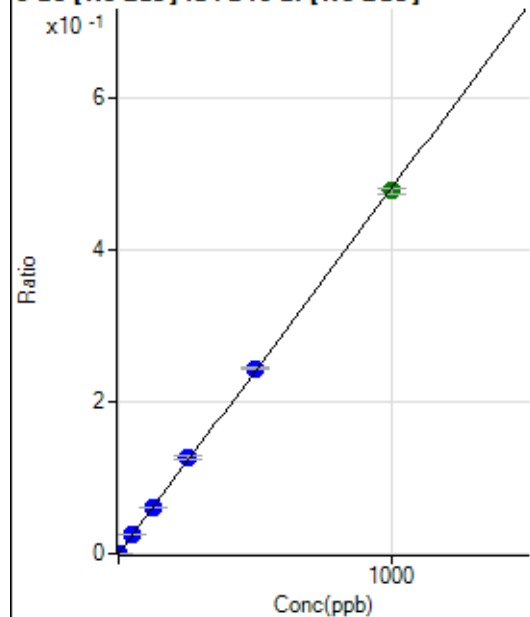


Batch Folder: D:\Agilent\ICPMH\1\DATA\P8042123MS.b\
Analysis File: P8042123MS.batch.bin
DA Date-Time: 2023-04-21 15:34:05
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	003CALB.d	S00	2023-04-21 11:33:41
2	005CALS.d	S02	2023-04-21 11:39:52
3	007CALS.d	S03	2023-04-21 11:46:03
4	008CALS.d	S04	2023-04-21 11:49:05
5	009CALS.d	S05	2023-04-21 11:52:03
6	010CALS.d	S06	2023-04-21 11:55:04
7	011CALS.d	S07	2023-04-21 11:58:02
8	012CALS.d	S08	2023-04-21 12:01:03

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	44.58	0.0000	P	9.9
2	☐	1.000	1.090	1621.97	0.0005	P	2.9
3	☐	50.000	50.880	76457.30	0.0245	P	2.5
4	☐	125.000	128.553	192190.55	0.0619	P	0.3
5	☐	250.000	261.850	382770.41	0.1261	P	4.4
6	☐	500.000	506.874	745629.75	0.2441	P	1.1
7	☐	1000.000	993.112	1467071.50	0.4783	A	1.6
8	☐			633.69	0.0002	P	9.6

$$y = 4.8164\text{E-}004 * x + 1.4921\text{E-}005$$

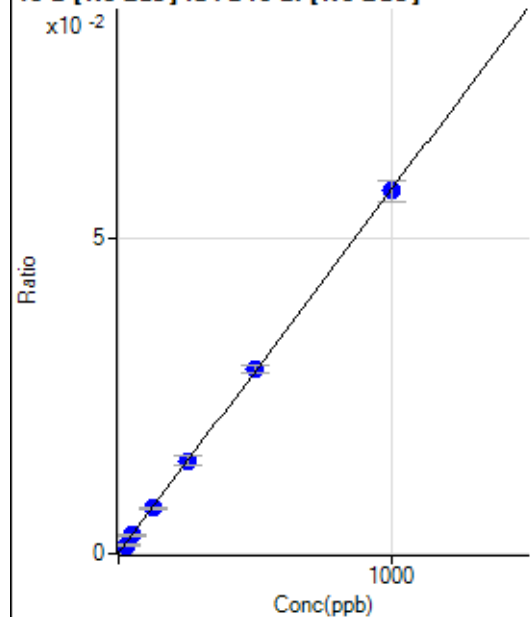
$$R = 0.9999$$

$$DL = 0.009204$$

$$BEC = 0.03098$$

Weight: <None>

Min Conc: 0

10 B [No Gas] ISTD:6 Li [No Gas]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	356.60	0.0001	P	11.9
2	☐	25.000	21.521	4086.44	0.0014	P	5.1
3	☐	50.000	48.896	9161.73	0.0029	P	6.1
4	☐	125.000	122.381	22257.11	0.0072	P	5.4
5	☐	250.000	252.835	44509.76	0.0147	P	9.9
6	☐	500.000	506.897	89594.60	0.0293	P	3.9
7	☐	1000.000	996.312	176406.57	0.0575	P	6.0
8	☐			11846.48	0.0039	P	8.7

$$y = 5.7630\text{E-}005 * x + 1.1947\text{E-}004$$

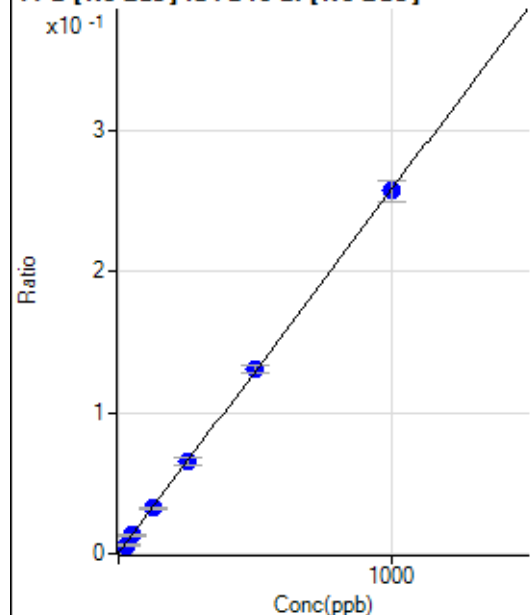
$$R = 0.9999$$

$$DL = 0.74$$

$$BEC = 2.073$$

Weight: <None>

Min Conc: 0

11 B [No Gas] ISTD:6 Li [No Gas]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	1533.78	0.0005	P	1.8
2	☐	25.000	21.728	18368.54	0.0061	P	6.3
3	☐	50.000	48.380	40481.65	0.0130	P	5.2
4	☐	125.000	124.073	100808.27	0.0325	P	5.2
5	☐	250.000	252.140	198480.21	0.0655	P	8.8
6	☐	500.000	506.420	400145.74	0.1310	P	4.0
7	☐	1000.000	996.534	788896.20	0.2573	P	5.9
8	☐			51480.05	0.0171	P	11.1

$$y = 2.5769E-004 * x + 5.1257E-004$$

$$R = 1.0000$$

$$DL = 0.1079$$

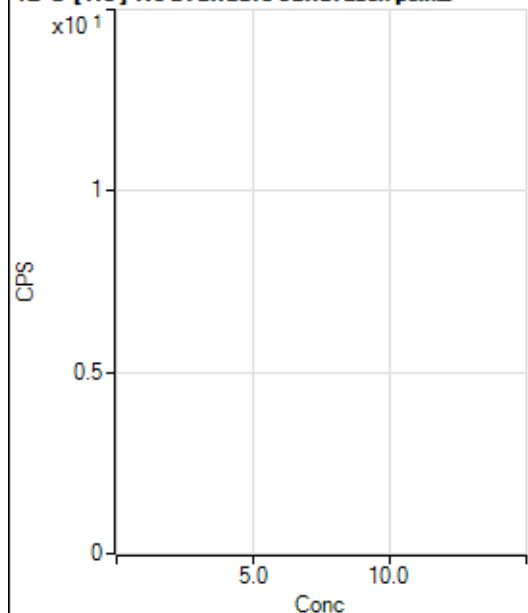
$$BEC = 1.989$$

Weight: <None>

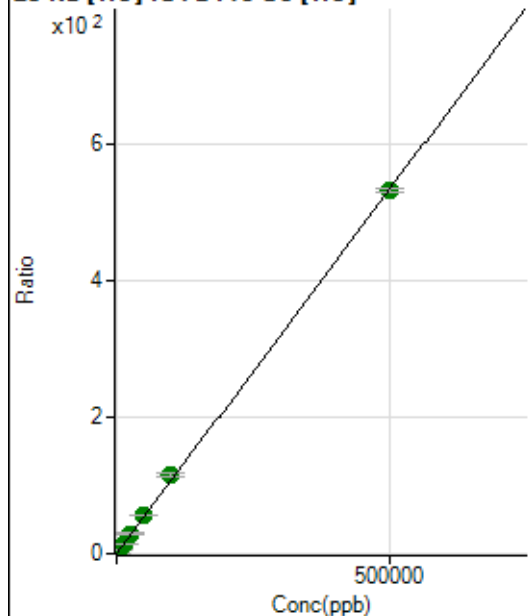
Min Conc: 0

12 C [No Gas] No available calibration points

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐			4017951.39		A	1.5
2	☐			5168751.12		A	1.9
3	☐			4011137.46		A	3.3
4	☐			4356358.99		A	0.7
5	☐			4211517.37		A	2.2
6	☐			4267589.68		A	1.6
7	☐			4487171.76		A	4.4
8	☐			4051543.15		A	1.7

12 C [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			46761.32		P	2.8
2	☐			58865.67		P	0.8
3	☐			47728.04		P	1.7
4	☐			52466.30		P	1.0
5	☐			50495.77		P	0.2
6	☐			52405.18		P	0.7
7	☐			56079.78		P	0.7
8	☐			52475.02		P	1.2

23 Na [He] ISTD:45 Sc [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	19254.77	0.1103	P	1.2
2	☐	500.000	502.113	114016.53	0.6451	P	0.4
3	☐	5000.000	5499.818	1057054.77	5.9686	A	4.7
4	☐	12500.000	13553.590	2586442.44	14.5472	A	2.0
5	☐	25000.000	27258.625	5079846.25	29.1454	A	7.2
6	☐	50000.000	53087.676	9943651.27	56.6578	A	1.1
7	☐	100000.00	107141.13	20416996.46	114.2341	A	4.7
8	☐	500000.00	498118.73	94292071.55	530.6927	A	0.9

$$y = 0.0011 * x + 0.1103$$

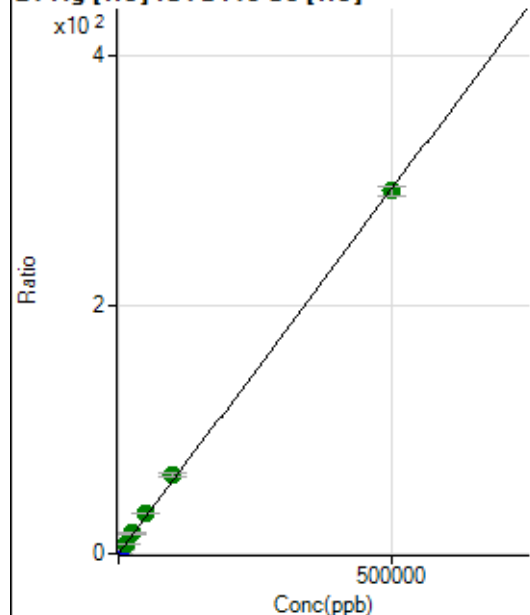
$$R = 0.9999$$

$$DL = 3.617$$

$$BEC = 103.6$$

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	244.46	0.0014	P	48.2
2	☐	500.000	508.686	52958.16	0.2997	P	2.0
3	☐	5000.000	5414.258	562567.50	3.1764	P	3.5
4	☐	12500.000	14097.814	1470141.23	8.2686	A	2.0
5	☐	25000.000	28482.979	2910314.09	16.7043	A	8.6
6	☐	50000.000	55032.204	5664272.04	32.2732	A	0.8
7	☐	100000.00	108753.13	11399216.40	63.7761	A	4.1
8	☐	500000.00	497527.90	51828981.37	291.7603	A	2.8

$$y = 5.8642\text{E-}004 * x + 0.0014$$

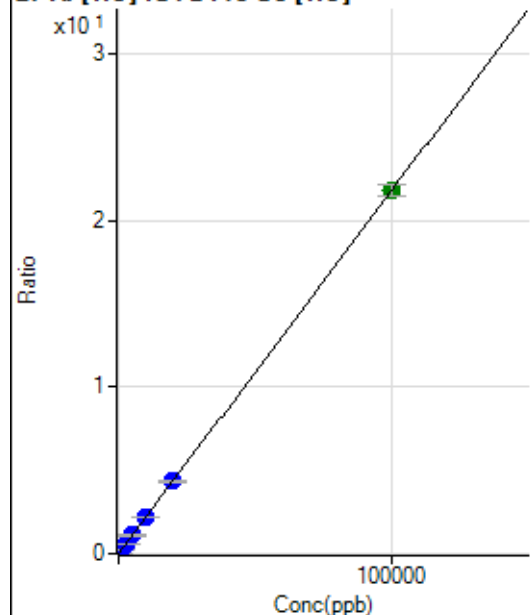
$$R = 0.9998$$

$$DL = 3.446$$

$$BEC = 2.385$$

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	70.82	0.0004	P	4.4
2	☐	20.000	19.419	818.26	0.0046	P	6.0
3	☐	1000.000	1028.680	39724.27	0.2243	P	2.7
4	☐	2500.000	2568.413	99445.12	0.5594	P	2.8
5	☐	5000.000	5100.512	193552.96	1.1104	P	6.8
6	☐	10000.000	10204.527	389846.97	2.2212	P	1.7
7	☐	20000.000	19980.370	777269.28	4.3486	P	4.0
8	☐	100000.00	99976.451	3864984.57	21.7578	A	3.2

$$y = 2.1762\text{E-}004 * x + 4.0572\text{E-}004$$

$$R = 1.0000$$

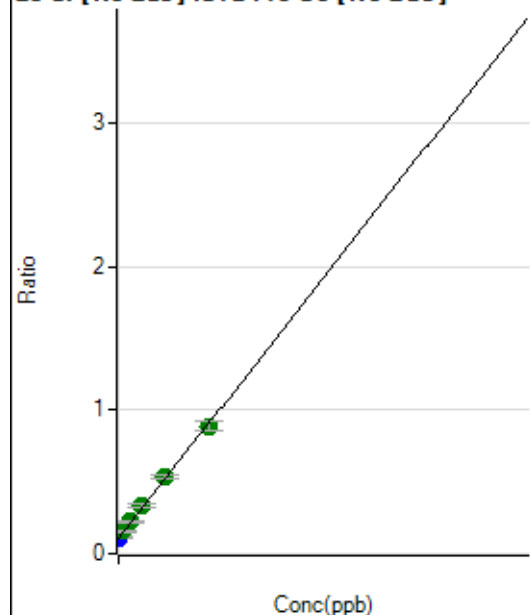
$$DL = 0.2445$$

$$BEC = 1.864$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	662922.55	0.1071	P	3.4
2	☐	10.000	7.426	716804.31	0.1131	P	2.1
3	☐	50.000	60.019	994971.93	0.1554	A	2.6
4	☐	125.000	148.106	1437829.30	0.2264	A	5.6
5	☐	250.000	282.677	2142098.33	0.3347	A	5.6
6	☐	500.000	527.529	3361306.56	0.5318	A	4.7
7	☐	1000.000	974.703	5762341.97	0.8919	A	6.8
8	☐			1280312.84	0.2015	A	1.1

$$y = 8.0511\text{E-}004 * x + 0.1071$$

R = 0.9986

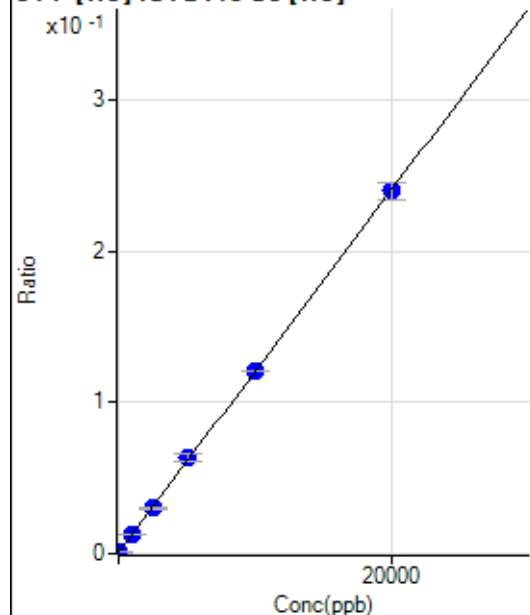
DL = 13.45

BEC = 133

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	-2.835	130.56	0.0007	P	37.6
2	☐	0.000	2.835	144.45	0.0008	P	16.6
3	☐	1000.000	980.796	2222.45	0.0125	P	4.5
4	☐	2500.000	2440.066	5334.46	0.0300	P	4.0
5	☐	5000.000	5203.801	10996.18	0.0631	P	7.8
6	☐	10000.000	10014.365	21185.36	0.1207	P	0.4
7	☐	20000.000	19950.319	42841.68	0.2397	P	4.9
8	☐			113.89	0.0006	P	21.0

