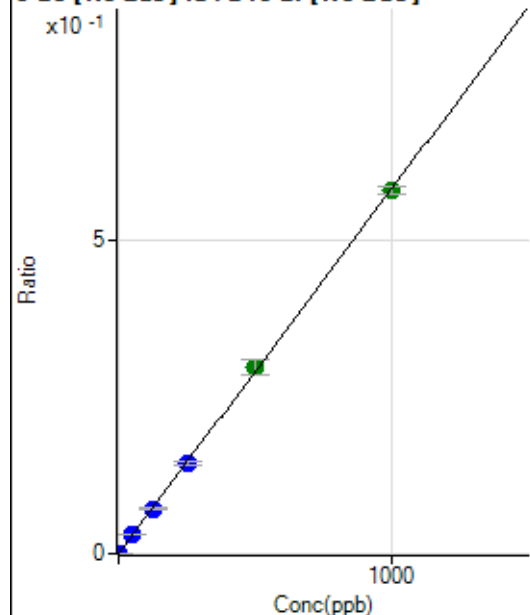


Calibration for 006CALS.d

Batch Folder: D:\Agilent\ICPMH\1\DATA\P8041422-MS1.b\
 Analysis File: P8041422-MS1.batch.bin
 DA Date-Time: 2022-04-14 16:34:19
 Calibration Title:
 Calibration Method: External Calibration
 VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	003CALB.d	S00	2022-04-14 15:35:06
2	005CALS.d	S02	2022-04-14 15:41:15
3	006CALS.d	S03	2022-04-14 15:44:22
4	007CALS.d	S04	2022-04-14 15:47:25
5	008CALS.d	S05	2022-04-14 15:50:31
6	009CALS.d	S06	2022-04-14 15:53:35
7	010CALS.d	S07	2022-04-14 15:56:40
8	011CALS.d	S08	2022-04-14 15:59:44

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	70.66	0.0000	P	3.0
2	☐	1.000	1.089	3730.41	0.0006	P	2.3
3	☐	50.000	51.348	177389.74	0.0299	P	0.3
4	☐	125.000	123.085	421331.34	0.0717	P	1.8
5	☐	250.000	246.784	853730.34	0.1438	P	3.4
6	☐	500.000	511.525	1776826.76	0.2981	A	7.5
7	☐	1000.000	995.213	3515570.35	0.5799	A	2.2
8	☐			573.90	0.0001	P	13.4

$$y = 5.8268\text{E-}004 * x + 1.1741\text{E-}005$$

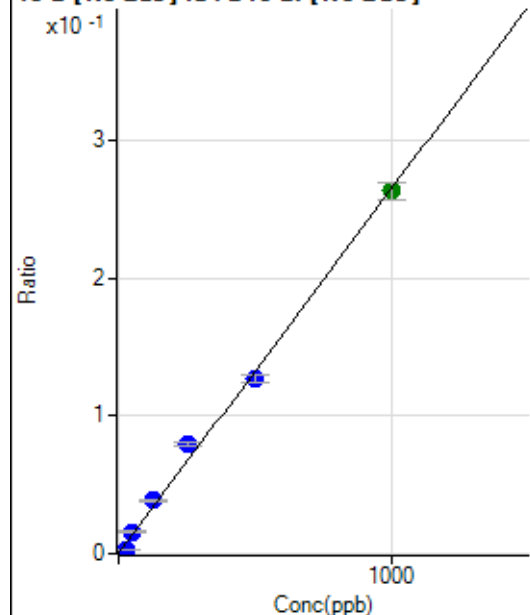
$$R = 0.9999$$

$$DL = 0.001813$$

$$BEC = 0.02015$$

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	1499.12	0.0002	P	5.1
2	☐	25.000	7.275	12540.95	0.0022	P	3.0
3	☐	50.000	59.607	94849.36	0.0160	P	4.1
4	☐	125.000	144.123	225316.02	0.0384	P	4.4
5	☐	250.000	301.428	474773.76	0.0799	P	3.2
6	☐	500.000	481.377	761356.10	0.1275	P	4.4
7	☐	1000.000	994.027	1594389.36	0.2630	A	4.8
8	☐			166992.57	0.0305	P	12.7

