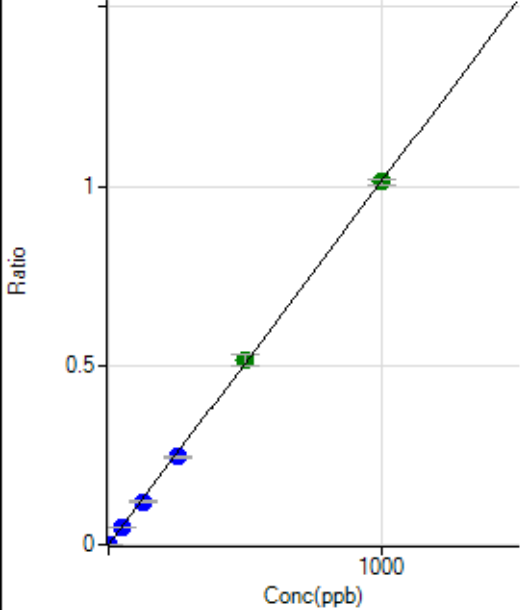


Batch Folder: D:\Agilent\ICPMH\1\DATA\P7110824MS3.b\
Analysis File: P7110824MS3.batch.bin
DA Date-Time: 2024-11-11 00:28:03
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.d	S00	2024-11-09 21:53:15
2	006CALS.d	S02	2024-11-09 21:59:47
3	007CALS.d	S03	2024-11-09 22:03:02
4	008CALS.d	S04	2024-11-09 22:05:57
5	009CALS.d	S05	2024-11-09 22:08:41
6	010CALS.d	S06	2024-11-09 22:11:27
7	011CALS.d	S07	2024-11-09 22:14:11
8	012CALS.d	S08	2024-11-09 22:16:57

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	18.52	0.0000	P	45.0
2	☐	1.000	1.030	2602.11	0.0011	P	6.9
3	☐	50.000	49.020	119090.91	0.0497	P	1.7
4	☐	125.000	118.053	293322.73	0.1197	P	5.1
5	☐	250.000	242.164	576488.33	0.2455	P	1.3
6	☐	500.000	508.090	1111636.19	0.5150	A	5.7
7	☐	1000.000	998.832	2114640.24	1.0124	A	1.4
8	☐			333.34	0.0002	P	32.9

$y = 0.0010 * x + 7.7362E-006$

$R = 0.9999$

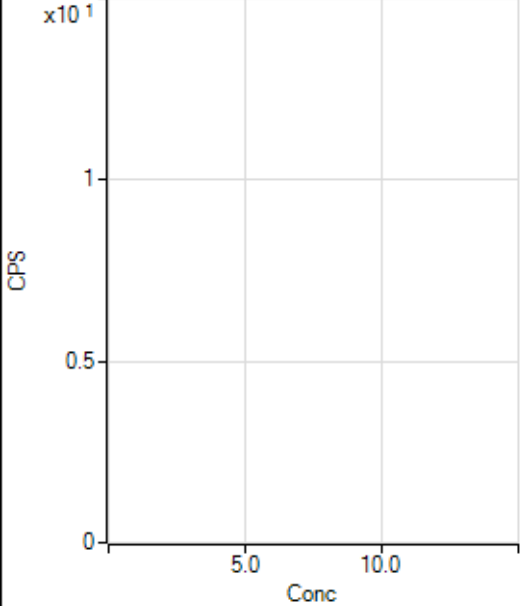
$DL = 0.01031$

$BEC = 0.007633$

Weight: <None>

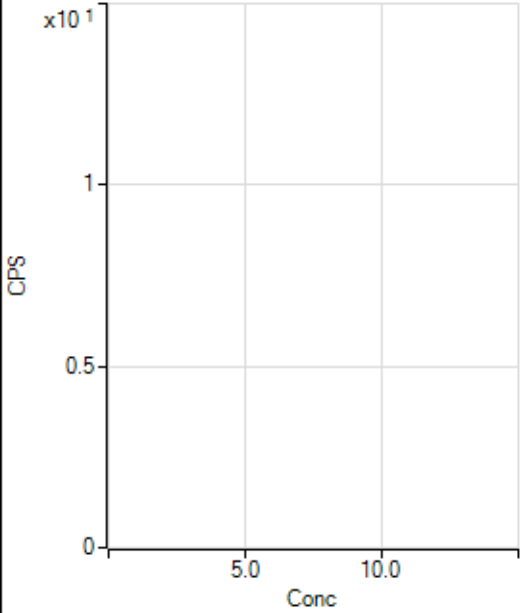
Min Conc: 0

12 C [No Gas] No available calibration points



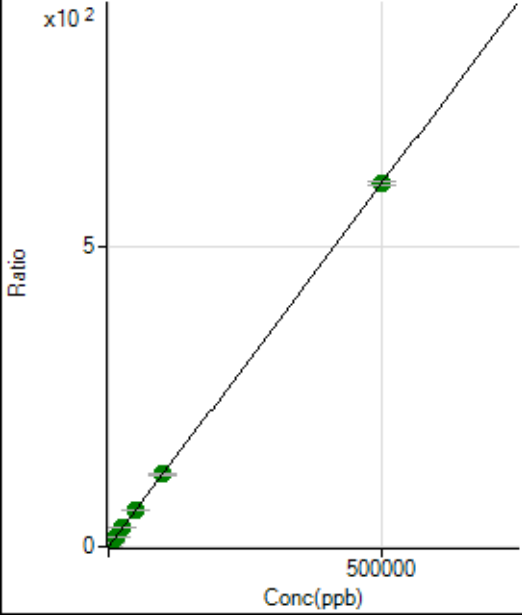
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐						
2	☐						
3	☐						
4	☐						
5	☐						
6	☐						
7	☐						
8	☐						

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	32007.72	0.0259	P	1.8
2	☐	500.000	511.046	805846.99	0.6449	P	0.8
3	☐	5000.000	5430.628	7888091.34	6.6038	A	0.2
4	☐	12500.000	13574.144	19606182.63	16.4678	A	0.3
5	☐	25000.000	26966.052	39002927.75	32.6888	A	0.9
6	☐	50000.000	51072.762	77045578.85	61.8883	A	0.9
7	☐	100000.00	99779.506	153282326.61	120.8849	A	1.9
8	☐	500000.00	499807.34	771032335.18	605.4227	A	0.9

$y = 0.0012 * x + 0.0259$

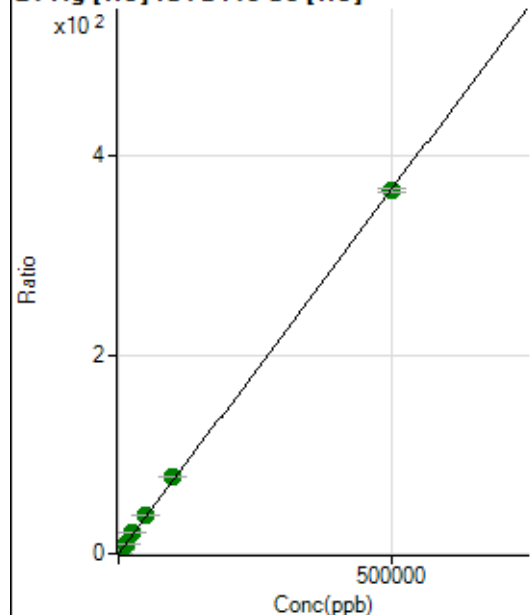
$R = 1.0000$

$DL = 1.185$

$BEC = 21.41$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	2783.61	0.0023	P	1.6
2	☐	500.000	553.650	509297.46	0.4076	P	0.7
3	☐	5000.000	5622.070	4919187.22	4.1184	A	1.0
4	☐	12500.000	14248.615	12422725.79	10.4343	A	0.7
5	☐	25000.000	28163.391	24605225.74	20.6219	A	1.1
6	☐	50000.000	53295.615	48579468.17	39.0222	A	0.8
7	☐	100000.00	106403.35	98788236.31	77.9046	A	0.9
8	☐	500000.00	498181.60	464541673.08	364.7419	A	0.9

$$y = 7.3214\text{E-}004 * x + 0.0023$$

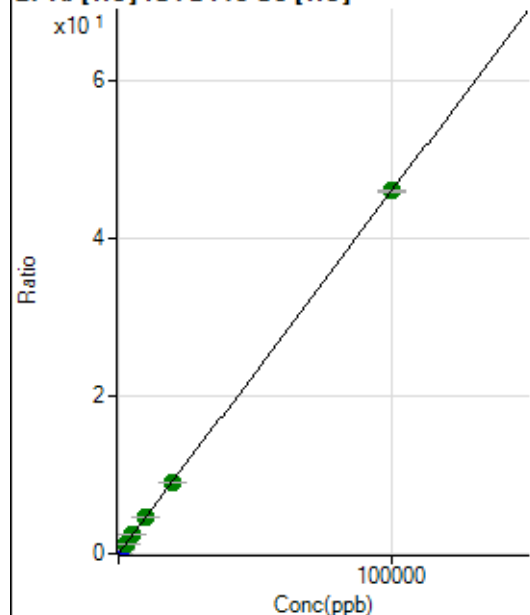
$$R = 0.9999$$

$$DL = 0.1468$$

$$BEC = 3.081$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	227.78	0.0002	P	6.6
2	☐	20.000	19.834	11625.59	0.0093	P	0.9
3	☐	1000.000	1125.754	618517.03	0.5178	P	0.6
4	☐	2500.000	2627.812	1438783.36	1.2085	A	0.9
5	☐	5000.000	5267.602	2890188.95	2.4223	A	1.1
6	☐	10000.000	9911.741	5674075.75	4.5578	A	0.5
7	☐	20000.000	19559.843	11405329.00	8.9941	A	0.9
8	☐	100000.00	100079.02	58605606.90	46.0181	A	0.8

$$y = 4.5982\text{E-}004 * x + 1.8459\text{E-}004$$

$$R = 1.0000$$

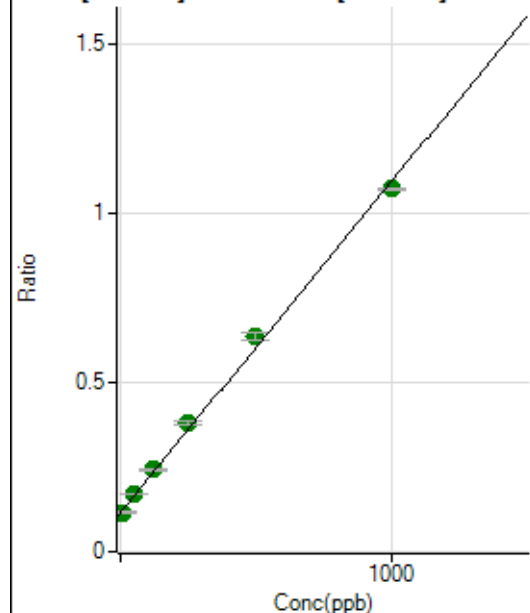
$$DL = 0.07906$$

$$BEC = 0.4014$$

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	1454527.79	0.1130	A	0.3
2	☐	10.000	3.034	1505496.40	0.1160	A	1.5
3	☐	50.000	59.861	2137123.99	0.1719	A	1.3
4	☐	125.000	131.855	3116328.25	0.2427	A	3.2
5	☐	250.000	273.459	4748556.14	0.3819	A	2.2
6	☐	500.000	533.689	7999244.40	0.6378	A	3.6
7	☐	1000.000	976.010	13781772.57	1.0728	A	0.5
8	☐			1627939.66	0.1384	A	2.2

$$y = 9.8333\text{E-}004 * x + 0.1130$$

$$R = 0.9987$$

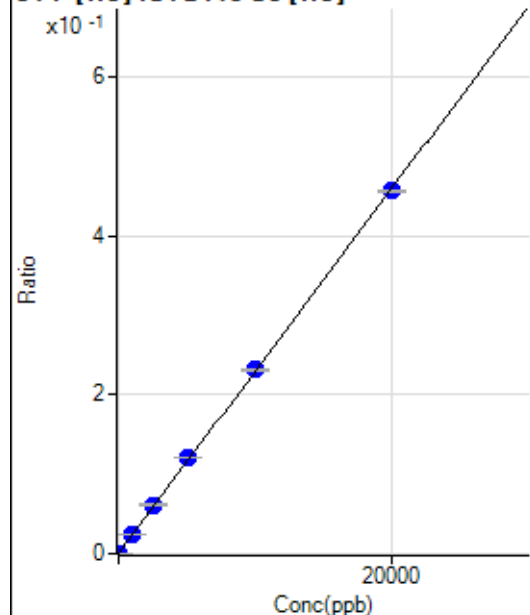
$$DL = 1.196$$

$$BEC = 115$$

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	-14.724	476.68	0.0004	P	5.3
2	☐	0.000	14.724	1325.63	0.0011	P	1.4
3	☐	1000.000	1052.144	29653.23	0.0248	P	2.0
4	☐	2500.000	2657.808	73348.92	0.0616	P	0.8
5	☐	5000.000	5273.569	145005.86	0.1215	P	0.8
6	☐	10000.000	10056.515	287700.30	0.2311	P	0.5
7	☐	20000.000	19881.017	578445.23	0.4562	P	0.8
8	☐			808.92	0.0006	P	10.1

$$y = 2.2908\text{E-}005 * x + 7.2359\text{E-}004$$

$$R = 0.9999$$

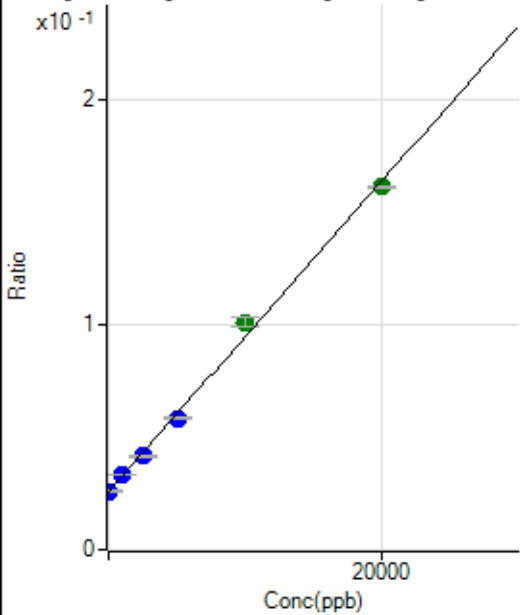
$$DL = 2.313$$

$$BEC = 31.59$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	-29.884	329736.50	0.0256	P	0.6
2	☐	0.000	29.884	337888.32	0.0260	P	0.7
3	☐	1000.000	1083.129	414043.10	0.0333	P	2.0
4	☐	2500.000	2293.655	534969.12	0.0417	P	2.7
5	☐	5000.000	4719.685	726040.56	0.0584	P	0.8
6	☐	10000.000	10911.705	1268238.84	0.1011	A	3.8
7	☐	20000.000	19635.863	2072582.36	0.1613	A	0.4
8	☐			265050.76	0.0225	P	3.0

