889.773	678441.25	2.8741	P	1.2
5	☐	12500.000	13723.632	1305523.14	5.7192	P	0.3
6	☐	25000.000	25692.766	2416574.86	10.7023	A	0.3
7	☐	50000.000	50444.306	4643702.26	21.0072	A	1.5
8	☐	250000.00	249762.37	20515217.06	103.9894	A	0.6

$$y = 4.1633E-004 * x + 0.0056$$

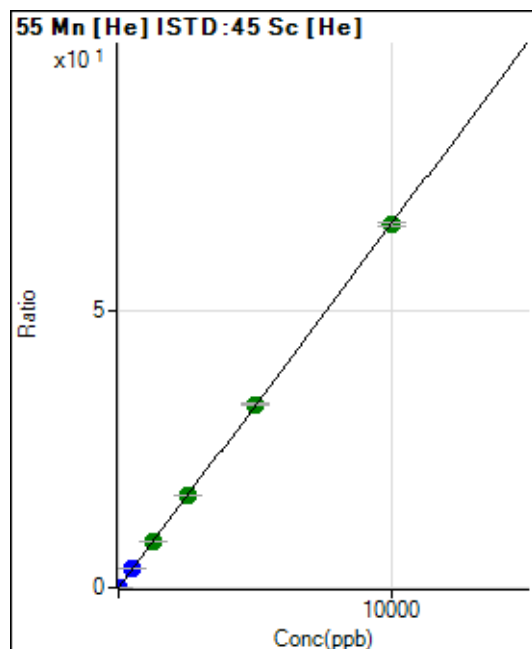
$$R = 1.0000$$

$$DL = 1.885$$

$$BEC = 13.53$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	83.33	0.0003	P	25.2
2	☐	1.000	0.930	1552.32	0.0064	P	5.8
3	☐	500.000	517.190	842245.21	3.4022	P	0.8
4	☐	1250.000	1263.215	1961442.71	8.3093	A	1.5
5	☐	2500.000	2545.943	3822762.13	16.7467	A	0.7
6	☐	5000.000	5037.560	7481555.86	33.1357	A	1.4
7	☐	10000.000	9967.223	14492425.34	65.5613	A	1.2
8	☐			11784.73	0.0597	P	3.2

$$y = 0.0066 * x + 3.3051E-004$$

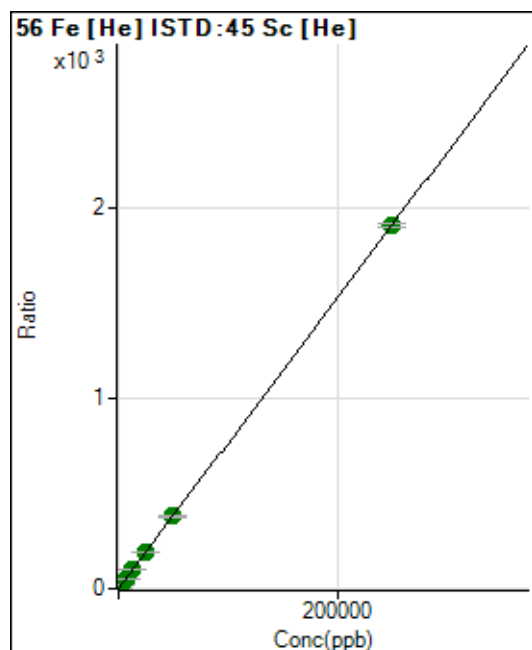
$$R = 1.0000$$

$$DL = 0.03795$$

$$BEC = 0.05025$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	10025.66	0.0397	P	1.4
2	☐	50.000	49.556	100729.82	0.4183	P	1.4
3	☐	2500.000	2553.535	4838388.05	19.5448	A	1.0
4	☐	6250.000	6454.632	11647930.94	49.3432	A	1.0
5	☐	12500.000	12921.597	22539604.11	98.7409	A	0.4
6	☐	25000.000	25372.127	43767892.68	193.8439	A	1.0
7	☐	50000.000	49834.509	84156681.52	380.6991	A	1.4
8	☐	250000.00	249969.15	376705967.7	1,909.421	A	1.0

$$y = 0.0076 * x + 0.0397$$

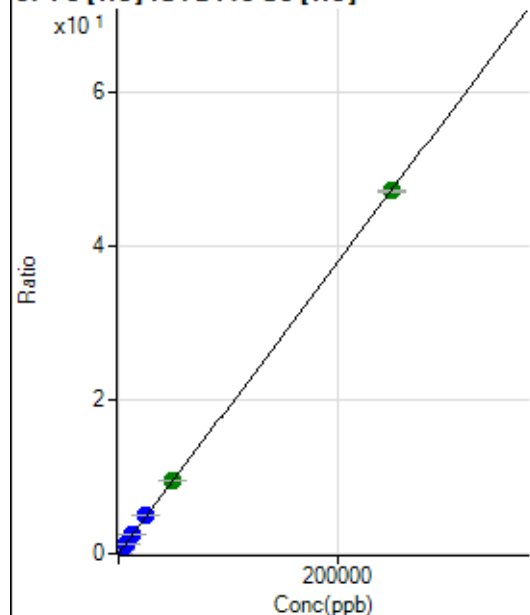
$$R = 1.0000$$

$$DL = 0.2117$$

$$BEC = 5.202$$

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	542.24	0.0021	P	5.0
2	☐	50.000	49.006	2748.06	0.0114	P	2.6
3	☐	2500.000	2736.260	128548.08	0.5192	P	0.4
4	☐	6250.000	6819.234	304708.68	1.2908	P	1.5
5	☐	12500.000	13684.597	590825.63	2.5883	P	0.0
6	☐	25000.000	26799.051	1144003.44	5.0666	P	1.0
7	☐	50000.000	50491.682	2109897.05	9.5441	A	1.0
8	☐	250000.00	249645.93	9307875.83	47.1802	A	0.2

$$y = 1.8898\text{E-}004 * x + 0.0021$$

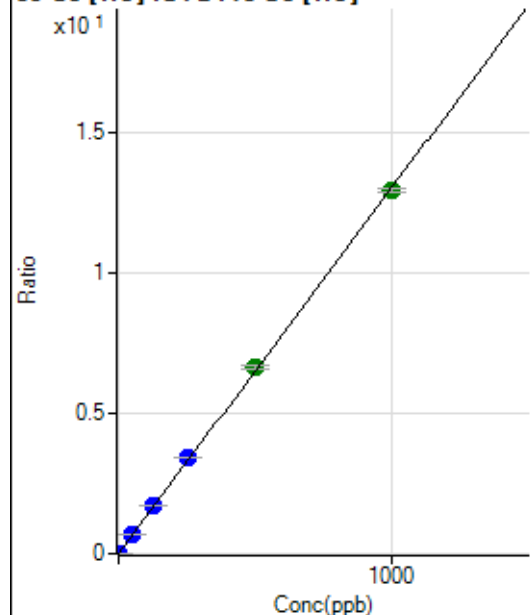
$$R = 1.0000$$

$$DL = 1.723$$

$$BEC = 11.38$$

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	36.67	0.0001	P	47.6
2	☐	1.000	1.080	3428.20	0.0142	P	3.4
3	☐	50.000	52.422	169350.40	0.6841	P	0.9
4	☐	125.000	130.634	402376.48	1.7045	P	0.8
5	☐	250.000	261.356	778403.94	3.4100	P	0.6
6	☐	500.000	507.854	1496075.74	6.6261	A	2.1
7	☐	1000.000	992.409	2862181.10	12.9480	A	1.1
8	☐			5401.02	0.0274	P	2.5

$$y = 0.0130 * x + 1.4562\text{E-}004$$

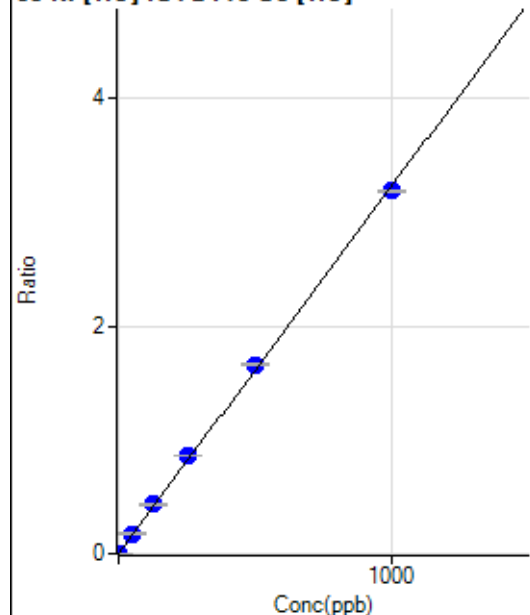
$$R = 0.9999$$

$$DL = 0.01593$$

$$BEC = 0.01116$$

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	277.78	0.0011	P	16.7
2	☐	1.000	0.925	984.49	0.0041	P	6.6
3	☐	50.000	54.473	43820.57	0.1770	P	2.0
4	☐	125.000	133.313	101895.10	0.4316	P	0.9
5	☐	250.000	266.515	196731.05	0.8618	P	0.6
6	☐	500.000	513.937	375012.38	1.6609	P	1.1
7	☐	1000.000	987.640	705337.83	3.1908	P	0.9
8	☐			3673.81	0.0186	P	2.2

$$y = 0.0032 * x + 0.0011$$

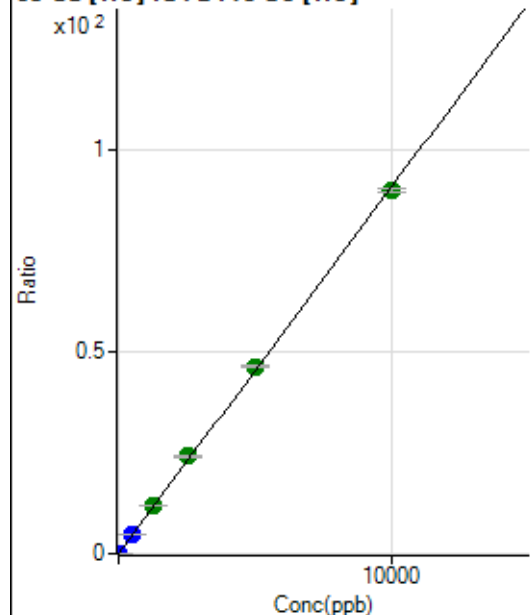
$$R = 0.9997$$

$$DL = 0.1707$$

$$BEC = 0.3407$$

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	614.46	0.0024	P	0.8
2	☐	2.000	1.969	4885.29	0.0203	P	1.5
3	☐	500.000	532.780	1196028.64	4.8313	P	0.7
4	☐	1250.000	1322.245	2829529.75	11.9865	A	1.0
5	☐	2500.000	2650.872	5485040.27	24.0285	A	0.8
6	☐	5000.000	5112.390	10462734.15	46.3383	A	0.9
7	☐	10000.000	9895.417	19826641.51	89.6890	A	1.1
8	☐			10954.13	0.0555	P	3.3

$$y = 0.0091 * x + 0.0024$$

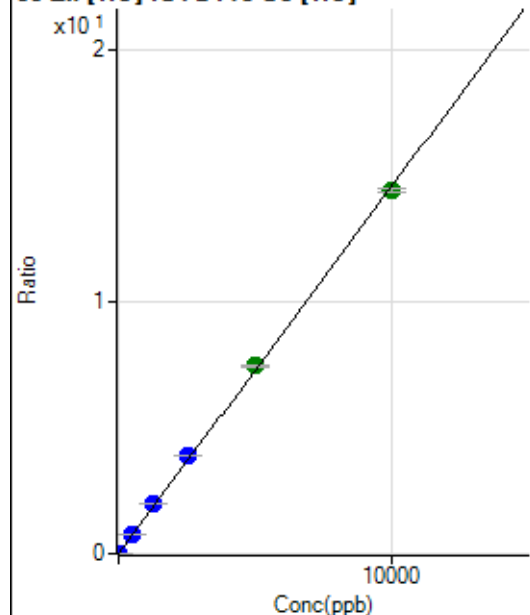
$$R = 0.9998$$

$$DL = 0.006108$$

$$BEC = 0.2687$$

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	387.79	0.0015	P	3.6
2	☐	2.000	2.190	1137.83	0.0047	P	6.9
3	☐	500.000	545.640	197024.01	0.7958	P	0.6
4	☐	1250.000	1343.878	462176.00	1.9579	P	0.9
5	☐	2500.000	2672.881	888553.47	3.8925	P	0.6
6	☐	5000.000	5115.412	1681689.73	7.4482	A	1.5
7	☐	10000.000	9885.057	3181283.36	14.3916	A	1.2
8	☐			9983.42	0.0506	P	1.0

