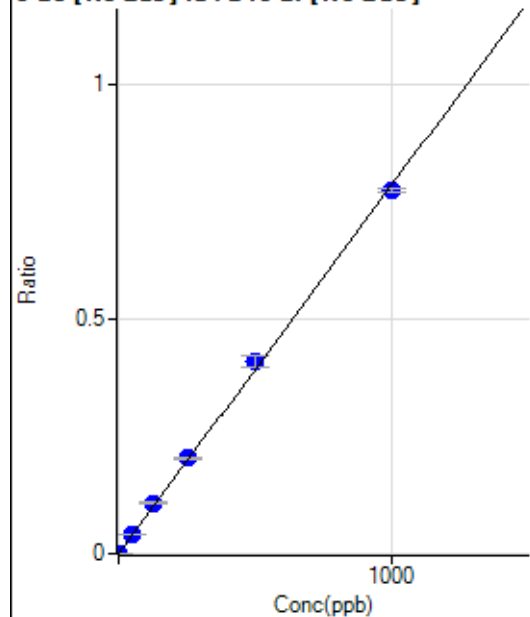


Calibration for 005CALS.d

Batch Folder: D:\Agilent\ICPMH\1\DATA\P7070124-MS.b\
 Analysis File: P7070124-MS.batch.bin
 DA Date-Time: 2024-07-03 17:56:15
 Calibration Title:
 Calibration Method: External Calibration
 VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.d	S00	2024-07-03 12:29:26
2	005CALS.d	S02	2024-07-03 12:32:47
3	006CALS.d	S03	2024-07-03 12:36:09
4	007CALS.d	S04	2024-07-03 12:39:26
5	008CALS.d	S05	2024-07-03 12:42:38
6	009CALS.d	S06	2024-07-03 12:45:39
7	010CALS.d	S07	2024-07-03 12:48:37
8	011CALS.d	S08	2024-07-03 12:51:30

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	34.44	0.0000	P	29.2
2	☐	1.000	1.120	646.69	0.0009	P	10.8
3	☐	50.000	53.018	28880.14	0.0416	P	1.5
4	☐	125.000	136.626	68790.01	0.1072	P	4.6
5	☐	250.000	259.130	131549.31	0.2033	P	2.7
6	☐	500.000	522.256	260316.74	0.4098	P	5.7
7	☐	1000.000	984.985	497761.79	0.7728	P	1.2
8	☐			772.25	0.0012	P	11.5

$$y = 7.8453E-004 * x + 4.9212E-005$$

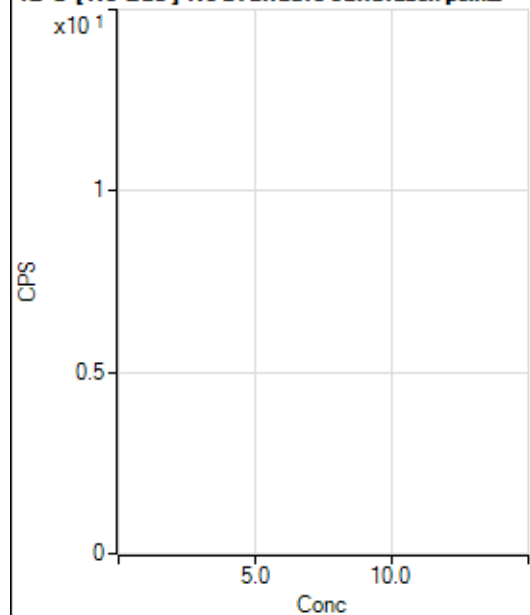
$$R = 0.9995$$

$$DL = 0.05495$$

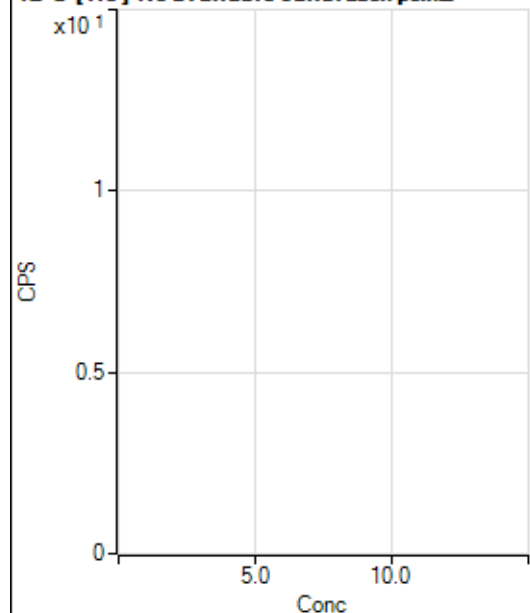
$$BEC = 0.06273$$

Weight: <None>

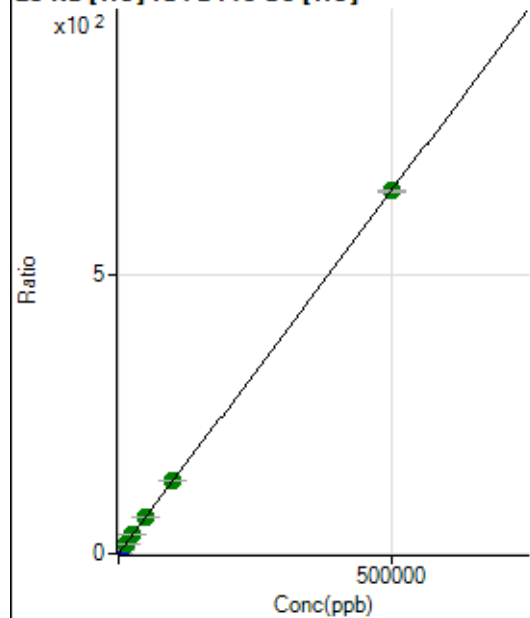
Min Conc: 0

12 C [No Gas] No available calibration points

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

12 C [He] No available calibration points

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

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	8220.05	0.0671	P	4.4
2	☐	500.000	533.758	94599.05	0.7636	P	1.4
3	☐	5000.000	5357.865	853134.86	7.0584	P	0.4
4	☐	12500.000	12768.110	1915805.96	16.7279	A	0.1
5	☐	25000.000	25707.501	3722015.02	33.6122	A	0.7
6	☐	50000.000	50971.748	7291771.35	66.5789	A	1.0
7	☐	100000.00	100406.58	14285712.01	131.0853	A	1.1
8	☐	500000.00	499775.81	72958957.25	652.2129	A	0.7

$$y = 0.0013 * x + 0.0671$$

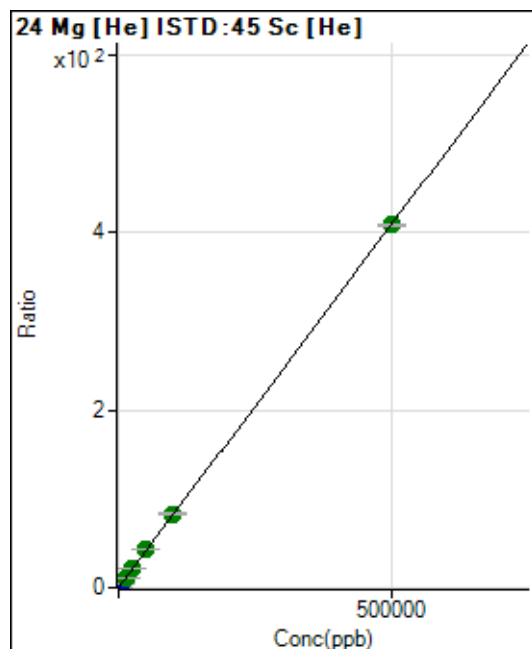
$$R = 1.0000$$

$$DL = 6.815$$

$$BEC = 51.42$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	881.14	0.0072	P	4.9
2	☐	500.000	540.105	55689.16	0.4495	P	1.3
3	☐	5000.000	5519.621	547224.69	4.5275	P	0.7
4	☐	12500.000	13294.734	1247711.52	10.8949	A	1.0
5	☐	25000.000	26525.987	2406285.85	21.7307	A	0.9
6	☐	50000.000	52297.487	4691602.85	42.8363	A	0.1
7	☐	100000.00	101501.79	9059793.68	83.1322	A	0.9
8	☐	500000.00	499368.48	45749044.87	408.9655	A	0.6

$$y = 8.1895\text{E-}004 * x + 0.0072$$

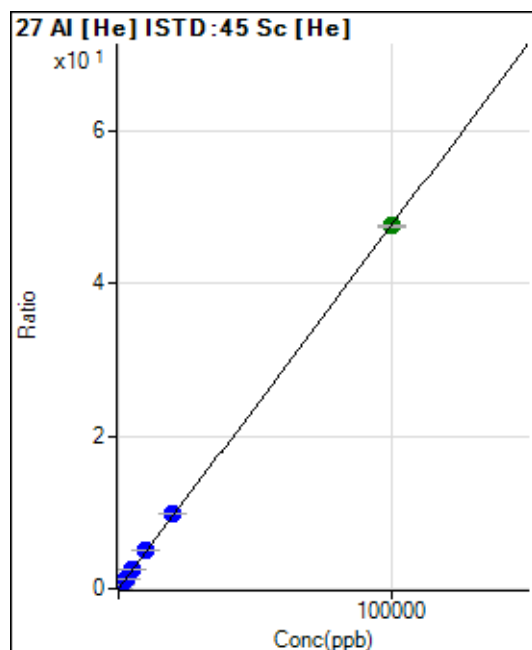
$$R = 1.0000$$

$$DL = 1.288$$

$$BEC = 8.782$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	56.67	0.0005	P	31.5
2	☐	20.000	21.411	1320.07	0.0107	P	2.7
3	☐	1000.000	1073.537	61817.05	0.5114	P	0.2
4	☐	2500.000	2628.925	143359.67	1.2518	P	0.5
5	☐	5000.000	5286.257	278674.56	2.5166	P	0.1
6	☐	10000.000	10491.592	546983.15	4.9942	P	0.4
7	☐	20000.000	20547.700	1065898.88	9.7807	P	0.8
8	☐	100000.00	99823.029	5315196.10	47.5141	A	0.5

$$y = 4.7598\text{E-}004 * x + 4.6297\text{E-}004$$

$$R = 1.0000$$

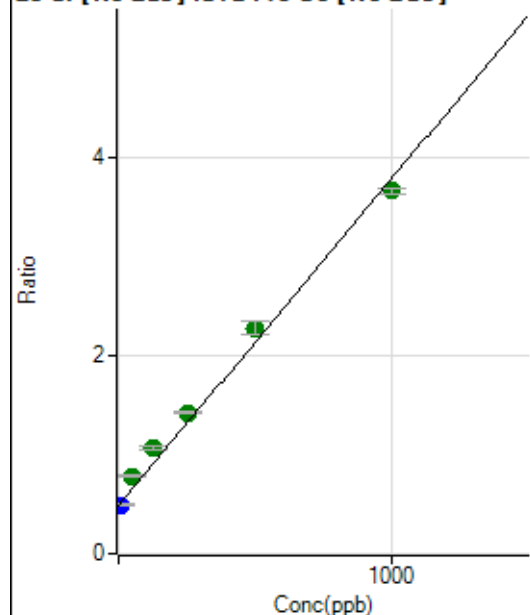
$$DL = 0.9204$$

$$BEC = 0.9727$$

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	823112.09	0.4886	P	0.6
2	☐	10.000	1.559	826667.31	0.4938	P	0.8
3	☐	50.000	89.043	1303689.68	0.7827	A	1.9
4	☐	125.000	175.483	1640415.18	1.0681	A	5.0
5	☐	250.000	283.841	2211760.97	1.4260	A	2.0
6	☐	500.000	541.448	3401002.03	2.2767	A	5.8
7	☐	1000.000	962.638	5595911.30	3.6677	A	1.3
8	☐			1267321.18	0.8383	A	3.4

$$y = 0.0033 * x + 0.4886$$

$$R = 0.9966$$

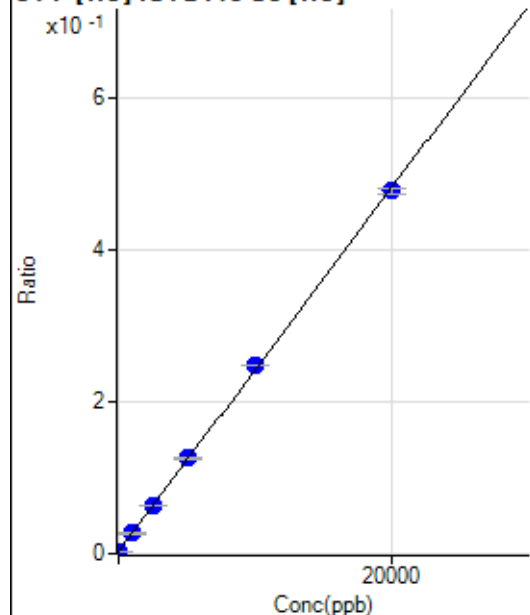
$$DL = 2.538$$

$$BEC = 148$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	-18.558	301.12	0.0025	P	5.0
2	☐	0.000	18.558	414.46	0.0033	P	3.8
3	☐	1000.000	1030.811	3329.29	0.0275	P	9.1
4	☐	2500.000	2543.733	7298.47	0.0637	P	1.8
5	☐	5000.000	5139.647	13929.74	0.1258	P	1.0
6	☐	10000.000	10241.949	27139.62	0.2478	P	0.7
7	☐	20000.000	19837.107	52005.76	0.4772	P	1.9
8	☐			361.12	0.0032	P	10.4

$$y = 2.3911E-005 * x + 0.0029$$

$$R = 0.9999$$

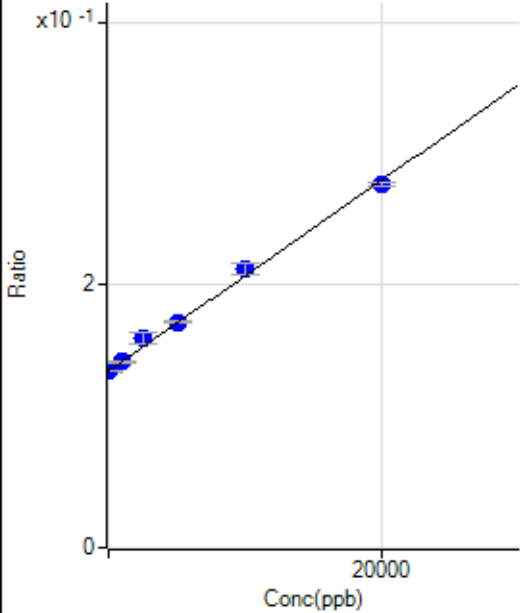
$$DL = 15.55$$

$$BEC = 121.3$$

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	-35.830	226261.47	0.1343	P	0.6
2	☐	0.000	35.830	225747.37	0.1348	P	0.4
3	☐	1000.000	991.036	236151.06	0.1418	P	0.6
4	☐	2500.000	3469.631	245413.48	0.1598	P	5.0
5	☐	5000.000	5138.001	266681.29	0.1719	P	0.6
6	☐	10000.000	10690.021	317300.49	0.2123	P	3.9
7	☐	20000.000	19499.734	421583.35	0.2763	P	0.9
8	☐			215545.01	0.1426	P	0.8

