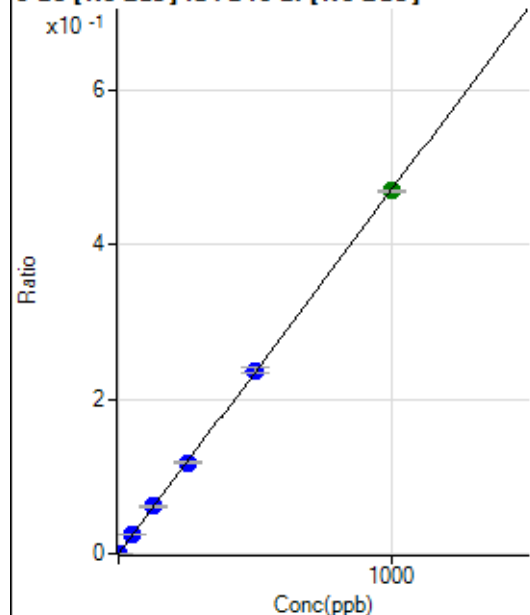


Calibration for 011CALS.d

Batch Folder: D:\Agilent\ICPMH\1\DATA\P8030722 MS.b\
 Analysis File: P8030722 MS.batch.bin
 DA Date-Time: 2022-03-07 23:21:31
 Calibration Title:
 Calibration Method: External Calibration
 VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.d	S00	2022-03-07 15:46:13
2	006CALS.d	S02	2022-03-07 15:52:22
3	008CALS.d	S03	2022-03-07 15:58:31
4	009CALS.d	S04	2022-03-07 16:01:34
5	010CALS.d	S05	2022-03-07 16:04:39
6	011CALS.d	S06	2022-03-07 16:07:43
7	012CALS.d	S07	2022-03-07 16:10:48
8	013CALS.d	S08	2022-03-07 16:13:52

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	26.66	0.0000	P	22.6
2	☐	1.000	1.028	1538.45	0.0005	P	2.1
3	☐	50.000	52.563	74712.97	0.0248	P	2.3
4	☐	125.000	130.754	190067.70	0.0616	P	2.1
5	☐	250.000	249.863	374396.33	0.1176	P	1.3
6	☐	500.000	503.317	738161.86	0.2370	P	3.5
7	☐	1000.000	997.528	1499731.05	0.4696	A	0.6
8	☐			1969.16	0.0006	P	51.4

$$y = 4.7077E-004 * x + 8.8913E-006$$

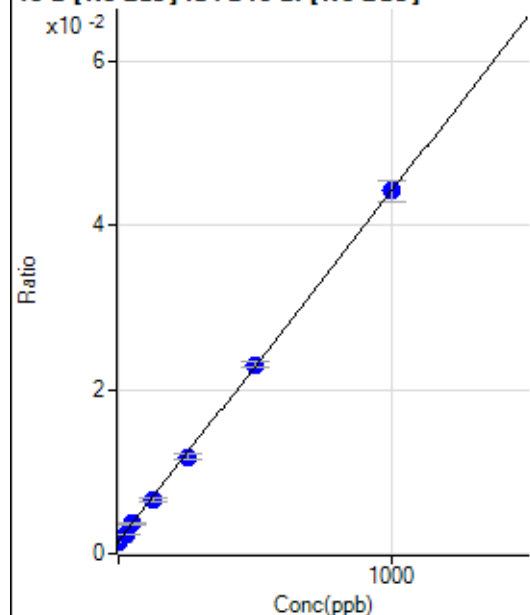
$$R = 1.0000$$

$$DL = 0.0128$$

$$BEC = 0.01889$$

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	4549.83	0.0015	P	2.3
2	☐	25.000	18.601	7207.05	0.0023	P	3.2
3	☐	50.000	49.745	10976.00	0.0036	P	6.9
4	☐	125.000	118.893	20352.91	0.0066	P	6.0
5	☐	250.000	241.746	37661.92	0.0118	P	6.6
6	☐	500.000	505.105	71968.68	0.0231	P	2.9
7	☐	1000.000	1000.447	141248.09	0.0442	P	5.5
8	☐			31776.83	0.0099	P	7.2

$$y = 4.2677E-005 * x + 0.0015$$

$$R = 0.9999$$

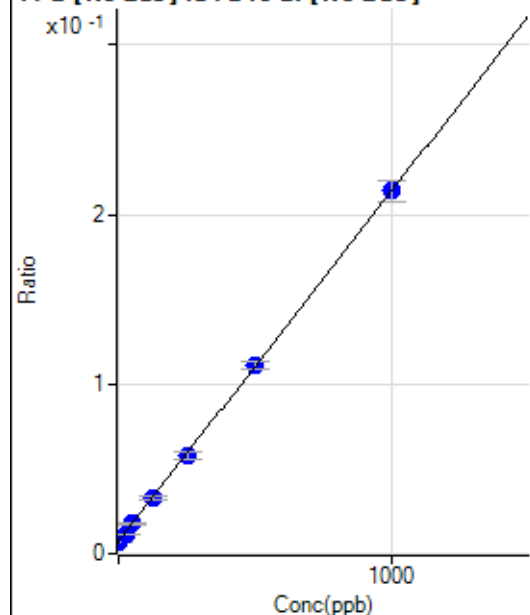
$$DL = 2.468$$

$$BEC = 35.5$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	22040.94	0.0073	P	3.4
2	☐	25.000	18.349	34737.72	0.0111	P	2.3
3	☐	50.000	51.768	54386.71	0.0180	P	5.1
4	☐	125.000	122.990	101071.08	0.0327	P	5.3
5	☐	250.000	244.354	183832.61	0.0578	P	7.6
6	☐	500.000	502.490	346451.62	0.1110	P	3.6
7	☐	1000.000	1000.495	683085.20	0.2138	P	6.0
8	☐			152230.01	0.0472	P	8.3

$$y = 2.0638E-004 * x + 0.0073$$

$$R = 1.0000$$

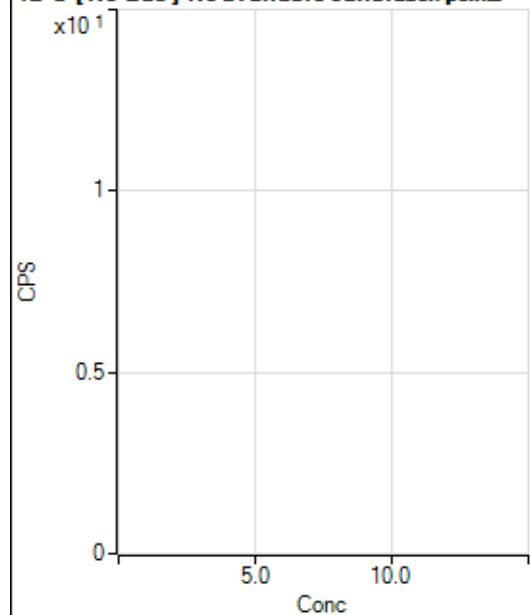
$$DL = 3.633$$

$$BEC = 35.57$$

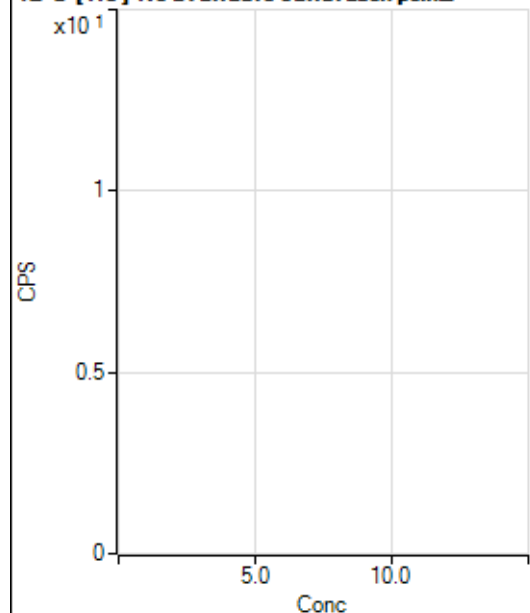
Weight: <None>

Min Conc: 0

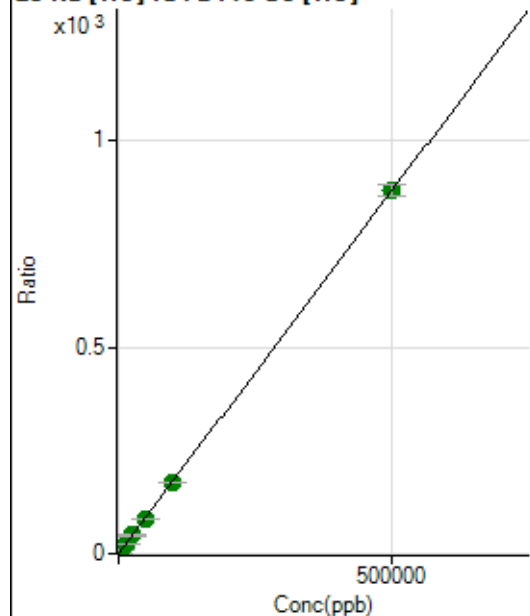
12 C [No Gas] No available calibration points



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐			8659416.86		A	1.2
2	☐			9046578.59		A	2.7
3	☐			9643968.27		A	0.8
4	☐			10842754.84		A	2.0
5	☐			11256266.31		A	2.0
6	☐			11878131.95		A	4.4
7	☐			11692252.69		A	1.7
8	☐			9558623.48		A	1.6

12 C [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			79700.16		P	1.4
2	☐			85270.38		P	1.1
3	☐			91205.82		P	0.9
4	☐			100877.79		P	0.9
5	☐			103906.24		P	1.2
6	☐			112710.10		P	1.0
7	☐			109630.83		P	0.8
8	☐			95317.06		P	1.5

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	19285.46	0.1318	P	5.3
2	☐	500.000	465.246	140487.84	0.9474	P	0.6
3	☐	5000.000	5006.533	1342042.74	8.9088	A	3.6
4	☐	12500.000	12438.102	3254910.03	21.9372	A	1.4
5	☐	25000.000	26185.151	6308665.63	46.0373	A	8.4
6	☐	50000.000	48746.020	12361601.75	85.5890	A	0.8
7	☐	100000.00	97607.626	24828062.18	171.2489	A	1.3
8	☐	500000.00	500546.13	127381052.8	877.6456	A	3.1

$$y = 0.0018 * x + 0.1318$$

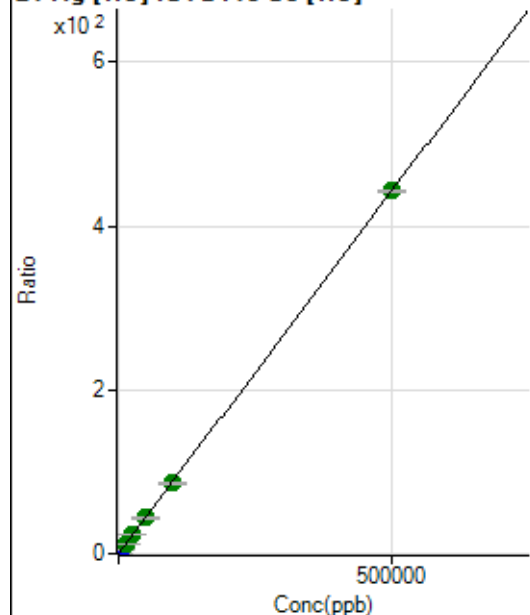
$$R = 1.0000$$

$$DL = 11.85$$

$$BEC = 75.16$$

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	288.90	0.0020	P	27.0
2	☐	500.000	479.082	63162.68	0.4260	P	1.1
3	☐	5000.000	5013.026	668783.44	4.4385	P	1.9
4	☐	12500.000	12445.017	1634450.67	11.0157	A	2.0
5	☐	25000.000	26728.128	3242238.12	23.6562	A	7.9
6	☐	50000.000	49248.539	6295202.18	43.5866	A	0.7
7	☐	100000.00	97046.245	12453218.33	85.8872	A	1.3
8	☐	500000.00	500580.75	64302366.71	443.0124	A	0.7

$$y = 8.8499\text{E-}004 * x + 0.0020$$

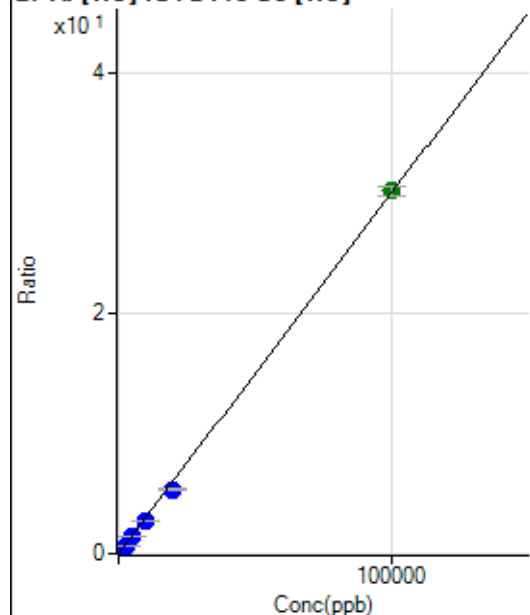
$$R = 1.0000$$

$$DL = 1.816$$

$$BEC = 2.24$$

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	81.24	0.0006	P	9.0
2	☐	20.000	18.145	890.75	0.0060	P	3.6
3	☐	1000.000	906.977	41150.16	0.2731	P	1.8
4	☐	2500.000	2268.598	101230.54	0.6822	P	0.1
5	☐	5000.000	4845.070	199535.23	1.4565	P	8.8
6	☐	10000.000	9069.304	393665.37	2.7258	P	0.8
7	☐	20000.000	17800.813	775575.94	5.3495	P	0.8
8	☐	100000.00	100547.36	4385344.81	30.2141	A	2.5

$$y = 3.0049\text{E-}004 * x + 5.5549\text{E-}004$$

$$R = 0.9997$$

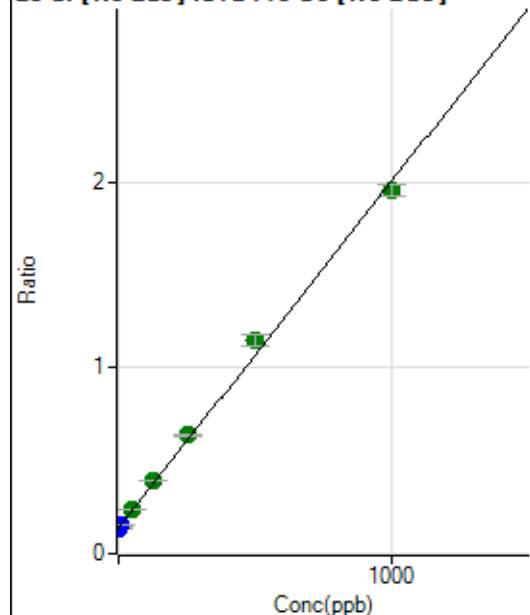
$$DL = 0.5013$$

$$BEC = 1.849$$

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	664821.34	0.1381	P	3.8
2	☐	10.000	8.575	714190.58	0.1541	P	1.4
3	☐	50.000	54.033	1163344.44	0.2390	A	2.4
4	☐	125.000	137.488	1900347.09	0.3948	A	1.6
5	☐	250.000	268.245	3100122.49	0.6388	A	2.5
6	☐	500.000	541.847	5519518.96	1.1496	A	5.1
7	☐	1000.000	972.767	9645617.14	1.9540	A	3.0
8	☐			968410.92	0.1949	A	1.2

$$y = 0.0019 * x + 0.1381$$

$$R = 0.9984$$

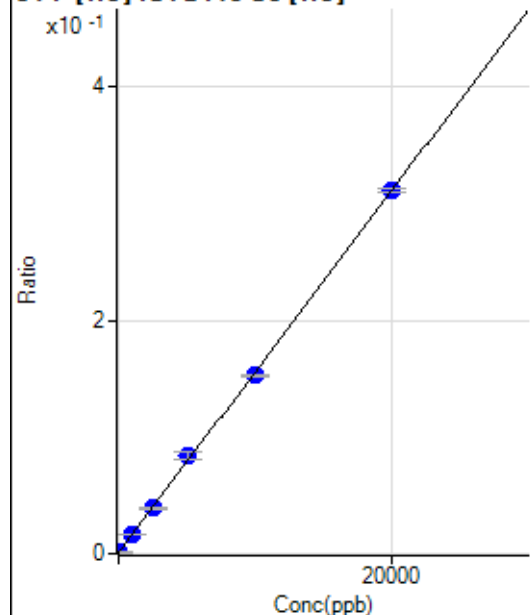
$$DL = 8.494$$

$$BEC = 73.97$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	-8.249	97.23	0.0007	P	7.7
2	☐	0.000	8.249	136.11	0.0009	P	25.3
3	☐	1000.000	1011.362	2480.83	0.0165	P	2.1
4	☐	2500.000	2483.901	5829.11	0.0393	P	5.4
5	☐	5000.000	5394.777	11563.23	0.0844	P	8.6
6	☐	10000.000	9809.136	22067.35	0.1528	P	0.7
7	☐	20000.000	19998.182	45043.07	0.3107	P	1.0
8	☐			130.56	0.0009	P	9.6

