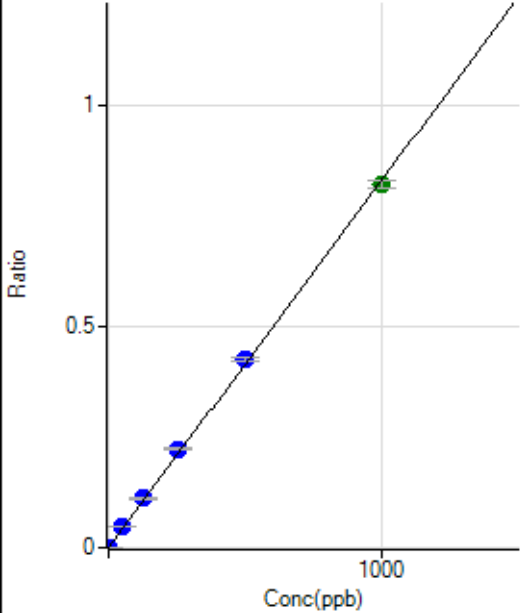


Calibration for 004CALB.d

Batch Folder: D:\Agilent\ICPMH\1\DATA\P7081424MS1.b\
 Analysis File: P7081424MS1.batch.bin
 DA Date-Time: 2024-08-14 18:39:35
 Calibration Title:
 Calibration Method: External Calibration
 VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.d	S00	2024-08-14 14:56:51
2	005CALS.d	S02	2024-08-14 15:00:07
3	006CALS.d	S03	2024-08-14 15:03:26
4	007CALS.d	S04	2024-08-14 15:06:30
5	008CALS.d	S05	2024-08-14 15:09:27
6	009CALS.d	S06	2024-08-14 15:12:15
7	010CALS.d	S07	2024-08-14 15:15:02
8	011CALS.d	S08	2024-08-14 15:17:47

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	25.56	0.0000	P	19.7
2	☐	1.000	1.056	1467.86	0.0009	P	4.8
3	☐	50.000	55.367	78903.33	0.0460	P	0.3
4	☐	125.000	134.059	199881.85	0.1115	P	1.4
5	☐	250.000	268.022	409891.30	0.2228	P	1.3
6	☐	500.000	511.618	808477.04	0.4254	P	1.8
7	☐	1000.000	988.285	1514832.55	0.8217	A	2.0
8	☐			147.78	0.0001	P	25.3

$y = 8.3138E-004 * x + 1.5090E-005$

$R = 0.9997$

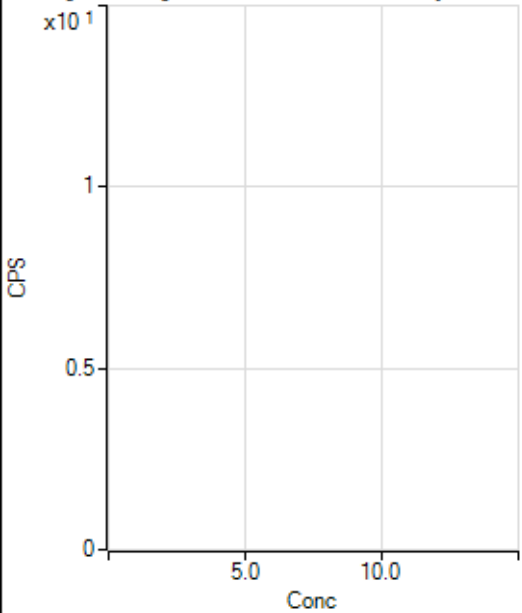
$DL = 0.01074$

$BEC = 0.01815$

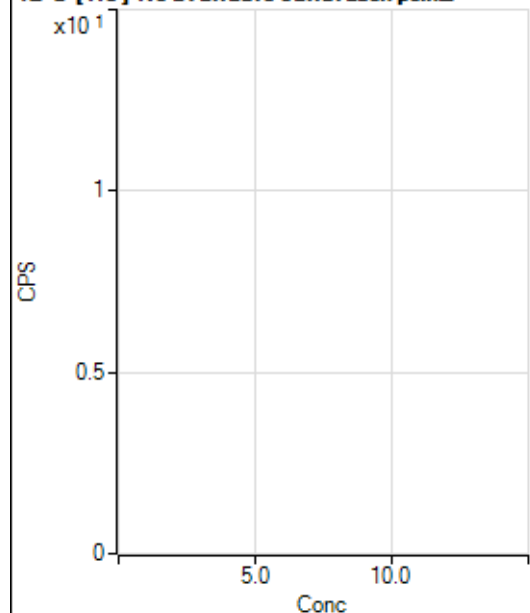
Weight: <None>

Min Conc: 0

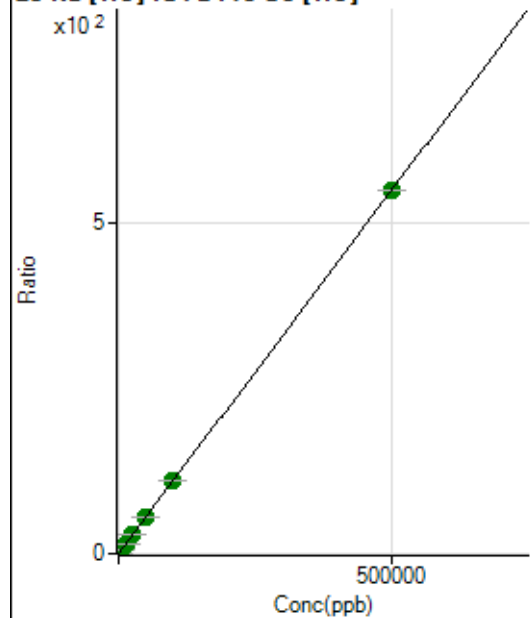
12 C [No Gas] No available calibration points



	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	17483.35	0.0378	P	1.7
2	☐	500.000	487.660	266314.44	0.5747	P	0.7
3	☐	5000.000	5243.344	2631926.47	5.8100	A	1.3
4	☐	12500.000	12986.692	6289240.60	14.3344	A	0.3
5	☐	25000.000	26314.396	12433768.57	29.0063	A	0.8
6	☐	50000.000	51162.649	23890533.53	56.3608	A	0.3
7	☐	100000.00	101604.66	47222188.19	111.8905	A	0.2
8	☐	500000.00	499482.49	232414418.7	549.8987	A	0.1

$$y = 0.0011 * x + 0.0378$$

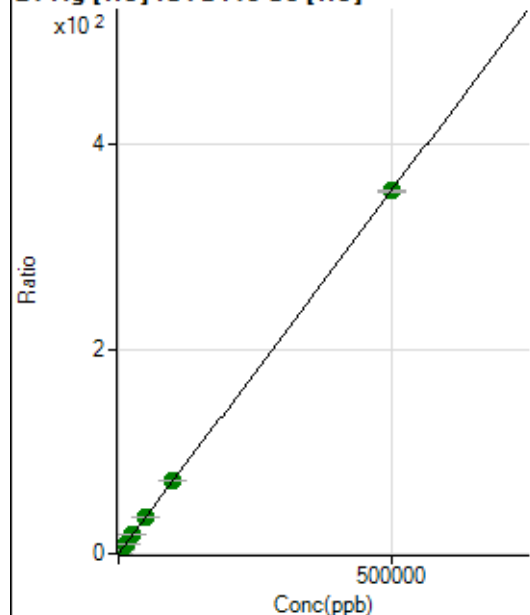
$$R = 1.0000$$

$$DL = 1.753$$

$$BEC = 34.37$$

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	2681.37	0.0058	P	4.7
2	☐	500.000	481.115	160980.28	0.3474	P	0.8
3	☐	5000.000	5218.335	1680958.71	3.7107	A	0.9
4	☐	12500.000	12909.247	4023806.09	9.1710	A	0.8
5	☐	25000.000	26223.780	7983462.45	18.6239	A	0.8
6	☐	50000.000	50629.206	15239229.22	35.9510	A	0.1
7	☐	100000.00	100392.43	30083631.50	71.2815	A	0.1
8	☐	500000.00	499785.00	149972423.3	354.8383	A	0.4

$$y = 7.0997\text{E-}004 * x + 0.0058$$

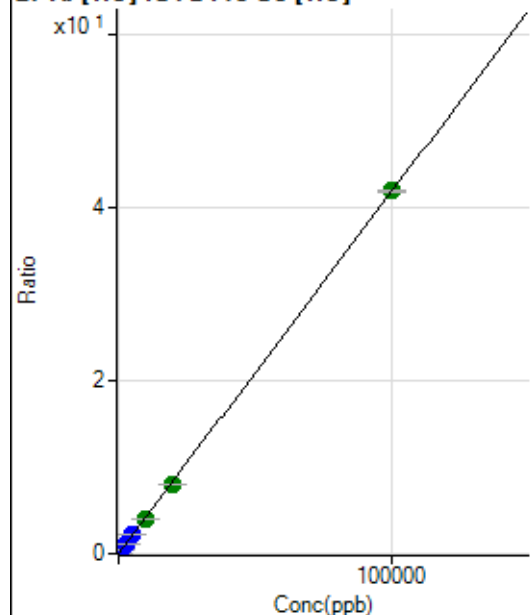
$$R = 1.0000$$

$$DL = 1.142$$

$$BEC = 8.173$$

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	438.90	0.0009	P	11.3
2	☐	20.000	17.418	3809.41	0.0082	P	5.0
3	☐	1000.000	1018.036	192984.65	0.4260	P	0.6
4	☐	2500.000	2517.355	461548.18	1.0520	P	0.4
5	☐	5000.000	5059.454	905917.87	2.1134	P	0.5
6	☐	10000.000	9583.096	1696364.11	4.0021	A	0.9
7	☐	20000.000	19043.306	3355988.07	7.9519	A	0.5
8	☐	100000.00	100229.44	17687217.10	41.8487	A	0.8

$$y = 4.1752\text{E-}004 * x + 9.4939\text{E-}004$$

$$R = 0.9999$$

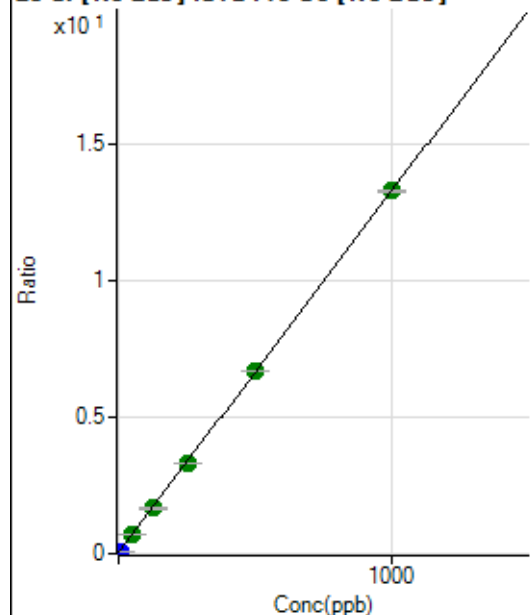
$$DL = 0.7741$$

$$BEC = 2.274$$

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	276579.47	0.0483	P	0.8
2	☐	10.000	0.312	300605.24	0.0524	P	0.7
3	☐	50.000	49.124	3966238.86	0.6971	A	2.7
4	☐	125.000	121.557	9221753.06	1.6538	A	1.0
5	☐	250.000	245.082	18110415.00	3.2853	A	0.6
6	☐	500.000	502.138	36676266.12	6.6804	A	0.4
7	☐	1000.000	1000.732	70934253.94	13.2658	A	0.7
8	☐			610809.19	0.1174	P	4.0

$$y = 0.0132 * x + 0.0483$$

$$R = 1.0000$$

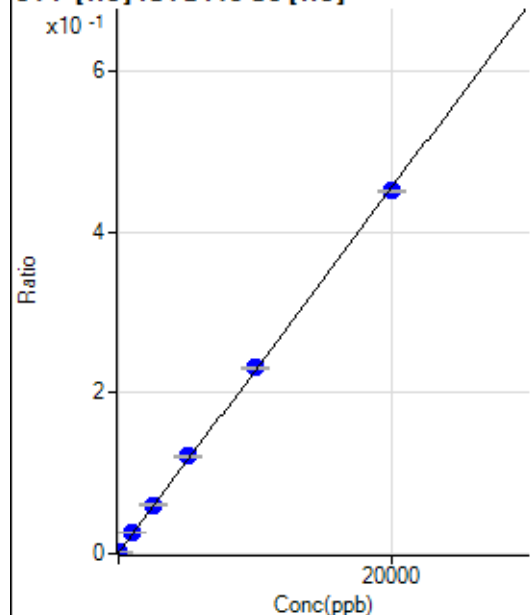
$$DL = 0.08968$$

$$BEC = 3.656$$

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	-14.526	285.56	0.0006	P	9.9
2	☐	0.000	14.526	592.24	0.0013	P	7.6
3	☐	1000.000	1070.718	11447.70	0.0253	P	0.8
4	☐	2500.000	2637.082	26695.54	0.0609	P	1.5
5	☐	5000.000	5291.458	51928.88	0.1211	P	1.6
6	☐	10000.000	10147.911	98108.09	0.2315	P	1.4
7	☐	20000.000	19832.509	190532.12	0.4514	P	0.7
8	☐			336.67	0.0008	P	7.6

$$y = 2.2715E-005 * x + 9.4819E-004$$

$$R = 0.9998$$

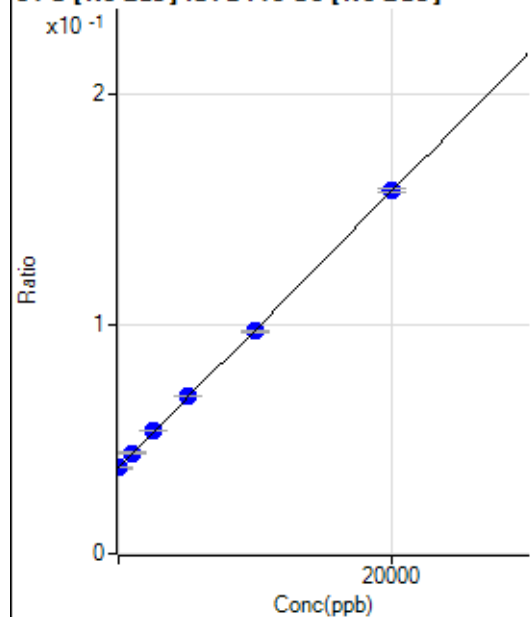
$$DL = 10.49$$

$$BEC = 41.74$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	-16.975	213877.36	0.0373	P	1.0
2	☐	0.000	16.975	215327.05	0.0375	P	1.0
3	☐	1000.000	1065.793	249622.33	0.0439	P	2.6
4	☐	2500.000	2670.264	298601.84	0.0535	P	0.6
5	☐	5000.000	5161.035	378017.67	0.0686	P	0.6
6	☐	10000.000	9844.366	531510.41	0.0968	P	0.4
7	☐	20000.000	20012.986	845559.68	0.1581	P	1.1
8	☐			168231.27	0.0323	P	2.3

$$y = 6.0305E-006 * x + 0.0374$$

R = 0.9999

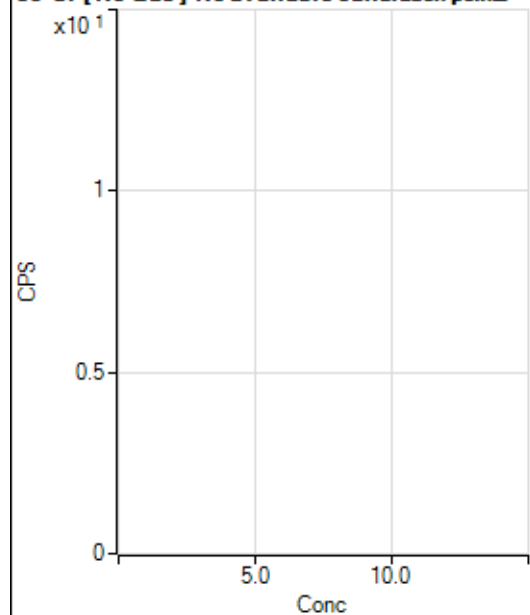
DL = 185.6

BEC = 6209

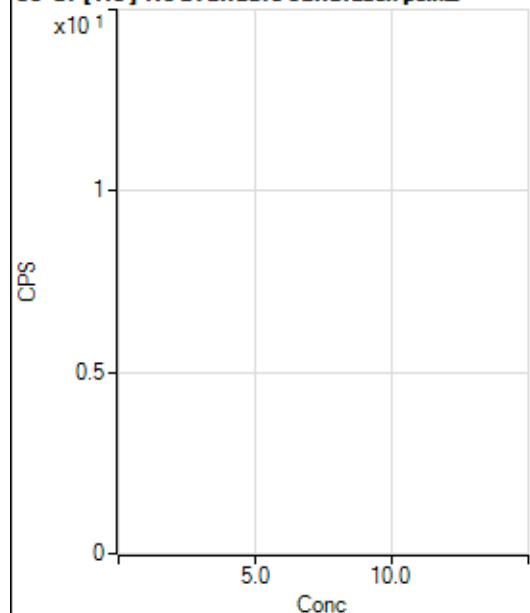
Weight: <None>

Min Conc: 0

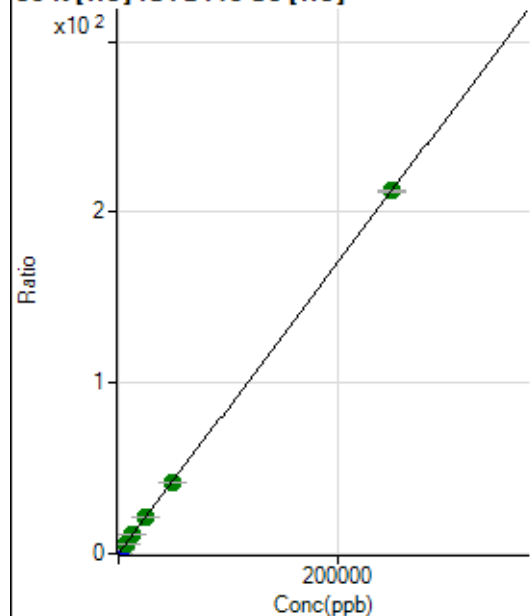
35 Cl [No Gas] No available calibration points