$y = 7.2696E-006 * x + 0.1346$

$R = 0.9979$

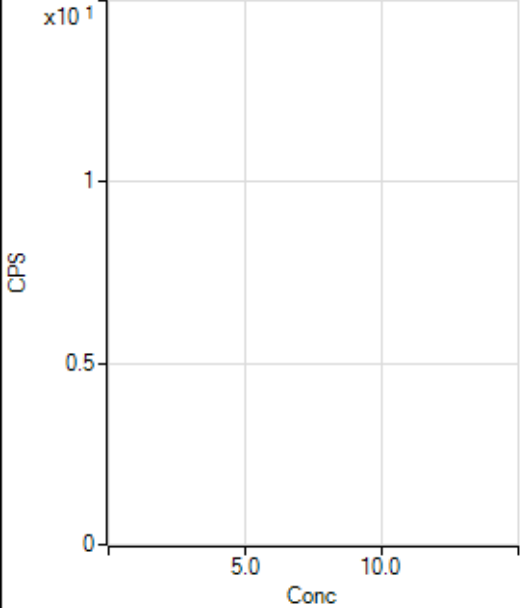
$DL = 264.2$

$BEC = 1.851E+04$

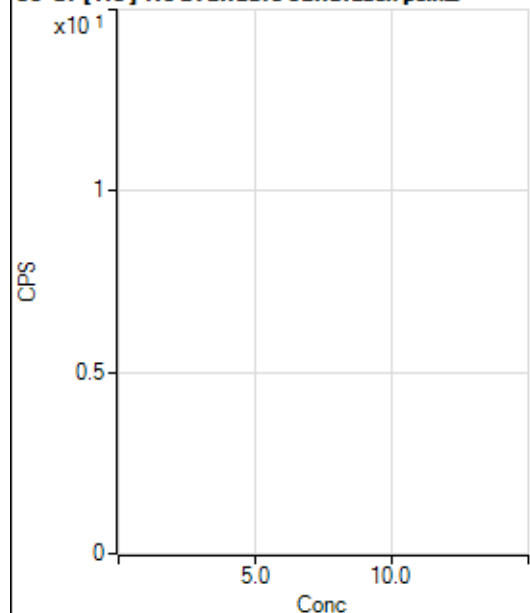
Weight: <None>

Min Conc: 0

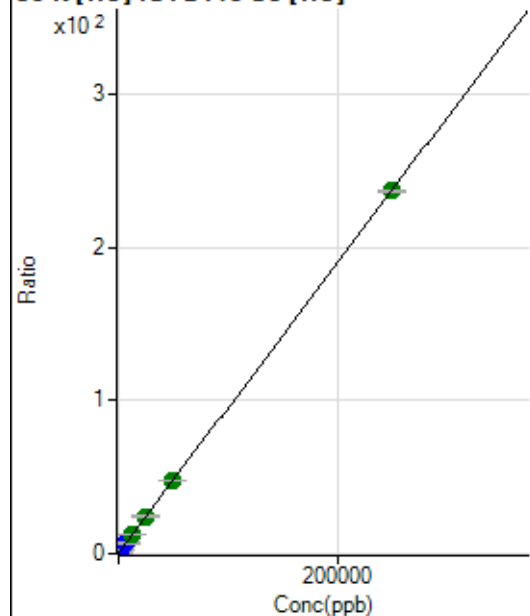
35 Cl [No Gas] No available calibration points



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

35 Cl [He] No available calibration points

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

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	58592.14	0.4782	P	0.7
2	☐	500.000	535.205	122012.76	0.9849	P	1.3
3	☐	2500.000	2714.997	368476.02	3.0486	P	0.1
4	☐	6250.000	6803.125	792384.29	6.9190	P	0.8
5	☐	12500.000	12868.221	1402016.14	12.6611	A	2.0
6	☐	25000.000	25321.482	2678020.73	24.4512	A	0.6
7	☐	50000.000	49694.910	5179397.21	47.5267	A	1.0
8	☐	250000.00	249994.41	26529999.88	237.1598	A	0.4

$$y = 9.4675E-004 * x + 0.4782$$

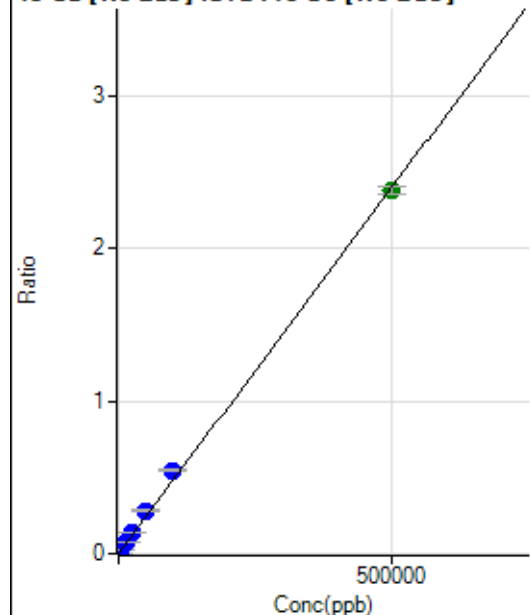
$$R = 1.0000$$

$$DL = 11.29$$

$$BEC = 505$$

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	175.56	0.0001	P	3.0
2	☐	500.000	562.183	4686.32	0.0028	P	2.5
3	☐	5000.000	5881.833	47130.65	0.0283	P	1.6
4	☐	12500.000	15228.299	112259.84	0.0731	P	5.2
5	☐	25000.000	28931.063	215268.40	0.1388	P	1.4
6	☐	50000.000	59033.663	422890.83	0.2831	P	5.8
7	☐	100000.00	114226.74	835548.54	0.5477	P	0.8
8	☐	500000.00	495977.64	3594429.22	2.3776	A	2.1

$$y = 4.7936\text{E-}006 * x + 1.0420\text{E-}004$$

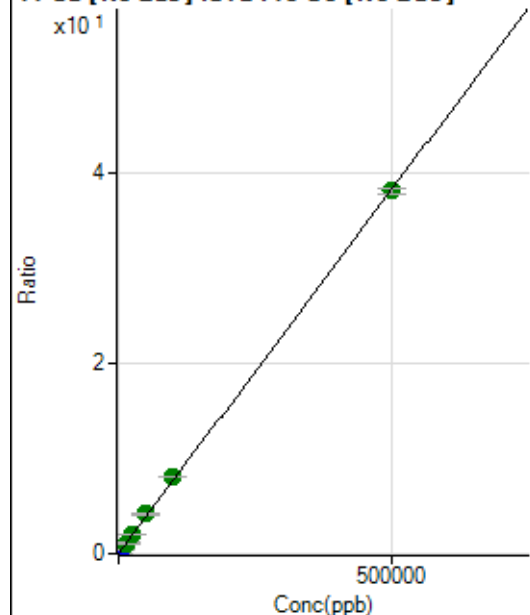
$$R = 0.9995$$

$$DL = 1.983$$

$$BEC = 21.74$$

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	30858.13	0.0183	P	2.4
2	☐	500.000	539.681	99711.67	0.0596	P	1.2
3	☐	5000.000	5689.911	754588.24	0.4531	P	1.4
4	☐	12500.000	14110.434	1684517.46	1.0965	A	3.9
5	☐	25000.000	26723.666	3195506.45	2.0602	A	1.6
6	☐	50000.000	54352.386	6231830.12	4.1713	A	5.5
7	☐	100000.00	104944.13	12262129.68	8.0370	A	0.5
8	☐	500000.00	498442.55	57604623.03	38.1037	A	1.8

$$y = 7.6409\text{E-}005 * x + 0.0183$$

$$R = 0.9999$$

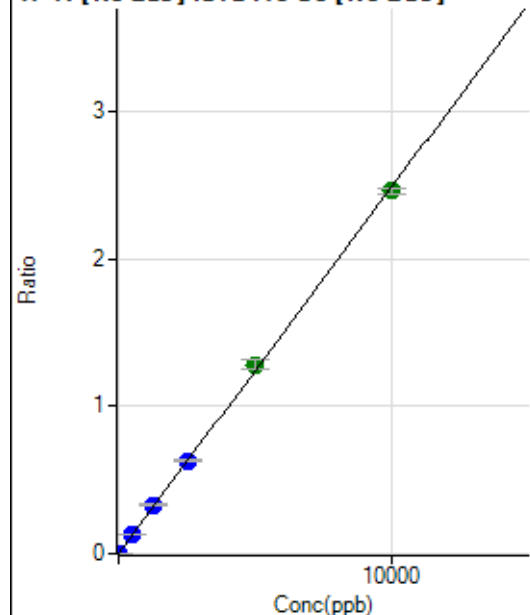
$$DL = 17$$

$$BEC = 239.8$$

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	127.78	0.0001	P	17.4
2	☐	5.000	4.869	2154.62	0.0013	P	1.6
3	☐	500.000	512.764	212532.56	0.1276	P	1.5
4	☐	1250.000	1329.279	507980.70	0.3307	P	4.3
5	☐	2500.000	2537.975	979207.82	0.6313	P	1.6
6	☐	5000.000	5156.493	1916089.73	1.2826	A	5.6
7	☐	10000.000	9901.712	3757471.65	2.4628	A	1.4
8	☐			1585.65	0.0010	P	5.1

$$y = 2.4872E-004 * x + 7.5919E-005$$

$$R = 0.9998$$

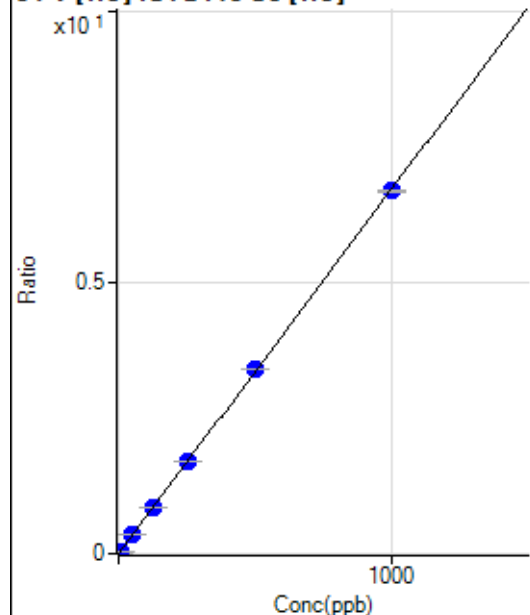
$$DL = 0.1594$$

$$BEC = 0.3052$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	12.22	0.0001	P	42.0
2	☐	5.000	5.391	4497.37	0.0363	P	1.5
3	☐	50.000	50.853	41286.31	0.3416	P	1.4
4	☐	125.000	126.560	97336.62	0.8499	P	1.2
5	☐	250.000	253.080	188196.41	1.6995	P	0.5
6	☐	500.000	506.522	372529.79	3.4014	P	0.2
7	☐	1000.000	995.729	728682.07	6.6864	P	0.7
8	☐			344.45	0.0031	P	11.5

$$y = 0.0067 * x + 9.9907E-005$$

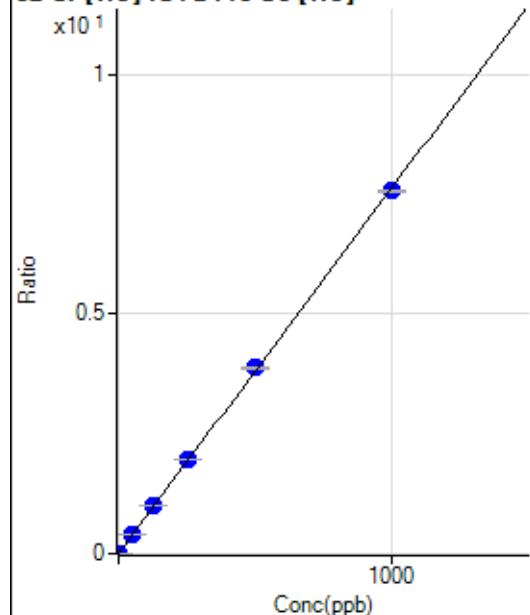
$$R = 1.0000$$

$$DL = 0.01877$$

$$BEC = 0.01488$$

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	267.79	0.0022	P	20.4
2	☐	2.000	2.083	2237.97	0.0181	P	3.0
3	☐	50.000	52.148	48312.57	0.3997	P	0.3
4	☐	125.000	129.235	113077.46	0.9873	P	0.2
5	☐	250.000	257.960	217990.88	1.9686	P	0.9
6	☐	500.000	508.611	424872.83	3.8793	P	0.5
7	☐	1000.000	993.068	825233.41	7.5723	P	0.7
8	☐			7864.34	0.0703	P	1.2

$$y = 0.0076 * x + 0.0022$$

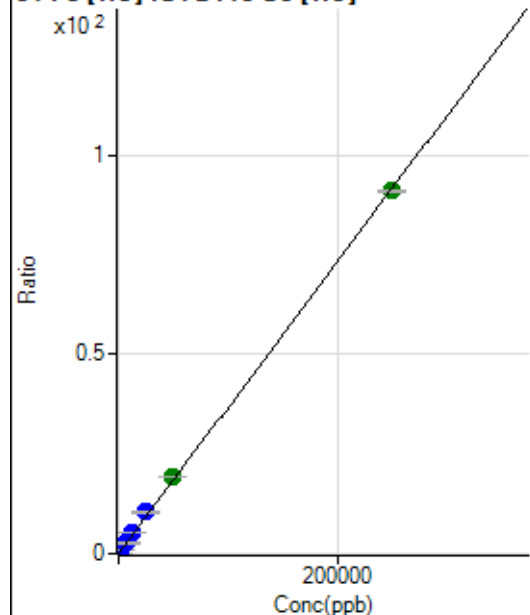
$$R = 0.9999$$

$$DL = 0.1752$$

$$BEC = 0.2869$$

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	1047.83	0.0086	P	4.7
2	☐	50.000	59.503	3752.72	0.0303	P	1.5
3	☐	2500.000	2898.947	129049.29	1.0677	P	0.3
4	☐	6250.000	7237.482	303807.87	2.6528	P	0.8
5	☐	12500.000	14410.278	583940.60	5.2734	P	0.6
6	☐	25000.000	28377.603	1136451.44	10.3764	P	0.4
7	☐	50000.000	53079.401	2114415.04	19.4013	A	0.3
8	☐	250000.00	248922.16	10174373.18	90.9530	A	0.6

$$y = 3.6535E-004 * x + 0.0086$$

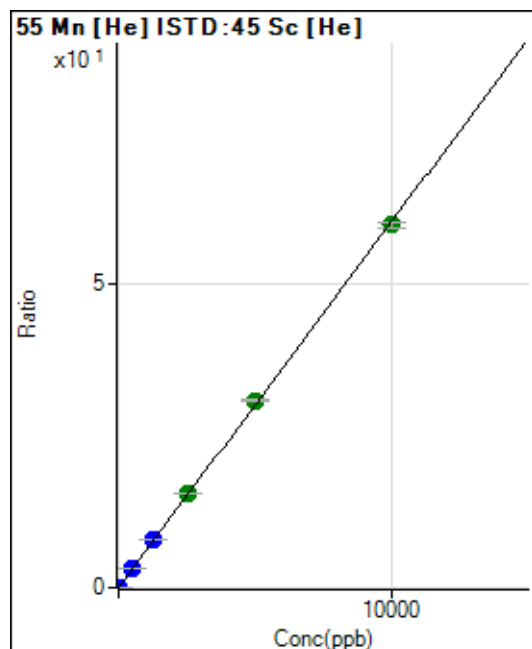
$$R = 0.9999$$

$$DL = 3.282$$

$$BEC = 23.41$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	100.00	0.0008	P	2.8
2	☐	1.000	1.236	1024.49	0.0083	P	3.6
3	☐	500.000	525.242	383010.58	3.1688	P	0.4
4	☐	1250.000	1309.477	904614.86	7.8990	P	0.8
5	☐	2500.000	2574.931	1719875.03	15.5316	A	0.7
6	☐	5000.000	5112.636	3377427.07	30.8378	A	0.5
7	☐	10000.000	9916.252	6518174.55	59.8110	A	1.4
8	☐			4636.31	0.0414	P	1.6

$$y = 0.0060 * x + 8.1598E-004$$

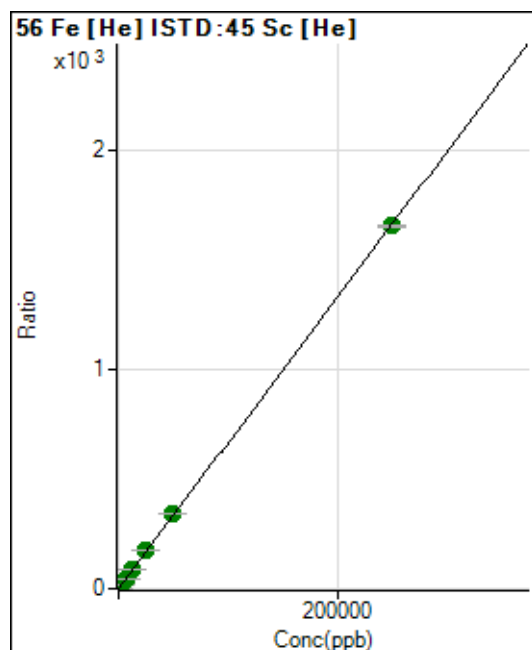
$$R = 0.9999$$

$$DL = 0.01141$$

$$BEC = 0.1353$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	7336.65	0.0598	P	11.5
2	☐	50.000	56.685	54009.89	0.4359	P	0.8
3	☐	2500.000	2728.938	2195675.44	18.1657	A	0.8
4	☐	6250.000	6696.901	5095329.72	44.4922	A	1.0
5	☐	12500.000	13497.578	9923070.82	89.6130	A	0.4
6	☐	25000.000	26609.068	19342215.54	176.6046	A	0.5
7	☐	50000.000	51933.904	37557836.11	344.6288	A	0.7
8	☐	250000.00	249388.97	185103346.1	1,654.695	A	0.4