$$y = 1.5496E-005 * x + 7.9086E-004$$

$$R = 0.9997$$

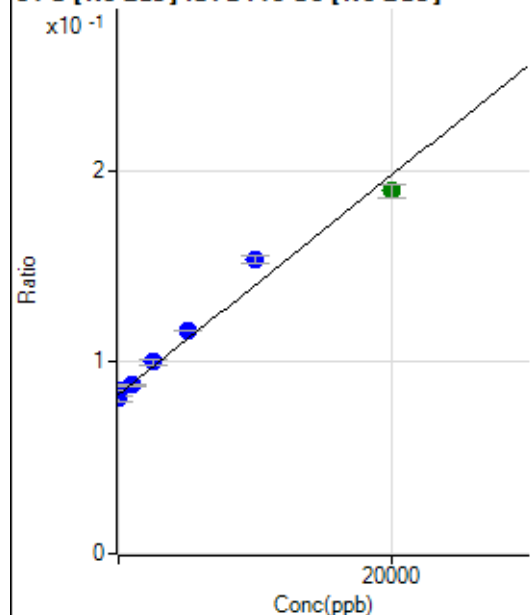
$$DL = 27.48$$

$$BEC = 51.04$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	-366.750	389602.35	0.0809	P	4.3
2	☐	0.000	366.750	394570.43	0.0851	P	0.8
3	☐	1000.000	858.182	428189.18	0.0879	P	0.9
4	☐	2500.000	2988.152	481971.60	0.1001	P	2.9
5	☐	5000.000	5827.946	564861.28	0.1164	P	0.7
6	☐	10000.000	12371.467	738295.47	0.1538	P	2.7
7	☐	20000.000	18553.352	933770.62	0.1892	A	3.8
8	☐			346263.51	0.0697	P	1.8

$$y = 5.7230E-006 * x + 0.0830$$

$$R = 0.9870$$

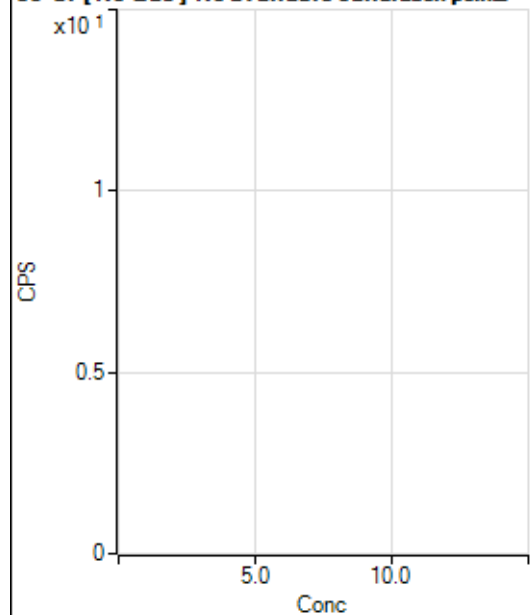
$$DL = 1102$$

$$BEC = 1.451E+04$$

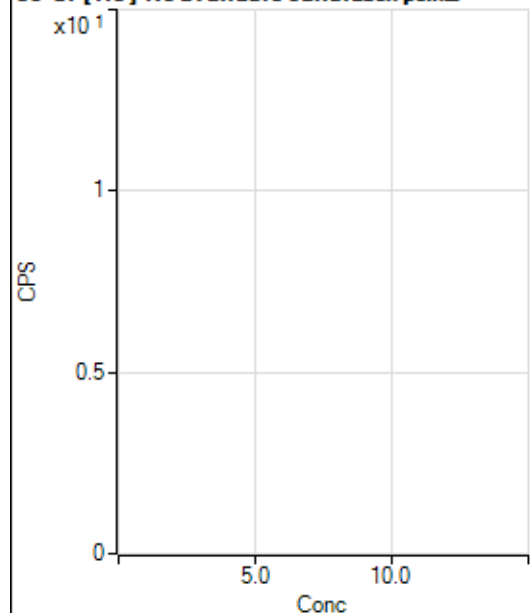
Weight: <None>

Min Conc: 0

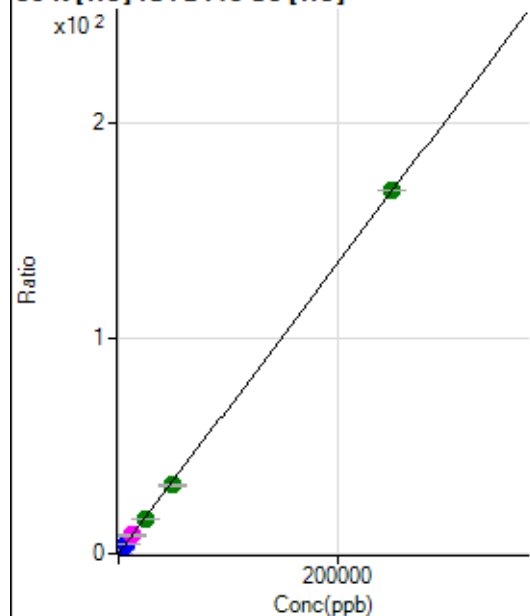
35 Cl [No Gas] No available calibration points



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			494410.85		P	0.8
2	☐			472074.87		P	0.6
3	☐			422826.21		P	1.0
4	☐			415980.75		P	0.4
5	☐			398020.58		P	0.7
6	☐			403034.29		P	1.1
7	☐			377091.77		P	0.9
8	☐			406945.69		P	0.3

35 Cl [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2833.69		P	6.9
2	☐			2767.01		P	7.2
3	☐			2433.61		P	3.6
4	☐			2258.57		P	4.5
5	☐			2330.81		P	4.9
6	☐			2350.26		P	9.6
7	☐			2155.77		P	1.2
8	☐			2361.37		P	1.3

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	17449.88	0.1191	P	0.6
2	☐	500.000	452.493	62817.72	0.4237	P	2.1
3	☐	2500.000	2356.763	256961.62	1.7054	P	1.9
4	☐	6250.000	5879.384	604842.93	4.0764	P	0.9
5	☐	12500.000	12884.239	1204535.87	8.7911	M	8.7
6	☐	25000.000	24131.782	2362834.73	16.3615	A	2.2
7	☐	50000.000	47236.341	4626879.53	31.9126	A	1.6
8	☐	250000.00	250631.13	24503123.46	168.8119	A	0.1

$$y = 6.7307E-004 * x + 0.1191$$

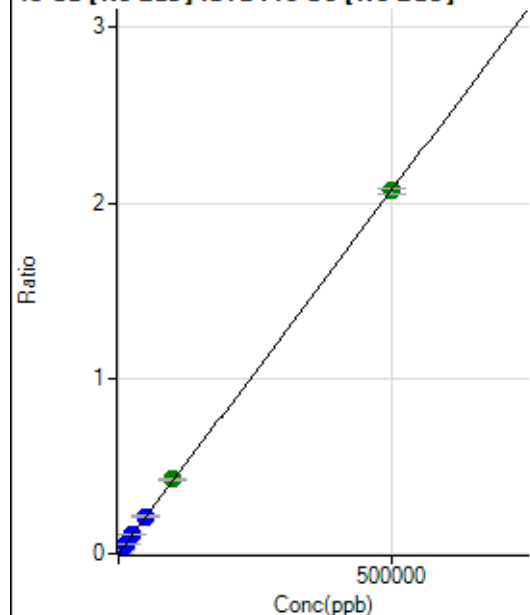
$$R = 0.9999$$

$$DL = 3.106$$

$$BEC = 177$$

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	234.55	0.0000	P	0.7
2	☐	500.000	480.192	9442.36	0.0020	P	1.1
3	☐	5000.000	5011.015	101272.61	0.0208	P	1.4
4	☐	12500.000	12723.556	253849.54	0.0527	P	3.2
5	☐	25000.000	25496.441	512672.20	0.1056	P	1.4
6	☐	50000.000	51534.828	1024636.14	0.2135	P	2.0
7	☐	100000.00	102589.58	2097889.93	0.4249	A	1.5
8	☐	500000.00	499298.10	10274363.95	2.0679	A	1.5

$$y = 4.1414\text{E-}006 * x + 4.8668\text{E-}005$$

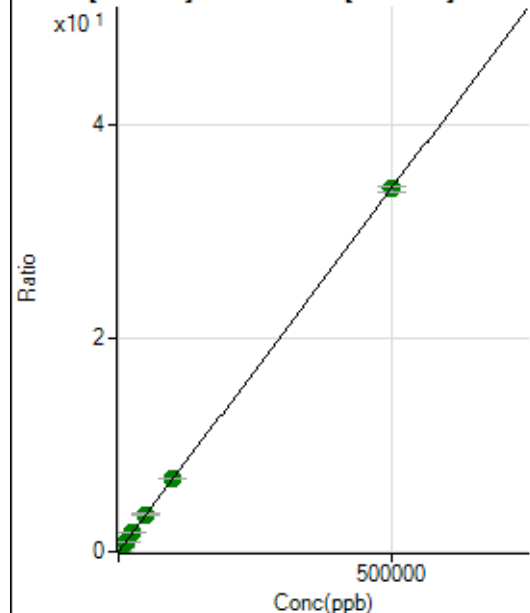
$$R = 1.0000$$

$$DL = 0.2331$$

$$BEC = 11.75$$

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	20609.70	0.0043	P	4.2
2	☐	500.000	484.593	172405.80	0.0372	P	0.9
3	☐	5000.000	5193.451	1738641.06	0.3571	A	1.7
4	☐	12500.000	12699.343	4174123.66	0.8669	A	3.1
5	☐	25000.000	25335.663	8373114.52	1.7253	A	0.9
6	☐	50000.000	51190.549	16711396.21	3.4816	A	1.9
7	☐	100000.00	100543.16	33737729.50	6.8340	A	1.6
8	☐	500000.00	499748.62	168696719.8	33.9512	A	1.4

$$y = 6.7928\text{E-}005 * x + 0.0043$$

$$R = 1.0000$$

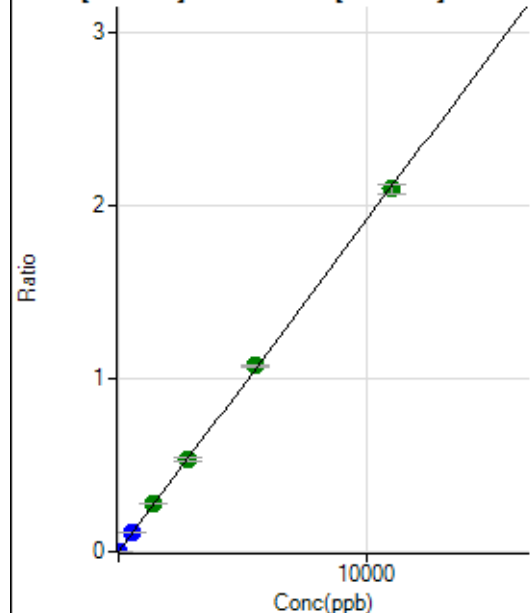
$$DL = 7.862$$

$$BEC = 63.03$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	322.23	0.0001	P	3.6
2	☐	5.000	5.094	4845.40	0.0010	P	5.6
3	☐	550.000	568.393	531731.34	0.1092	P	2.8
4	☐	1375.000	1439.432	1331413.57	0.2765	A	1.5
5	☐	2750.000	2784.089	2595338.08	0.5347	A	2.3
6	☐	5500.000	5601.869	5164352.37	1.0758	A	1.4
7	☐	11000.000	10931.570	10361306.91	2.0993	A	2.5
8	☐			11837.73	0.0024	P	44.5

$$y = 1.9203\text{E-}004 * x + 6.6894\text{E-}005$$

$$R = 0.9999$$

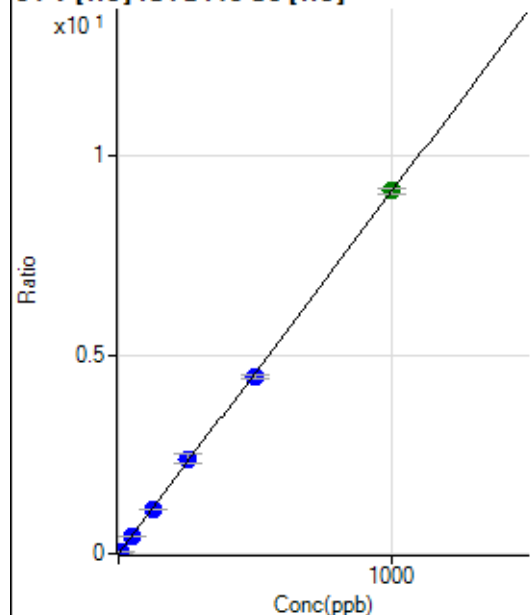
$$DL = 0.03718$$

$$BEC = 0.3483$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	6.67	0.0000	P	2.9
2	☐	5.000	4.897	6616.04	0.0446	P	0.8
3	☐	50.000	49.438	67796.55	0.4500	P	3.2
4	☐	125.000	123.217	166413.39	1.1216	P	0.7
5	☐	250.000	262.900	327812.19	2.3930	P	9.1
6	☐	500.000	489.014	642805.68	4.4510	P	1.6
7	☐	1000.000	1002.519	1322956.66	9.1249	A	1.9
8	☐			443.35	0.0031	P	24.4

$$y = 0.0091 * x + 4.5553\text{E-}005$$

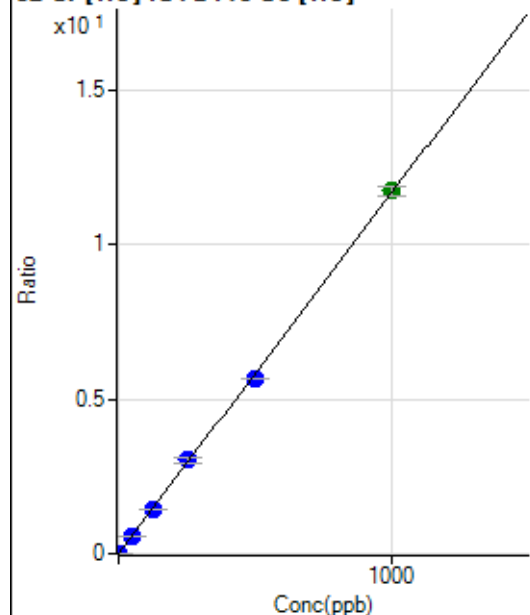
$$R = 0.9998$$

$$DL = 0.0004351$$

$$BEC = 0.005005$$

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	730.03	0.0050	P	5.0
2	☐	2.000	1.910	4046.17	0.0273	P	1.4
3	☐	50.000	48.206	85612.33	0.5680	P	0.5
4	☐	125.000	120.096	208874.95	1.4077	P	0.5
5	☐	250.000	258.636	414867.89	3.0259	P	7.2
6	☐	500.000	485.583	819860.77	5.6767	P	0.6
7	☐	1000.000	1005.752	1704133.99	11.7524	A	2.5
8	☐			4984.26	0.0343	P	7.6

$$y = 0.0117 * x + 0.0050$$

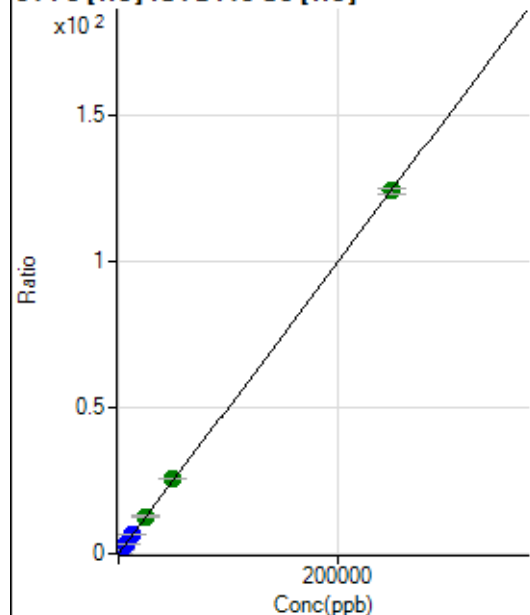
$$R = 0.9998$$

$$DL = 0.06421$$

$$BEC = 0.4264$$

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	512.98	0.0035	P	4.0
2	☐	50.000	48.422	4083.98	0.0275	P	2.4
3	☐	2500.000	2474.071	185565.21	1.2316	P	2.1
4	☐	6250.000	6262.438	461765.16	3.1120	P	1.5
5	☐	12500.000	13278.664	903499.87	6.5947	P	8.8
6	☐	25000.000	25618.235	1837000.06	12.7198	A	1.8
7	☐	50000.000	51116.190	3679169.50	25.3765	A	0.7
8	☐	250000.00	249675.95	17988960.24	123.9372	A	1.5

$$y = 4.9638E-004 * x + 0.0035$$

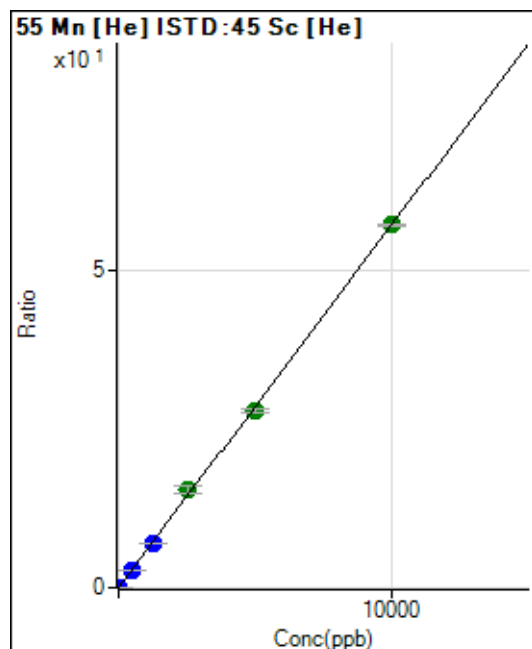
$$R = 1.0000$$

$$DL = 0.8414$$

$$BEC = 7.05$$

Weight: <None>

Min Conc: 0



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	38.89	0.0003	P	25.2
2	☐	1.000	1.014	898.93	0.0061	P	11.3
3	☐	500.000	488.075	420857.97	2.7934	P	2.5
4	☐	1250.000	1211.137	1028457.91	6.9313	P	0.3
5	☐	2500.000	2697.467	2115138.33	15.4372	A	8.6
6	☐	5000.000	4896.240	4046630.94	28.0203	A	1.8
7	☐	10000.000	10007.967	8303717.10	57.2734	A	0.3
8	☐			5813.54	0.0401	P	8.3