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

35 Cl [He] No available calibration points

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

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	56301.63	0.1218	P	1.4
2	☐	500.000	500.677	253552.13	0.5472	P	0.8
3	☐	2500.000	2763.161	1118500.82	2.4691	P	0.4
4	☐	6250.000	6481.539	2469271.63	5.6277	A	1.2
5	☐	12500.000	12925.862	4759010.66	11.1019	A	0.7
6	☐	25000.000	25234.781	9138044.87	21.5580	A	0.5
7	☐	50000.000	49461.524	17783777.24	42.1378	A	0.3
8	☐	250000.00	250054.50	89827678.66	212.5349	A	0.3

$$y = 8.4947E-004 * x + 0.1218$$

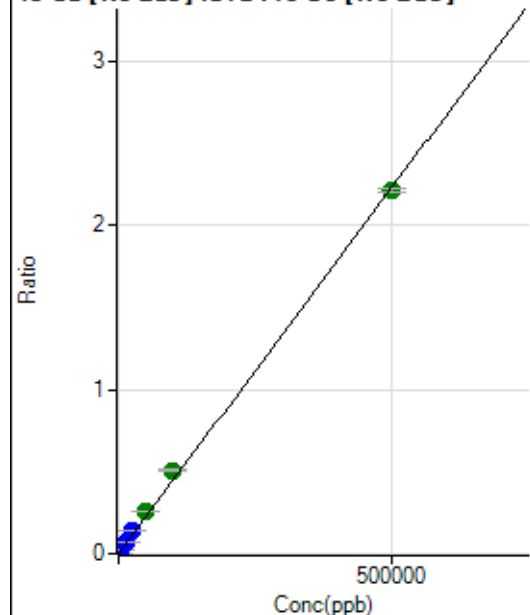
$$R = 1.0000$$

$$DL = 5.974$$

$$BEC = 143.4$$

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	985.60	0.0002	P	10.4
2	☐	500.000	493.811	13587.30	0.0024	P	2.6
3	☐	5000.000	6125.364	156067.32	0.0274	P	2.2
4	☐	12500.000	15150.134	376898.06	0.0676	P	0.2
5	☐	25000.000	30321.803	744737.51	0.1351	P	0.7
6	☐	50000.000	57783.402	1412626.21	0.2573	A	1.3
7	☐	100000.00	114078.54	2715198.00	0.5078	A	2.2
8	☐	500000.00	496062.36	11486626.77	2.2076	A	1.1

$$y = 4.4498\text{E-}006 * x + 1.7212\text{E-}004$$

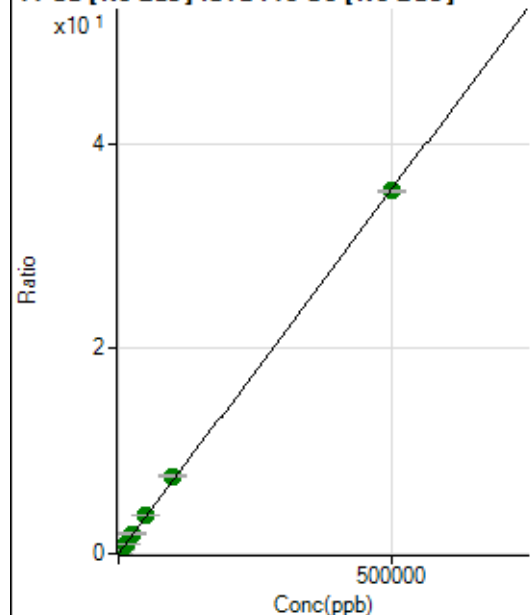
$$R = 0.9995$$

$$DL = 12.07$$

$$BEC = 38.68$$

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	23558.14	0.0041	P	1.3
2	☐	500.000	502.690	228394.80	0.0398	P	1.0
3	☐	5000.000	5602.885	2288381.23	0.4022	A	2.0
4	☐	12500.000	13742.454	5467295.41	0.9804	A	0.5
5	☐	25000.000	27563.608	10817039.56	1.9624	A	1.4
6	☐	50000.000	53315.728	20818128.30	3.7919	A	0.8
7	☐	100000.00	106375.62	40432914.12	7.5616	A	1.3
8	☐	500000.00	498228.02	184200886.1	35.4007	A	0.8

$$y = 7.1045\text{E-}005 * x + 0.0041$$

$$R = 0.9999$$

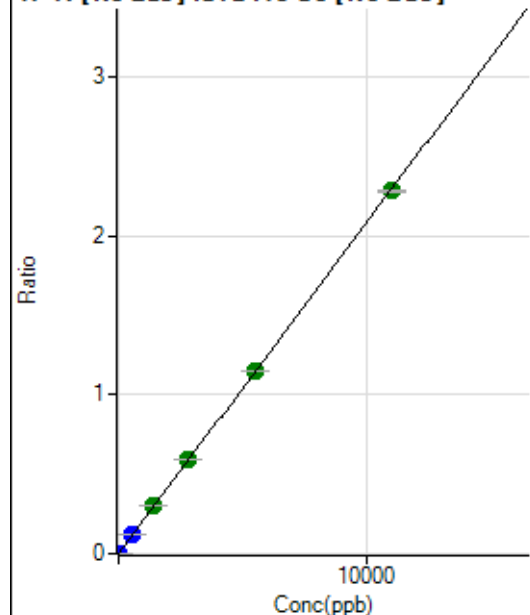
$$DL = 2.205$$

$$BEC = 57.89$$

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	137.78	0.0000	P	17.2
2	☐	5.000	4.772	5840.07	0.0010	P	1.0
3	☐	550.000	583.681	692117.74	0.1216	P	2.3
4	☐	1375.000	1435.503	1667962.42	0.2991	A	1.5
5	☐	2750.000	2855.782	3280265.02	0.5951	A	0.6
6	☐	5500.000	5525.483	6320779.21	1.1513	A	0.5
7	☐	11000.000	10951.566	12201585.37	2.2819	A	0.8
8	☐			2044.60	0.0004	P	6.5

$$y = 2.0836\text{E-}004 * x + 2.4037\text{E-}005$$

$$R = 0.9999$$

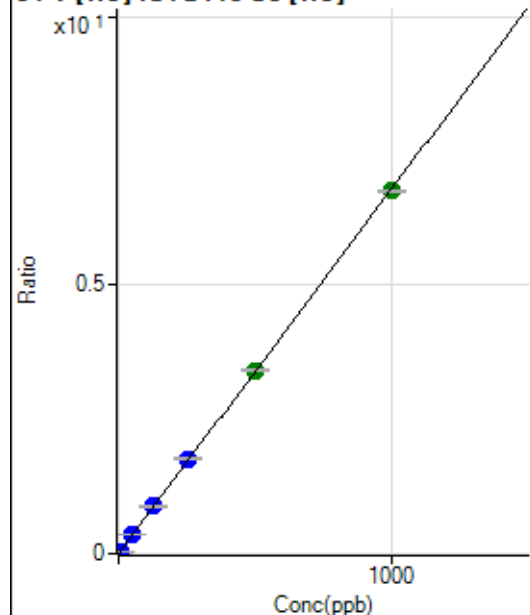
$$DL = 0.05957$$

$$BEC = 0.1154$$

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	12.22	0.0000	P	15.6
2	☐	5.000	4.765	14987.55	0.0323	P	2.1
3	☐	50.000	52.744	162070.85	0.3578	P	0.1
4	☐	125.000	129.570	385568.66	0.8788	P	0.6
5	☐	250.000	260.736	758062.38	1.7685	P	0.5
6	☐	500.000	502.520	1444724.63	3.4083	A	0.5
7	☐	1000.000	995.349	2849139.99	6.7509	A	0.8
8	☐			1014.49	0.0024	P	8.4

$$y = 0.0068 * x + 2.6441\text{E-}005$$

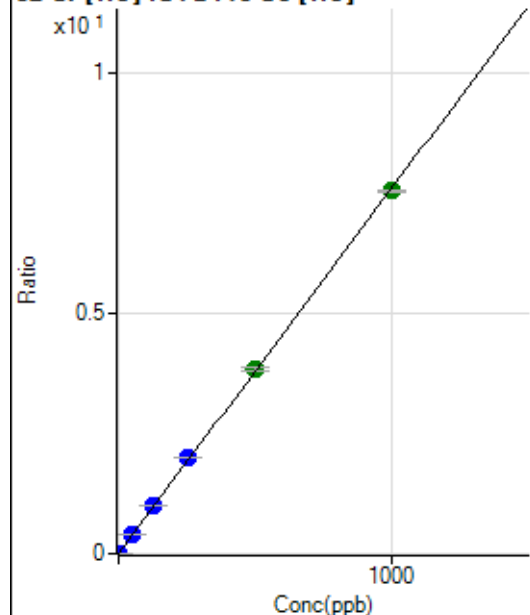
$$R = 0.9999$$

$$DL = 0.001822$$

$$BEC = 0.003899$$

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	1486.77	0.0032	P	3.0
2	☐	2.000	1.919	8243.44	0.0178	P	0.7
3	☐	50.000	53.379	185034.63	0.4085	P	0.2
4	☐	125.000	131.391	439041.59	1.0007	P	0.5
5	☐	250.000	263.868	860092.83	2.0064	P	0.5
6	☐	500.000	503.805	1622479.80	3.8280	A	1.9
7	☐	1000.000	993.663	3185038.18	7.5468	A	0.4
8	☐			28183.03	0.0667	P	1.0

$$y = 0.0076 * x + 0.0032$$

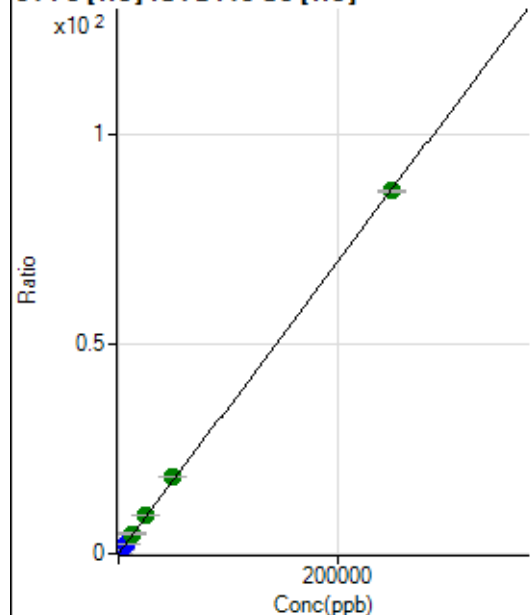
$$R = 0.9999$$

$$DL = 0.03808$$

$$BEC = 0.4239$$

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	1673.44	0.0036	P	5.4
2	☐	50.000	52.192	10069.01	0.0217	P	2.2
3	☐	2500.000	2936.166	463079.06	1.0222	P	0.3
4	☐	6250.000	7196.882	1097012.64	2.5003	P	0.2
5	☐	12500.000	13788.308	2052000.40	4.7870	A	1.3
6	☐	25000.000	26552.908	3906094.87	9.2152	A	0.9
7	☐	50000.000	52326.072	7662696.76	18.1563	A	0.3
8	☐	250000.00	249287.04	36552925.01	86.4850	A	0.5

$$y = 3.4691E-004 * x + 0.0036$$

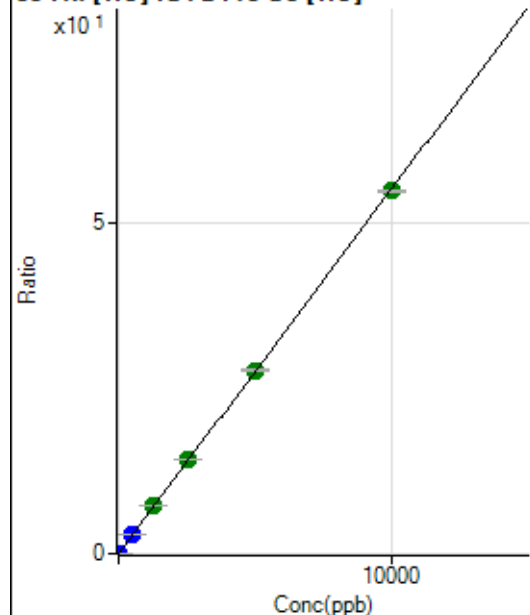
$$R = 0.9999$$

$$DL = 1.687$$

$$BEC = 10.44$$

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	2219.08	0.0048	P	4.7
2	☐	1.000	1.006	4798.58	0.0104	P	3.3
3	☐	500.000	538.732	1348576.51	2.9769	P	0.4
4	☐	1250.000	1299.888	3148573.70	7.1762	A	0.5
5	☐	2500.000	2598.383	6146938.10	14.3398	A	0.6
6	☐	5000.000	5027.865	11759383.16	27.7431	A	1.2
7	☐	10000.000	9953.299	23177158.26	54.9162	A	0.7
8	☐			14672.81	0.0347	P	0.2

$$y = 0.0055 * x + 0.0048$$

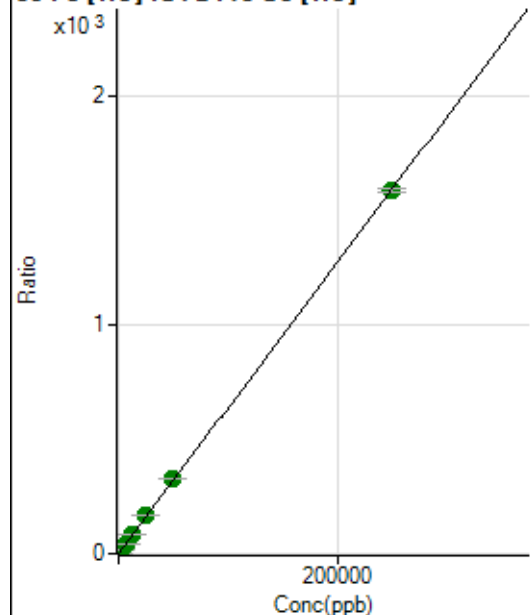
$$R = 0.9999$$

$$DL = 0.1221$$

$$BEC = 0.8706$$

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	19651.07	0.0425	P	5.4
2	☐	50.000	52.142	173022.77	0.3734	P	0.6
3	☐	2500.000	2725.926	7854918.01	17.3391	A	1.0
4	☐	6250.000	6785.521	18909014.86	43.0980	A	0.7
5	☐	12500.000	13598.408	37005408.62	86.3271	A	0.8
6	☐	25000.000	26211.518	70512105.62	166.3598	A	1.8
7	☐	50000.000	51777.012	138675223.4	328.5780	A	0.9
8	☐	250000.00	249452.87	668999203.3	1.582.870	A	1.0