$$y = 1.1975\text{E-}005 * x + 7.8244\text{E-}004$$

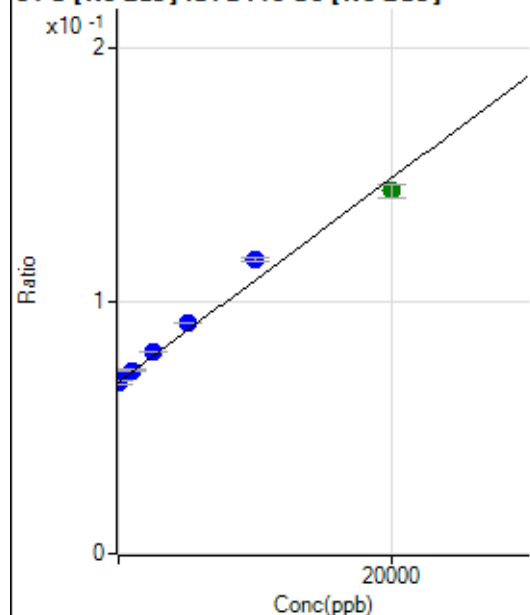
R = 0.9999

DL = 52.21

BEC = 65.34

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	34.528	421408.20	0.0681	P	4.1
2	☐	0.000	-34.528	429863.19	0.0678	P	2.4
3	☐	1000.000	1106.556	463486.52	0.0724	P	1.4
4	☐	2500.000	2919.522	506548.79	0.0797	P	0.6
5	☐	5000.000	5816.344	585145.98	0.0914	P	0.3
6	☐	10000.000	12012.913	735657.24	0.1164	P	0.8
7	☐	20000.000	18731.689	927682.09	0.1435	A	3.4
8	☐			389151.36	0.0612	P	1.5

$$y = 4.0327E-006 * x + 0.0680$$

$$R = 0.9909$$

$$DL = 1648$$

$$BEC = 1.685E+04$$

Weight: <None>

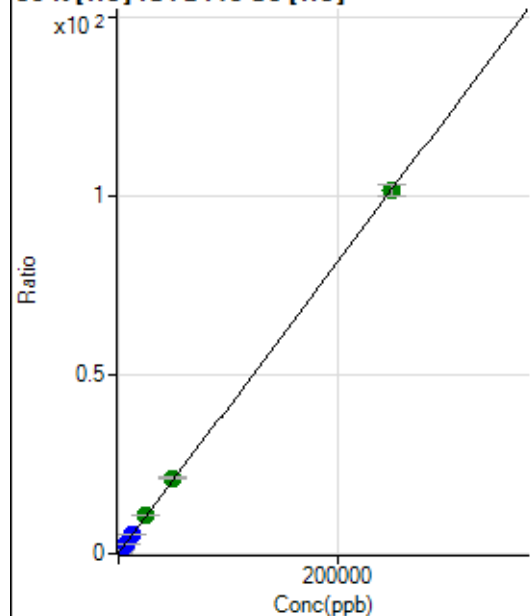
Min Conc: 0

35 Cl [No Gas] No available calibration points

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			594920.87		P	0.7
2	☐			555633.35		P	0.8
3	☐			588530.57		P	1.1
4	☐			576161.77		P	0.6
5	☐			566514.58		P	1.2
6	☐			550008.15		P	0.5
7	☐			543319.57		P	0.6
8	☐			543810.28		P	0.5

35 Cl [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			4170.15		P	5.4
2	☐			3514.40		P	4.2
3	☐			3553.32		P	5.9
4	☐			3833.93		P	1.4
5	☐			3500.52		P	9.0
6	☐			3614.43		P	3.1
7	☐			3328.25		P	0.5
8	☐			3497.73		P	7.2

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	22954.78	0.1315	P	2.7
2	☐	500.000	478.255	57584.65	0.3259	P	1.6
3	☐	2500.000	2545.518	206459.03	1.1661	P	4.4
4	☐	6250.000	6350.065	482215.83	2.7123	P	2.6
5	☐	12500.000	12895.269	936623.68	5.3724	P	6.1
6	☐	25000.000	26550.582	1917062.37	10.9223	A	1.3
7	☐	50000.000	51890.864	3792995.79	21.2211	A	4.2
8	☐	250000.00	249444.09	18032092.24	101.5111	A	3.2

$$y = 4.0642\text{E-}004 * x + 0.1315$$

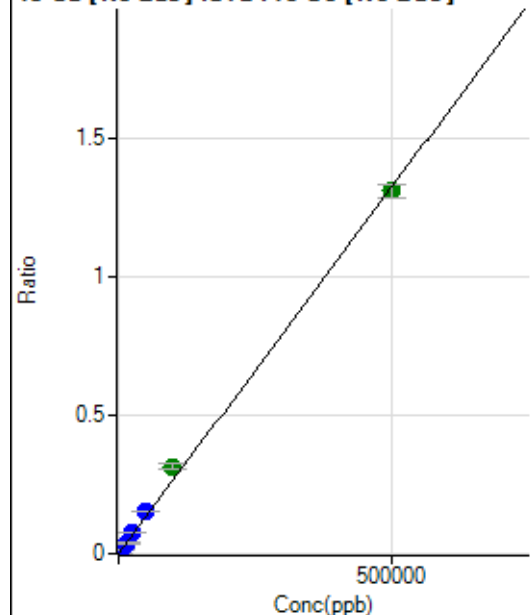
$$R = 1.0000$$

$$DL = 26.27$$

$$BEC = 323.6$$

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	110.82	0.0000	P	14.6
2	☐	500.000	511.458	8701.97	0.0014	P	2.9
3	☐	5000.000	5772.377	97993.04	0.0153	P	1.0
4	☐	12500.000	14415.704	242761.47	0.0382	P	0.9
5	☐	25000.000	28352.525	480931.00	0.0751	P	1.0
6	☐	50000.000	57573.150	964209.19	0.1526	P	1.3
7	☐	100000.00	119179.39	2040804.20	0.3158	A	5.0
8	☐	500000.00	495183.55	8333449.37	1.3120	A	3.9

$$y = 2.6495E-006 * x + 1.7951E-005$$

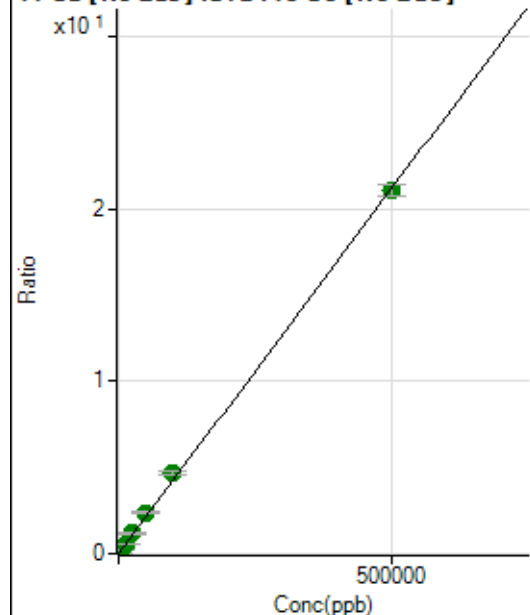
$$R = 0.9992$$

$$DL = 2.977$$

$$BEC = 6.775$$

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	17227.26	0.0028	P	3.3
2	☐	500.000	506.619	153826.29	0.0243	P	2.1
3	☐	5000.000	5675.966	1558289.41	0.2435	A	2.2
4	☐	12500.000	14270.179	3862190.30	0.6080	A	2.1
5	☐	25000.000	27740.948	7548177.27	1.1793	A	1.4
6	☐	50000.000	56152.819	15070091.26	2.3842	A	2.2
7	☐	100000.00	111120.72	30480804.53	4.7154	A	4.0
8	☐	500000.00	496972.50	133899801.0	21.0795	A	3.0

$$y = 4.2410E-005 * x + 0.0028$$

$$R = 0.9997$$

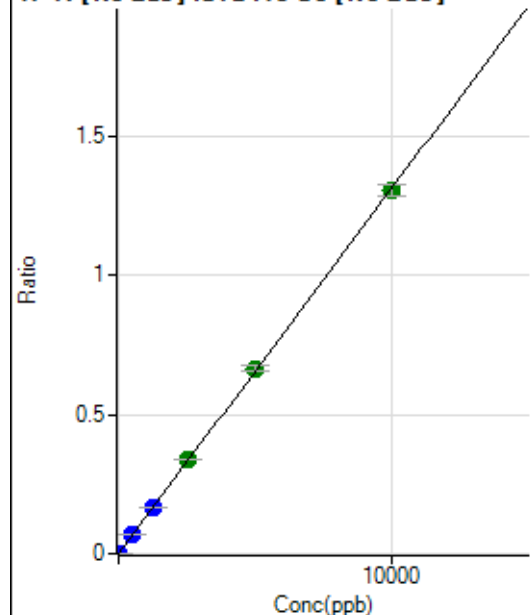
$$DL = 6.521$$

$$BEC = 65.63$$

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	152.78	0.0000	P	6.6
2	☐	5.000	4.590	3964.53	0.0006	P	7.3
3	☐	500.000	506.233	424533.17	0.0663	P	0.2
4	☐	1250.000	1269.858	1056698.45	0.1663	P	2.2
5	☐	2500.000	2580.326	2163375.22	0.3380	A	0.9
6	☐	5000.000	5077.295	4203472.49	0.6650	A	2.6
7	☐	10000.000	9938.477	8416646.98	1.3017	A	3.0
8	☐			1147.30	0.0002	P	18.9

$$y = 1.3098\text{E-}004 * x + 2.4704\text{E-}005$$

$$R = 0.9999$$

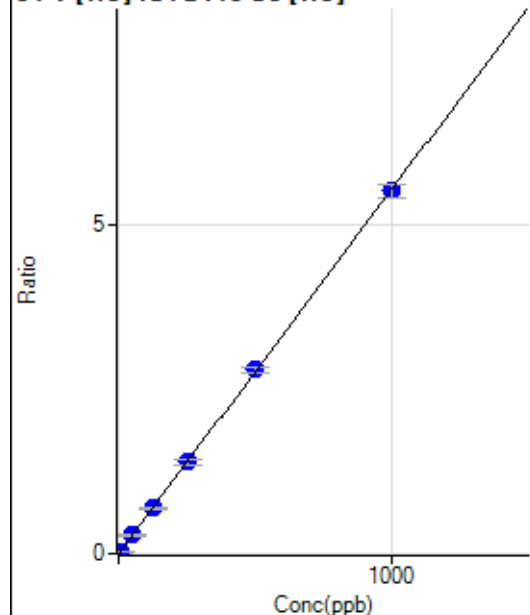
$$DL = 0.0375$$

$$BEC = 0.1886$$

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	4.45	0.0000	P	86.6
2	☐	5.000	4.910	4800.85	0.0272	P	0.2
3	☐	50.000	50.386	49316.99	0.2785	P	3.8
4	☐	125.000	124.374	122209.61	0.6874	P	3.6
5	☐	250.000	252.873	243666.61	1.3976	P	5.9
6	☐	500.000	505.404	490256.62	2.7933	P	2.5
7	☐	1000.000	996.639	984574.81	5.5083	P	3.5
8	☐			312.23	0.0018	P	5.4

$$y = 0.0055 * x + 2.5528\text{E-}005$$

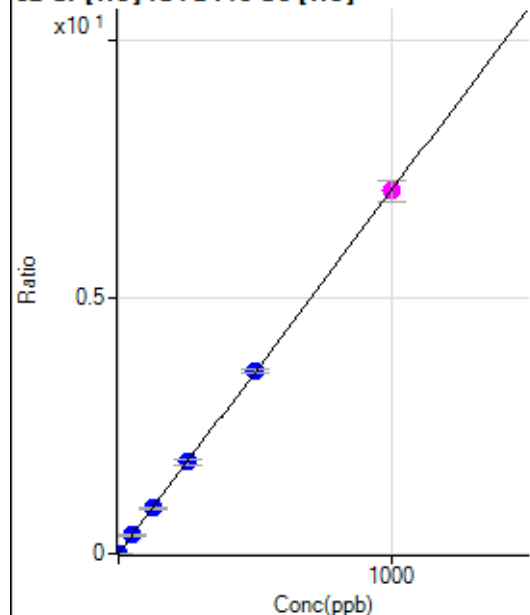
$$R = 1.0000$$

$$DL = 0.012$$

$$BEC = 0.004619$$

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	622.24	0.0036	P	7.4
2	☐	2.000	2.009	3140.38	0.0178	P	5.5
3	☐	50.000	50.149	63469.02	0.3584	P	3.3
4	☐	125.000	124.036	156653.22	0.8811	P	2.4
5	☐	250.000	251.714	311139.61	1.7844	P	5.5
6	☐	500.000	502.591	624702.51	3.5594	P	1.5
7	☐	1000.000	998.389	1263100.60	7.0671	M	5.6
8	☐			9810.09	0.0552	P	4.8

$$y = 0.0071 * x + 0.0036$$

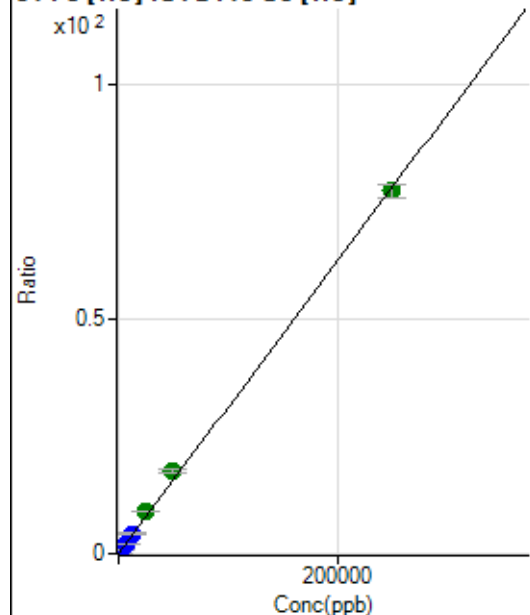
$$R = 1.0000$$

$$DL = 0.1114$$

$$BEC = 0.5038$$

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	607.43	0.0035	P	14.2
2	☐	50.000	51.629	3456.03	0.0196	P	3.3
3	☐	2500.000	2723.211	150787.44	0.8514	P	4.4
4	☐	6250.000	6639.601	368187.10	2.0709	P	2.7
5	☐	12500.000	13446.965	730582.69	4.1906	P	6.1
6	☐	25000.000	28686.430	1568307.11	8.9359	A	1.2
7	☐	50000.000	56409.867	3140278.37	17.5685	A	3.0
8	☐	250000.00	248290.06	13733757.02	77.3167	A	3.5

$$y = 3.1138E-004 * x + 0.0035$$

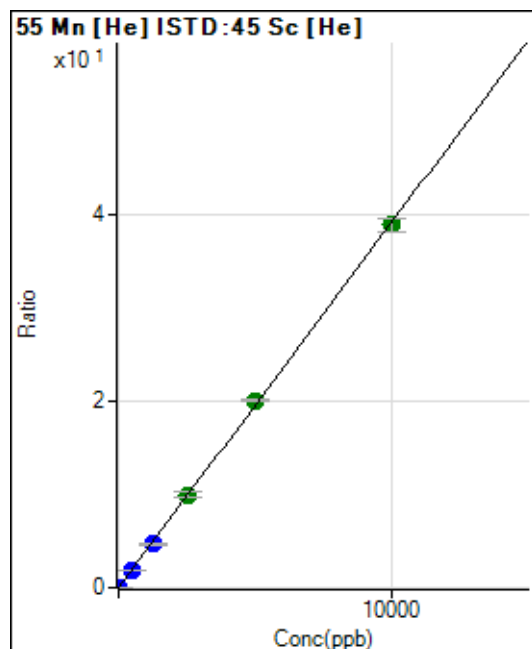
$$R = 0.9996$$

$$DL = 4.746$$

$$BEC = 11.17$$

Weight: <None>

Min Conc: 0



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	65.56	0.0004	P	15.2
2	☐	1.000	1.021	772.25	0.0044	P	7.7
3	☐	500.000	477.707	331029.10	1.8691	P	3.3
4	☐	1250.000	1201.066	835375.00	4.6988	P	2.9
5	☐	2500.000	2540.332	1732318.13	9.9379	A	6.8
6	☐	5000.000	5122.094	3516914.36	20.0374	A	1.3
7	☐	10000.000	9936.102	6947599.06	38.8692	A	3.6
8	☐			3098.14	0.0174	P	3.9

$$y = 0.0039 * x + 3.7574E-004$$

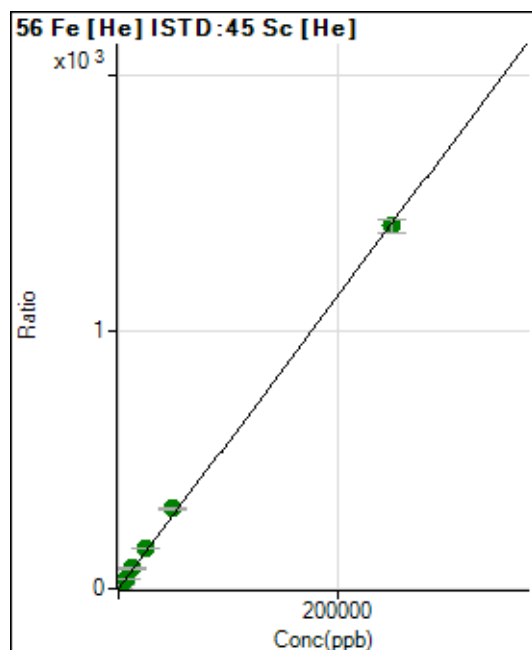
$$R = 0.9999$$

$$DL = 0.04382$$

$$BEC = 0.09605$$

Weight: <None>

Min Conc: 0



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	4247.00	0.0243	P	4.4
2	☐	50.000	51.372	55829.64	0.3159	P	1.3
3	☐	2500.000	2819.234	2837439.50	16.0261	A	4.4
4	☐	6250.000	6958.181	7025980.60	39.5185	A	2.4
5	☐	12500.000	13923.144	13785630.17	79.0511	A	5.0
6	☐	25000.000	27895.348	27793056.18	158.3563	A	1.8
7	☐	50000.000	54844.232	55643994.76	311.3162	A	3.6
8	☐	250000.00	248649.56	250689127.8	1,411.341	A	3.9