$$y = 0.0057 * x + 2.6422E-004$$

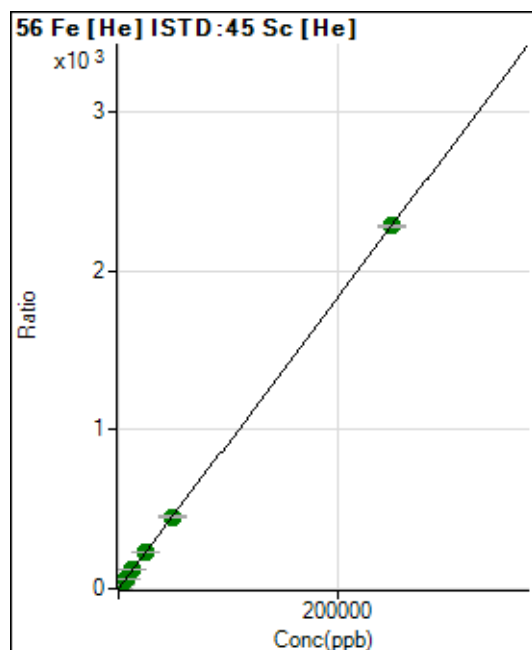
$$R = 0.9997$$

$$DL = 0.03494$$

$$BEC = 0.04617$$

Weight: <None>

Min Conc: 0



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2872.56	0.0196	P	5.8
2	☐	50.000	47.910	67695.33	0.4565	P	1.6
3	☐	2500.000	2540.902	3493541.77	23.1916	A	4.0
4	☐	6250.000	6280.382	8501262.57	57.2941	A	0.7
5	☐	12500.000	13337.464	16671746.21	121.6516	A	8.1
6	☐	25000.000	24924.855	32829997.03	227.3237	A	1.8
7	☐	50000.000	49315.614	65198870.90	449.7571	A	2.9
8	☐	250000.00	250101.35	331067725.9	2.280837	A	0.8

$$y = 0.0091 * x + 0.0196$$

$$R = 1.0000$$

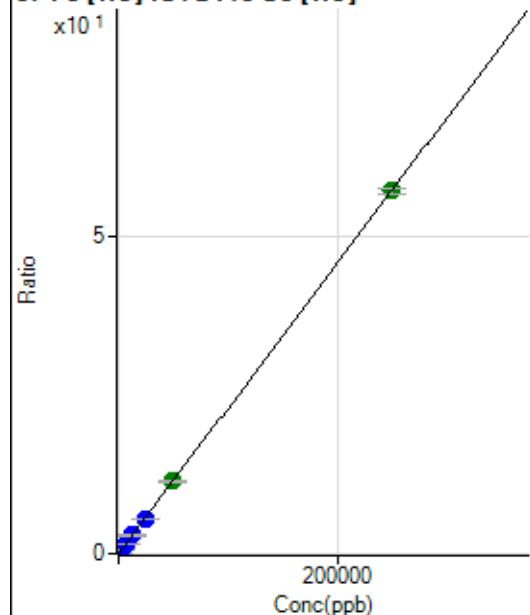
$$DL = 0.3747$$

$$BEC = 2.152$$

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	203.71	0.0014	P	38.3
2	☐	50.000	43.588	1685.32	0.0114	P	8.8
3	☐	2500.000	2376.609	82128.36	0.5451	P	2.1
4	☐	6250.000	5982.757	203280.56	1.3700	P	0.3
5	☐	12500.000	12833.843	402552.11	2.9373	P	8.0
6	☐	25000.000	24023.068	793879.52	5.4969	P	0.7
7	☐	50000.000	50100.232	1661623.85	11.4623	A	2.9
8	☐	250000.00	250068.87	8303412.11	57.2071	A	1.8

$$y = 2.2876E-004 * x + 0.0014$$

$$R = 1.0000$$

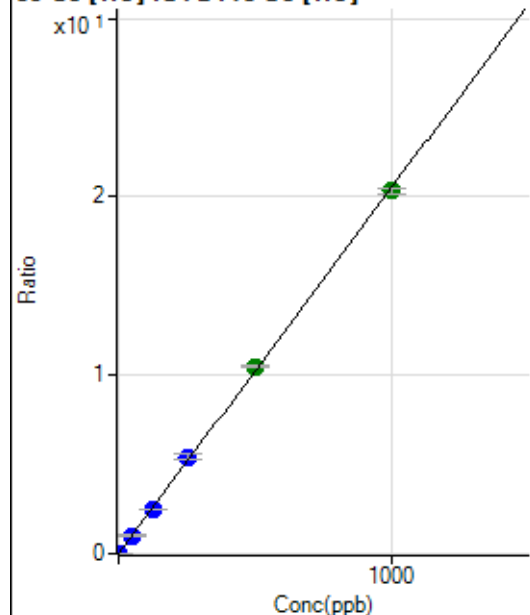
$$DL = 7.028$$

$$BEC = 6.123$$

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	86.67	0.0006	P	14.3
2	☐	1.000	0.943	2953.67	0.0199	P	1.7
3	☐	50.000	49.516	153061.72	1.0157	P	1.6
4	☐	125.000	121.820	370654.11	2.4981	P	0.6
5	☐	250.000	265.237	745543.07	5.4383	P	7.4
6	☐	500.000	510.596	1511869.40	10.4685	A	1.0
7	☐	1000.000	991.314	2946468.64	20.3238	A	1.8
8	☐			7605.45	0.0524	P	4.2

$$y = 0.0205 * x + 5.9004E-004$$

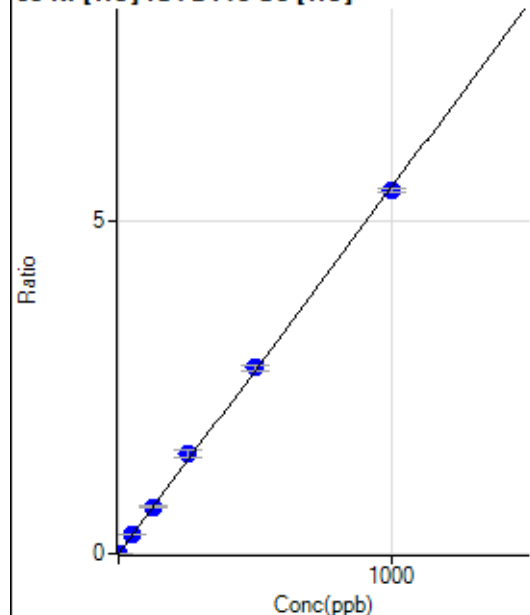
$$R = 0.9998$$

$$DL = 0.01232$$

$$BEC = 0.02878$$

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	27.78	0.0002	P	38.3
2	☐	1.000	1.023	863.37	0.0058	P	4.9
3	☐	50.000	51.204	42484.58	0.2821	P	4.4
4	☐	125.000	128.303	104829.37	0.7065	P	1.5
5	☐	250.000	273.235	206179.59	1.5044	P	8.0
6	☐	500.000	506.994	403087.94	2.7912	P	2.6
7	☐	1000.000	990.221	790371.78	5.4514	P	1.2
8	☐			2534.70	0.0175	P	3.6

$$y = 0.0055 * x + 1.9035E-004$$

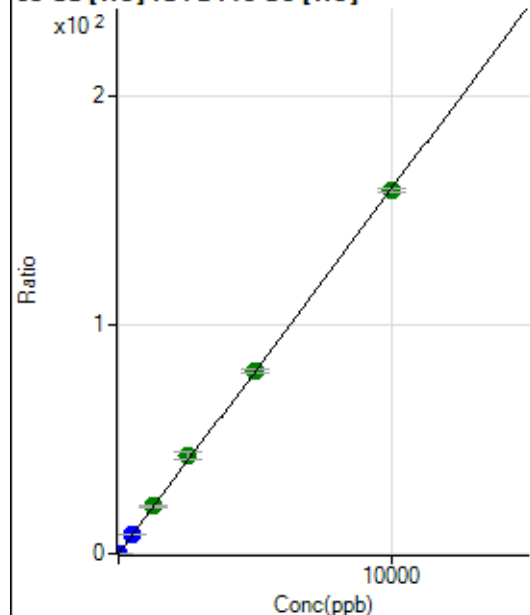
$$R = 0.9997$$

$$DL = 0.03974$$

$$BEC = 0.03458$$

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	636.69	0.0043	P	2.7
2	☐	2.000	2.007	5379.95	0.0363	P	0.6
3	☐	500.000	505.556	1213022.87	8.0491	P	1.1
4	☐	1250.000	1304.018	3079559.47	20.7548	A	2.0
5	☐	2500.000	2704.419	5898050.88	43.0389	A	8.4
6	☐	5000.000	4996.478	11482409.14	79.5116	A	2.7
7	☐	10000.000	9943.626	22940347.71	158.2340	A	1.2
8	☐			14540.34	0.1002	P	10.1

$$y = 0.0159 * x + 0.0043$$

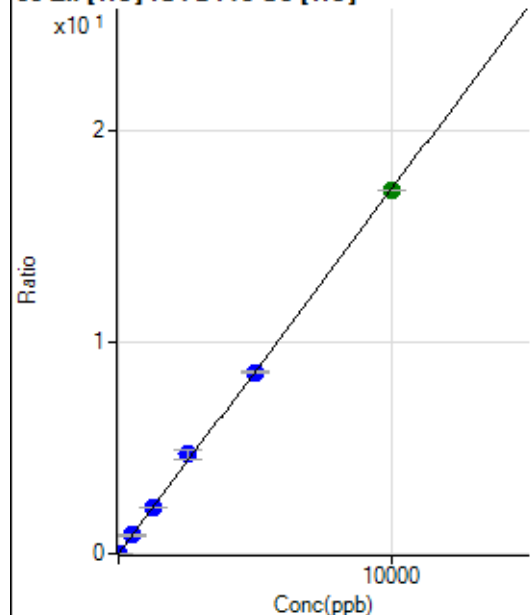
$$R = 0.9998$$

$$DL = 0.02218$$

$$BEC = 0.2732$$

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	121.11	0.0008	P	5.7
2	☐	2.000	2.315	715.58	0.0048	P	11.5
3	☐	500.000	509.228	132472.39	0.8793	P	3.4
4	☐	1250.000	1265.758	324129.41	2.1845	P	0.2
5	☐	2500.000	2722.220	643364.41	4.6971	P	9.3
6	☐	5000.000	4978.277	1240501.79	8.5892	P	0.7
7	☐	10000.000	9952.875	2489570.74	17.1713	A	0.2
8	☐			4385.17	0.0302	P	4.2

$$y = 0.0017 * x + 8.2755E-004$$

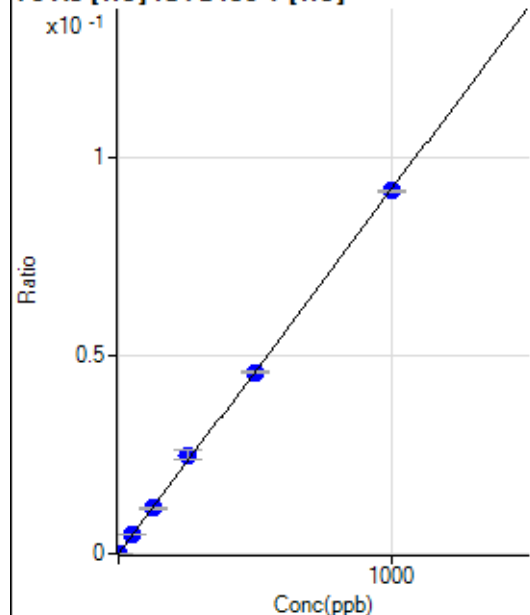
$$R = 0.9997$$

$$DL = 0.08202$$

$$BEC = 0.4797$$

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	4.33	0.0000	P	15.0
2	☐	1.000	1.069	159.02	0.0001	P	7.9
3	☐	50.000	51.105	7437.38	0.0047	P	3.0
4	☐	125.000	125.337	18197.20	0.0116	P	2.2
5	☐	250.000	270.515	36203.13	0.0249	P	9.4
6	☐	500.000	497.785	70414.33	0.0459	P	1.1
7	☐	1000.000	995.882	141643.75	0.0918	P	0.6
8	☐			88.68	0.0001	P	12.3

$$y = 9.2182E-005 * x + 2.8773E-006$$

$$R = 0.9998$$

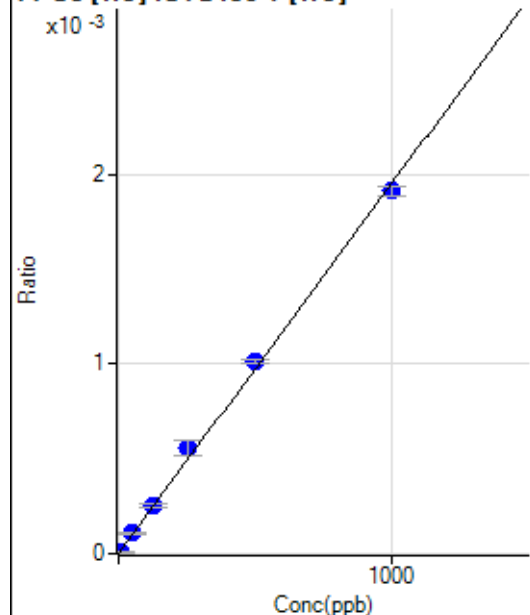
$$DL = 0.01408$$

$$BEC = 0.03121$$

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	2.896	10.00	0.0000	P	59.0
3	☐	50.000	55.556	172.22	0.0001	P	8.8
4	☐	125.000	127.975	394.45	0.0003	P	7.6
5	☐	250.000	285.508	807.81	0.0006	P	14.8
6	☐	500.000	519.108	1555.66	0.0010	P	2.6
7	☐	1000.000	980.930	2954.79	0.0019	P	2.6
8	☐			1.11	0.0000	P	173.

$$y = 1.9518\text{E-}006 * x + 7.4962\text{E-}007$$

$$R = 0.9990$$

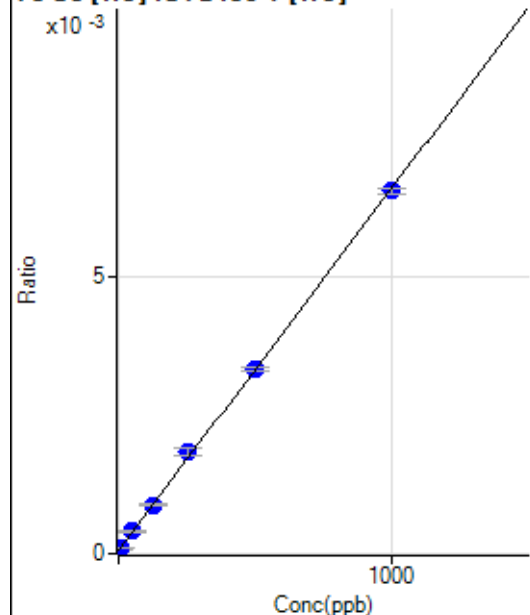
$$DL = 1.996$$

$$BEC = 0.3841$$

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	88.34	0.0001	P	3.3
2	☐	5.000	5.965	153.02	0.0001	P	3.7
3	☐	50.000	52.642	635.41	0.0004	P	5.5
4	☐	125.000	125.356	1381.88	0.0009	P	3.3
5	☐	250.000	272.059	2668.53	0.0018	P	6.5
6	☐	500.000	501.571	5116.79	0.0033	P	2.1
7	☐	1000.000	993.518	10100.98	0.0065	P	1.8
8	☐			96.68	0.0001	P	14.3

$$y = 6.5314\text{E-}006 * x + 5.8565\text{E-}005$$

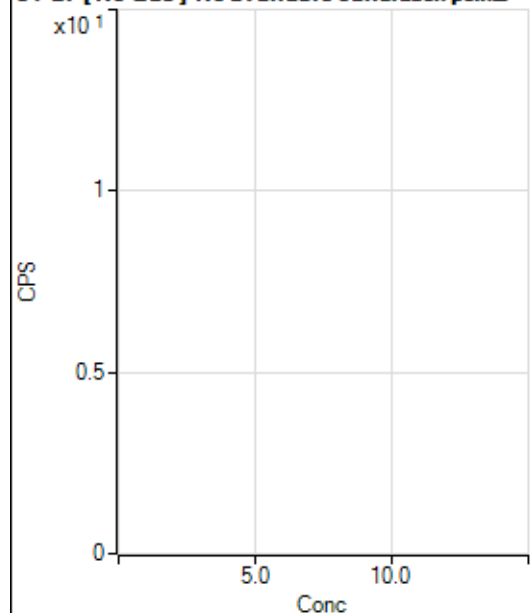
$$R = 0.9997$$

$$DL = 0.8877$$

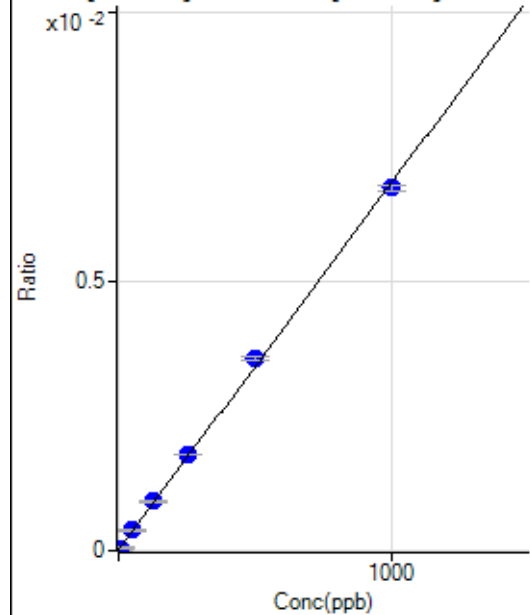
$$BEC = 8.967$$

Weight: <None>

Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			24774.37		P	3.0
2	☐			24169.49		P	5.2
3	☐			23340.28		P	0.8
4	☐			24105.93		P	4.5
5	☐			22825.79		P	3.7
6	☐			23554.46		P	1.6
7	☐			22772.30		P	3.0
8	☐			24700.51		P	1.5