$$y = 0.0066 * x + 0.0598$$

$$R = 1.0000$$

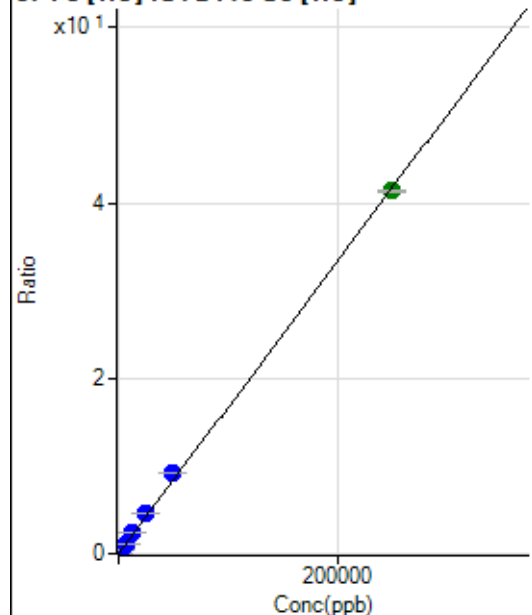
$$DL = 3.112$$

$$BEC = 9.021$$

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	203.34	0.0017	P	3.4
2	☐	50.000	61.398	1472.31	0.0119	P	3.3
3	☐	2500.000	2875.444	58062.76	0.4804	P	1.2
4	☐	6250.000	7137.128	136267.29	1.1899	P	0.9
5	☐	12500.000	14246.171	262815.06	2.3734	P	0.4
6	☐	25000.000	28222.768	514791.73	4.7003	P	0.2
7	☐	50000.000	54949.500	997149.75	9.1499	P	0.8
8	☐	250000.00	248574.58	4629600.28	41.3853	A	0.3

$$y = 1.6648\text{E-}004 * x + 0.0017$$

$$R = 0.9997$$

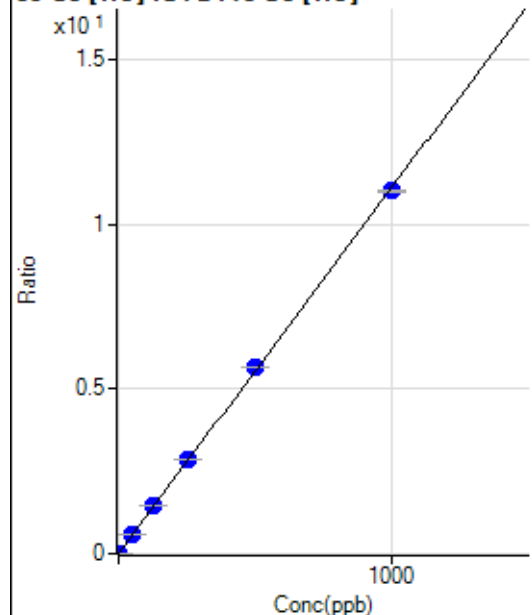
$$DL = 1.019$$

$$BEC = 9.968$$

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	32.22	0.0003	P	23.7
2	☐	1.000	1.130	1587.88	0.0128	P	4.1
3	☐	50.000	52.669	70750.16	0.5853	P	1.2
4	☐	125.000	129.831	165208.25	1.4425	P	0.8
5	☐	250.000	259.089	318730.56	2.8784	P	0.8
6	☐	500.000	510.183	620746.21	5.6678	P	0.5
7	☐	1000.000	991.899	1200855.37	11.0190	P	0.6
8	☐			3611.58	0.0323	P	3.1

$$y = 0.0111 * x + 2.6286\text{E-}004$$

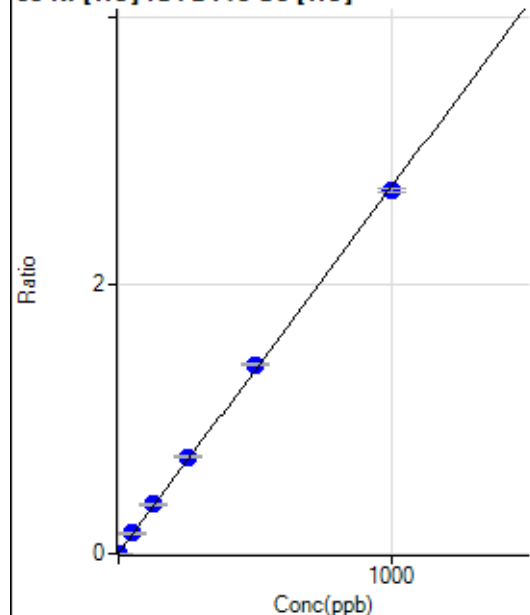
$$R = 0.9999$$

$$DL = 0.01683$$

$$BEC = 0.02366$$

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	496.68	0.0041	P	12.8
2	☐	1.000	1.051	857.81	0.0069	P	4.1
3	☐	50.000	53.744	18225.61	0.1508	P	0.8
4	☐	125.000	132.466	41887.27	0.3657	P	1.2
5	☐	250.000	262.298	79743.63	0.7202	P	1.6
6	☐	500.000	514.064	154158.48	1.4076	P	1.2
7	☐	1000.000	988.773	294641.55	2.7037	P	1.1
8	☐			2815.85	0.0252	P	3.9

$$y = 0.0027 * x + 0.0041$$

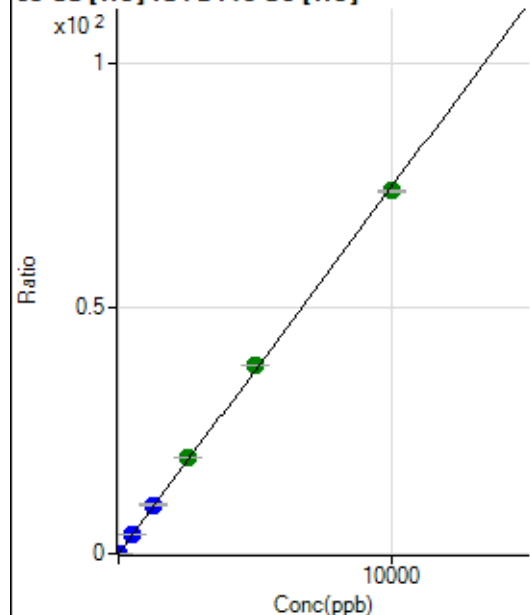
$$R = 0.9998$$

$$DL = 0.57$$

$$BEC = 1.485$$

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	620.02	0.0051	P	12.5
2	☐	2.000	2.229	2692.49	0.0217	P	4.7
3	☐	500.000	537.860	486619.58	4.0261	P	0.3
4	☐	1250.000	1335.176	1143726.55	9.9867	P	0.5
5	☐	2500.000	2617.586	2167485.76	19.5739	A	0.5
6	☐	5000.000	5132.072	4202645.46	38.3721	A	0.2
7	☐	10000.000	9892.028	8059906.68	73.9571	A	0.5
8	☐			4552.95	0.0407	P	2.7

$$y = 0.0075 * x + 0.0051$$

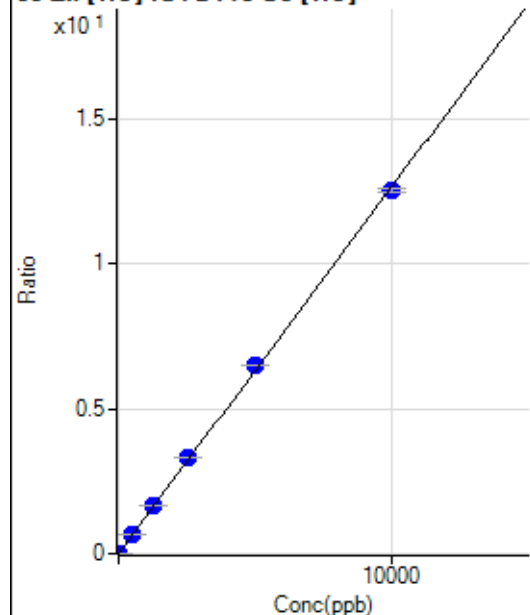
$$R = 0.9998$$

$$DL = 0.253$$

$$BEC = 0.6771$$

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	177.78	0.0015	P	22.7
2	☐	5.000	5.245	1000.05	0.0081	P	8.8
3	☐	500.000	529.371	80992.17	0.6701	P	0.3
4	☐	1250.000	1308.001	189368.25	1.6536	P	1.1
5	☐	2500.000	2604.040	364382.43	3.2906	P	0.5
6	☐	5000.000	5132.875	710224.06	6.4847	P	0.3
7	☐	10000.000	9898.834	1362716.06	12.5045	P	1.1
8	☐			638.91	0.0057	P	15.9

$$y = 0.0013 * x + 0.0015$$

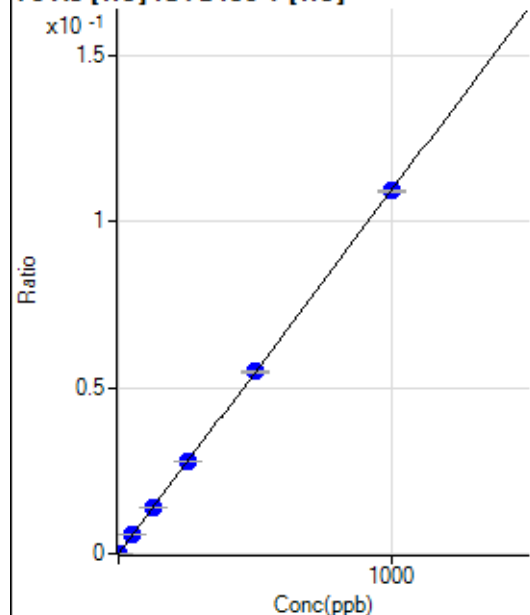
$$R = 0.9998$$

$$DL = 0.7824$$

$$BEC = 1.149$$

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	0.00	0.0000	P	
2	☐	1.000	1.259	132.23	0.0001	P	14.9
3	☐	50.000	52.642	5381.02	0.0058	P	0.4
4	☐	125.000	128.542	12544.29	0.0141	P	0.6
5	☐	250.000	252.321	24143.05	0.0276	P	0.2
6	☐	500.000	500.751	47609.44	0.0548	P	1.1
7	☐	1000.000	998.469	94010.43	0.1092	P	0.4
8	☐			75.55	0.0001	P	21.8

$$y = 1.0935E-004 * x + 0.0000E+000$$

$$R = 1.0000$$

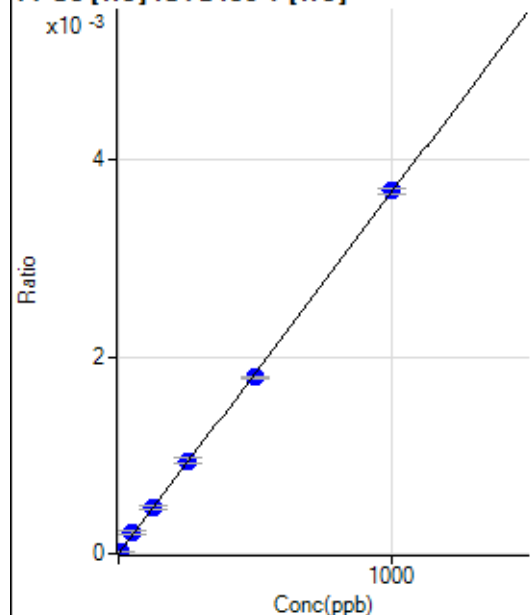
$$DL = 0$$

$$BEC = 0$$

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	0.00	0.0000	P	
2	☐	5.000	5.350	18.89	0.0000	P	40.4
3	☐	50.000	57.647	197.78	0.0002	P	15.1
4	☐	125.000	126.232	413.34	0.0005	P	6.8
5	☐	250.000	256.878	824.48	0.0009	P	6.0
6	☐	500.000	487.665	1555.65	0.0018	P	1.9
7	☐	1000.000	1003.910	3171.49	0.0037	P	1.5
8	☐			5.56	0.0000	P	35.0

$$y = 3.6688\text{E-}06 * x + 0.0000\text{E+}000$$

$$R = 0.9998$$

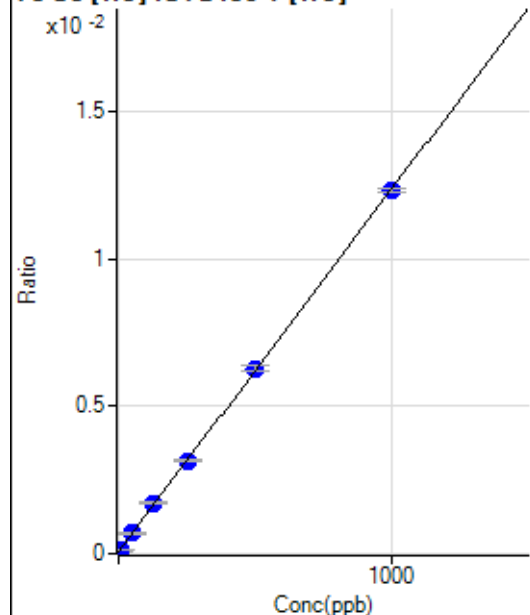
$$DL = 0$$

$$BEC = 0$$

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	67.78	0.0001	P	24.3
2	☐	5.000	3.551	110.00	0.0001	P	16.4
3	☐	50.000	49.970	640.02	0.0007	P	2.9
4	☐	125.000	133.315	1524.54	0.0017	P	3.7
5	☐	250.000	251.192	2761.39	0.0032	P	1.8
6	☐	500.000	506.279	5467.72	0.0063	P	3.5
7	☐	1000.000	995.532	10588.31	0.0123	P	1.0
8	☐			57.78	0.0001	P	12.4

$$y = 1.2282\text{E-}05 * x + 7.0958\text{E-}005$$

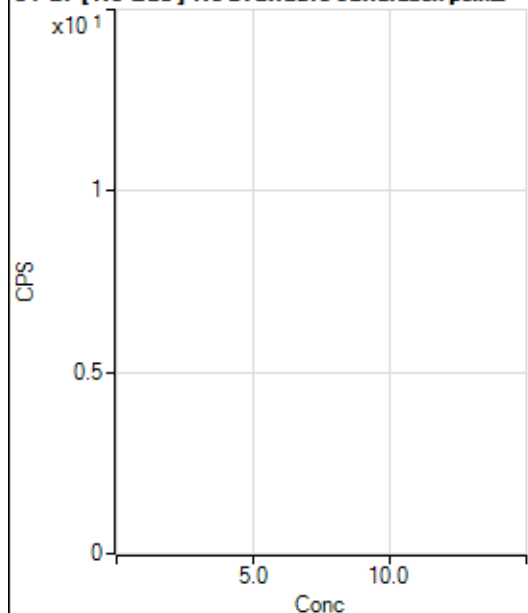
$$R = 0.9999$$

$$DL = 4.215$$

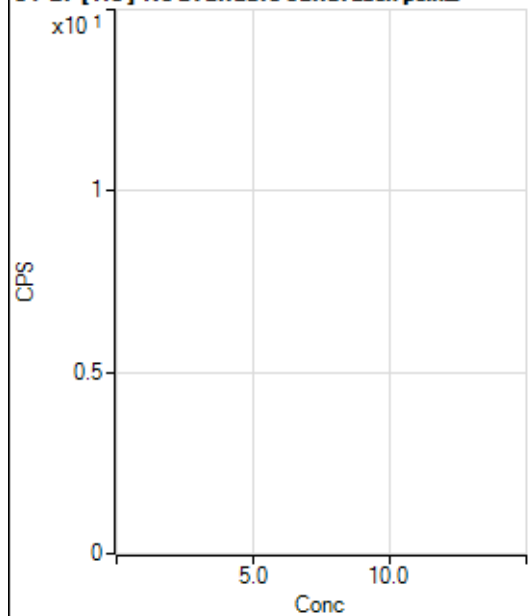
$$BEC = 5.777$$

Weight: <None>

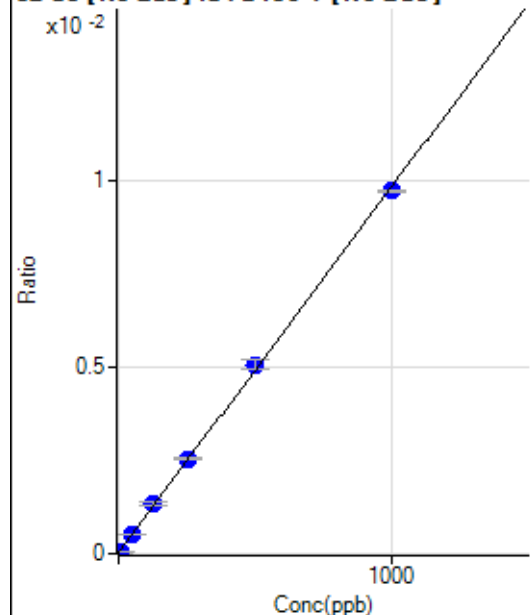
Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			17945.44		P	1.2
2	☐			17753.01		P	0.7
3	☐			17872.01		P	0.2
4	☐			17112.23		P	2.6
5	☐			16667.26		P	1.2
6	☐			15439.31		P	2.3
7	☐			15382.57		P	1.8
8	☐			16046.59		P	0.4