$$y = 2.6436\text{E-}004 * x + 2.4925\text{E-}004$$

$$R = 0.9978$$

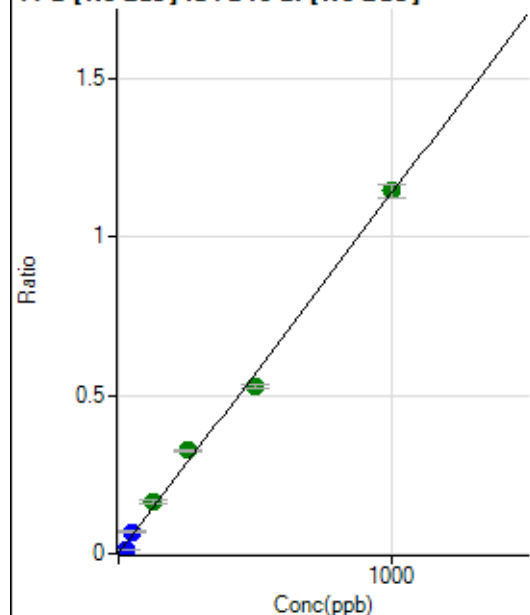
$$DL = 0.1449$$

$$BEC = 0.9428$$

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	6592.87	0.0011	P	4.0
2	☐	25.000	7.368	54724.38	0.0095	P	5.2
3	☐	50.000	60.214	412422.50	0.0696	P	4.6
4	☐	125.000	141.904	954748.36	0.1625	A	6.3
5	☐	250.000	286.368	1941408.36	0.3269	A	1.4
6	☐	500.000	463.856	3159950.59	0.5289	A	1.5
7	☐	1000.000	1006.797	6950287.38	1.1466	A	3.9
8	☐			720703.66	0.1316	P	13.2

$$y = 0.0011 * x + 0.0011$$

$$R = 0.9979$$

$$DL = 0.1163$$

$$BEC = 0.9629$$

Weight: <None>

Min Conc: 0

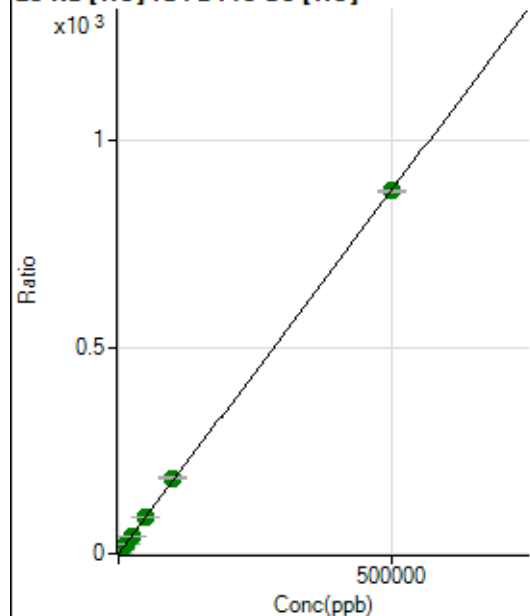
12 C [No Gas] No available calibration points



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			6006047.62		A	1.3
2	☐			6325426.53		A	1.8
3	☐			6588982.61		A	2.1
4	☐			6600788.21		A	2.2
5	☐			6738235.91		A	1.2
6	☐			6978196.94		A	1.7
7	☐			8003460.34		A	2.6
8	☐			6845895.64		A	2.0

12 C [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			59641.22		P	0.7
2	☐			63883.84		P	1.9
3	☐			67940.67		P	0.4
4	☐			68200.51		P	2.8
5	☐			70209.67		P	1.7
6	☐			75834.92		P	1.9
7	☐			86809.72		P	2.3
8	☐			74704.17		P	1.6

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	13456.55	0.0775	P	2.8
2	☐	500.000	452.229	151716.75	0.8736	P	1.4
3	☐	5000.000	5395.061	1600955.90	9.5751	A	5.2
4	☐	12500.000	12210.165	3729399.17	21.5726	A	1.9
5	☐	25000.000	24272.998	7456519.96	42.8083	A	1.8
6	☐	50000.000	49615.717	15506716.14	87.4224	A	1.4
7	☐	100000.00	103752.66	31587410.78	182.7265	A	2.5
8	☐	500000.00	499327.58	151924995.0	879.1077	A	0.7