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	199.02	0.0000	P	39.0
2	☐	5.000	4.676	657.71	0.0000	P	54.8
3	☐	50.000	53.433	5587.31	0.0004	P	6.8
4	☐	125.000	132.544	13558.40	0.0009	P	2.0
5	☐	250.000	258.858	26474.81	0.0018	P	0.9
6	☐	500.000	520.943	52661.49	0.0036	P	2.2
7	☐	1000.000	986.201	103713.06	0.0067	P	1.5
8	☐			487.42	0.0000	P	61.7

$$y = 6.8104E-006 * x + 1.3547E-005$$

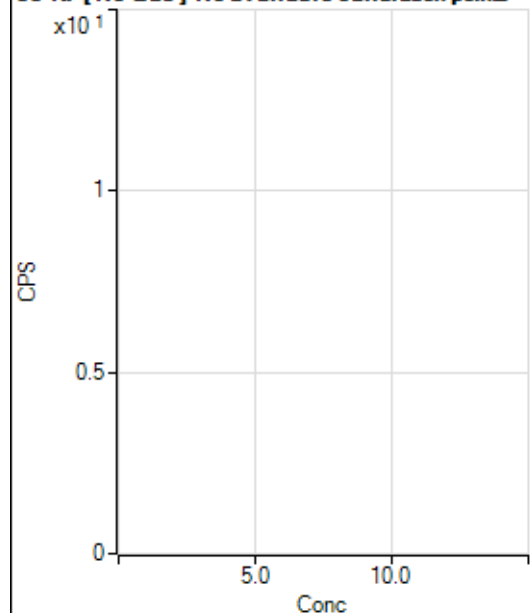
$$R = 0.9996$$

$$DL = 2.329$$

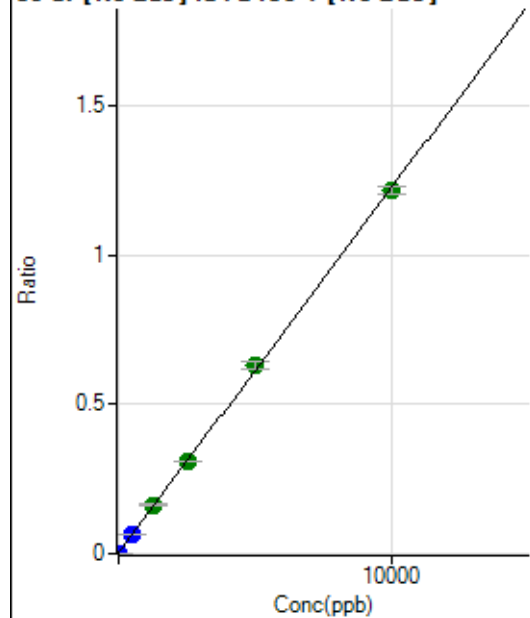
$$BEC = 1.989$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			23952.38		P	0.6
2	☐			24132.62		P	1.0
3	☐			23840.08		P	1.0
4	☐			24180.64		P	1.3
5	☐			24064.21		P	0.5
6	☐			23841.34		P	0.9
7	☐			24105.08		P	1.1
8	☐			24166.44		P	0.8

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	37954.88	0.0026	P	2.9
2	☐	1.000	1.344	40136.08	0.0028	P	3.4
3	☐	500.000	516.326	974692.08	0.0658	P	0.9
4	☐	1250.000	1314.284	2420098.82	0.1636	A	3.2
5	☐	2500.000	2520.068	4638736.08	0.3112	A	0.5
6	☐	5000.000	5147.725	9359252.64	0.6331	A	3.6
7	☐	10000.000	9912.269	18747575.42	1.2166	A	2.2
8	☐			73745.59	0.0048	P	17.5

$$y = 1.2248E-004 * x + 0.0026$$

$$R = 0.9998$$

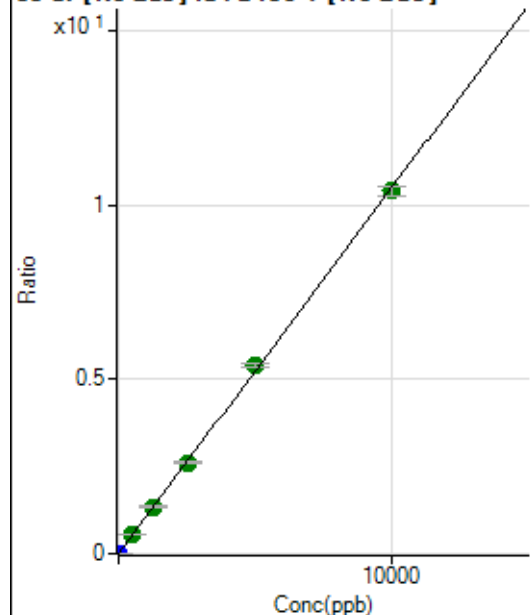
$$DL = 1.85$$

$$BEC = 21.17$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	158.34	0.0000	P	29.4
2	☐	1.000	1.022	15750.95	0.0011	P	1.0
3	☐	500.000	514.584	7985190.11	0.5393	A	0.6
4	☐	1250.000	1279.266	19837438.46	1.3408	A	1.7
5	☐	2500.000	2488.359	38867451.91	2.6080	A	1.6
6	☐	5000.000	5149.934	79819045.54	5.3976	A	1.8
7	☐	10000.000	9923.556	160255718.8	10.4008	A	2.9
8	☐			296100.97	0.0193	P	38.2

$$y = 0.0010 * x + 1.0824E-005$$

$$R = 0.9998$$

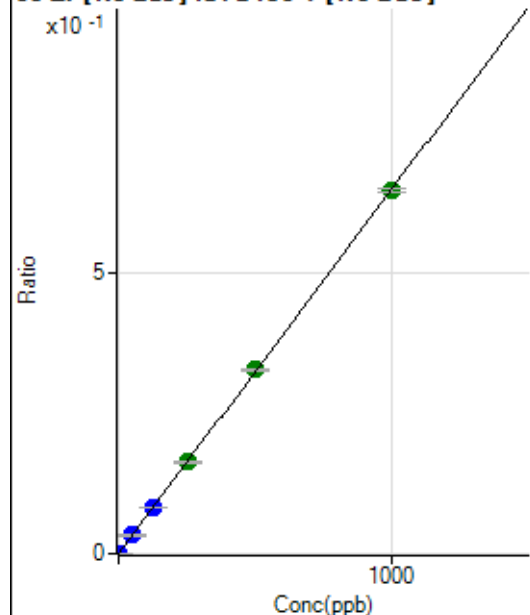
$$DL = 0.009108$$

$$BEC = 0.01033$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	641.70	0.0000	P	2.0
2	☐	1.000	0.948	9611.93	0.0007	P	0.7
3	☐	50.000	50.192	483706.18	0.0327	P	0.7
4	☐	125.000	126.020	1212680.26	0.0820	P	0.9
5	☐	250.000	250.923	2431646.08	0.1631	A	1.8
6	☐	500.000	506.342	4869511.00	0.3292	A	1.1
7	☐	1000.000	996.461	9983341.63	0.6478	A	1.0
8	☐			16229.63	0.0011	P	39.3

$$y = 6.5002E-004 * x + 4.3836E-005$$

$$R = 1.0000$$

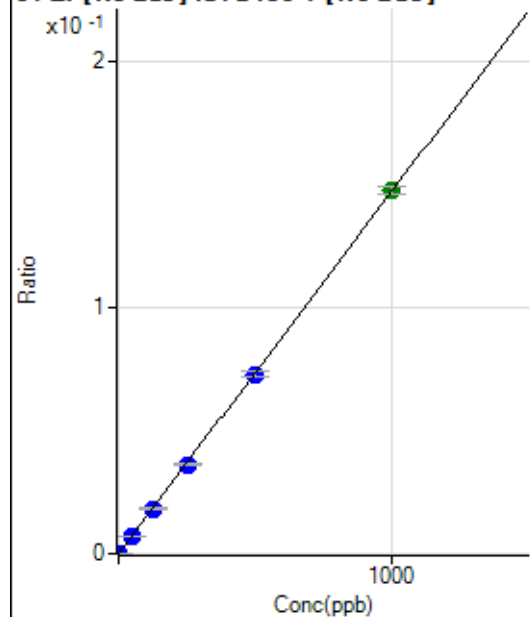
$$DL = 0.003964$$

$$BEC = 0.06744$$

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	116.67	0.0000	P	19.9
2	☐	1.000	0.901	2044.66	0.0001	P	7.8
3	☐	50.000	49.531	107983.16	0.0073	P	1.6
4	☐	125.000	124.194	270362.26	0.0183	P	2.9
5	☐	250.000	245.611	538568.19	0.0361	P	1.3
6	☐	500.000	496.597	1080066.29	0.0731	P	3.1
7	☐	1000.000	1002.923	2273622.56	0.1475	A	2.1
8	☐			3475.62	0.0002	P	32.6

$$y = 1.4709\text{E-}004 * x + 7.9796\text{E-}006$$

$$R = 1.0000$$

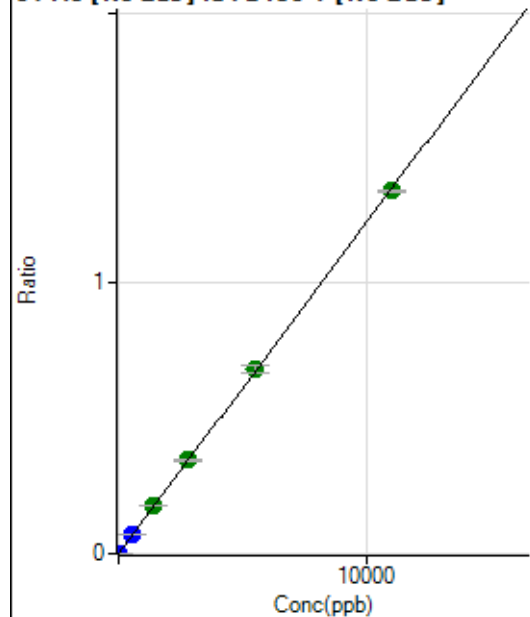
$$DL = 0.03232$$

$$BEC = 0.05425$$

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	194.45	0.0000	P	15.0
2	☐	5.000	6.114	11118.61	0.0008	P	5.4
3	☐	550.000	566.694	1028866.02	0.0695	P	1.4
4	☐	1375.000	1437.158	2607149.41	0.1762	A	1.8
5	☐	2750.000	2812.904	5139925.38	0.3449	A	1.8
6	☐	5500.000	5566.611	10091479.74	0.6825	A	3.4
7	☐	11000.000	10942.363	20677331.02	1.3416	A	0.8
8	☐			29096.61	0.0019	P	47.1

$$y = 1.2261\text{E-}004 * x + 1.3283\text{E-}005$$

$$R = 0.9999$$

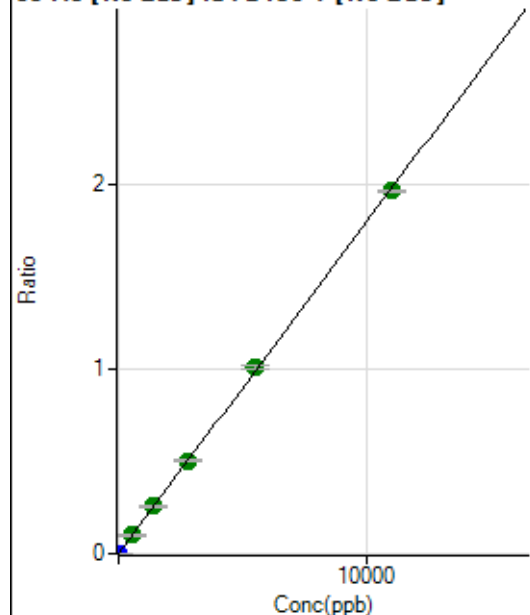
$$DL = 0.04861$$

$$BEC = 0.1083$$

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	47.22	0.0000	P	27.0
2	☐	5.000	5.012	13195.56	0.0009	P	3.4
3	☐	550.000	553.455	1476167.98	0.0997	A	1.3
4	☐	1375.000	1423.208	3794090.19	0.2564	A	1.5
5	☐	2750.000	2802.253	7523099.04	0.5048	A	1.7
6	☐	5500.000	5608.785	14943267.52	1.0104	A	2.5
7	☐	11000.000	10926.346	30339248.25	1.9683	A	0.2
8	☐			40374.80	0.0026	P	47.6

$$y = 1.8015E-004 * x + 3.2272E-006$$

$$R = 0.9999$$

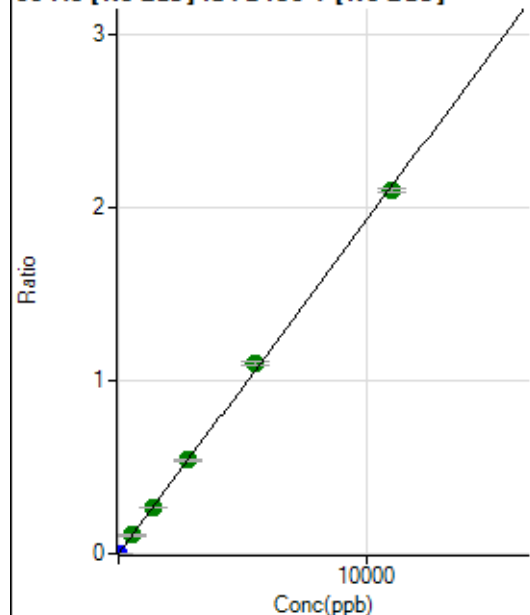
$$DL = 0.01451$$

$$BEC = 0.01791$$

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	225.01	0.0000	P	40.3
2	☐	5.000	5.228	14916.79	0.0010	P	1.1
3	☐	550.000	553.417	1581446.72	0.1068	A	2.7
4	☐	1375.000	1389.399	3968083.55	0.2681	A	1.9
5	☐	2750.000	2806.176	8070089.07	0.5415	A	1.8
6	☐	5500.000	5721.156	16327815.30	1.1040	A	2.2
7	☐	11000.000	10873.407	32338321.56	2.0983	A	0.9
8	☐			49405.96	0.0032	P	41.0

$$y = 1.9297E-004 * x + 1.5420E-005$$

$$R = 0.9997$$

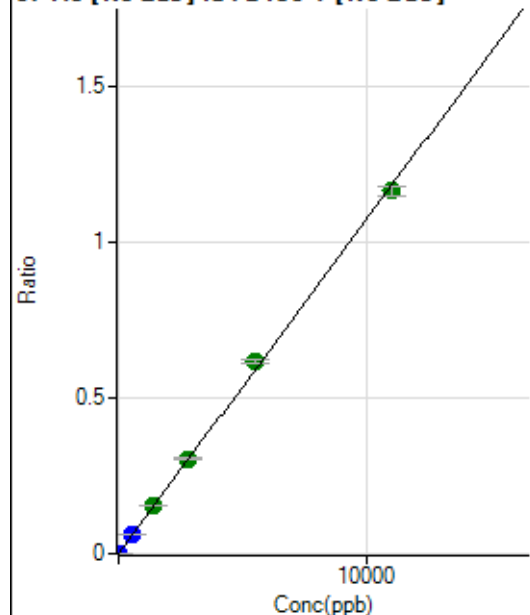
$$DL = 0.09655$$

$$BEC = 0.07991$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	19.44	0.0000	P	89.7
2	☐	5.000	5.098	7996.97	0.0005	P	5.1
3	☐	550.000	562.417	894902.90	0.0604	P	1.8
4	☐	1375.000	1422.169	2261723.86	0.1528	A	1.1
5	☐	2750.000	2839.444	4547365.73	0.3051	A	2.7
6	☐	5500.000	5755.749	9152266.78	0.6186	A	2.3
7	☐	11000.000	10843.248	17956520.54	1.1653	A	2.6
8	☐			24155.10	0.0016	P	48.7