$$y = 0.0015 * x + 0.0015$$

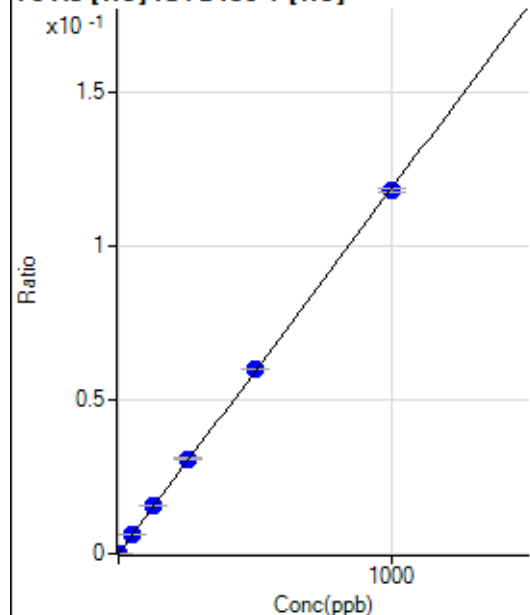
$$R = 0.9997$$

$$DL = 0.1139$$

$$BEC = 1.056$$

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	2.22	0.0000	P	86.6
2	☐	1.000	1.077	265.56	0.0001	P	11.6
3	☐	50.000	52.770	13172.61	0.0063	P	1.9
4	☐	125.000	131.768	31616.97	0.0156	P	1.3
5	☐	250.000	260.489	61273.57	0.0309	P	2.2
6	☐	500.000	505.581	119113.08	0.0600	P	0.4
7	☐	1000.000	993.603	228610.19	0.1179	P	1.1
8	☐			128.89	0.0001	P	7.3

$$y = 1.1863E-004 * x + 1.0283E-006$$

$$R = 0.9999$$

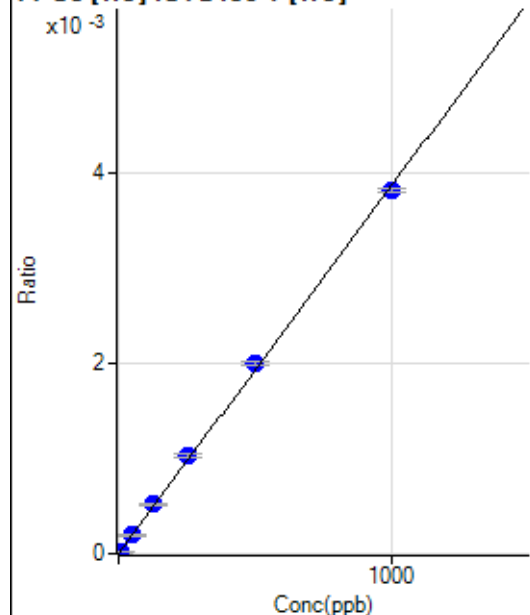
$$DL = 0.02252$$

$$BEC = 0.008668$$

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	1.11	0.0000	P	173.
2	☐	5.000	5.704	46.67	0.0000	P	24.9
3	☐	50.000	52.024	424.46	0.0002	P	9.8
4	☐	125.000	135.193	1058.94	0.0005	P	3.3
5	☐	250.000	265.428	2037.94	0.0010	P	3.4
6	☐	500.000	517.149	3975.01	0.0020	P	1.2
7	☐	1000.000	986.190	7401.91	0.0038	P	1.2
8	☐			48.89	0.0000	P	28.9

$$y = 3.8694\text{E-}006 * x + 5.1972\text{E-}007$$

$$R = 0.9996$$

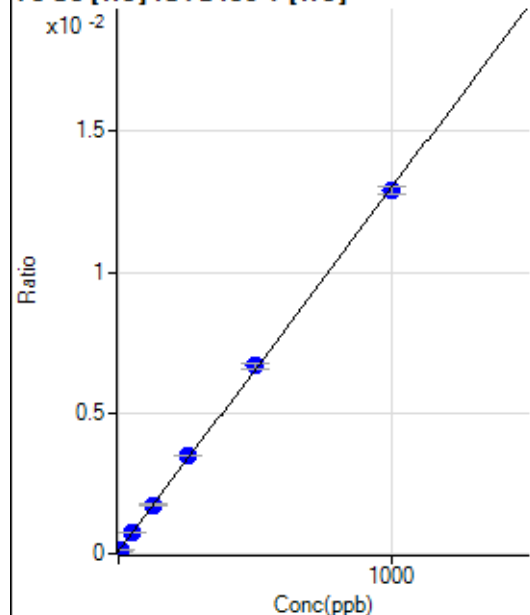
$$DL = 0.6979$$

$$BEC = 0.1343$$

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	185.56	0.0001	P	4.0
2	☐	5.000	4.674	303.34	0.0001	P	8.4
3	☐	50.000	52.910	1618.99	0.0008	P	2.6
4	☐	125.000	127.567	3504.90	0.0017	P	2.4
5	☐	250.000	263.665	6919.46	0.0035	P	0.6
6	☐	500.000	509.377	13226.01	0.0067	P	2.4
7	☐	1000.000	991.430	24980.03	0.0129	P	2.1
8	☐			286.67	0.0002	P	14.1

$$y = 1.2905\text{E-}005 * x + 8.6840\text{E-}005$$

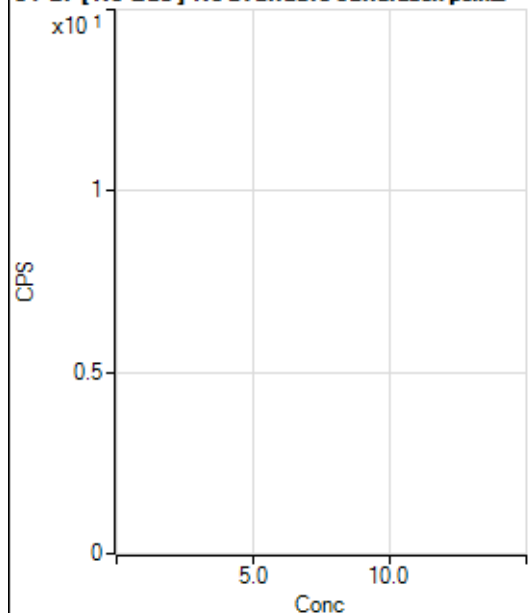
$$R = 0.9998$$

$$DL = 0.7992$$

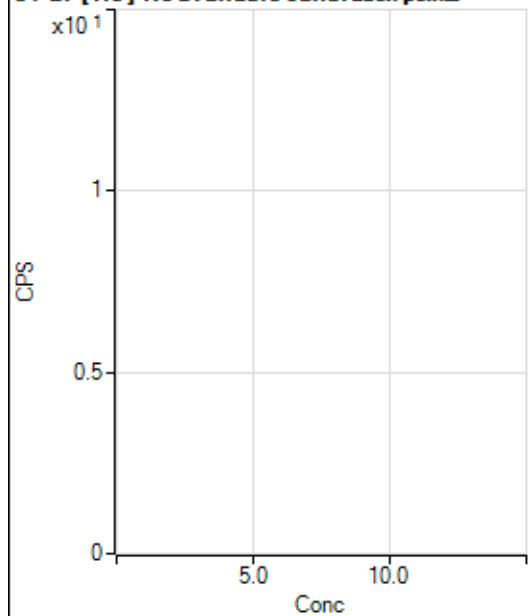
$$BEC = 6.729$$

Weight: <None>

Min Conc: 0

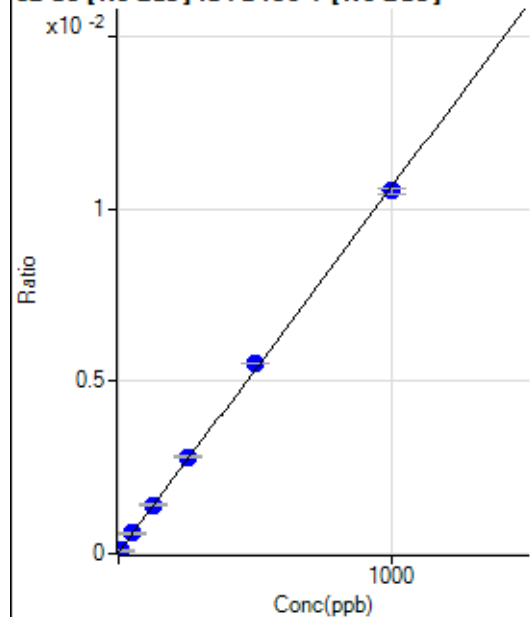
81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			27381.07		P	1.1
2	☐			28468.58		P	2.4
3	☐			28077.85		P	0.7
4	☐			25096.98		P	1.5
5	☐			24563.85		P	1.5
6	☐			24997.89		P	0.8
7	☐			24303.41		P	2.4
8	☐			24383.58		P	1.3

81 Br [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			116.67		P	24.9
2	☐			46.67		P	7.1
3	☐			91.11		P	25.7
4	☐			92.22		P	13.7
5	☐			90.00		P	6.4
6	☐			92.22		P	17.1
7	☐			82.22		P	10.2
8	☐			237.78		P	9.3

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	351.65	0.0000	P	3.2
2	☐	5.000	4.284	780.07	0.0001	P	5.4
3	☐	50.000	51.630	5405.89	0.0006	P	4.7
4	☐	125.000	129.364	12676.66	0.0014	P	3.2
5	☐	250.000	260.769	24664.12	0.0028	P	1.7
6	☐	500.000	515.383	47614.99	0.0055	P	0.3
7	☐	1000.000	988.993	91011.25	0.0105	P	1.4
8	☐			863.12	0.0001	P	2.6

$$y = 1.0613\text{E-}005 * x + 3.9008\text{E-}005$$

$$R = 0.9997$$

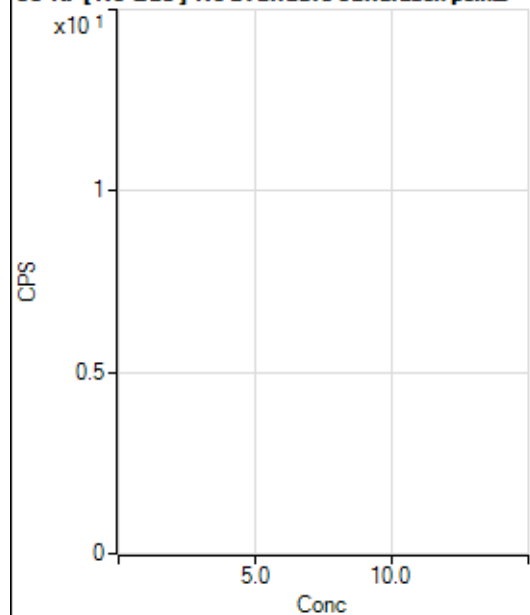
$$DL = 0.353$$

$$BEC = 3.675$$

Weight: <None>

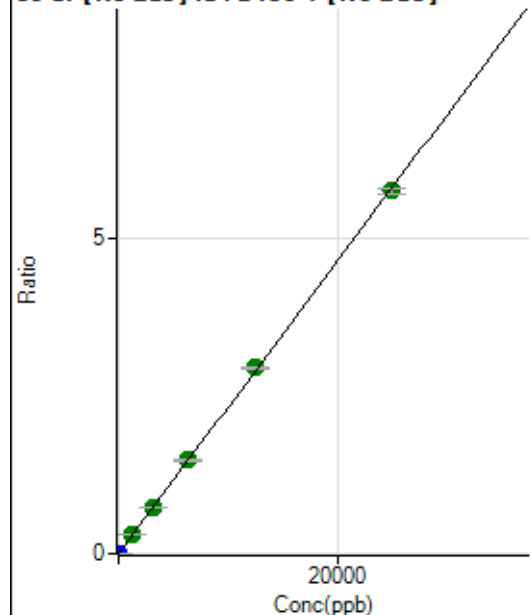
Min Conc: 0

83 Kr [No Gas] No available calibration points



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			105.56		P	14.6
2	☐			105.56		P	4.8
3	☐			106.67		P	10.8
4	☐			92.22		P	29.2
5	☐			98.89		P	5.1
6	☐			103.33		P	21.2
7	☐			130.00		P	11.2
8	☐			156.67		P	7.7