$$y = 0.0018 * x + 0.0775$$

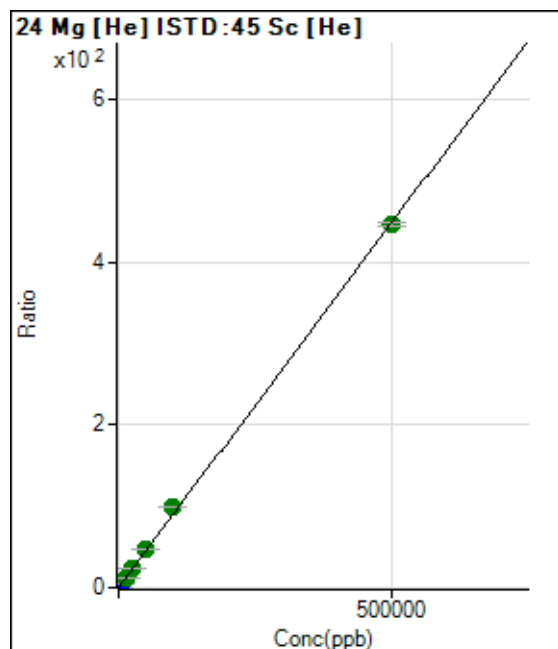
$$R = 1.0000$$

$$DL = 3.715$$

$$BEC = 44$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	383.35	0.0022	P	21.2
2	☐	500.000	506.914	79207.89	0.4561	P	2.7
3	☐	5000.000	5536.994	828804.93	4.9602	P	7.2
4	☐	12500.000	13262.281	2053380.49	11.8776	A	2.8
5	☐	25000.000	25727.780	4012663.76	23.0396	A	1.7
6	☐	50000.000	53310.462	8467887.26	47.7379	A	0.7
7	☐	100000.00	110698.22	17135223.47	99.1246	A	1.7
8	☐	500000.00	497468.48	76980451.72	445.4497	A	1.0

$$y = 8.9543\text{E-}004 * x + 0.0022$$

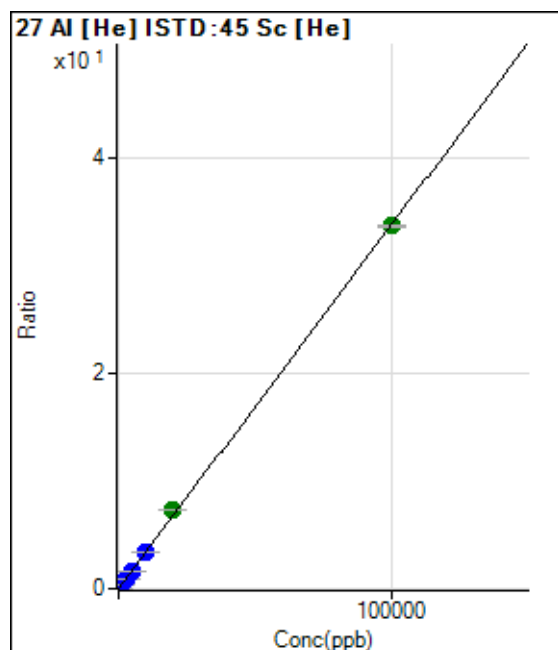
$$R = 0.9997$$

$$DL = 1.57$$

$$BEC = 2.469$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	90.41	0.0005	P	17.5
2	☐	20.000	18.942	1204.49	0.0069	P	2.3
3	☐	1000.000	1073.112	60826.49	0.3638	P	5.5
4	☐	2500.000	2438.381	142812.87	0.8260	P	0.7
5	☐	5000.000	4835.359	285231.23	1.6376	P	1.0
6	☐	10000.000	9890.194	594019.08	3.3489	P	1.2
7	☐	20000.000	21792.734	1275477.77	7.3786	A	0.8
8	☐	100000.00	99661.475	5831258.29	33.7415	A	0.5

$$y = 3.3856\text{E-}004 * x + 5.1961\text{E-}004$$

$$R = 0.9998$$

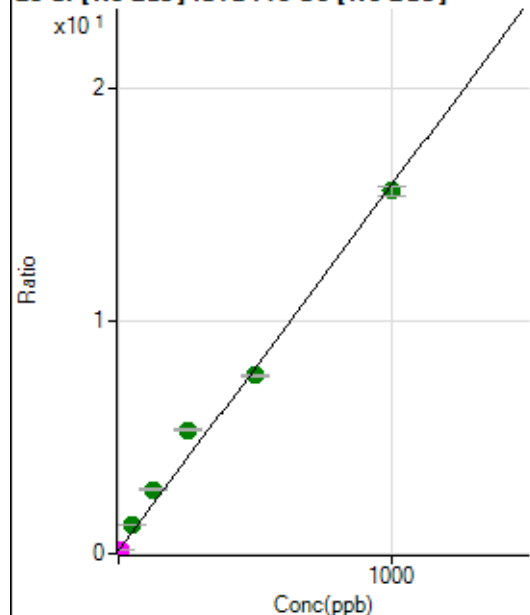
$$DL = 0.8067$$

$$BEC = 1.535$$

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	867585.86	0.1260	P	1.6
2	☐	10.000	0.398	894399.65	0.1323	M	1.9
3	☐	50.000	70.884	8431112.43	1.2414	A	0.8
4	☐	125.000	167.612	18480174.03	2.7635	A	0.7
5	☐	250.000	329.218	35229742.80	5.3064	A	1.9
6	☐	500.000	479.511	52610191.80	7.6714	A	1.6
7	☐	1000.000	984.166	111358709.4	15.6125	A	2.9
8	☐			1208092.50	0.1828	A	2.3