$$y = 0.0063 * x + 0.0425$$

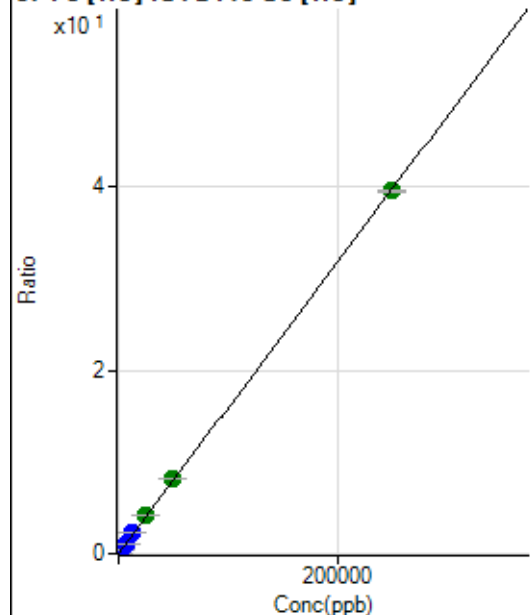
$$R = 1.0000$$

$$DL = 1.081$$

$$BEC = 6.703$$

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	1911.26	0.0041	P	3.7
2	☐	50.000	56.008	6037.93	0.0130	P	3.3
3	☐	2500.000	2887.085	209517.51	0.4625	P	1.1
4	☐	6250.000	7108.726	496976.95	1.1328	P	1.1
5	☐	12500.000	14271.004	973034.27	2.2699	P	0.3
6	☐	25000.000	26362.657	1775817.65	4.1897	A	2.0
7	☐	50000.000	51897.361	3479182.31	8.2438	A	0.6
8	☐	250000.00	249370.37	16735333.22	39.5963	A	0.4

$$y = 1.5877E-004 * x + 0.0041$$

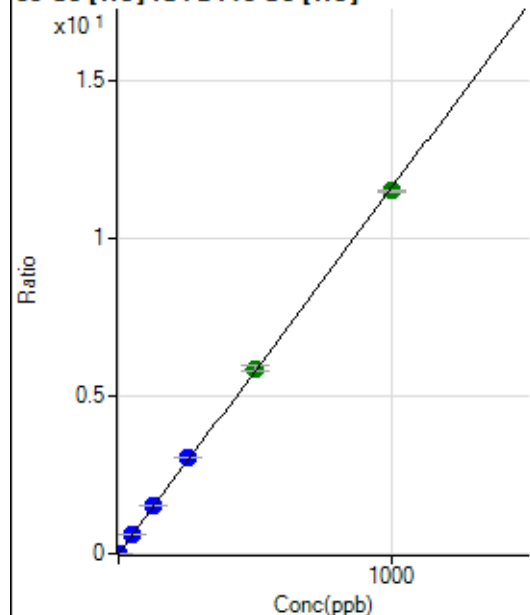
R = 1.0000

DL = 2.875

BEC = 26.05

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	206.67	0.0004	P	8.0
2	☐	1.000	1.011	5628.89	0.0121	P	2.8
3	☐	50.000	53.907	282865.30	0.6244	P	0.2
4	☐	125.000	132.221	671660.54	1.5309	P	0.2
5	☐	250.000	262.564	1302942.85	3.0396	P	0.3
6	☐	500.000	507.112	2487999.06	5.8701	A	2.5
7	☐	1000.000	992.205	4847059.86	11.4850	A	0.6
8	☐			13144.73	0.0311	P	1.1

$$y = 0.0116 * x + 4.4742E-004$$

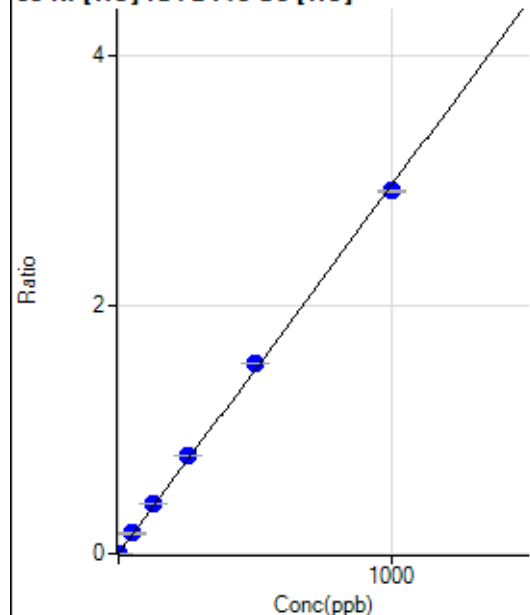
R = 0.9999

DL = 0.009297

BEC = 0.03865

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	417.79	0.0009	P	14.4
2	☐	1.000	1.066	1879.03	0.0041	P	4.2
3	☐	50.000	54.885	73937.70	0.1632	P	1.3
4	☐	125.000	134.434	174837.52	0.3985	P	0.7
5	☐	250.000	266.811	338634.20	0.7900	P	0.1
6	☐	500.000	518.087	649854.25	1.5331	P	0.4
7	☐	1000.000	985.330	1230203.29	2.9149	P	0.6
8	☐			9774.37	0.0231	P	2.3

$$y = 0.0030 * x + 9.0363E-004$$

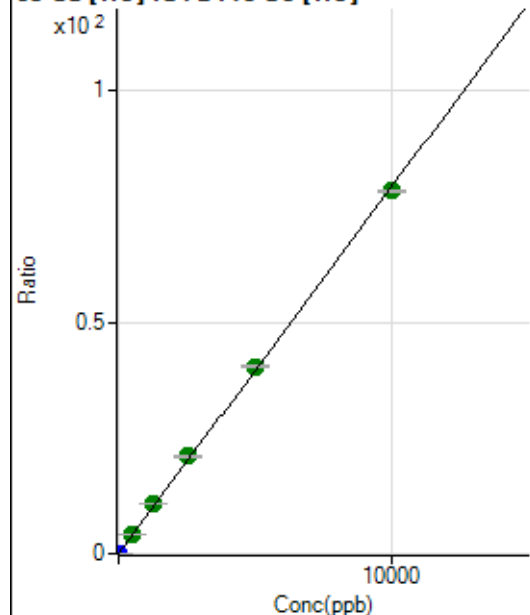
$$R = 0.9996$$

$$DL = 0.1324$$

$$BEC = 0.3055$$

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	1715.67	0.0037	P	5.3
2	☐	2.000	2.008	9096.16	0.0196	P	1.3
3	☐	500.000	540.879	1943561.24	4.2903	A	0.7
4	☐	1250.000	1343.729	4674127.36	10.6531	A	0.5
5	☐	2500.000	2652.835	9013928.69	21.0281	A	0.6
6	☐	5000.000	5108.979	17164382.24	40.4936	A	0.6
7	☐	10000.000	9893.542	33092960.34	78.4125	A	0.4
8	☐			7767.63	0.0184	P	2.3

$$y = 0.0079 * x + 0.0037$$

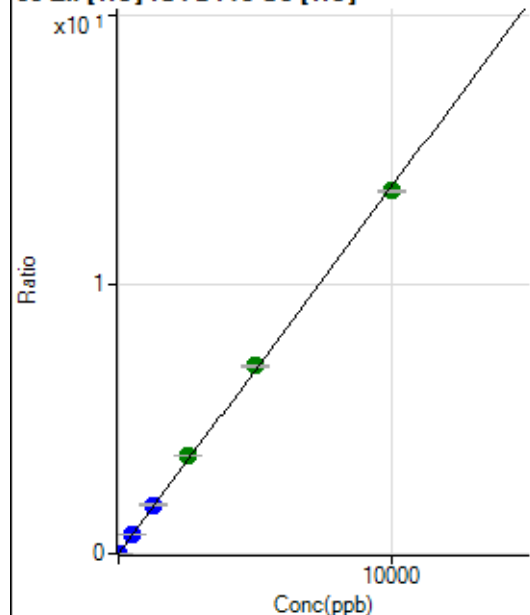
$$R = 0.9998$$

$$DL = 0.07469$$

$$BEC = 0.4685$$

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	1348.97	0.0029	P	5.4
2	☐	5.000	5.140	4600.76	0.0099	P	2.9
3	☐	500.000	545.950	338481.71	0.7472	P	0.6
4	☐	1250.000	1332.689	798363.05	1.8197	P	0.8
5	☐	2500.000	2662.227	1556988.22	3.6322	A	0.8
6	☐	5000.000	5114.938	2957143.91	6.9759	A	0.8
7	☐	10000.000	9889.341	5691105.96	13.4847	A	0.3
8	☐			2257.97	0.0053	P	3.0

$$y = 0.0014 * x + 0.0029$$

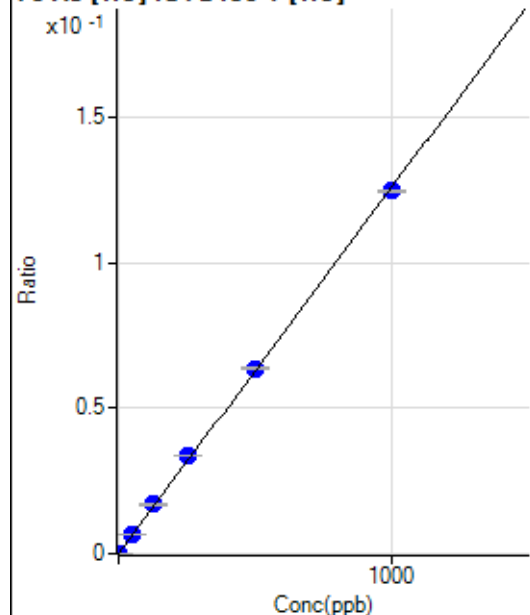
$$R = 0.9997$$

$$DL = 0.3488$$

$$BEC = 2.142$$

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	10.00	0.0000	P	87.6
2	☐	1.000	1.111	528.90	0.0001	P	5.3
3	☐	50.000	53.556	24749.57	0.0067	P	1.8
4	☐	125.000	134.121	59363.58	0.0169	P	1.0
5	☐	250.000	267.055	117333.44	0.0336	P	0.3
6	☐	500.000	506.706	225057.04	0.0638	P	1.7
7	☐	1000.000	991.065	439286.69	0.1247	P	0.4
8	☐			257.78	0.0001	P	7.9

$$y = 1.2585E-004 * x + 2.7081E-006$$

$$R = 0.9998$$

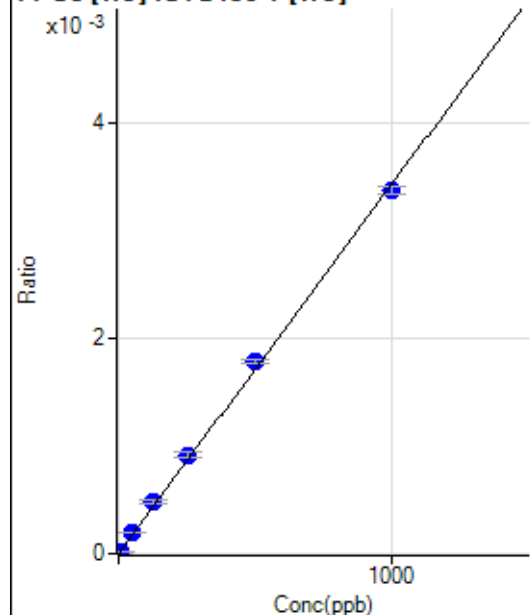
$$DL = 0.05655$$

$$BEC = 0.02152$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1.11	0.0000	P	173.
2	☐	5.000	4.192	54.45	0.0000	P	19.0
3	☐	50.000	58.783	740.03	0.0002	P	2.0
4	☐	125.000	140.155	1689.00	0.0005	P	5.9
5	☐	250.000	267.283	3197.05	0.0009	P	5.8
6	☐	500.000	520.749	6295.83	0.0018	P	2.2
7	☐	1000.000	982.975	11858.16	0.0034	P	2.2
8	☐			6.67	0.0000	P	49.8

$$y = 3.4250\text{E-}006 * x + 3.0356\text{E-}007$$

$$R = 0.9994$$

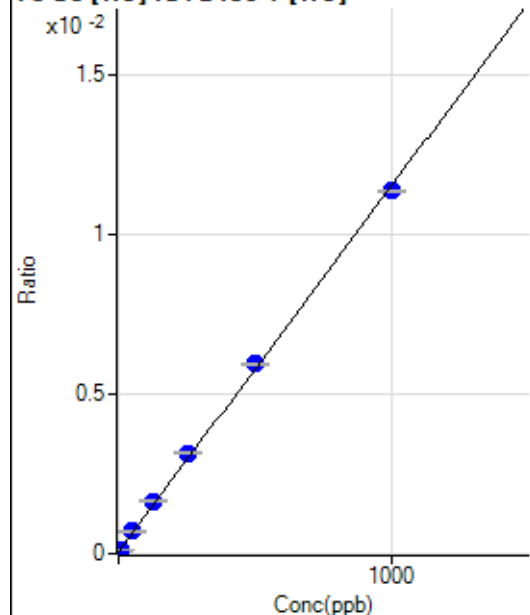
$$DL = 0.4605$$

$$BEC = 0.08863$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	224.45	0.0001	P	8.6
2	☐	5.000	5.188	446.68	0.0001	P	9.1
3	☐	50.000	56.043	2580.25	0.0007	P	4.0
4	☐	125.000	137.957	5773.39	0.0016	P	4.7
5	☐	250.000	270.034	11011.97	0.0032	P	1.0
6	☐	500.000	513.249	20969.36	0.0059	P	1.7
7	☐	1000.000	986.444	40015.00	0.0114	P	0.5
8	☐			198.89	0.0001	P	16.1

$$y = 1.1456\text{E-}005 * x + 6.0970\text{E-}005$$

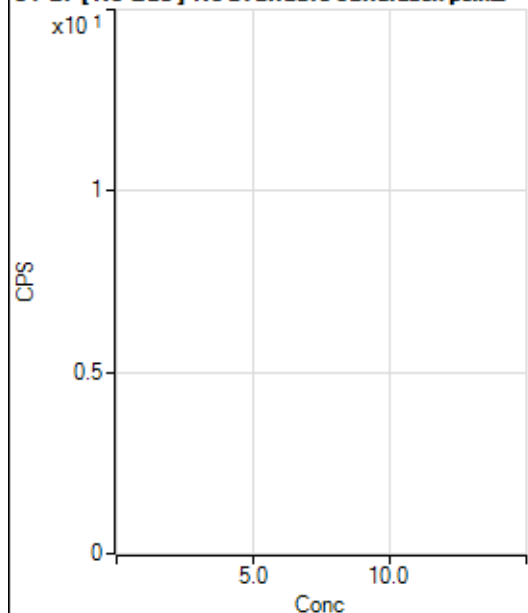
$$R = 0.9996$$

$$DL = 1.374$$

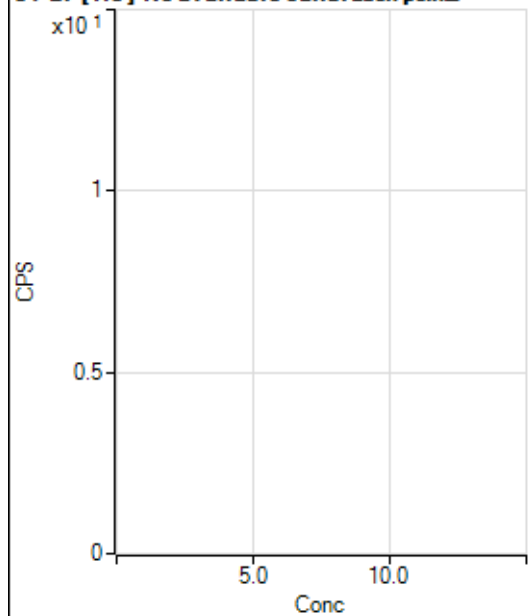
$$BEC = 5.322$$

Weight: <None>

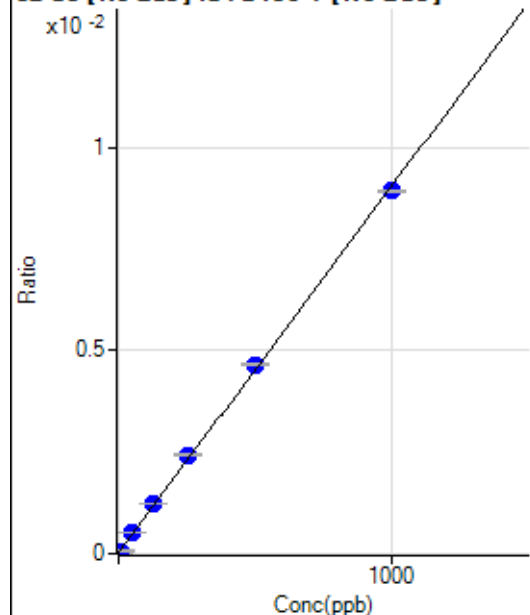
Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			6434.79		P	0.2
2	☐			6491.49		P	1.6
3	☐			6381.45		P	2.6
4	☐			6003.49		P	2.6
5	☐			5781.18		P	5.4
6	☐			5638.90		P	2.7
7	☐			5524.42		P	4.6
8	☐			6631.55		P	1.4