$$y = 0.0057 * x + 0.0243$$

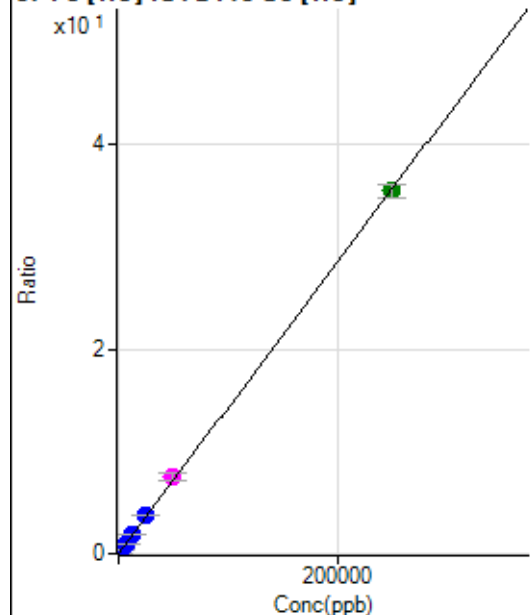
$$R = 0.9998$$

$$DL = 0.5715$$

$$BEC = 4.286$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	170.38	0.0010	P	23.3
2	☐	50.000	50.499	1444.54	0.0082	P	10.5
3	☐	2500.000	2627.939	66471.27	0.3754	P	3.7
4	☐	6250.000	6448.477	163497.41	0.9197	P	3.5
5	☐	12500.000	13287.354	330242.89	1.8940	P	5.6
6	☐	25000.000	26446.192	661430.28	3.7687	P	1.8
7	☐	50000.000	52724.020	1342623.01	7.5125	M	8.1
8	☐	250000.00	249264.96	6308365.65	35.5133	A	3.4

$$y = 1.4247\text{E-}004 * x + 9.7661\text{E-}004$$

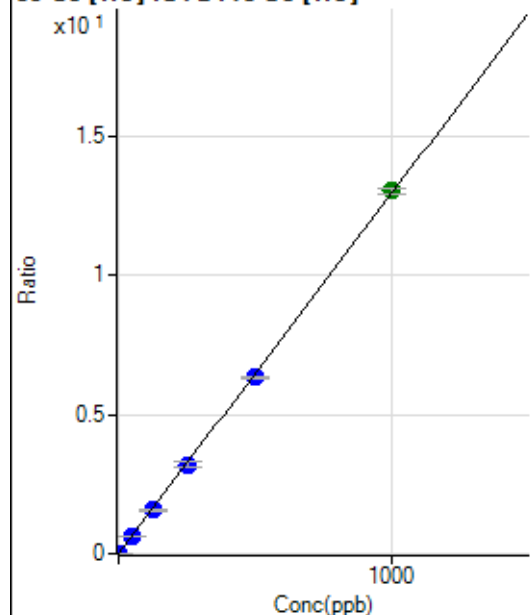
$$R = 0.9999$$

$$DL = 4.798$$

$$BEC = 6.855$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	51.11	0.0003	P	13.6
2	☐	1.000	0.977	2285.76	0.0129	P	4.2
3	☐	50.000	49.054	112541.19	0.6354	P	3.3
4	☐	125.000	121.068	278742.18	1.5679	P	2.8
5	☐	250.000	247.711	559155.14	3.2076	P	6.5
6	☐	500.000	488.384	1109881.37	6.3238	P	1.5
7	☐	1000.000	1006.919	2330534.69	13.0377	A	1.9
8	☐			1815.69	0.0102	P	7.1

$$y = 0.0129 * x + 2.9279\text{E-}004$$

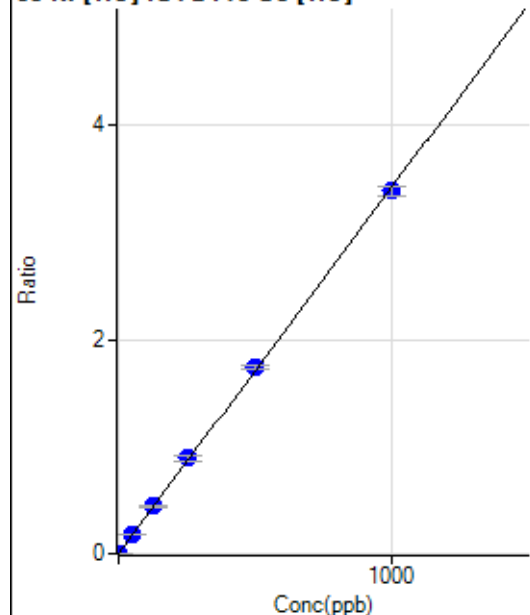
$$R = 0.9999$$

$$DL = 0.0092$$

$$BEC = 0.02261$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	105.56	0.0006	P	14.7
2	☐	1.000	0.982	700.02	0.0040	P	6.2
3	☐	50.000	52.175	31664.31	0.1788	P	2.4
4	☐	125.000	128.973	78400.29	0.4410	P	2.4
5	☐	250.000	260.428	155151.81	0.8898	P	5.5
6	☐	500.000	511.273	306485.05	1.7463	P	1.8
7	☐	1000.000	991.151	605027.78	3.3848	P	2.8
8	☐			1757.90	0.0099	P	3.8

$$y = 0.0034 * x + 6.0457E-004$$

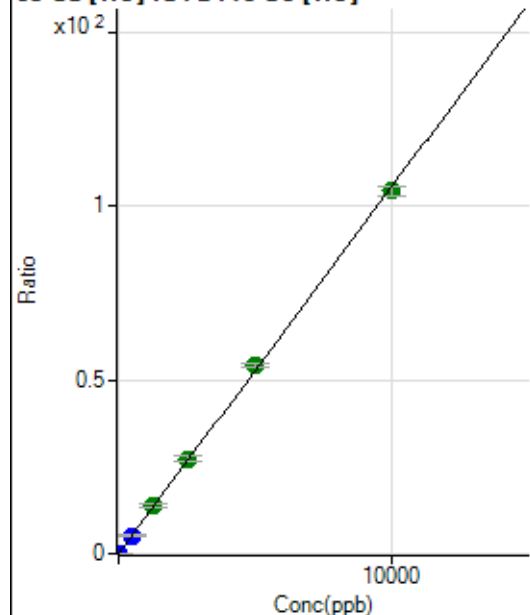
$$R = 0.9998$$

$$DL = 0.07822$$

$$BEC = 0.1771$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	977.82	0.0056	P	2.9
2	☐	2.000	1.926	4585.23	0.0259	P	2.6
3	☐	500.000	492.754	922523.83	5.2082	P	4.0
4	☐	1250.000	1311.313	2461898.40	13.8506	A	5.7
5	☐	2500.000	2593.961	4775316.73	27.3929	A	6.4
6	☐	5000.000	5145.517	9535696.32	54.3326	A	1.6
7	☐	10000.000	9896.449	18678415.28	104.4934	A	2.5
8	☐			3761.64	0.0212	P	5.3

$$y = 0.0106 * x + 0.0056$$

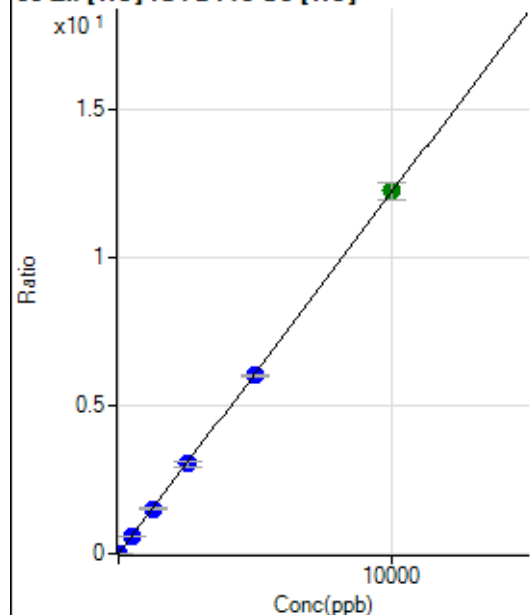
$$R = 0.9998$$

$$DL = 0.04577$$

$$BEC = 0.5306$$

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	148.89	0.0009	P	15.3
2	☐	2.000	2.350	657.80	0.0037	P	9.1
3	☐	500.000	498.528	107866.06	0.6089	P	2.2
4	☐	1250.000	1235.996	268159.25	1.5083	P	2.7
5	☐	2500.000	2491.440	529929.34	3.0395	P	5.9
6	☐	5000.000	4924.684	1054309.11	6.0072	P	0.8
7	☐	10000.000	10041.622	2189090.59	12.2480	A	4.5
8	☐			9247.54	0.0521	P	2.7

$$y = 0.0012 * x + 8.5329E-004$$

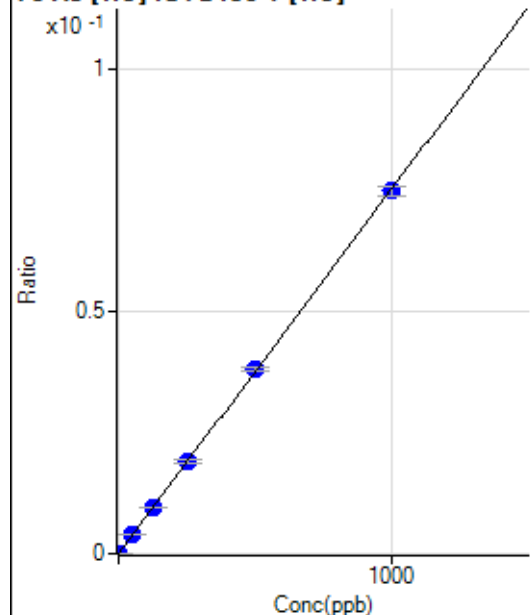
$$R = 1.0000$$

$$DL = 0.3207$$

$$BEC = 0.6996$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	2.67	0.0000	P	42.1
2	☐	1.000	1.000	122.34	0.0001	P	7.6
3	☐	50.000	51.926	6063.59	0.0039	P	3.0
4	☐	125.000	124.907	15033.50	0.0094	P	0.6
5	☐	250.000	253.222	29831.67	0.0191	P	6.1
6	☐	500.000	507.048	59786.89	0.0382	P	1.8
7	☐	1000.000	995.586	119912.47	0.0750	P	2.8
8	☐			31.00	0.0000	P	9.6

$$y = 7.5326E-005 * x + 1.7016E-006$$

$$R = 1.0000$$

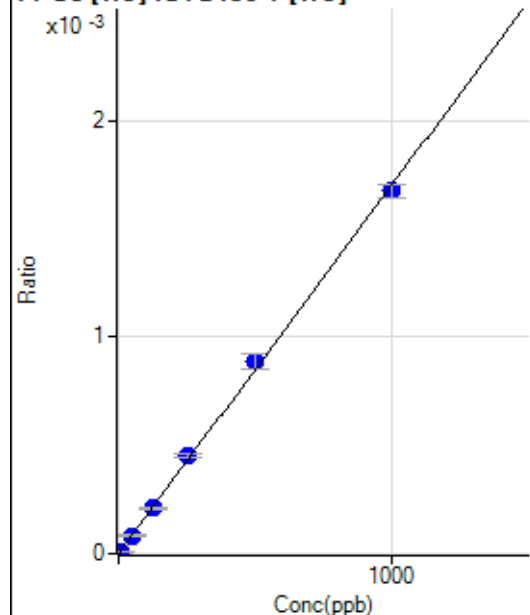
$$DL = 0.02851$$

$$BEC = 0.02259$$

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	4.523	13.33	0.0000	P	23.8
3	☐	50.000	48.560	128.89	0.0001	P	3.2
4	☐	125.000	124.013	337.78	0.0002	P	4.7
5	☐	250.000	266.170	708.91	0.0005	P	3.2
6	☐	500.000	521.606	1387.86	0.0009	P	7.9
7	☐	1000.000	985.352	2676.95	0.0017	P	3.8
8	☐			3.33	0.0000	P	100.

$$y = 1.6985\text{E-}006 * x + 7.0216\text{E-}007$$

$$R = 0.9995$$

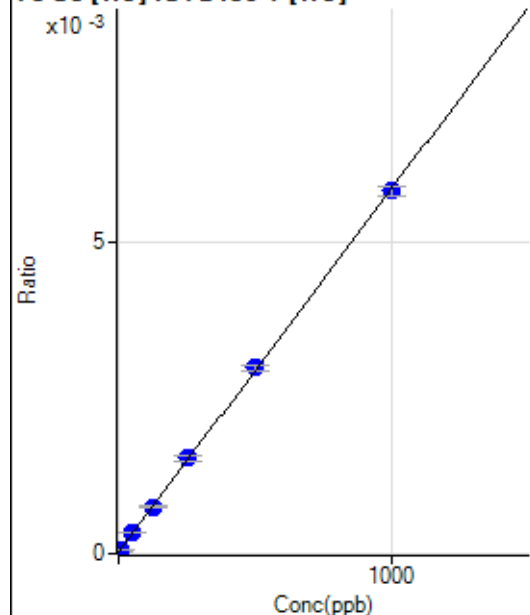
$$DL = 2.148$$

$$BEC = 0.4134$$

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	42.33	0.0000	P	3.5
2	☐	5.000	4.272	82.68	0.0001	P	9.8
3	☐	50.000	53.933	529.73	0.0003	P	1.0
4	☐	125.000	123.977	1198.50	0.0008	P	2.2
5	☐	250.000	257.918	2395.78	0.0015	P	5.9
6	☐	500.000	507.056	4673.25	0.0030	P	2.9
7	☐	1000.000	994.427	9320.36	0.0058	P	2.5
8	☐			51.67	0.0000	P	7.1

$$y = 5.8346\text{E-}006 * x + 2.7106\text{E-}005$$

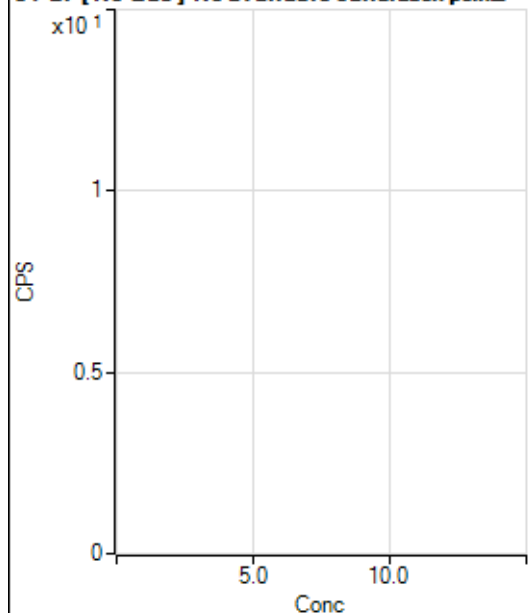
$$R = 0.9999$$

$$DL = 0.4913$$

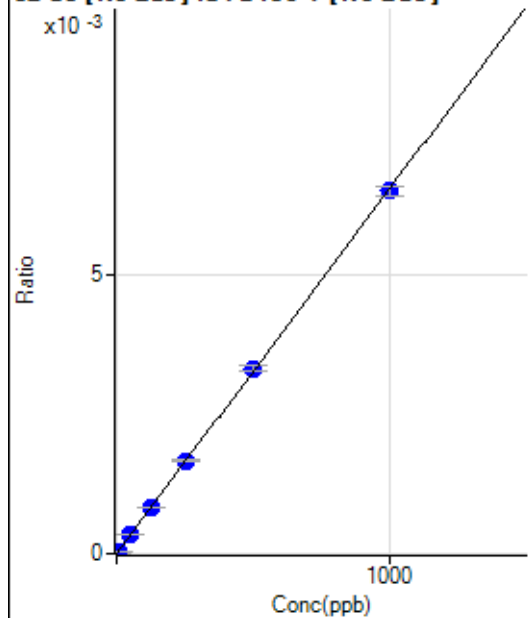
$$BEC = 4.646$$

Weight: <None>

Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			33488.32		P	1.4
2	☐			34126.08		P	0.8
3	☐			34120.26		P	3.8
4	☐			33602.47		P	1.7
5	☐			33193.07		P	0.8
6	☐			33184.59		P	2.2
7	☐			33009.32		P	1.6
8	☐			34373.83		P	3.1