$$y = 0.0157 * x + 0.1260$$

$$R = 0.9953$$

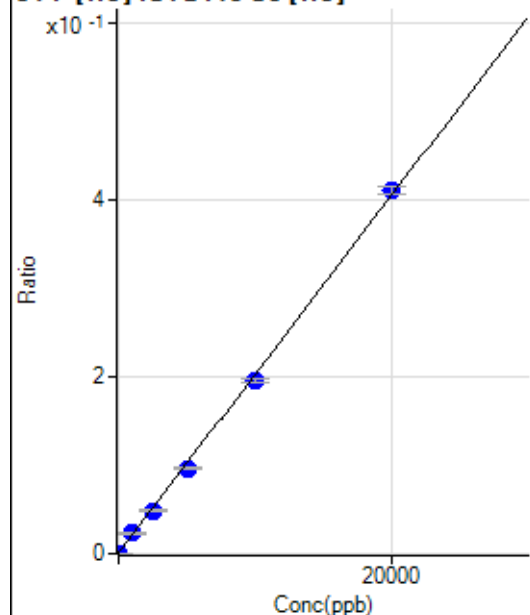
$$DL = 0.3945$$

$$BEC = 8.007$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	-5.977	119.45	0.0007	P	38.9
2	☐	0.000	5.977	161.12	0.0009	P	15.2
3	☐	1000.000	1096.957	3842.28	0.0230	P	8.6
4	☐	2500.000	2375.610	8447.14	0.0489	P	3.6
5	☐	5000.000	4722.217	16779.51	0.0963	P	1.6
6	☐	10000.000	9659.542	34798.01	0.1962	P	1.9
7	☐	20000.000	20250.376	70944.32	0.4104	P	2.0
8	☐			141.67	0.0008	P	15.5

$$y = 2.0226E-005 * x + 8.0627E-004$$

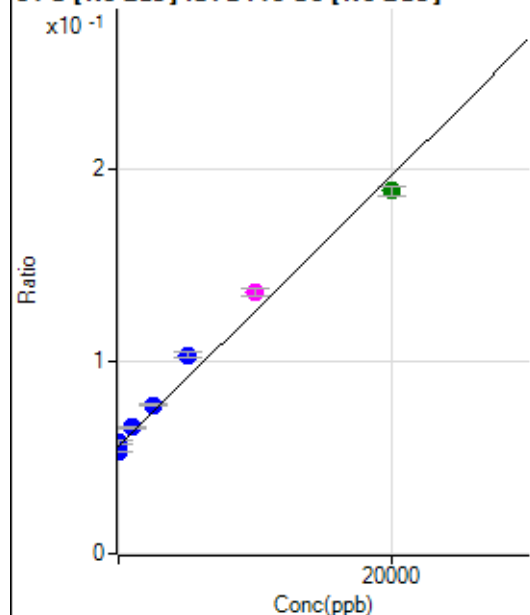
$$R = 0.9996$$

$$DL = 30.25$$

$$BEC = 39.86$$

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	-361.918	365571.76	0.0531	P	0.9
2	☐	0.000	361.918	393264.09	0.0582	P	2.9
3	☐	1000.000	1397.656	444777.17	0.0655	P	2.3
4	☐	2500.000	3028.108	514816.53	0.0770	P	1.0
5	☐	5000.000	6724.022	684035.95	0.1030	P	2.7
6	☐	10000.000	11313.329	929264.26	0.1354	M	3.1
7	☐	20000.000	18826.433	1343772.76	0.1884	A	2.3
8	☐			337028.11	0.0510	P	1.1

$$y = 7.0510\text{E-}006 * x + 0.0556$$

$$R = 0.9916$$

$$DL = 457.4$$

$$BEC = 7891$$

Weight: <None>

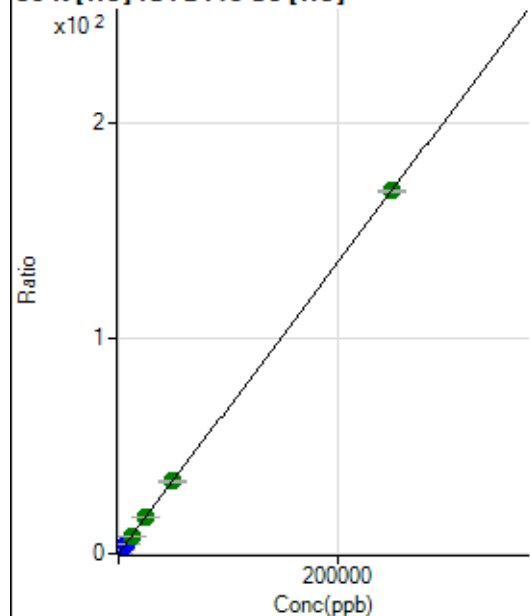
Min Conc: 0

35 Cl [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			458493.45		P	0.3
2	☐			380757.67		P	1.4
3	☐			362642.98		P	0.7
4	☐			362894.84		P	2.2
5	☐			314839.08		P	1.8
6	☐			348948.69		P	10.4
7	☐			311896.80		P	0.6
8	☐			275291.22		P	0.7