81 Br [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			35.56		P	62.4
2	☐			33.33		P	43.6
3	☐			20.00		P	16.7
4	☐			34.45		P	45.7
5	☐			24.44		P	20.8
6	☐			26.67		P	45.1
7	☐			31.11		P	48.3
8	☐			23.33		P	28.6

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	98.77	0.0000	P	6.0
2	☐	5.000	4.532	273.34	0.0001	P	11.6
3	☐	50.000	50.806	2046.04	0.0005	P	2.0
4	☐	125.000	135.133	4949.38	0.0013	P	6.2
5	☐	250.000	256.409	9512.15	0.0025	P	1.5
6	☐	500.000	515.217	18424.83	0.0051	P	5.5
7	☐	1000.000	989.485	36222.66	0.0097	P	0.4
8	☐			110.04	0.0000	P	29.2

$$y = 9.8043\text{E-}006 * x + 2.4973\text{E-}005$$

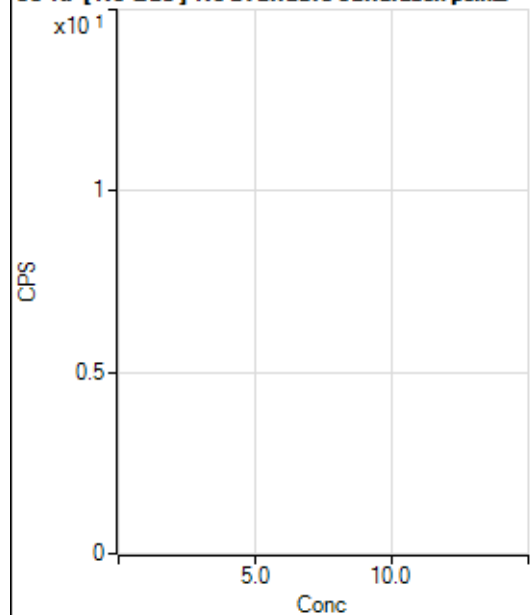
$$R = 0.9998$$

$$DL = 0.4569$$

$$BEC = 2.547$$

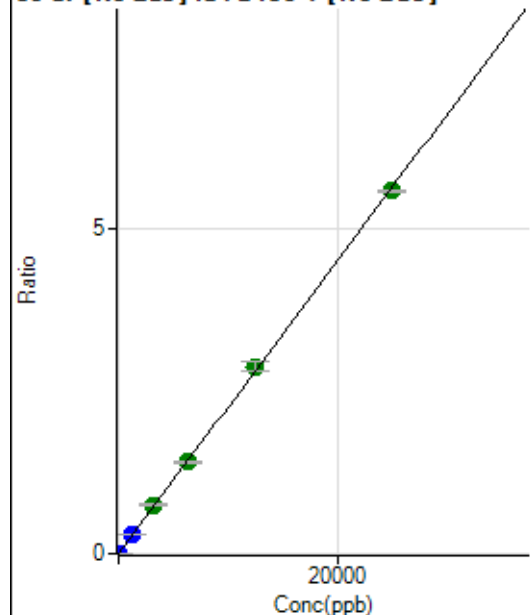
Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			22.22		P	52.7
2	☐			48.89		P	15.7
3	☐			38.89		P	17.8
4	☐			47.78		P	4.0
5	☐			44.44		P	33.8
6	☐			42.22		P	4.6
7	☐			68.89		P	2.8
8	☐			42.22		P	35.6

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	74.45	0.0000	P	17.8
2	☐	1.000	1.073	1026.71	0.0003	P	5.7
3	☐	1250.000	1285.052	1133184.32	0.2897	P	2.0
4	☐	3125.000	3341.937	2761623.43	0.7534	A	6.8
5	☐	6250.000	6260.827	5288273.91	1.4115	A	0.7
6	☐	12500.000	12791.069	10467957.69	2.8837	A	5.1
7	☐	25000.000	24822.889	20841947.88	5.5962	A	0.5
8	☐			7426.40	0.0021	P	7.5

$$y = 2.2544\text{E-}004 * x + 1.8813\text{E-}005$$

$$R = 0.9999$$

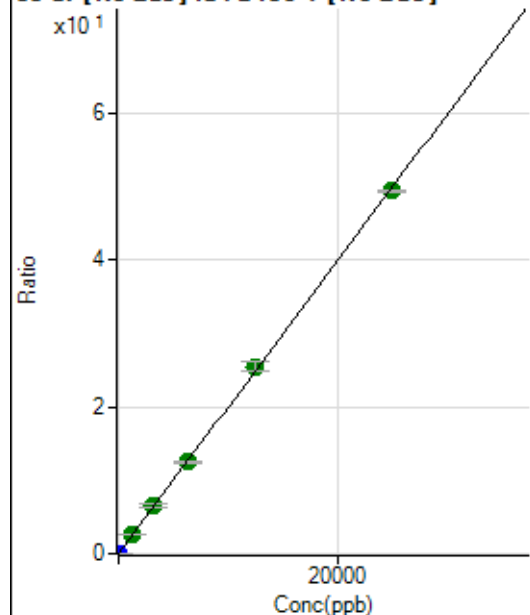
$$DL = 0.04445$$

$$BEC = 0.08345$$

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	110.00	0.0000	P	27.5
2	☐	1.000	1.034	8207.91	0.0021	P	1.3
3	☐	1250.000	1279.648	9954900.06	2.5452	A	1.8
4	☐	3125.000	3270.485	23847417.98	6.5048	A	6.3
5	☐	6250.000	6259.015	46640932.64	12.4489	A	0.9
6	☐	12500.000	12805.280	92440414.18	25.4690	A	5.6
7	☐	25000.000	24825.438	183892990.5	49.3765	A	0.8
8	☐			64478.74	0.0179	P	7.0

$$y = 0.0020 * x + 2.7799\text{E-}005$$

$$R = 0.9999$$

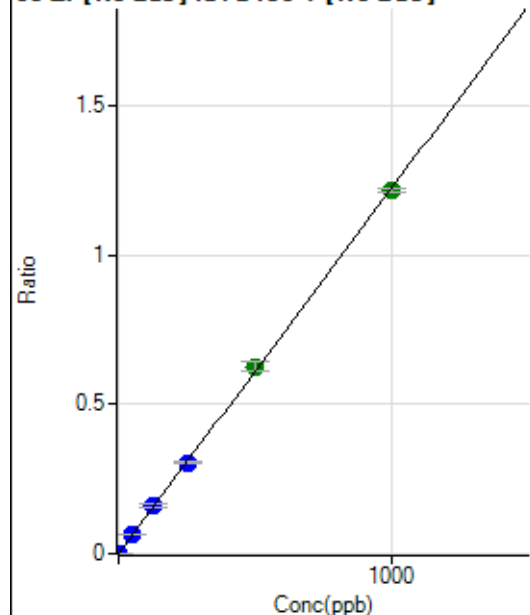
$$DL = 0.01154$$

$$BEC = 0.01398$$

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	183.34	0.0000	P	12.2
2	☐	1.000	0.999	4990.90	0.0013	P	3.6
3	☐	50.000	50.918	243652.93	0.0623	P	1.7
4	☐	125.000	130.920	587007.01	0.1601	P	6.0
5	☐	250.000	249.809	1144360.83	0.3054	P	0.7
6	☐	500.000	511.787	2271447.99	0.6257	A	5.0
7	☐	1000.000	993.368	4523043.61	1.2144	A	1.2
8	☐			3377.09	0.0009	P	5.5

$$y = 0.0012 * x + 4.6358E-005$$

$$R = 0.9999$$

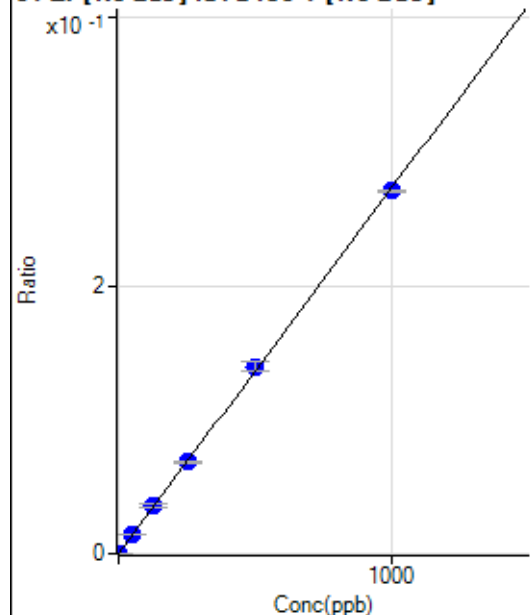
$$DL = 0.01388$$

$$BEC = 0.03792$$

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	28.89	0.0000	P	17.9
2	☐	1.000	0.957	1056.72	0.0003	P	4.3
3	☐	50.000	51.009	54428.23	0.0139	P	1.1
4	☐	125.000	132.400	132399.56	0.0361	P	5.8
5	☐	250.000	250.755	256178.55	0.0684	P	0.9
6	☐	500.000	512.319	507019.25	0.1397	P	5.6
7	☐	1000.000	992.676	1008003.67	0.2707	P	0.3
8	☐			711.14	0.0002	P	8.4

$$y = 2.7265E-004 * x + 7.3047E-006$$

$$R = 0.9999$$

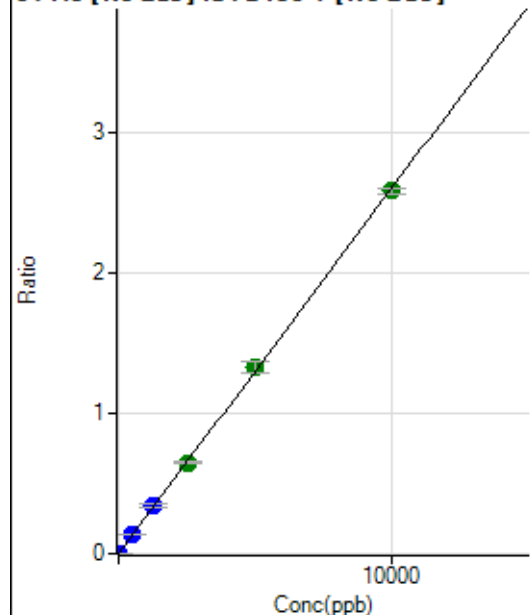
$$DL = 0.01437$$

$$BEC = 0.02679$$

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	92.22	0.0000	P	14.9
2	☐	5.000	5.471	5687.83	0.0014	P	1.4
3	☐	500.000	512.351	520634.57	0.1331	P	2.6
4	☐	1250.000	1319.520	1256760.25	0.3428	P	6.3
5	☐	2500.000	2496.617	2429952.50	0.6486	A	1.7
6	☐	5000.000	5111.429	4818795.76	1.3278	A	6.1
7	☐	10000.000	9935.824	9613083.74	2.5811	A	1.3
8	☐			6391.44	0.0018	P	0.6

$$y = 2.5978\text{E-}004 * x + 2.3322\text{E-}005$$

$$R = 0.9999$$

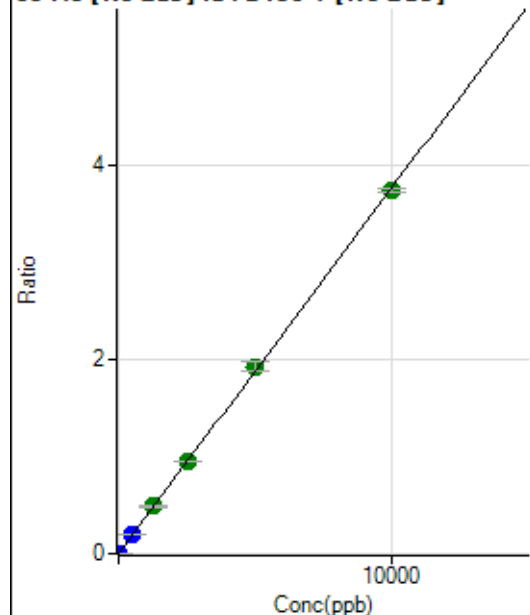
$$DL = 0.0401$$

$$BEC = 0.08978$$

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	104.44	0.0000	P	17.7
2	☐	5.000	4.673	7035.09	0.0018	P	1.6
3	☐	500.000	514.028	757475.35	0.1937	P	1.6
4	☐	1250.000	1306.690	1805527.35	0.4923	A	5.2
5	☐	2500.000	2520.089	3556853.94	0.9494	A	0.8
6	☐	5000.000	5117.852	6998355.10	1.9279	A	5.2
7	☐	10000.000	9928.264	13928948.40	3.7401	A	1.0
8	☐			9155.16	0.0025	P	4.3

$$y = 3.7671\text{E-}004 * x + 2.6408\text{E-}005$$

$$R = 0.9999$$

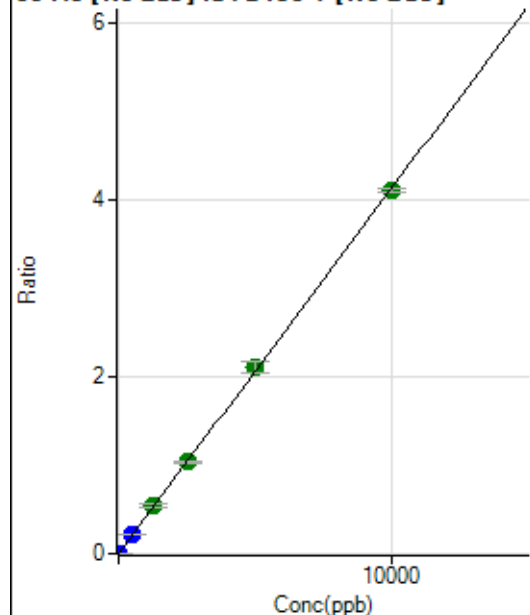
$$DL = 0.03727$$

$$BEC = 0.0701$$

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	63.33	0.0000	P	19.3
2	☐	5.000	4.861	7967.80	0.0020	P	1.1
3	☐	500.000	515.661	833027.31	0.2130	P	1.8
4	☐	1250.000	1311.773	1986324.43	0.5418	A	6.2
5	☐	2500.000	2510.449	3884512.44	1.0368	A	1.0
6	☐	5000.000	5108.038	7657105.93	2.1096	A	5.5
7	☐	10000.000	9934.864	15281065.33	4.1031	A	1.2
8	☐			10988.67	0.0030	P	4.7

$$y = 4.1299\text{E-}004 * x + 1.6019\text{E-}005$$

R = 0.9999

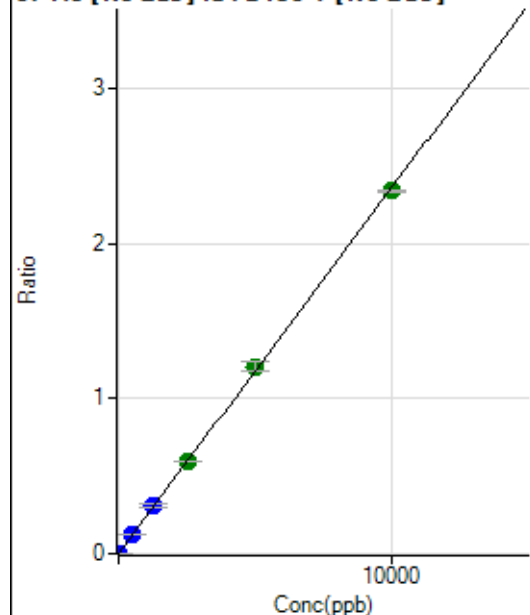
DL = 0.0225

BEC = 0.03879

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	45.56	0.0000	P	11.1
2	☐	5.000	4.671	4377.36	0.0011	P	5.4
3	☐	500.000	518.218	477506.47	0.1221	P	1.6
4	☐	1250.000	1327.970	1146814.91	0.3128	P	6.4
5	☐	2500.000	2526.962	2230185.52	0.5953	A	1.7
6	☐	5000.000	5123.672	4381216.22	1.2069	A	5.1
7	☐	10000.000	9920.767	8703485.91	2.3370	A	0.6
8	☐			5817.87	0.0016	P	4.3