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	5.83	0.0000	P	472.
2	☐	5.000	5.217	539.96	0.0000	P	9.8
3	☐	50.000	52.226	5404.25	0.0003	P	2.2
4	☐	125.000	126.642	13269.07	0.0008	P	1.1
5	☐	250.000	255.024	26559.02	0.0017	P	2.1
6	☐	500.000	507.347	52680.71	0.0033	P	3.0
7	☐	1000.000	994.753	103624.41	0.0065	P	2.4
8	☐			97.91	0.0000	P	37.3

$$y = 6.5388E-006 * x + 4.2043E-007$$

$$R = 0.9999$$

$$DL = 0.9122$$

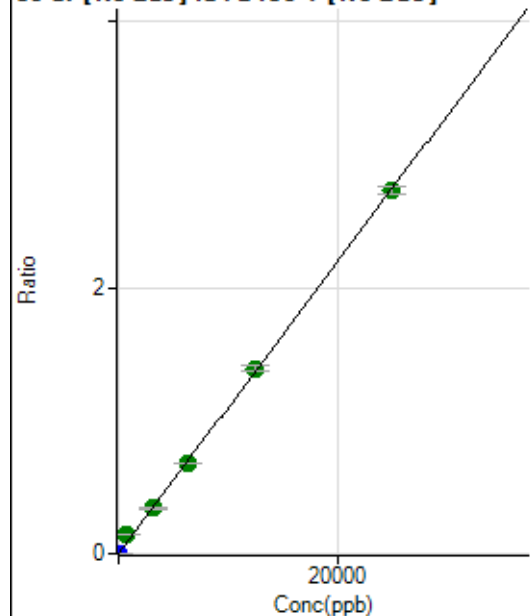
$$BEC = 0.0643$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			310.80		P	6.4
2	☐			325.38		P	4.6
3	☐			318.30		P	8.7
4	☐			295.39		P	7.5
5	☐			323.30		P	5.1
6	☐			325.38		P	2.4
7	☐			312.05		P	4.1
8	☐			336.21		P	2.0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	544.47	0.0000	P	14.3
2	☐	1.000	0.950	2191.90	0.0001	P	1.9
3	☐	625.000	1268.793	2197134.88	0.1390	A	0.6
4	☐	3125.000	3113.978	5462002.85	0.3411	A	2.8
5	☐	6250.000	6219.428	10848718.73	0.6812	A	0.4
6	☐	12500.000	12691.596	22070503.10	1.3901	A	3.4
7	☐	25000.000	24897.128	43442492.29	2.7269	A	2.1
8	☐			11279.83	0.0007	P	7.5

$$y = 1.0952E-004 * x + 3.6145E-005$$

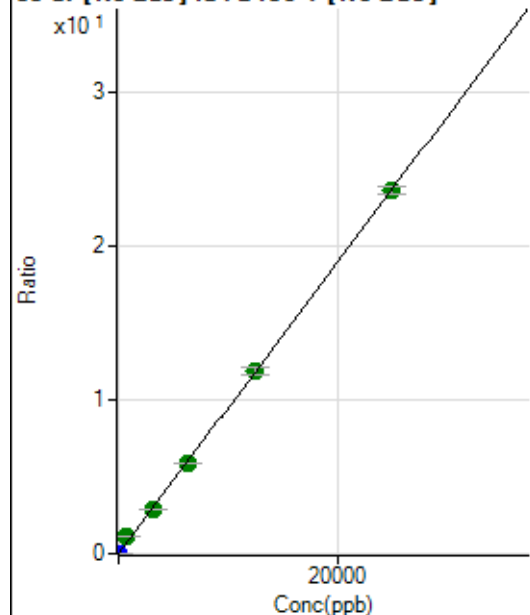
$$R = 0.9996$$

$$DL = 0.1413$$

$$BEC = 0.33$$

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	236.12	0.0000	P	37.1
2	☐	1.000	0.955	14382.78	0.0009	P	2.7
3	☐	625.000	1237.459	18515916.38	1.1714	A	0.6
4	☐	3125.000	3082.362	46728812.50	2.9178	A	1.3
5	☐	6250.000	6260.723	94376912.53	5.9264	A	0.6
6	☐	12500.000	12569.047	188902512.5	11.8979	A	3.9
7	☐	25000.000	24952.814	376303663.9	23.6204	A	2.0
8	☐			93900.90	0.0059	P	9.0

$$y = 9.4660\text{E-}004 * x + 1.5771\text{E-}005$$

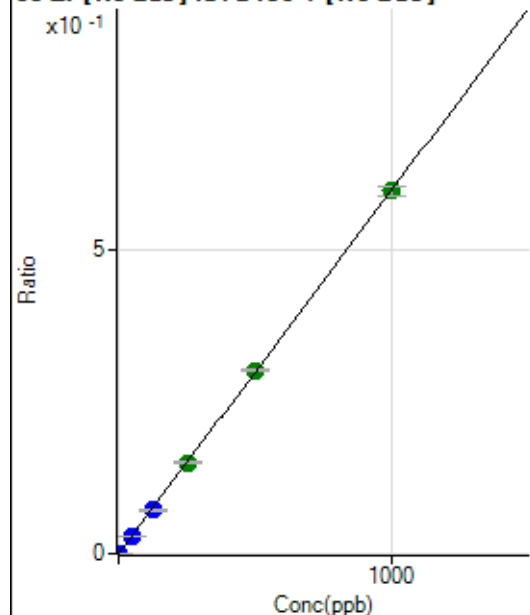
$$R = 0.9997$$

$$DL = 0.01857$$

$$BEC = 0.01666$$

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	588.92	0.0000	P	5.1
2	☐	1.000	0.910	9111.57	0.0006	P	3.3
3	☐	50.000	48.558	459329.75	0.0291	P	0.9
4	☐	125.000	119.944	1148525.37	0.0717	P	2.0
5	☐	250.000	250.060	2380533.21	0.1495	A	1.0
6	☐	500.000	504.807	4792018.12	0.3017	A	0.9
7	☐	1000.000	998.286	9505017.75	0.5967	A	2.8
8	☐			2241.93	0.0001	P	13.6

$$y = 5.9765\text{E-}004 * x + 3.8915\text{E-}005$$

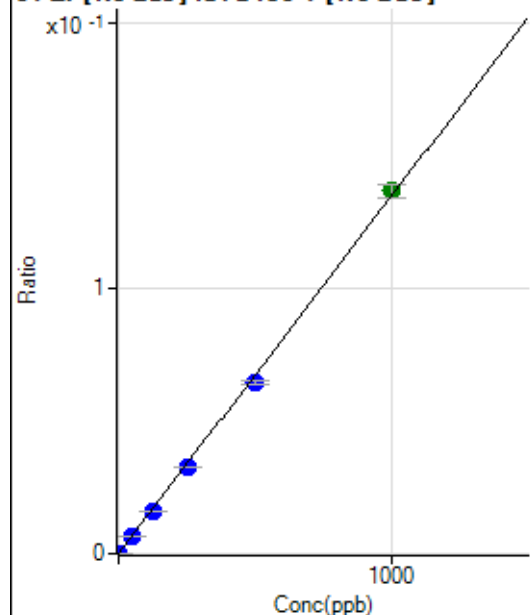
$$R = 1.0000$$

$$DL = 0.00994$$

$$BEC = 0.06511$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	69.45	0.0000	P	16.5
2	☐	1.000	0.974	2125.22	0.0001	P	8.1
3	☐	50.000	47.903	102132.21	0.0065	P	0.5
4	☐	125.000	118.840	256582.89	0.0160	P	1.7
5	☐	250.000	240.503	516288.55	0.0324	P	0.6
6	☐	500.000	477.811	1022786.71	0.0644	P	1.5
7	☐	1000.000	1014.343	2177730.99	0.1367	A	3.9
8	☐			527.80	0.0000	P	2.8

$$y = 1.3478E-004 * x + 4.5854E-006$$

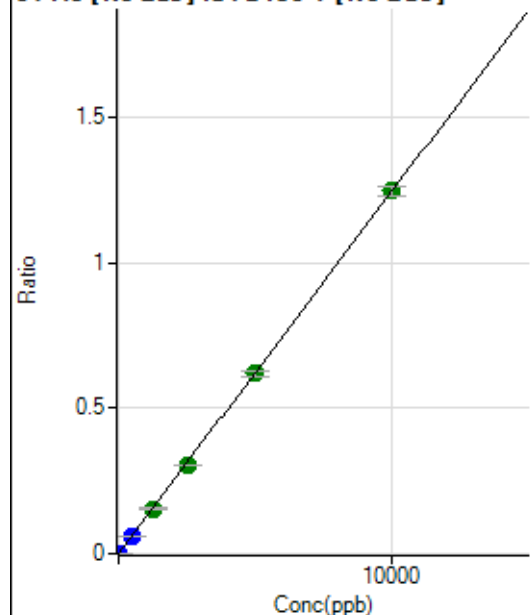
$$R = 0.9996$$

$$DL = 0.01686$$

$$BEC = 0.03402$$

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	133.34	0.0000	P	17.2
2	☐	5.000	5.315	10476.43	0.0007	P	2.1
3	☐	500.000	496.953	977148.50	0.0618	P	0.8
4	☐	1250.000	1242.657	2475145.28	0.1546	A	2.2
5	☐	2500.000	2446.831	4846493.73	0.3043	A	0.9
6	☐	5000.000	4980.463	9835272.01	0.6194	A	3.1
7	☐	10000.000	10024.131	19860571.97	1.2467	A	2.5
8	☐			3850.65	0.0002	P	15.4

$$y = 1.2437E-004 * x + 8.8320E-006$$

$$R = 1.0000$$

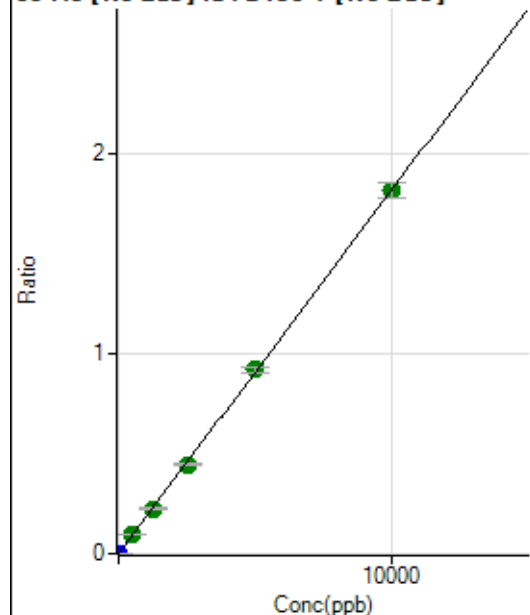
$$DL = 0.03659$$

$$BEC = 0.07101$$

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	30.56	0.0000	P	60.9
2	☐	5.000	4.518	12878.55	0.0008	P	4.8
3	☐	500.000	510.850	1468346.08	0.0929	A	1.0
4	☐	1250.000	1241.042	3613715.92	0.2257	A	2.7
5	☐	2500.000	2458.129	7117960.31	0.4470	A	0.7
6	☐	5000.000	5053.814	14589865.43	0.9189	A	3.5
7	☐	10000.000	9984.138	28914963.50	1.8154	A	4.2
8	☐			4928.82	0.0003	P	21.8

$$y = 1.8183\text{E-}004 * x + 2.0542\text{E-}006$$

$$R = 1.0000$$

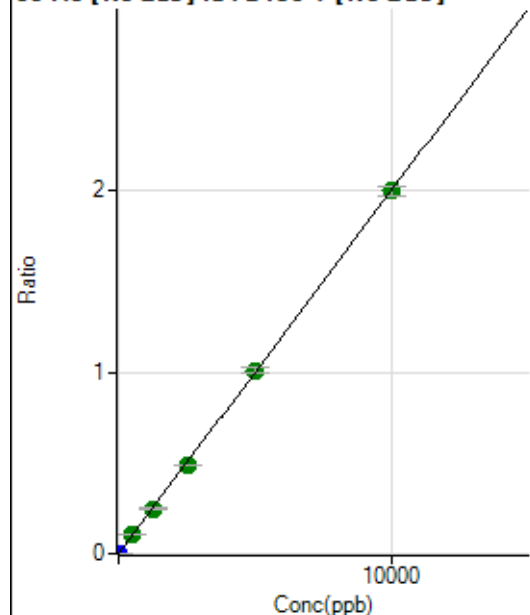
$$DL = 0.02063$$

$$BEC = 0.0113$$

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	97.23	0.0000	P	50.2
2	☐	5.000	4.577	14418.97	0.0009	P	1.4
3	☐	500.000	512.033	1619044.16	0.1024	A	2.2
4	☐	1250.000	1242.431	3980050.22	0.2485	A	3.0
5	☐	2500.000	2448.786	7800857.29	0.4899	A	0.5
6	☐	5000.000	5054.377	16055051.23	1.0111	A	2.2
7	☐	10000.000	9985.960	31820820.15	1.9976	A	2.8
8	☐			9664.75	0.0006	P	6.8

$$y = 2.0004\text{E-}004 * x + 6.3801\text{E-}006$$

$$R = 1.0000$$

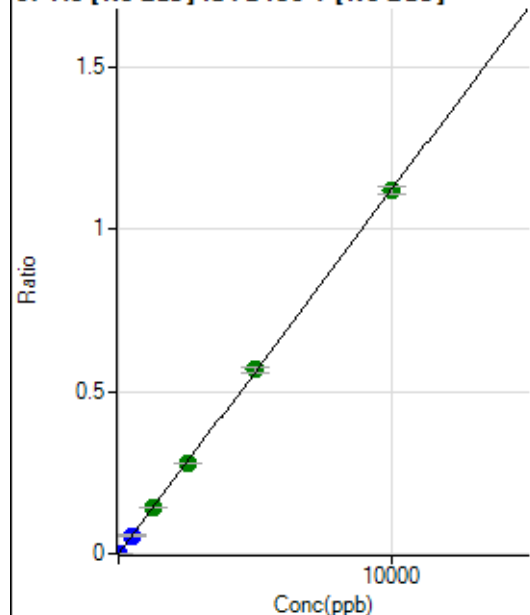
$$DL = 0.04806$$

$$BEC = 0.03189$$

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	30.56	0.0000	P	60.9
2	☐	5.000	4.533	7983.08	0.0005	P	1.9
3	☐	500.000	500.394	887046.72	0.0561	P	1.2
4	☐	1250.000	1262.934	2267955.50	0.1416	A	2.5
5	☐	2500.000	2489.638	4446321.50	0.2792	A	0.6
6	☐	5000.000	5058.616	9007862.88	0.5673	A	2.7
7	☐	10000.000	9971.646	17815013.76	1.1183	A	2.2
8	☐			3147.67	0.0002	P	16.5

$$y = 1.1215\text{E-}004 * x + 2.0542\text{E-}006$$

$$R = 1.0000$$

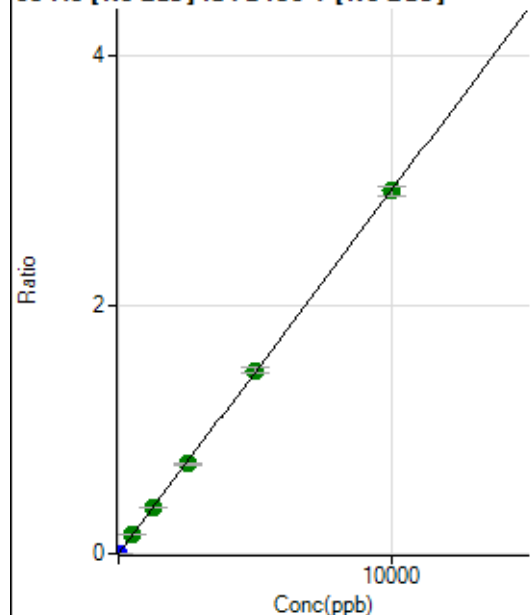
$$DL = 0.03344$$

$$BEC = 0.01832$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	41.67	0.0000	P	69.8
2	☐	5.000	4.611	21108.19	0.0013	P	3.2
3	☐	500.000	512.149	2364317.89	0.1496	A	1.9
4	☐	1250.000	1254.723	5868771.31	0.3665	A	1.7
5	☐	2500.000	2472.413	11499404.16	0.7221	A	1.3
6	☐	5000.000	5040.588	23373651.74	1.4722	A	3.6
7	☐	10000.000	9985.405	46457476.73	2.9164	A	2.9
8	☐			7913.64	0.0005	P	14.3