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	217.78	0.0000	P	13.3
2	☐	1.000	0.855	2054.61	0.0002	P	3.7
3	☐	1250.000	1277.331	2731210.41	0.2965	A	4.1
4	☐	3125.000	3158.734	6583991.71	0.7332	A	2.2
5	☐	6250.000	6389.792	13035421.75	1.4833	A	0.2
6	☐	12500.000	12742.493	25566184.90	2.9579	A	1.1
7	☐	25000.000	24838.222	49808895.37	5.7656	A	1.4
8	☐			25471.03	0.0032	P	5.1

$$y = 2.3213E-004 * x + 2.4143E-005$$

R = 0.9999

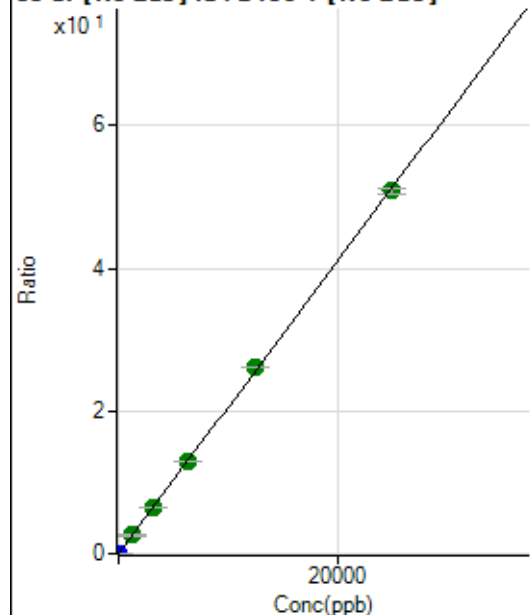
DL = 0.04138

BEC = 0.104

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	434.46	0.0000	P	11.2
2	☐	1.000	0.879	17042.21	0.0018	P	3.9
3	☐	1250.000	1268.302	23896311.31	2.5940	A	3.6
4	☐	3125.000	3130.555	57492163.03	6.4027	A	2.0
5	☐	6250.000	6353.386	114195233.8	12.9940	A	0.7
6	☐	12500.000	12744.819	225300758.8	26.0658	A	0.5
7	☐	25000.000	24850.134	439043433.4	50.8237	A	1.9
8	☐			221826.03	0.0282	P	6.9

$$y = 0.0020 * x + 4.8200E-005$$

R = 0.9999

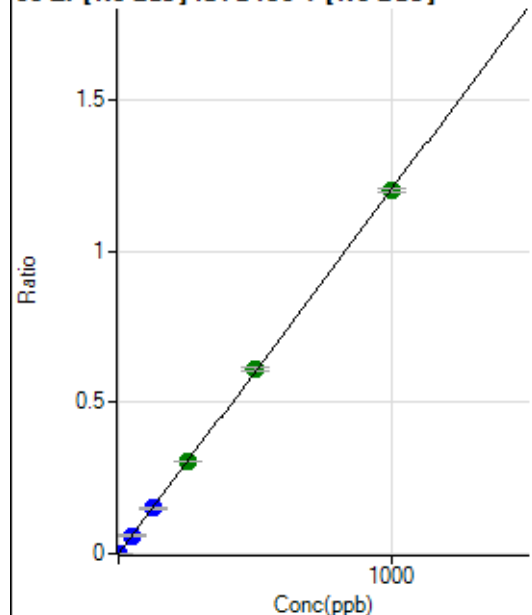
DL = 0.007914

BEC = 0.02357

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	348.90	0.0000	P	3.7
2	☐	1.000	0.872	10054.63	0.0011	P	1.0
3	☐	50.000	49.799	553120.37	0.0600	P	2.9
4	☐	125.000	125.440	1357291.11	0.1512	P	2.3
5	☐	250.000	252.099	2669484.07	0.3038	A	0.7
6	☐	500.000	506.259	5272139.68	0.6100	A	1.3
7	☐	1000.000	996.301	10370000.12	1.2003	A	1.0
8	☐			9430.90	0.0012	P	2.3

$$y = 0.0012 * x + 3.8701E-005$$

$$R = 1.0000$$

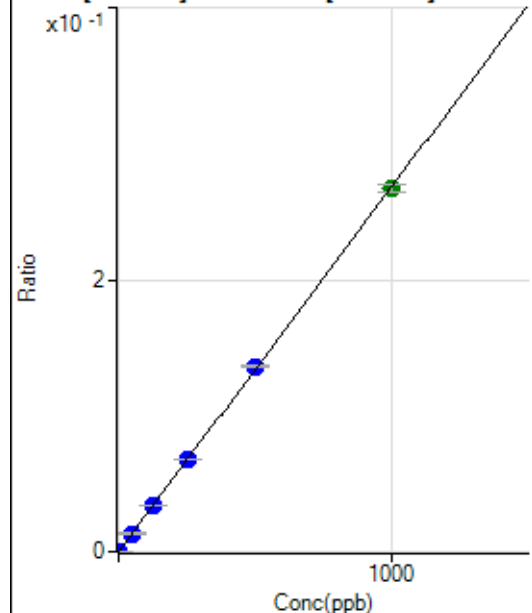
$$DL = 0.003526$$

$$BEC = 0.03212$$

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	60.00	0.0000	P	14.8
2	☐	1.000	0.873	2222.41	0.0002	P	6.9
3	☐	50.000	50.075	123697.99	0.0134	P	3.3
4	☐	125.000	126.305	303996.89	0.0339	P	2.3
5	☐	250.000	252.764	595374.33	0.0677	P	1.2
6	☐	500.000	508.266	1177439.50	0.1362	P	0.7
7	☐	1000.000	995.009	2303606.41	0.2667	A	2.1
8	☐			2087.95	0.0003	P	3.0

$$y = 2.6800E-004 * x + 6.6555E-006$$

$$R = 0.9999$$

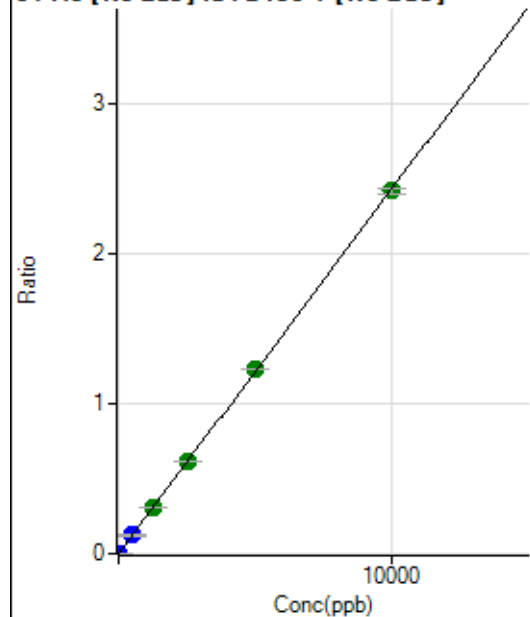
$$DL = 0.011$$

$$BEC = 0.02483$$

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	170.01	0.0000	P	25.0
2	☐	5.000	5.097	11593.57	0.0013	P	0.5
3	☐	500.000	503.929	1126598.07	0.1223	P	3.4
4	☐	1250.000	1265.683	2757733.01	0.3071	A	2.2
5	☐	2500.000	2524.956	5384454.92	0.6127	A	1.0
6	☐	5000.000	5067.589	10628381.93	1.2296	A	0.7
7	☐	10000.000	9957.810	20872828.99	2.4162	A	1.6
8	☐			15232.47	0.0019	P	5.4

$$y = 2.4264\text{E-}004 * x + 1.8873\text{E-}005$$

$$R = 1.0000$$

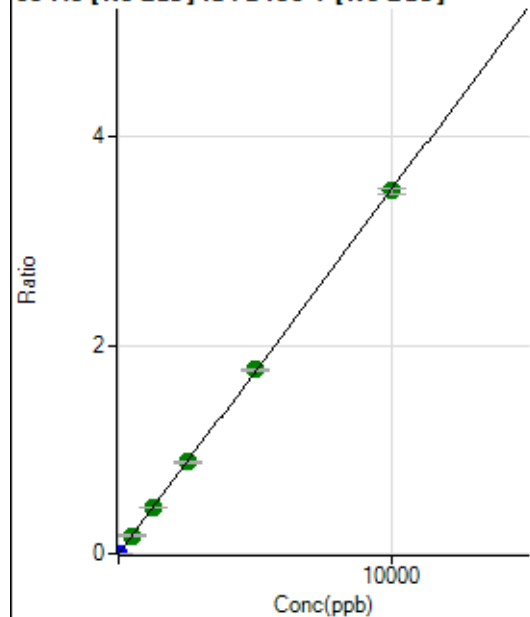
$$DL = 0.05824$$

$$BEC = 0.07778$$

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	162.23	0.0000	P	8.3
2	☐	5.000	4.350	14194.75	0.0015	P	1.3
3	☐	500.000	501.199	1612940.53	0.1751	A	3.9
4	☐	1250.000	1266.658	3973367.58	0.4425	A	1.9
5	☐	2500.000	2522.209	7743160.23	0.8811	A	1.7
6	☐	5000.000	5060.121	15278675.75	1.7676	A	0.8
7	☐	10000.000	9962.245	30063144.83	3.4801	A	1.8
8	☐			20033.82	0.0025	P	6.5

$$y = 3.4932\text{E-}004 * x + 1.7999\text{E-}005$$

$$R = 1.0000$$

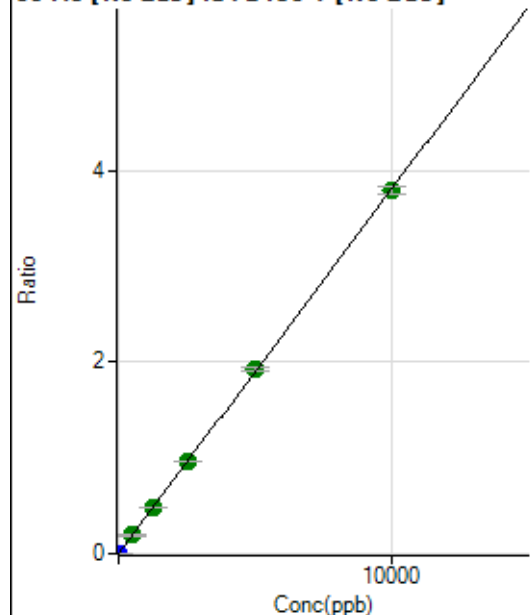
$$DL = 0.01286$$

$$BEC = 0.05152$$

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	100.00	0.0000	P	32.3
2	☐	5.000	4.462	15786.38	0.0017	P	2.8
3	☐	500.000	507.781	1780736.14	0.1933	A	3.9
4	☐	1250.000	1256.214	4294172.37	0.4782	A	2.3
5	☐	2500.000	2528.580	8459882.65	0.9626	A	0.2
6	☐	5000.000	5067.472	16674192.39	1.9292	A	2.1
7	☐	10000.000	9957.954	32747667.01	3.7909	A	2.2
8	☐			31595.29	0.0040	P	3.5

$$y = 3.8069\text{E-}004 * x + 1.1105\text{E-}005$$

$$R = 1.0000$$

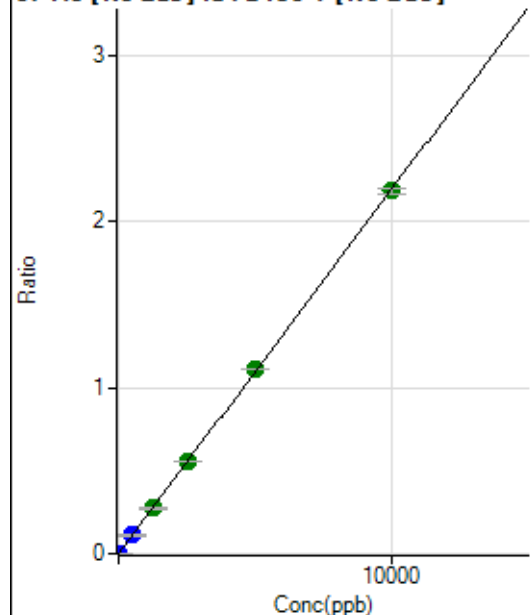
$$DL = 0.0283$$

$$BEC = 0.02917$$

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	53.34	0.0000	P	11.3
2	☐	5.000	4.303	8764.92	0.0009	P	1.1
3	☐	500.000	501.684	1013067.80	0.1100	P	3.5
4	☐	1250.000	1251.500	2463293.47	0.2743	A	1.9
5	☐	2500.000	2524.710	4863400.76	0.5534	A	1.1
6	☐	5000.000	5066.690	9599269.37	1.1106	A	0.6
7	☐	10000.000	9960.206	18859729.16	2.1832	A	1.9
8	☐			12529.93	0.0016	P	7.2