$$y = 2.3556\text{E-}004 * x + 1.1517\text{E-}005$$

R = 0.9999

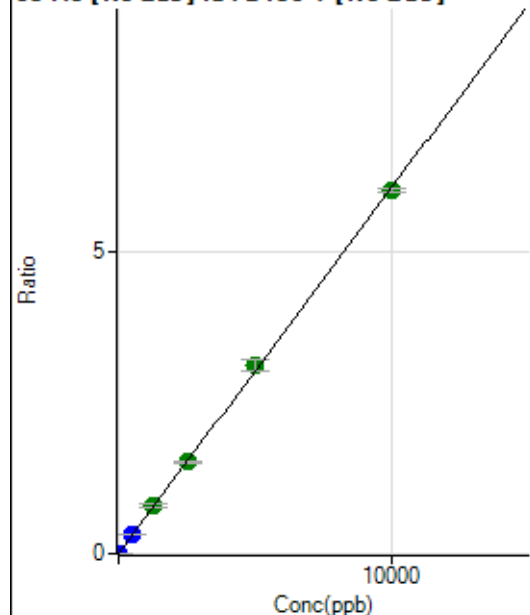
DL = 0.01632

BEC = 0.04889

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	82.22	0.0000	P	23.4
2	☐	5.000	4.785	11502.38	0.0029	P	1.5
3	☐	500.000	519.314	1231412.37	0.3148	P	1.8
4	☐	1250.000	1309.842	2911315.93	0.7941	A	6.1
5	☐	2500.000	2513.152	5708015.75	1.5235	A	1.9
6	☐	5000.000	5143.594	11317317.61	3.1182	A	5.7
7	☐	10000.000	9916.469	22388454.11	6.0116	A	0.9
8	☐			14600.75	0.0040	P	2.9

$$y = 6.0622\text{E-}004 * x + 2.0772\text{E-}005$$

$$R = 0.9998$$

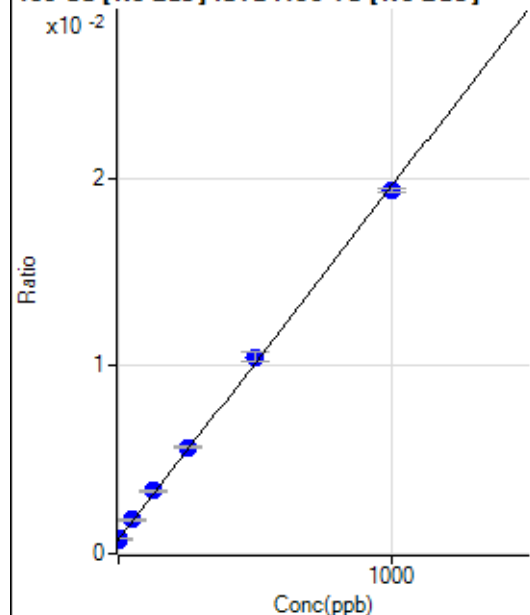
$$DL = 0.02404$$

$$BEC = 0.03427$$

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	3369.32	0.0007	P	2.3
2	☐	1.000	3.982	3693.84	0.0008	P	2.8
3	☐	50.000	56.969	8098.99	0.0018	P	3.9
4	☐	125.000	138.174	14063.57	0.0033	P	3.3
5	☐	250.000	260.972	24713.31	0.0057	P	1.3
6	☐	500.000	516.974	44471.09	0.0105	P	5.0
7	☐	1000.000	986.772	84991.02	0.0193	P	1.0
8	☐			3353.76	0.0008	P	4.7

$$y = 1.8803\text{E-}005 * x + 7.4820\text{E-}004$$

$$R = 0.9997$$

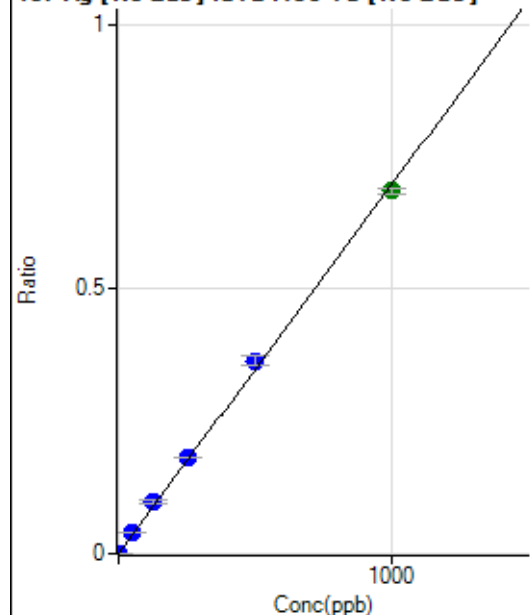
$$DL = 2.787$$

$$BEC = 39.79$$

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	43.33	0.0000	P	20.6
2	☐	1.000	1.043	3304.85	0.0007	P	2.7
3	☐	50.000	55.482	172104.63	0.0387	P	1.6
4	☐	125.000	140.832	412257.38	0.0981	P	4.6
5	☐	250.000	260.369	792778.85	0.1814	P	1.6
6	☐	500.000	522.670	1546974.41	0.3642	P	5.1
7	☐	1000.000	983.819	3018107.00	0.6855	A	1.7
8	☐			1094.50	0.0003	P	16.4

$$y = 6.9677\text{E-}004 * x + 9.6261\text{E-}006$$

$$R = 0.9995$$

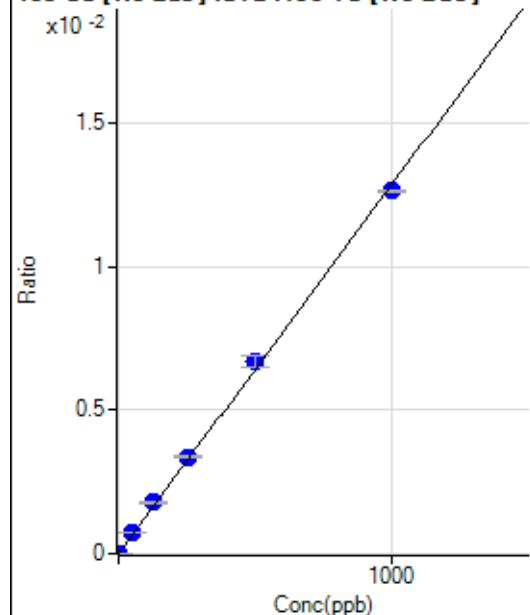
$$DL = 0.008517$$

$$BEC = 0.01382$$

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	10.00	0.0000	P	33.4
2	☐	1.000	0.925	63.33	0.0000	P	11.4
3	☐	50.000	56.003	3215.94	0.0007	P	1.0
4	☐	125.000	138.476	7495.34	0.0018	P	3.1
5	☐	250.000	262.690	14776.51	0.0034	P	1.6
6	☐	500.000	521.295	28485.75	0.0067	P	5.5
7	☐	1000.000	984.195	55746.57	0.0127	P	0.3
8	☐			97.78	0.0000	P	8.0

$$y = 1.2862\text{E-}005 * x + 2.2209\text{E-}006$$

$$R = 0.9995$$

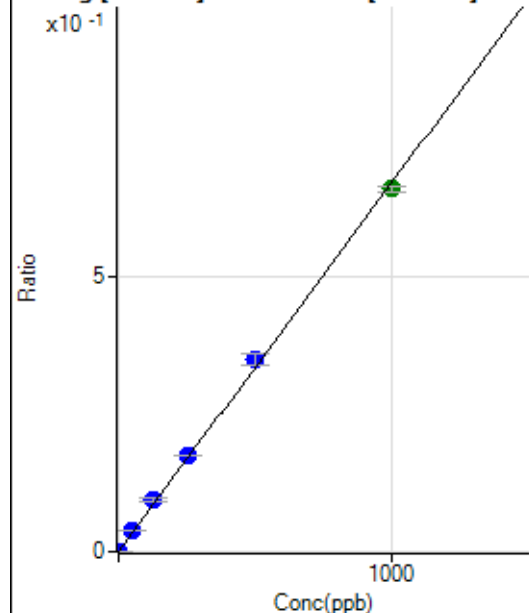
$$DL = 0.1729$$

$$BEC = 0.1727$$

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	17.78	0.0000	P	21.6
2	☐	1.000	1.071	3243.74	0.0007	P	3.7
3	☐	50.000	55.357	165462.64	0.0372	P	1.4
4	☐	125.000	140.904	397469.09	0.0946	P	4.7
5	☐	250.000	260.835	765374.68	0.1751	P	1.4
6	☐	500.000	521.673	1487880.19	0.3503	P	5.3
7	☐	1000.000	984.199	2909712.91	0.6609	A	1.3
8	☐			1013.38	0.0002	P	11.2

$$y = 6.7148\text{E-}004 * x + 3.9472\text{E-}006$$

$$R = 0.9995$$

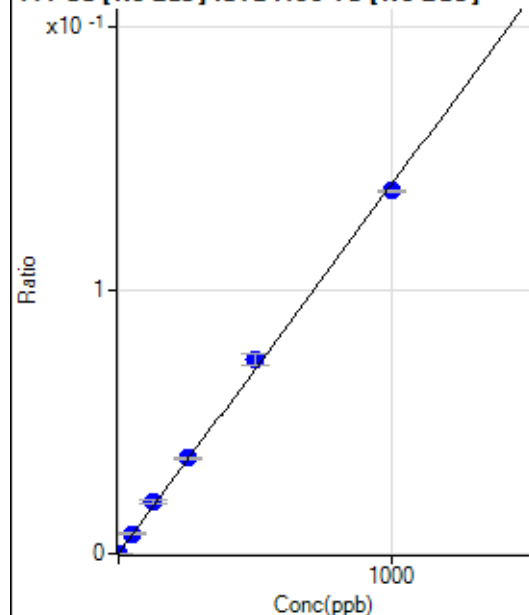
$$DL = 0.003808$$

$$BEC = 0.005878$$

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	333.27	0.0001	P	2.6
2	☐	1.000	1.098	1022.56	0.0002	P	3.8
3	☐	50.000	54.121	34070.86	0.0077	P	0.6
4	☐	125.000	139.683	82487.83	0.0196	P	5.0
5	☐	250.000	258.487	158513.44	0.0363	P	2.5
6	☐	500.000	525.034	312630.67	0.0736	P	5.6
7	☐	1000.000	983.320	606737.60	0.1378	P	0.5
8	☐			577.83	0.0001	P	2.9

$$y = 1.4006\text{E-}004 * x + 7.4007\text{E-}005$$

$$R = 0.9994$$

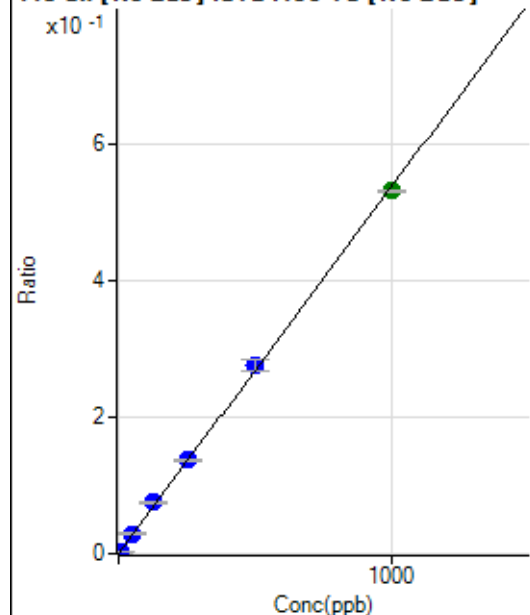
$$DL = 0.04082$$

$$BEC = 0.5284$$

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	560.02	0.0001	P	4.9
2	☐	5.000	5.183	13069.35	0.0029	P	1.5
3	☐	50.000	54.392	130789.06	0.0294	P	1.5
4	☐	125.000	139.839	316531.11	0.0754	P	4.7
5	☐	250.000	255.407	600919.94	0.1375	P	2.3
6	☐	500.000	515.707	1178685.14	0.2776	P	6.0
7	☐	1000.000	988.719	2342595.28	0.5320	A	0.8
8	☐			2095.73	0.0005	P	2.0

$$y = 5.3796\text{E-}004 * x + 1.2437\text{E-}004$$

$$R = 0.9997$$

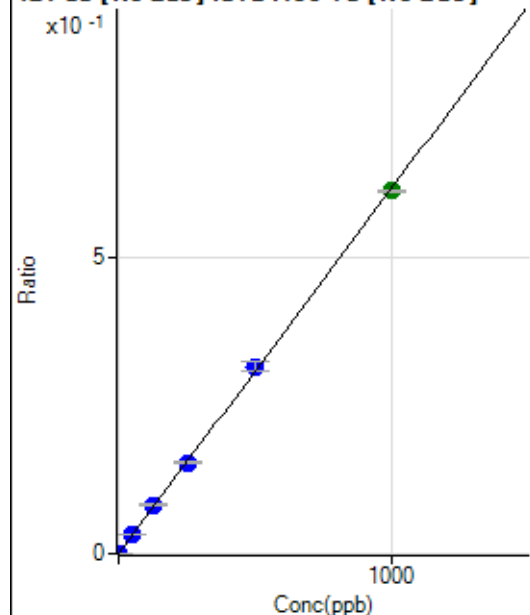
$$DL = 0.03387$$

$$BEC = 0.2312$$

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	23.33	0.0000	P	24.9
2	☐	2.000	2.078	5763.42	0.0013	P	1.2
3	☐	50.000	51.683	141645.84	0.0318	P	1.2
4	☐	125.000	132.244	342051.71	0.0814	P	4.5
5	☐	250.000	248.261	667856.14	0.1528	P	2.3
6	☐	500.000	512.256	1339446.06	0.3154	P	5.5
7	☐	1000.000	993.317	2692628.36	0.6115	A	0.8
8	☐			2501.35	0.0006	P	4.6

$$y = 6.1564\text{E-}004 * x + 5.1830\text{E-}006$$

$$R = 0.9999$$

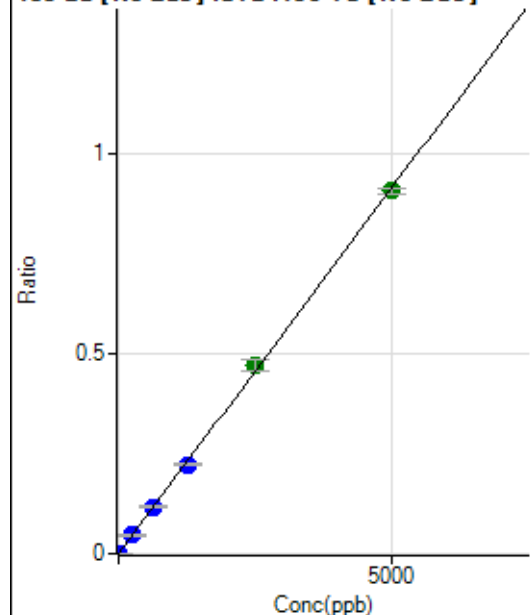
$$DL = 0.006293$$

$$BEC = 0.008419$$

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	14.45	0.0000	P	74.3
2	☐	10.000	10.078	8258.02	0.0018	P	0.8
3	☐	250.000	250.653	203404.05	0.0457	P	1.6
4	☐	625.000	644.439	493596.37	0.1175	P	4.4
5	☐	1250.000	1217.489	969886.18	0.2220	P	2.4
6	☐	2500.000	2583.888	2000579.41	0.4711	A	5.9
7	☐	5000.000	4963.721	3984363.20	0.9049	A	1.4
8	☐			1890.14	0.0005	P	4.9