$$y = 2.9207\text{E-}004 * x + 2.7726\text{E-}006$$

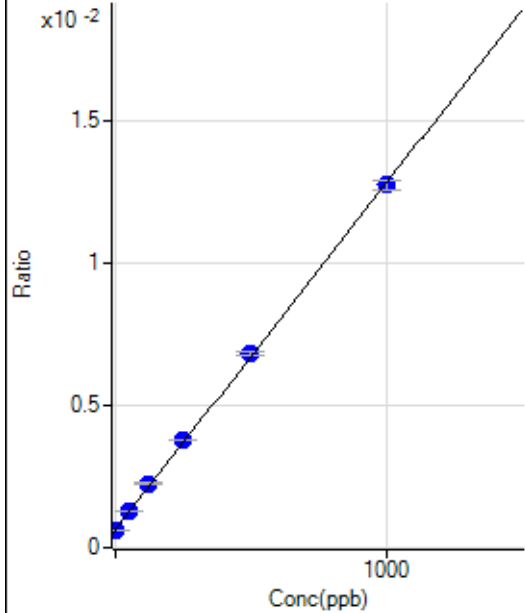
$$R = 1.0000$$

$$DL = 0.01988$$

$$BEC = 0.009493$$

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	6754.59	0.0006	P	3.3
2	☐	1.000	1.564	7076.99	0.0006	P	0.8
3	☐	50.000	52.783	14466.36	0.0013	P	0.5
4	☐	125.000	133.294	25836.01	0.0022	P	2.4
5	☐	250.000	259.927	43455.64	0.0038	P	0.9
6	☐	500.000	507.803	79697.42	0.0068	P	1.7
7	☐	1000.000	992.440	151172.78	0.0127	P	2.8
8	☐			6546.16	0.0006	P	5.3

$$y = 1.2223\text{E-}005 * x + 6.1627\text{E-}004$$

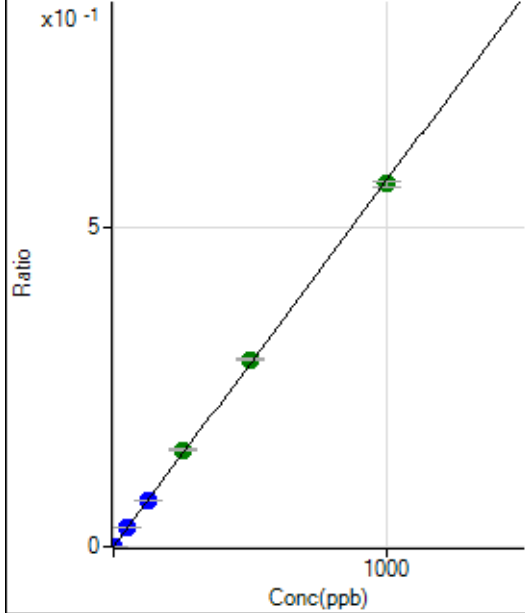
$$R = 0.9999$$

$$DL = 4.939$$

$$BEC = 50.42$$

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	80.56	0.0000	P	42.4
2	☐	1.000	1.004	6515.62	0.0006	P	5.1
3	☐	50.000	51.439	339060.49	0.0296	P	1.8
4	☐	125.000	126.348	835351.77	0.0726	P	0.8
5	☐	250.000	263.433	1734378.18	0.1514	A	1.9
6	☐	500.000	511.046	3430688.88	0.2937	A	0.8
7	☐	1000.000	990.878	6754043.77	0.5695	A	1.3
8	☐			2675.35	0.0002	P	4.4

$$y = 5.7470\text{E-}004 * x + 7.4072\text{E-}006$$

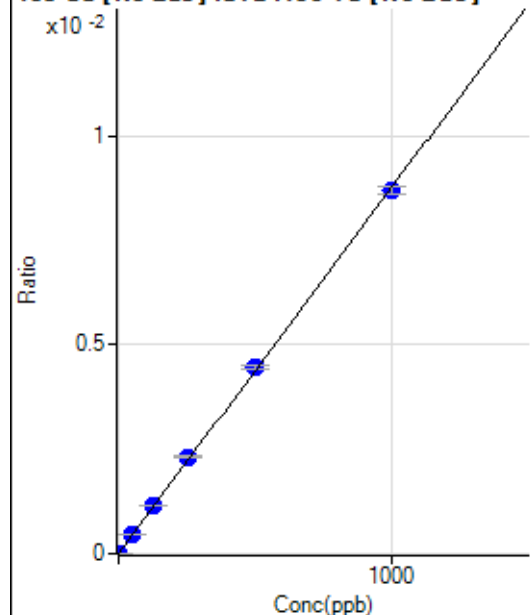
$$R = 0.9998$$

$$DL = 0.01639$$

$$BEC = 0.01289$$

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	30.55	0.0000	P	13.1
2	☐	1.000	0.964	125.00	0.0000	P	2.0
3	☐	50.000	50.101	5062.10	0.0004	P	0.8
4	☐	125.000	129.843	13107.75	0.0011	P	0.9
5	☐	250.000	263.862	26493.67	0.0023	P	1.3
6	☐	500.000	509.240	52103.74	0.0045	P	1.9
7	☐	1000.000	991.304	102956.08	0.0087	P	2.1
8	☐			79.17	0.0000	P	9.2

$$y = 8.7544\text{E-}006 * x + 2.7804\text{E-}006$$

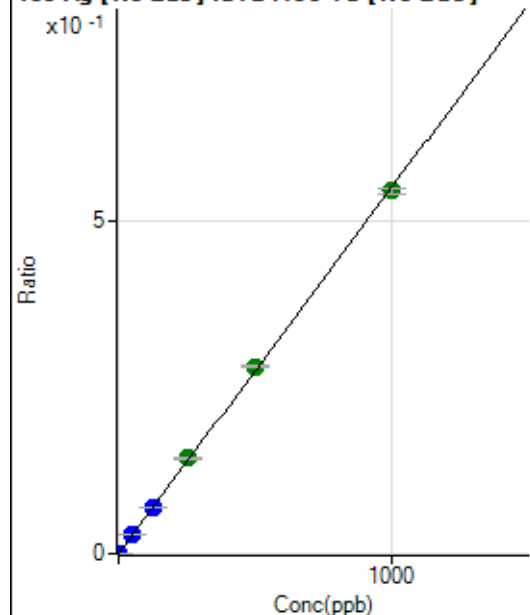
$$R = 0.9998$$

$$DL = 0.1253$$

$$BEC = 0.3176$$

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	80.56	0.0000	P	21.7
2	☐	1.000	1.064	6612.89	0.0006	P	6.0
3	☐	50.000	51.013	322539.55	0.0281	P	2.6
4	☐	125.000	125.161	793823.68	0.0690	P	0.9
5	☐	250.000	261.357	1650716.58	0.1441	A	1.7
6	☐	500.000	511.424	3293362.03	0.2820	A	1.4
7	☐	1000.000	991.378	6482383.96	0.5466	A	1.3
8	☐			2494.73	0.0002	P	1.6

$$y = 5.5131\text{E-}004 * x + 7.3558\text{E-}006$$

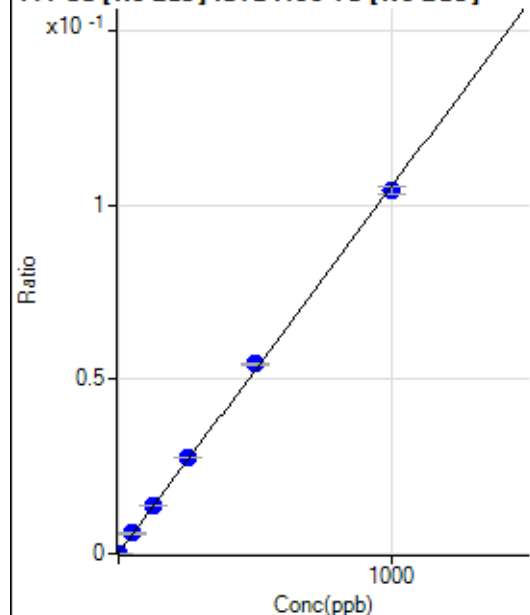
$$R = 0.9998$$

$$DL = 0.008677$$

$$BEC = 0.01334$$

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	1340.64	0.0001	P	4.1
2	☐	1.000	1.069	2615.48	0.0002	P	2.2
3	☐	50.000	54.026	66599.38	0.0058	P	0.5
4	☐	125.000	131.308	160348.38	0.0139	P	0.6
5	☐	250.000	260.701	315668.63	0.0276	P	1.7
6	☐	500.000	515.917	635545.17	0.0544	P	0.9
7	☐	1000.000	988.376	1234895.98	0.1041	P	2.2
8	☐			1696.89	0.0001	P	6.0

$$y = 1.0523\text{E-}004 * x + 1.2232\text{E-}004$$

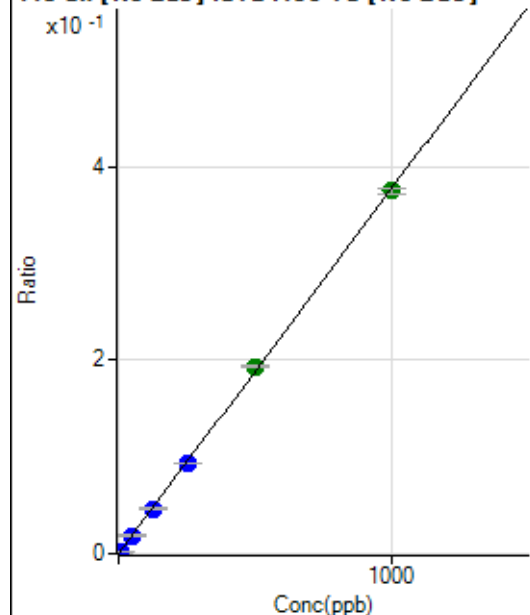
$$R = 0.9997$$

$$DL = 0.1422$$

$$BEC = 1.162$$

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	888.95	0.0001	P	17.2
2	☐	5.000	4.882	21436.69	0.0019	P	0.7
3	☐	50.000	49.778	216454.25	0.0189	P	1.6
4	☐	125.000	123.450	537090.66	0.0467	P	1.6
5	☐	250.000	248.292	1074849.64	0.0938	P	0.8
6	☐	500.000	512.904	2262998.55	0.1937	A	0.7
7	☐	1000.000	994.181	4452740.86	0.3754	A	1.8
8	☐			2522.54	0.0002	P	5.9

$$y = 3.7756\text{E-}004 * x + 8.1219\text{E-}005$$

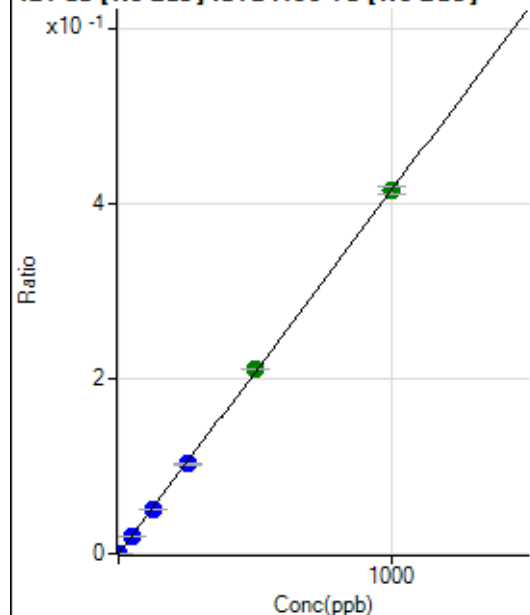
$$R = 0.9999$$

$$DL = 0.1107$$

$$BEC = 0.2151$$

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	47.22	0.0000	P	66.2
2	☐	2.000	1.909	8880.90	0.0008	P	3.8
3	☐	50.000	49.844	237563.89	0.0207	P	1.2
4	☐	125.000	121.917	582838.56	0.0507	P	0.3
5	☐	250.000	246.181	1171955.16	0.1023	P	0.6
6	☐	500.000	506.098	2456636.23	0.2103	A	0.2
7	☐	1000.000	998.299	4920019.77	0.4148	A	2.3
8	☐			2589.21	0.0002	P	5.2

$$y = 4.1555\text{E-}004 * x + 4.3081\text{E-}006$$

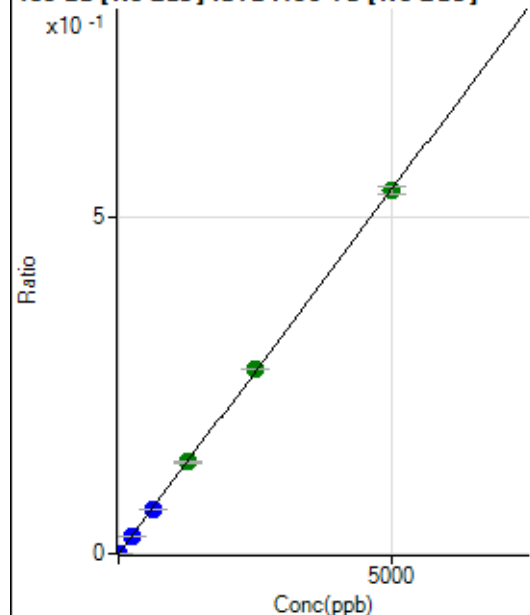
$$R = 1.0000$$

$$DL = 0.0206$$

$$BEC = 0.01037$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	22.22	0.0000	P	22.4
2	☐	10.000	9.384	11330.02	0.0010	P	5.5
3	☐	250.000	242.679	301162.50	0.0263	P	2.3
4	☐	625.000	607.019	755696.47	0.0657	P	1.2
5	☐	1250.000	1261.066	1563432.66	0.1365	A	1.8
6	☐	2500.000	2530.926	3199487.38	0.2739	A	0.3
7	☐	5000.000	4984.385	6397326.92	0.5394	A	2.1
8	☐			3867.33	0.0003	P	5.8

$$y = 1.0822\text{E-}004 * x + 2.0303\text{E-}006$$

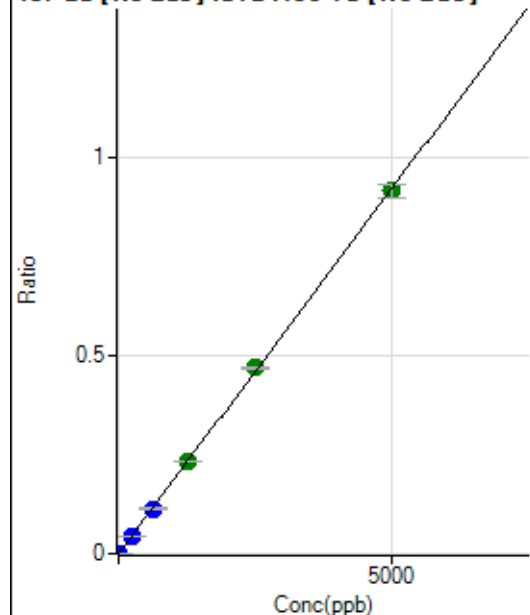
$$R = 1.0000$$

$$DL = 0.01259$$

$$BEC = 0.01876$$

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	63.89	0.0000	P	8.7
2	☐	10.000	9.432	19380.99	0.0017	P	1.3
3	☐	250.000	246.288	519235.25	0.0453	P	2.3
4	☐	625.000	614.607	1299808.69	0.1130	P	2.2
5	☐	1250.000	1263.999	2662130.68	0.2324	A	1.1
6	☐	2500.000	2546.150	5468244.79	0.4681	A	1.7
7	☐	5000.000	4974.911	10846199.46	0.9146	A	3.8
8	☐			6582.36	0.0006	P	1.1