$y = 6.9004E-006 * x + 0.0258$

R = 0.9983

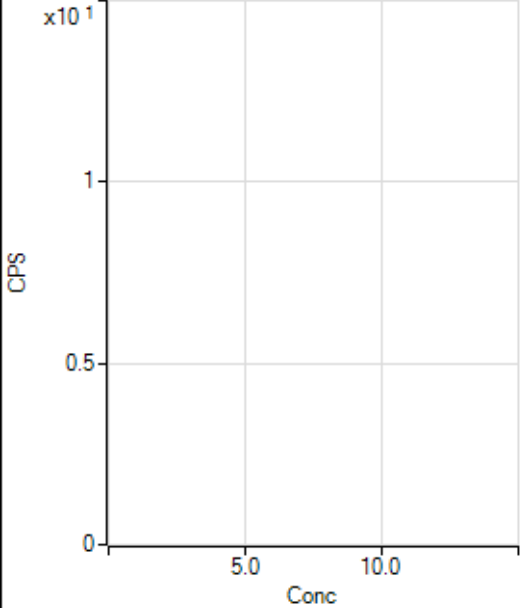
DL = 73.41

BEC = 3744

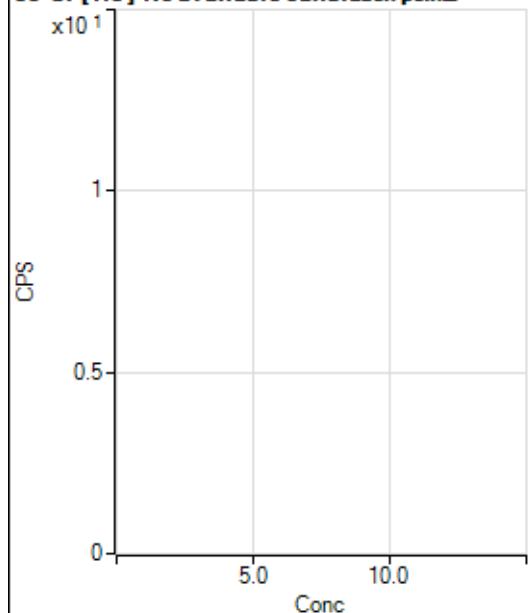
Weight: <None>

Min Conc: 0

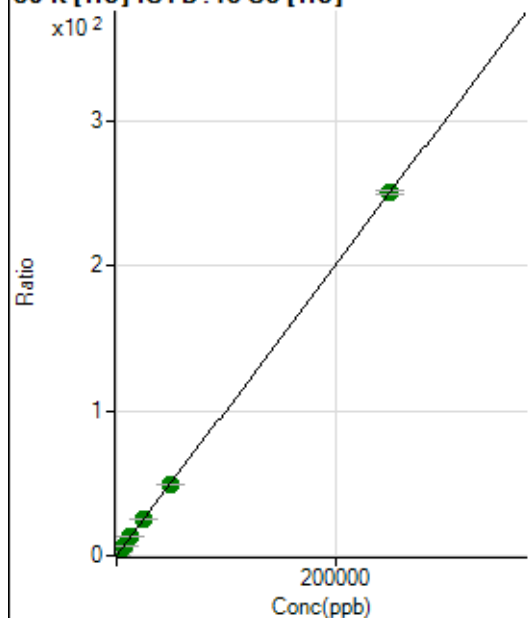
35 Cl [No Gas] No available calibration points



	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	89847.39	0.0728	P	0.5
2	☐	500.000	514.736	733204.16	0.5868	P	0.8
3	☐	2500.000	2547.648	3125635.30	2.6168	A	0.7
4	☐	6250.000	6347.393	7632715.37	6.4111	A	1.2
5	☐	12500.000	12861.089	15410311.85	12.9154	A	0.5
6	☐	25000.000	24749.187	30857602.87	24.7865	A	0.1
7	☐	50000.000	48795.310	61879619.08	48.7981	A	0.9
8	☐	250000.00	250245.02	318344844.14	249.9587	A	1.1

$$y = 9.9856E-004 * x + 0.0728$$

$$R = 1.0000$$

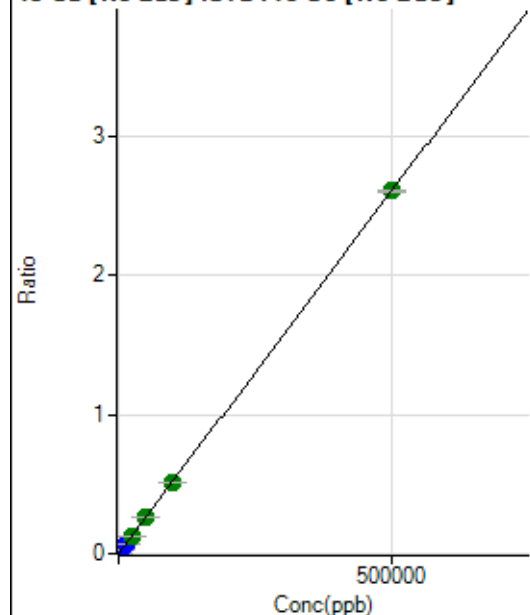
$$DL = 1.171$$

$$BEC = 72.92$$

Weight: <None>

Min Conc: 0

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	823.37	0.0001	P	32.3
2	☐	500.000	516.952	35765.45	0.0028	P	1.1
3	☐	5000.000	5114.975	331899.36	0.0267	P	3.2
4	☐	12500.000	12454.030	833556.75	0.0649	P	3.9
5	☐	25000.000	24830.623	1608470.93	0.1294	A	2.4
6	☐	50000.000	50127.137	3274726.38	0.2611	A	3.6
7	☐	100000.00	98570.122	6595722.05	0.5134	A	1.1
8	☐	500000.00	500281.71	30666555.66	2.6055	A	0.9

$$y = 5.2079\text{E-}006 * x + 6.4058\text{E-}005$$

$$R = 1.0000$$

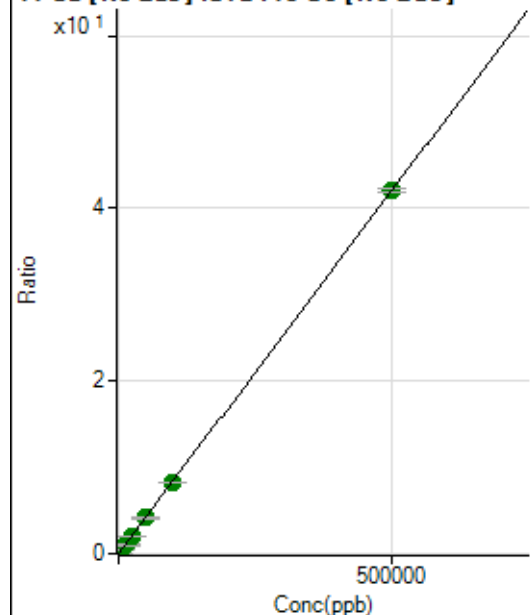
$$DL = 11.9$$

$$BEC = 12.3$$

Weight: <None>

Min Conc: 0

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	42052.17	0.0033	P	9.6
2	☐	500.000	517.232	606411.92	0.0467	P	0.2
3	☐	5000.000	4882.663	5140825.03	0.4136	A	2.7
4	☐	12500.000	11982.319	12970570.64	1.0102	A	3.3
5	☐	25000.000	24883.073	26035846.00	2.0942	A	1.5
6	☐	50000.000	49966.228	52693763.66	4.2020	A	4.1
7	☐	100000.00	99134.243	107062527.29	8.3337	A	0.3
8	☐	500000.00	500196.47	494708010.41	42.0357	A	1.1

$$y = 8.4032\text{E-}005 * x + 0.0033$$

$$R = 1.0000$$

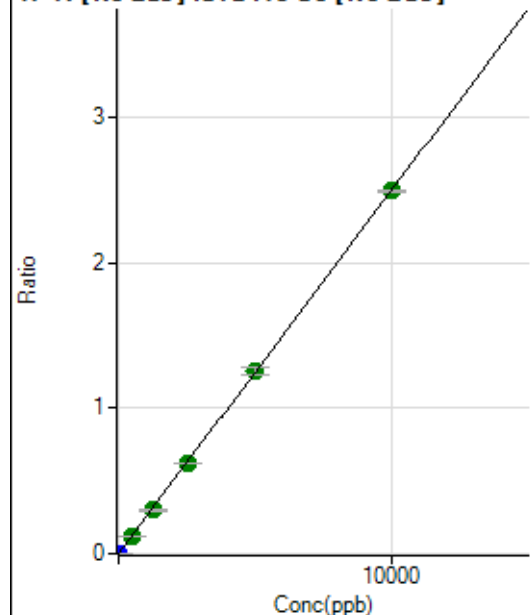
$$DL = 11.18$$

$$BEC = 38.91$$

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	171.12	0.0000	P	18.2
2	☐	5.000	4.899	16051.93	0.0012	P	1.2
3	☐	500.000	495.816	1539516.47	0.1239	A	2.7
4	☐	1250.000	1208.299	3874881.85	0.3018	A	4.0
5	☐	2500.000	2489.368	7730112.66	0.6218	A	0.6
6	☐	5000.000	5042.799	15793078.93	1.2595	A	4.6
7	☐	10000.000	9986.680	32044549.52	2.4944	A	0.5
8	☐			3966.23	0.0003	P	49.0

$$y = 2.4977\text{E-}004 * x + 1.3309\text{E-}005$$

$$R = 1.0000$$

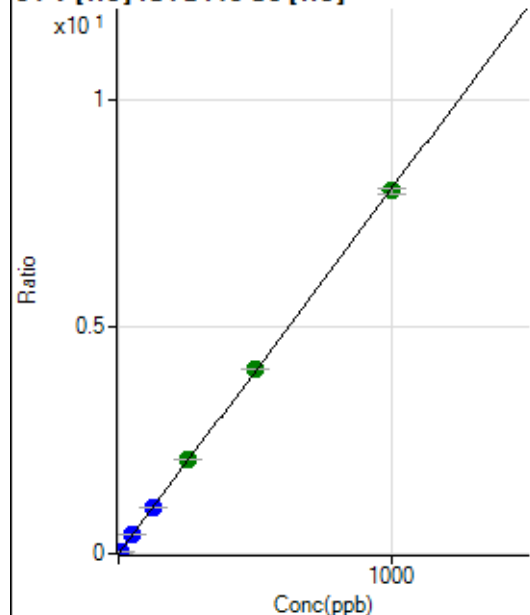
$$DL = 0.02917$$

$$BEC = 0.05329$$

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	25.55	0.0000	P	27.1
2	☐	5.000	5.095	51311.27	0.0411	P	1.4
3	☐	50.000	50.693	487793.97	0.4084	P	1.0
4	☐	125.000	126.644	1214641.95	1.0202	P	0.5
5	☐	250.000	258.530	2484988.92	2.0826	A	0.5
6	☐	500.000	506.257	5077044.96	4.0782	A	0.8
7	☐	1000.000	994.498	10158675.89	8.0113	A	1.5
8	☐			1894.58	0.0015	P	3.6

$$y = 0.0081 * x + 2.0707\text{E-}005$$

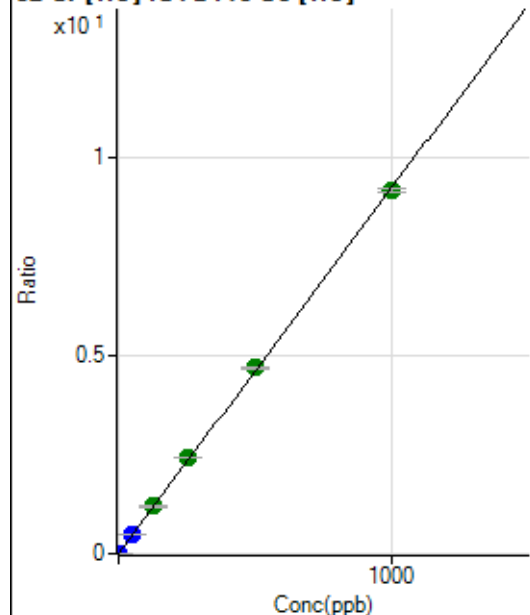
$$R = 0.9999$$

$$DL = 0.002092$$

$$BEC = 0.002571$$

Weight: <None>

Min Conc: 0

52 Cr [He] ISTD:45 Sc [He]

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	1526.76	0.0012	P	2.2
2	☐	2.000	2.094	25656.31	0.0205	P	1.1
3	☐	50.000	51.600	569416.09	0.4767	P	0.7
4	☐	125.000	129.088	1417731.16	1.1908	A	0.6
5	☐	250.000	264.105	2905314.75	2.4349	A	0.4
6	☐	500.000	507.416	5822516.30	4.6770	A	0.4
7	☐	1000.000	992.174	11595073.85	9.1439	A	1.0
8	☐			36442.90	0.0286	P	0.1

$$y = 0.0092 * x + 0.0012$$

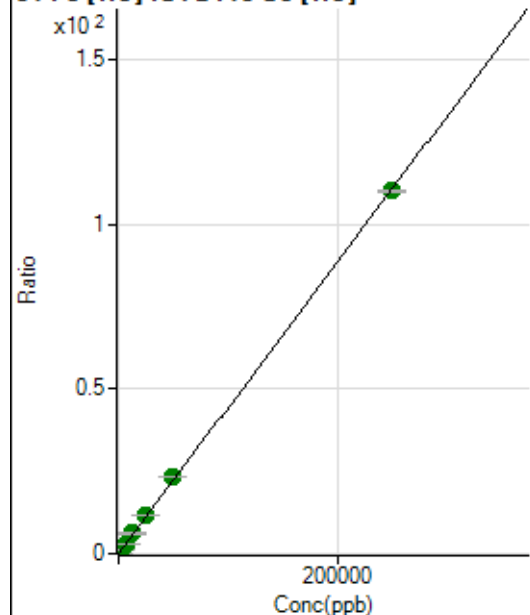
$$R = 0.9998$$

$$DL = 0.008918$$

$$BEC = 0.1343$$

Weight: <None>

Min Conc: 0

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

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	5046.46	0.0041	P	3.2
2	☐	50.000	56.680	36408.43	0.0291	P	1.9
3	☐	2500.000	2758.309	1460963.83	1.2232	A	1.5
4	☐	6250.000	6869.678	3619603.66	3.0402	A	0.5
5	☐	12500.000	13872.238	7320160.79	6.1351	A	0.7
6	☐	25000.000	26929.168	14821990.33	11.9057	A	0.7
7	☐	50000.000	52389.939	29367300.12	23.1584	A	0.6
8	☐	250000.00	249242.40	140296129.02	110.1594	A	0.7

$$y = 4.4196E-004 * x + 0.0041$$

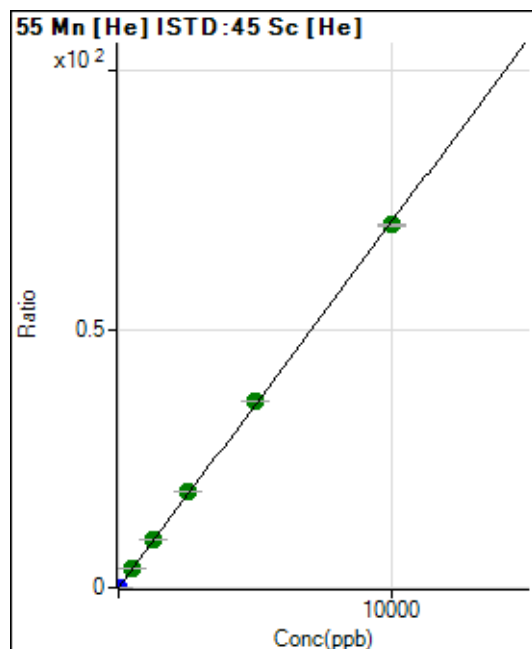
$$R = 0.9999$$

$$DL = 0.8853$$

$$BEC = 9.253$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	577.79	0.0005	P	17.4
2	☐	1.000	1.043	9804.36	0.0078	P	0.6
3	☐	500.000	514.782	4349140.11	3.6412	A	1.3
4	☐	1250.000	1290.690	10868532.34	9.1287	A	0.1
5	☐	2500.000	2625.894	22159297.45	18.5717	A	0.7
6	☐	5000.000	5086.834	44788084.33	35.9763	A	0.3
7	☐	10000.000	9919.284	88962822.01	70.1531	A	0.8
8	☐			43803.50	0.0344	P	1.4

$$y = 0.0071 * x + 4.6826E-004$$

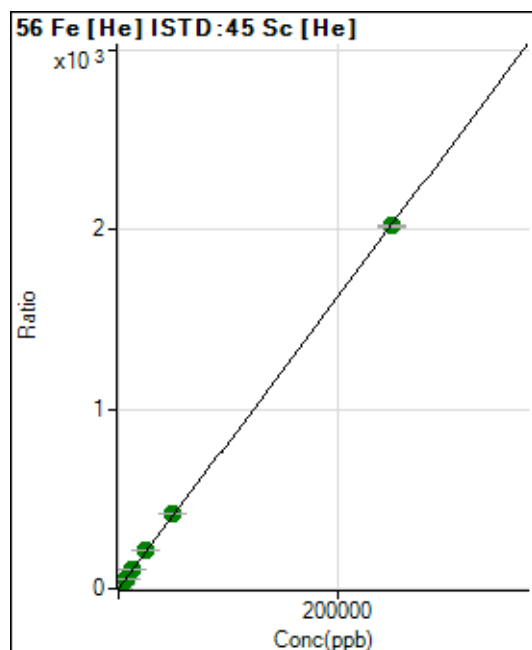
$$R = 0.9999$$

$$DL = 0.03466$$

$$BEC = 0.06621$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	33817.98	0.0274	P	1.2
2	☐	50.000	55.726	597587.19	0.4783	P	0.9
3	☐	2500.000	2714.441	26264938.50	21.9893	A	0.9
4	☐	6250.000	6798.637	65523116.25	55.0336	A	0.3
5	☐	12500.000	13665.662	131956302.48	110.5930	A	0.7
6	☐	25000.000	26597.348	267934538.23	215.2202	A	0.3
7	☐	50000.000	51729.475	530772325.42	418.5583	A	0.8
8	☐	250000.00	249420.22	2570083463.9	2,018.027	A	0.6