81 Br [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			76.66		P	15.1
2	☐			87.78		P	28.0
3	☐			70.00		P	8.2
4	☐			48.89		P	39.4
5	☐			43.33		P	20.4
6	☐			50.00		P	13.3
7	☐			46.67		P	25.8
8	☐			73.33		P	13.6

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	354.33	0.0000	P	1.5
2	☐	5.000	5.207	1087.30	0.0001	P	4.1
3	☐	50.000	56.229	8251.77	0.0005	P	2.3
4	☐	125.000	135.137	18986.00	0.0012	P	0.8
5	☐	250.000	267.436	36795.82	0.0024	P	1.6
6	☐	500.000	512.730	69389.68	0.0046	P	1.1
7	☐	1000.000	987.697	131608.92	0.0089	P	0.8
8	☐			455.04	0.0000	P	9.8

$$y = 9.0162\text{E-}006 * x + 2.2709\text{E-}005$$

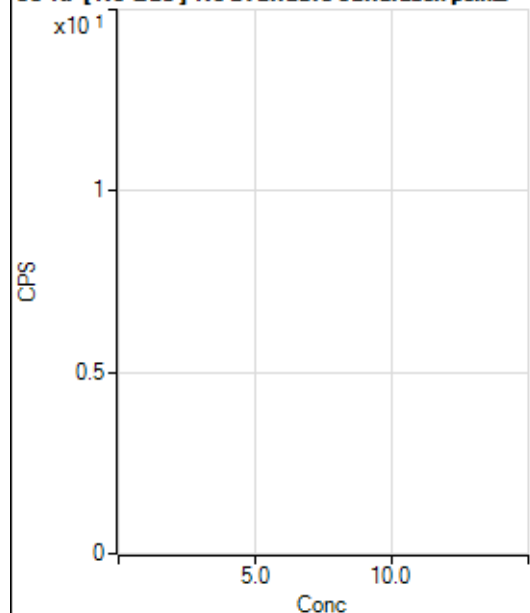
$$R = 0.9997$$

$$DL = 0.1098$$

$$BEC = 2.519$$

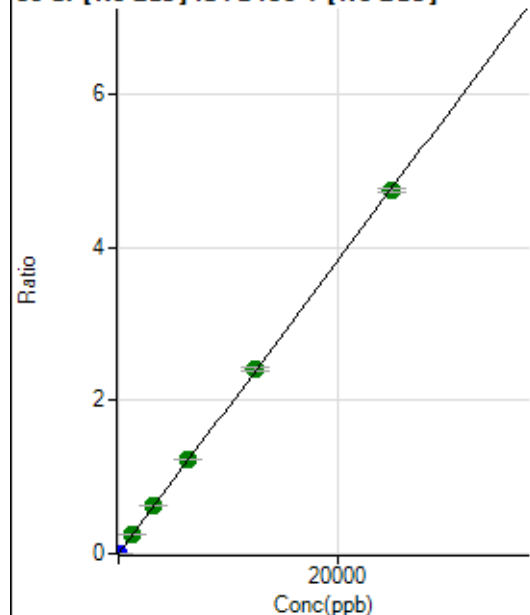
Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			133.34		P	10.9
2	☐			122.22		P	11.0
3	☐			144.45		P	20.8
4	☐			144.45		P	4.8
5	☐			138.89		P	9.1
6	☐			153.34		P	14.3
7	☐			146.67		P	10.4
8	☐			176.67		P	8.2

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	318.90	0.0000	P	2.6
2	☐	1.000	0.955	3161.48	0.0002	P	3.8
3	☐	1250.000	1319.399	3922235.36	0.2517	A	0.2
4	☐	3125.000	3243.866	9467284.23	0.6189	A	0.7
5	☐	6250.000	6433.937	18556968.89	1.2275	A	1.2
6	☐	12500.000	12679.392	36129632.24	2.4189	A	1.8
7	☐	25000.000	24845.992	69875361.18	4.7400	A	1.2
8	☐			11621.32	0.0008	P	3.2

$$y = 1.9078\text{E-}004 * x + 2.0441\text{E-}005$$

$$R = 0.9999$$

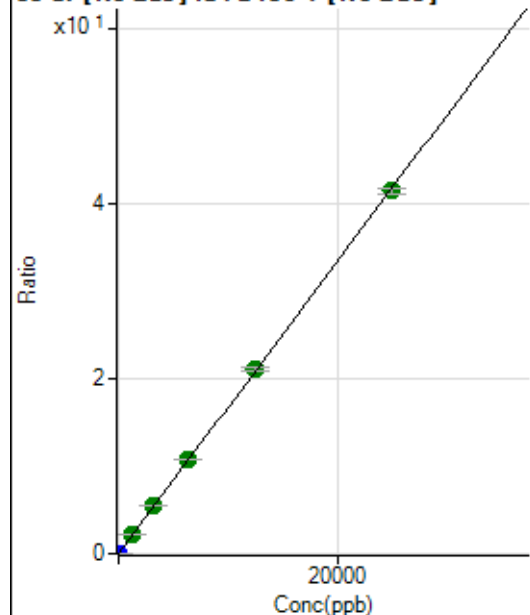
$$DL = 0.008394$$

$$BEC = 0.1071$$

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	724.47	0.0000	P	5.9
2	☐	1.000	0.987	26457.15	0.0017	P	1.2
3	☐	1250.000	1317.394	34268248.93	2.1995	A	0.7
4	☐	3125.000	3239.262	82730783.77	5.4081	A	0.5
5	☐	6250.000	6465.890	163212083.1	10.7950	A	0.6
6	☐	12500.000	12646.960	315373144.1	21.1145	A	1.6
7	☐	25000.000	24854.895	611724408.6	41.4960	A	1.3
8	☐			102465.04	0.0073	P	3.3

$$y = 0.0017 * x + 4.6444\text{E-}005$$

$$R = 0.9999$$

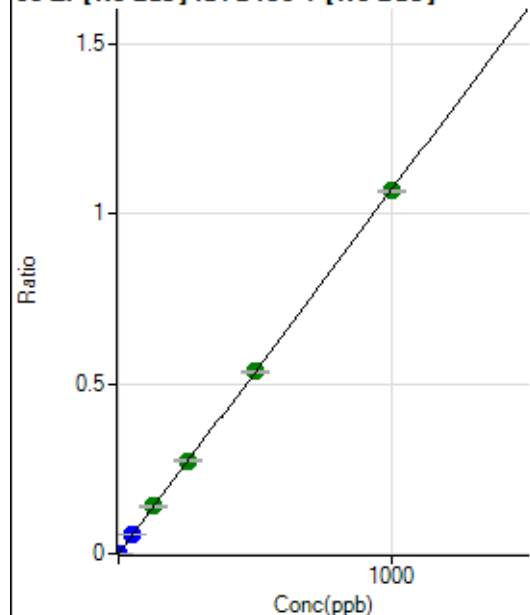
$$DL = 0.004885$$

$$BEC = 0.02782$$

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	620.02	0.0000	P	3.2
2	☐	1.000	0.884	15381.50	0.0010	P	2.3
3	☐	50.000	52.100	868736.97	0.0558	P	1.0
4	☐	125.000	129.593	2120978.81	0.1386	A	0.8
5	☐	250.000	256.282	4144378.73	0.2741	A	1.3
6	☐	500.000	500.948	8003341.82	0.5358	A	0.6
7	☐	1000.000	997.276	15723459.07	1.0666	A	0.6
8	☐			8956.14	0.0006	P	3.3

$$y = 0.0011 * x + 3.9729E-005$$

$$R = 1.0000$$

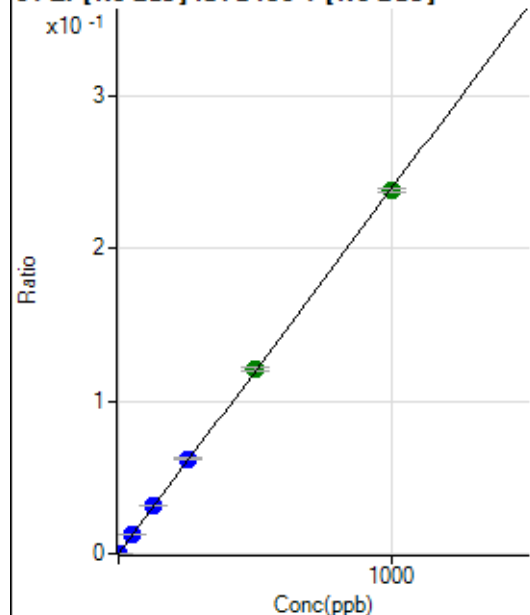
$$DL = 0.003602$$

$$BEC = 0.03715$$

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	136.67	0.0000	P	21.7
2	☐	1.000	0.871	3391.53	0.0002	P	3.0
3	☐	50.000	51.997	193959.48	0.0124	P	0.9
4	☐	125.000	129.531	474211.18	0.0310	P	0.6
5	☐	250.000	259.522	938840.77	0.0621	P	1.1
6	☐	500.000	505.996	1808289.59	0.1211	A	1.9
7	☐	1000.000	993.956	3505717.17	0.2378	A	1.1
8	☐			2017.94	0.0001	P	1.1

$$y = 2.3925E-004 * x + 8.7716E-006$$

$$R = 0.9999$$

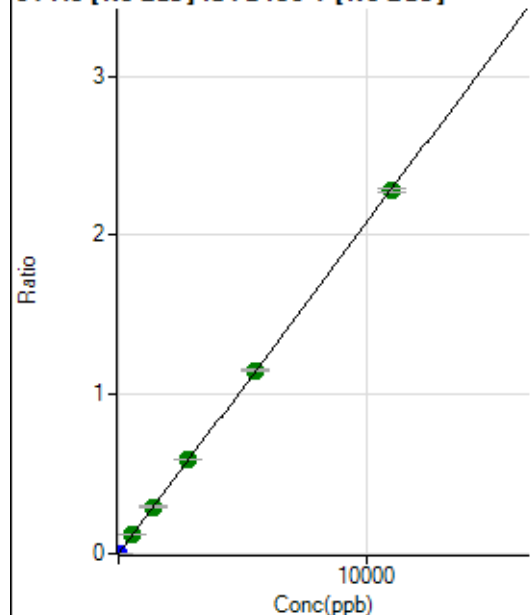
$$DL = 0.02391$$

$$BEC = 0.03666$$

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	254.45	0.0000	P	5.9
2	☐	5.000	5.574	18360.52	0.0012	P	0.2
3	☐	550.000	576.411	1868835.98	0.1199	A	0.5
4	☐	1375.000	1418.331	4514385.77	0.2951	A	0.8
5	☐	2750.000	2852.823	8973640.00	0.5936	A	1.0
6	☐	5500.000	5532.223	17192354.74	1.1510	A	1.1
7	☐	11000.000	10951.446	33588065.33	2.2785	A	0.9
8	☐			10553.88	0.0008	P	1.8

$$y = 2.0805E-004 * x + 1.6313E-005$$

$$R = 0.9999$$

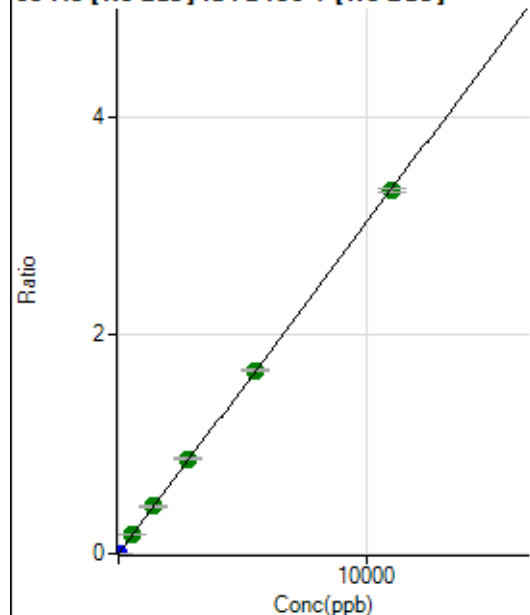
$$DL = 0.01393$$

$$BEC = 0.07841$$

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	92.22	0.0000	P	26.8
2	☐	5.000	4.825	22942.48	0.0015	P	1.1
3	☐	550.000	574.646	2716276.42	0.1743	A	1.0
4	☐	1375.000	1423.485	6605738.03	0.4318	A	1.2
5	☐	2750.000	2860.570	13119348.14	0.8678	A	1.0
6	☐	5500.000	5535.947	25083687.40	1.6793	A	1.3
7	☐	11000.000	10947.091	48954488.16	3.3208	A	0.9
8	☐			12106.19	0.0009	P	1.8

$$y = 3.0335E-004 * x + 5.9170E-006$$

$$R = 0.9999$$

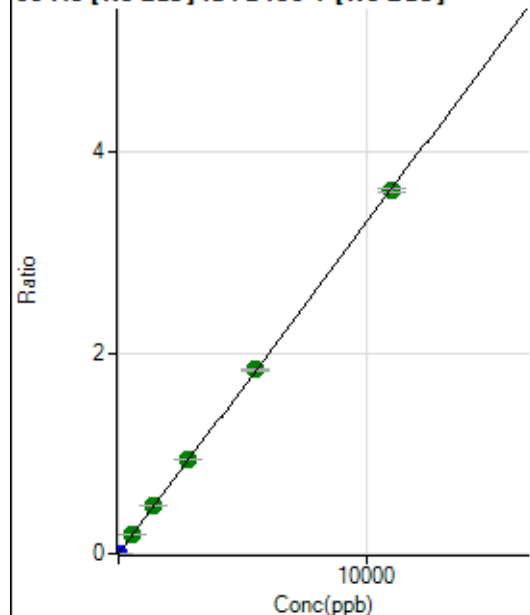
$$DL = 0.01571$$

$$BEC = 0.01951$$

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	166.67	0.0000	P	6.8
2	☐	5.000	4.865	25235.18	0.0016	P	1.4
3	☐	550.000	579.608	2980566.83	0.1913	A	0.7
4	☐	1375.000	1424.301	7191306.07	0.4701	A	0.4
5	☐	2750.000	2848.286	14211626.59	0.9401	A	1.4
6	☐	5500.000	5547.776	27349103.76	1.8310	A	1.1
7	☐	11000.000	10943.897	53245851.43	3.6119	A	1.0
8	☐			20305.29	0.0015	P	2.0

$$y = 3.3004\text{E-}004 * x + 1.0686\text{E-}005$$

$$R = 0.9999$$

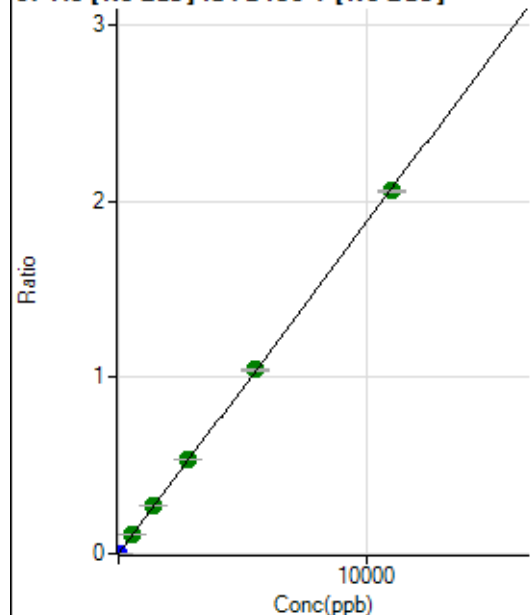
$$DL = 0.0066$$

$$BEC = 0.03238$$

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	73.34	0.0000	P	25.4
2	☐	5.000	4.859	14366.04	0.0009	P	3.0
3	☐	550.000	580.771	1704726.52	0.1094	A	0.8
4	☐	1375.000	1427.661	4114324.18	0.2689	A	0.5
5	☐	2750.000	2837.150	8079988.70	0.5345	A	1.2
6	☐	5500.000	5556.680	15634864.21	1.0467	A	1.3
7	☐	11000.000	10941.752	30384020.66	2.0612	A	0.4
8	☐			7634.29	0.0005	P	4.1