$$y = 1.8231E-004 * x + 3.2102E-006$$

$$R = 0.9998$$

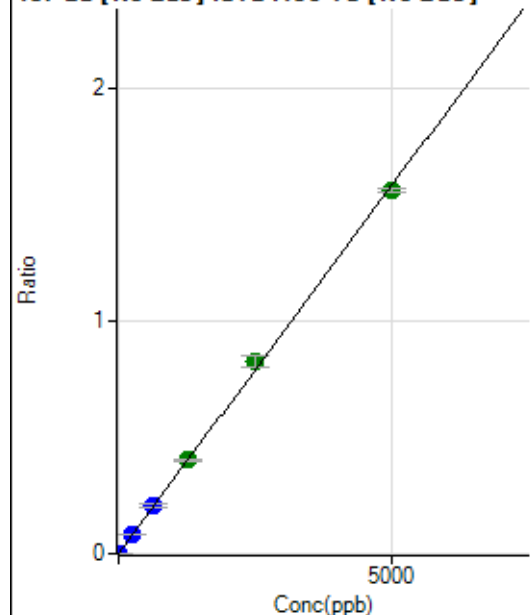
$$DL = 0.03927$$

$$BEC = 0.01761$$

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	22.22	0.0000	P	56.9
2	☐	10.000	10.209	14496.37	0.0032	P	1.0
3	☐	250.000	255.118	358789.27	0.0806	P	1.2
4	☐	625.000	654.153	868222.21	0.2067	P	4.8
5	☐	1250.000	1272.745	1757185.34	0.4021	A	2.3
6	☐	2500.000	2617.785	3513045.57	0.8271	A	5.3
7	☐	5000.000	4931.521	6860659.14	1.5581	A	1.2
8	☐			3423.78	0.0008	P	5.6

$$y = 3.1595E-004 * x + 4.9362E-006$$

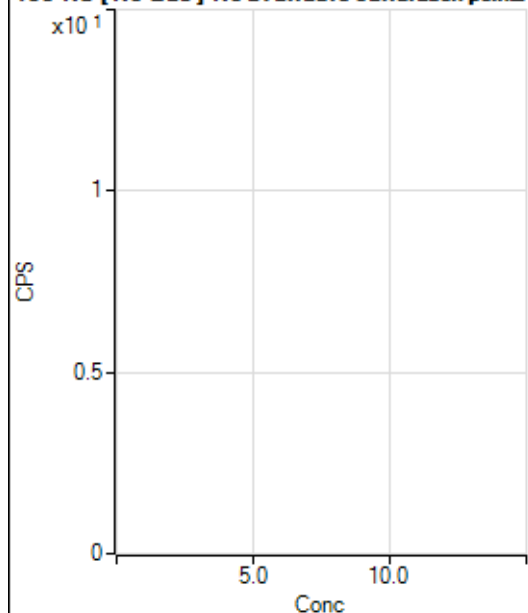
$$R = 0.9996$$

$$DL = 0.02666$$

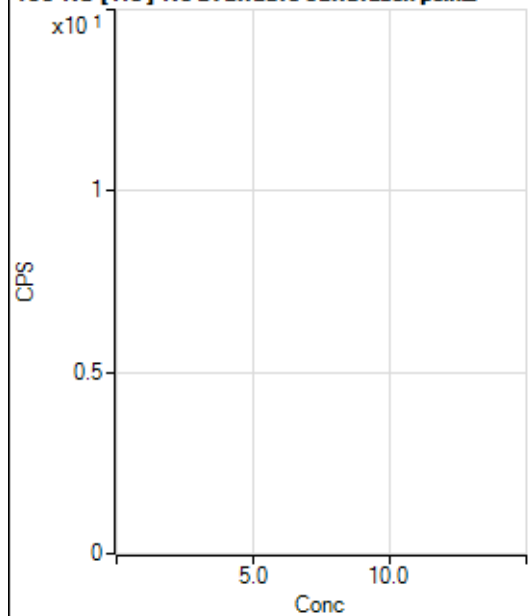
$$BEC = 0.01562$$

Weight: <None>

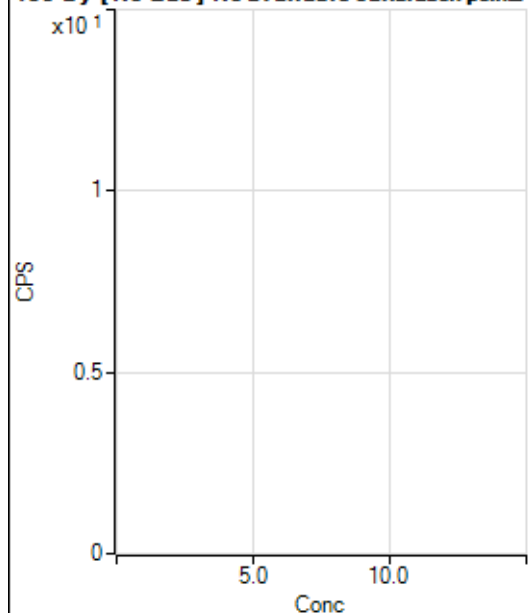
Min Conc: 0

150 Nd [No Gas] No available calibration points

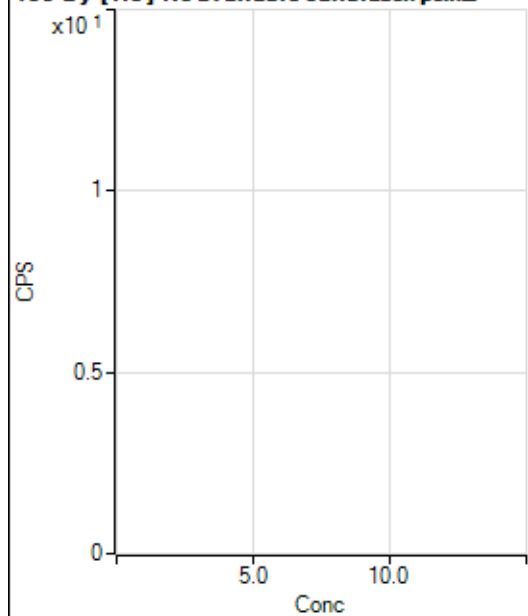
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			7.78		P	65.5
2	☐			6.67		P	50.0
3	☐			74.44		P	24.7
4	☐			184.45		P	8.5
5	☐			353.34		P	4.3
6	☐			632.24		P	2.6
7	☐			1243.40		P	4.8
8	☐			81.11		P	21.1

150 Nd [He] No available calibration points

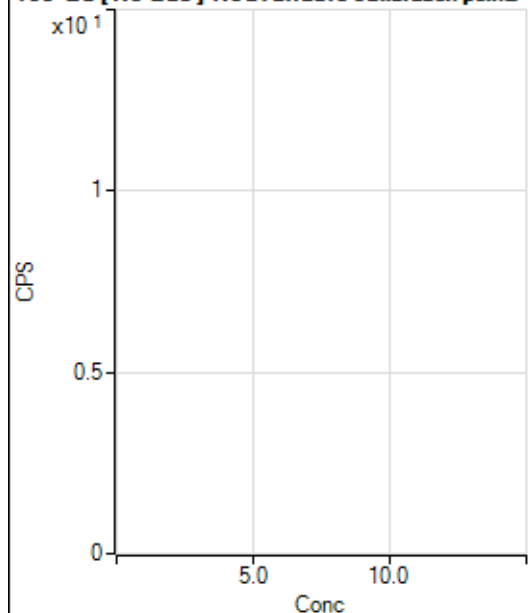
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			3.33		P	100.
2	☐			2.22		P	86.6
3	☐			13.33		P	43.3
4	☐			31.11		P	32.7
5	☐			50.00		P	6.7
6	☐			115.56		P	6.0
7	☐			220.00		P	6.1
8	☐			30.00		P	29.4

156 Dy [No Gas] No available calibration points

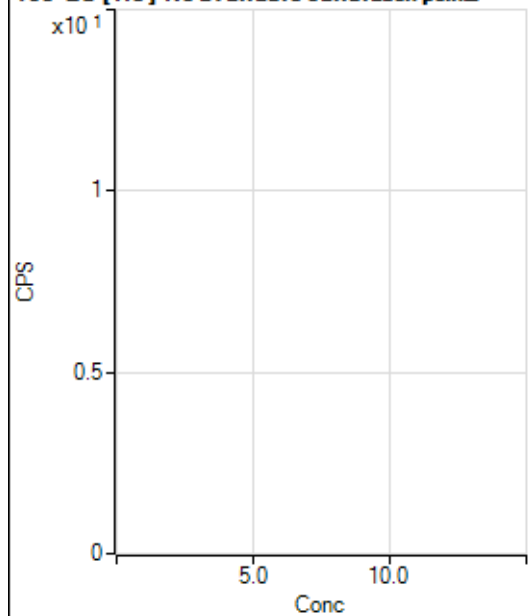
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			5.55		P	69.3
2	☐			10.00		P	88.2
3	☐			15.55		P	24.8
4	☐			28.89		P	17.6
5	☐			67.78		P	19.9
6	☐			94.45		P	17.8
7	☐			195.56		P	13.9
8	☐			172.23		P	4.5

156 Dy [He] No available calibration points

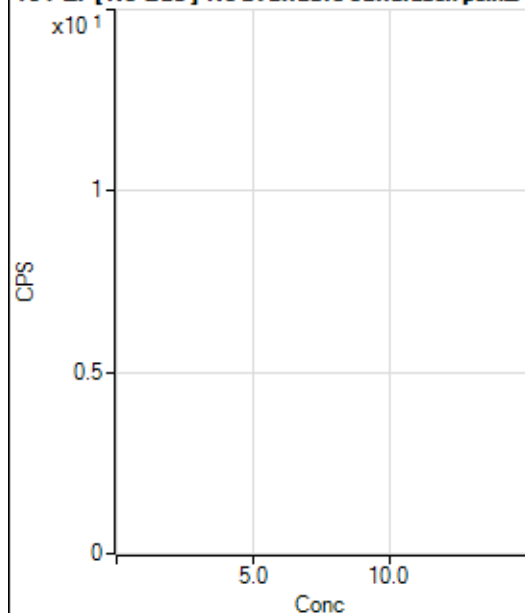
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1.11		P	173.
2	☐			2.22		P	86.6
3	☐			13.33		P	50.0
4	☐			23.33		P	14.3
5	☐			55.55		P	12.5
6	☐			90.00		P	20.6
7	☐			194.45		P	19.5
8	☐			96.67		P	18.2

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

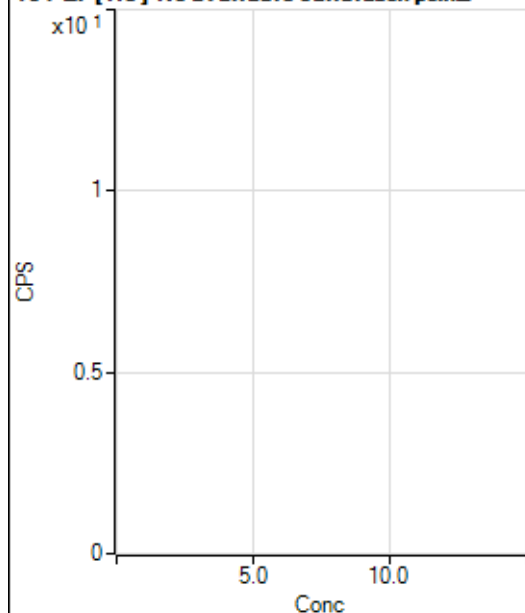
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			48.89		P	10.4
2	☐			35.55		P	19.5
3	☐			28.89		P	17.6
4	☐			32.22		P	15.8
5	☐			40.00		P	0.0
6	☐			48.89		P	25.8
7	☐			72.22		P	2.7
8	☐			125.56		P	12.3

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			198.89		P	12.6
2	☐			198.89		P	14.1
3	☐			188.89		P	8.7
4	☐			136.67		P	8.4
5	☐			170.00		P	12.9
6	☐			204.45		P	14.6
7	☐			171.12		P	22.5
8	☐			242.23		P	15.2

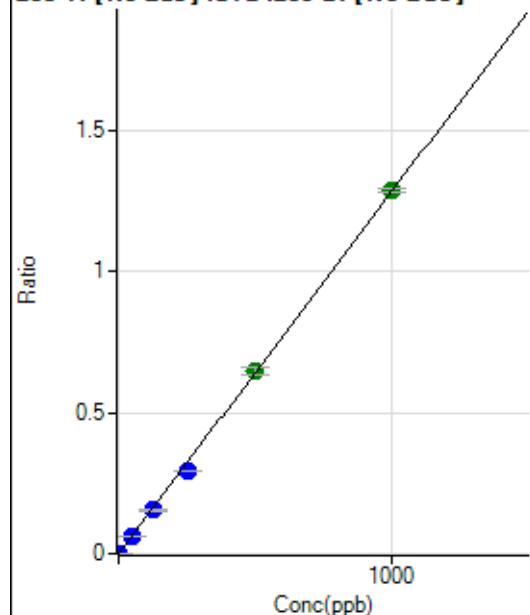
164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			27.78		P	54.1
2	☐			25.55		P	15.1
3	☐			32.22		P	12.0
4	☐			27.78		P	13.9
5	☐			47.78		P	4.0
6	☐			60.00		P	34.7
7	☐			82.22		P	4.7
8	☐			163.34		P	10.6

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			23.33		P	NaN
2	☐			23.33		P	37.8
3	☐			22.22		P	8.7
4	☐			33.33		P	30.0
5	☐			42.22		P	12.1
6	☐			41.11		P	18.7
7	☐			42.22		P	16.4
8	☐			117.78		P	27.2

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	26.66	0.0000	P	21.8
2	☐	1.000	0.951	3671.65	0.0012	P	2.4
3	☐	50.000	46.383	174204.25	0.0595	P	2.1
4	☐	125.000	120.374	424365.93	0.1544	P	5.2
5	☐	250.000	227.887	852711.67	0.2923	P	1.6
6	☐	500.000	506.232	1809404.02	0.6494	A	4.6
7	☐	1000.000	1003.171	3683081.92	1.2868	A	1.2
8	☐			1017.83	0.0004	P	14.8

$$y = 0.0013 * x + 8.8103E-006$$

$$R = 0.9997$$

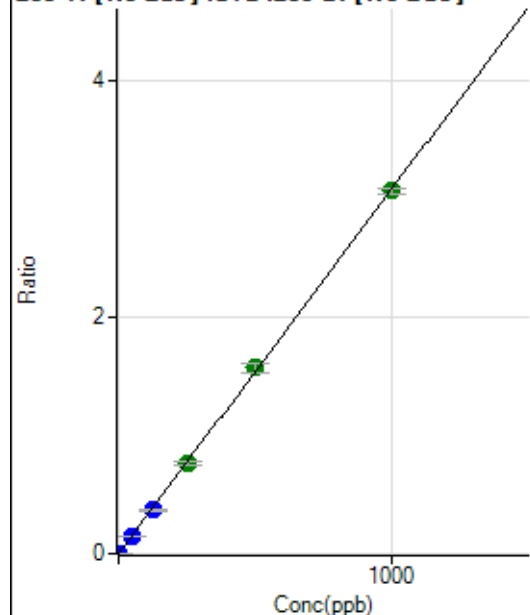
$$DL = 0.004488$$

$$BEC = 0.006868$$

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	78.89	0.0000	P	21.7
2	☐	1.000	0.925	8596.12	0.0029	P	1.4
3	☐	50.000	46.174	417024.52	0.1424	P	1.3
4	☐	125.000	119.817	1015646.71	0.3696	P	5.3
5	☐	250.000	247.680	2228297.31	0.7639	A	2.6
6	☐	500.000	510.869	4389304.14	1.5757	A	5.5
7	☐	1000.000	995.985	8792396.54	3.0719	A	1.4
8	☐			2383.57	0.0010	P	21.5