$$y = 1.8385E-004 * x + 5.8338E-006$$

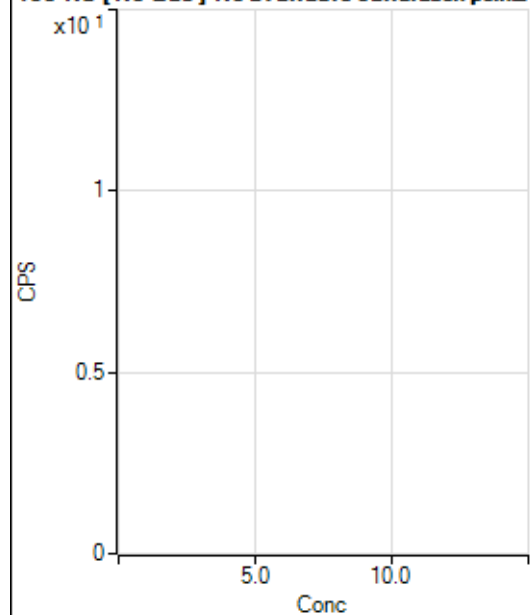
$$R = 0.9999$$

$$DL = 0.008267$$

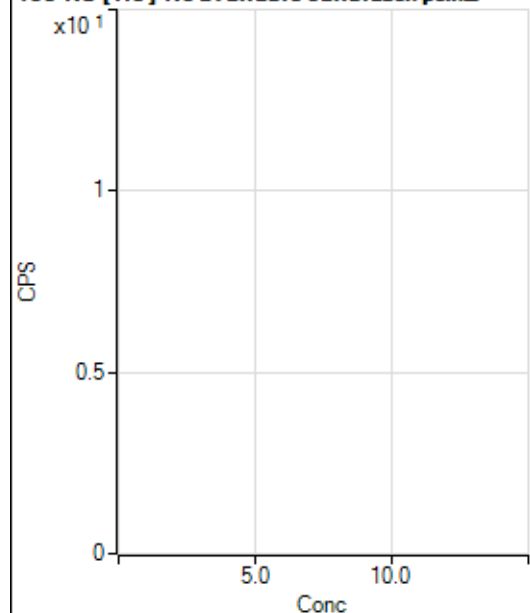
$$BEC = 0.03173$$

Weight: <None>

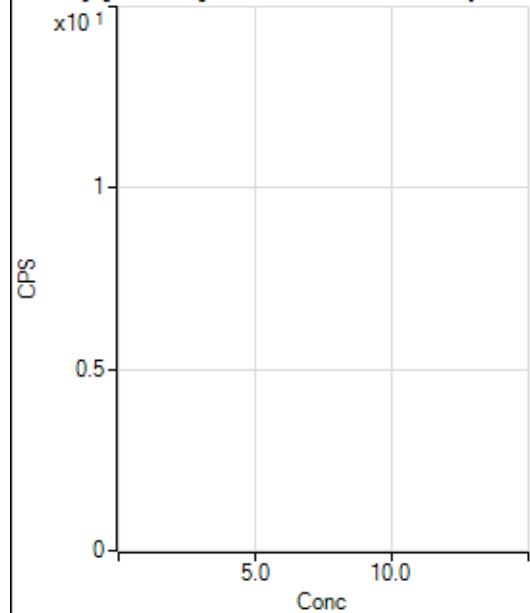
Min Conc: 0

150 Nd [No Gas] No available calibration points

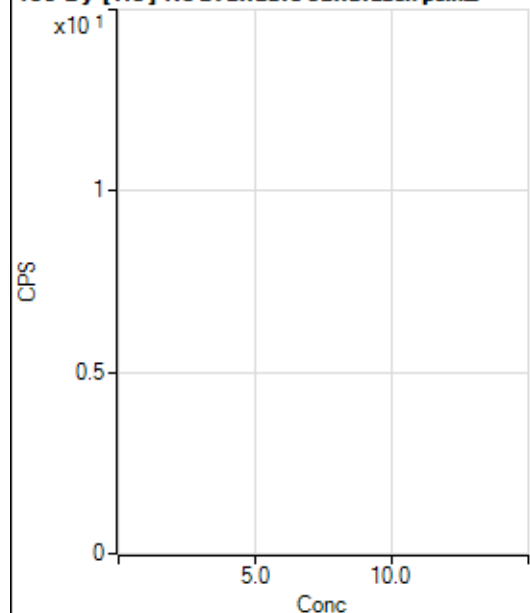
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			8.89		P	43.3
2	☐			11.11		P	34.6
3	☐			55.56		P	30.2
4	☐			106.67		P	16.5
5	☐			193.34		P	9.1
6	☐			360.01		P	6.7
7	☐			797.82		P	6.2
8	☐			51.11		P	19.9

150 Nd [He] No available calibration points

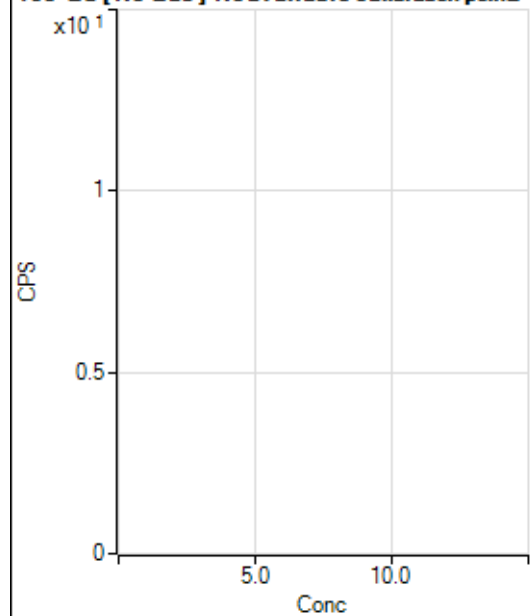
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1.11		P	173.
2	☐			3.33		P	100.
3	☐			3.33		P	100.
4	☐			4.44		P	114.
5	☐			13.33		P	66.2
6	☐			27.78		P	30.2
7	☐			41.11		P	40.8
8	☐			11.11		P	75.5

156 Dy [No Gas] No available calibration points

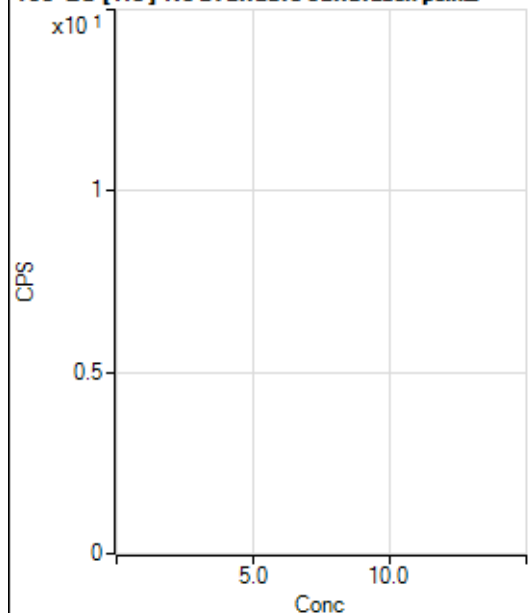
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			13.89		P	34.7
2	☐			13.89		P	91.6
3	☐			8.33		P	173.
4	☐			41.67		P	72.1
5	☐			141.67		P	15.6
6	☐			136.12		P	18.7
7	☐			369.46		P	3.4
8	☐			1200.09		P	9.6

156 Dy [He] No available calibration points

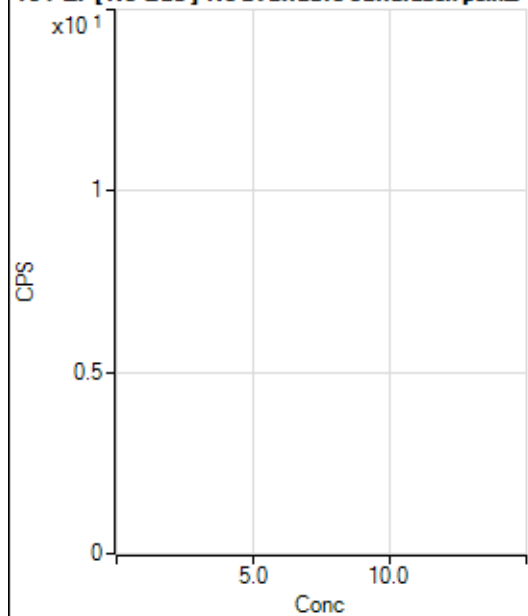
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2.22		P	173.
2	☐			3.33		P	0.0
3	☐			10.00		P	33.3
4	☐			15.56		P	53.9
5	☐			37.78		P	13.5
6	☐			76.67		P	15.7
7	☐			138.89		P	11.3
8	☐			484.46		P	7.8

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

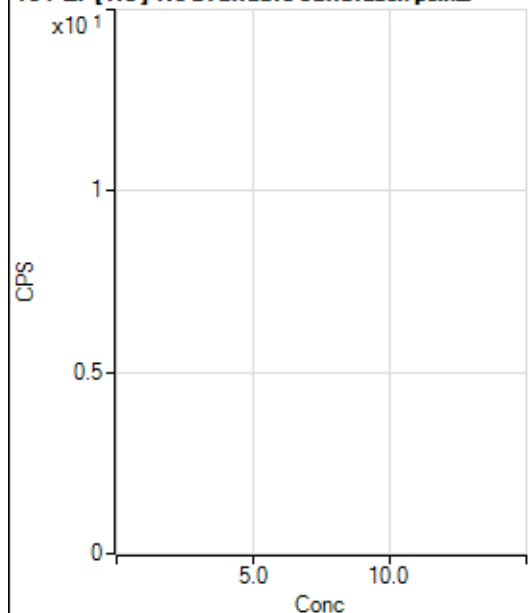
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			125.00		P	17.6
2	☐			111.11		P	11.5
3	☐			144.45		P	34.8
4	☐			155.56		P	32.3
5	☐			150.01		P	20.0
6	☐			250.01		P	14.5
7	☐			316.68		P	22.9
8	☐			1211.20		P	9.7

160 Gd [He] No available calibration points

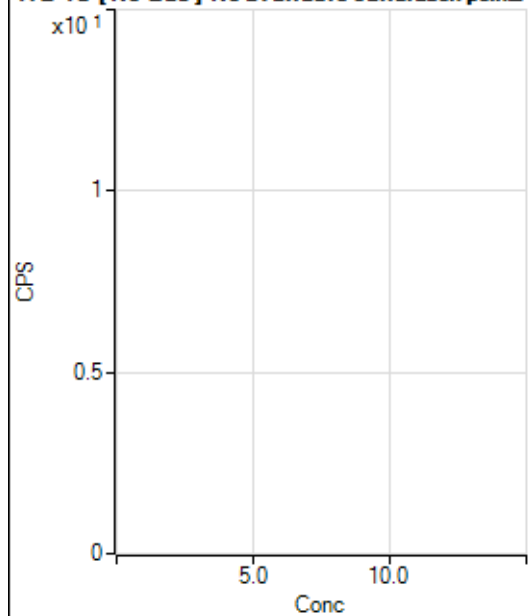
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			125.56		P	17.1
2	☐			105.56		P	6.6
3	☐			103.34		P	5.6
4	☐			126.67		P	13.9
5	☐			138.89		P	2.8
6	☐			174.45		P	12.3
7	☐			216.67		P	16.1
8	☐			648.91		P	6.4

164 Er [No Gas] No available calibration points

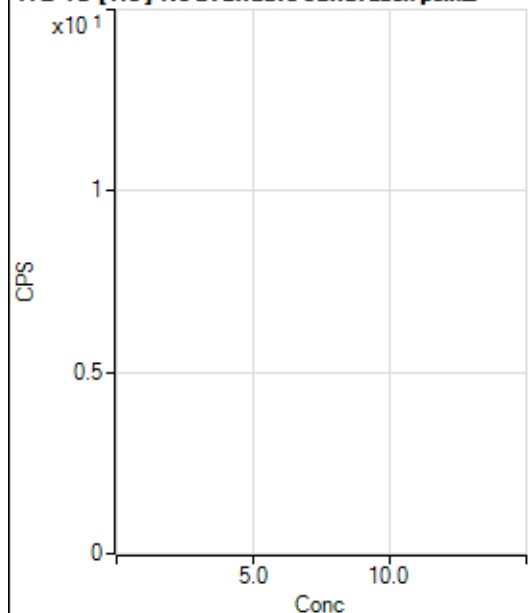
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			55.56		P	22.9
2	☐			119.45		P	31.5
3	☐			91.67		P	31.5
4	☐			100.00		P	16.7
5	☐			77.78		P	27.0
6	☐			63.89		P	30.1
7	☐			100.00		P	14.4
8	☐			127.78		P	19.9

164 Er [He] No available calibration points

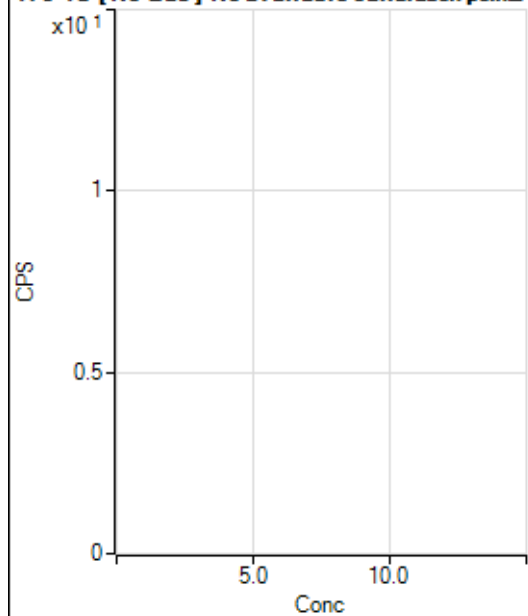
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			27.78		P	18.3
2	☐			25.56		P	60.2
3	☐			40.00		P	8.3
4	☐			22.22		P	52.7
5	☐			33.33		P	30.0
6	☐			36.67		P	32.8
7	☐			40.00		P	22.0
8	☐			67.78		P	27.1

172 Yb [No Gas] No available calibration points

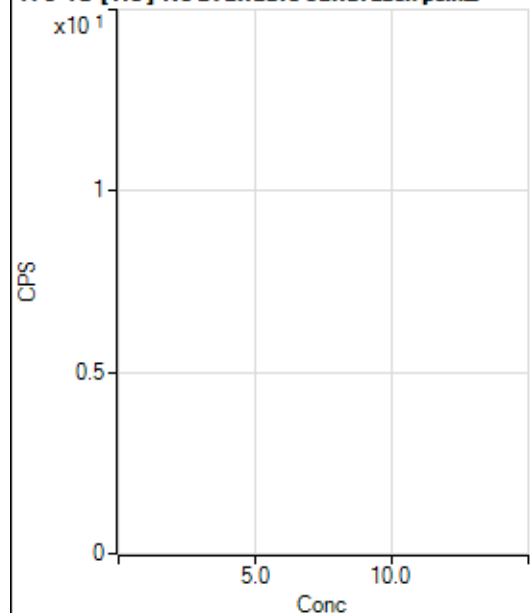
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			69.45		P	30.2
2	☐			58.33		P	49.5
3	☐			91.67		P	27.3
4	☐			91.67		P	24.1
5	☐			108.34		P	23.1
6	☐			100.00		P	14.4
7	☐			141.67		P	11.8
8	☐			533.36		P	18.0

172 Yb [He] No available calibration points

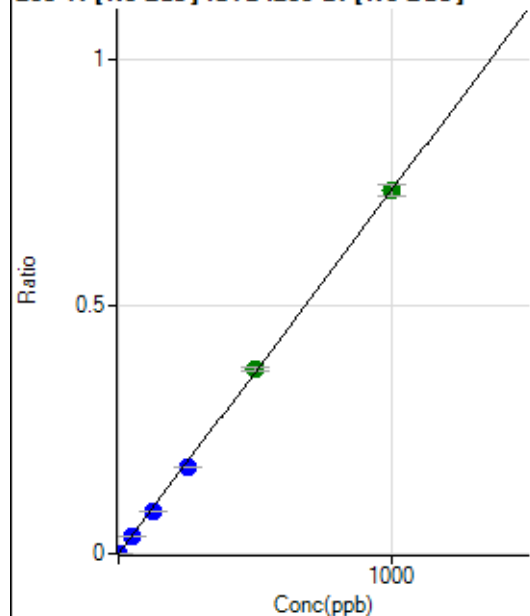
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			25.93		P	53.9
2	☐			29.63		P	47.2
3	☐			25.93		P	12.4
4	☐			25.93		P	44.6
5	☐			44.45		P	45.1
6	☐			35.19		P	55.5
7	☐			85.19		P	42.4
8	☐			198.15		P	8.6

176 Yb [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2269.70		P	11.3
2	☐			2228.05		P	4.6
3	☐			3242.15		P	0.3
4	☐			4948.30		P	5.0
5	☐			7204.96		P	5.5
6	☐			12022.46		P	3.4
7	☐			22850.96		P	1.0
8	☐			2411.40		P	6.4

176 Yb [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			8011.83		P	2.7
2	☐			7885.85		P	1.5
3	☐			8252.74		P	5.1
4	☐			9186.71		P	2.4
5	☐			10000.28		P	3.0
6	☐			12478.30		P	1.2
7	☐			17204.08		P	0.3
8	☐			8652.99		P	2.5