$$y = 2.1919\text{E-}004 * x + 5.9179\text{E-}006$$

$$R = 1.0000$$

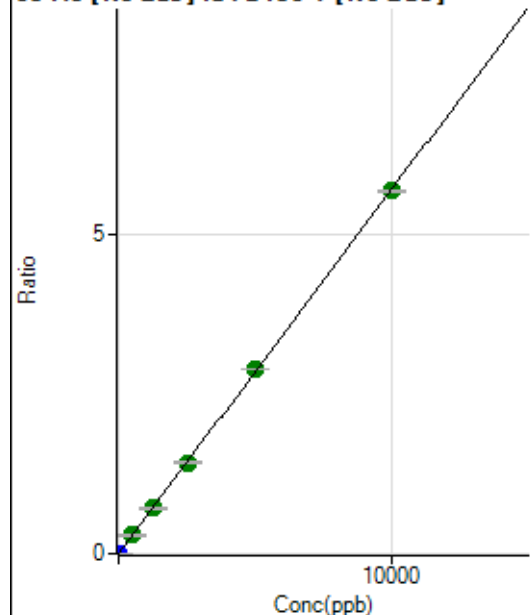
$$DL = 0.009125$$

$$BEC = 0.027$$

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	93.33	0.0000	P	11.9
2	☐	5.000	4.301	22720.00	0.0025	P	1.9
3	☐	500.000	505.171	2651357.44	0.2879	A	4.2
4	☐	1250.000	1248.042	6385441.50	0.7111	A	2.2
5	☐	2500.000	2505.618	12546701.34	1.4277	A	1.2
6	☐	5000.000	5066.440	24952108.79	2.8868	A	0.6
7	☐	10000.000	9965.362	49054645.38	5.6782	A	0.9
8	☐			32087.61	0.0041	P	6.9

$$y = 5.6979\text{E-}004 * x + 1.0348\text{E-}005$$

$$R = 1.0000$$

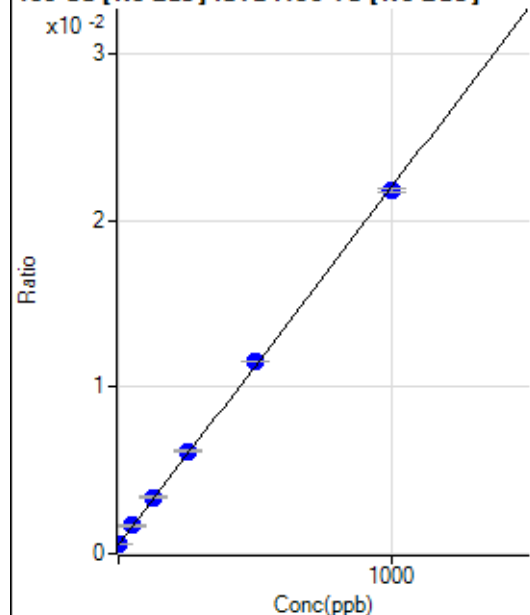
$$DL = 0.006495$$

$$BEC = 0.01816$$

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	3938.35	0.0005	P	3.5
2	☐	1.000	0.110	4053.94	0.0005	P	4.8
3	☐	50.000	54.549	12882.47	0.0017	P	4.6
4	☐	125.000	132.887	25309.92	0.0034	P	2.5
5	☐	250.000	262.374	45947.99	0.0062	P	1.5
6	☐	500.000	512.012	86628.30	0.0115	P	0.5
7	☐	1000.000	989.688	162711.72	0.0218	P	1.0
8	☐			3424.89	0.0005	P	3.0

$$y = 2.1481\text{E-}005 * x + 5.3312\text{E-}004$$

$$R = 0.9998$$

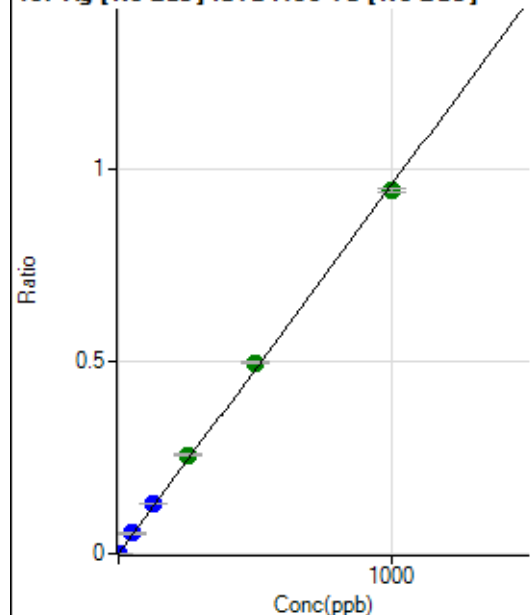
$$DL = 2.618$$

$$BEC = 24.82$$

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	104.44	0.0000	P	18.9
2	☐	1.000	0.965	7090.68	0.0009	P	3.2
3	☐	50.000	56.090	405198.74	0.0536	P	5.1
4	☐	125.000	136.157	972575.57	0.1302	P	1.4
5	☐	250.000	268.309	1910457.89	0.2565	A	2.3
6	☐	500.000	518.628	3724595.33	0.4958	A	0.9
7	☐	1000.000	984.410	7026422.81	0.9411	A	1.2
8	☐			4274.01	0.0006	P	5.9

$$y = 9.5594\text{E-}004 * x + 1.4154\text{E-}005$$

$$R = 0.9995$$

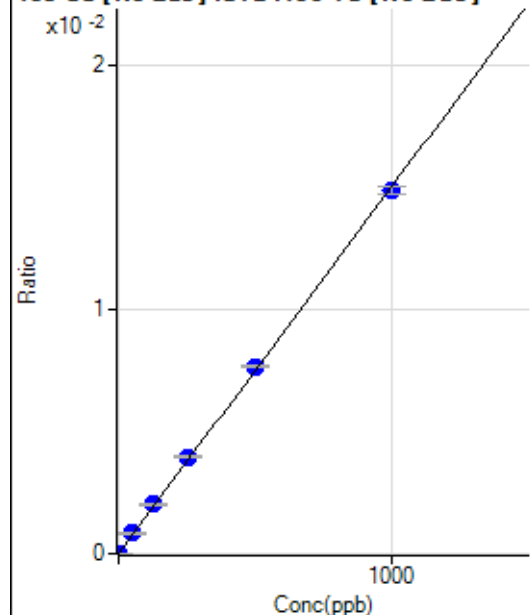
$$DL = 0.00838$$

$$BEC = 0.01481$$

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	8.89	0.0000	P	57.8
2	☐	1.000	0.935	115.56	0.0000	P	24.5
3	☐	50.000	55.123	6262.52	0.0008	P	5.1
4	☐	125.000	134.237	15069.03	0.0020	P	1.3
5	☐	250.000	264.084	29544.55	0.0040	P	0.8
6	☐	500.000	511.264	57680.61	0.0077	P	0.9
7	☐	1000.000	989.437	110932.11	0.0149	P	2.2
8	☐			127.78	0.0000	P	12.7

$$y = 1.5016\text{E-}005 * x + 1.2068\text{E-}006$$

$$R = 0.9998$$

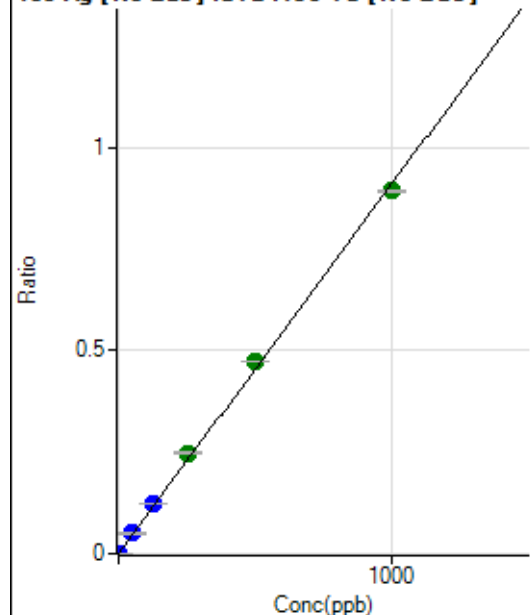
$$DL = 0.1394$$

$$BEC = 0.08037$$

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	54.44	0.0000	P	15.9
2	☐	1.000	0.958	6649.37	0.0009	P	3.1
3	☐	50.000	55.647	382522.11	0.0506	P	4.6
4	☐	125.000	136.528	927870.44	0.1242	P	1.3
5	☐	250.000	271.105	1836655.32	0.2466	A	2.1
6	☐	500.000	521.482	3563295.05	0.4743	A	0.6
7	☐	1000.000	982.259	6671125.87	0.8934	A	0.7
8	☐			4071.72	0.0006	P	2.0

$$y = 9.0956\text{E-}004 * x + 7.3747\text{E-}006$$

$$R = 0.9994$$

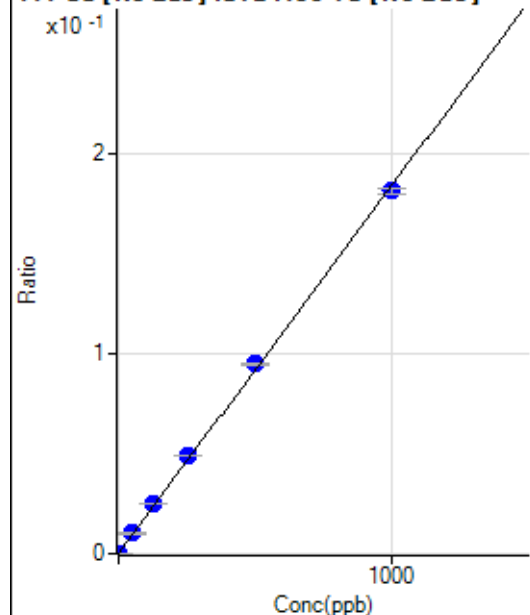
$$DL = 0.003878$$

$$BEC = 0.008108$$

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	788.12	0.0001	P	3.1
2	☐	1.000	1.017	2222.21	0.0003	P	2.1
3	☐	50.000	55.345	77650.24	0.0103	P	4.9
4	☐	125.000	135.293	186550.74	0.0250	P	1.3
5	☐	250.000	266.058	364952.95	0.0490	P	1.1
6	☐	500.000	515.722	712745.82	0.0949	P	1.1
7	☐	1000.000	986.570	1354384.60	0.1814	P	1.7
8	☐			1980.06	0.0003	P	5.1

$$y = 1.8376\text{E-}004 * x + 1.0668\text{E-}004$$

$$R = 0.9997$$

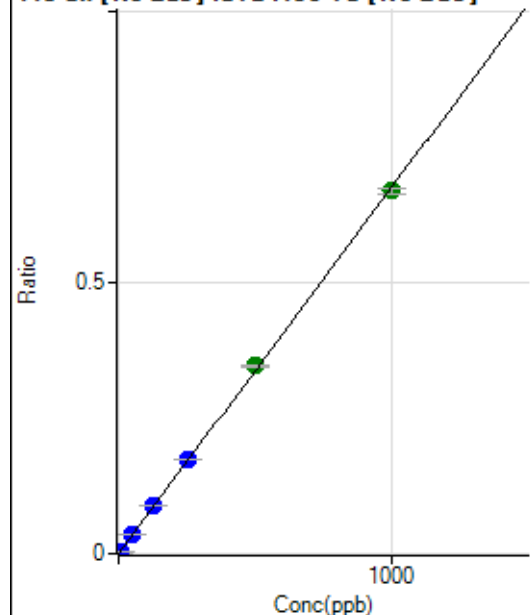
$$DL = 0.0547$$

$$BEC = 0.5806$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	307.78	0.0000	P	13.4
2	☐	5.000	4.696	24347.33	0.0032	P	1.4
3	☐	50.000	53.223	272114.76	0.0360	P	4.9
4	☐	125.000	130.002	656799.84	0.0879	P	1.7
5	☐	250.000	257.813	1298197.98	0.1743	P	1.6
6	☐	500.000	512.519	2602670.83	0.3465	A	1.7
7	☐	1000.000	991.002	5001426.14	0.6699	A	1.5
8	☐			7838.86	0.0011	P	2.3

$$y = 6.7590E-004 * x + 4.1684E-005$$

$$R = 0.9998$$

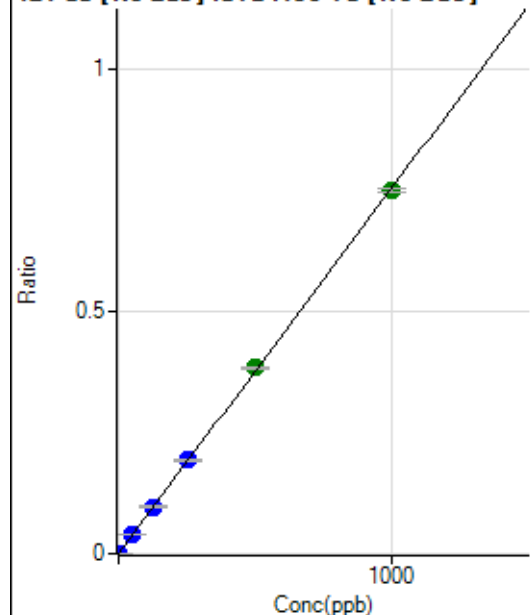
$$DL = 0.02473$$

$$BEC = 0.06167$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	50.00	0.0000	P	5.9
2	☐	2.000	1.870	10736.31	0.0014	P	1.6
3	☐	50.000	51.677	294701.89	0.0390	P	4.5
4	☐	125.000	128.557	724789.81	0.0970	P	1.4
5	☐	250.000	255.669	1436894.89	0.1929	P	1.4
6	☐	500.000	509.277	2886871.62	0.3843	A	1.2
7	☐	1000.000	993.416	5596787.00	0.7496	A	0.9
8	☐			4960.90	0.0007	P	1.9