$$y = 0.0081 * x + 0.0274$$

$$R = 1.0000$$

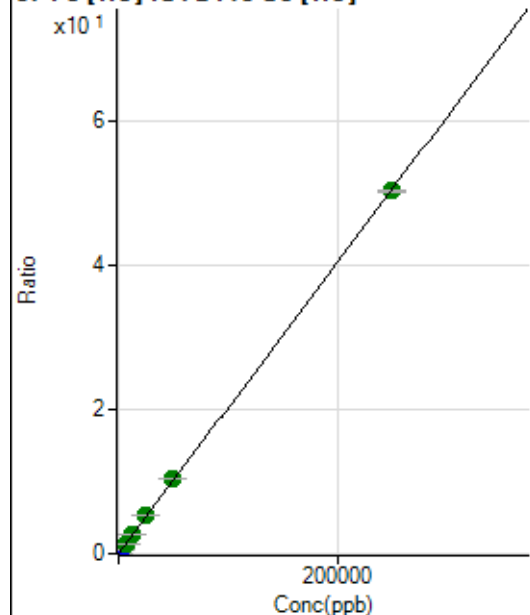
$$DL = 0.1173$$

$$BEC = 3.387$$

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	2152.40	0.0017	P	1.7
2	☐	50.000	57.499	16688.23	0.0134	P	1.8
3	☐	2500.000	2800.095	677505.70	0.5672	P	1.0
4	☐	6250.000	6755.913	1626444.66	1.3661	A	1.3
5	☐	12500.000	13677.288	3297689.08	2.7638	A	1.0
6	☐	25000.000	26344.480	6625519.76	5.3220	A	0.5
7	☐	50000.000	51481.655	13185164.53	10.3983	A	1.8
8	☐	250000.00	249494.70	64173511.82	50.3866	A	0.3

$$y = 2.0195\text{E-}004 * x + 0.0017$$

R = 1.0000

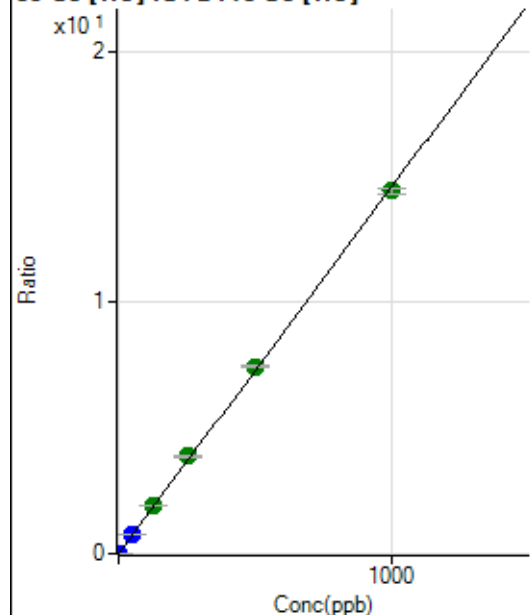
DL = 0.4363

BEC = 8.637

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	172.23	0.0001	P	18.6
2	☐	1.000	1.089	20011.24	0.0160	P	2.0
3	☐	50.000	51.981	905408.69	0.7580	P	0.6
4	☐	125.000	131.187	2277362.26	1.9128	A	0.9
5	☐	250.000	265.769	4623510.62	3.8750	A	1.1
6	☐	500.000	510.630	9268754.10	7.4451	A	0.7
7	☐	1000.000	989.870	18300475.70	14.4323	A	1.7
8	☐			47068.09	0.0370	P	0.9

$$y = 0.0146 * x + 1.3957\text{E-}004$$

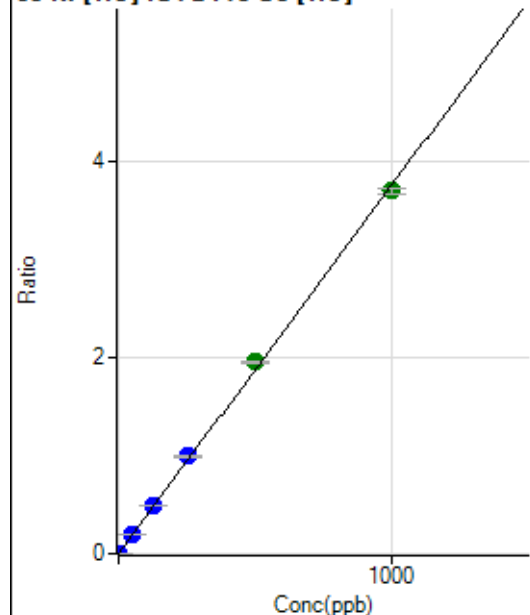
R = 0.9998

DL = 0.005331

BEC = 0.009572

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	151.12	0.0001	P	2.6
2	☐	1.000	1.085	5233.19	0.0042	P	2.4
3	☐	50.000	53.227	238445.00	0.1996	P	0.7
4	☐	125.000	131.959	589013.91	0.4947	P	0.4
5	☐	250.000	264.011	1180871.93	0.9897	P	0.4
6	☐	500.000	519.991	2426532.03	1.9491	A	0.5
7	☐	1000.000	985.470	4683974.89	3.6938	A	1.3
8	☐			17728.37	0.0139	P	1.7

$$y = 0.0037 * x + 1.2246E-004$$

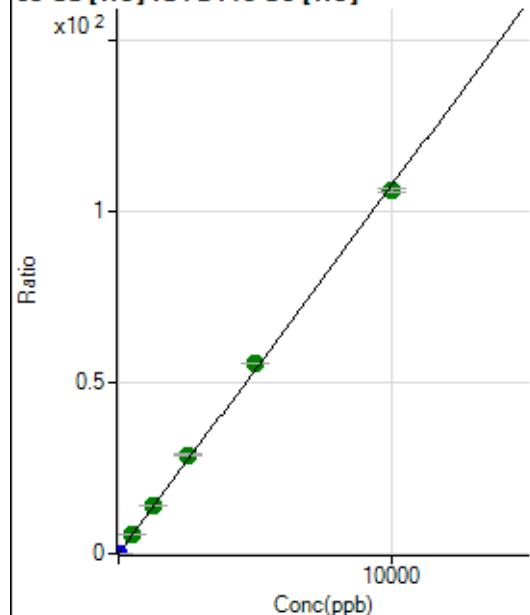
$$R = 0.9996$$

$$DL = 0.002513$$

$$BEC = 0.03267$$

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	1761.23	0.0014	P	1.5
2	☐	2.000	2.045	29235.21	0.0234	P	1.3
3	☐	500.000	534.440	6860136.50	5.7434	A	0.9
4	☐	1250.000	1328.234	16991716.00	14.2718	A	0.2
5	☐	2500.000	2683.790	34405604.76	28.8356	A	0.8
6	☐	5000.000	5166.396	69104316.19	55.5084	A	0.2
7	☐	10000.000	9859.353	134324011.33	105.9288	A	1.1
8	☐			115947.98	0.0910	P	1.1

$$y = 0.0107 * x + 0.0014$$

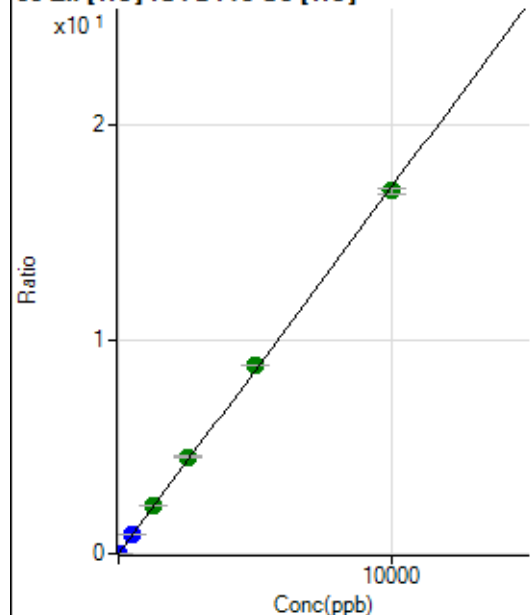
$$R = 0.9996$$

$$DL = 0.005993$$

$$BEC = 0.1328$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	918.93	0.0007	P	7.2
2	☐	2.000	5.428	12532.01	0.0100	P	2.4
3	☐	500.000	528.058	1079830.81	0.9040	P	0.8
4	☐	1250.000	1309.615	2668030.65	2.2410	A	1.1
5	☐	2500.000	2640.125	5389439.71	4.5170	A	0.9
6	☐	5000.000	5123.954	10912852.62	8.7658	A	0.4
7	☐	10000.000	9894.136	21462586.07	16.9257	A	1.3
8	☐			11176.48	0.0088	P	0.7

$$y = 0.0017 * x + 7.4468E-004$$

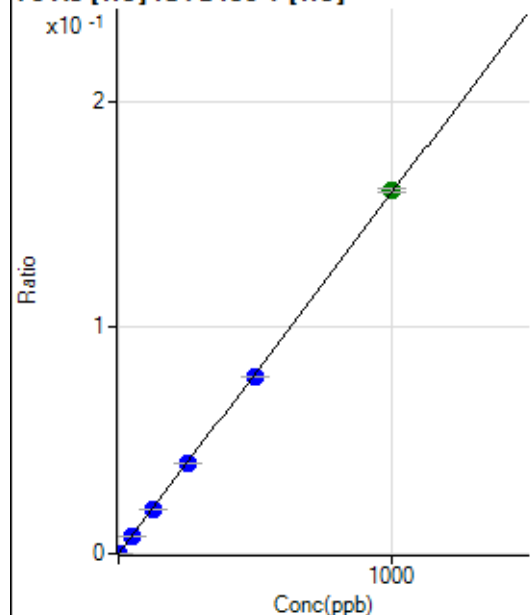
$$R = 0.9998$$

$$DL = 0.09379$$

$$BEC = 0.4353$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	14.44	0.0000	P	87.4
2	☐	1.000	1.076	1662.33	0.0002	P	1.4
3	☐	50.000	49.672	72839.69	0.0079	P	0.9
4	☐	125.000	122.995	182177.34	0.0196	P	0.6
5	☐	250.000	248.836	373127.29	0.0397	P	0.3
6	☐	500.000	490.261	760176.65	0.0782	P	0.9
7	☐	1000.000	1005.428	1556686.45	0.1603	A	0.9
8	☐			834.48	0.0001	P	4.5

$$y = 1.5946E-004 * x + 1.5279E-006$$

$$R = 0.9999$$

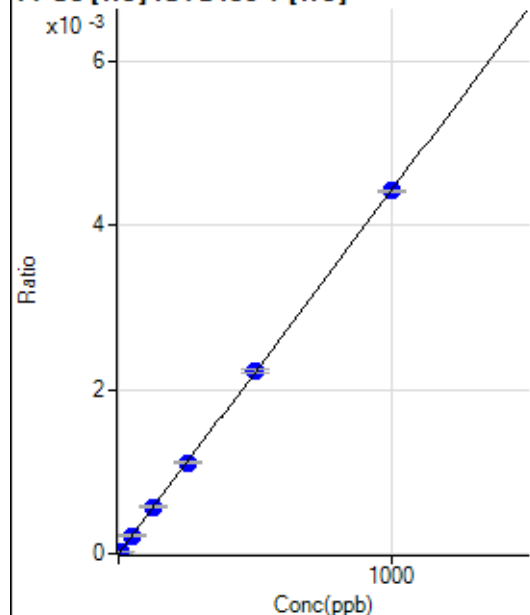
$$DL = 0.02511$$

$$BEC = 0.009582$$

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	5.670	242.23	0.0000	P	7.4
3	☐	50.000	49.479	2014.60	0.0002	P	3.9
4	☐	125.000	129.467	5324.33	0.0006	P	0.7
5	☐	250.000	250.305	10420.41	0.0011	P	2.1
6	☐	500.000	502.089	21613.64	0.0022	P	2.8
7	☐	1000.000	998.344	42911.88	0.0044	P	0.2
8	☐			14.44	0.0000	P	80.4

$$y = 4.4267\text{E-}006 * x + 1.1746\text{E-}007$$

$$R = 1.0000$$

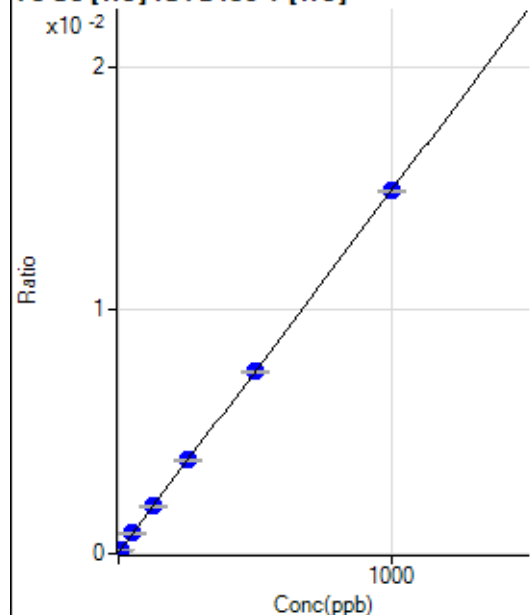
$$DL = 0.1379$$

$$BEC = 0.02654$$

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	567.80	0.0001	P	4.8
2	☐	5.000	5.449	1351.18	0.0001	P	1.2
3	☐	50.000	51.873	7633.14	0.0008	P	1.8
4	☐	125.000	127.166	18094.49	0.0019	P	1.6
5	☐	250.000	254.376	36081.73	0.0038	P	2.5
6	☐	500.000	499.383	72691.47	0.0075	P	1.1
7	☐	1000.000	998.848	144607.88	0.0149	P	0.4
8	☐			745.59	0.0001	P	11.8

$$y = 1.4850\text{E-}005 * x + 5.9768\text{E-}005$$

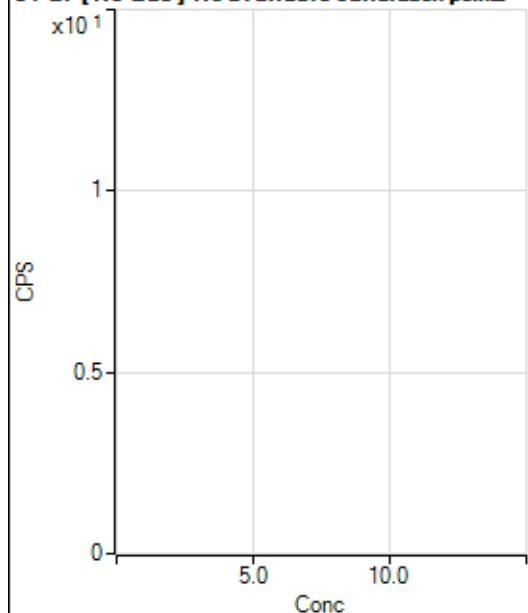
$$R = 1.0000$$

$$DL = 0.5736$$

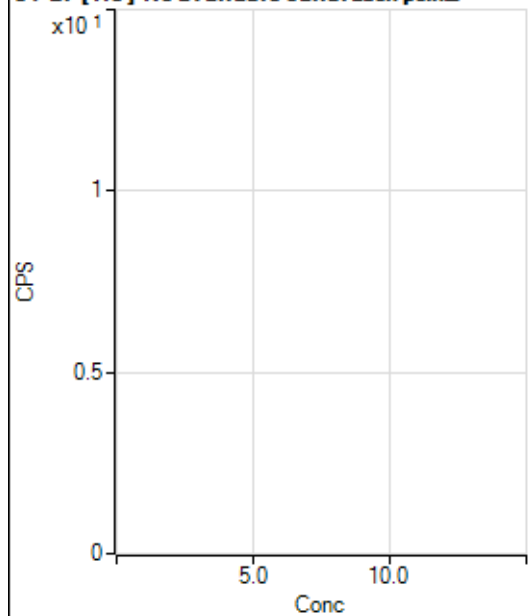
$$BEC = 4.025$$

Weight: <None>

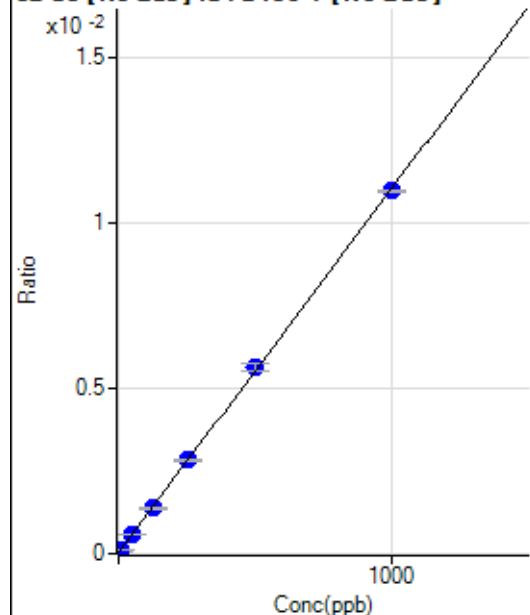
Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			12919.06		P	1.5
2	☐			13074.77		P	1.0
3	☐			12840.13		P	0.6
4	☐			13163.77		P	2.3
5	☐			13646.41		P	1.8
6	☐			14963.24		P	0.9
7	☐			15554.98		P	1.7
8	☐			17387.02		P	3.0