$$y = 0.0031 * x + 2.6062E-005$$

$$R = 0.9999$$

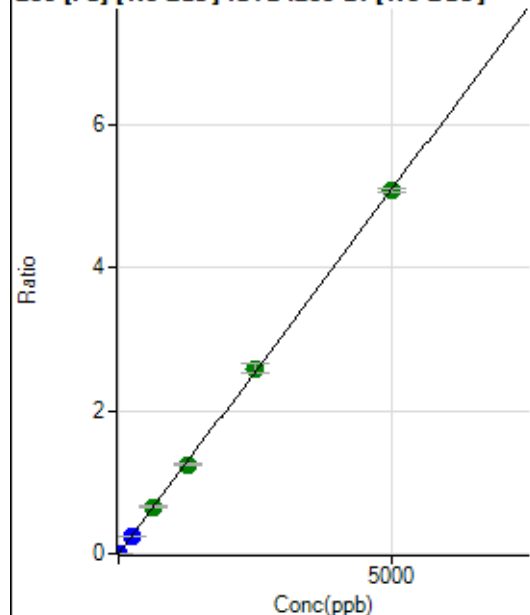
$$DL = 0.005506$$

$$BEC = 0.00845$$

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	116.67	0.0000	P	4.6
2	☐	1.000	0.963	3042.60	0.0010	P	5.6
3	☐	250.000	236.292	704166.21	0.2405	P	1.4
4	☐	625.000	645.651	1806096.47	0.6571	A	5.0
5	☐	1250.000	1226.211	3640367.76	1.2480	A	2.7
6	☐	2500.000	2541.951	7206217.39	2.5871	A	5.7
7	☐	5000.000	4983.076	14515612.70	5.0715	A	1.2
8	☐			7721.17	0.0031	P	7.1

$$y = 0.0010 * x + 3.8541E-005$$

$$R = 0.9999$$

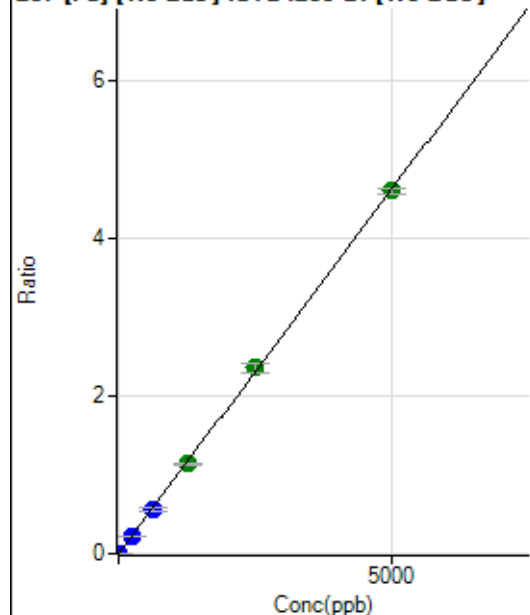
$$DL = 0.005186$$

$$BEC = 0.03787$$

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	75.56	0.0000	P	16.3
2	☐	1.000	0.926	2626.95	0.0009	P	3.1
3	☐	250.000	231.670	626238.22	0.2139	P	2.2
4	☐	625.000	606.108	1538165.22	0.5596	P	4.9
5	☐	1250.000	1231.721	3317146.27	1.1372	A	2.3
6	☐	2500.000	2551.227	6561667.13	2.3555	A	5.4
7	☐	5000.000	4982.234	13165709.25	4.5999	A	1.4
8	☐			6902.93	0.0028	P	6.6

$$y = 9.2326E-004 * x + 2.4952E-005$$

$$R = 0.9999$$

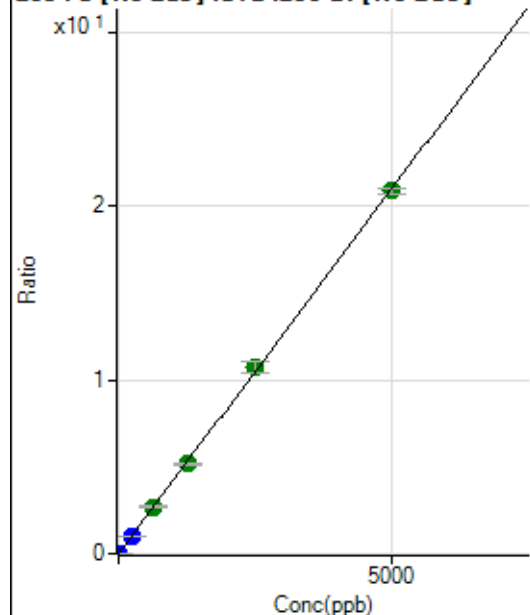
$$DL = 0.01322$$

$$BEC = 0.02703$$

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	387.79	0.0001	P	13.6
2	☐	1.000	0.931	12036.67	0.0040	P	1.4
3	☐	250.000	234.908	2882566.78	0.9846	P	1.8
4	☐	625.000	639.989	7372726.21	2.6823	A	4.8
5	☐	1250.000	1233.155	15075320.51	5.1682	A	2.2
6	☐	2500.000	2553.811	29812300.25	10.7030	A	5.8
7	☐	5000.000	4976.187	59691527.85	20.8551	A	1.3
8	☐			32060.93	0.0128	P	5.9

$$y = 0.0042 * x + 1.2810E-004$$

$$R = 0.9999$$

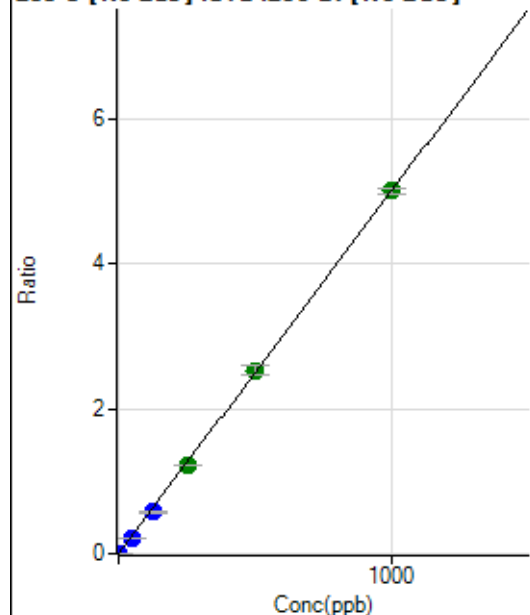
$$DL = 0.01244$$

$$BEC = 0.03057$$

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	17.78	0.0000	P	43.6
2	☐	1.000	0.863	12918.57	0.0043	P	2.7
3	☐	50.000	44.136	646889.26	0.2210	P	2.4
4	☐	125.000	116.234	1599601.00	0.5819	P	4.7
5	☐	250.000	243.670	3558584.64	1.2199	A	1.6
6	☐	500.000	505.714	7052819.75	2.5319	A	5.5
7	☐	1000.000	1000.115	14331240.07	5.0071	A	1.5
8	☐			3124.85	0.0012	P	7.4

$$y = 0.0050 * x + 5.8774E-006$$

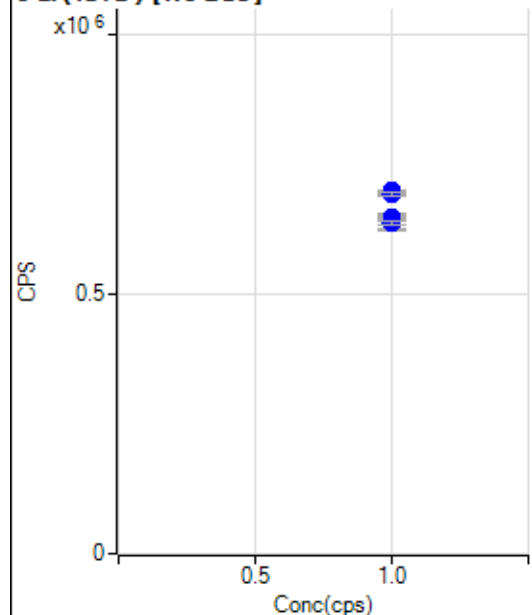
$$R = 0.9999$$

$$DL = 0.001536$$

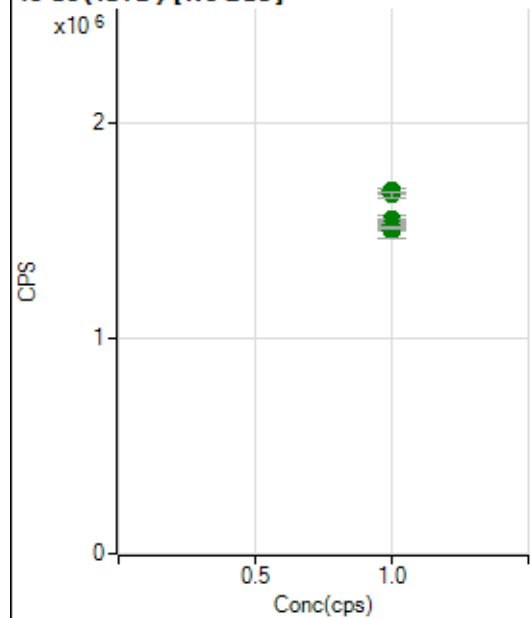
$$BEC = 0.001174$$

Weight: <None>

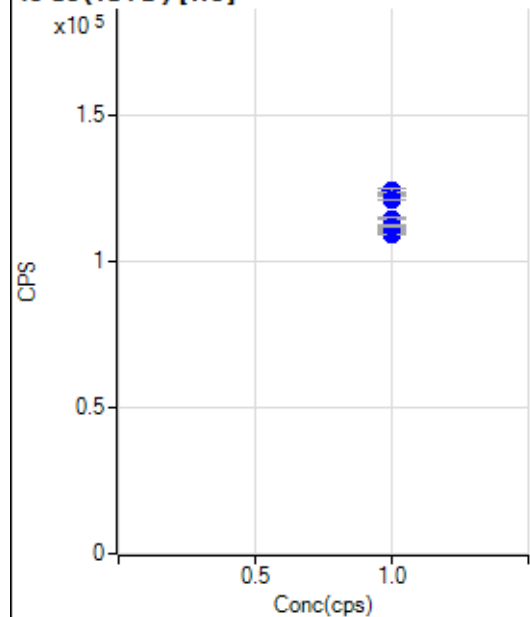
Min Conc: 0

6 Li (ISTD) [No Gas]

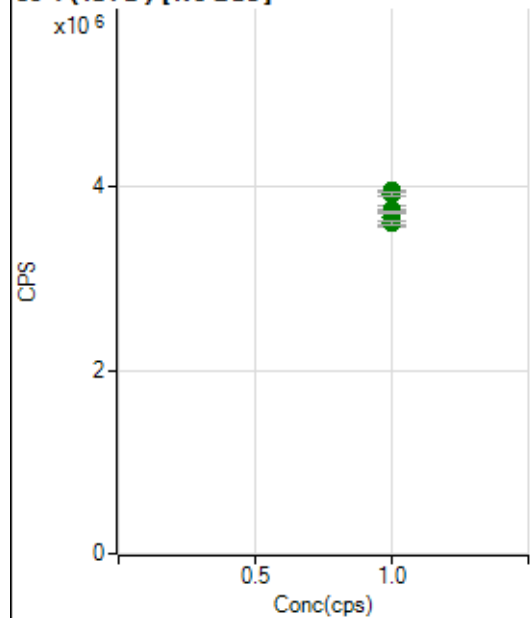
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		699370.06		P	0.5
2	☐	1.000		696484.22		P	0.6
3	☐	1.000		693571.43		P	1.0
4	☐	1.000		642422.45		P	4.8
5	☐	1.000		647072.96		P	1.5
6	☐	1.000		636240.58		P	4.1
7	☐	1.000		644123.14		P	0.5
8	☐	1.000		638139.63		P	1.2

45 Sc (ISTD) [No Gas]

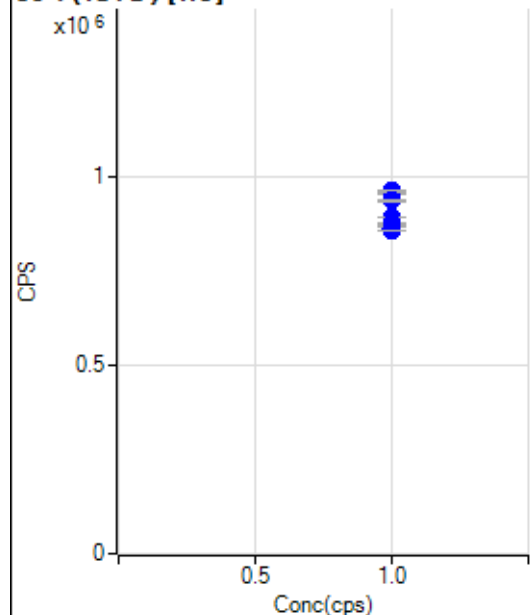
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1684583.29		A	1.0
2	☐	1.000		1674216.89		A	0.3
3	☐	1.000		1665682.79		A	1.4
4	☐	1.000		1538230.41		A	4.9
5	☐	1.000		1551134.33		A	0.6
6	☐	1.000		1496333.22		A	4.4
7	☐	1.000		1525722.86		A	1.0
8	☐	1.000		1511853.97		A	0.9

45 Sc (ISTD) [He]

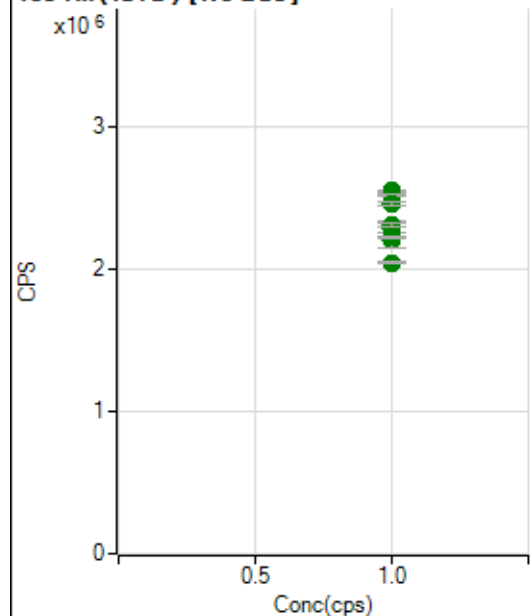
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		122541.06		P	0.6
2	☐	1.000		123898.91		P	1.0
3	☐	1.000		120868.06		P	0.4
4	☐	1.000		114527.31		P	0.7
5	☐	1.000		110734.87		P	0.9
6	☐	1.000		109524.03		P	0.5
7	☐	1.000		108982.41		P	0.5
8	☐	1.000		111867.72		P	0.8

89 Y (ISTD) [No Gas]

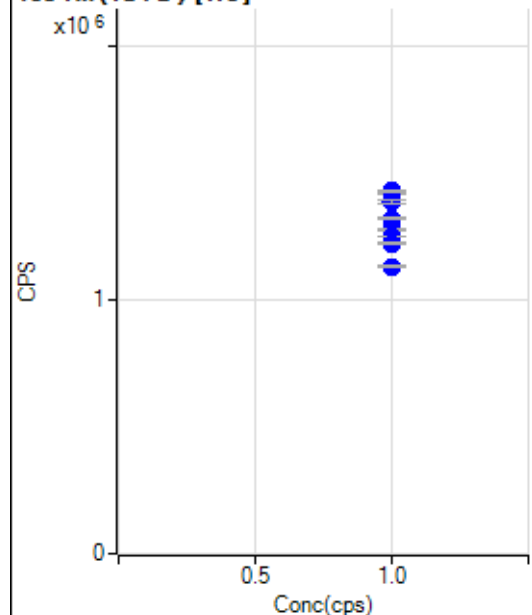
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3955653.10		A	0.4
2	☐	1.000		3937519.84		A	0.3
3	☐	1.000		3911751.71		A	1.1
4	☐	1.000		3675758.63		A	6.3
5	☐	1.000		3746617.96		A	0.2
6	☐	1.000		3635199.25		A	4.2
7	☐	1.000		3724219.01		A	0.6
8	☐	1.000		3610583.18		A	0.8

89 Y (ISTD) [He]

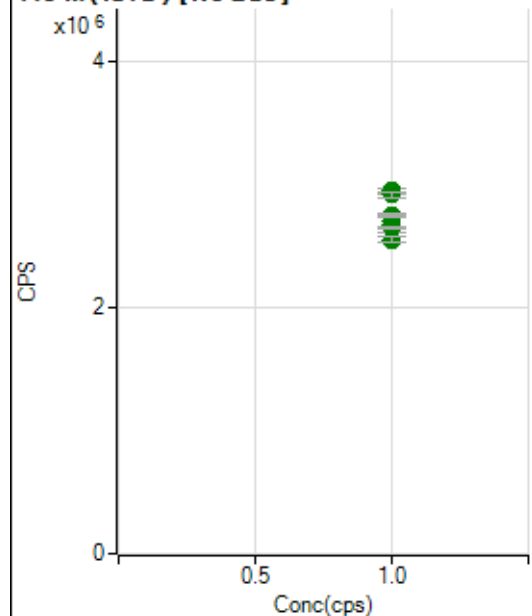
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		955282.03		P	0.5
2	☐	1.000		960689.27		P	0.7
3	☐	1.000		934783.42		P	0.9
4	☐	1.000		892414.32		P	0.3
5	☐	1.000		874991.10		P	0.5
6	☐	1.000		869456.91		P	0.3
7	☐	1.000		861015.91		P	0.7
8	☐	1.000		855464.32		P	0.5