$$y = 1.8838\text{E-}004 * x + 4.7002\text{E-}006$$

$$R = 0.9999$$

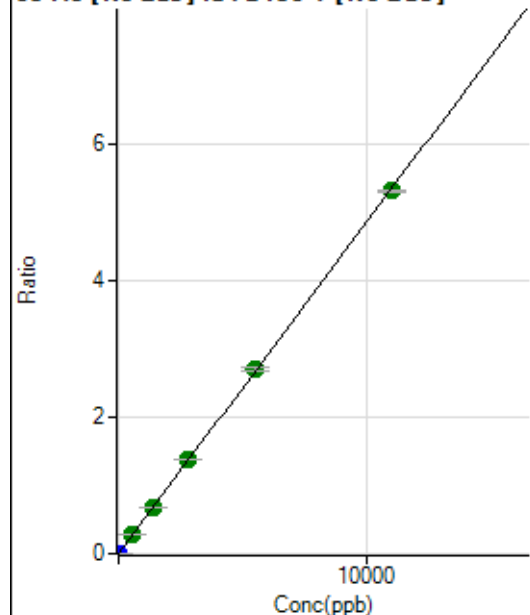
$$DL = 0.01905$$

$$BEC = 0.02495$$

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	165.56	0.0000	P	13.8
2	☐	5.000	4.787	36487.75	0.0023	P	1.8
3	☐	550.000	576.034	4362164.17	0.2800	A	0.1
4	☐	1375.000	1414.552	10517255.89	0.6875	A	0.1
5	☐	2750.000	2849.309	20935923.99	1.3848	A	1.0
6	☐	5500.000	5567.384	40415168.57	2.7058	A	1.4
7	☐	11000.000	10935.235	78345505.50	5.3146	A	0.8
8	☐			18891.16	0.0014	P	2.6

$$y = 4.8601\text{E-}004 * x + 1.0600\text{E-}005$$

$$R = 0.9999$$

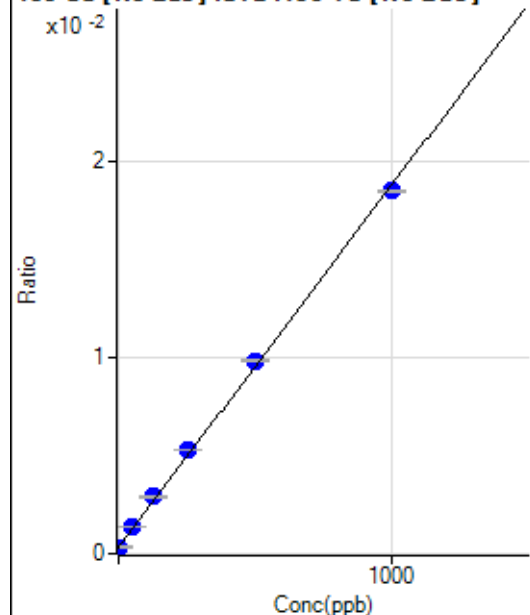
$$DL = 0.008999$$

$$BEC = 0.02181$$

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	3879.44	0.0003	P	3.0
2	☐	1.000	1.460	4160.63	0.0003	P	3.4
3	☐	50.000	56.841	16949.97	0.0014	P	0.7
4	☐	125.000	140.272	35766.10	0.0029	P	1.1
5	☐	250.000	271.160	65992.25	0.0053	P	0.4
6	☐	500.000	515.327	122656.99	0.0098	P	1.2
7	☐	1000.000	984.795	230295.43	0.0185	P	0.7
8	☐			3692.73	0.0003	P	3.6

$$y = 1.8426\text{E-}005 * x + 3.1250\text{E-}004$$

$$R = 0.9995$$

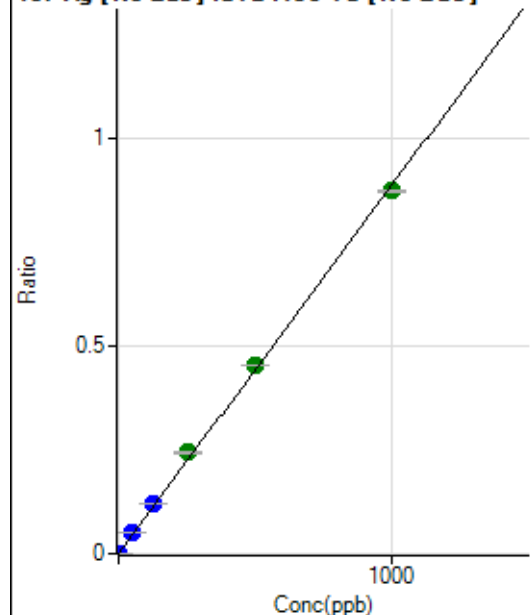
$$DL = 1.508$$

$$BEC = 16.96$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	81.11	0.0000	P	26.7
2	☐	1.000	0.992	10875.27	0.0009	P	2.2
3	☐	50.000	56.477	624878.77	0.0501	P	0.7
4	☐	125.000	137.777	1509695.13	0.1223	P	0.4
5	☐	250.000	274.438	3027688.12	0.2436	A	0.9
6	☐	500.000	512.356	5687103.39	0.4548	A	0.7
7	☐	1000.000	985.792	10915964.98	0.8750	A	0.3
8	☐			1335.63	0.0001	P	8.8

$$y = 8.8757E-004 * x + 6.5333E-006$$

$$R = 0.9995$$

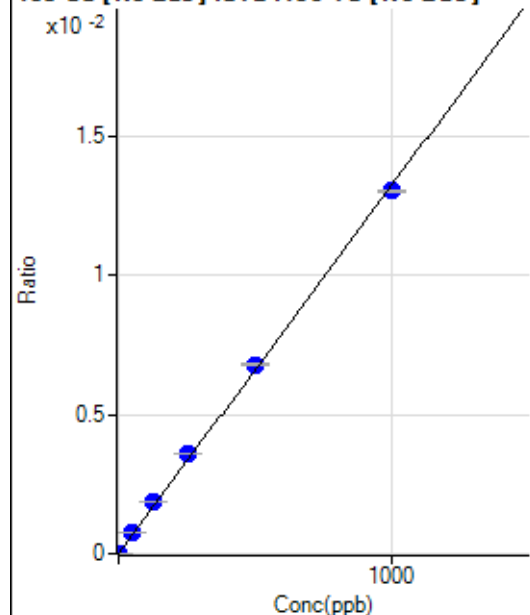
$$DL = 0.005902$$

$$BEC = 0.007361$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	14.44	0.0000	P	14.6
2	☐	1.000	0.905	161.12	0.0000	P	4.6
3	☐	50.000	57.289	9453.15	0.0008	P	1.9
4	☐	125.000	140.003	22861.42	0.0019	P	0.7
5	☐	250.000	271.305	44591.68	0.0036	P	1.1
6	☐	500.000	513.339	84877.53	0.0068	P	0.7
7	☐	1000.000	985.764	162592.71	0.0130	P	0.6
8	☐			71.11	0.0000	P	29.7

$$y = 1.3219E-005 * x + 1.1652E-006$$

$$R = 0.9996$$

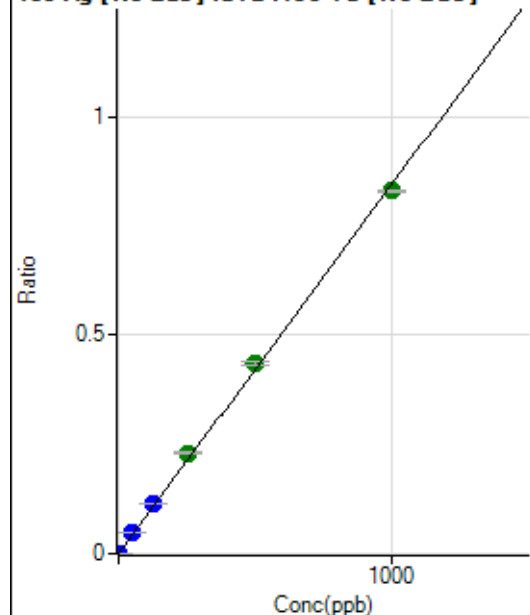
$$DL = 0.03861$$

$$BEC = 0.08815$$

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	33.33	0.0000	P	19.9
2	☐	1.000	0.989	10278.16	0.0008	P	1.9
3	☐	50.000	56.703	597053.66	0.0479	P	0.6
4	☐	125.000	137.455	1433441.11	0.1161	P	0.3
5	☐	250.000	273.606	2872814.54	0.2311	A	1.1
6	☐	500.000	517.183	5463575.09	0.4369	A	1.7
7	☐	1000.000	983.615	10366380.54	0.8309	A	0.2
8	☐			1243.40	0.0001	P	5.7

$$y = 8.4474\text{E-}004 * x + 2.6851\text{E-}006$$

$$R = 0.9994$$

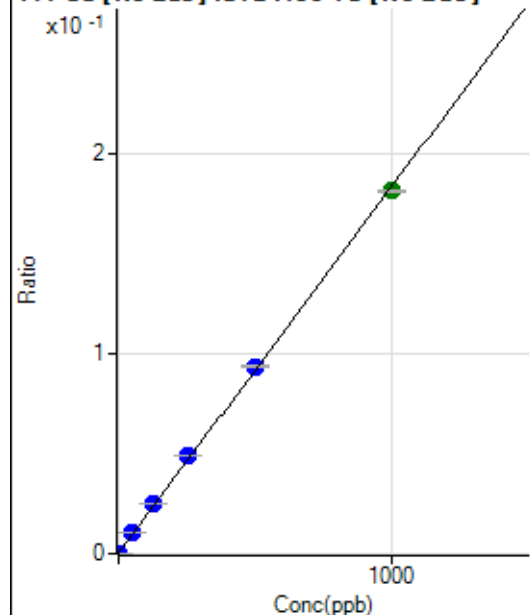
$$DL = 0.001895$$

$$BEC = 0.003179$$

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	2727.72	0.0002	P	2.7
2	☐	1.000	1.100	5164.32	0.0004	P	2.6
3	☐	50.000	56.370	131382.74	0.0105	P	1.2
4	☐	125.000	137.555	313625.52	0.0254	P	0.2
5	☐	250.000	267.505	611530.23	0.0492	P	0.5
6	☐	500.000	509.689	1169815.52	0.0935	P	0.9
7	☐	1000.000	988.891	2261633.54	0.1813	A	0.4
8	☐			2896.26	0.0002	P	4.0

$$y = 1.8310\text{E-}004 * x + 2.1973\text{E-}004$$

$$R = 0.9997$$

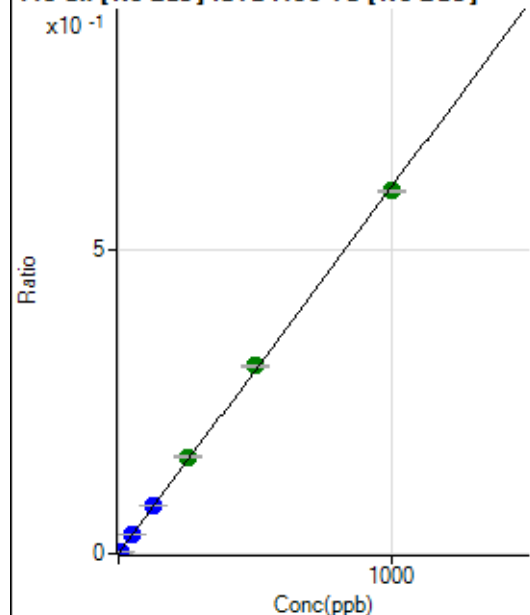
$$DL = 0.09735$$

$$BEC = 1.2$$

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	5016.47	0.0004	P	2.3
2	☐	5.000	4.826	40565.91	0.0033	P	1.2
3	☐	50.000	53.845	408837.66	0.0328	P	0.8
4	☐	125.000	131.126	978919.76	0.0793	P	0.7
5	☐	250.000	264.169	1980629.71	0.1593	A	0.3
6	☐	500.000	511.653	3854850.29	0.3082	A	1.5
7	☐	1000.000	989.674	7433974.61	0.5959	A	0.4
8	☐			5429.96	0.0005	P	1.6

$$y = 6.0166\text{E-}004 * x + 4.0432\text{E-}004$$

$$R = 0.9998$$

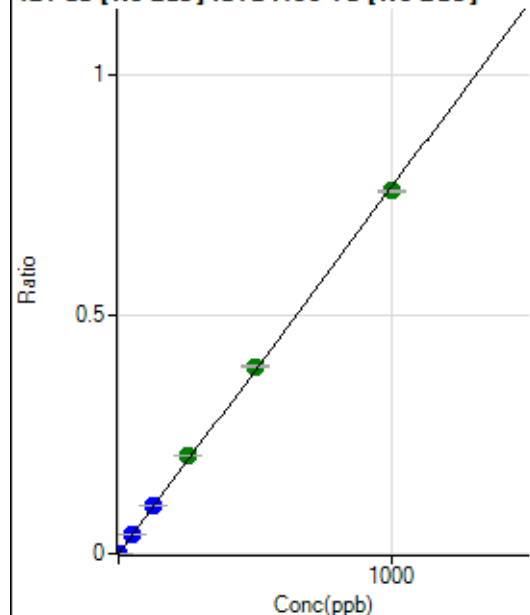
$$DL = 0.04705$$

$$BEC = 0.672$$

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	207.78	0.0000	P	26.1
2	☐	2.000	1.939	18434.14	0.0015	P	3.2
3	☐	50.000	52.920	506038.92	0.0406	P	0.7
4	☐	125.000	130.549	1236085.16	0.1001	P	0.4
5	☐	250.000	266.064	2536353.30	0.2041	A	0.2
6	☐	500.000	510.673	4897675.10	0.3916	A	0.6
7	☐	1000.000	989.808	9470182.57	0.7591	A	0.4
8	☐			7064.02	0.0006	P	3.5

$$y = 7.6686\text{E-}004 * x + 1.6695\text{E-}005$$

$$R = 0.9998$$

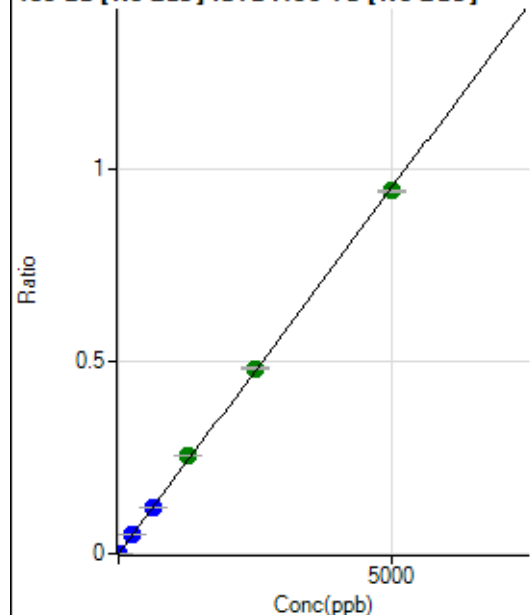
$$DL = 0.01705$$

$$BEC = 0.02177$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	128.89	0.0000	P	34.7
2	☐	10.000	9.375	21940.31	0.0018	P	1.4
3	☐	250.000	256.891	607681.10	0.0488	P	0.8
4	☐	625.000	637.052	1492358.78	0.1209	P	0.4
5	☐	1250.000	1333.786	3145982.70	0.2531	A	0.2
6	☐	2500.000	2531.202	6006500.75	0.4803	A	1.4
7	☐	5000.000	4961.602	11746170.66	0.9415	A	0.8
8	☐			4846.42	0.0004	P	2.2