81 Br [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			187.78		P	19.6
2	☐			131.11		P	16.9
3	☐			108.89		P	9.8
4	☐			115.56		P	6.7
5	☐			118.89		P	19.9
6	☐			137.78		P	30.4
7	☐			137.78		P	17.5
8	☐			326.68		P	12.8

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1210.80	0.0000	P	1.8
2	☐	5.000	5.284	3278.72	0.0001	P	1.2
3	☐	50.000	50.670	19899.65	0.0006	P	2.8
4	☐	125.000	122.588	48501.16	0.0014	P	4.2
5	☐	250.000	254.418	95726.46	0.0028	P	0.9
6	☐	500.000	509.522	194419.65	0.0056	P	3.8
7	☐	1000.000	994.401	392730.81	0.0110	P	0.5
8	☐			1218.75	0.0000	P	1.9

$$y = 1.1004\text{E-}005 * x + 3.5046\text{E-}005$$

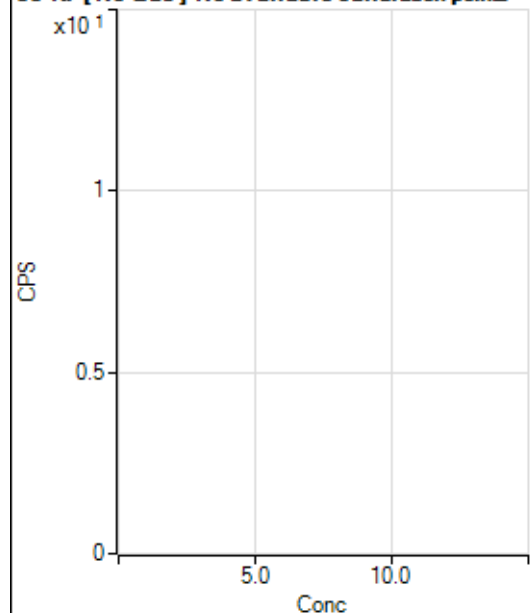
$$R = 0.9999$$

$$DL = 0.17$$

$$BEC = 3.185$$

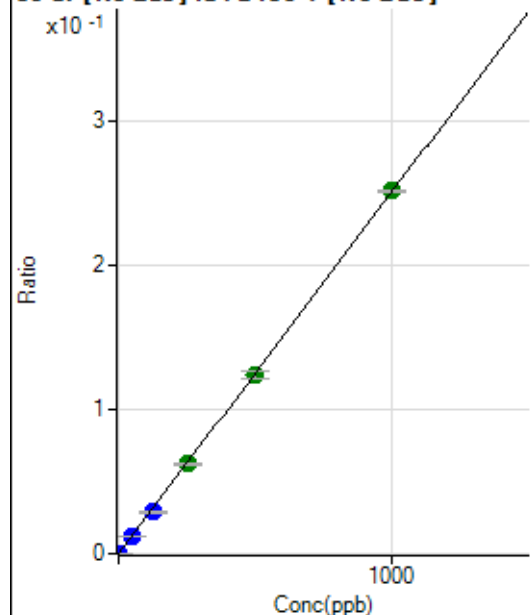
Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			444.45		P	4.3
2	☐			485.57		P	2.4
3	☐			460.01		P	18.8
4	☐			461.12		P	6.9
5	☐			467.79		P	8.0
6	☐			541.13		P	4.5
7	☐			542.24		P	5.8
8	☐			590.02		P	3.1

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	807.81	0.0000	P	8.4
2	☐	1.000	0.966	9344.17	0.0003	P	4.1
3	☐	50.000	48.014	404945.16	0.0121	P	3.5
4	☐	125.000	115.766	1017817.83	0.0290	P	4.4
5	☐	250.000	248.000	2100354.17	0.0622	A	1.0
6	☐	500.000	494.967	4277205.52	0.1241	A	3.7
7	☐	1000.000	1004.270	9008325.84	0.2518	A	0.4
8	☐			23629.02	0.0007	P	5.1

$$y = 2.5070\text{E-}004 * x + 2.3383\text{E-}005$$

$$R = 0.9999$$

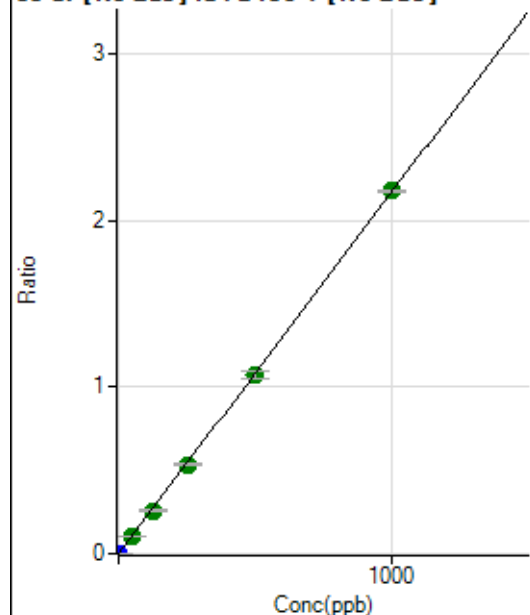
$$DL = 0.02337$$

$$BEC = 0.09327$$

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	478.90	0.0000	P	23.0
2	☐	1.000	0.954	73263.42	0.0021	P	0.3
3	☐	50.000	48.915	3560381.82	0.1060	A	2.4
4	☐	125.000	118.016	8962530.01	0.2558	A	4.8
5	☐	250.000	246.887	18069884.45	0.5351	A	1.3
6	☐	500.000	495.183	36980463.62	1.0732	A	4.3
7	☐	1000.000	1004.114	77859298.84	2.1762	A	0.5
8	☐			200477.13	0.0063	P	2.7

$$y = 0.0022 * x + 1.3863\text{E-}005$$

$$R = 1.0000$$

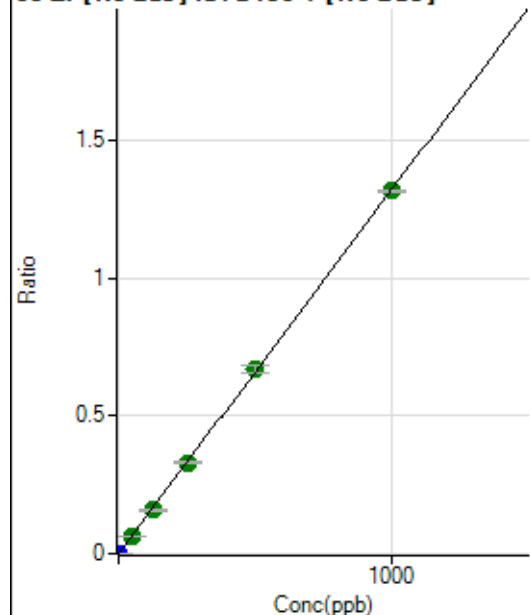
$$DL = 0.004422$$

$$BEC = 0.006397$$

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	1381.19	0.0000	P	1.4
2	☐	1.000	0.976	46738.54	0.0013	P	0.2
3	☐	50.000	49.488	2195121.79	0.0654	A	2.0
4	☐	125.000	119.845	5544569.92	0.1582	A	4.8
5	☐	250.000	250.659	11175055.39	0.3309	A	1.9
6	☐	500.000	505.844	23012809.10	0.6678	A	4.0
7	☐	1000.000	997.583	47114938.18	1.3169	A	0.3
8	☐			38657.64	0.0012	P	8.9

$$y = 0.0013 * x + 3.9978E-005$$

$$R = 1.0000$$

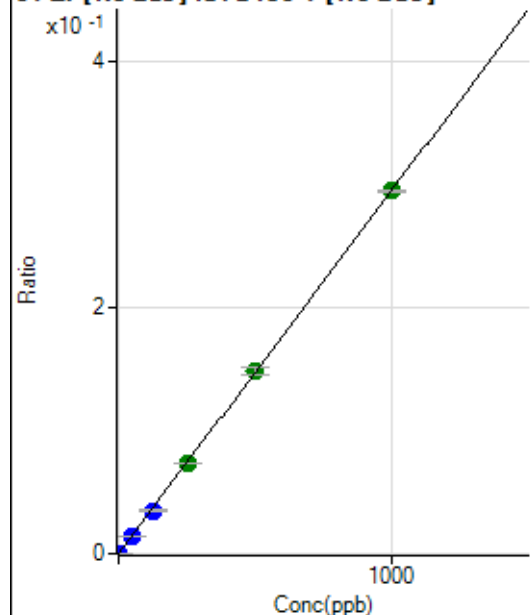
$$DL = 0.001241$$

$$BEC = 0.03028$$

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	245.56	0.0000	P	16.4
2	☐	1.000	0.957	10172.49	0.0003	P	1.0
3	☐	50.000	48.962	484779.30	0.0144	P	3.1
4	☐	125.000	118.303	1221922.92	0.0349	P	5.0
5	☐	250.000	250.887	2497283.37	0.0740	A	0.2
6	☐	500.000	501.896	5097292.60	0.1479	A	4.7
7	☐	1000.000	999.719	10542040.19	0.2947	A	0.5
8	☐			8724.89	0.0003	P	11.4

$$y = 2.9474E-004 * x + 7.1081E-006$$

$$R = 1.0000$$

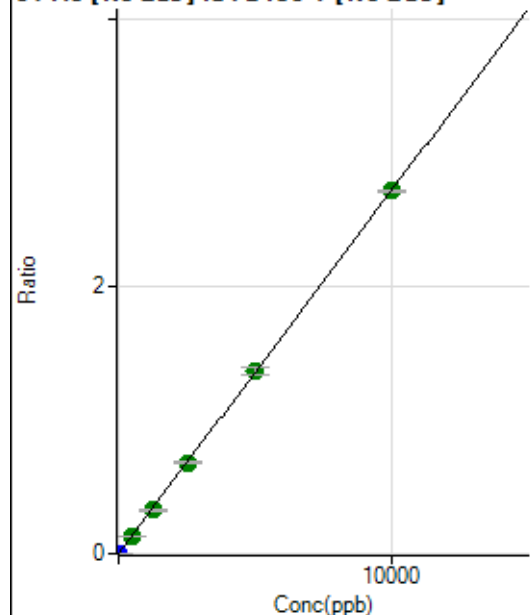
$$DL = 0.01188$$

$$BEC = 0.02412$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	466.68	0.0000	P	3.4
2	☐	5.000	5.727	55161.11	0.0016	P	1.0
3	☐	500.000	489.284	4459858.20	0.1328	A	3.1
4	☐	1250.000	1194.999	11364480.25	0.3244	A	5.5
5	☐	2500.000	2503.129	22944812.99	0.6795	A	1.0
6	☐	5000.000	5029.229	47043574.30	1.3652	A	4.1
7	☐	10000.000	9992.014	97033437.44	2.7123	A	0.3
8	☐			27012.42	0.0008	P	19.7

$$y = 2.7144\text{E-}004 * x + 1.3508\text{E-}005$$

$$R = 1.0000$$

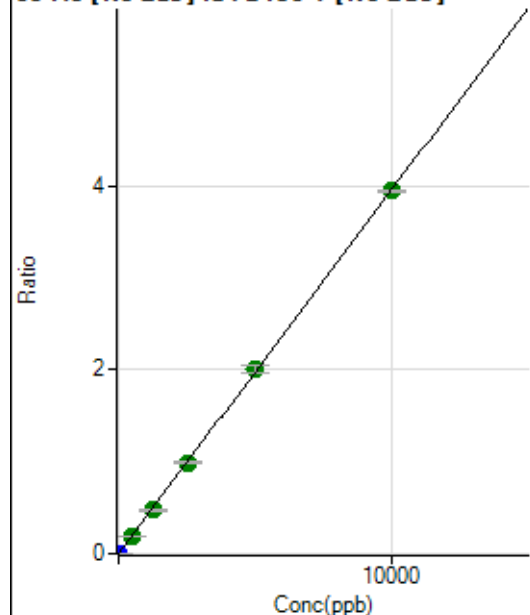
$$DL = 0.005009$$

$$BEC = 0.04976$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	105.56	0.0000	P	15.6
2	☐	5.000	4.847	67611.77	0.0019	P	0.1
3	☐	500.000	492.821	6550498.30	0.1951	A	2.9
4	☐	1250.000	1202.789	16683790.44	0.4761	A	4.5
5	☐	2500.000	2508.886	33537680.05	0.9931	A	1.5
6	☐	5000.000	5054.858	68951096.20	2.0010	A	4.0
7	☐	10000.000	9976.610	141286953.45	3.9492	A	0.3
8	☐			21372.79	0.0007	P	33.5

$$y = 3.9585\text{E-}004 * x + 3.0556\text{E-}006$$

$$R = 1.0000$$

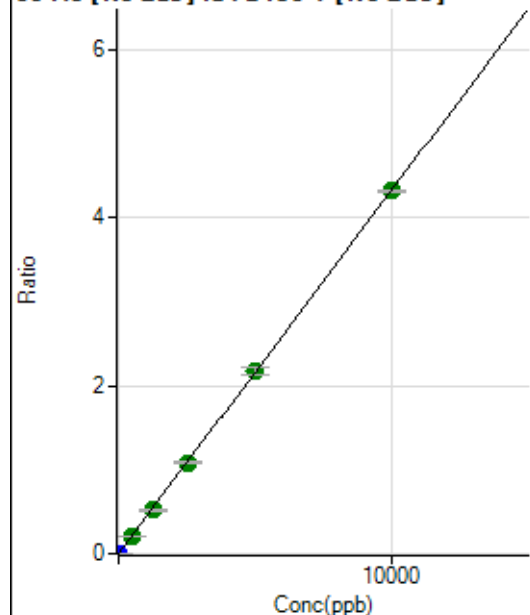
$$DL = 0.003623$$

$$BEC = 0.007719$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	215.56	0.0000	P	14.0
2	☐	5.000	4.914	75041.08	0.0021	P	0.3
3	☐	500.000	495.051	7195326.97	0.2143	A	2.4
4	☐	1250.000	1198.558	18176574.17	0.5188	A	4.9
5	☐	2500.000	2506.846	36639852.23	1.0850	A	1.3
6	☐	5000.000	5036.392	75112009.99	2.1799	A	4.5
7	☐	10000.000	9986.770	154645935.47	4.3225	A	0.8
8	☐			44329.80	0.0014	P	19.0

$$y = 4.3282\text{E-}004 * x + 6.2398\text{E-}006$$

$$R = 1.0000$$

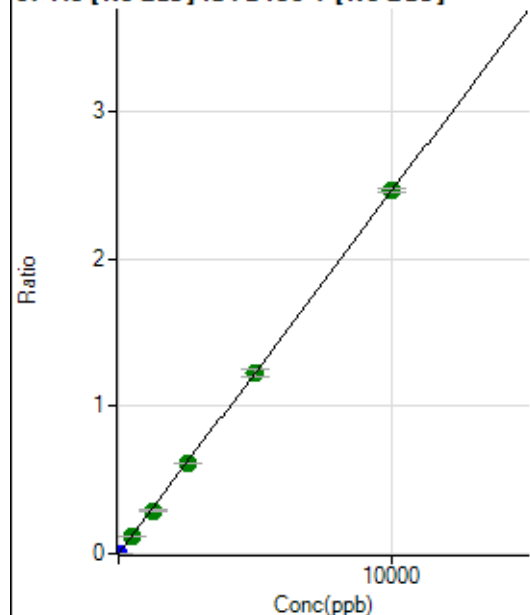
$$DL = 0.006034$$

$$BEC = 0.01442$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	71.11	0.0000	P	45.6
2	☐	5.000	4.921	42696.61	0.0012	P	1.6
3	☐	500.000	493.444	4079973.90	0.1215	A	2.4
4	☐	1250.000	1193.827	10300679.78	0.2940	A	4.4
5	☐	2500.000	2501.025	20795841.91	0.6158	A	1.4
6	☐	5000.000	4991.924	42353862.70	1.2292	A	4.7
7	☐	10000.000	10011.131	88188408.68	2.4650	A	0.9
8	☐			13475.78	0.0004	P	34.5