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	138.89	0.0000	P	26.8
2	☐	1.000	0.908	4770.47	0.0007	P	3.3
3	☐	50.000	46.234	239612.52	0.0339	P	0.8
4	☐	125.000	116.876	609410.39	0.0858	P	1.7
5	☐	250.000	237.992	1232912.84	0.1747	P	0.4
6	☐	500.000	510.549	2643546.61	0.3747	A	2.1
7	☐	1000.000	998.931	5220065.57	0.7330	A	3.3
8	☐			1208.43	0.0002	P	6.7

$$y = 7.3379E-004 * x + 2.0434E-005$$

$$R = 0.9998$$

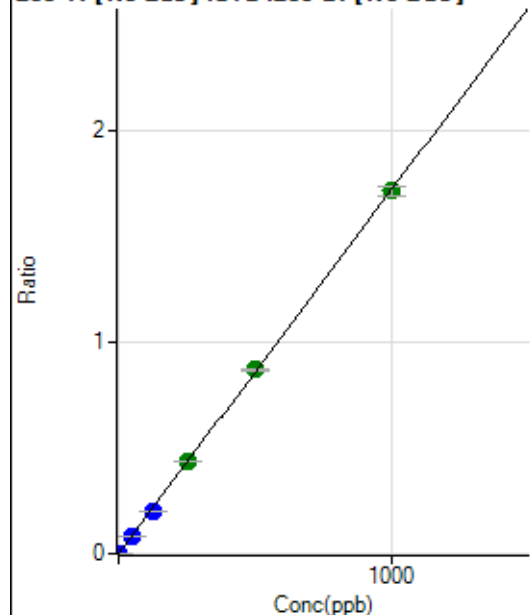
$$DL = 0.02235$$

$$BEC = 0.02785$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	372.24	0.0001	P	16.1
2	☐	1.000	0.915	11332.99	0.0016	P	1.2
3	☐	50.000	47.447	577303.22	0.0818	P	1.7
4	☐	125.000	117.668	1440489.59	0.2028	P	1.0
5	☐	250.000	254.006	3089140.91	0.4376	A	0.7
6	☐	500.000	505.437	6145079.00	0.8708	A	1.2
7	☐	1000.000	997.324	12236857.48	1.7182	A	2.8
8	☐			2853.17	0.0004	P	11.9

$$y = 0.0017 * x + 5.4758E-005$$

$$R = 0.9999$$

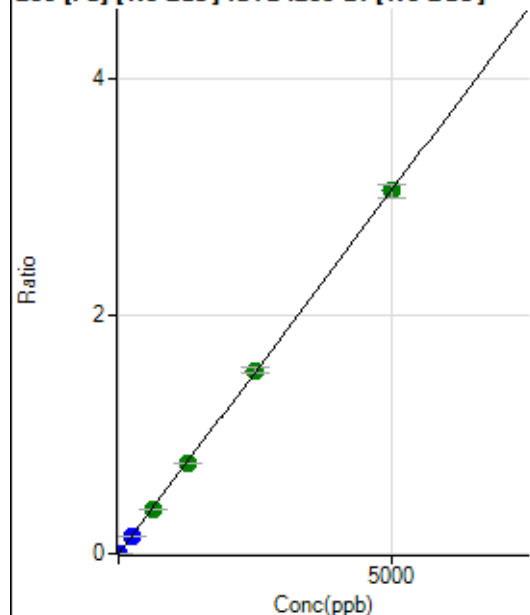
$$DL = 0.01537$$

$$BEC = 0.03178$$

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	622.25	0.0001	P	6.3
2	☐	1.000	0.904	4473.08	0.0006	P	5.0
3	☐	250.000	230.758	996611.73	0.1412	P	1.3
4	☐	625.000	614.327	2669398.38	0.3758	A	0.9
5	☐	1250.000	1237.917	5343920.26	0.7571	A	0.7
6	☐	2500.000	2523.905	10891138.90	1.5435	A	2.5
7	☐	5000.000	4993.365	21743700.49	3.0536	A	3.7
8	☐			4156.30	0.0006	P	9.8

$$y = 6.1150E-004 * x + 9.0904E-005$$

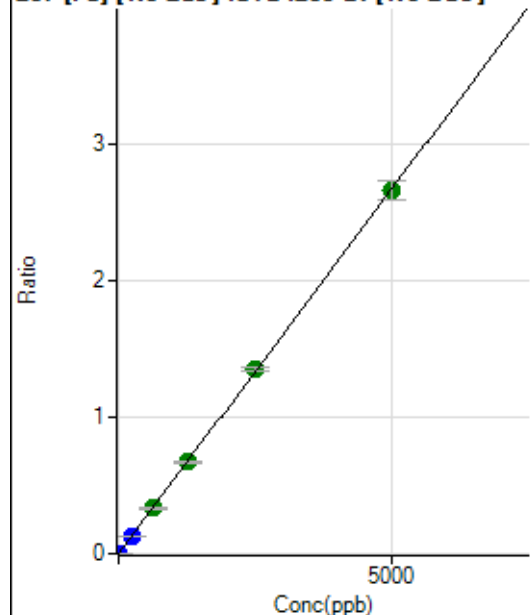
$$R = 1.0000$$

$$DL = 0.02825$$

$$BEC = 0.1487$$

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	588.91	0.0001	P	11.6
2	☐	1.000	0.865	3806.18	0.0005	P	1.2
3	☐	250.000	231.009	870132.49	0.1233	P	0.7
4	☐	625.000	621.203	2353969.15	0.3314	A	0.6
5	☐	1250.000	1253.837	4719854.91	0.6687	A	1.5
6	☐	2500.000	2543.448	9571090.37	1.3564	A	1.9
7	☐	5000.000	4978.741	18902060.84	2.6551	A	5.1
8	☐			3624.65	0.0006	P	8.9

$$y = 5.3327E-004 * x + 8.6479E-005$$

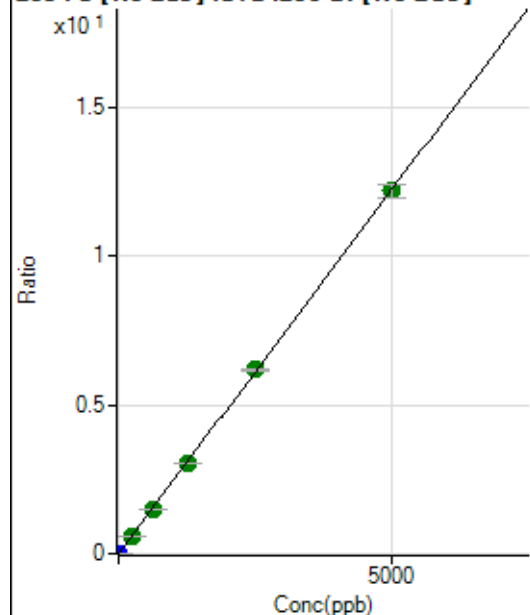
$$R = 0.9999$$

$$DL = 0.0563$$

$$BEC = 0.1622$$

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	2472.36	0.0004	P	3.3
2	☐	1.000	0.881	17480.86	0.0025	P	1.7
3	☐	250.000	241.051	4160397.59	0.5894	A	0.4
4	☐	625.000	618.701	10743366.10	1.5123	A	0.3
5	☐	1250.000	1248.383	21535580.16	3.0510	A	0.8
6	☐	2500.000	2526.564	43569240.67	6.1745	A	1.9
7	☐	5000.000	4988.357	86804082.73	12.1904	A	3.8
8	☐			16441.42	0.0025	P	8.3

$$y = 0.0024 * x + 3.6209E-004$$

$$R = 1.0000$$

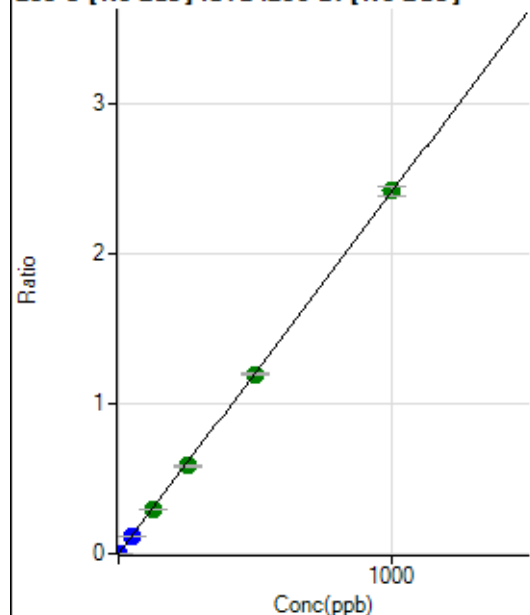
$$DL = 0.01487$$

$$BEC = 0.1482$$

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	25.00	0.0000	P	54.5
2	☐	1.000	0.898	15056.52	0.0022	P	1.8
3	☐	50.000	45.738	777223.80	0.1101	P	1.3
4	☐	125.000	121.481	2077653.22	0.2925	A	1.2
5	☐	250.000	243.579	4138443.15	0.5864	A	2.7
6	☐	500.000	497.194	8446515.99	1.1969	A	0.9
7	☐	1000.000	1003.661	17208127.64	2.4162	A	2.8
8	☐			1302.89	0.0002	P	22.9

$$y = 0.0024 * x + 3.6227E-006$$

$$R = 1.0000$$

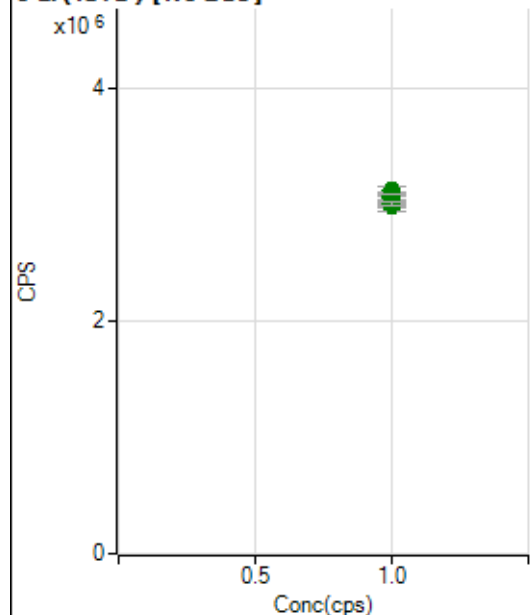
$$DL = 0.00246$$

$$BEC = 0.001505$$

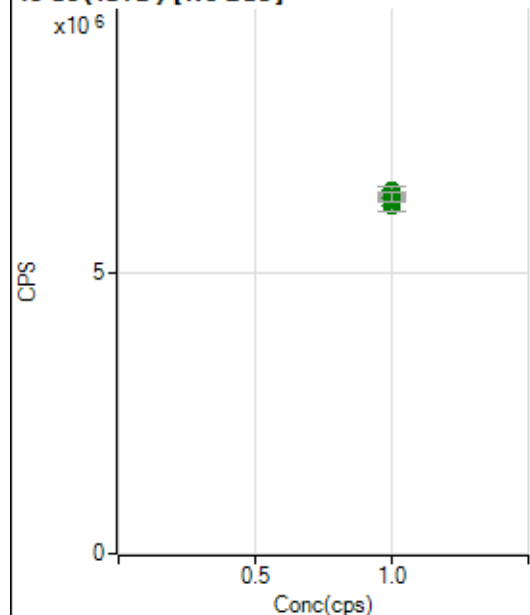
Weight: <None>

Min Conc: 0

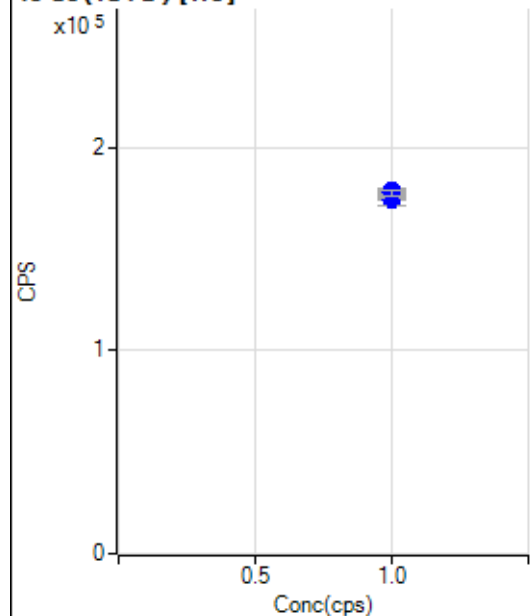
6 Li (ISTD) [No Gas]



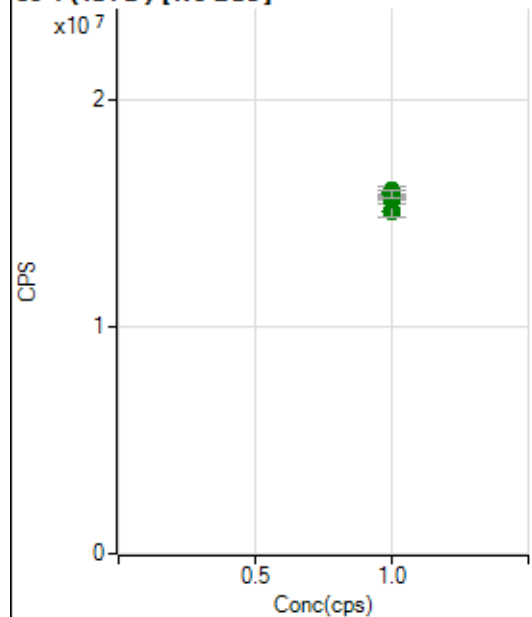
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2993441.63		A	3.7
2	☐	1.000		3004772.35		A	0.7
3	☐	1.000		3119314.28		A	2.5
4	☐	1.000		3103278.08		A	0.1
5	☐	1.000		3038427.23		A	4.3
6	☐	1.000		3054407.76		A	1.8
7	☐	1.000		3067115.73		A	1.3
8	☐	1.000		3010952.44		A	1.2

45 Sc (ISTD) [No Gas]

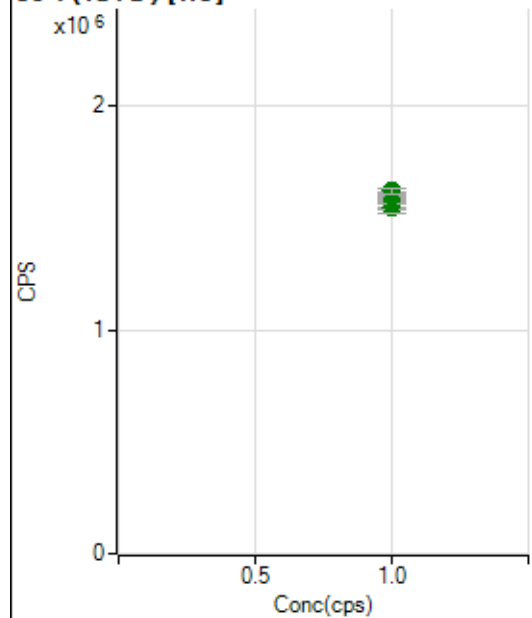
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6193775.18		A	3.4
2	☐	1.000		6340087.06		A	2.0
3	☐	1.000		6400253.86		A	1.1
4	☐	1.000		6353059.91		A	0.7
5	☐	1.000		6400871.43		A	0.5
6	☐	1.000		6319923.79		A	0.9
7	☐	1.000		6468532.75		A	2.7
8	☐	1.000		6355777.89		A	2.9

45 Sc (ISTD) [He]

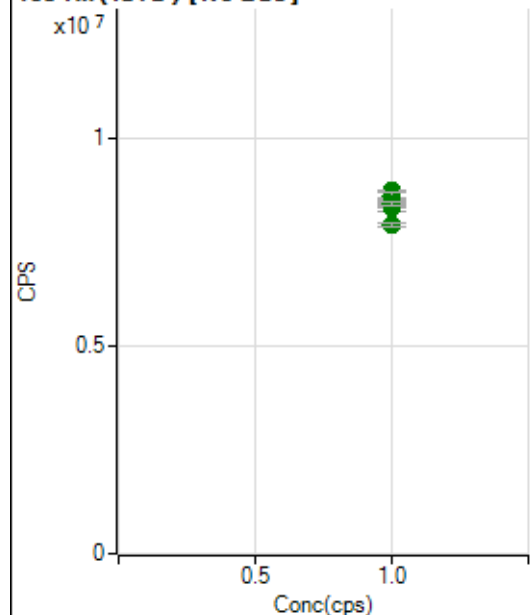
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		174562.22		P	0.5
2	☐	1.000		176728.24		P	1.2
3	☐	1.000		177223.90		P	3.4
4	☐	1.000		177821.96		P	1.1
5	☐	1.000		174610.19		P	3.8
6	☐	1.000		175512.16		P	0.7
7	☐	1.000		178770.38		P	0.8
8	☐	1.000		177686.75		P	1.4

89 Y (ISTD) [No Gas]

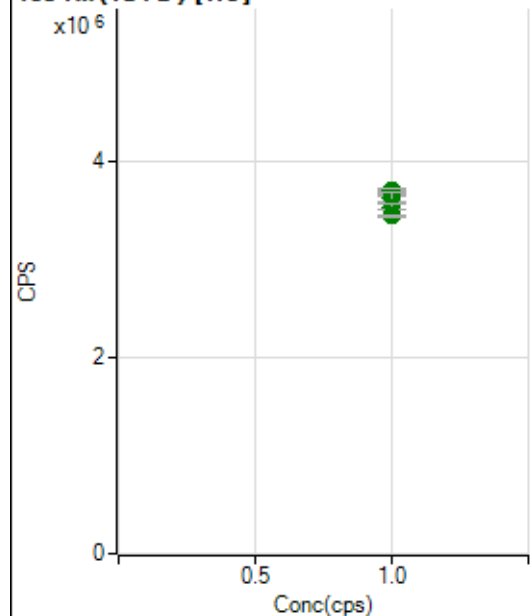
	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		15118952.41		A	4.0
2	☐	1.000		15639938.80		A	0.3
3	☐	1.000		15807007.82		A	0.6
4	☐	1.000		16018746.70		A	2.6
5	☐	1.000		15925311.29		A	1.1
6	☐	1.000		15882806.71		A	1.6
7	☐	1.000		15934209.07		A	1.5
8	☐	1.000		15875230.18		A	2.5