$$y = 7.5455E-004 * x + 6.7672E-006$$

$$R = 0.9999$$

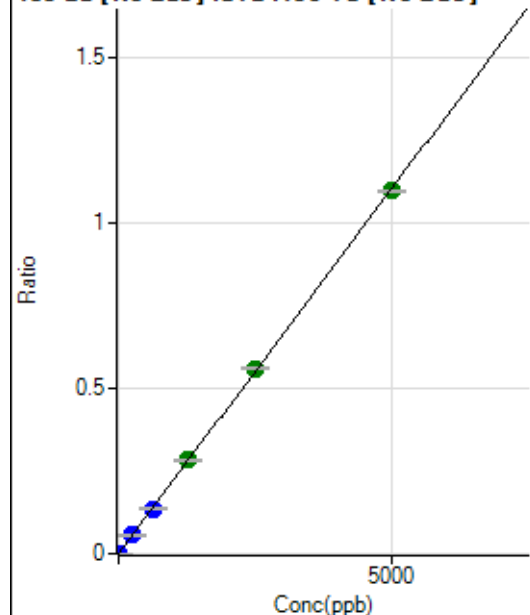
$$DL = 0.001578$$

$$BEC = 0.008969$$

Weight: <None>

Min Conc: 0

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	38.89	0.0000	P	19.8
2	☐	10.000	8.886	14860.07	0.0020	P	1.8
3	☐	250.000	250.487	417004.11	0.0552	P	4.4
4	☐	625.000	618.432	1017899.92	0.1362	P	1.0
5	☐	1250.000	1284.569	2107473.06	0.2830	A	2.3
6	☐	2500.000	2536.254	4197079.83	0.5587	A	1.1
7	☐	5000.000	4974.030	8181191.20	1.0957	A	0.5
8	☐			8723.85	0.0013	P	1.9

$$y = 2.2028\text{E-}004 * x + 5.2648\text{E-}006$$

$$R = 0.9999$$

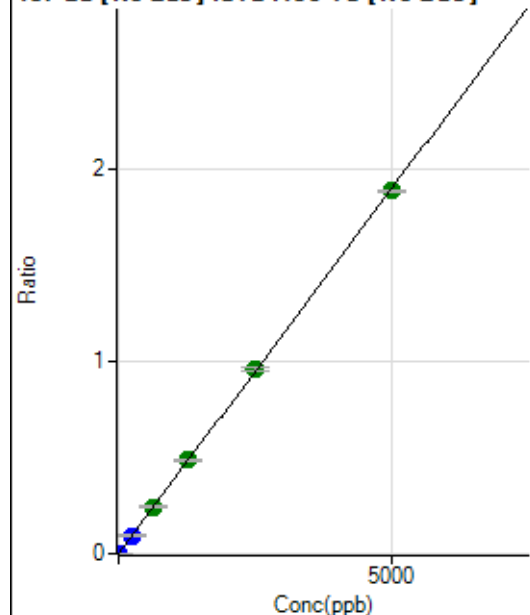
$$DL = 0.0142$$

$$BEC = 0.0239$$

Weight: <None>

Min Conc: 0

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	68.89	0.0000	P	14.0
2	☐	10.000	8.977	25915.94	0.0034	P	1.1
3	☐	250.000	250.328	719415.22	0.0952	P	4.5
4	☐	625.000	640.714	1820314.38	0.2437	A	2.9
5	☐	1250.000	1282.728	3633133.59	0.4878	A	1.9
6	☐	2500.000	2533.461	7237573.22	0.9634	A	1.4
7	☐	5000.000	4973.109	14121012.01	1.8912	A	0.5
8	☐			14817.85	0.0022	P	3.2

$$y = 3.8028\text{E-}004 * x + 9.3268\text{E-}006$$

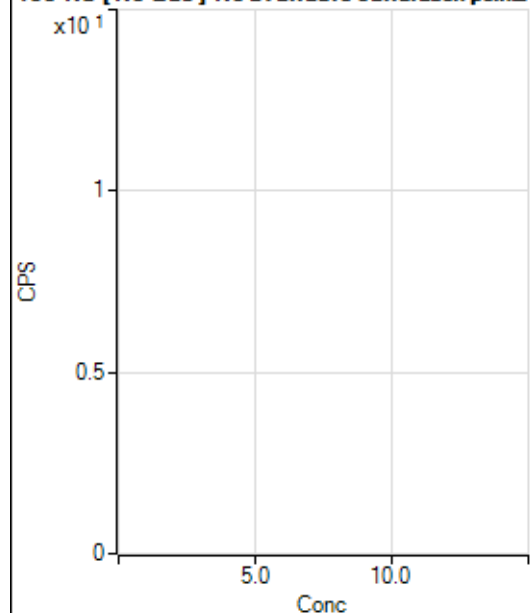
$$R = 0.9999$$

$$DL = 0.0103$$

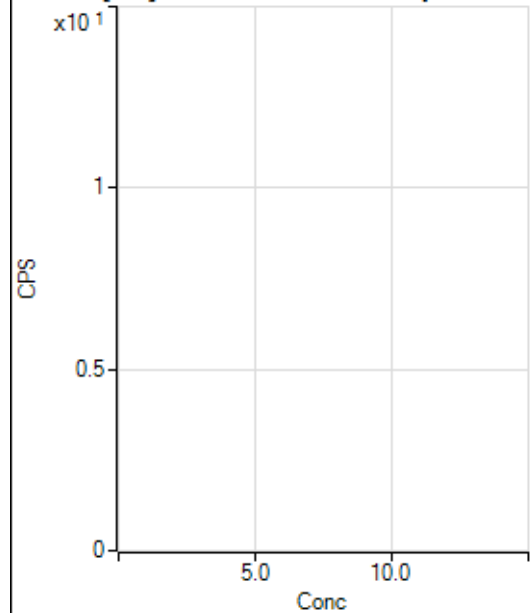
$$BEC = 0.02453$$

Weight: <None>

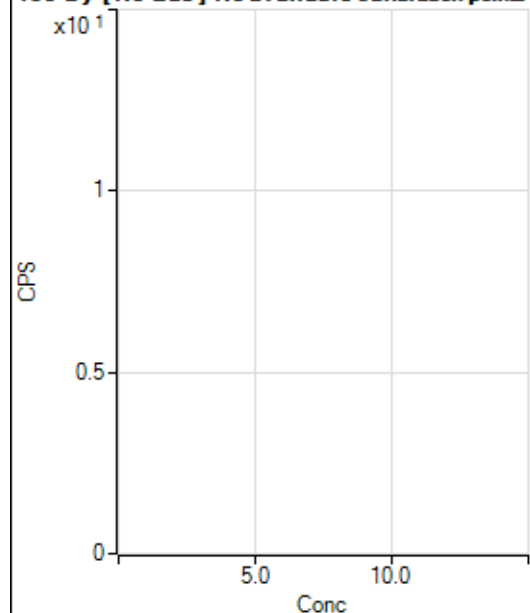
Min Conc: 0

150 Nd [No Gas] No available calibration points

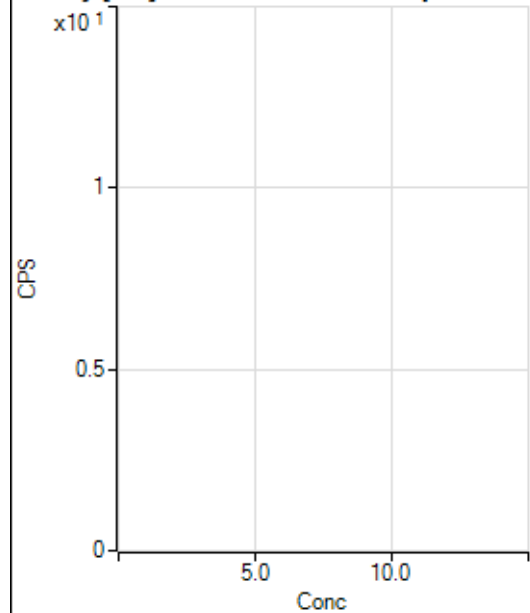
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			5.56		P	91.6
2	☐			8.89		P	114.
3	☐			55.56		P	15.1
4	☐			131.11		P	16.3
5	☐			272.23		P	7.4
6	☐			567.79		P	3.2
7	☐			1125.61		P	10.5
8	☐			287.78		P	0.7

150 Nd [He] No available calibration points

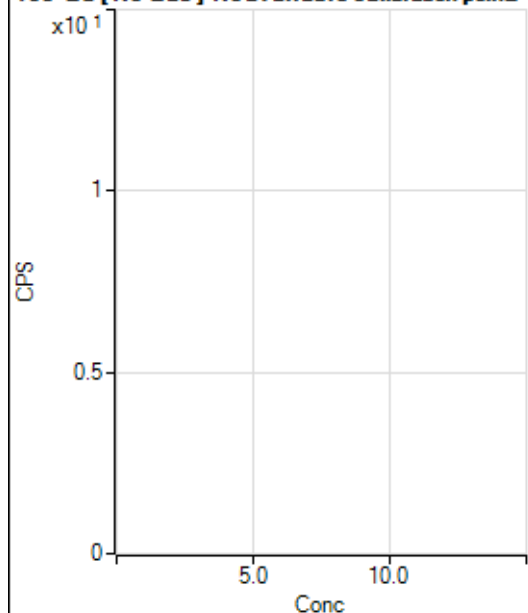
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			4.44		P	173.
2	☐			2.22		P	86.6
3	☐			20.00		P	76.4
4	☐			35.56		P	43.3
5	☐			74.44		P	20.2
6	☐			120.00		P	24.7
7	☐			215.56		P	11.4
8	☐			171.11		P	22.6

156 Dy [No Gas] No available calibration points

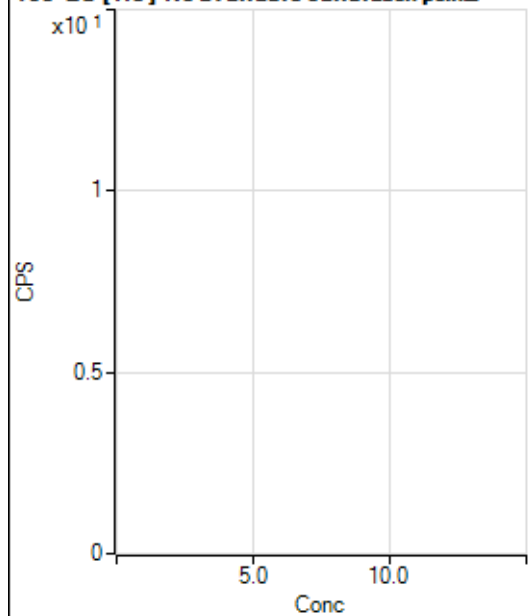
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			7.78		P	65.5
2	☐			11.11		P	34.6
3	☐			38.89		P	13.1
4	☐			78.89		P	16.0
5	☐			131.11		P	14.5
6	☐			264.45		P	23.3
7	☐			480.01		P	9.0
8	☐			1737.91		P	9.3

156 Dy [He] No available calibration points

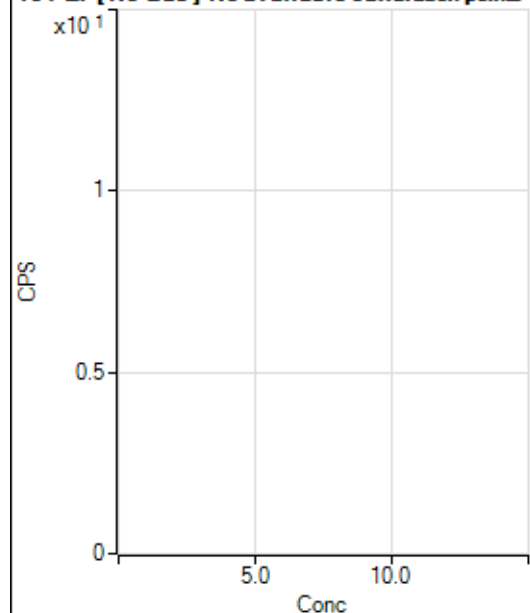
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			3.33		P	100.
2	☐			7.78		P	65.5
3	☐			24.44		P	34.3
4	☐			63.33		P	27.9
5	☐			167.78		P	24.0
6	☐			198.89		P	14.1
7	☐			473.35		P	7.5
8	☐			1152.28		P	3.2