$$y = 2.4623\text{E-}004 * x + 2.0588\text{E-}006$$

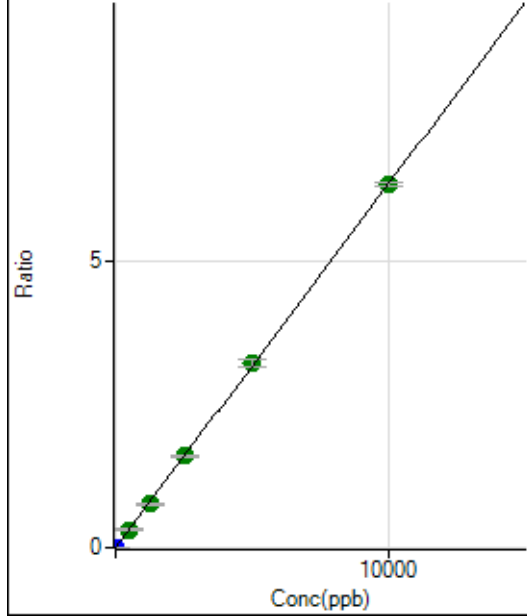
$$R = 1.0000$$

$$DL = 0.01144$$

$$BEC = 0.008361$$

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	135.56	0.0000	P	7.4
2	☐	5.000	4.838	108260.63	0.0031	P	0.8
3	☐	500.000	499.007	10643896.16	0.3170	A	2.0
4	☐	1250.000	1195.939	26615706.27	0.7597	A	5.1
5	☐	2500.000	2516.927	53986744.75	1.5987	A	1.3
6	☐	5000.000	5052.989	110599716.13	3.2096	A	4.3
7	☐	10000.000	9976.081	226693643.29	6.3367	A	0.9
8	☐			33276.77	0.0010	P	35.3

$$y = 6.3519\text{E-}004 * x + 3.9236\text{E-}006$$

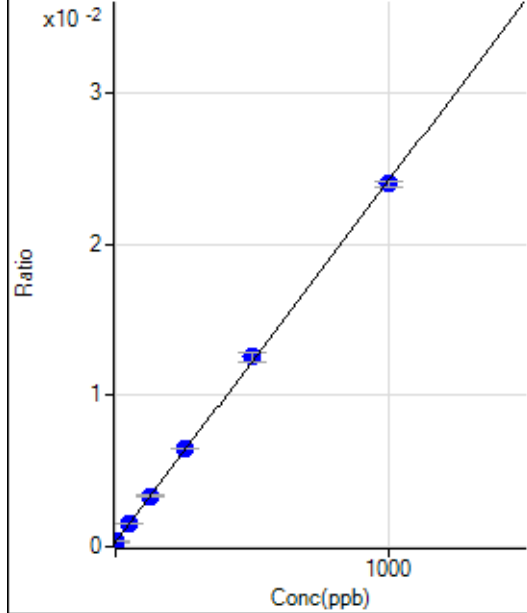
$$R = 1.0000$$

$$DL = 0.001377$$

$$BEC = 0.006177$$

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	8935.05	0.0003	P	1.1
2	☐	1.000	0.987	9745.58	0.0003	P	2.0
3	☐	50.000	51.973	43701.05	0.0016	P	3.2
4	☐	125.000	125.831	96854.46	0.0033	P	4.0
5	☐	250.000	258.687	184276.18	0.0065	P	0.6
6	☐	500.000	511.821	362520.75	0.0126	P	4.5
7	☐	1000.000	991.715	716474.62	0.0240	P	1.5
8	☐			8698.25	0.0003	P	2.0

$$y = 2.3912\text{E-}005 * x + 3.1406\text{E-}004$$

$$R = 0.9999$$

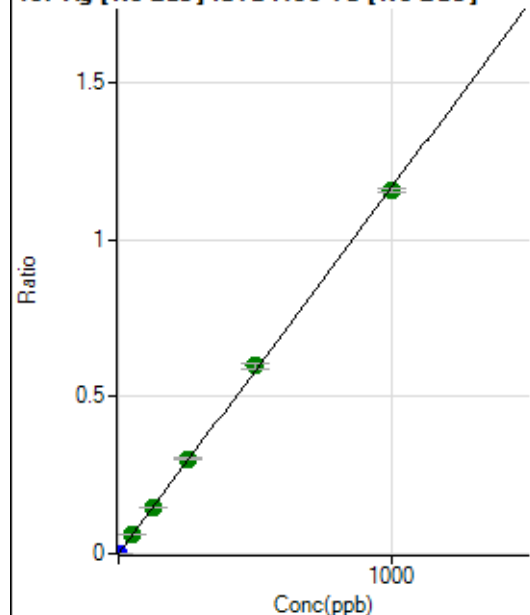
$$DL = 0.4186$$

$$BEC = 13.13$$

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	140.00	0.0000	P	5.6
2	☐	1.000	1.034	34946.42	0.0012	P	1.3
3	☐	50.000	52.083	1705840.46	0.0608	A	2.0
4	☐	125.000	126.357	4296673.06	0.1474	A	3.6
5	☐	250.000	259.500	8582205.22	0.3027	A	0.7
6	☐	500.000	512.911	17281789.88	0.5983	A	3.5
7	☐	1000.000	990.896	34468722.27	1.1559	A	1.1
8	☐			4640.81	0.0002	P	21.1

$$y = 0.0012 * x + 4.9195E-006$$

$$R = 0.9998$$

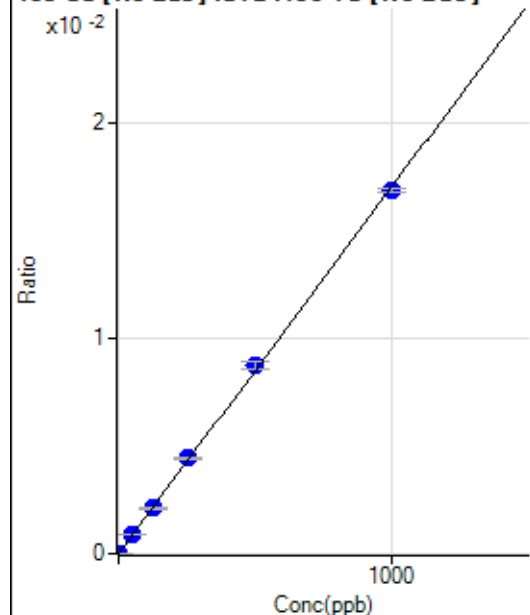
$$DL = 0.0007113$$

$$BEC = 0.004217$$

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	20.00	0.0000	P	72.8
2	☐	1.000	1.068	545.57	0.0000	P	7.1
3	☐	50.000	52.019	24889.18	0.0009	P	2.7
4	☐	125.000	124.561	61848.79	0.0021	P	4.6
5	☐	250.000	259.751	125438.49	0.0044	P	0.8
6	☐	500.000	515.207	253406.62	0.0088	P	4.7
7	☐	1000.000	989.913	502747.08	0.0169	P	1.2
8	☐			191.11	0.0000	P	13.8

$$y = 1.7031E-005 * x + 7.0297E-007$$

$$R = 0.9998$$

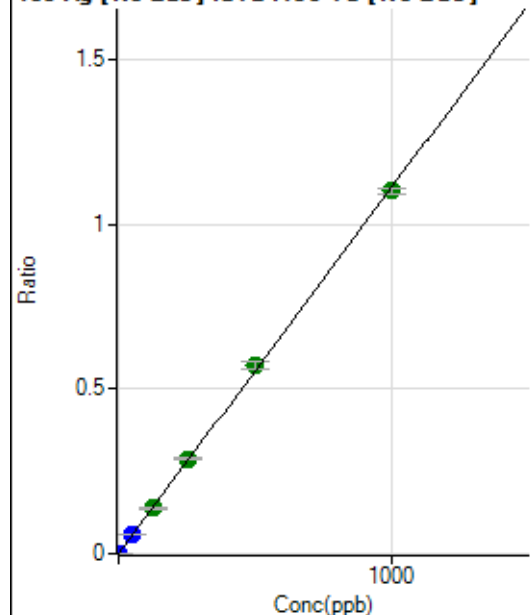
$$DL = 0.0902$$

$$BEC = 0.04128$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	48.89	0.0000	P	17.6
2	☐	1.000	1.033	33164.63	0.0011	P	2.4
3	☐	50.000	51.866	1618096.33	0.0576	P	2.5
4	☐	125.000	125.762	4073343.06	0.1398	A	4.3
5	☐	250.000	259.247	8167796.41	0.2881	A	1.5
6	☐	500.000	512.901	16461410.87	0.5700	A	4.0
7	☐	1000.000	991.049	32838215.07	1.1013	A	1.7
8	☐			4418.52	0.0002	P	24.2

$$y = 0.0011 * x + 1.7192E-006$$

$$R = 0.9998$$

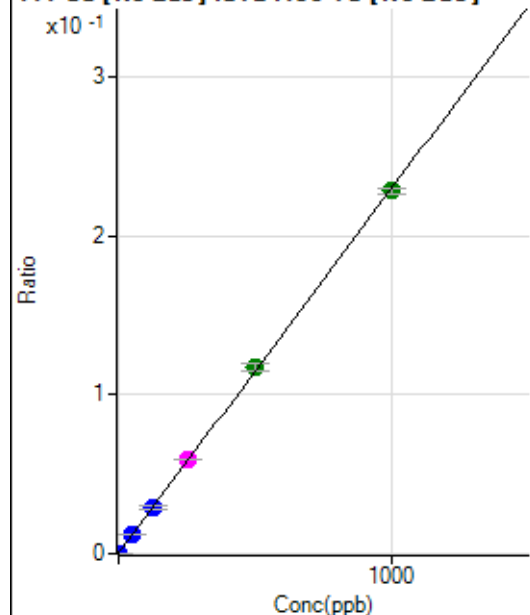
$$DL = 0.000818$$

$$BEC = 0.001547$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	6252.76	0.0002	P	1.1
2	☐	1.000	1.106	13661.87	0.0005	P	2.0
3	☐	50.000	51.506	337734.57	0.0120	P	2.9
4	☐	125.000	125.440	844829.99	0.0290	P	4.4
5	☐	250.000	256.104	1671307.79	0.0589	M	0.9
6	☐	500.000	509.638	3381736.68	0.1171	A	4.4
7	☐	1000.000	993.525	6800249.60	0.2281	A	1.6
8	☐			6943.93	0.0003	P	6.3

$$y = 2.2932E-004 * x + 2.1978E-004$$

$$R = 0.9999$$

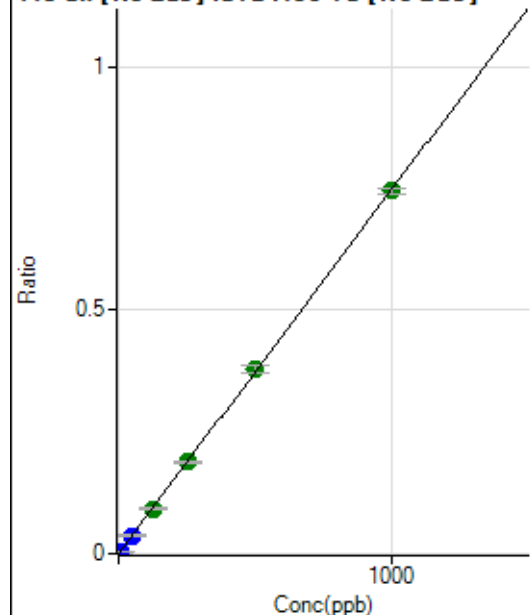
$$DL = 0.03259$$

$$BEC = 0.9584$$

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	1982.38	0.0001	P	3.0
2	☐	5.000	5.106	112058.02	0.0039	P	0.7
3	☐	50.000	50.029	1050765.44	0.0374	P	3.1
4	☐	125.000	121.876	2654827.61	0.0911	A	4.5
5	☐	250.000	251.147	5319618.81	0.1876	A	1.7
6	☐	500.000	505.981	10915547.89	0.3779	A	4.2
7	☐	1000.000	997.111	22206424.11	0.7447	A	1.6
8	☐			14550.83	0.0006	P	8.2

$$y = 7.4682\text{E-}004 * x + 6.9685\text{E-}005$$

$$R = 1.0000$$

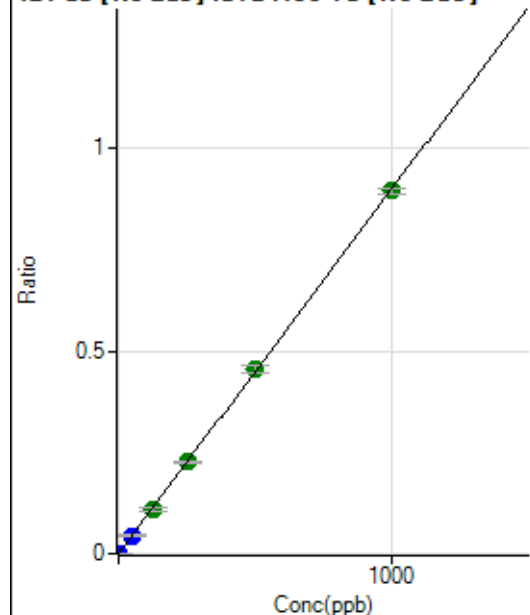
$$DL = 0.008319$$

$$BEC = 0.09331$$

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	58.89	0.0000	P	17.2
2	☐	2.000	2.080	53976.37	0.0019	P	0.5
3	☐	50.000	49.541	1249460.89	0.0445	P	2.6
4	☐	125.000	121.383	3178181.86	0.1090	A	4.6
5	☐	250.000	252.230	6424321.57	0.2266	A	1.6
6	☐	500.000	508.189	13184807.17	0.4565	A	4.3
7	☐	1000.000	995.823	26676262.94	0.8946	A	1.4
8	☐			17966.96	0.0007	P	5.8

$$y = 8.9836\text{E-}004 * x + 2.0694\text{E-}006$$

$$R = 0.9999$$

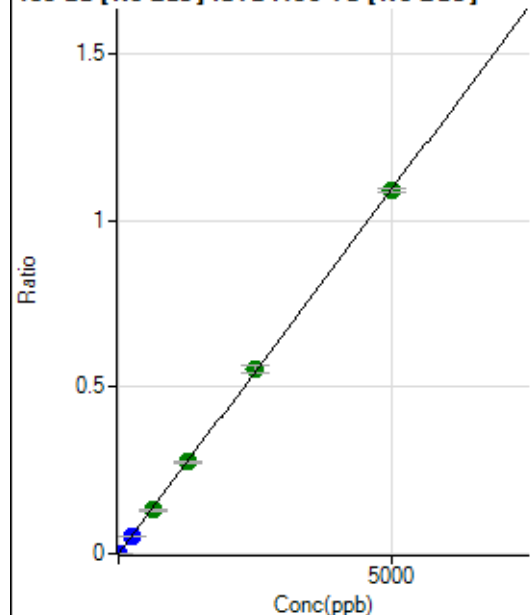
$$DL = 0.001186$$

$$BEC = 0.002304$$

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	87.78	0.0000	P	18.0
2	☐	10.000	10.011	63299.84	0.0022	P	0.6
3	☐	250.000	245.107	1505464.21	0.0536	P	2.7
4	☐	625.000	602.644	3842791.65	0.1318	A	4.7
5	☐	1250.000	1255.575	7787872.73	0.2747	A	0.7
6	☐	2500.000	2538.182	16038200.73	0.5553	A	3.9
7	☐	5000.000	4982.554	32505863.96	1.0901	A	1.1
8	☐			12946.03	0.0005	P	10.4