$$y = 1.0747\text{E-}004 * x + 1.3362\text{E-}006$$

$$R = 0.9996$$

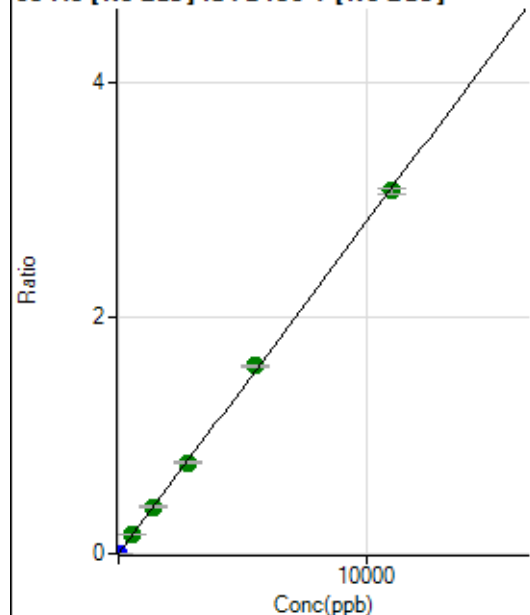
$$DL = 0.03347$$

$$BEC = 0.01243$$

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	91.67	0.0000	P	9.1
2	☐	5.000	5.012	20666.03	0.0014	P	1.8
3	☐	550.000	561.827	2344830.39	0.1584	A	1.1
4	☐	1375.000	1407.955	5873525.43	0.3969	A	2.4
5	☐	2750.000	2749.238	11549701.30	0.7749	A	1.3
6	☐	5500.000	5648.353	23554519.10	1.5921	A	0.9
7	☐	11000.000	10921.303	47439453.84	3.0784	A	1.7
8	☐			62607.90	0.0041	P	50.0

$$y = 2.8187\text{E-}004 * x + 6.2620\text{E-}006$$

$$R = 0.9999$$

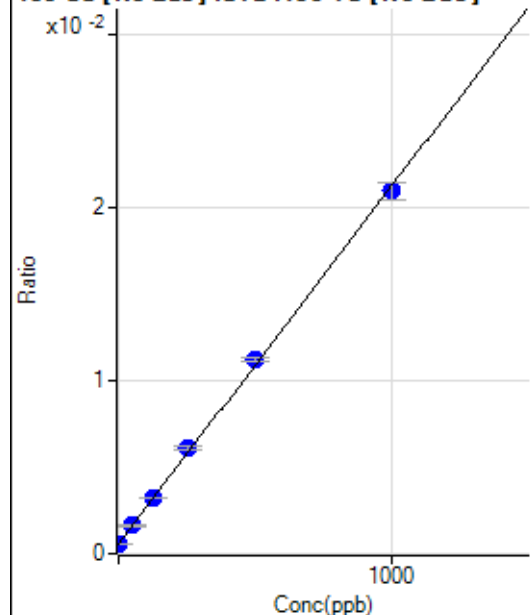
$$DL = 0.006034$$

$$BEC = 0.02222$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	3144.89	0.0006	P	6.8
2	☐	1.000	0.280	3139.34	0.0006	P	6.2
3	☐	50.000	52.153	9375.75	0.0016	P	4.4
4	☐	125.000	129.353	18387.77	0.0032	P	0.6
5	☐	250.000	268.747	35109.43	0.0061	P	2.3
6	☐	500.000	515.496	66554.36	0.0112	P	2.5
7	☐	1000.000	986.914	125577.70	0.0209	P	4.6
8	☐			3603.35	0.0006	P	3.1

$$y = 2.0639E-005 * x + 5.6929E-004$$

$$R = 0.9996$$

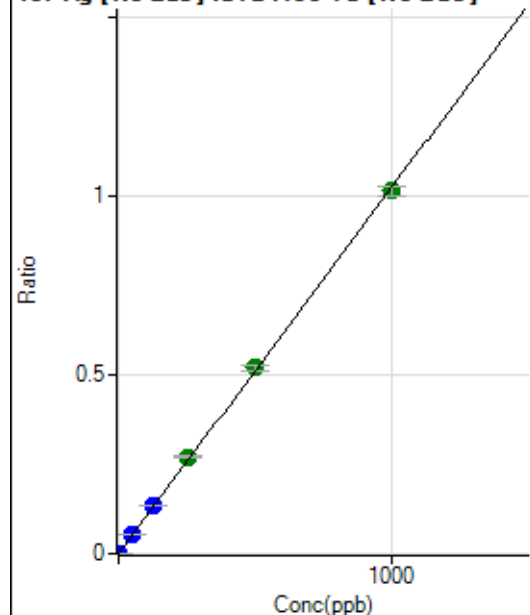
$$DL = 5.624$$

$$BEC = 27.58$$

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	66.67	0.0000	P	24.1
2	☐	1.000	0.979	5540.17	0.0010	P	1.4
3	☐	50.000	51.941	303359.54	0.0532	P	3.9
4	☐	125.000	131.941	767395.22	0.1352	P	1.9
5	☐	250.000	265.233	1560524.35	0.2718	A	1.9
6	☐	500.000	507.719	3089395.49	0.5203	A	3.5
7	☐	1000.000	991.367	6095356.26	1.0160	A	2.6
8	☐			2797.58	0.0005	P	6.6

$$y = 0.0010 * x + 1.2115E-005$$

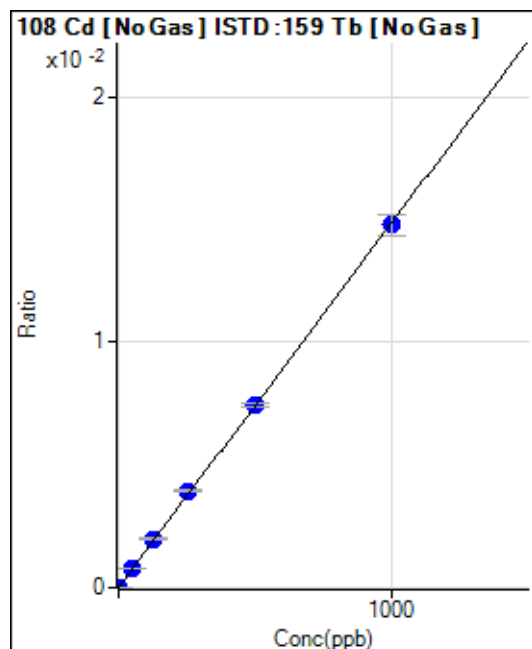
$$R = 0.9998$$

$$DL = 0.008535$$

$$BEC = 0.01182$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	25.00	0.0000	P	27.4
2	☐	1.000	1.136	116.67	0.0000	P	16.3
3	☐	50.000	52.151	4435.49	0.0008	P	4.5
4	☐	125.000	132.336	11167.19	0.0020	P	4.4
5	☐	250.000	264.819	22589.56	0.0039	P	2.2
6	☐	500.000	500.145	44105.55	0.0074	P	1.9
7	☐	1000.000	995.198	88587.05	0.0148	P	5.5
8	☐			194.45	0.0000	P	41.2

$$y = 1.4842\text{E-}005 * x + 4.5113\text{E-}006$$

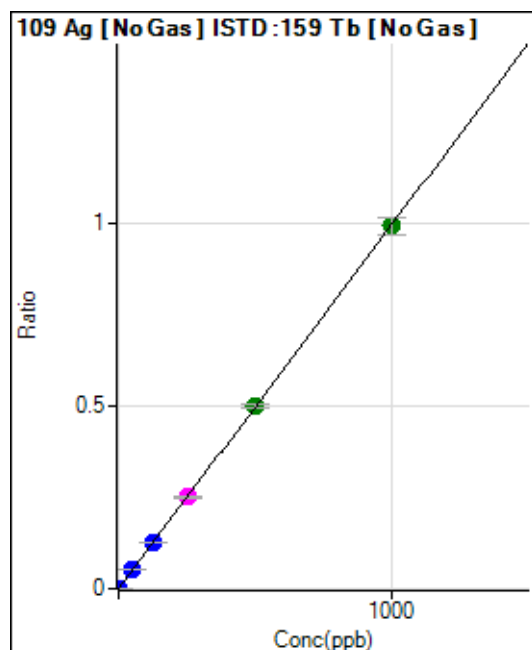
$$R = 0.9999$$

$$DL = 0.2496$$

$$BEC = 0.3039$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	36.11	0.0000	P	37.9
2	☐	1.000	1.001	5479.02	0.0010	P	1.6
3	☐	50.000	50.880	288971.09	0.0507	P	1.0
4	☐	125.000	127.144	718768.57	0.1267	P	2.0
5	☐	250.000	251.799	1440369.14	0.2508	M	0.7
6	☐	500.000	502.899	2974698.87	0.5010	A	1.9
7	☐	1000.000	997.789	5960366.80	0.9940	A	4.9
8	☐			2778.15	0.0005	P	4.4

$$y = 9.9616\text{E-}004 * x + 6.5854\text{E-}006$$

$$R = 1.0000$$

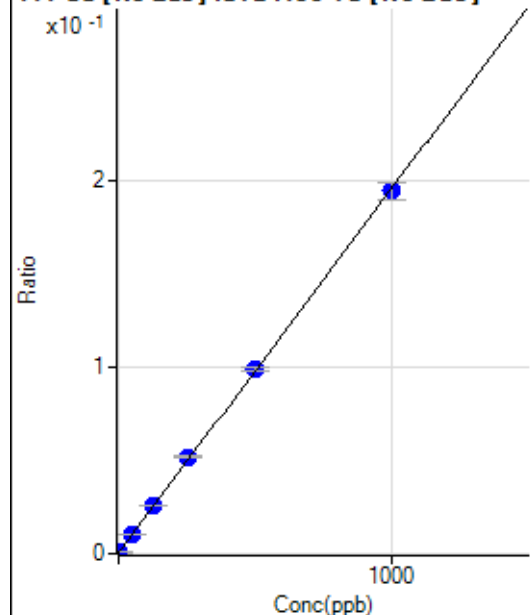
$$DL = 0.007509$$

$$BEC = 0.006611$$

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	2206.14	0.0004	P	6.9
2	☐	1.000	1.043	3290.94	0.0006	P	4.5
3	☐	50.000	51.803	59853.18	0.0105	P	2.4
4	☐	125.000	131.223	147494.17	0.0260	P	1.7
5	☐	250.000	263.235	296992.48	0.0517	P	2.5
6	☐	500.000	503.707	585667.68	0.0986	P	1.9
7	☐	1000.000	993.970	1164748.69	0.1942	P	5.0
8	☐			3861.36	0.0006	P	19.7

$$y = 1.9502\text{E-}004 * x + 3.9937\text{E-}004$$

$$R = 0.9999$$

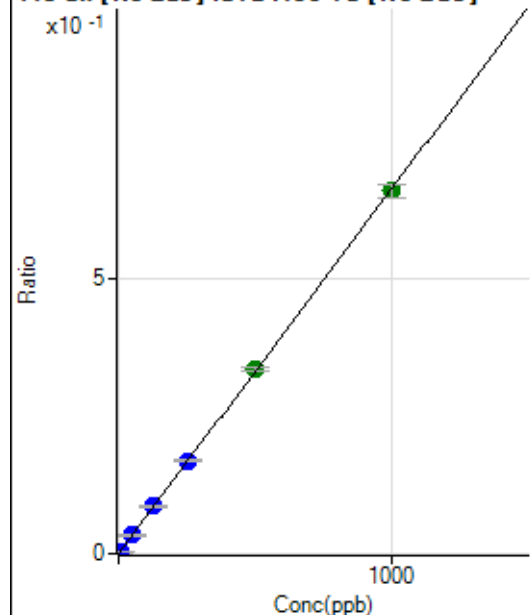
$$DL = 0.4232$$

$$BEC = 2.048$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	502.81	0.0001	P	15.5
2	☐	5.000	5.177	19266.84	0.0035	P	3.0
3	☐	50.000	50.599	192068.87	0.0337	P	3.9
4	☐	125.000	129.223	487685.52	0.0859	P	1.3
5	☐	250.000	255.050	973069.32	0.1695	P	2.6
6	☐	500.000	505.934	1996162.50	0.3362	A	1.3
7	☐	1000.000	995.212	3966036.46	0.6612	A	3.4
8	☐			7519.30	0.0012	P	28.0

$$y = 6.6426\text{E-}004 * x + 9.0990\text{E-}005$$

$$R = 1.0000$$

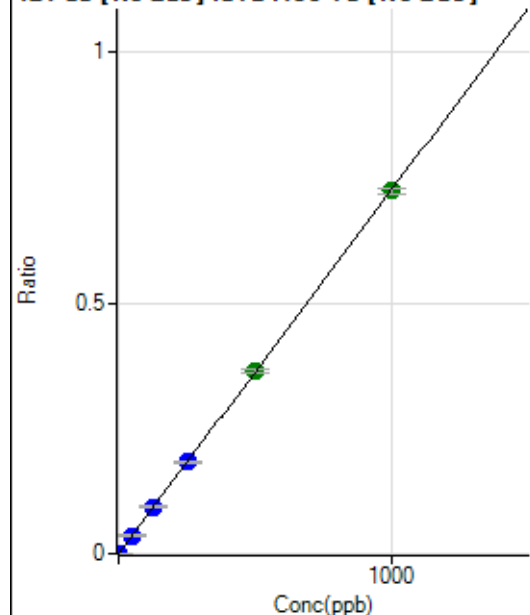
$$DL = 0.06382$$

$$BEC = 0.137$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	47.22	0.0000	P	50.6
2	☐	2.000	1.913	7610.69	0.0014	P	5.4
3	☐	50.000	50.151	207113.43	0.0363	P	3.3
4	☐	125.000	127.591	524638.41	0.0925	P	3.4
5	☐	250.000	251.917	1047896.18	0.1825	P	2.2
6	☐	500.000	503.095	2164508.90	0.3645	A	2.5
7	☐	1000.000	997.642	4337812.73	0.7229	A	1.6
8	☐			7739.14	0.0013	P	25.0

$$y = 7.2457\text{E-}004 * x + 8.4548\text{E-}006$$

$$R = 1.0000$$

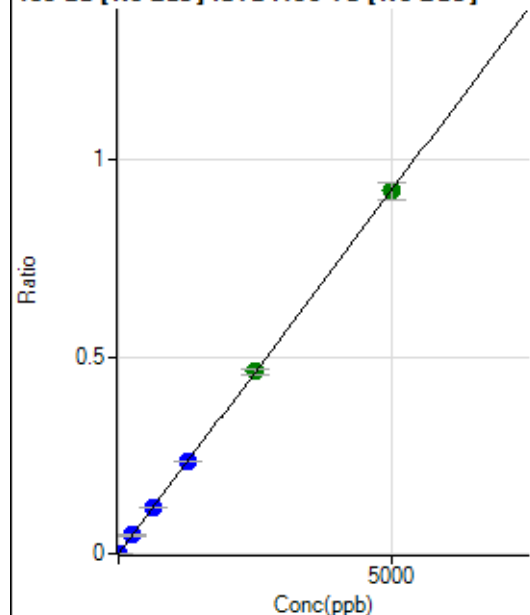
$$DL = 0.0177$$

$$BEC = 0.01167$$

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	25.00	0.0000	P	35.3
2	☐	10.000	9.926	10026.26	0.0018	P	4.6
3	☐	250.000	252.455	265688.93	0.0466	P	1.9
4	☐	625.000	629.353	659464.84	0.1162	P	1.2
5	☐	1250.000	1266.154	1342073.18	0.2338	P	1.2
6	☐	2500.000	2504.927	2745729.38	0.4625	A	3.7
7	☐	5000.000	4992.831	5528599.47	0.9218	A	4.5
8	☐			8960.41	0.0015	P	33.0

$$y = 1.8462\text{E-}004 * x + 4.5547\text{E-}006$$

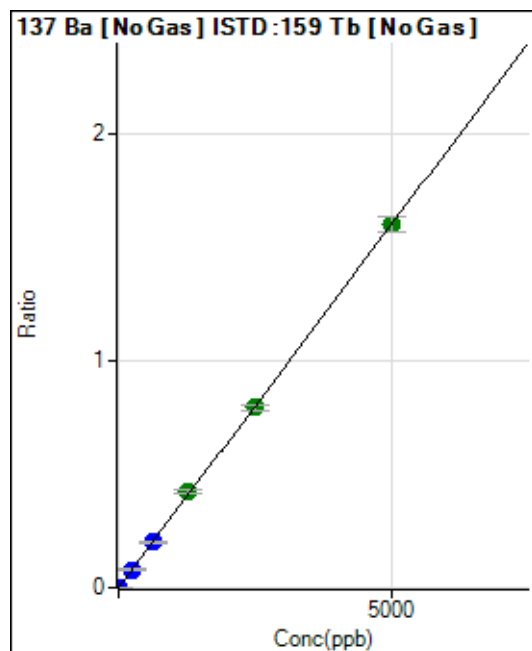
$$R = 1.0000$$

$$DL = 0.02612$$

$$BEC = 0.02467$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	27.78	0.0000	P	86.7
2	☐	10.000	9.789	17147.54	0.0031	P	1.9
3	☐	250.000	251.150	458694.37	0.0805	P	2.4
4	☐	625.000	627.422	1140471.79	0.2010	P	3.9
5	☐	1250.000	1318.279	2425034.99	0.4224	A	2.8
6	☐	2500.000	2478.045	4714500.97	0.7940	A	2.9
7	☐	5000.000	4993.548	9596963.06	1.6000	A	4.1
8	☐			14973.00	0.0025	P	40.4