35 Cl [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2894.81		P	4.2
2	☐			2436.38		P	1.1
3	☐			2364.14		P	4.0
4	☐			2180.78		P	0.8
5	☐			1916.85		P	9.1
6	☐			1894.62		P	8.4
7	☐			1972.41		P	7.8
8	☐			1769.60		P	4.6

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	17316.36	0.0997	P	0.6
2	☐	500.000	480.219	73504.43	0.4232	P	1.4
3	☐	2500.000	2629.579	312697.05	1.8711	P	6.5
4	☐	6250.000	5866.777	700541.58	4.0519	P	1.3
5	☐	12500.000	12010.873	1426669.11	8.1909	A	1.6
6	☐	25000.000	24924.708	2996059.44	16.8904	A	1.3
7	☐	50000.000	49958.179	5835067.40	33.7545	A	2.9
8	☐	250000.00	250048.67	29128598.22	168.5474	A	0.6

$$y = 6.7366E-004 * x + 0.0997$$

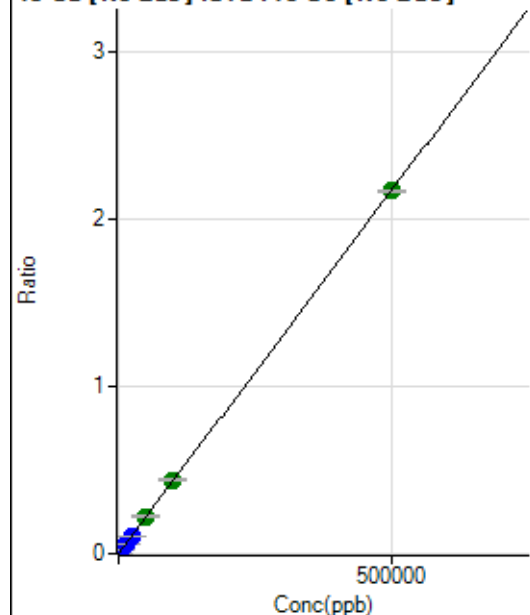
$$R = 1.0000$$

$$DL = 2.526$$

$$BEC = 148$$

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	176.23	0.0000	P	4.6
2	☐	500.000	483.772	14378.33	0.0021	P	2.0
3	☐	5000.000	5095.803	150507.93	0.0222	P	1.5
4	☐	12500.000	12412.885	360755.77	0.0539	P	2.3
5	☐	25000.000	24412.147	704098.22	0.1061	P	2.8
6	☐	50000.000	51455.509	1533336.48	0.2235	A	1.4
7	☐	100000.00	101571.37	3147768.33	0.4412	A	2.1
8	☐	500000.00	499570.80	14345082.20	2.1701	A	0.8

$$y = 4.3440\text{E-}006 * x + 2.5596\text{E-}005$$

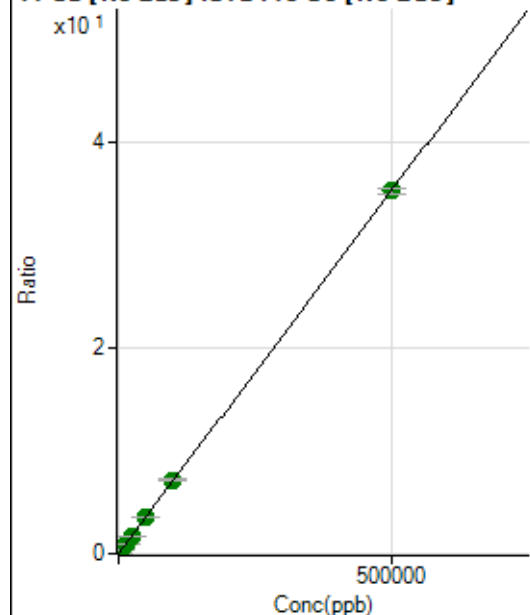
$$R = 1.0000$$

$$DL = 0.8115$$

$$BEC = 5.892$$

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	11374.42	0.0017	P	0.3
2	☐	500.000	479.664	239776.66	0.0355	P	2.2
3	☐	5000.000	5120.524	2463449.70	0.3627	A	1.9
4	☐	12500.000	12290.624	5806567.52	0.8683	A	1.9
5	☐	25000.000	24231.437	11354348.43	1.7103	A	1.9
6	☐	50000.000	50546.365	24456187.60	3.5659	A	1.0
7	☐	100000.00	101124.35	50873162.60	7.1323	A	3.3
8	☐	500000.00	499762.97	232948910.1	35.2420	A	1.7