$$y = 2.1878\text{E-}004 * x + 3.0808\text{E-}006$$

$$R = 0.9999$$

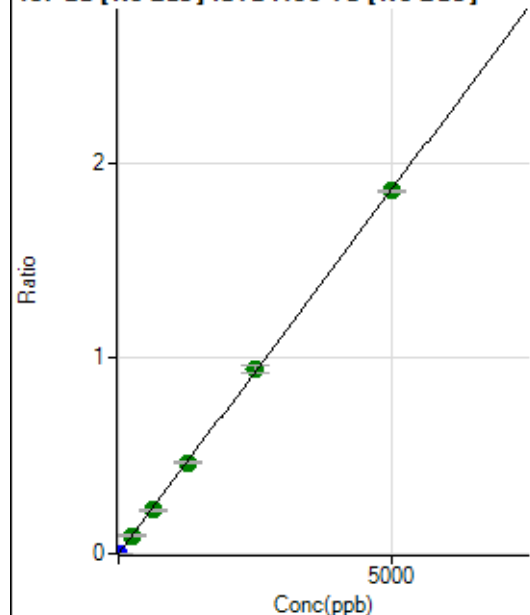
$$DL = 0.007606$$

$$BEC = 0.01408$$

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	163.34	0.0000	P	28.2
2	☐	10.000	10.095	108666.65	0.0038	P	1.3
3	☐	250.000	248.610	2599110.32	0.0926	A	3.8
4	☐	625.000	603.096	6546089.28	0.2246	A	5.0
5	☐	1250.000	1253.874	13239940.78	0.4670	A	1.4
6	☐	2500.000	2536.241	27280472.09	0.9446	A	4.2
7	☐	5000.000	4983.718	55351774.17	1.8561	A	0.7
8	☐			22071.89	0.0008	P	11.7

$$y = 3.7244\text{E-}004 * x + 5.7281\text{E-}006$$

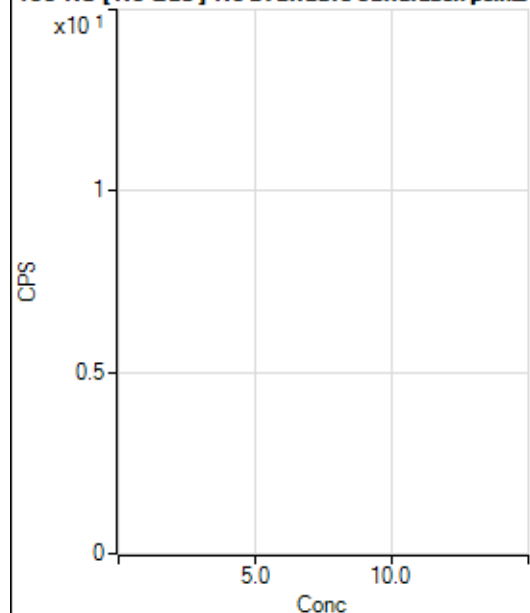
$$R = 0.9999$$

$$DL = 0.01301$$

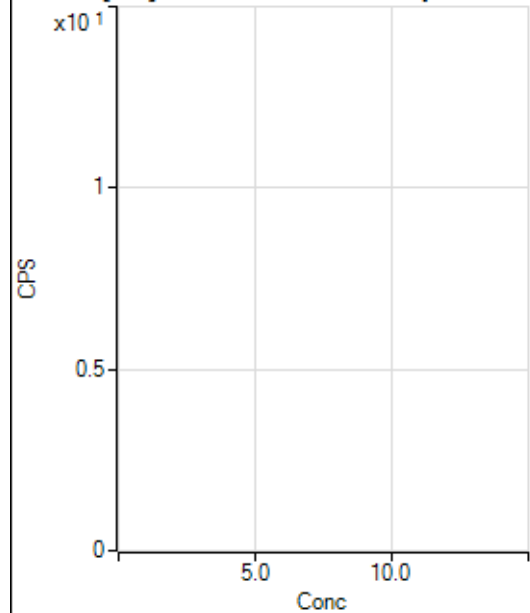
$$BEC = 0.01538$$

Weight: <None>

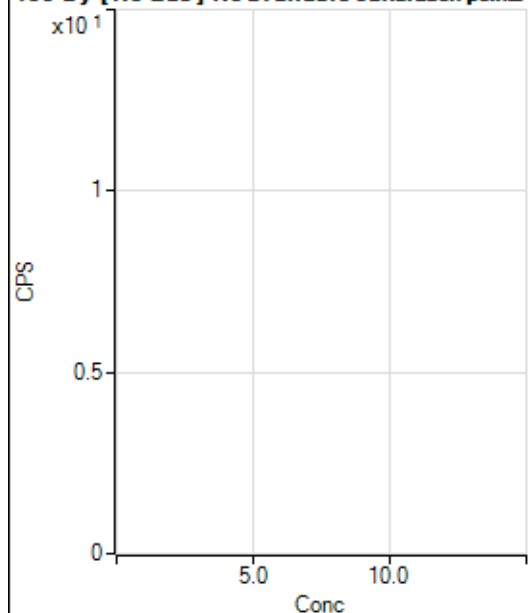
Min Conc: 0

150 Nd [No Gas] No available calibration points

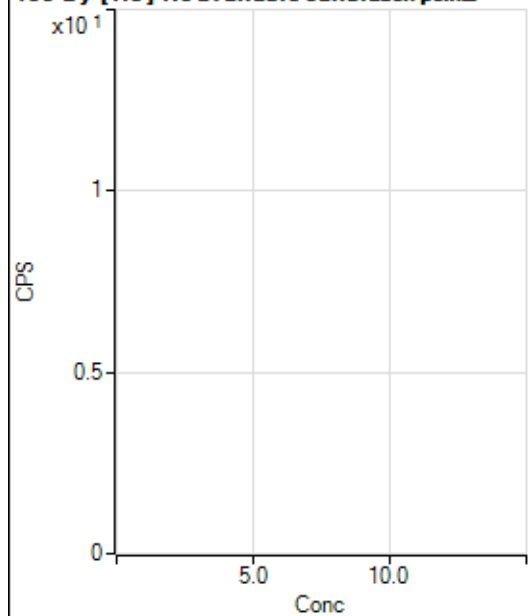
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			20.00		P	28.9
2	☐			23.33		P	37.8
3	☐			78.89		P	13.6
4	☐			201.11		P	13.5
5	☐			364.45		P	10.4
6	☐			647.80		P	4.8
7	☐			1345.64		P	4.1
8	☐			525.57		P	3.8

150 Nd [He] No available calibration points

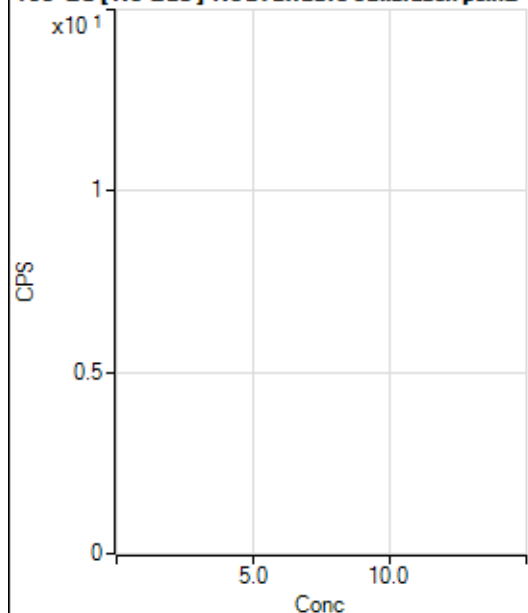
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			7.78		P	65.5
2	☐			16.67		P	87.2
3	☐			22.22		P	52.7
4	☐			51.11		P	10.0
5	☐			78.89		P	23.3
6	☐			154.45		P	13.7
7	☐			346.68		P	4.2
8	☐			313.34		P	2.8

156 Dy [No Gas] No available calibration points

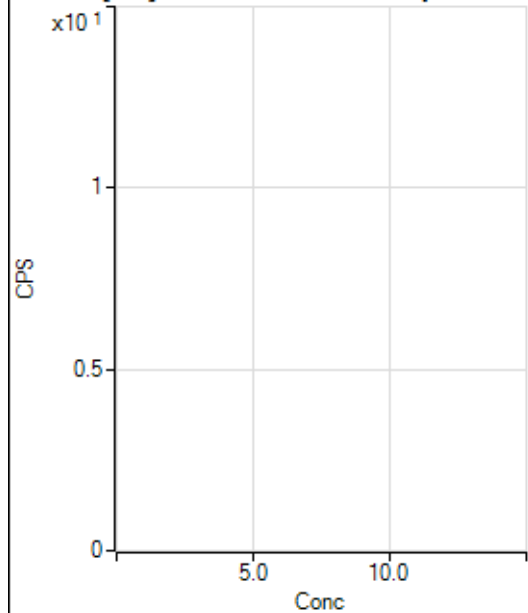
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			25.55		P	15.1
2	☐			27.78		P	30.2
3	☐			51.11		P	18.8
4	☐			75.56		P	11.1
5	☐			167.78		P	10.2
6	☐			250.01		P	4.8
7	☐			490.02		P	8.5
8	☐			860.04		P	10.4

156 Dy [He] No available calibration points

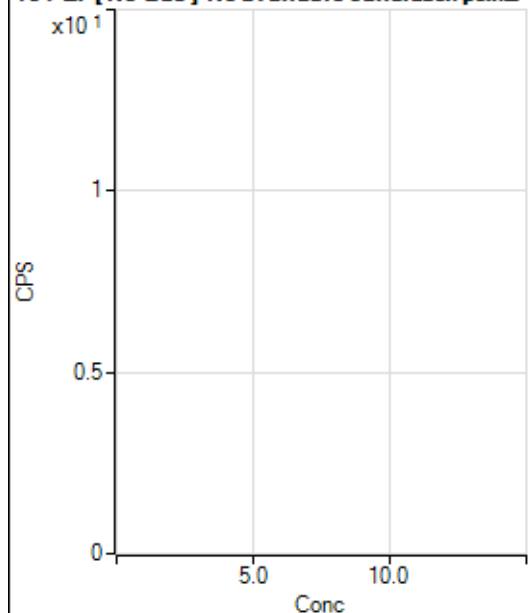
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			12.22		P	41.7
2	☐			16.67		P	20.0
3	☐			71.11		P	11.8
4	☐			168.89		P	25.8
5	☐			373.34		P	6.7
6	☐			698.91		P	1.8
7	☐			1420.09		P	1.5
8	☐			713.36		P	10.1

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

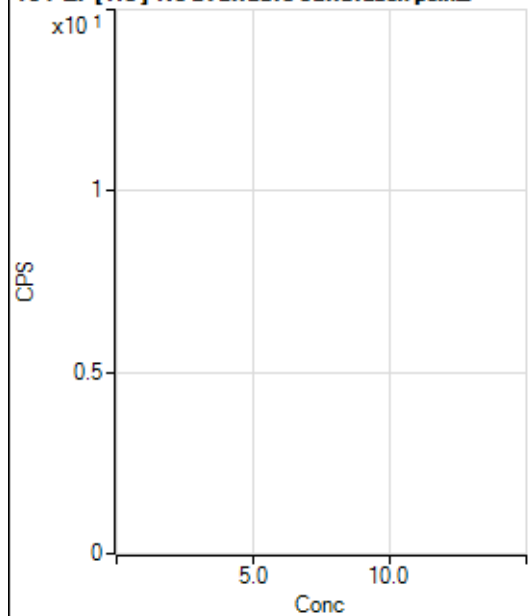
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			163.34		P	15.9
2	☐			175.56		P	15.2
3	☐			163.34		P	14.7
4	☐			214.45		P	10.4
5	☐			235.56		P	4.3
6	☐			292.23		P	12.7
7	☐			402.23		P	3.4
8	☐			864.48		P	2.0

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1025.60		P	10.9
2	☐			1081.16		P	3.7
3	☐			1057.83		P	3.8
4	☐			1053.38		P	5.5
5	☐			1128.95		P	5.5
6	☐			1131.17		P	6.1
7	☐			1275.63		P	3.5
8	☐			1524.55		P	4.7

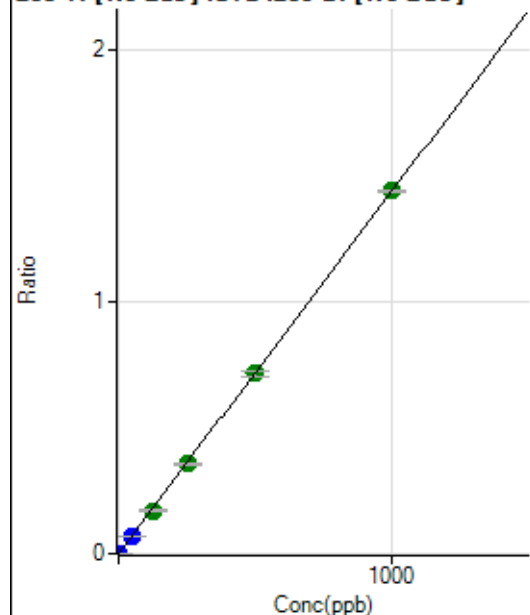
164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			203.34		P	5.9
2	☐			180.00		P	1.9
3	☐			227.78		P	8.9
4	☐			234.45		P	7.0
5	☐			313.34		P	3.2
6	☐			352.23		P	9.7
7	☐			480.01		P	9.1
8	☐			1031.16		P	8.0

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			128.89		P	18.3
2	☐			153.34		P	24.2
3	☐			154.45		P	14.7
4	☐			171.11		P	14.6
5	☐			173.34		P	8.4
6	☐			227.78		P	11.4
7	☐			343.34		P	12.1
8	☐			731.14		P	7.4

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	201.12	0.0000	P	13.6
2	☐	1.000	0.986	23726.30	0.0014	P	1.3
3	☐	50.000	49.381	1131601.65	0.0711	P	2.9
4	☐	125.000	118.831	2838403.92	0.1710	A	3.5
5	☐	250.000	247.864	5717433.46	0.3567	A	1.7
6	☐	500.000	497.369	11480316.77	0.7157	A	3.4
7	☐	1000.000	1002.652	23141384.10	1.4427	A	0.5
8	☐			2254.67	0.0002	P	34.1

$$y = 0.0014 * x + 1.2271E-005$$

$$R = 1.0000$$

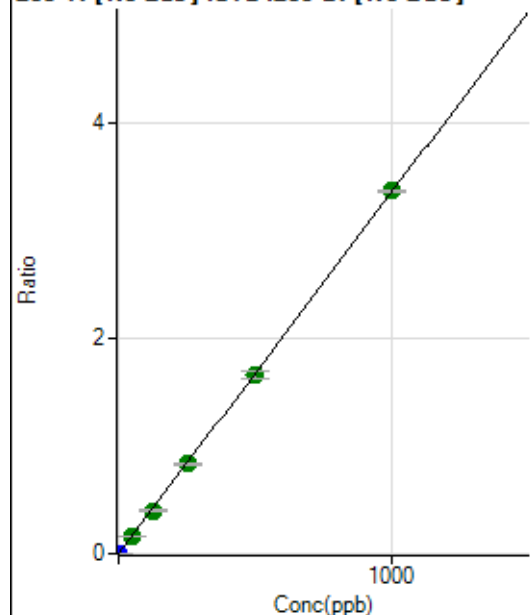
$$DL = 0.003475$$

$$BEC = 0.008528$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	377.79	0.0000	P	9.9
2	☐	1.000	0.990	55439.03	0.0033	P	0.1
3	☐	50.000	48.438	2586755.01	0.1625	A	4.1
4	☐	125.000	118.852	6616317.68	0.3986	A	3.9
5	☐	250.000	247.628	13313619.39	0.8305	A	0.5
6	☐	500.000	494.191	26584860.71	1.6574	A	3.9
7	☐	1000.000	1004.344	54028890.86	3.3683	A	0.6
8	☐			5168.88	0.0004	P	27.5