$$y = 1.8975\text{E-}004 * x + 1.0348\text{E-}005$$

$$R = 0.9998$$

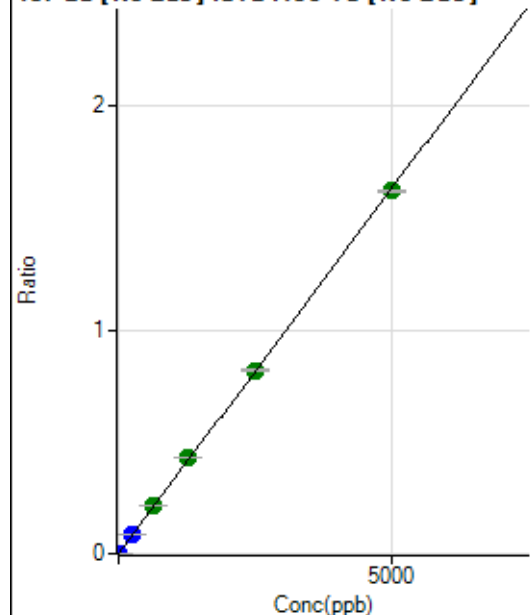
$$DL = 0.0567$$

$$BEC = 0.05453$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	211.12	0.0000	P	12.1
2	☐	10.000	9.466	38061.92	0.0031	P	2.5
3	☐	250.000	257.962	1048881.66	0.0842	P	1.0
4	☐	625.000	664.860	2677189.30	0.2169	A	0.4
5	☐	1250.000	1314.115	5327717.63	0.4286	A	0.6
6	☐	2500.000	2513.608	10252812.21	0.8199	A	1.2
7	☐	5000.000	4971.788	20231300.67	1.6216	A	0.2
8	☐			8459.27	0.0007	P	3.1

$$y = 3.2616\text{E-}004 * x + 1.6989\text{E-}005$$

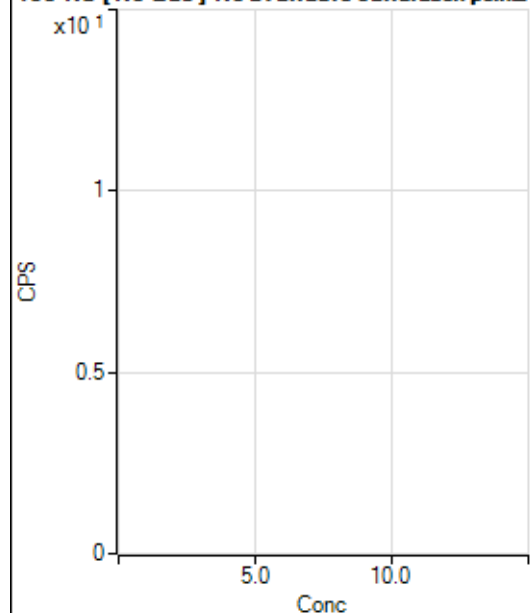
$$R = 0.9999$$

$$DL = 0.01887$$

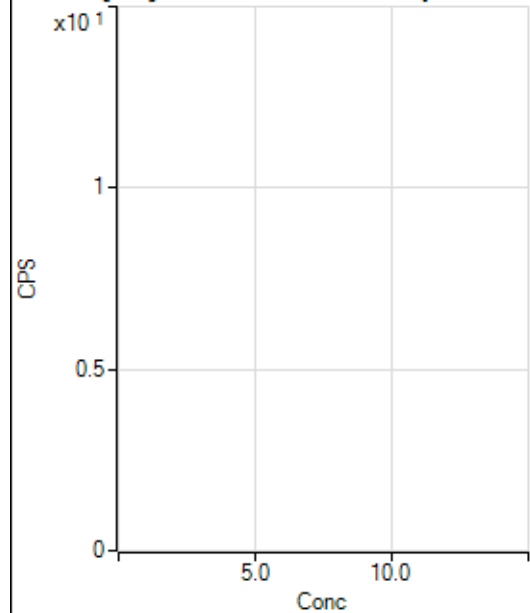
$$BEC = 0.05209$$

Weight: <None>

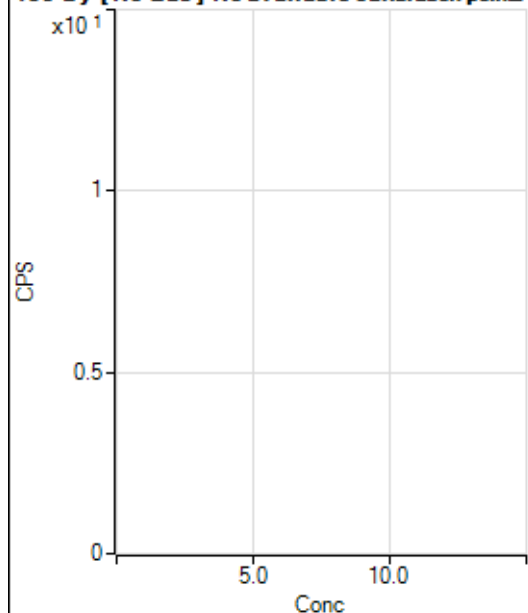
Min Conc: 0

150 Nd [No Gas] No available calibration points

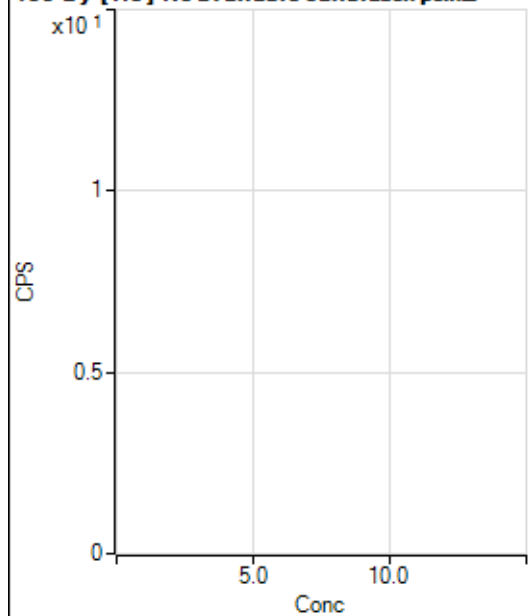
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			21.11		P	9.1
2	☐			13.33		P	25.0
3	☐			46.67		P	7.1
4	☐			97.78		P	11.0
5	☐			167.78		P	5.0
6	☐			320.01		P	11.3
7	☐			551.13		P	9.6
8	☐			208.89		P	15.2

150 Nd [He] No available calibration points

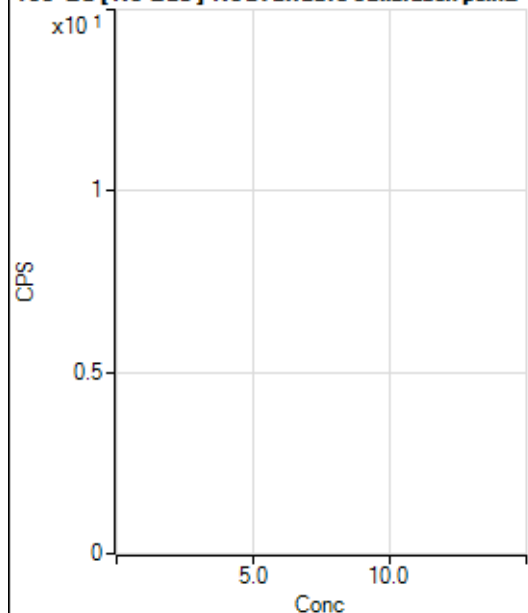
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			5.55		P	69.3
2	☐			12.22		P	15.7
3	☐			21.11		P	36.5
4	☐			44.44		P	28.4
5	☐			47.78		P	22.4
6	☐			100.00		P	20.8
7	☐			164.45		P	10.2
8	☐			106.67		P	16.5

156 Dy [No Gas] No available calibration points

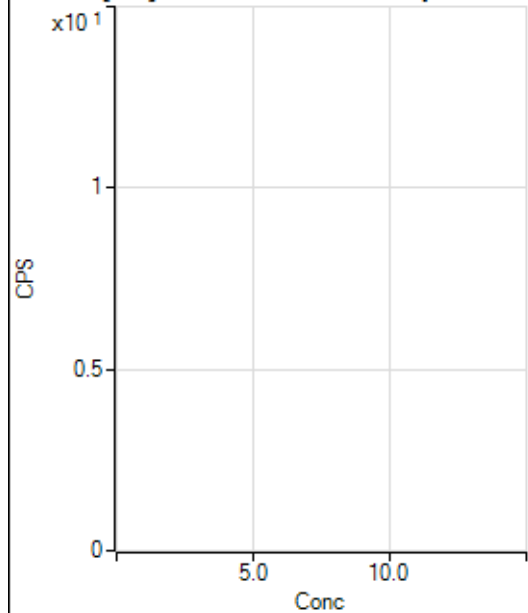
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			161.11		P	21.1
2	☐			75.56		P	18.4
3	☐			88.89		P	28.4
4	☐			92.22		P	2.1
5	☐			116.67		P	25.7
6	☐			162.23		P	22.7
7	☐			263.34		P	5.8
8	☐			365.57		P	12.4

156 Dy [He] No available calibration points

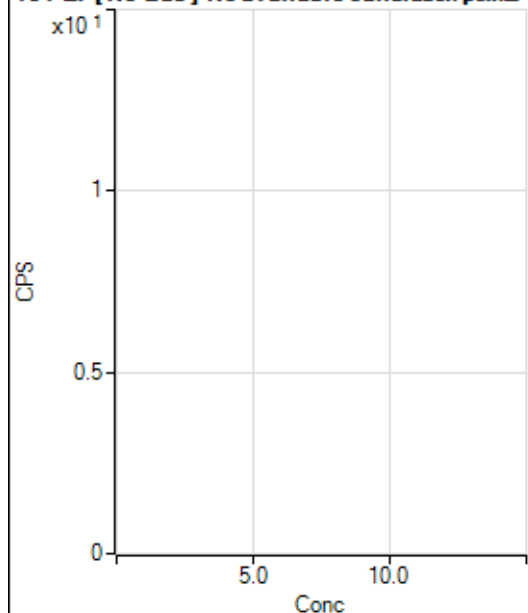
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			28.89		P	6.7
2	☐			14.44		P	13.4
3	☐			51.11		P	10.0
4	☐			81.11		P	10.3
5	☐			160.00		P	16.5
6	☐			322.23		P	13.8
7	☐			523.35		P	12.2
8	☐			256.67		P	4.7

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

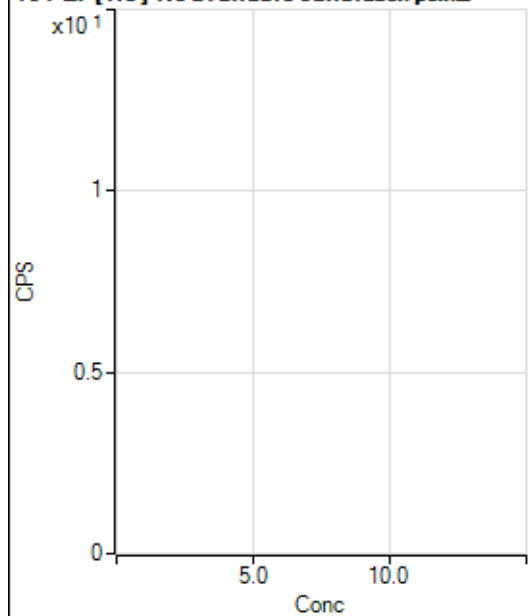
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			54.44		P	21.5
2	☐			82.22		P	22.3
3	☐			73.33		P	13.6
4	☐			84.44		P	11.4
5	☐			104.44		P	27.1
6	☐			160.00		P	16.3
7	☐			238.89		P	4.9
8	☐			367.79		P	10.5

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			433.35		P	4.3
2	☐			440.01		P	14.5
3	☐			421.12		P	5.9
4	☐			452.23		P	1.7
5	☐			470.01		P	14.0
6	☐			447.79		P	7.1
7	☐			550.02		P	8.2
8	☐			613.35		P	10.3

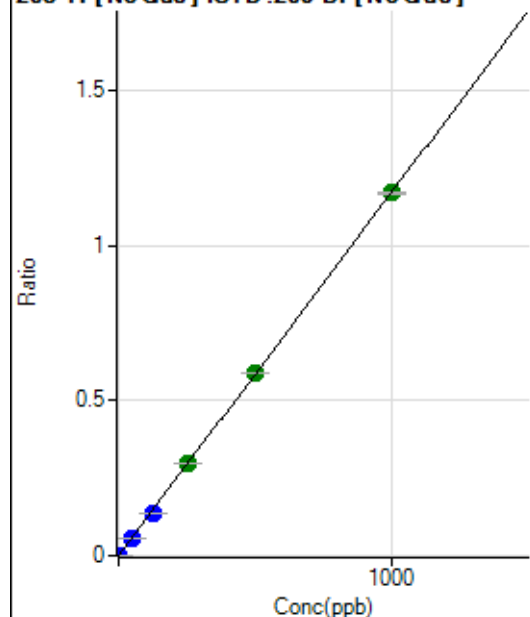
164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			128.89		P	3.0
2	☐			115.56		P	13.0
3	☐			142.23		P	15.3
4	☐			134.45		P	5.2
5	☐			156.67		P	2.1
6	☐			227.78		P	5.5
7	☐			318.90		P	0.6
8	☐			395.56		P	15.9

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			65.56		P	14.7
2	☐			60.00		P	5.5
3	☐			53.33		P	6.3
4	☐			82.22		P	43.4
5	☐			101.11		P	13.3
6	☐			143.34		P	2.3
7	☐			181.11		P	8.3
8	☐			218.89		P	24.1

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	127.78	0.0000	P	11.6
2	☐	1.000	0.845	7104.13	0.0010	P	3.2
3	☐	50.000	46.701	391999.44	0.0547	P	0.5
4	☐	125.000	116.550	960393.50	0.1365	P	1.7
5	☐	250.000	253.921	2135697.09	0.2974	A	0.9
6	☐	500.000	502.498	4233565.70	0.5885	A	0.2
7	☐	1000.000	998.992	8272158.70	1.1700	A	0.6
8	☐			970.04	0.0002	P	2.9

$$y = 0.0012 * x + 1.8018E-005$$

$$R = 0.9999$$

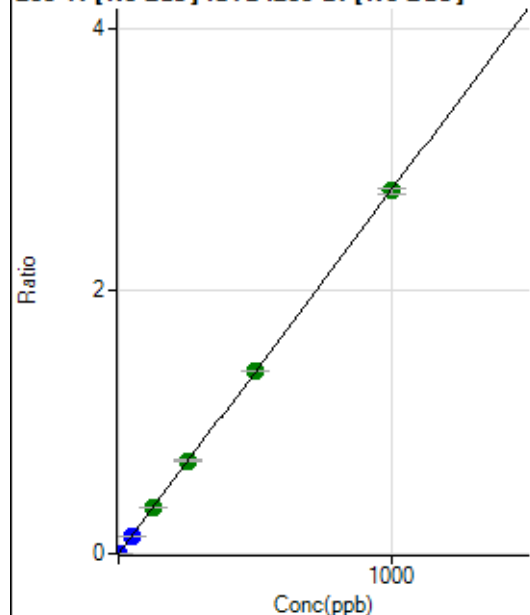
$$DL = 0.005349$$

$$BEC = 0.01539$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	285.56	0.0000	P	17.6
2	☐	1.000	0.847	16813.84	0.0024	P	1.8
3	☐	50.000	47.271	938018.64	0.1309	P	0.3
4	☐	125.000	128.265	2498751.63	0.3552	A	0.8
5	☐	250.000	256.025	5090737.81	0.7089	A	1.7
6	☐	500.000	501.463	9988060.96	1.3884	A	0.6
7	☐	1000.000	997.490	19526231.93	2.7618	A	1.3
8	☐			2500.26	0.0004	P	8.5