$$y = 3.2042\text{E-}004 * x + 4.9713\text{E-}006$$

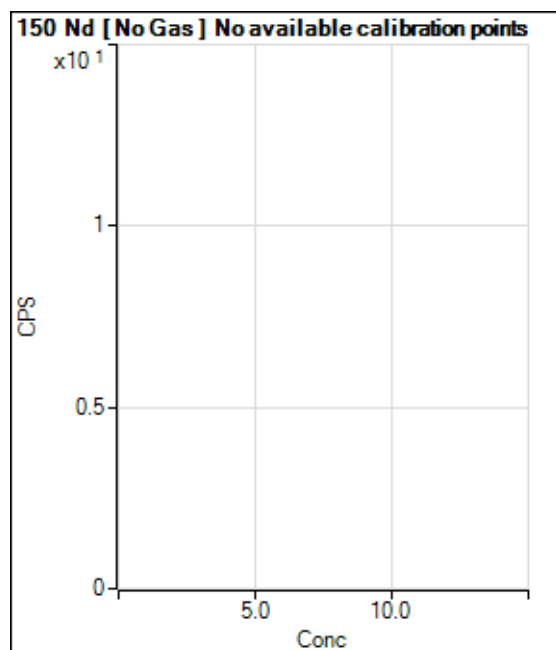
$$R = 0.9999$$

$$DL = 0.04035$$

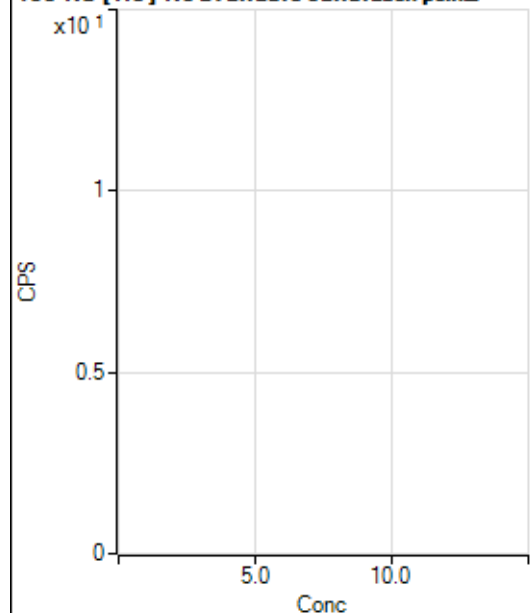
$$BEC = 0.01552$$

Weight: <None>

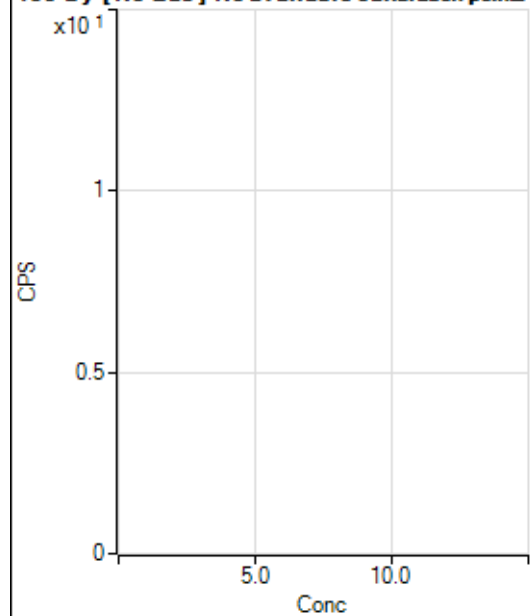
Min Conc: 0



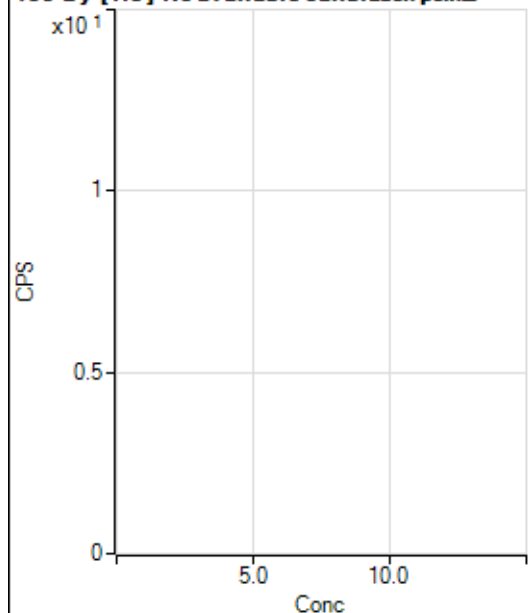
	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			8.89		P	43.3
2	☐			17.78		P	78.1
3	☐			31.11		P	65.5
4	☐			55.56		P	38.6
5	☐			53.33		P	33.1
6	☐			120.00		P	16.7
7	☐			211.12		P	19.0
8	☐			57.78		P	29.0

150 Nd [He] No available calibration points

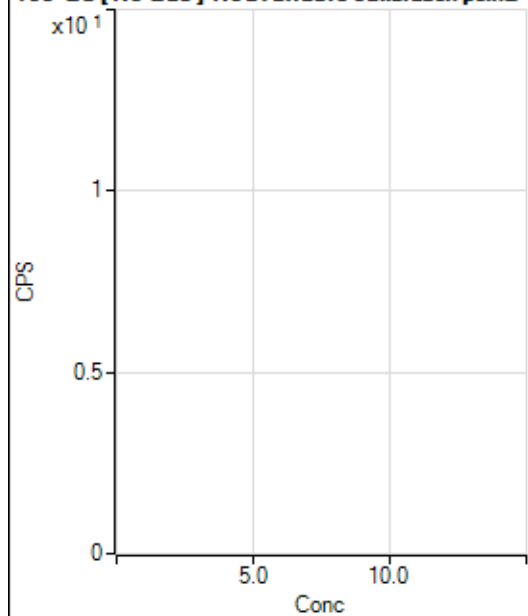
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			0.00		P	
2	☐			0.00		P	
3	☐			4.45		P	86.6
4	☐			1.11		P	173.
5	☐			7.78		P	65.5
6	☐			11.11		P	62.5
7	☐			16.67		P	52.9
8	☐			22.22		P	60.6

156 Dy [No Gas] No available calibration points

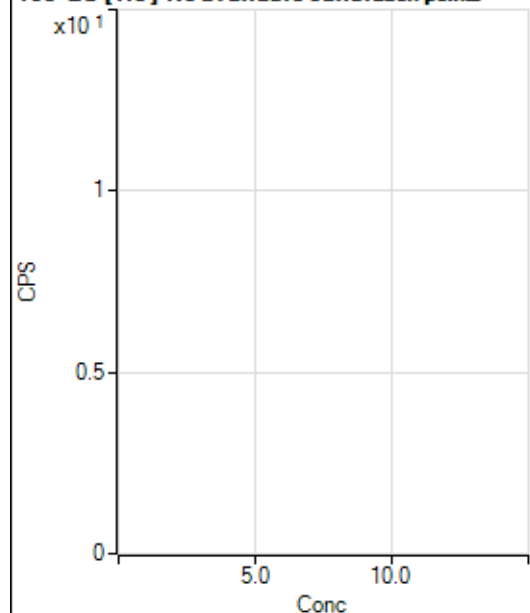
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			8.33		P	0.0
2	☐			8.33		P	100.
3	☐			25.00		P	33.3
4	☐			30.55		P	83.3
5	☐			80.56		P	39.2
6	☐			122.23		P	7.9
7	☐			216.67		P	3.8
8	☐			825.05		P	5.1

156 Dy [He] No available calibration points

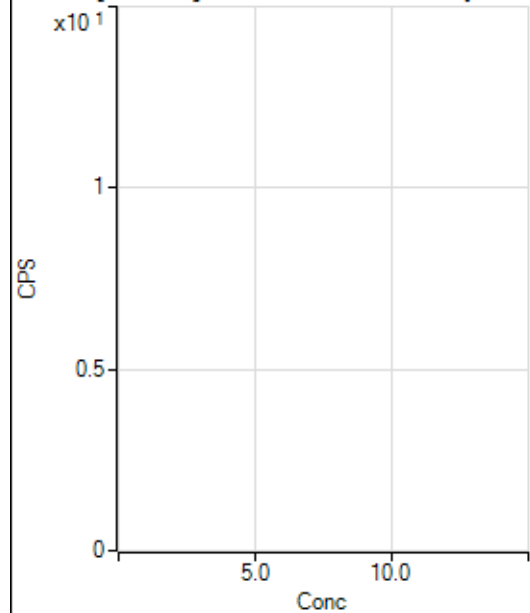
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1.11		P	173.
2	☐			3.33		P	0.0
3	☐			10.00		P	33.3
4	☐			11.11		P	62.5
5	☐			24.44		P	20.8
6	☐			68.89		P	7.4
7	☐			115.56		P	8.8
8	☐			381.12		P	8.1

160 Gd [No Gas] Noavailable calibration poin_

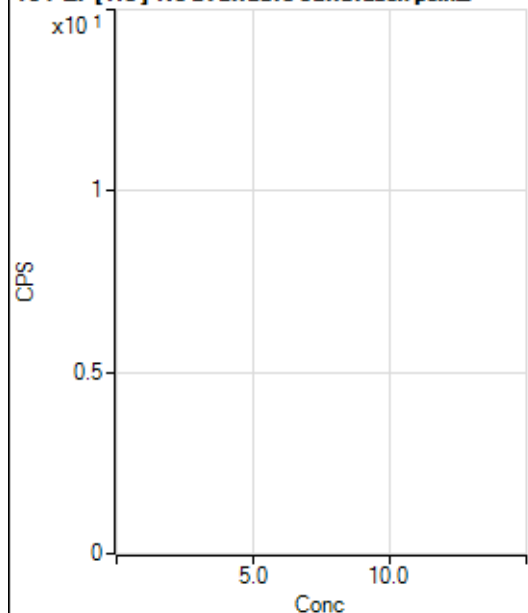
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			36.11		P	35.3
2	☐			38.89		P	12.4
3	☐			52.78		P	50.8
4	☐			38.89		P	53.9
5	☐			63.89		P	7.5
6	☐			150.01		P	16.7
7	☐			230.56		P	15.0
8	☐			822.27		P	7.6

160 Gd [He] No available calibration points

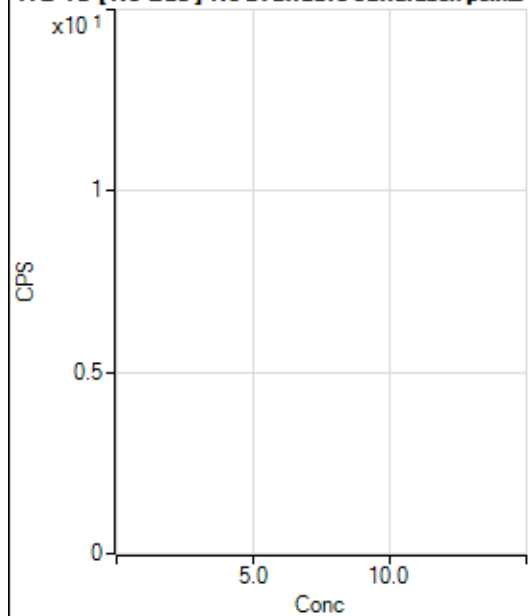
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			44.45		P	24.1
2	☐			36.67		P	39.6
3	☐			44.44		P	4.3
4	☐			68.89		P	29.6
5	☐			80.00		P	36.1
6	☐			114.45		P	26.3
7	☐			171.11		P	3.0
8	☐			460.02		P	2.6

164 Er [No Gas] No available calibration points

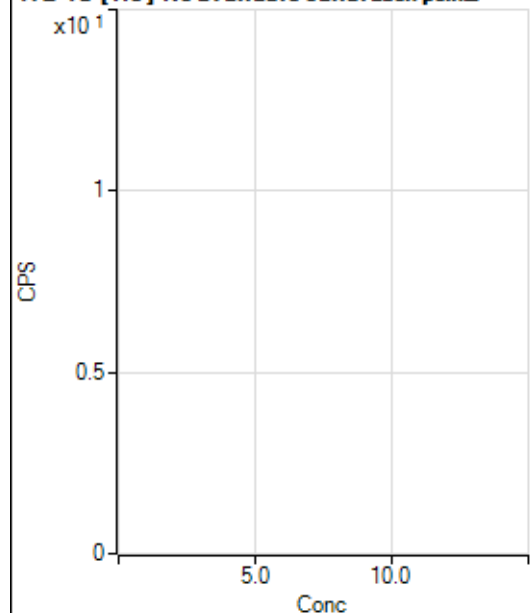
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			30.56		P	41.7
2	☐			44.44		P	60.3
3	☐			63.89		P	19.9
4	☐			55.56		P	43.3
5	☐			33.33		P	0.0
6	☐			61.11		P	39.4
7	☐			83.34		P	43.6
8	☐			166.67		P	13.2

164 Er [He] No available calibration points

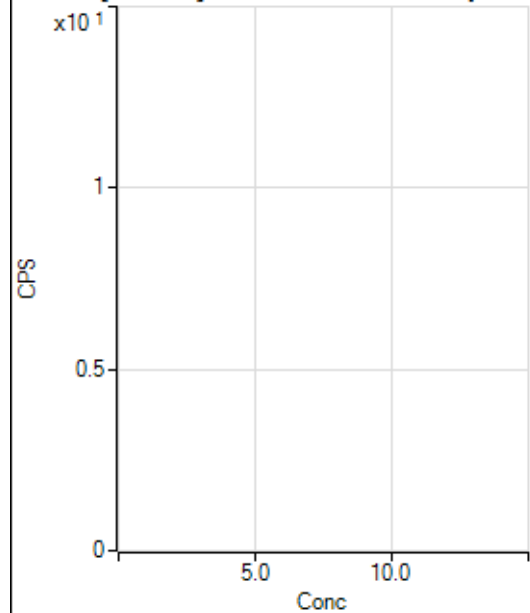
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			20.00		P	33.4
2	☐			24.44		P	39.4
3	☐			24.44		P	31.5
4	☐			18.89		P	51.0
5	☐			23.34		P	24.7
6	☐			31.11		P	16.4
7	☐			30.00		P	11.1
8	☐			64.44		P	7.9

172 Yb [No Gas] No available calibration points

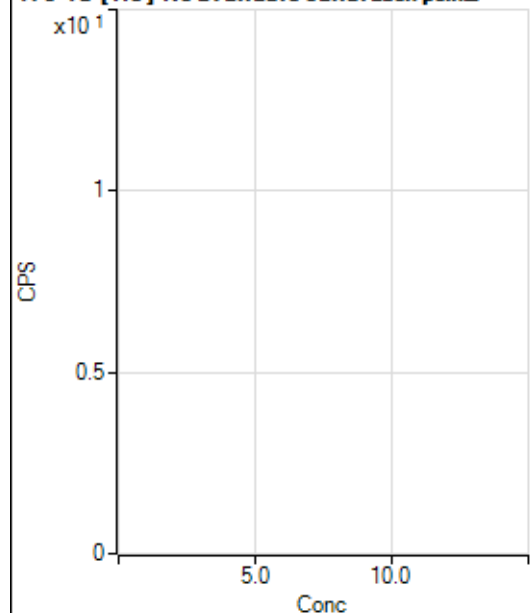
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			13.89		P	91.6
2	☐			25.00		P	66.7
3	☐			27.78		P	91.7
4	☐			22.22		P	86.6
5	☐			30.56		P	110.
6	☐			44.45		P	39.0
7	☐			36.11		P	35.3
8	☐			72.23		P	17.6

172 Yb [He] No available calibration points

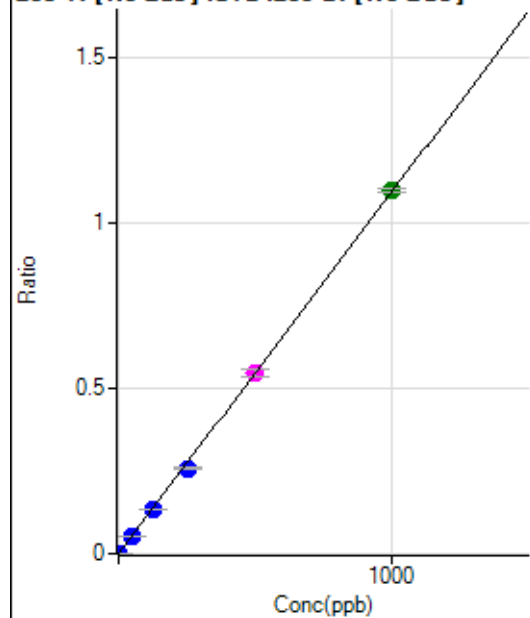
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			20.37		P	41.7
2	☐			11.11		P	132.
3	☐			9.26		P	34.6
4	☐			16.67		P	57.7
5	☐			11.11		P	100.
6	☐			16.67		P	NaN
7	☐			9.26		P	91.7
8	☐			24.07		P	48.0

176 Yb [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			647.26		P	19.7
2	☐			572.25		P	9.9
3	☐			1325.11		P	10.7
4	☐			2341.94		P	2.3
5	☐			4186.89		P	4.6
6	☐			7635.76		P	4.0
7	☐			14903.30		P	2.5
8	☐			702.82		P	14.6

176 Yb [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			3954.36		P	6.3
2	☐			4098.86		P	4.4
3	☐			4682.41		P	2.4
4	☐			5102.92		P	4.0
5	☐			5905.15		P	6.3
6	☐			8009.98		P	1.6
7	☐			11905.56		P	0.3
8	☐			4341.56		P	6.9