$$y = 7.0514\text{E-}005 * x + 0.0017$$

$$R = 1.0000$$

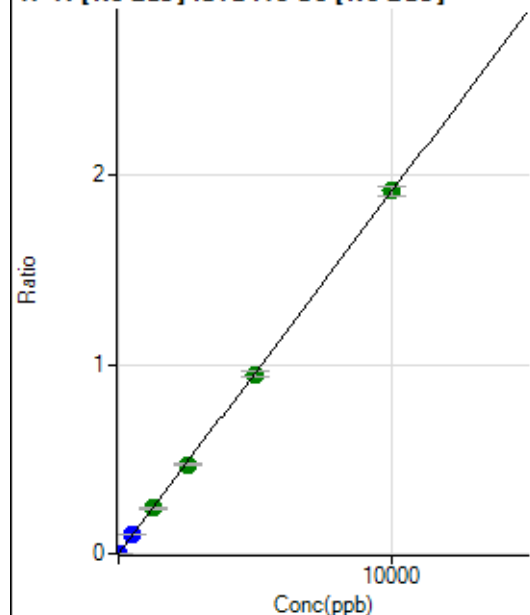
$$DL = 0.2414$$

$$BEC = 23.42$$

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	291.68	0.0000	P	23.3
2	☐	5.000	4.979	6729.54	0.0010	P	3.5
3	☐	500.000	518.812	675085.13	0.0994	P	1.9
4	☐	1250.000	1254.571	1607063.16	0.2403	A	2.1
5	☐	2500.000	2466.644	3136211.66	0.4724	A	2.4
6	☐	5000.000	4965.833	6521279.62	0.9511	A	2.7
7	☐	10000.000	10023.911	13695643.36	1.9198	A	2.8
8	☐			2486.40	0.0004	P	8.9

$$y = 1.9151E-004 * x + 4.2276E-005$$

$$R = 1.0000$$

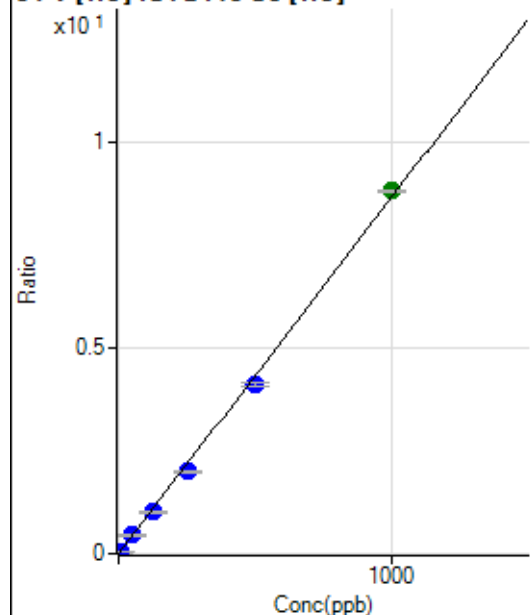
$$DL = 0.1546$$

$$BEC = 0.2207$$

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	11.11	0.0001	P	35.5
2	☐	5.000	4.762	7167.42	0.0413	P	0.4
3	☐	50.000	52.011	75208.68	0.4501	P	6.7
4	☐	125.000	116.093	173659.52	1.0045	P	2.2
5	☐	250.000	230.377	347185.09	1.9934	P	1.2
6	☐	500.000	475.169	729263.66	4.1114	P	2.1
7	☐	1000.000	1018.335	1523089.92	8.8111	A	0.7
8	☐			358.90	0.0021	P	7.7

$$y = 0.0087 * x + 6.4139E-005$$

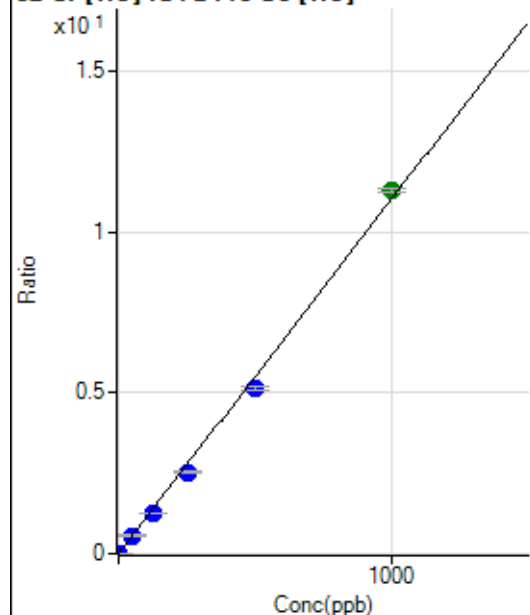
$$R = 0.9993$$

$$DL = 0.007894$$

$$BEC = 0.007413$$

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	661.13	0.0038	P	7.9
2	☐	2.000	1.817	4137.31	0.0238	P	1.0
3	☐	50.000	51.186	94891.32	0.5676	P	5.6
4	☐	125.000	113.800	217370.13	1.2573	P	2.2
5	☐	250.000	229.007	440012.11	2.5264	P	1.4
6	☐	500.000	466.238	911660.38	5.1395	P	1.6
7	☐	1000.000	1023.470	1949457.28	11.2776	A	1.2
8	☐			16662.07	0.0964	P	4.4