$$y = 0.0034 * x + 2.3042E-005$$

$$R = 1.0000$$

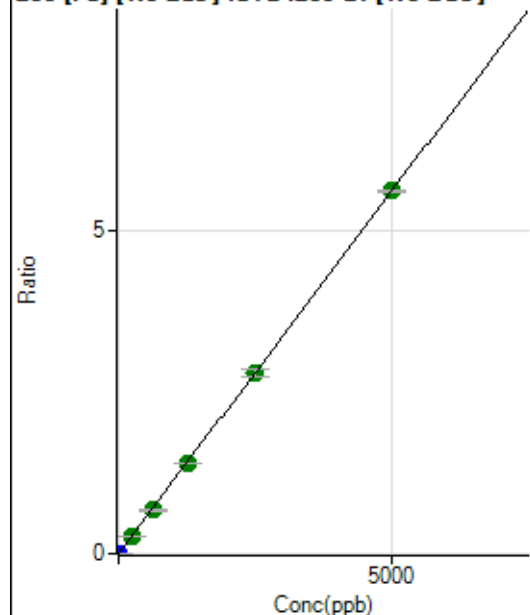
$$DL = 0.002045$$

$$BEC = 0.00687$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	424.45	0.0000	P	5.5
2	☐	1.000	1.013	19263.69	0.0012	P	0.6
3	☐	250.000	243.509	4350468.41	0.2732	A	3.6
4	☐	625.000	597.996	11135222.33	0.6709	A	4.2
5	☐	1250.000	1243.388	22362655.78	1.3950	A	1.3
6	☐	2500.000	2496.903	44933594.88	2.8013	A	3.7
7	☐	5000.000	5006.901	90100591.99	5.6172	A	0.6
8	☐			16479.55	0.0013	P	24.4

$$y = 0.0011 * x + 2.5889E-005$$

$$R = 1.0000$$

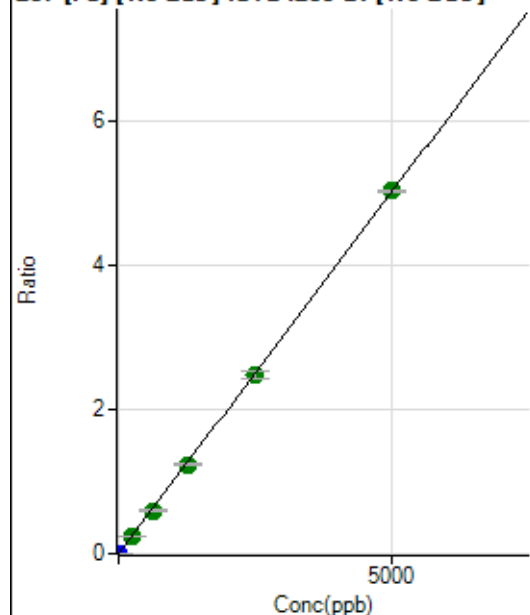
$$DL = 0.003831$$

$$BEC = 0.02308$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	403.34	0.0000	P	7.5
2	☐	1.000	0.990	16859.45	0.0010	P	1.3
3	☐	250.000	244.178	3897331.61	0.2448	A	3.8
4	☐	625.000	593.340	9870467.42	0.5948	A	4.7
5	☐	1250.000	1230.505	19772717.62	1.2334	A	1.7
6	☐	2500.000	2480.458	39881249.96	2.4863	A	3.8
7	☐	5000.000	5018.893	80693009.91	5.0307	A	0.5
8	☐			14334.71	0.0011	P	23.7

$$y = 0.0010 * x + 2.4602E-005$$

$$R = 1.0000$$

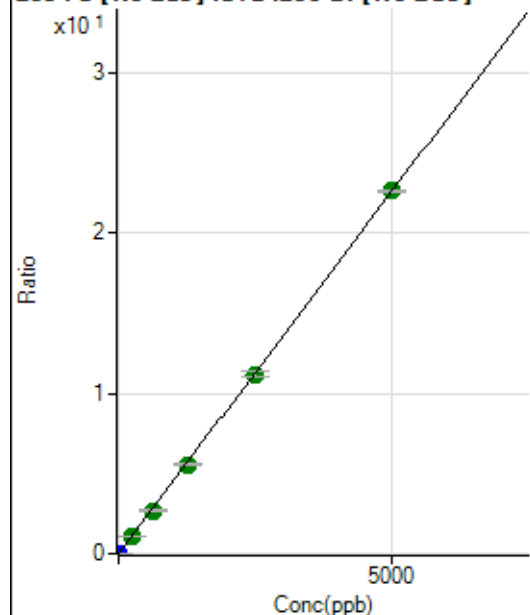
$$DL = 0.005488$$

$$BEC = 0.02454$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	1686.73	0.0001	P	5.6
2	☐	1.000	0.998	76437.27	0.0046	P	0.5
3	☐	250.000	243.231	17497400.37	1.0988	A	2.8
4	☐	625.000	596.941	44754525.51	2.6966	A	4.5
5	☐	1250.000	1235.784	89491889.92	5.5825	A	1.7
6	☐	2500.000	2484.791	180044938.98	11.2245	A	3.8
7	☐	5000.000	5015.004	363376623.47	22.6542	A	0.6
8	☐			65157.40	0.0050	P	23.5

$$y = 0.0045 * x + 1.0288E-004$$

$$R = 1.0000$$

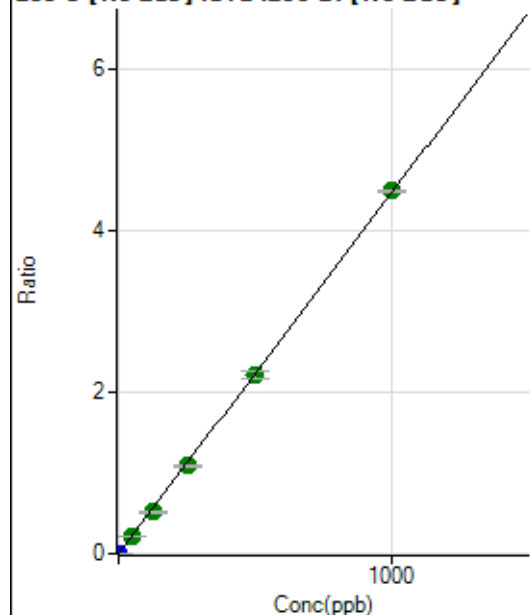
$$DL = 0.003833$$

$$BEC = 0.02277$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	55.56	0.0000	P	29.5
2	☐	1.000	0.939	69613.86	0.0042	P	1.1
3	☐	50.000	47.302	3366207.24	0.2114	A	1.5
4	☐	125.000	115.429	8561274.67	0.5158	A	3.8
5	☐	250.000	244.163	17490034.46	1.0910	A	1.5
6	☐	500.000	494.193	35421251.69	2.2083	A	3.9
7	☐	1000.000	1005.694	72081300.04	4.4939	A	0.4
8	☐			5624.14	0.0004	P	73.5

$$y = 0.0045 * x + 3.3883E-006$$

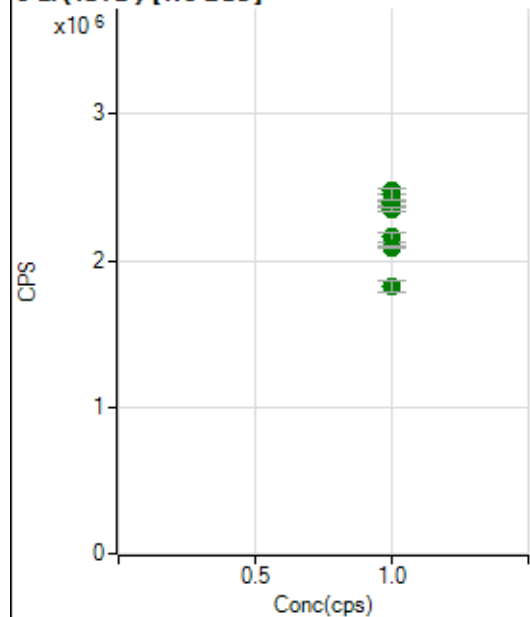
$$R = 0.9999$$

$$DL = 0.0006711$$

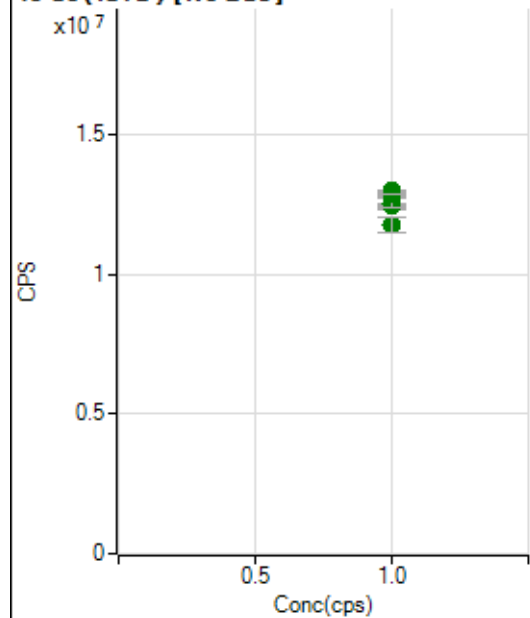
$$BEC = 0.0007583$$

Weight: <None>

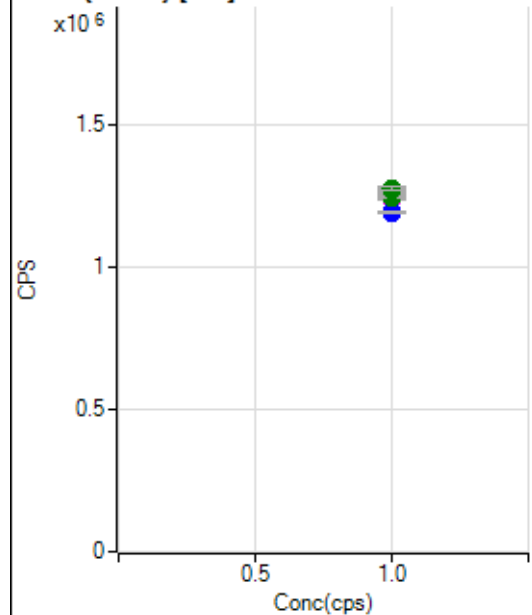
Min Conc: 0

6 Li (ISTD) [No Gas]

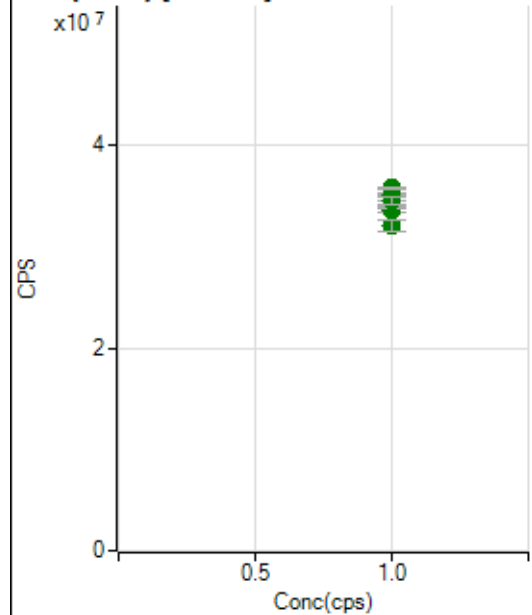
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		2389402.44		A	1.0
2	☐	1.000		2474674.30		A	1.4
3	☐	1.000		2397032.10		A	1.9
4	☐	1.000		2453791.02		A	3.0
5	☐	1.000		2348768.59		A	0.8
6	☐	1.000		2161067.97		A	3.1
7	☐	1.000		2088905.37		A	0.7
8	☐	1.000		1824547.34		A	4.8

45 Sc (ISTD) [No Gas]

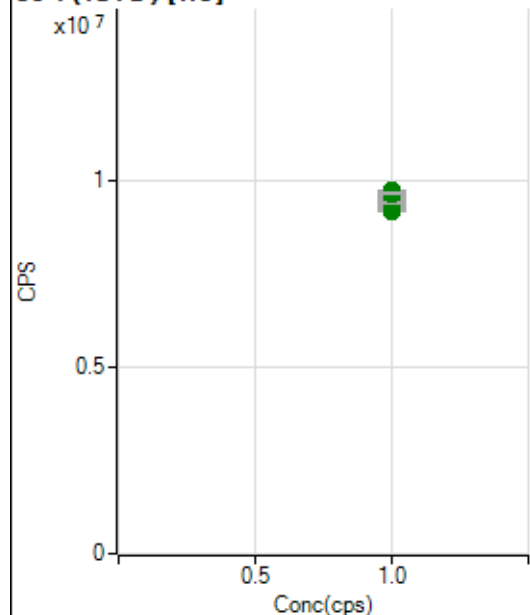
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		12867065.92		A	0.7
2	☐	1.000		12976020.22		A	0.5
3	☐	1.000		12433491.62		A	1.4
4	☐	1.000		12846007.58		A	2.1
5	☐	1.000		12432347.04		A	0.5
6	☐	1.000		12548602.59		A	2.7
7	☐	1.000		12846876.48		A	0.3
8	☐	1.000		11772432.46		A	4.3

45 Sc (ISTD) [He]

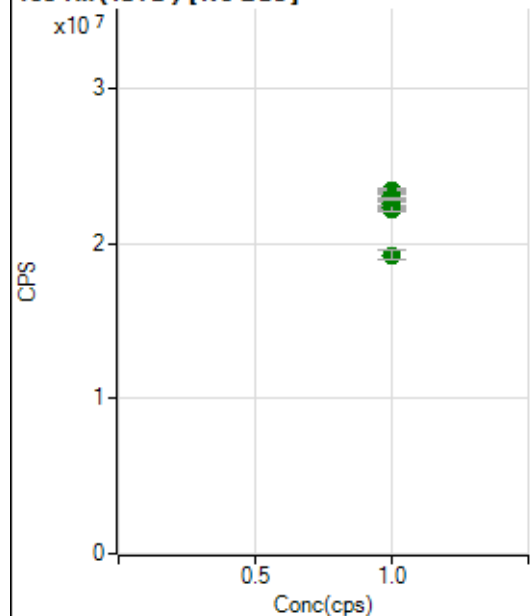
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		1233974.59		M	0.0
2	☐	1.000		1249525.17		A	0.7
3	☐	1.000		1194470.99		P	0.4
4	☐	1.000		1190592.41		P	0.5
5	☐	1.000		1193181.86		P	0.3
6	☐	1.000		1244934.53		A	0.3
7	☐	1.000		1268131.24		A	0.8
8	☐	1.000		1273602.50		A	1.0

89 Y (ISTD) [No Gas]

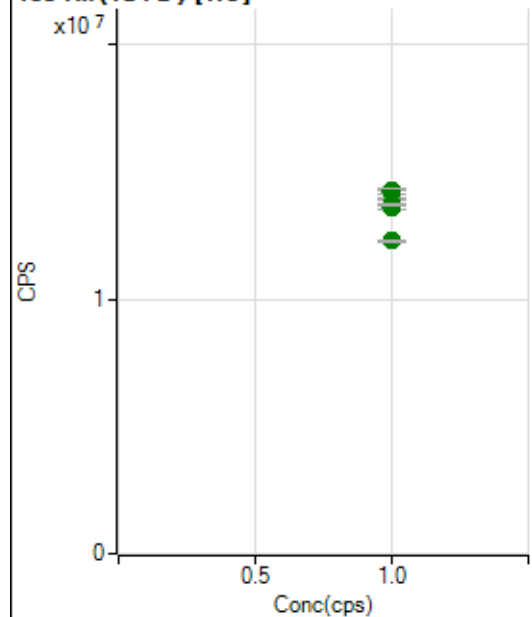
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		34548496.98		A	0.1
2	☐	1.000		35181900.86		A	0.7
3	☐	1.000		33587080.33		A	1.5
4	☐	1.000		35072502.81		A	3.0
5	☐	1.000		33768814.77		A	0.5
6	☐	1.000		34480397.26		A	2.5
7	☐	1.000		35776435.30		A	0.8
8	☐	1.000		31995602.85		A	3.7