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	522.25	0.0002	P	5.0
2	☐	1.000	0.891	3217.16	0.0012	P	10.0
3	☐	50.000	47.438	149889.88	0.0520	P	2.3
4	☐	125.000	122.595	377600.40	0.1342	P	1.5
5	☐	250.000	235.225	778886.14	0.2574	P	2.4
6	☐	500.000	500.312	1649013.32	0.5472	M	5.2
7	☐	1000.000	1003.967	3340703.05	1.0979	A	1.2
8	☐			4623.49	0.0016	P	32.4

$$y = 0.0011 * x + 1.8067E-004$$

$$R = 0.9999$$

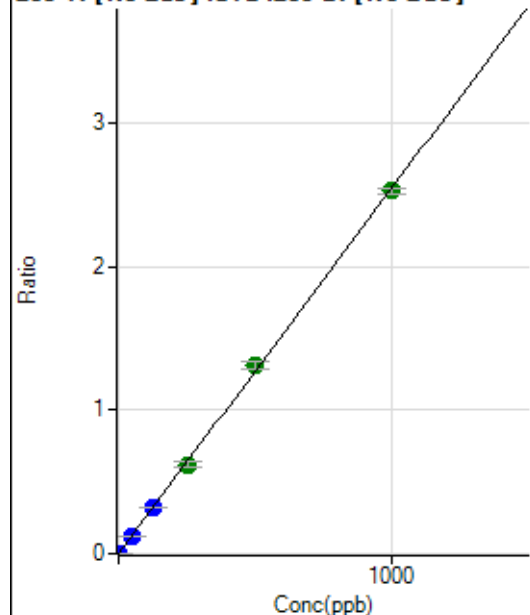
$$DL = 0.02482$$

$$BEC = 0.1652$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	1263.99	0.0004	P	1.3
2	☐	1.000	0.896	7569.10	0.0027	P	5.1
3	☐	50.000	49.426	363798.40	0.1263	P	1.4
4	☐	125.000	125.982	903885.57	0.3213	P	1.0
5	☐	250.000	244.729	1887010.37	0.6237	A	4.7
6	☐	500.000	515.238	3956864.15	1.3125	A	3.8
7	☐	1000.000	993.605	7701611.20	2.5307	A	1.3
8	☐			10926.19	0.0038	P	39.2

$$y = 0.0025 * x + 4.3788E-004$$

$$R = 0.9998$$

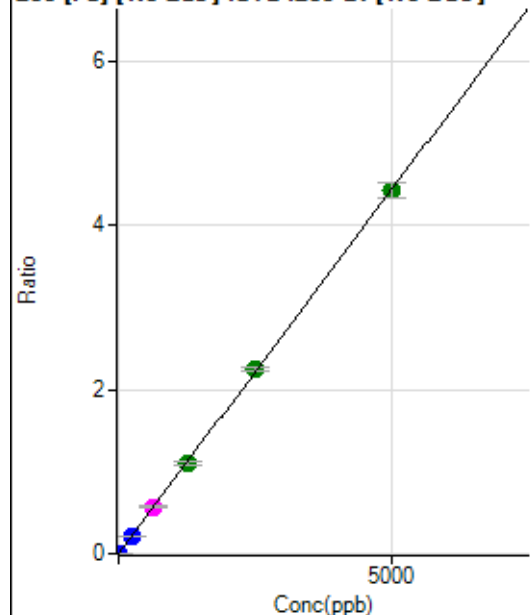
$$DL = 0.006687$$

$$BEC = 0.1719$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	766.70	0.0003	P	3.1
2	☐	1.000	0.990	3183.78	0.0011	P	4.5
3	☐	250.000	241.895	618465.58	0.2148	P	2.8
4	☐	625.000	640.855	1599458.38	0.5686	M	4.7
5	☐	1250.000	1246.053	3344970.19	1.1053	A	3.2
6	☐	2500.000	2528.419	6765511.55	2.2425	A	2.0
7	☐	5000.000	4985.201	13456207.01	4.4211	A	4.2
8	☐			21102.69	0.0073	P	34.0

$$y = 8.8680E-004 * x + 2.6551E-004$$

$$R = 1.0000$$

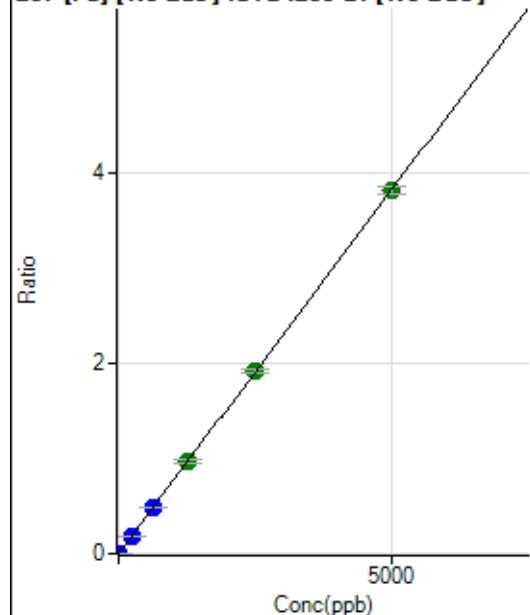
$$DL = 0.0275$$

$$BEC = 0.2994$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	533.36	0.0002	P	7.2
2	☐	1.000	1.041	2724.42	0.0010	P	3.7
3	☐	250.000	238.184	523470.11	0.1818	P	2.3
4	☐	625.000	629.873	1351367.49	0.4804	P	2.2
5	☐	1250.000	1264.603	2919396.60	0.9643	A	4.2
6	☐	2500.000	2515.906	5785032.59	1.9183	A	2.8
7	☐	5000.000	4988.378	11573398.75	3.8033	A	2.0
8	☐			18688.22	0.0065	P	33.1

$$y = 7.6239E-004 * x + 1.8511E-004$$

$$R = 1.0000$$

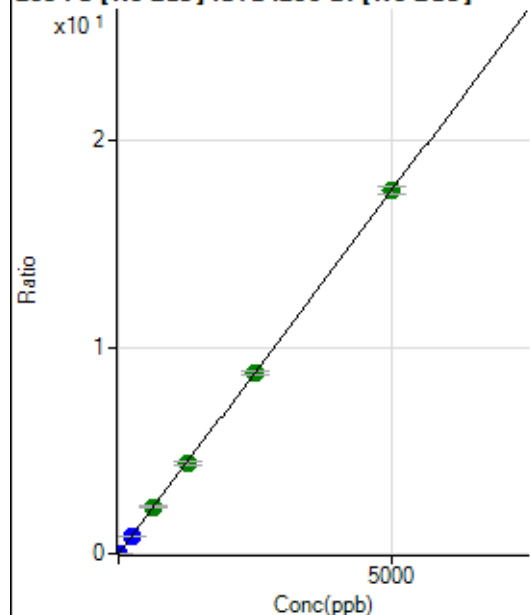
$$DL = 0.05266$$

$$BEC = 0.2428$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	2811.29	0.0010	P	3.6
2	☐	1.000	0.979	12296.94	0.0044	P	1.4
3	☐	250.000	238.508	2417921.70	0.8396	P	2.2
4	☐	625.000	643.450	6367401.01	2.2635	A	1.7
5	☐	1250.000	1252.361	13331497.61	4.4045	A	3.9
6	☐	2500.000	2499.134	26506618.88	8.7883	A	2.2
7	☐	5000.000	4998.111	53483114.27	17.5752	A	2.0
8	☐			84975.93	0.0295	P	35.8

$$y = 0.0035 * x + 9.7531E-004$$

$$R = 1.0000$$

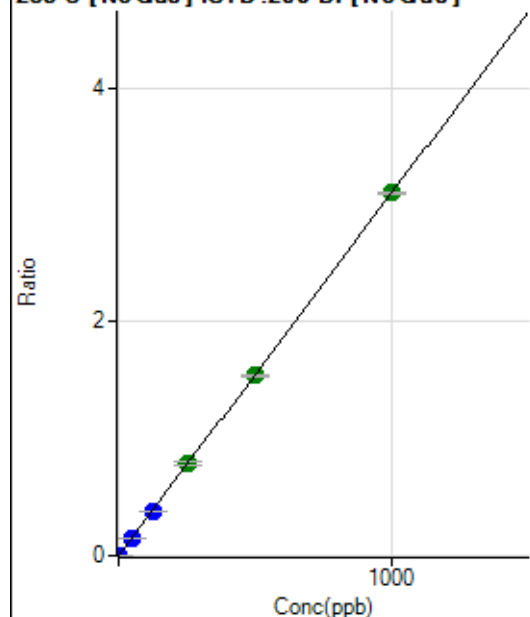
$$DL = 0.03021$$

$$BEC = 0.2774$$

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	22.22	0.0000	P	108.
2	☐	1.000	0.925	8011.16	0.0029	P	2.3
3	☐	50.000	47.358	422918.20	0.1468	P	1.8
4	☐	125.000	121.902	1063267.89	0.3779	P	2.3
5	☐	250.000	255.225	2396145.63	0.7913	A	3.1
6	☐	500.000	496.628	4645779.23	1.5397	A	1.2
7	☐	1000.000	1000.899	9443036.06	3.1031	A	0.3
8	☐			12290.17	0.0043	P	54.1

$$y = 0.0031 * x + 7.7175E-006$$

$$R = 1.0000$$

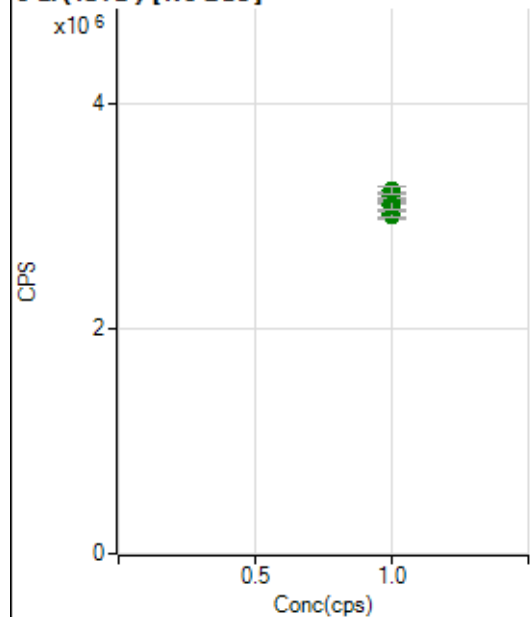
$$DL = 0.00809$$

$$BEC = 0.002489$$

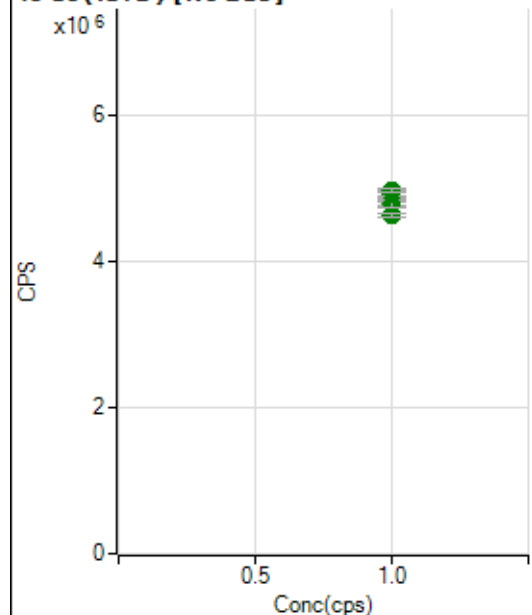
Weight: <None>

Min Conc: 0

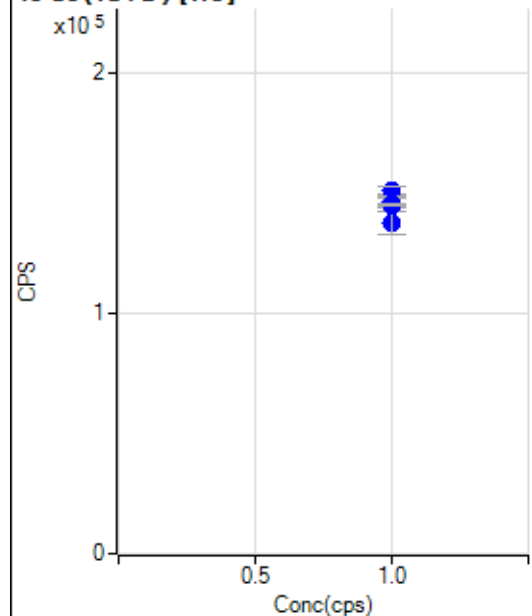
6 Li (ISTD) [No Gas]



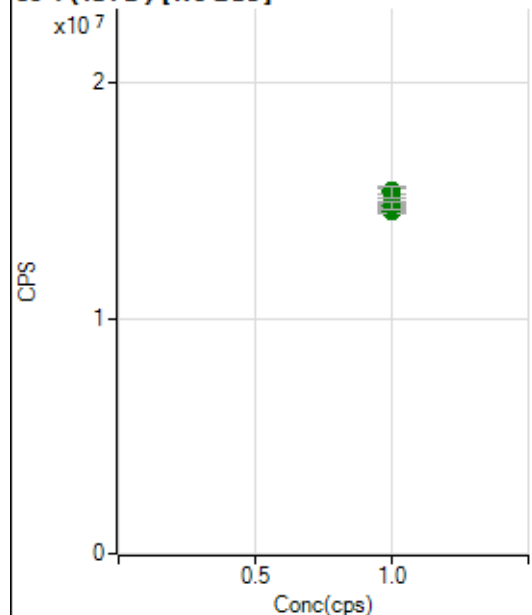
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3003819.42		A	2.3
2	☐	1.000		3122020.12		A	0.9
3	☐	1.000		3018965.37		A	1.8
4	☐	1.000		3088013.98		A	1.7
5	☐	1.000		3183191.40		A	2.1
6	☐	1.000		3117544.11		A	3.3
7	☐	1.000		3193520.50		A	1.6
8	☐	1.000		3226264.20		A	2.2

45 Sc (ISTD) [No Gas]

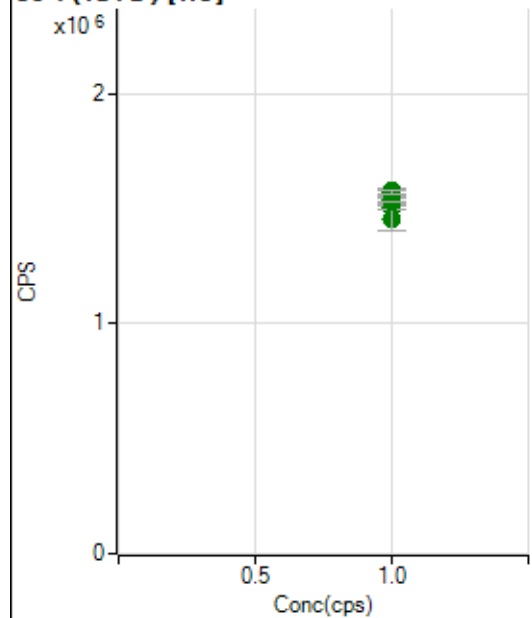
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4818715.03		A	3.7
2	☐	1.000		4634963.20		A	1.0
3	☐	1.000		4869006.07		A	1.1
4	☐	1.000		4814654.30		A	1.6
5	☐	1.000		4853488.40		A	1.1
6	☐	1.000		4801255.83		A	2.4
7	☐	1.000		4937027.64		A	1.8
8	☐	1.000		4968652.53		A	1.1

45 Sc (ISTD) [He]

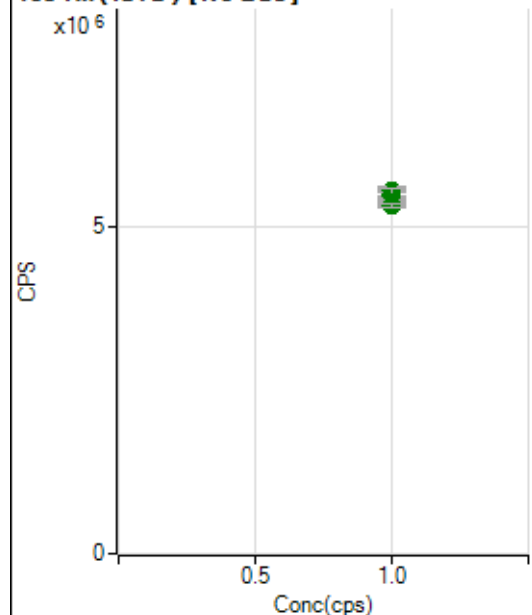
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		146503.50		P	2.9
2	☐	1.000		148292.25		P	1.0
3	☐	1.000		150727.23		P	2.6
4	☐	1.000		148377.87		P	0.3
5	☐	1.000		137554.79		P	6.9
6	☐	1.000		144425.92		P	0.6
7	☐	1.000		144985.62		P	0.8
8	☐	1.000		145150.80		P	0.4

89 Y (ISTD) [No Gas]

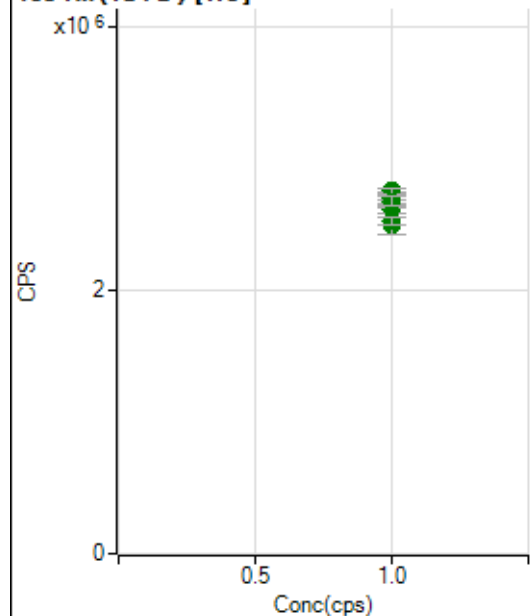
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		14640750.06		A	1.5
2	☐	1.000		14564660.61		A	1.9
3	☐	1.000		14805548.95		A	0.4
4	☐	1.000		14796865.19		A	1.2
5	☐	1.000		14903595.20		A	0.7
6	☐	1.000		14792172.00		A	2.4
7	☐	1.000		15413271.57		A	1.8
8	☐	1.000		15346041.99		A	3.3