$$y = 0.0110 * x + 0.0038$$

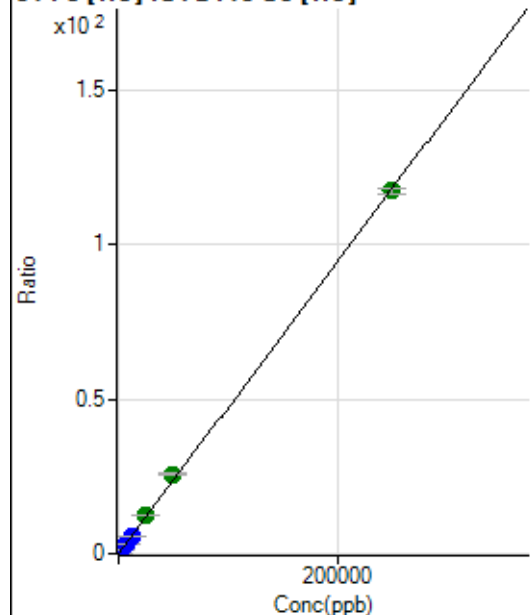
$$R = 0.9989$$

$$DL = 0.08154$$

$$BEC = 0.3453$$

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	629.66	0.0036	P	14.8
2	☐	50.000	49.128	4647.14	0.0268	P	2.6
3	☐	2500.000	2782.564	219666.76	1.3140	P	5.5
4	☐	6250.000	6241.734	508786.08	2.9429	P	2.0
5	☐	12500.000	12366.741	1014847.46	5.8272	P	2.2
6	☐	25000.000	26413.711	2206845.38	12.4421	A	3.3
7	☐	50000.000	54369.285	4426335.72	25.6066	A	1.8
8	☐	250000.00	248988.81	20263584.48	117.2546	A	1.8

$$y = 4.7091E-004 * x + 0.0036$$

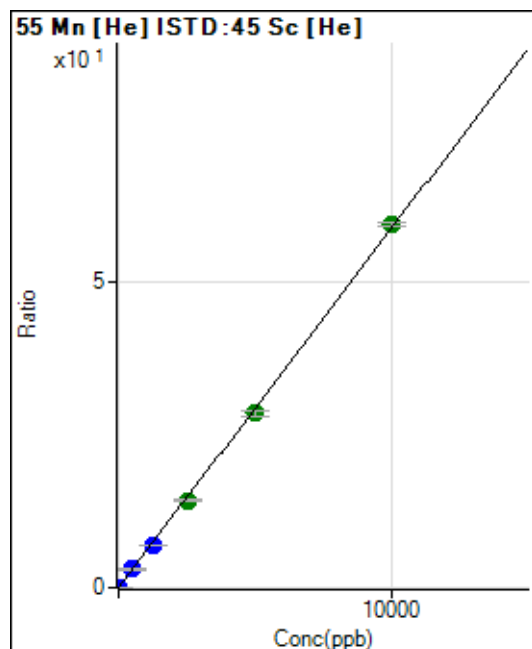
$$R = 0.9998$$

$$DL = 3.415$$

$$BEC = 7.691$$

Weight: <None>

Min Conc: 0



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	88.89	0.0005	P	16.3
2	☐	1.000	0.933	1038.94	0.0060	P	0.3
3	☐	500.000	521.328	511289.67	3.0585	P	5.7
4	☐	1250.000	1177.823	1194557.35	6.9094	P	1.3
5	☐	2500.000	2434.620	2487799.46	14.2816	A	0.9
6	☐	5000.000	4851.059	5047245.30	28.4560	A	3.0
7	☐	10000.000	10098.771	10240128.94	59.2381	A	1.1
8	☐			5514.45	0.0319	P	5.1