103 Rh (ISTD) [No Gas]

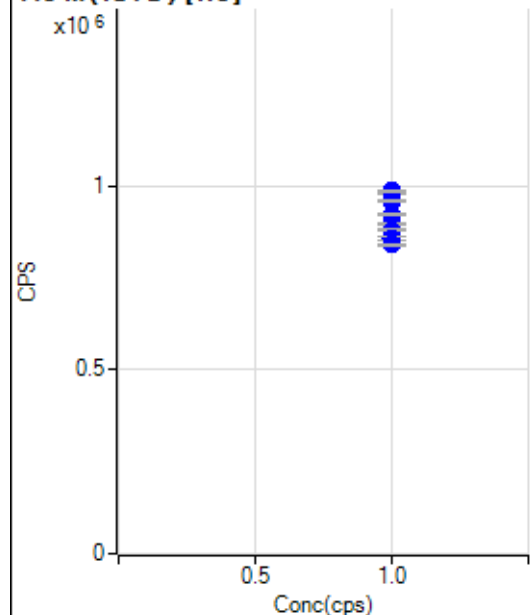
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2548481.40		A	0.7
2	☐	1.000		2522421.21		A	0.6
3	☐	1.000		2456960.82		A	1.1
4	☐	1.000		2281390.50		A	4.8
5	☐	1.000		2307196.72		A	1.2
6	☐	1.000		2205015.88		A	4.6
7	☐	1.000		2227302.62		A	0.7
8	☐	1.000		2044765.86		A	1.1

103 Rh (ISTD) [He]

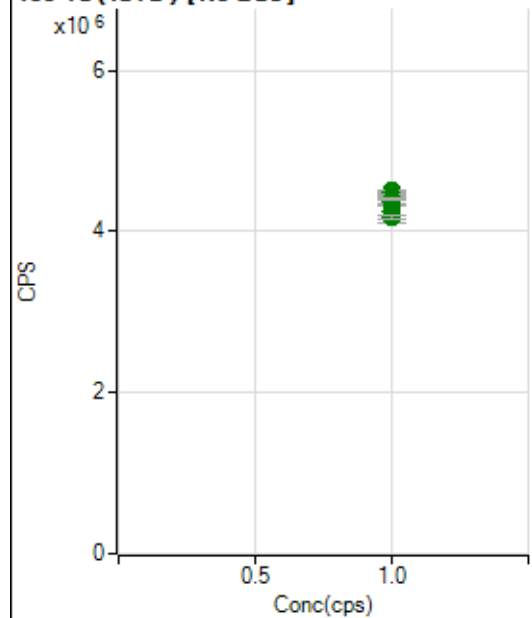
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1425086.32		P	0.6
2	☐	1.000		1431963.42		P	0.4
3	☐	1.000		1387626.44		P	0.9
4	☐	1.000		1324086.95		P	0.1
5	☐	1.000		1280687.04		P	0.4
6	☐	1.000		1254506.64		P	0.1
7	☐	1.000		1223106.34		P	0.7
8	☐	1.000		1131507.35		P	0.6

115 In (ISTD) [No Gas]

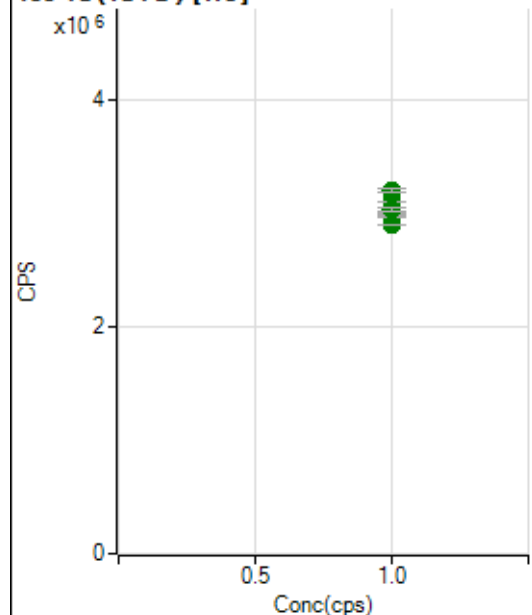
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2948293.52		A	1.1
2	☐	1.000		2931871.85		A	0.7
3	☐	1.000		2914779.23		A	1.9
4	☐	1.000		2699963.24		A	4.9
5	☐	1.000		2756833.80		A	1.0
6	☐	1.000		2672997.55		A	4.5
7	☐	1.000		2652661.63		A	0.5
8	☐	1.000		2554047.10		A	1.4

115 In (ISTD) [He]

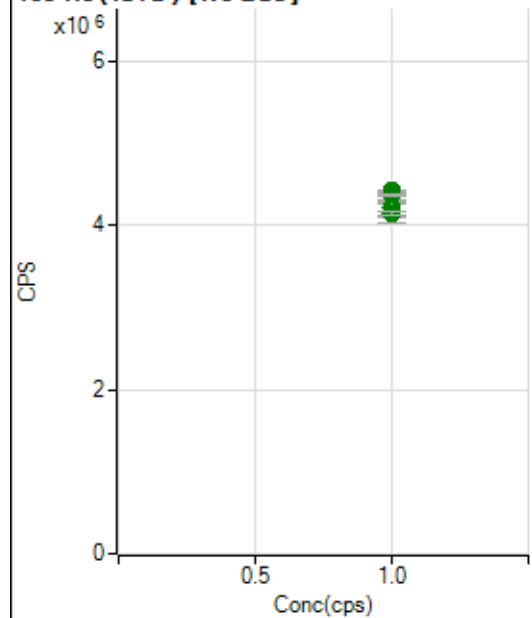
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		980818.94		P	0.5
2	☐	1.000		987329.06		P	0.2
3	☐	1.000		959438.85		P	0.6
4	☐	1.000		922532.52		P	0.3
5	☐	1.000		896396.82		P	0.5
6	☐	1.000		881106.44		P	0.2
7	☐	1.000		858953.56		P	0.9
8	☐	1.000		840429.99		P	0.3

159 Tb (ISTD) [No Gas]

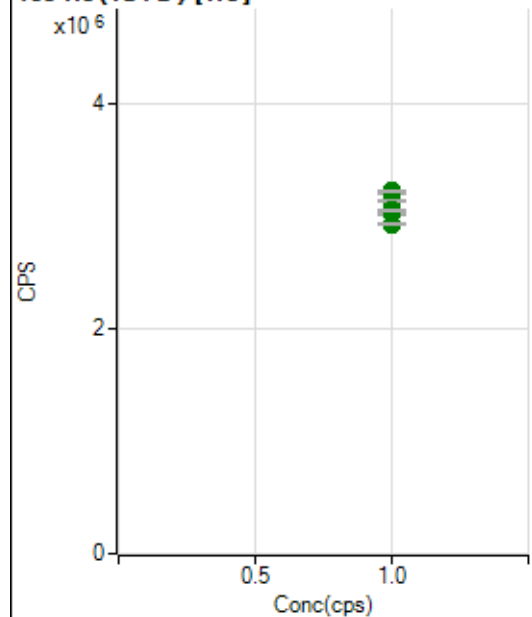
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4503062.54		A	0.2
2	☐	1.000		4487133.37		A	1.0
3	☐	1.000		4451187.88		A	0.7
4	☐	1.000		4207331.05		A	5.0
5	☐	1.000		4370252.75		A	1.2
6	☐	1.000		4253791.60		A	4.3
7	☐	1.000		4403100.01		A	0.7
8	☐	1.000		4172725.04		A	1.5

159 Tb (ISTD) [He]

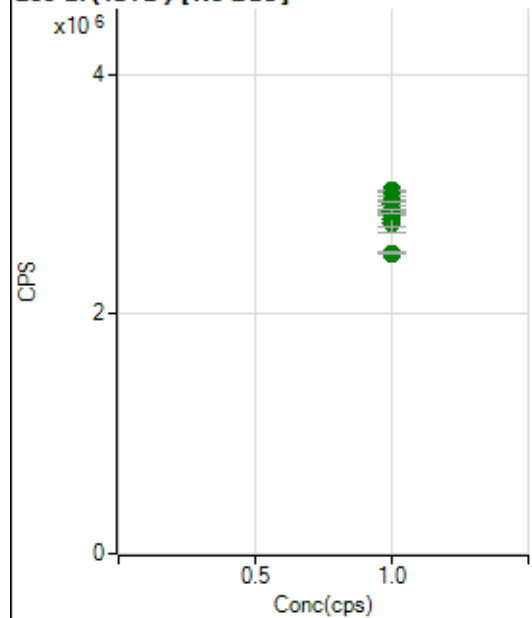
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3188484.81		A	0.1
2	☐	1.000		3194374.47		A	1.0
3	☐	1.000		3103118.25		A	0.2
4	☐	1.000		3030225.93		A	0.8
5	☐	1.000		3001772.52		A	0.7
6	☐	1.000		2976636.38		A	0.4
7	☐	1.000		3032936.07		A	1.0
8	☐	1.000		2889373.43		A	0.2

165 Ho (ISTD) [No Gas]

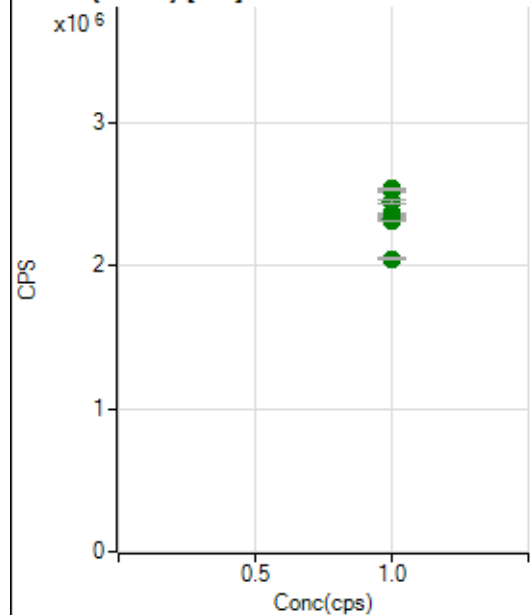
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4420798.54		A	0.8
2	☐	1.000		4388525.01		A	0.2
3	☐	1.000		4382939.45		A	1.0
4	☐	1.000		4143247.72		A	5.4
5	☐	1.000		4293985.14		A	0.5
6	☐	1.000		4208945.18		A	4.7
7	☐	1.000		4370840.87		A	0.5
8	☐	1.000		4137465.25		A	1.2

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3215394.26		A	1.0
2	☐	1.000		3221894.74		A	0.9
3	☐	1.000		3130919.78		A	0.7
4	☐	1.000		3023074.05		A	0.7
5	☐	1.000		3020583.11		A	1.0
6	☐	1.000		3032580.09		A	1.2
7	☐	1.000		3049381.03		A	0.5
8	☐	1.000		2927015.58		A	0.7

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3026904.16		A	0.4
2	☐	1.000		2986799.47		A	0.3
3	☐	1.000		2928005.51		A	1.2
4	☐	1.000		2753268.83		A	5.2
5	☐	1.000		2917231.87		A	1.1
6	☐	1.000		2789945.67		A	4.2
7	☐	1.000		2862433.88		A	1.1
8	☐	1.000		2505643.45		A	0.4

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2521708.21		A	0.5
2	☐	1.000		2535144.39		A	0.4
3	☐	1.000		2451580.21		A	1.1
4	☐	1.000		2362369.65		A	0.2
5	☐	1.000		2341602.22		A	1.0
6	☐	1.000		2325100.21		A	1.1
7	☐	1.000		2310197.12		A	0.3
8	☐	1.000		2044686.45		A	0.7

US EPA Tune Check Report

Operator Name Jaswal

Acq/Data Batch D:\Agilent\ICPMH\1\DATA\IP7070124-MS.b

Acq. Date-Time 2024-07-03 10:18:00

Report Comment ---

Instrument Name G8403A JP14410463

[No Gas]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
9		3704	37038.07			1.436	5.000
24		36553	365528.31			1.322	5.000
25		4755	47549.45			1.191	5.000
26		5515	55145.07			1.525	5.000
59		31425	314254.59			1.412	5.000
113		4445	44447.48			1.721	5.000
115		57143	571427.83			1.575	5.000
206		16562	165615.47			1.517	5.000
207		15243	152432.01			1.245	5.000
208		36033	360327.60			1.509	5.000
220		0	0.30			91.287	

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

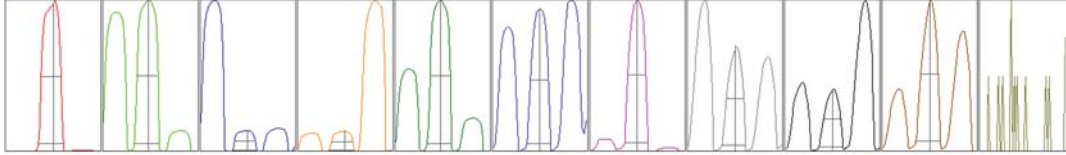
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	3735	3706	3739	3611	3727
24	36799	36557	36740	35725	36944
25	4771	4769	4769	4658	4808
26	5577	5497	5568	5375	5556
59	31571	31471	31700	30654	31731
113	4497	4440	4489	4314	4483
115	57542	57510	57645	55537	57480
206	16690	16595	16626	16128	16769
207	15314	15269	15357	14911	15365
208	36343	35984	36299	35108	36430

US EPA Tune Check Report

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

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	6197.60	9.05	8.90 - 9.10	
24	55788.96	23.95	23.90 - 24.10	
25	7320.58	25.00	24.90 - 25.10	
26	8256.24	26.00	25.90 - 26.10	
59	50775.86	58.95	58.90 - 59.10	
113	8125.02	113.00	112.90 - 113.10	
115	104903.73	115.00	114.90 - 115.10	
206	31666.94	206.05	205.90 - 206.10	
207	28671.40	207.05	206.90 - 207.10	
208	69050.23	208.05	207.90 - 208.10	
220			-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.61	0.782	0.900	
24	0.67	0.790	0.900	
25	0.67	0.776	0.900	
26	0.67	0.790	0.900	
59	0.64	0.782	0.900	
113	0.56	0.752	0.900	
115	0.56	0.740	0.900	
206	0.54	0.753	0.900	
207	0.54	0.769	0.900	
208	0.54	0.774	0.900	
220				

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode --- Nebulizer Gas 0.82 L/min Dilution Gas 0.40 L/min

US EPA Tune Check Report

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

Lens Parameters

Extract 1	0.0 V	Omega Lens	9.0 V	Deflect	13.2 V
Extract 2	-110.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-60 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	---	OctP RF	140 V		

QP Parameters

Mass Gain	134	Axis Gain	0.9973	QP Bias	-3.0 V
Mass Offset	130	Axis Offset	0.15		

Hardware Settings

Torch

Torch H	-0.4 mm	Torch V	0.5 mm
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EM

Discriminator	4.7 mV	Analog HV	2311 V	Pulse HV	1401 V
---------------	--------	-----------	--------	----------	--------

[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		8436	84360.69			0.576	
89		12634	126344.60			0.811	
205		19359	193589.79			1.003	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	8502	8451	8407	8374	8447
89	12771	12675	12523	12542	12661
205	19609	19514	19261	19143	19268

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

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

Lens Parameters

Extract 1	0.0 V	Omega Lens	10.1 V	Deflect	2.6 V
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US EPA Tune Check Report

Extract 2	-120.0 V	Cell Entrance	-40 V	Plate Bias	-60 V
Omega Bias	-70 V	Cell Exit	-60 V		

Cell Parameters

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

QP Parameters

Mass Gain	134	Axis Gain	0.9973	QP Bias	-13.0 V
Mass Offset	130	Axis Offset	0.15		

Hardware Settings

Torch

Torch H	-0.4 mm	Torch V	0.5 mm
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EM

Discriminator	4.7 mV	Analog HV	2311 V	Pulse HV	1401 V
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