89 Y (ISTD) [He]

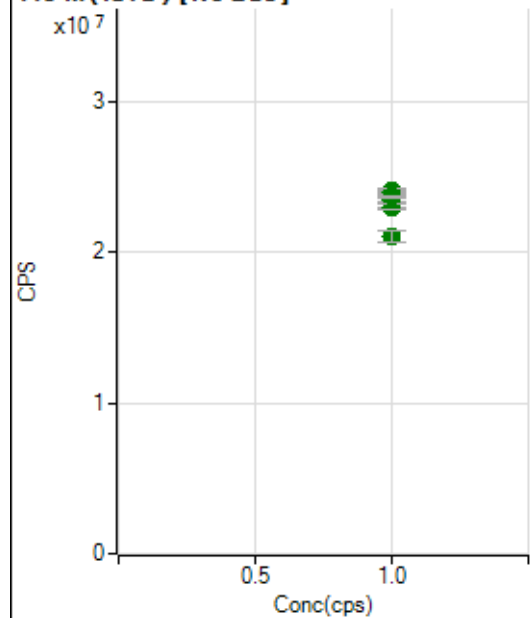
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		9502576.94		A	0.9
2	☐	1.000		9604426.25		A	0.6
3	☐	1.000		9194469.24		A	0.9
4	☐	1.000		9288102.43		A	0.5
5	☐	1.000		9403216.32		A	0.5
6	☐	1.000		9723805.96		A	0.6
7	☐	1.000		9709742.77		A	0.6
8	☐	1.000		9659630.48		A	1.0

103 Rh (ISTD) [No Gas]

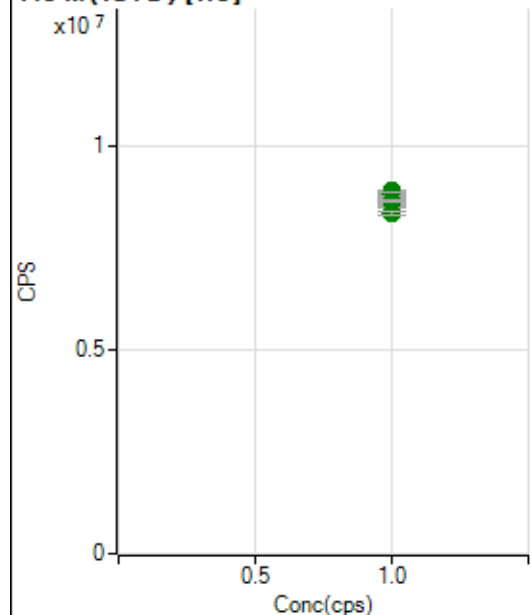
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		23263658.26		A	0.8
2	☐	1.000		23430194.93		A	1.0
3	☐	1.000		22558857.44		A	1.0
4	☐	1.000		23152574.93		A	2.5
5	☐	1.000		22250644.95		A	0.6
6	☐	1.000		22413363.00		A	2.7
7	☐	1.000		22918401.32		A	0.6
8	☐	1.000		19255280.69		A	3.3

103 Rh (ISTD) [He]

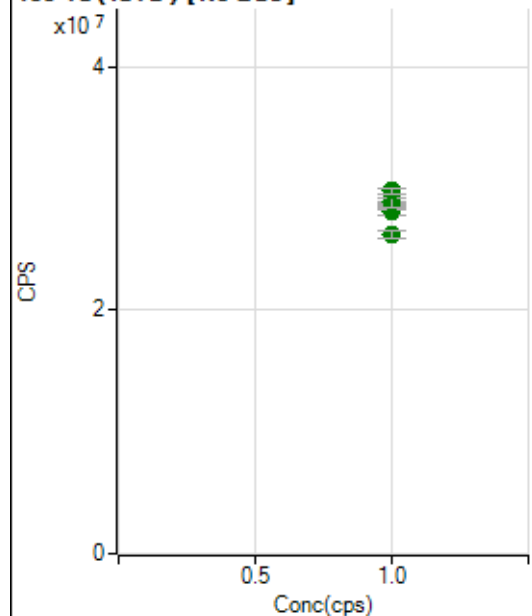
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		14189501.04		A	1.0
2	☐	1.000		14254586.87		A	1.5
3	☐	1.000		13625680.77		A	1.4
4	☐	1.000		13709475.63		A	0.8
5	☐	1.000		13727874.52		A	0.4
6	☐	1.000		13959749.10		A	0.4
7	☐	1.000		13734606.05		A	0.6
8	☐	1.000		12280908.98		A	1.1

115 In (ISTD) [No Gas]

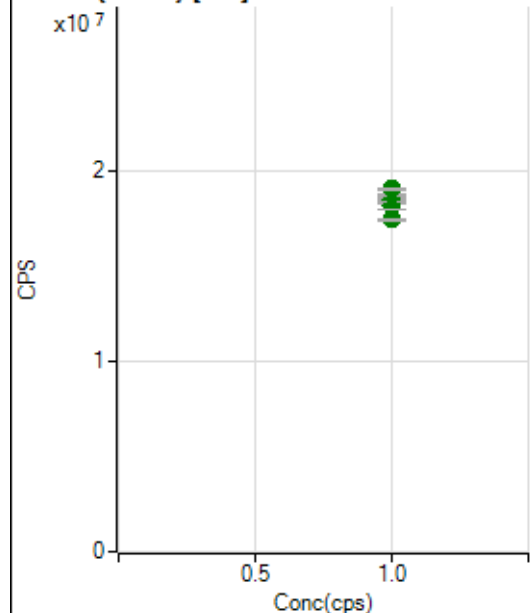
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		23812170.20		A	0.7
2	☐	1.000		24056507.97		A	0.3
3	☐	1.000		23164940.25		A	1.3
4	☐	1.000		23980907.13		A	2.5
5	☐	1.000		23012491.63		A	1.8
6	☐	1.000		23464747.98		A	2.5
7	☐	1.000		23666303.42		A	0.4
8	☐	1.000		21048461.66		A	3.5

115 In (ISTD) [He]

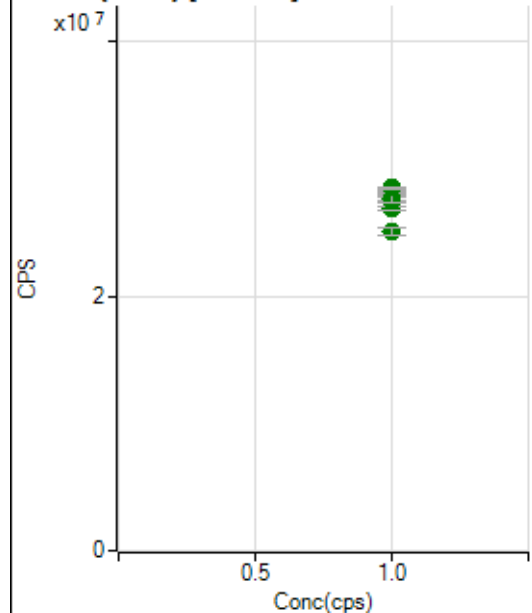
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		8834736.46		A	0.7
2	☐	1.000		8891439.04		A	0.9
3	☐	1.000		8554838.82		A	0.7
4	☐	1.000		8513980.27		A	0.7
5	☐	1.000		8665656.83		A	0.7
6	☐	1.000		8795829.47		A	1.2
7	☐	1.000		8647894.11		A	0.3
8	☐	1.000		8344487.11		A	1.2

159 Tb (ISTD) [No Gas]

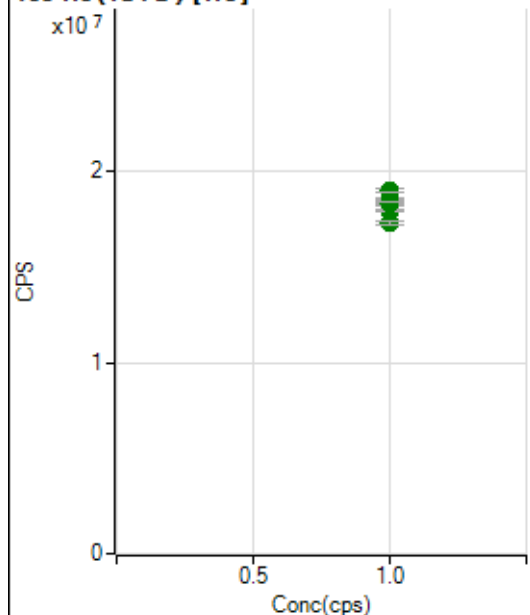
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		28451967.08		A	1.2
2	☐	1.000		28860893.46		A	0.5
3	☐	1.000		28078880.97		A	1.4
4	☐	1.000		29166100.96		A	2.4
5	☐	1.000		28351060.41		A	0.2
6	☐	1.000		28900932.07		A	2.6
7	☐	1.000		29824022.06		A	1.9
8	☐	1.000		26292481.55		A	2.3

159 Tb (ISTD) [He]

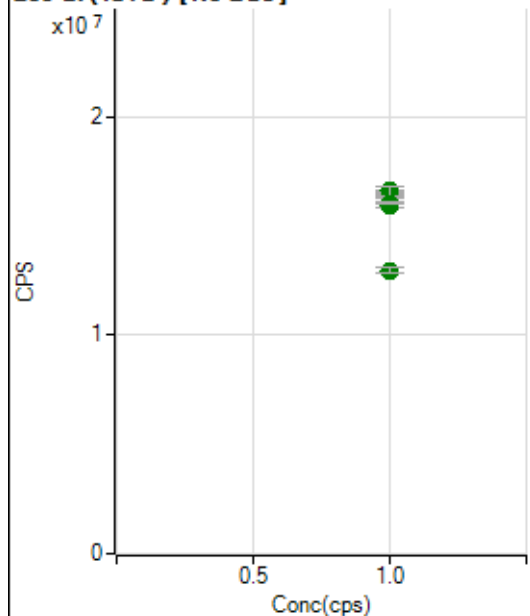
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		18600051.67		A	0.3
2	☐	1.000		18716099.72		A	0.5
3	☐	1.000		18216543.76		A	1.7
4	☐	1.000		18534175.56		A	0.7
5	☐	1.000		18802855.69		A	0.6
6	☐	1.000		19094606.38		A	0.1
7	☐	1.000		19100521.38		A	0.7
8	☐	1.000		17484904.32		A	0.4

165 Ho (ISTD) [No Gas]

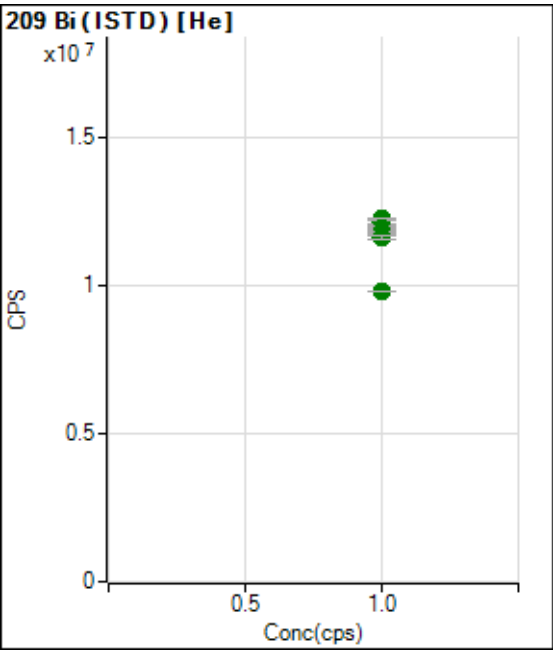
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		27601158.48		A	1.4
2	☐	1.000		27882782.92		A	0.7
3	☐	1.000		26888856.54		A	1.5
4	☐	1.000		28052925.97		A	1.8
5	☐	1.000		27444339.59		A	0.8
6	☐	1.000		27725531.53		A	3.1
7	☐	1.000		28521049.57		A	0.5
8	☐	1.000		25038233.79		A	2.5

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		18306992.78		A	0.3
2	☐	1.000		18550472.08		A	0.4
3	☐	1.000		17946994.73		A	0.6
4	☐	1.000		18343079.03		A	0.8
5	☐	1.000		18428589.45		A	0.4
6	☐	1.000		18992962.22		A	1.1
7	☐	1.000		18906943.89		A	0.2
8	☐	1.000		17332162.10		A	1.1

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		16393535.86		A	0.3
2	☐	1.000		16576785.45		A	0.7
3	☐	1.000		15927693.79		A	1.5
4	☐	1.000		16609273.23		A	2.6
5	☐	1.000		16030789.48		A	0.5
6	☐	1.000		16050783.10		A	2.6
7	☐	1.000		16039801.15		A	0.6
8	☐	1.000		12952764.25		A	2.1



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		12172369.68		A	1.3
2	☐	1.000		12276839.12		A	0.7
3	☐	1.000		11812433.16		A	0.4
4	☐	1.000		11987954.54		A	0.9
5	☐	1.000		12004298.99		A	0.5
6	☐	1.000		11853009.68		A	0.3
7	☐	1.000		11645208.86		A	0.8
8	☐	1.000		9826586.87		A	0.4

US EPA Tune Check Report

Operator Name Jaswal

Acq/Data Batch D:\Agilent\ICPMH\1\DATA\IP7110824MS3.b

Acq. Date-Time 2024-11-09 20:58:33

Report Comment ---

Instrument Name G8403A JP14410463

[No Gas]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
9		26982	269816.18			0.530	5.000
24		152985	1529846.67			0.905	5.000
25		19922	199215.55			0.428	5.000
26		23039	230387.27			0.184	5.000
59		206180	2061804.17			0.828	5.000
113		27109	271092.32			0.514	5.000
115		338719	3387192.52			2.314	5.000
206		67299	672993.03			0.984	5.000
207		57552	575521.40			0.637	5.000
208		136567	1365665.59			1.437	5.000
220		0	2.70			28.085	

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

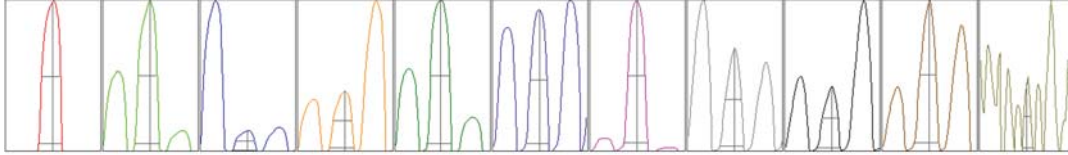
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	27055	27073	27071	26973	26737
24	152299	151496	153749	154995	152385
25	19822	19903	19884	19949	20051
26	23027	22995	23066	23008	23098
59	207443	206399	208173	204542	204344
113	27338	27081	27126	27015	26986
115	348064	345772	332331	336687	330742
206	68179	67657	67208	67033	66420
207	58046	57626	57650	57389	57050
208	139321	135451	137812	135782	134466

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	47277.24	9.00	8.90 - 9.10	
24	269186.41	24.00	23.90 - 24.10	
25	35353.94	25.00	24.90 - 25.10	
26	41410.96	26.00	25.90 - 26.10	
59	353962.63	58.95	58.90 - 59.10	
113	52453.35	113.00	112.90 - 113.10	
115	649960.78	115.00	114.90 - 115.10	
206	138270.53	206.00	205.90 - 206.10	
207	119607.44	207.00	206.90 - 207.10	
208	277813.46	208.00	207.90 - 208.10	
220	0.45	220.00	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.59	0.734	0.900	
24	0.60	0.777	0.900	
25	0.60	0.745	0.900	
26	0.59	0.778	0.900	
59	0.60	0.770	0.900	
113	0.53	0.736	0.900	
115	0.53	0.761	0.900	
206	0.50	0.758	0.900	
207	0.50	0.719	0.900	
208	0.51	0.772	0.900	
220	0.24	0.338		

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	8.2 V	Deflect	15.8 V
Extract 2	-175.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-75 V	Cell Exit	-50 V		

Cell Parameters

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

QP Parameters

Mass Gain	136	Axis Gain	0.9976	QP Bias	-3.0 V
Mass Offset	130	Axis Offset	0.13		

Hardware Settings

Torch

Torch H	1.1 mm	Torch V	0.4 mm
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EM

Discriminator	4.7 mV	Analog HV	2195 V	Pulse HV	941 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		73951	739514.50			0.916	
89		112524	1125236.09			0.651	
205		66937	669366.97			1.326	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	74802	74405	73787	73720	73044
89	113307	112883	112563	111339	112527
205	68119	67470	66791	66478	65825

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	8.5 V	Deflect	3.4 V
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US EPA Tune Check Report

Extract 2	-170.0 V	Cell Entrance	-40 V	Plate Bias	-60 V
Omega Bias	-85 V	Cell Exit	-60 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	3.9 mL/min	OctP Bias	-18.0 V		
H2 Flow	---	OctP RF	200 V		

QP Parameters

Mass Gain	136	Axis Gain	0.9976	QP Bias	-13.0 V
Mass Offset	130	Axis Offset	0.13		

Hardware Settings

Torch

Torch H	1.1 mm	Torch V	0.4 mm
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EM

Discriminator	4.7 mV	Analog HV	2195 V	Pulse HV	941 V
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