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

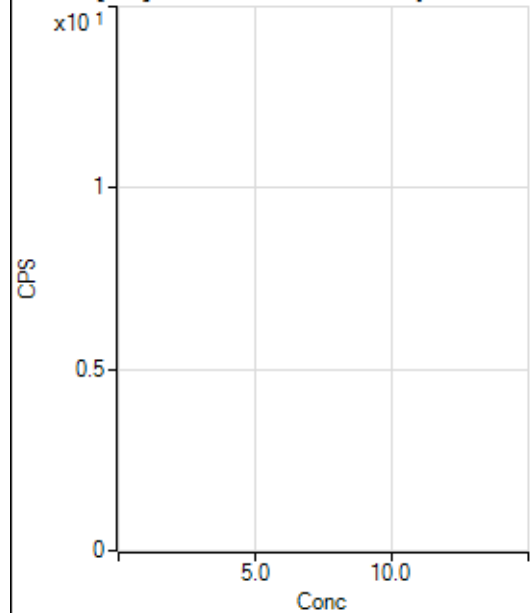
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			37.78		P	10.2
2	☐			43.33		P	27.7
3	☐			51.11		P	22.9
4	☐			87.78		P	18.7
5	☐			111.11		P	11.4
6	☐			213.34		P	6.8
7	☐			363.34		P	14.4
8	☐			1775.69		P	6.0

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			177.78		P	2.9
2	☐			210.01		P	17.7
3	☐			200.01		P	15.9
4	☐			220.00		P	18.6
5	☐			246.67		P	5.9
6	☐			333.34		P	7.8
7	☐			437.79		P	5.8
8	☐			1471.20		P	6.4

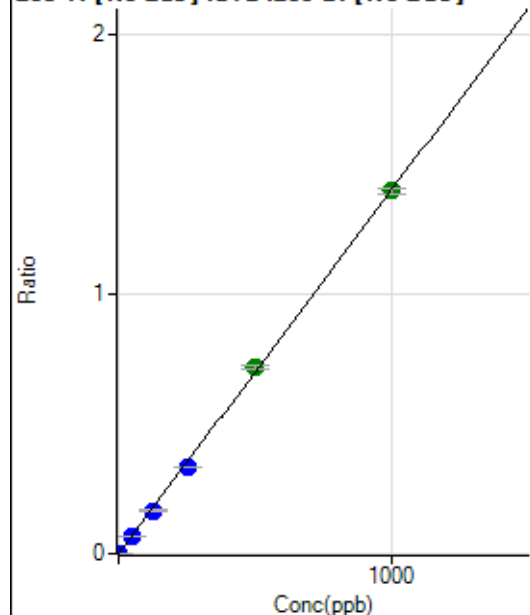
164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			70.00		P	16.5
2	☐			42.22		P	27.7
3	☐			64.44		P	3.0
4	☐			76.67		P	26.4
5	☐			103.33		P	14.1
6	☐			92.22		P	16.3
7	☐			180.00		P	0.0
8	☐			265.56		P	12.2

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			38.89		P	62.0
2	☐			43.33		P	40.7
3	☐			36.67		P	9.1
4	☐			45.55		P	36.8
5	☐			47.78		P	35.1
6	☐			71.11		P	7.2
7	☐			127.78		P	5.4
8	☐			170.00		P	5.2

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	88.89	0.0000	P	25.6
2	☐	1.000	0.802	4540.80	0.0011	P	3.7
3	☐	50.000	46.699	260035.63	0.0655	P	3.5
4	☐	125.000	118.917	651213.01	0.1667	P	1.2
5	☐	250.000	237.786	1306883.44	0.3333	P	0.4
6	☐	500.000	512.081	2790094.58	0.7178	A	1.6
7	☐	1000.000	997.939	5372354.78	1.3989	A	1.9
8	☐			3169.29	0.0010	P	7.3

$$y = 0.0014 * x + 2.2909E-005$$

$$R = 0.9998$$

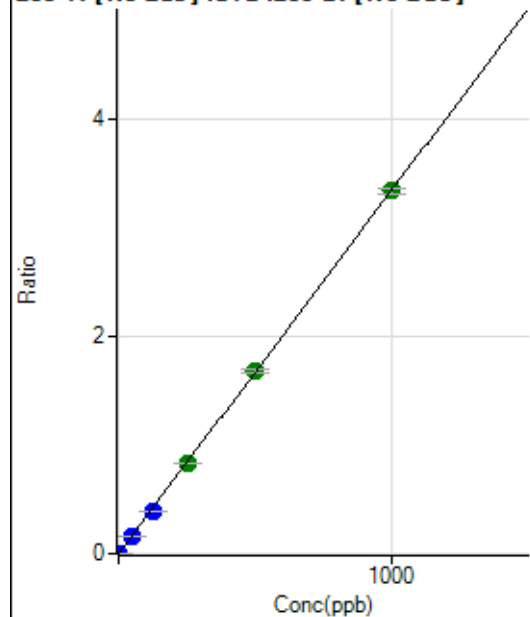
$$DL = 0.01257$$

$$BEC = 0.01634$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	215.56	0.0001	P	6.1
2	☐	1.000	0.792	10712.08	0.0027	P	3.4
3	☐	50.000	46.068	612155.73	0.1541	P	2.9
4	☐	125.000	117.248	1531911.99	0.3922	P	1.2
5	☐	250.000	248.793	3262106.76	0.8321	A	1.4
6	☐	500.000	505.111	6566095.46	1.6894	A	2.1
7	☐	1000.000	998.912	12830131.76	3.3408	A	1.9
8	☐			7727.83	0.0024	P	8.2

$$y = 0.0033 * x + 5.5538E-005$$

$$R = 0.9999$$

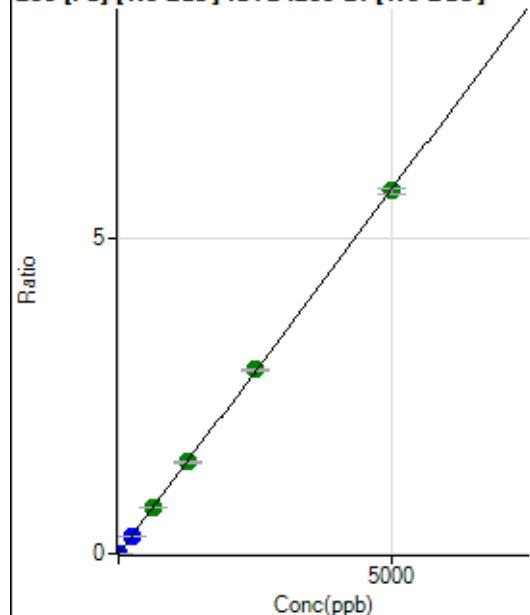
$$DL = 0.003057$$

$$BEC = 0.01661$$

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	226.67	0.0001	P	20.8
2	☐	1.000	0.829	4031.75	0.0010	P	2.5
3	☐	250.000	231.477	1063878.25	0.2679	P	3.0
4	☐	625.000	629.266	2844043.81	0.7281	A	1.0
5	☐	1250.000	1259.760	5714018.73	1.4575	A	1.6
6	☐	2500.000	2532.417	11388390.11	2.9300	A	1.2
7	☐	5000.000	4981.744	22135000.50	5.7637	A	1.9
8	☐			19904.68	0.0063	P	5.9

$$y = 0.0012 * x + 5.8399E-005$$

$$R = 1.0000$$

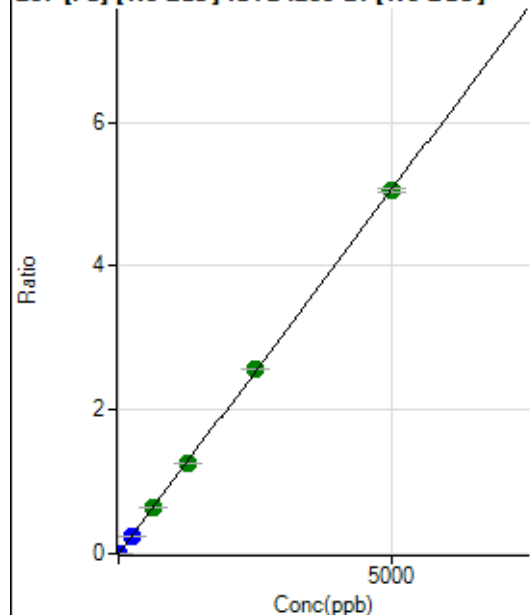
$$DL = 0.03146$$

$$BEC = 0.05048$$

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	203.34	0.0001	P	6.5
2	☐	1.000	0.816	3479.37	0.0009	P	4.4
3	☐	250.000	230.873	928307.20	0.2338	P	3.6
4	☐	625.000	626.680	2478189.44	0.6344	A	1.4
5	☐	1250.000	1245.188	4942247.11	1.2606	A	0.5
6	☐	2500.000	2534.848	9974148.12	2.5661	A	0.3
7	☐	5000.000	4984.525	19380494.02	5.0459	A	1.0
8	☐			17125.35	0.0054	P	4.2

$$y = 0.0010 * x + 5.2389E-005$$

$$R = 1.0000$$

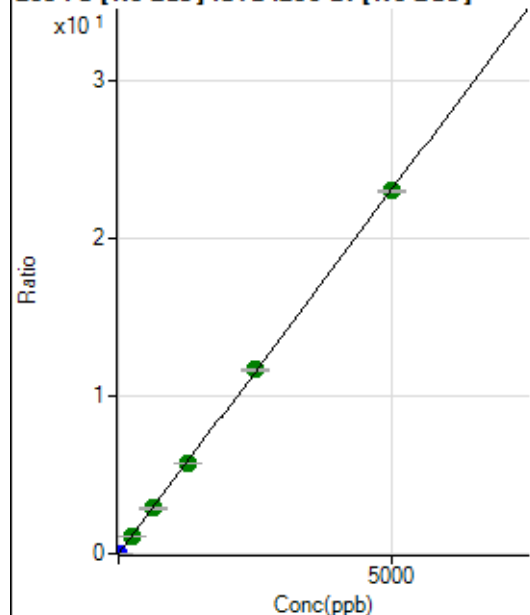
$$DL = 0.01008$$

$$BEC = 0.05175$$

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	984.47	0.0003	P	6.4
2	☐	1.000	0.805	15715.89	0.0040	P	3.5
3	☐	250.000	240.306	4406492.79	1.1096	A	3.7
4	☐	625.000	625.133	11273585.81	2.8862	A	1.5
5	☐	1250.000	1244.583	22527366.09	5.7459	A	0.6
6	☐	2500.000	2529.453	45388717.31	11.6776	A	1.1
7	☐	5000.000	4987.096	88431889.93	23.0234	A	0.7
8	☐			79042.63	0.0248	P	3.9

$$y = 0.0046 * x + 2.5368E-004$$

$$R = 1.0000$$

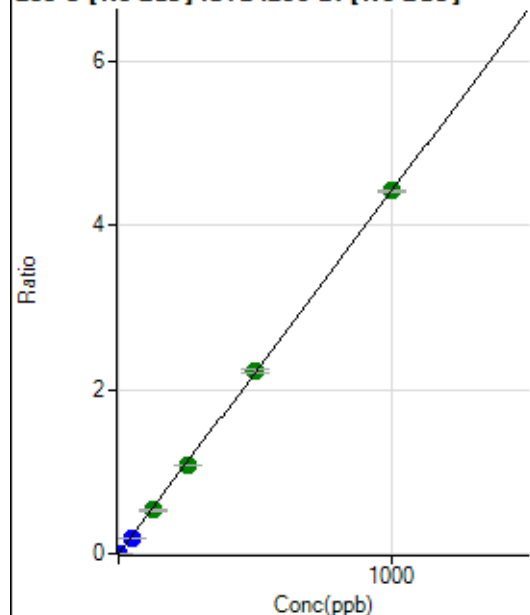
$$DL = 0.01047$$

$$BEC = 0.05495$$

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	92.22	0.0000	P	35.4
2	☐	1.000	0.772	13613.71	0.0034	P	2.1
3	☐	50.000	43.630	766238.63	0.1929	P	3.4
4	☐	125.000	119.955	2071853.56	0.5304	A	2.1
5	☐	250.000	245.570	4257433.06	1.0859	A	0.2
6	☐	500.000	503.262	8649363.13	2.2253	A	1.7
7	☐	1000.000	1000.426	16992061.41	4.4237	A	0.5
8	☐			12564.93	0.0039	P	4.2