89 Y (ISTD) [He]

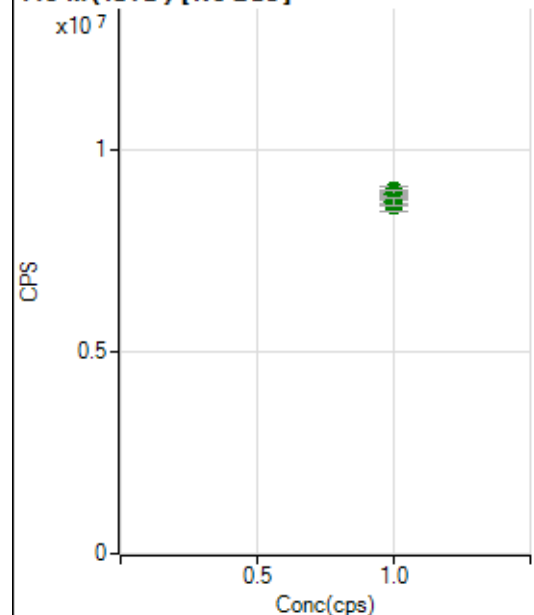
	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		1562543.74		A	2.1
2	☐	1.000		1587736.07		A	1.9
3	☐	1.000		1550251.99		A	3.4
4	☐	1.000		1597428.29		A	1.8
5	☐	1.000		1565861.05		A	3.3
6	☐	1.000		1565279.84		A	0.0
7	☐	1.000		1598773.29		A	0.5
8	☐	1.000		1620538.83		A	1.5

103 Rh (ISTD) [No Gas]

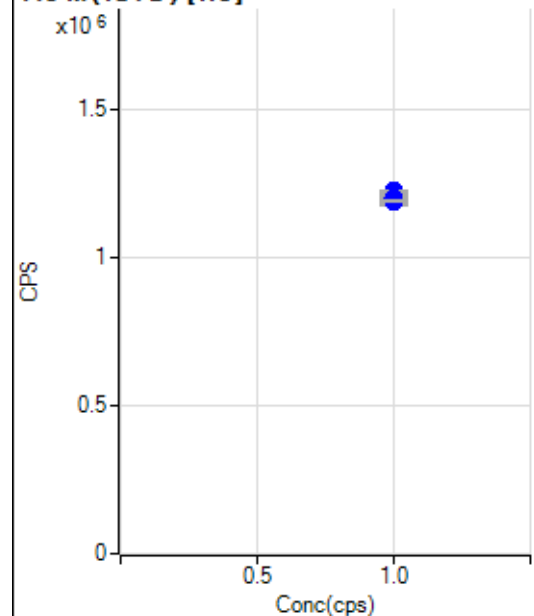
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		8338485.69		A	2.2
2	☐	1.000		8504057.74		A	1.5
3	☐	1.000		8746273.98		A	0.7
4	☐	1.000		8622926.50		A	2.0
5	☐	1.000		8418969.54		A	1.0
6	☐	1.000		8334326.66		A	0.1
7	☐	1.000		8416025.80		A	1.1
8	☐	1.000		7928917.63		A	1.6

103 Rh (ISTD) [He]

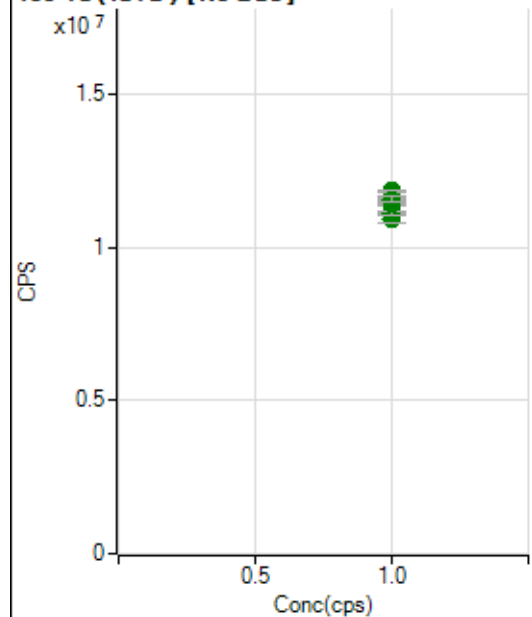
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3651662.72		A	0.3
2	☐	1.000		3676720.88		A	1.2
3	☐	1.000		3619947.62		A	2.2
4	☐	1.000		3696989.11		A	1.1
5	☐	1.000		3580671.33		A	4.4
6	☐	1.000		3632275.47		A	2.5
7	☐	1.000		3531762.66		A	1.5
8	☐	1.000		3443740.99		A	0.7

115 In (ISTD) [No Gas]

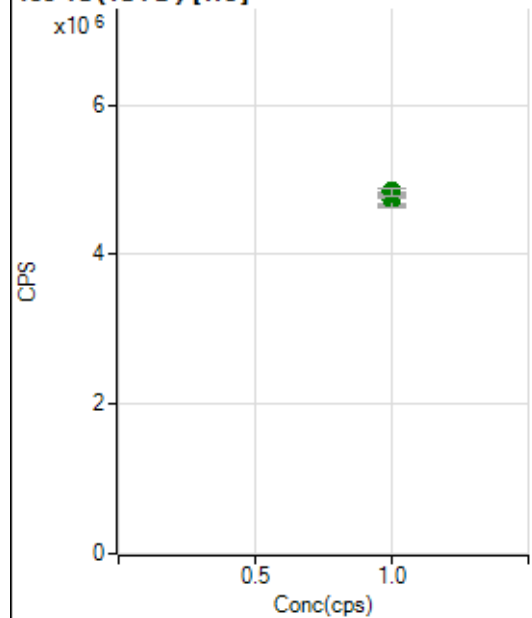
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		8632976.89		A	2.8
2	☐	1.000		8808752.71		A	2.4
3	☐	1.000		8999742.26		A	3.0
4	☐	1.000		8931192.90		A	2.2
5	☐	1.000		8872131.08		A	1.4
6	☐	1.000		8900432.03		A	1.0
7	☐	1.000		8942939.65		A	1.2
8	☐	1.000		8734914.28		A	2.3

115 In (ISTD) [He]

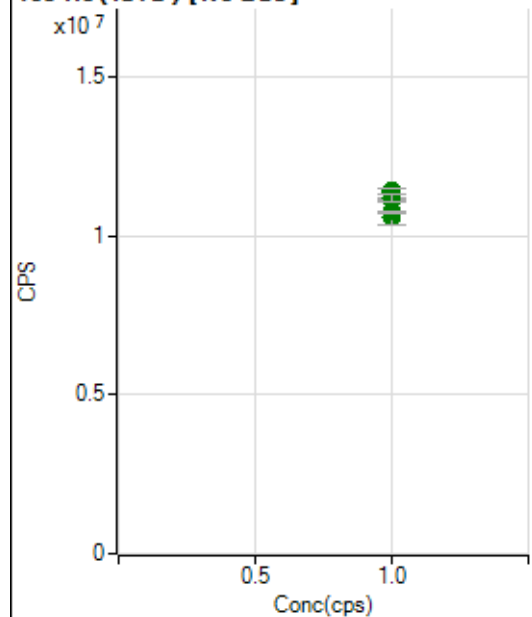
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1211636.39		P	0.7
2	☐	1.000		1212282.04		P	1.4
3	☐	1.000		1193121.60		P	2.9
4	☐	1.000		1227314.30		P	0.7
5	☐	1.000		1193522.23		P	3.0
6	☐	1.000		1201485.98		P	1.0
7	☐	1.000		1191896.85		P	1.4
8	☐	1.000		1194094.40		P	0.3

159 Tb (ISTD) [No Gas]

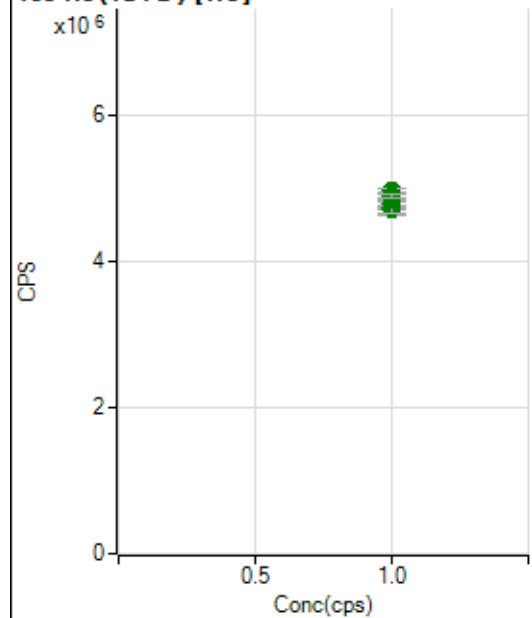
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		10961819.70		A	3.1
2	☐	1.000		11138828.58		A	1.4
3	☐	1.000		11468694.55		A	1.6
4	☐	1.000		11503702.05		A	1.0
5	☐	1.000		11455838.72		A	0.4
6	☐	1.000		11681007.60		A	0.7
7	☐	1.000		11861044.82		A	0.8
8	☐	1.000		11591269.97		A	1.6

159 Tb (ISTD) [He]

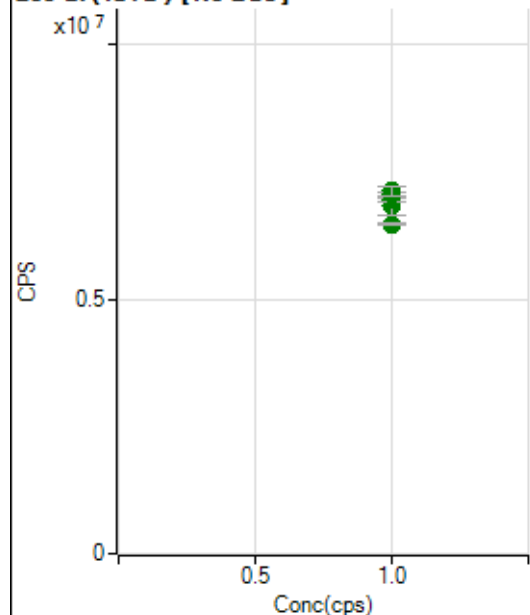
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4737868.30		A	2.3
2	☐	1.000		4770253.40		A	0.6
3	☐	1.000		4721499.31		A	2.9
4	☐	1.000		4824871.39		A	2.1
5	☐	1.000		4727916.77		A	3.9
6	☐	1.000		4811622.95		A	2.5
7	☐	1.000		4849208.85		A	1.8
8	☐	1.000		4825716.94		A	2.0

165 Ho (ISTD) [No Gas]

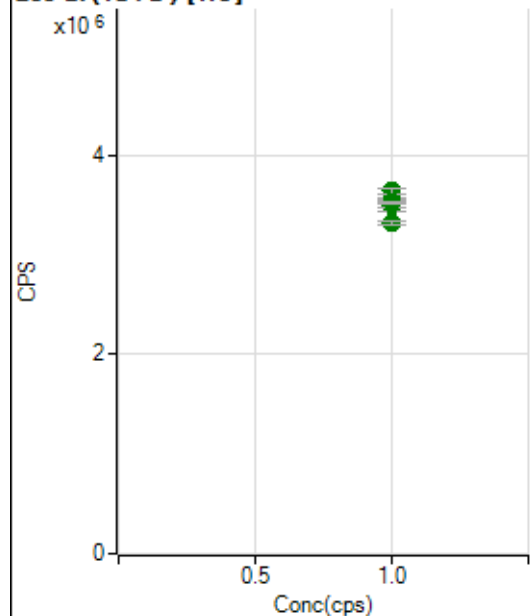
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		10557011.61		A	4.2
2	☐	1.000		10741639.91		A	0.7
3	☐	1.000		11107845.91		A	1.4
4	☐	1.000		11131179.07		A	1.2
5	☐	1.000		11144238.53		A	0.9
6	☐	1.000		11387230.29		A	1.2
7	☐	1.000		11403557.55		A	1.7
8	☐	1.000		11182403.72		A	1.7

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4783537.05		A	2.0
2	☐	1.000		4737752.15		A	1.1
3	☐	1.000		4710931.35		A	2.6
4	☐	1.000		4932990.83		A	0.7
5	☐	1.000		4746008.92		A	3.7
6	☐	1.000		4848852.70		A	0.6
7	☐	1.000		4970291.18		A	1.5
8	☐	1.000		4902229.44		A	1.4

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6835890.38		A	5.2
2	☐	1.000		6948591.08		A	1.0
3	☐	1.000		7058588.30		A	0.8
4	☐	1.000		7104075.10		A	0.1
5	☐	1.000		7058835.73		A	1.1
6	☐	1.000		7057018.09		A	1.2
7	☐	1.000		7125443.78		A	2.7
8	☐	1.000		6474731.99		A	1.1

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3576440.71		A	2.4
2	☐	1.000		3578372.45		A	1.8
3	☐	1.000		3525309.32		A	2.8
4	☐	1.000		3645095.43		A	1.3
5	☐	1.000		3503462.62		A	3.9
6	☐	1.000		3507726.82		A	1.3
7	☐	1.000		3528666.86		A	0.9
8	☐	1.000		3328050.92		A	0.9

US EPA Tune Check Report

Operator Name Jaswal
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\IP8042123MS.b
Acq. Date-Time 2023-04-21 10:53:12
Report Comment ---
Instrument Name G8403A SG19224459

[No Gas]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
9		11417	114165.05			1.076	5.000
24		102654	1026539.88			0.872	5.000
25		13666	136660.70			1.510	5.000
26		15630	156303.94			1.097	5.000
59		86555	865553.69			1.122	5.000
113		9326	93261.96			1.657	5.000
115		121390	1213895.67			2.216	5.000
206		26260	262598.79			1.881	5.000
207		24137	241367.12			1.220	5.000
208		57310	573097.10			1.658	5.000
220		1	5.10			28.917	

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

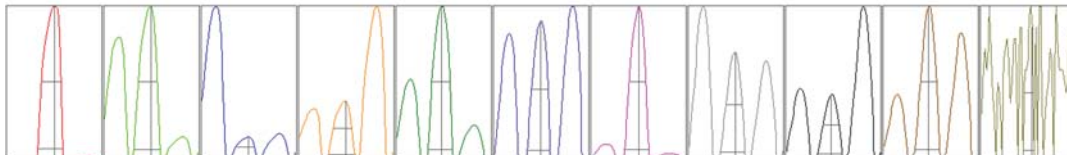
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	11401	11467	11222	11556	11436
24	103687	102167	101597	103481	102338
25	13781	13569	13346	13822	13812
26	15678	15769	15345	15749	15612
59	87273	87745	85423	86527	85809
113	9421	9389	9070	9454	9297
115	121984	124763	118083	122798	119321
206	26017	26449	25586	26908	26340
207	23869	24179	23862	24577	24197
208	56477	57547	56352	58694	57479

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	0	1

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	19500.69	9.05	8.90 - 9.10	
24	180307.55	24.00	23.90 - 24.10	
25	23738.22	25.00	24.90 - 25.10	
26	27364.71	26.00	25.90 - 26.10	
59	158695.05	58.95	58.90 - 59.10	
113	18543.30	113.00	112.90 - 113.10	
115	242550.56	115.05	114.90 - 115.10	
206	52203.95	206.00	205.90 - 206.10	
207	47989.31	206.95	206.90 - 207.10	
208	114953.14	207.95	207.90 - 208.10	
220	0.60	220.15	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.61	0.785	0.900	
24	0.60	0.827	0.900	
25	0.61	0.776	0.900	
26	0.59	0.824	0.900	
59	0.57	0.776	0.900	
113	0.52	0.724	0.900	
115	0.52	0.767	0.900	
206	0.51	0.774	0.900	
207	0.51	0.778	0.900	
208	0.50	0.781	0.900	
220	0.29	0.344		

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode --- Nebulizer Gas 0.84 L/min Dilution Gas 0.40 L/min

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RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.40 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	10.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	-6.0 V	Omega Lens	11.2 V	Deflect	16.0 V
Extract 2	-190.0 V	Cell Entrance	-30 V	Plate Bias	-50 V
Omega Bias	-105 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	4.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	---	OctP RF	170 V		

QP Parameters

Mass Gain	124	Axis Gain	0.9991	QP Bias	-4.0 V
Mass Offset	125	Axis Offset	0.00		

Hardware Settings

Torch

Torch H	1.2 mm	Torch V	-1.0 mm
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EM

Discriminator	4.5 mV	Analog HV	2316 V	Pulse HV	1698 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		15978	159778.57			0.771	
89		12667	126666.01			0.628	
205		18749	187485.36			0.962	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	16008	16028	16052	16041	15760
89	12748	12664	12731	12640	12549
205	18757	18932	18682	18891	18481

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.84 L/min	Dilution Gas	0.40 L/min
RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.40 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	10.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	-6.0 V	Omega Lens	11.2 V	Deflect	5.4 V
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US EPA Tune Check Report

Extract 2	-190.0 V	Cell Entrance	-50 V	Plate Bias	-60 V
Omega Bias	-105 V	Cell Exit	-70 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	4.5 mL/min	OctP Bias	-18.0 V		
H2 Flow	---	OctP RF	200 V		

QP Parameters

Mass Gain	124	Axis Gain	0.9991	QP Bias	-13.0 V
Mass Offset	125	Axis Offset	0.00		

Hardware Settings

Torch

Torch H	1.2 mm	Torch V	-1.0 mm
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EM

Discriminator	4.5 mV	Analog HV	2316 V	Pulse HV	1698 V
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