$$y = 0.0028 * x + 4.0342E-005$$

$$R = 1.0000$$

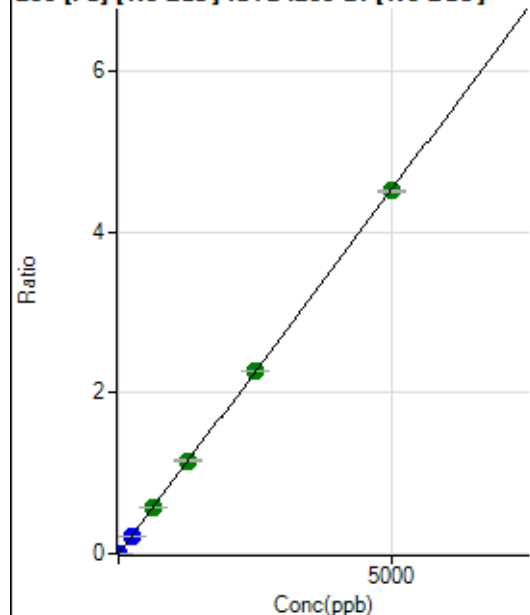
$$DL = 0.007712$$

$$BEC = 0.01457$$

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	822.26	0.0001	P	3.7
2	☐	1.000	0.846	6220.37	0.0009	P	2.2
3	☐	250.000	239.122	1552244.89	0.2166	P	0.3
4	☐	625.000	640.365	4080276.19	0.5800	A	1.4
5	☐	1250.000	1274.811	8290614.18	1.1545	A	1.4
6	☐	2500.000	2518.816	16408560.03	2.2809	A	0.1
7	☐	5000.000	4983.012	31903344.80	4.5123	A	0.7
8	☐			14020.66	0.0023	P	2.4

$$y = 9.0552\text{E-}004 * x + 1.1600\text{E-}004$$

$$R = 1.0000$$

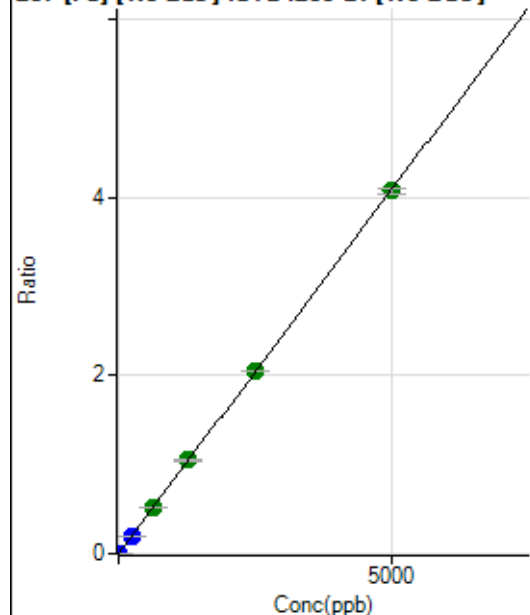
$$DL = 0.01426$$

$$BEC = 0.1281$$

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	685.58	0.0001	P	9.3
2	☐	1.000	0.879	5742.39	0.0008	P	4.4
3	☐	250.000	235.661	1380295.55	0.1926	P	1.4
4	☐	625.000	639.658	3677734.18	0.5227	A	1.0
5	☐	1250.000	1282.136	7524043.99	1.0477	A	0.4
6	☐	2500.000	2512.517	14768787.00	2.0530	A	0.2
7	☐	5000.000	4984.592	28796221.24	4.0729	A	1.4
8	☐			12541.44	0.0020	P	2.4

$$y = 8.1708\text{E-}004 * x + 9.6673\text{E-}005$$

$$R = 1.0000$$

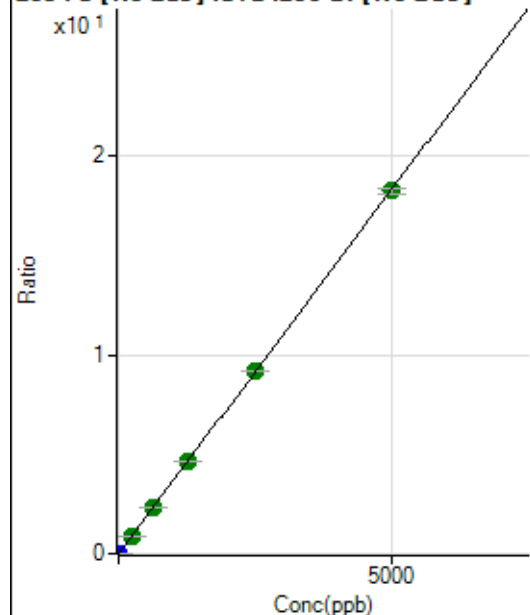
$$DL = 0.03291$$

$$BEC = 0.1183$$

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	3466.90	0.0005	P	2.9
2	☐	1.000	0.871	25922.25	0.0037	P	1.1
3	☐	250.000	247.631	6495674.59	0.9066	A	0.9
4	☐	625.000	637.462	16413618.09	2.3330	A	1.2
5	☐	1250.000	1277.088	33562216.93	4.6735	A	0.7
6	☐	2500.000	2512.333	66134162.35	9.1934	A	0.3
7	☐	5000.000	4985.622	128984103.9	18.2434	A	1.4
8	☐			56688.89	0.0091	P	1.7

$$y = 0.0037 * x + 4.8882E-004$$

$$R = 1.0000$$

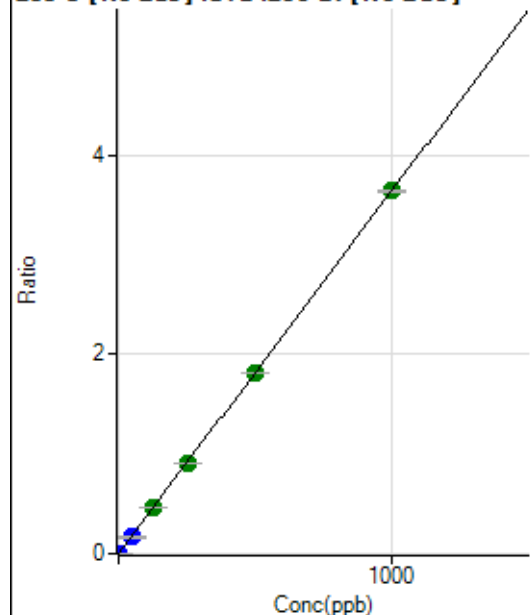
$$DL = 0.01154$$

$$BEC = 0.1336$$

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	28.89	0.0000	P	11.6
2	☐	1.000	0.799	20525.88	0.0029	P	1.4
3	☐	50.000	45.252	1179912.28	0.1647	P	1.4
4	☐	125.000	126.016	3226220.96	0.4586	A	1.9
5	☐	250.000	250.804	6554634.00	0.9127	A	0.2
6	☐	500.000	498.325	13045514.53	1.8135	A	0.6
7	☐	1000.000	1000.747	25749057.67	3.6419	A	0.4
8	☐			1784.59	0.0003	P	7.4

$$y = 0.0036 * x + 4.0690E-006$$

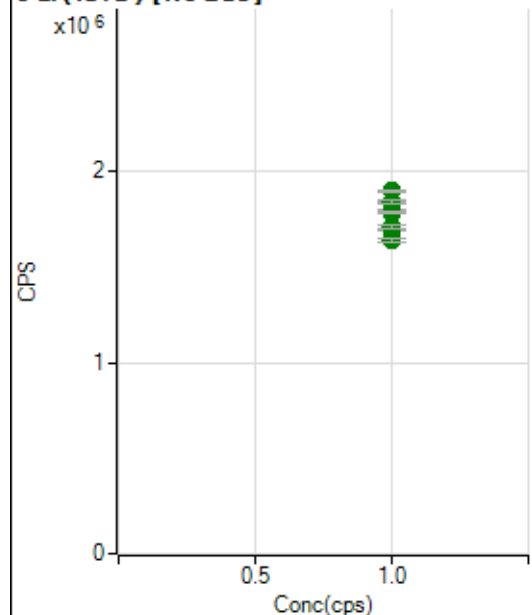
$$R = 1.0000$$

$$DL = 0.0003886$$

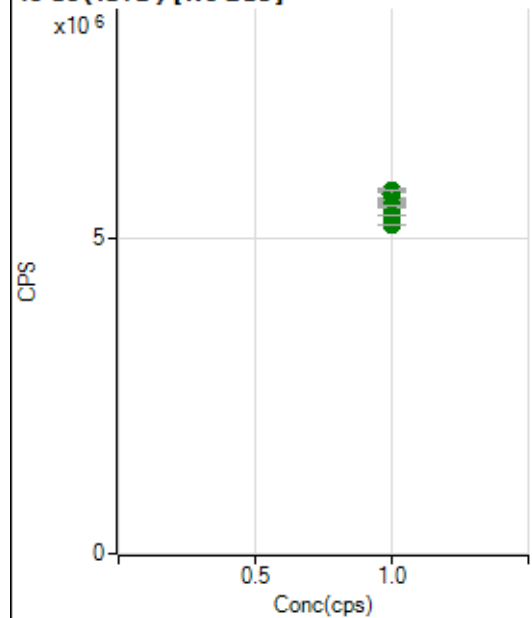
$$BEC = 0.001118$$

Weight: <None>

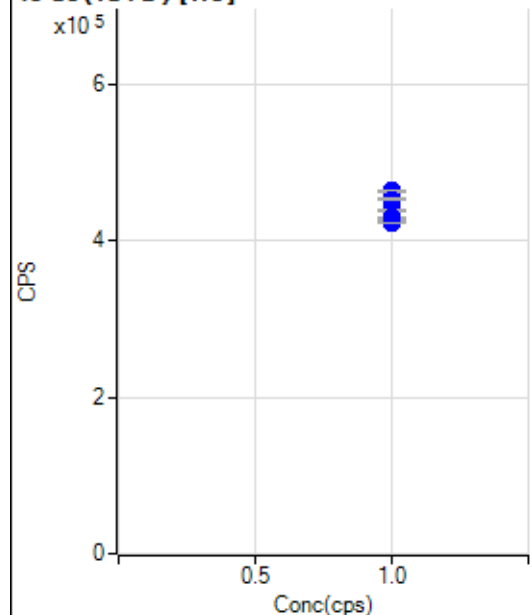
Min Conc: 0

6 Li (ISTD) [No Gas]

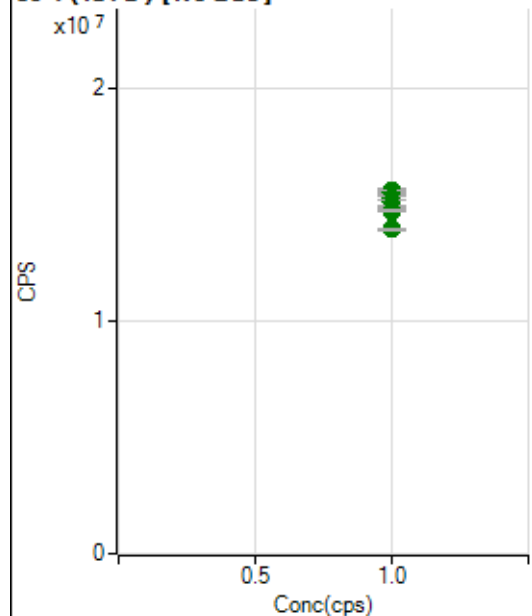
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1693208.38		A	0.3
2	☐	1.000		1642238.34		A	1.5
3	☐	1.000		1713611.42		A	1.0
4	☐	1.000		1793369.99		A	1.2
5	☐	1.000		1839447.35		A	0.8
6	☐	1.000		1900756.43		A	0.5
7	☐	1.000		1843932.96		A	1.4
8	☐	1.000		1785923.76		A	0.6

45 Sc (ISTD) [No Gas]

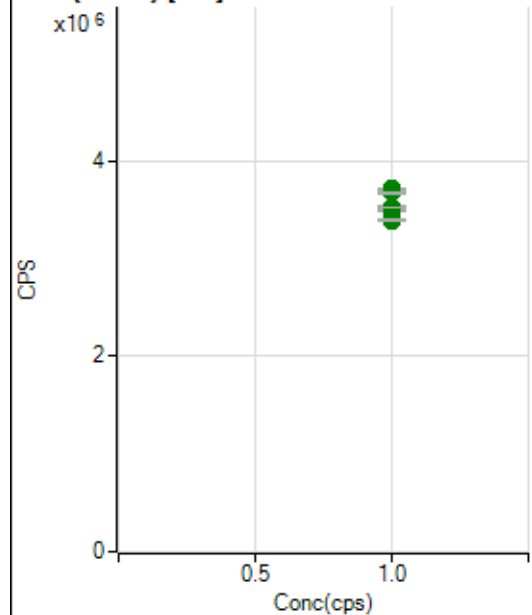
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5727577.69		A	0.8
2	☐	1.000		5735052.00		A	1.0
3	☐	1.000		5691846.72		A	2.4
4	☐	1.000		5576441.45		A	0.9
5	☐	1.000		5512813.25		A	1.2
6	☐	1.000		5490068.46		A	0.3
7	☐	1.000		5347251.86		A	0.4
8	☐	1.000		5203290.61		A	0.2

45 Sc (ISTD) [He]

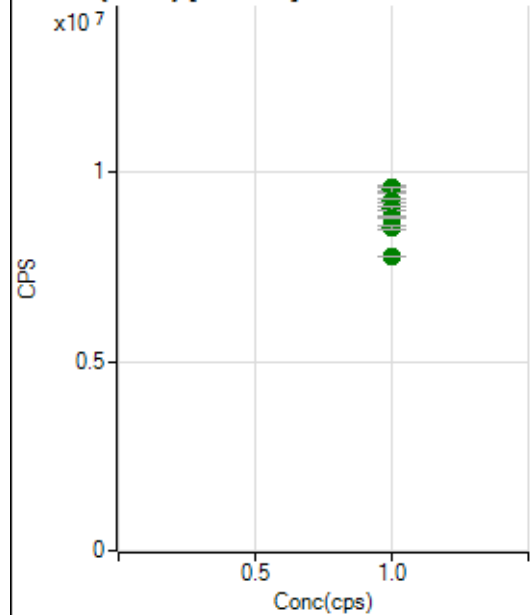
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		462071.78		P	0.7
2	☐	1.000		463399.21		P	0.6
3	☐	1.000		453012.36		P	0.5
4	☐	1.000		438745.68		P	0.8
5	☐	1.000		428665.14		P	0.5
6	☐	1.000		423890.13		P	0.8
7	☐	1.000		422040.01		P	0.3
8	☐	1.000		422649.32		P	0.1

89 Y (ISTD) [No Gas]

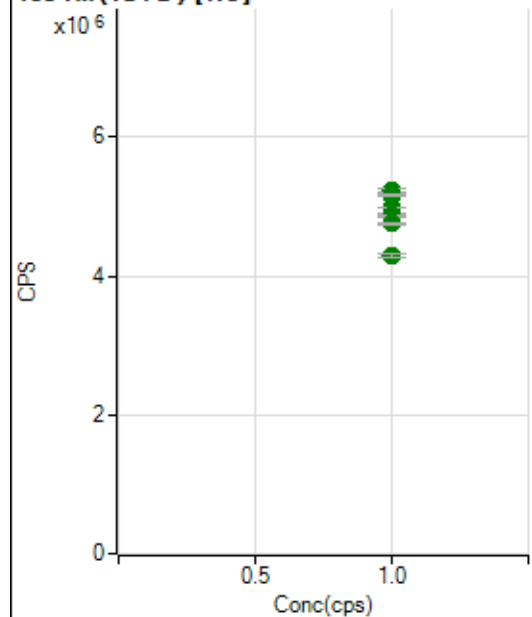
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		15603594.91		A	1.0
2	☐	1.000		15612658.79		A	1.0
3	☐	1.000		15580967.68		A	1.2
4	☐	1.000		15297992.00		A	0.7
5	☐	1.000		15119920.05		A	1.4
6	☐	1.000		14937571.30		A	0.8
7	☐	1.000		14741268.11		A	0.6
8	☐	1.000		13974019.93		A	0.5