$$y = 0.0044 * x + 2.3748E-005$$

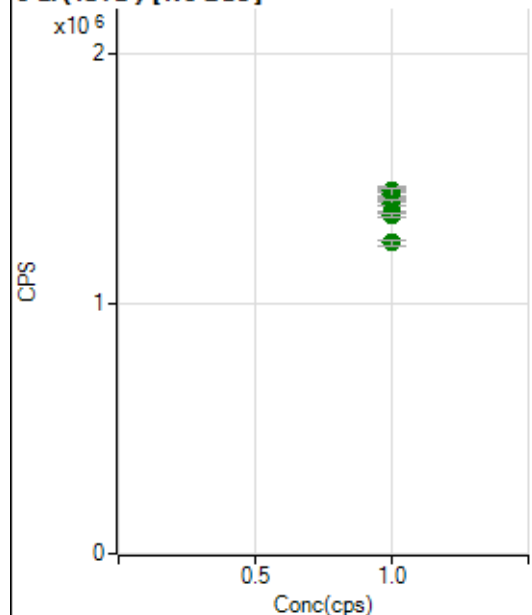
$$R = 1.0000$$

$$DL = 0.005703$$

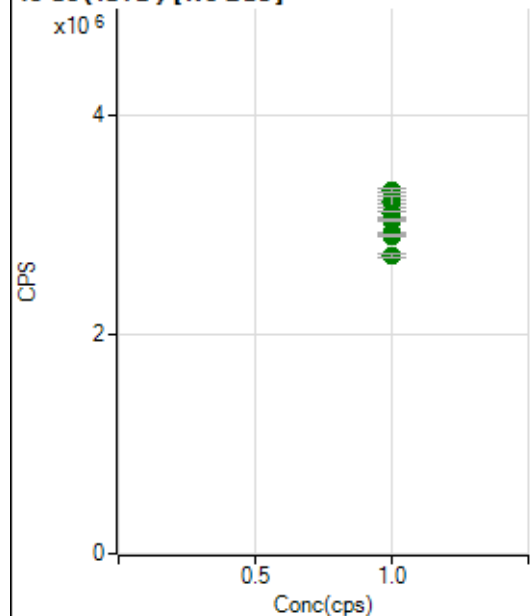
$$BEC = 0.005371$$

Weight: <None>

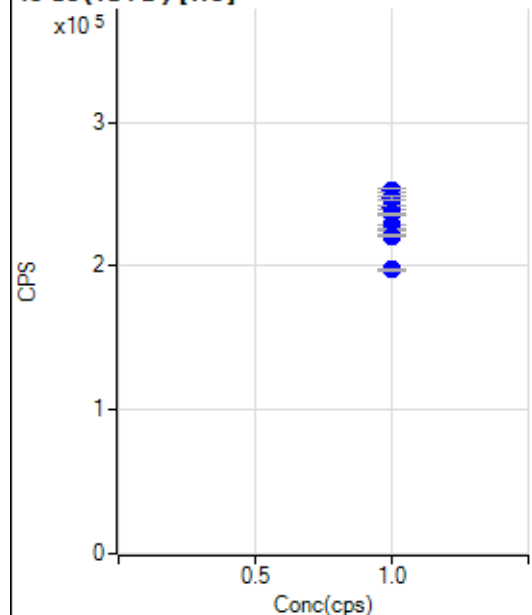
Min Conc: 0

6 Li (ISTD) [No Gas]

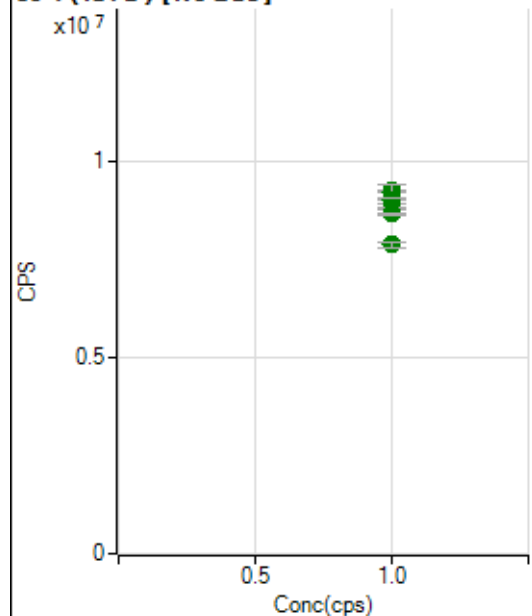
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1425836.94		A	2.4
2	☐	1.000		1450371.26		A	0.4
3	☐	1.000		1451889.82		A	2.4
4	☐	1.000		1442779.35		A	2.3
5	☐	1.000		1401912.60		A	1.7
6	☐	1.000		1367602.77		A	0.2
7	☐	1.000		1351299.66		A	1.0
8	☐	1.000		1243943.54		A	2.1

45 Sc (ISTD) [No Gas]

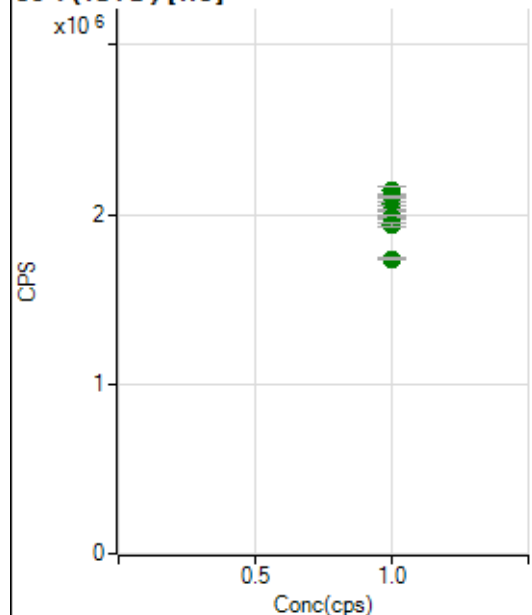
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3206646.03		A	0.9
2	☐	1.000		3304599.19		A	0.9
3	☐	1.000		3208799.54		A	3.3
4	☐	1.000		3093450.34		A	1.7
5	☐	1.000		3036913.15		A	1.0
6	☐	1.000		2917882.87		A	1.0
7	☐	1.000		2898492.21		A	0.7
8	☐	1.000		2713783.02		A	1.3

45 Sc (ISTD) [He]

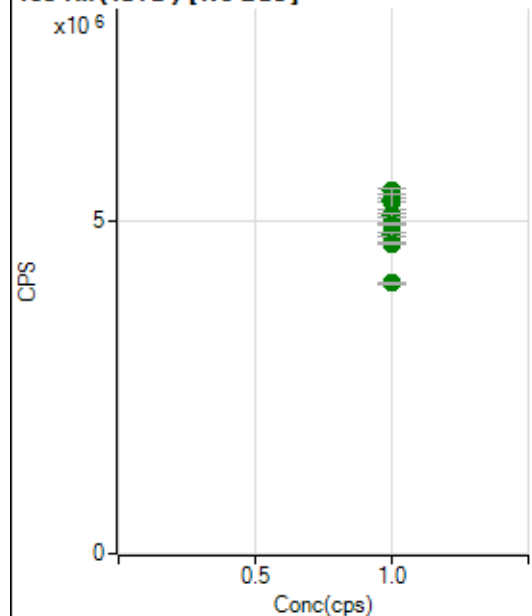
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		252296.24		P	1.2
2	☐	1.000		240842.99		P	0.8
3	☐	1.000		247570.60		P	1.0
4	☐	1.000		236070.88		P	0.8
5	☐	1.000		228270.92		P	0.2
6	☐	1.000		225800.33		P	0.8
7	☐	1.000		221060.59		P	0.6
8	☐	1.000		197284.57		P	0.4

89 Y (ISTD) [No Gas]

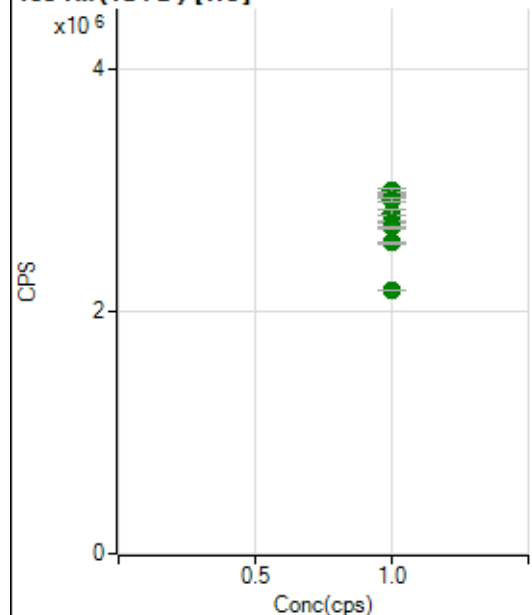
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		9015978.61		A	0.6
2	☐	1.000		9233577.57		A	0.8
3	☐	1.000		9220019.79		A	3.7
4	☐	1.000		8981880.21		A	2.0
5	☐	1.000		8788391.75		A	0.3
6	☐	1.000		8643602.86		A	0.3
7	☐	1.000		8639608.90		A	1.0
8	☐	1.000		7875137.38		A	1.8

89 Y(ISTD) [He]

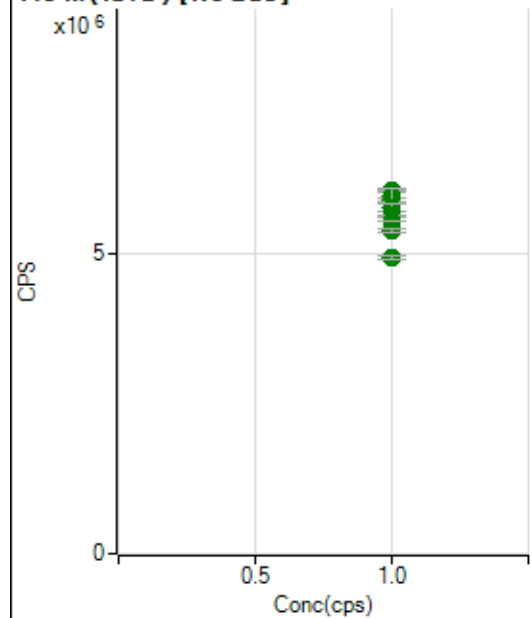
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2137909.12		A	2.0
2	☐	1.000		2062282.83		A	1.0
3	☐	1.000		2103716.41		A	0.6
4	☐	1.000		2022567.37		A	0.7
5	☐	1.000		1983002.42		A	0.9
6	☐	1.000		1985892.14		A	0.3
7	☐	1.000		1939602.70		A	1.2
8	☐	1.000		1737793.85		A	0.6

103 Rh(ISTD) [No Gas]

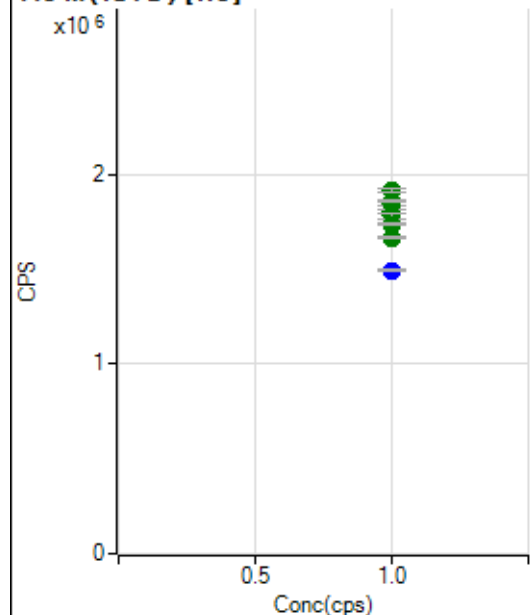
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5324989.33		A	1.3
2	☐	1.000		5454079.64		A	1.8
3	☐	1.000		5282466.03		A	4.4
4	☐	1.000		5090728.47		A	1.1
5	☐	1.000		4956760.72		A	0.9
6	☐	1.000		4799317.64		A	1.1
7	☐	1.000		4668315.11		A	0.7
8	☐	1.000		4062673.38		A	1.2

103 Rh (ISTD) [He]

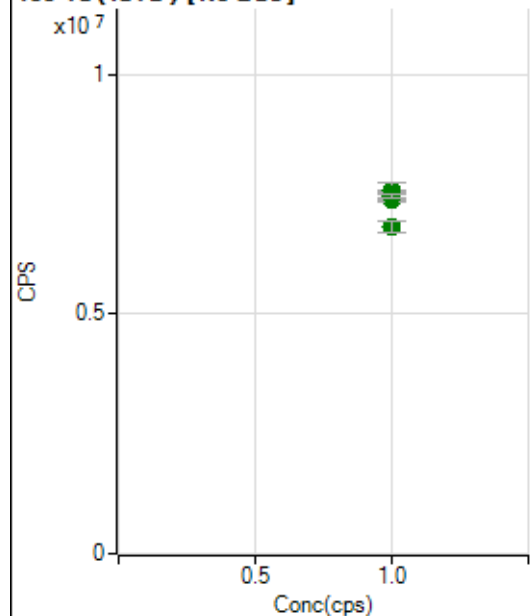
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2961660.30		A	0.4
2	☐	1.000		2992820.23		A	0.9
3	☐	1.000		2920435.41		A	1.1
4	☐	1.000		2810709.02		A	1.8
5	☐	1.000		2735323.92		A	0.3
6	☐	1.000		2690297.60		A	0.7
7	☐	1.000		2568710.76		A	0.6
8	☐	1.000		2175978.89		A	0.4