89 Y (ISTD) [He]

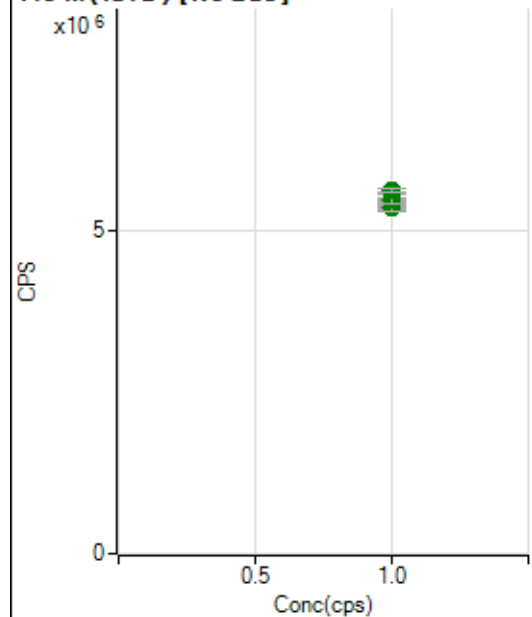
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1508479.39		A	1.6
2	☐	1.000		1569509.32		A	1.3
3	☐	1.000		1578298.95		A	1.7
4	☐	1.000		1574817.48		A	1.0
5	☐	1.000		1458638.74		A	7.7
6	☐	1.000		1534568.09		A	1.3
7	☐	1.000		1542889.60		A	1.2
8	☐	1.000		1574371.89		A	1.4

103 Rh (ISTD) [No Gas]

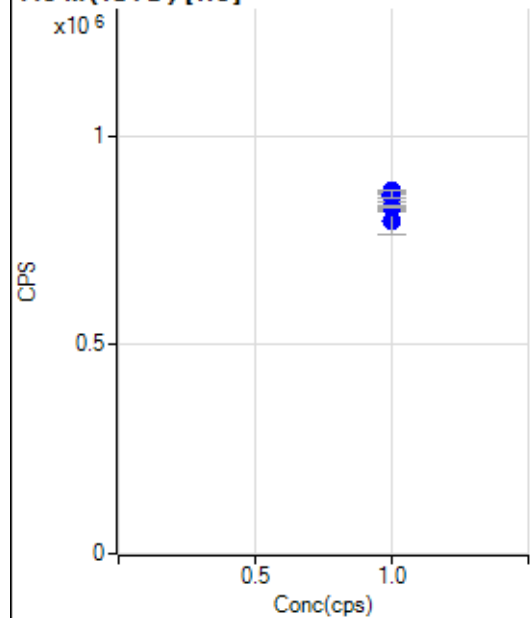
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5426807.59		A	4.5
2	☐	1.000		5448527.42		A	0.3
3	☐	1.000		5541112.23		A	2.6
4	☐	1.000		5482987.10		A	0.9
5	☐	1.000		5379077.42		A	1.8
6	☐	1.000		5450866.53		A	4.6
7	☐	1.000		5381097.13		A	0.6
8	☐	1.000		5310728.59		A	0.9

103 Rh (ISTD) [He]

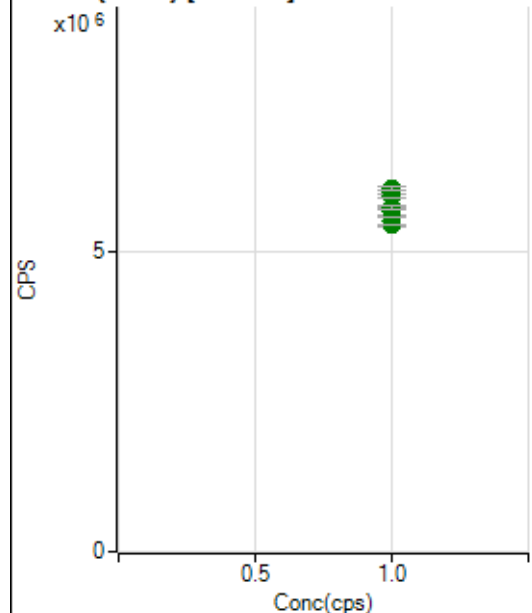
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2615090.71		A	2.4
2	☐	1.000		2710309.37		A	1.9
3	☐	1.000		2703646.59		A	3.3
4	☐	1.000		2752277.01		A	1.3
5	☐	1.000		2501555.33		A	6.9
6	☐	1.000		2633005.29		A	0.6
7	☐	1.000		2676768.14		A	2.2
8	☐	1.000		2518606.98		A	2.2

115 In (ISTD) [No Gas]

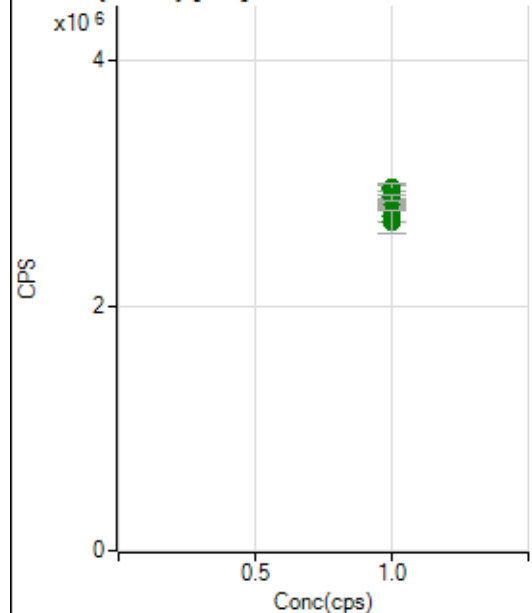
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5358289.07		A	1.7
2	☐	1.000		5341099.69		A	0.4
3	☐	1.000		5352124.17		A	1.5
4	☐	1.000		5454720.13		A	2.0
5	☐	1.000		5447045.31		A	1.1
6	☐	1.000		5361807.20		A	2.5
7	☐	1.000		5483677.33		A	2.3
8	☐	1.000		5608712.08		A	1.0

115 In (ISTD) [He]

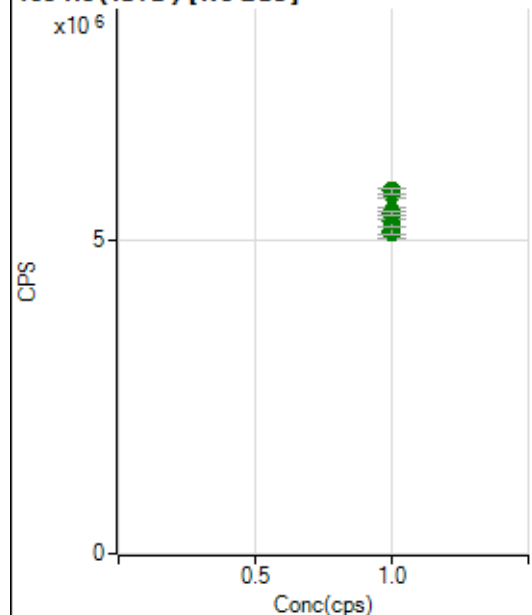
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		830667.70		P	2.3
2	☐	1.000		854912.11		P	1.1
3	☐	1.000		868097.01		P	0.8
4	☐	1.000		859536.46		P	1.8
5	☐	1.000		794307.75		P	7.5
6	☐	1.000		826724.16		P	0.7
7	☐	1.000		825989.40		P	1.3
8	☐	1.000		830461.71		P	0.4

159 Tb (ISTD) [No Gas]

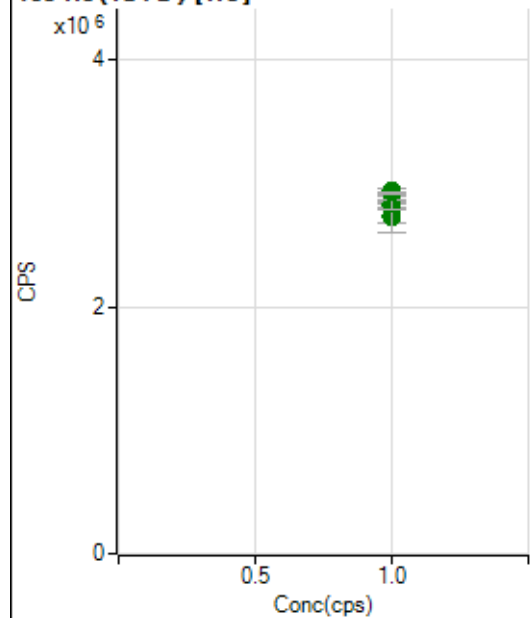
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5523941.24		A	3.4
2	☐	1.000		5458235.13		A	0.4
3	☐	1.000		5701379.43		A	2.5
4	☐	1.000		5676574.22		A	2.6
5	☐	1.000		5741851.03		A	1.5
6	☐	1.000		5938286.09		A	0.7
7	☐	1.000		6002837.69		A	3.3
8	☐	1.000		6057978.59		A	1.2

159 Tb (ISTD) [He]

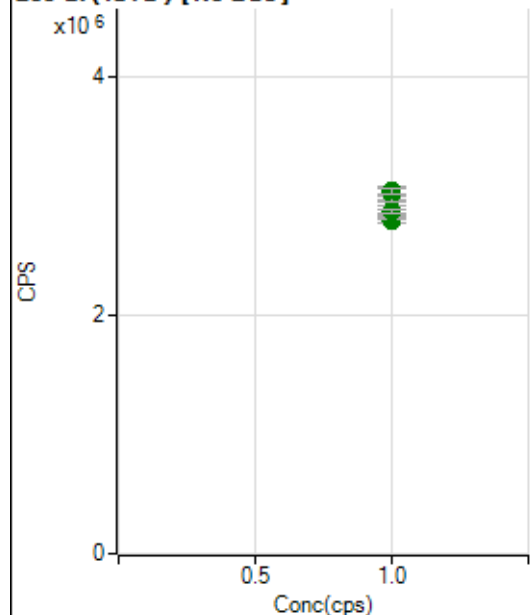
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2729534.85		A	3.4
2	☐	1.000		2814244.71		A	1.0
3	☐	1.000		2842511.73		A	2.3
4	☐	1.000		2963483.50		A	1.5
5	☐	1.000		2679626.72		A	7.1
6	☐	1.000		2857980.41		A	1.3
7	☐	1.000		2951826.73		A	2.8
8	☐	1.000		2883564.96		A	1.7

165 Ho (ISTD) [No Gas]

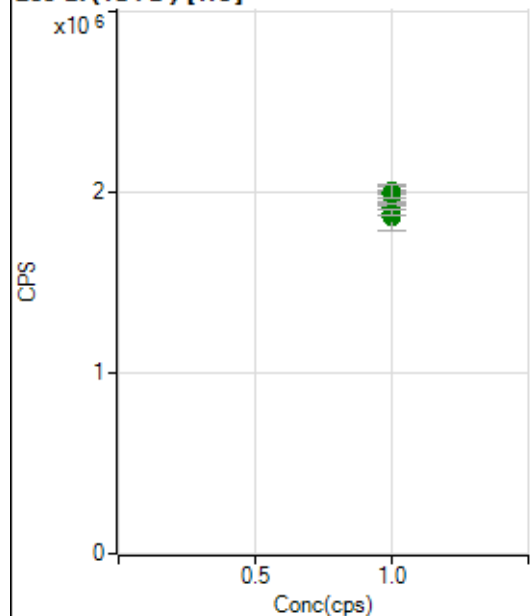
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5127810.23		A	4.0
2	☐	1.000		5161332.93		A	2.4
3	☐	1.000		5311112.14		A	3.6
4	☐	1.000		5400345.35		A	2.2
5	☐	1.000		5449387.40		A	2.3
6	☐	1.000		5435140.23		A	1.5
7	☐	1.000		5747173.09		A	2.6
8	☐	1.000		5788660.55		A	1.8

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2736217.88		A	4.4
2	☐	1.000		2826827.25		A	2.1
3	☐	1.000		2841499.89		A	1.0
4	☐	1.000		2907825.27		A	1.2
5	☐	1.000		2730319.23		A	9.1
6	☐	1.000		2828175.65		A	2.6
7	☐	1.000		2938734.44		A	1.0
8	☐	1.000		2921174.05		A	0.8

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2886380.65		A	5.7
2	☐	1.000		2784709.58		A	1.3
3	☐	1.000		2880993.29		A	2.7
4	☐	1.000		2813361.97		A	1.0
5	☐	1.000		3027297.31		A	2.0
6	☐	1.000		3017883.29		A	4.2
7	☐	1.000		3043134.89		A	1.2
8	☐	1.000		2873221.18		A	1.2

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1918202.52		A	1.6
2	☐	1.000		1998701.41		A	0.6
3	☐	1.000		1942290.23		A	1.2
4	☐	1.000		2010391.06		A	2.3
5	☐	1.000		1864375.30		A	8.3
6	☐	1.000		1994375.09		A	2.4
7	☐	1.000		2005526.95		A	3.5
8	☐	1.000		1889070.68		A	1.6

US EPA Tune Check Report

Operator Name Jaswal
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\P8030722 MS.b
Acq. Date-Time 2022-03-07 15:07:15
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		6865	68648.75			0.997	5.000
24		68508	685085.00			2.399	5.000
25		8837	88370.05			1.281	5.000
26		10101	101006.55			1.112	5.000
59		15337	153366.79			1.262	5.000
113		5483	54833.10			0.979	5.000
115		17678	176779.56			0.907	5.000
206		5507	55065.77			1.347	5.000
207		4537	45370.02			1.880	5.000
208		11171	111708.83			1.938	5.000
220		1	11.30			11.538	

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

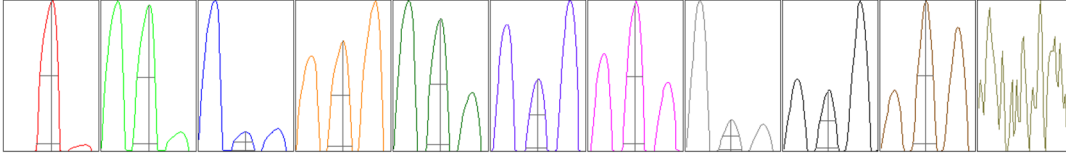
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	6757	6849	6895	6883	6940
24	65980	68136	68489	70018	69919
25	8650	8851	8839	8947	8899
26	9955	10031	10101	10180	10236
59	15031	15309	15420	15368	15556
113	5402	5485	5501	5478	5551
115	17813	17815	17753	17494	17515
206	5426	5427	5548	5581	5551
207	4424	4477	4558	4634	4591
208	10845	11067	11253	11384	11305

US EPA Tune Check Report

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

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	12901.31	9.05	8.90 - 9.10	
24	127434.53	24.05	23.90 - 24.10	
25	16249.09	25.00	24.90 - 25.10	
26	18685.71	26.00	25.90 - 26.10	
59	29757.88	59.00	58.90 - 59.10	
113	11455.67	113.00	112.90 - 113.10	
115	36513.34	115.00	114.90 - 115.10	
206	11243.10	205.95	205.90 - 206.10	
207	9485.16	206.95	206.90 - 207.10	
208	23632.57	207.95	207.90 - 208.10	
220			-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.57	0.729	0.900	
24	0.56	0.773	0.900	
25	0.58	0.735	0.900	
26	0.58	0.778	0.900	
59	0.54	0.730	0.900	
113	0.50	0.678	0.900	
115	0.50	0.682	0.900	
206	0.51	0.735	0.900	
207	0.49	0.712	0.900	
208	0.50	0.750	0.900	
220				

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode --- Nebulizer Gas 0.73 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	1.40 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	8.6 V	Deflect	15.2 V
Extract 2	-185.0 V	Cell Entrance	-30 V	Plate Bias	-50 V
Omega Bias	-80 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	160 V		

QP Parameters

Mass Gain	123	Axis Gain	0.9991	QP Bias	-4.0 V
Mass Offset	125	Axis Offset	-0.02		

Hardware Settings

Torch

Torch H	1.0 mm	Torch V	-0.9 mm
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EM

Discriminator	4.2 mV	Analog HV	2283 V	Pulse HV	1645 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		3338	33383.64			1.780	
89		10235	102353.07			1.713	
205		18257	182566.80			2.286	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	3432	3363	3300	3298	3299
89	10482	10357	10083	10105	10150
205	18783	18634	17999	17960	17907

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.75 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	8.6 V	Deflect	5.0 V
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US EPA Tune Check Report

Extract 2	-185.0 V	Cell Entrance	-50 V	Plate Bias	-60 V
Omega Bias	-80 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	123	Axis Gain	0.9991	QP Bias	-13.0 V
Mass Offset	125	Axis Offset	-0.02		
Hardware Settings					
Torch					
Torch H	1.0 mm	Torch V	-0.9 mm		
EM					
Discriminator	4.2 mV	Analog HV	2283 V	Pulse HV	1645 V