89 Y (ISTD) [He]

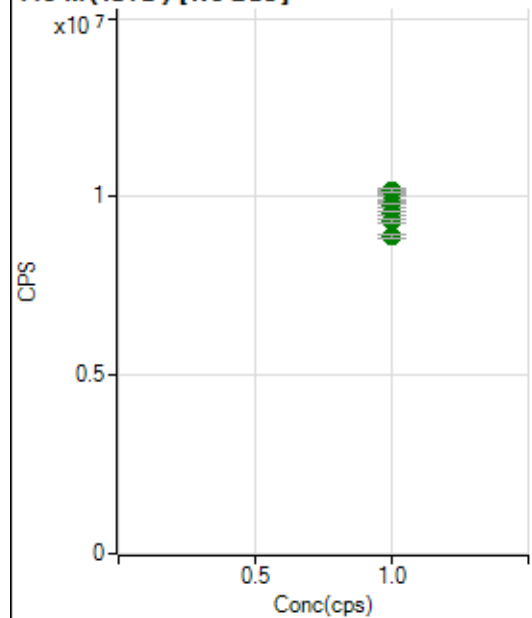
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3681437.13		A	0.7
2	☐	1.000		3710938.35		A	0.7
3	☐	1.000		3670406.09		A	0.9
4	☐	1.000		3516683.66		A	1.4
5	☐	1.000		3490763.49		A	0.3
6	☐	1.000		3529469.95		A	1.2
7	☐	1.000		3521873.11		A	0.1
8	☐	1.000		3390995.26		A	0.8

103 Rh (ISTD) [No Gas]

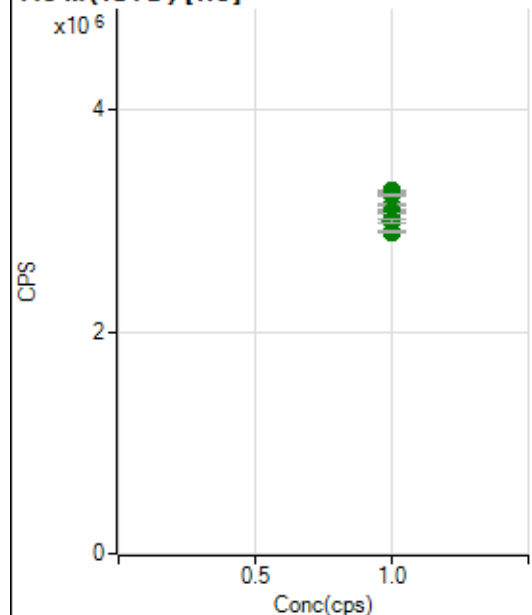
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		9561580.41		A	0.9
2	☐	1.000		9577078.40		A	1.6
3	☐	1.000		9531046.32		A	1.5
4	☐	1.000		9253472.71		A	0.9
5	☐	1.000		9019205.97		A	1.1
6	☐	1.000		8801156.75		A	0.4
7	☐	1.000		8533449.25		A	0.9
8	☐	1.000		7758673.71		A	0.1

103 Rh (ISTD) [He]

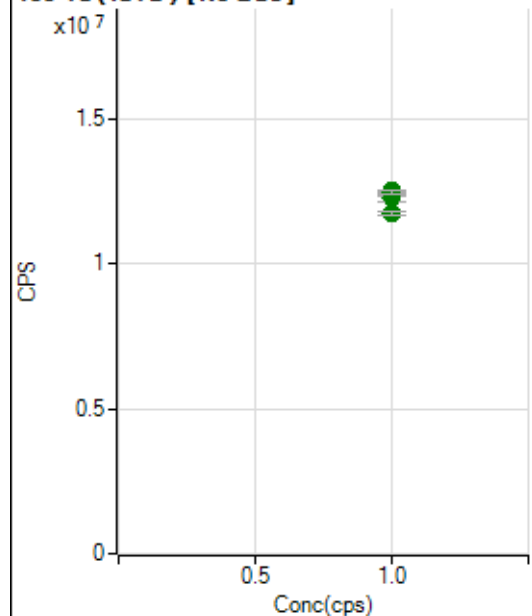
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5225462.39		A	1.2
2	☐	1.000		5167055.06		A	1.0
3	☐	1.000		5159832.39		A	0.6
4	☐	1.000		4989920.69		A	0.4
5	☐	1.000		4885258.99		A	0.6
6	☐	1.000		4862175.62		A	0.3
7	☐	1.000		4755654.09		A	0.4
8	☐	1.000		4282611.67		A	1.2

115 In (ISTD) [No Gas]

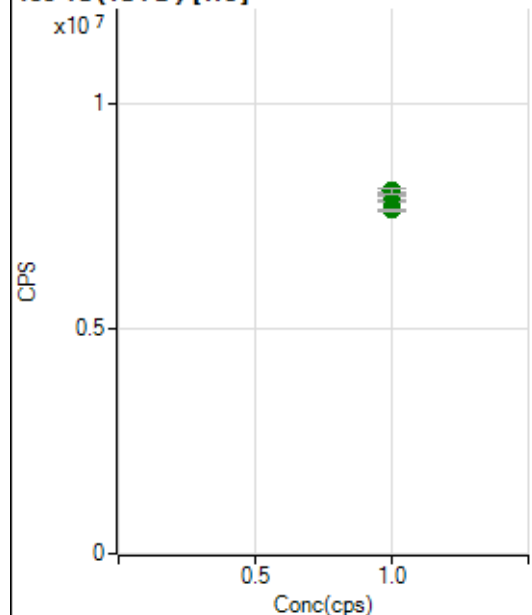
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		10123978.82		A	0.8
2	☐	1.000		10109424.52		A	1.6
3	☐	1.000		10162250.72		A	1.2
4	☐	1.000		9876067.14		A	0.5
5	☐	1.000		9740200.11		A	1.3
6	☐	1.000		9536710.45		A	0.6
7	☐	1.000		9313594.26		A	0.8
8	☐	1.000		8902658.69		A	1.1

115 In (ISTD) [He]

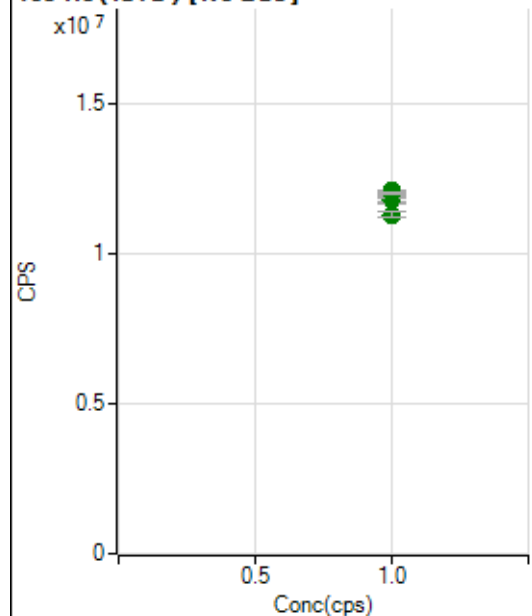
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3269356.36		A	0.3
2	☐	1.000		3234170.68		A	0.5
3	☐	1.000		3231918.29		A	0.4
4	☐	1.000		3139555.54		A	0.6
5	☐	1.000		3091469.20		A	0.5
6	☐	1.000		3067121.13		A	0.1
7	☐	1.000		2999012.05		A	1.1
8	☐	1.000		2902067.83		A	1.0

159 Tb (ISTD) [No Gas]

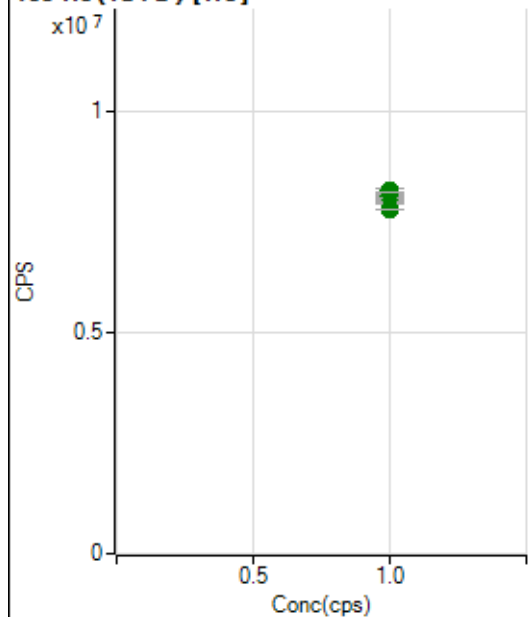
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		12410226.20		A	1.7
2	☐	1.000		12264403.71		A	2.1
3	☐	1.000		12464516.62		A	0.8
4	☐	1.000		12344825.93		A	0.3
5	☐	1.000		12429992.04		A	0.7
6	☐	1.000		12505888.56		A	0.3
7	☐	1.000		12475920.65		A	0.8
8	☐	1.000		11738328.85		A	1.1

159 Tb (ISTD) [He]

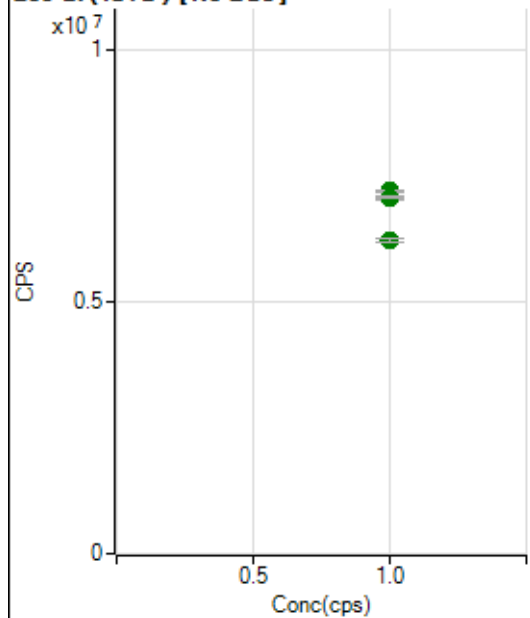
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7993243.56		A	0.6
2	☐	1.000		7928156.20		A	0.3
3	☐	1.000		7977765.16		A	0.1
4	☐	1.000		7836142.66		A	0.4
5	☐	1.000		7980018.35		A	0.8
6	☐	1.000		7951859.19		A	0.4
7	☐	1.000		8049155.29		A	1.3
8	☐	1.000		7618986.76		A	0.3

165 Ho (ISTD) [No Gas]

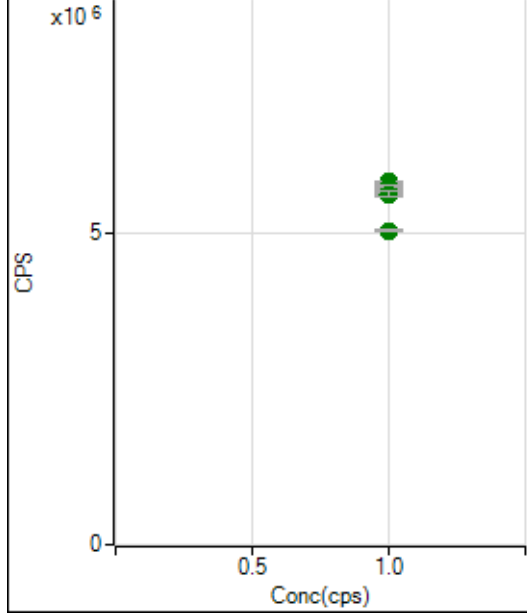
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		11832696.07		A	1.2
2	☐	1.000		11809890.80		A	1.9
3	☐	1.000		11939074.13		A	0.5
4	☐	1.000		11896824.13		A	0.3
5	☐	1.000		12056330.66		A	0.4
6	☐	1.000		12112947.73		A	0.5
7	☐	1.000		12063218.99		A	0.6
8	☐	1.000		11317372.47		A	1.4

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		8020750.78		A	0.4
2	☐	1.000		8020369.47		A	0.6
3	☐	1.000		8105765.37		A	0.4
4	☐	1.000		7930525.57		A	0.8
5	☐	1.000		8111433.42		A	1.2
6	☐	1.000		8210758.00		A	1.3
7	☐	1.000		8187837.93		A	0.1
8	☐	1.000		7789738.91		A	0.3

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7091092.18		A	1.7
2	☐	1.000		7050959.83		A	1.1
3	☐	1.000		7164988.78		A	0.4
4	☐	1.000		7035753.16		A	0.8
5	☐	1.000		7181520.38		A	0.4
6	☐	1.000		7193716.14		A	0.6
7	☐	1.000		7070446.77		A	0.6
8	☐	1.000		6216953.59		A	1.8

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5810793.53		A	0.7
2	☐	1.000		5761704.98		A	1.3
3	☐	1.000		5816288.04		A	0.7
4	☐	1.000		5633371.31		A	0.6
5	☐	1.000		5728405.82		A	0.9
6	☐	1.000		5739227.97		A	0.6
7	☐	1.000		5624567.83		A	1.3
8	☐	1.000		5031148.29		A	0.6

US EPA Tune Check Report

Operator Name Jaswal

Acq/Data Batch D:\Agilent\ICPMH\1\DATA\IP7081424MS1.b

Acq. Date-Time 2024-08-14 14:04:47

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		7652	76516.93			1.039	5.000
24		116426	1164262.83			1.173	5.000
25		15536	155360.27			0.760	5.000
26		18556	185555.34			0.480	5.000
59		74404	744039.50			0.330	5.000
113		10641	106413.54			0.614	5.000
115		127826	1278263.88			0.680	5.000
206		24450	244497.52			0.289	5.000
207		22016	220163.24			0.206	5.000
208		51912	519119.97			0.142	5.000
220		1	6.70			42.413	

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

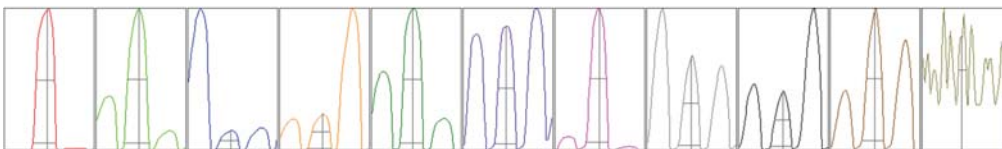
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	7752	7713	7635	7561	7597
24	114292	117882	116142	116565	117251
25	15345	15554	15523	15655	15603
26	18413	18523	18601	18624	18616
59	74101	74199	74455	74648	74617
113	10681	10687	10652	10659	10527
115	128612	128204	127720	126379	128217
206	24514	24351	24480	24401	24502
207	22080	21972	21980	22006	22044
208	51839	52005	51948	51934	51835

US EPA Tune Check Report

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
220	0	1	1	1	1

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	12658.25	8.95	8.90 - 9.10	
24	195975.78	23.95	23.90 - 24.10	
25	26234.96	24.95	24.90 - 25.10	
26	30468.97	25.95	25.90 - 26.10	
59	123195.46	58.90	58.90 - 59.10	
113	19826.95	112.95	112.90 - 113.10	
115	240570.40	115.00	114.90 - 115.10	
206	49093.48	206.00	205.90 - 206.10	
207	44287.71	207.00	206.90 - 207.10	
208	105091.20	208.00	207.90 - 208.10	
220	1.00	219.85	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.63	0.777	0.900	
24	0.65	0.831	0.900	
25	0.62	0.783	0.900	
26	0.62	0.784	0.900	
59	0.63	0.781	0.900	
113	0.54	0.738	0.900	
115	0.53	0.746	0.900	
206	0.51	0.738	0.900	
207	0.50	0.731	0.900	
208	0.51	0.746	0.900	
220	0.25			

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode ---

Nebulizer Gas 0.82 L/min

Dilution Gas 0.40 L/min

US EPA Tune Check Report

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

Lens Parameters

Extract 1	0.0 V	Omega Lens	7.6 V	Deflect	16.0 V
Extract 2	-120.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-65 V	Cell Exit	-50 V		

Cell Parameters

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

QP Parameters

Mass Gain	137	Axis Gain	0.9979	QP Bias	-3.0 V
Mass Offset	129	Axis Offset	0.08		

Hardware Settings

Torch

Torch H	0.0 mm	Torch V	0.7 mm
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EM

Discriminator	4.7 mV	Analog HV	2323 V	Pulse HV	1462 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		23601	236008.03			0.258	
89		24082	240815.95			0.244	
205		27159	271590.46			0.589	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	23666	23584	23552	23664	23538
89	24151	24114	23995	24089	24059
205	27402	27138	27025	27219	27012

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

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

Lens Parameters

Extract 1	0.0 V	Omega Lens	9.3 V	Deflect	4.0 V
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US EPA Tune Check Report

Extract 2	-160.0 V	Cell Entrance	-40 V	Plate Bias	-60 V
Omega Bias	-80 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	137	Axis Gain	0.9979	QP Bias	-13.0 V
Mass Offset	129	Axis Offset	0.08		
Hardware Settings					
Torch					
Torch H	0.0 mm	Torch V	0.7 mm		
EM					
Discriminator	4.7 mV	Analog HV	2323 V	Pulse HV	1462 V