115 In (ISTD) [No Gas]

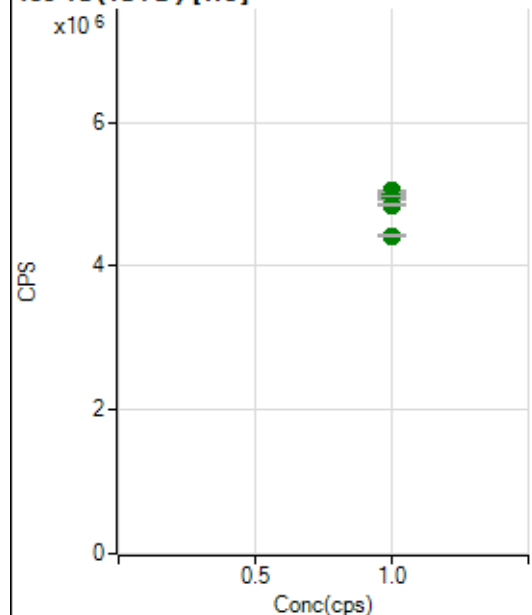
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5888917.51		A	1.3
2	☐	1.000		6036049.89		A	0.8
3	☐	1.000		5959080.33		A	4.2
4	☐	1.000		5755017.41		A	1.8
5	☐	1.000		5620560.25		A	0.6
6	☐	1.000		5540835.08		A	0.2
7	☐	1.000		5376626.32		A	1.2
8	☐	1.000		4930891.33		A	1.6

115 In (ISTD) [He]

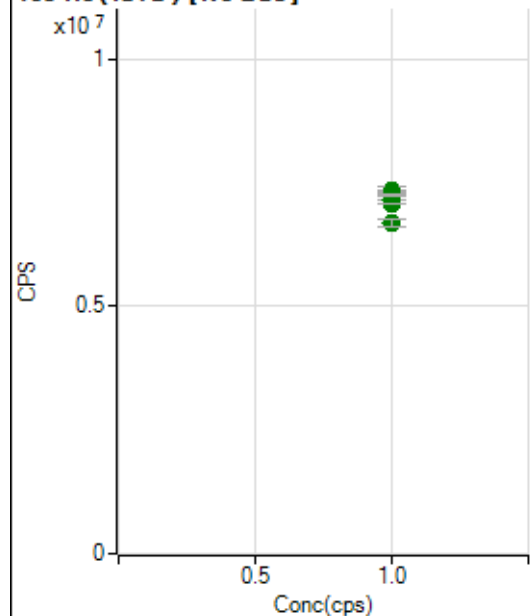
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1913972.35		A	1.0
2	☐	1.000		1842010.47		A	1.0
3	☐	1.000		1860577.43		A	0.7
4	☐	1.000		1807505.21		A	1.0
5	☐	1.000		1780782.43		A	1.7
6	☐	1.000		1738543.66		A	0.5
7	☐	1.000		1667051.06		A	0.5
8	☐	1.000		1492699.42		P	0.7

159 Tb (ISTD) [No Gas]

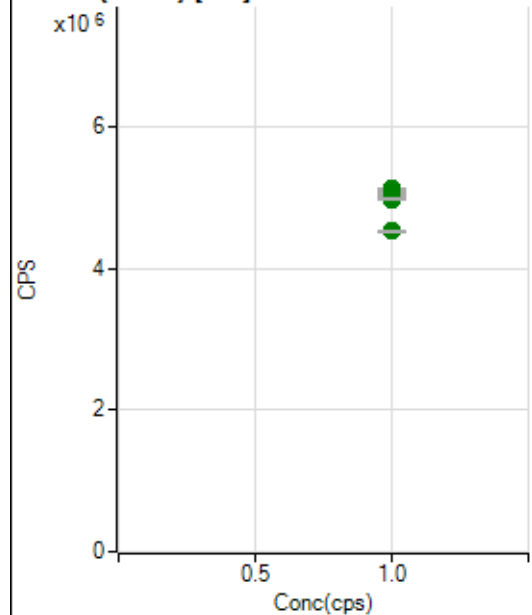
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7386289.68		A	0.8
2	☐	1.000		7571455.86		A	0.6
3	☐	1.000		7567387.53		A	4.8
4	☐	1.000		7472119.26		A	1.0
5	☐	1.000		7448735.65		A	1.0
6	☐	1.000		7512333.29		A	0.2
7	☐	1.000		7466849.19		A	0.7
8	☐	1.000		6821045.59		A	3.0

159 Tb (ISTD) [He]

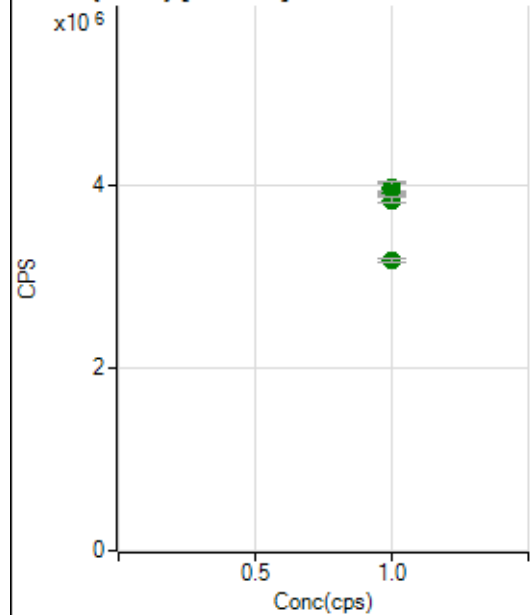
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5044297.04		A	0.4
2	☐	1.000		5026947.04		A	0.8
3	☐	1.000		5038282.18		A	0.7
4	☐	1.000		4993423.92		A	1.4
5	☐	1.000		4946381.21		A	0.9
6	☐	1.000		4939233.40		A	0.9
7	☐	1.000		4845623.88		A	0.6
8	☐	1.000		4417314.21		A	0.6

165 Ho (ISTD) [No Gas]

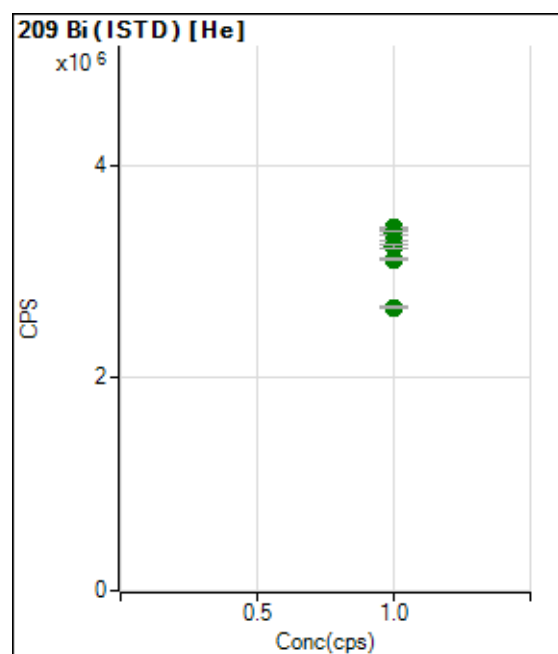
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7077767.74		A	0.5
2	☐	1.000		7336636.90		A	0.2
3	☐	1.000		7295028.78		A	3.4
4	☐	1.000		7159636.91		A	1.8
5	☐	1.000		7283775.24		A	0.3
6	☐	1.000		7298688.85		A	0.9
7	☐	1.000		7258268.85		A	0.8
8	☐	1.000		6676993.44		A	2.5

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5090265.69		A	0.3
2	☐	1.000		5064397.22		A	1.2
3	☐	1.000		5116718.85		A	0.3
4	☐	1.000		5066036.66		A	0.6
5	☐	1.000		5057756.98		A	0.4
6	☐	1.000		5006102.56		A	0.8
7	☐	1.000		4966889.96		A	0.7
8	☐	1.000		4521019.10		A	0.6

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3881195.12		A	0.4
2	☐	1.000		3961494.77		A	2.6
3	☐	1.000		3974536.95		A	3.8
4	☐	1.000		3906370.71		A	0.9
5	☐	1.000		3920647.72		A	1.2
6	☐	1.000		3886911.51		A	0.4
7	☐	1.000		3841256.92		A	1.8
8	☐	1.000		3181072.52		A	1.9



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3409955.99		A	0.2
2	☐	1.000		3413230.37		A	0.4
3	☐	1.000		3413383.04		A	0.3
4	☐	1.000		3363989.18		A	1.1
5	☐	1.000		3291674.43		A	0.4
6	☐	1.000		3232471.24		A	1.2
7	☐	1.000		3114911.17		A	0.7
8	☐	1.000		2661506.04		A	0.7

US EPA Tune Check Report

Operator Name Jaswal

Acq/Data Batch D:\Agilent\ICPMH\1\DATA\IP7103023-MS2.b

Acq. Date-Time 2023-10-30 10:08:09

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		8092	80917.14			0.206	5.000
24		44921	449208.28			1.000	5.000
25		5786	57861.18			0.881	5.000
26		6756	67555.92			0.628	5.000
59		56285	562850.75			0.266	5.000
113		8470	84697.55			0.277	5.000
115		102912	1029115.36			0.752	5.000
206		19739	197394.12			0.446	5.000
207		17518	175179.51			0.580	5.000
208		41751	417510.82			0.672	5.000
220		0	3.20			23.697	

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

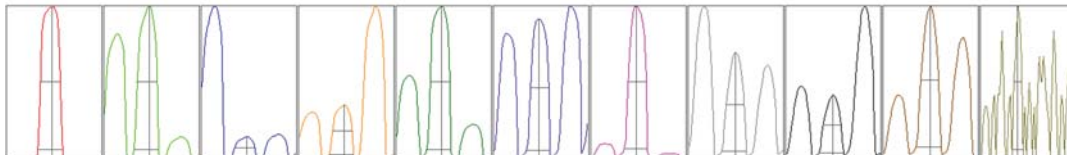
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	8106	8097	8094	8063	8098
24	44338	44572	45097	45179	45418
25	5709	5791	5793	5786	5852
26	6689	6742	6797	6781	6770
59	56053	56416	56219	56363	56375
113	8450	8510	8459	8461	8470
115	101635	102730	103341	103332	103520
206	19624	19679	19756	19844	19793
207	17356	17571	17484	17606	17574
208	41315	41787	41756	41797	42099

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	13085.16	8.95	8.90 - 9.10	
24	74742.43	23.95	23.90 - 24.10	
25	9631.85	24.95	24.90 - 25.10	
26	11117.73	25.95	25.90 - 26.10	
59	93037.90	58.95	58.90 - 59.10	
113	15215.63	112.95	112.90 - 113.10	
115	188454.60	114.95	114.90 - 115.10	
206	36535.66	206.00	205.90 - 206.10	
207	32206.35	207.00	206.90 - 207.10	
208	77520.88	208.00	207.90 - 208.10	
220	0.60	219.70	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.63	0.783	0.900	
24	0.64	0.781	0.900	
25	0.63	0.777	0.900	
26	0.63	0.771	0.900	
59	0.62	0.763	0.900	
113	0.56	0.746	0.900	
115	0.56	0.744	0.900	
206	0.56	0.786	0.900	
207	0.56	0.781	0.900	
208	0.55	0.805	0.900	
220	0.26	0.341		

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	8.4 V	Deflect	15.0 V
Extract 2	-105.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-60 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	---	OctP RF	160 V		

QP Parameters

Mass Gain	132	Axis Gain	0.9973	QP Bias	-3.0 V
Mass Offset	130	Axis Offset	0.11		

Hardware Settings

Torch

Torch H	-1.0 mm	Torch V	0.8 mm
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EM

Discriminator	4.6 mV	Analog HV	2296 V	Pulse HV	1351 V
---------------	--------	-----------	--------	----------	--------

[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		17425	174246.19			0.441	
89		26360	263604.74			0.489	
205		24580	245798.36			0.615	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	17464	17472	17500	17320	17367
89	26445	26365	26525	26237	26230
205	24611	24650	24777	24461	24400

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	8.9 V	Deflect	2.2 V
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US EPA Tune Check Report

Extract 2	-105.0 V	Cell Entrance	-40 V	Plate Bias	-60 V
Omega Bias	-55 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	132	Axis Gain	0.9973	QP Bias	-13.0 V
Mass Offset	130	Axis Offset	0.11		

Hardware Settings

Torch

Torch H	-1.0 mm	Torch V	0.8 mm
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EM

Discriminator	4.6 mV	Analog HV	2296 V	Pulse HV	1351 V
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