$$y = 0.0059 * x + 5.1093E-004$$

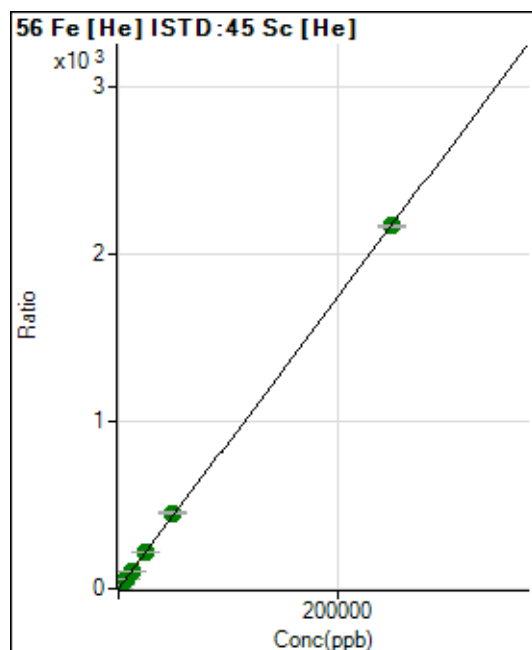
$$R = 0.9998$$

$$DL = 0.04271$$

$$BEC = 0.0871$$

Weight: <None>

Min Conc: 0



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	4250.71	0.0245	P	4.0
2	☐	50.000	50.106	79909.72	0.4601	P	1.9
3	☐	2500.000	2753.216	4007922.22	23.9600	A	4.1
4	☐	6250.000	6155.622	9256450.21	53.5394	A	1.0
5	☐	12500.000	12308.075	18641608.75	107.0267	A	0.7
6	☐	25000.000	24714.490	38116134.65	214.8839	A	0.4
7	☐	50000.000	52048.534	78222291.56	452.5169	A	1.3
8	☐	250000.00	249628.26	375048941.7	2,170.208	A	0.6

$$y = 0.0087 * x + 0.0245$$

$$R = 1.0000$$

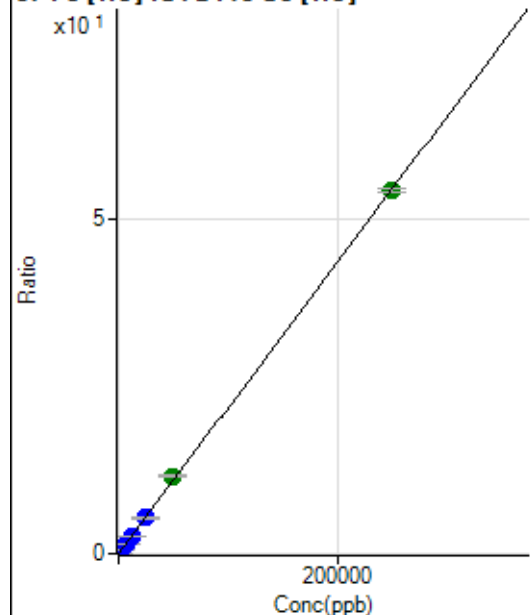
$$DL = 0.3409$$

$$BEC = 2.815$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	181.49	0.0010	P	24.2
2	☐	50.000	52.194	2153.90	0.0124	P	3.7
3	☐	2500.000	2705.910	98548.35	0.5897	P	6.6
4	☐	6250.000	6082.086	228939.03	1.3242	P	2.0
5	☐	12500.000	12073.167	457701.85	2.6276	P	0.3
6	☐	25000.000	24516.432	946261.88	5.3347	P	1.2
7	☐	50000.000	53434.308	2009647.86	11.6259	A	1.9
8	☐	250000.00	249384.97	9376732.62	54.2559	A	1.1

$$y = 2.1755E-004 * x + 0.0010$$

$$R = 0.9999$$

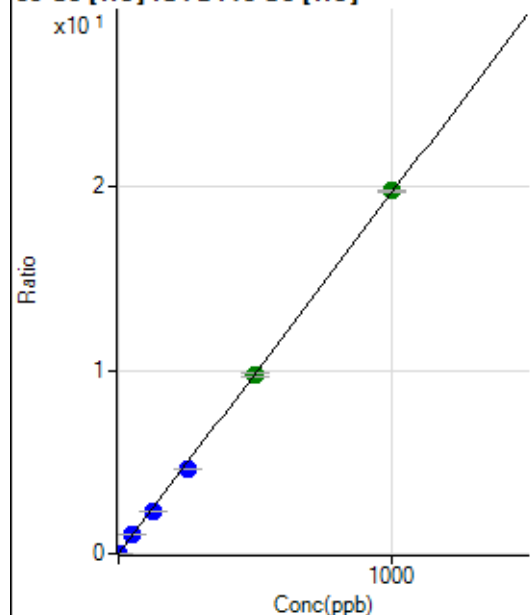
$$DL = 3.497$$

$$BEC = 4.812$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	63.33	0.0004	P	40.2
2	☐	1.000	1.000	3472.69	0.0200	P	1.6
3	☐	50.000	52.324	171841.66	1.0279	P	5.5
4	☐	125.000	117.714	399706.84	2.3120	P	1.5
5	☐	250.000	233.286	798004.98	4.5816	P	0.6
6	☐	500.000	496.490	1729460.30	9.7503	A	1.3
7	☐	1000.000	1006.728	3417489.77	19.7702	A	0.8
8	☐			9016.28	0.0522	P	1.2

$$y = 0.0196 * x + 3.6525E-004$$

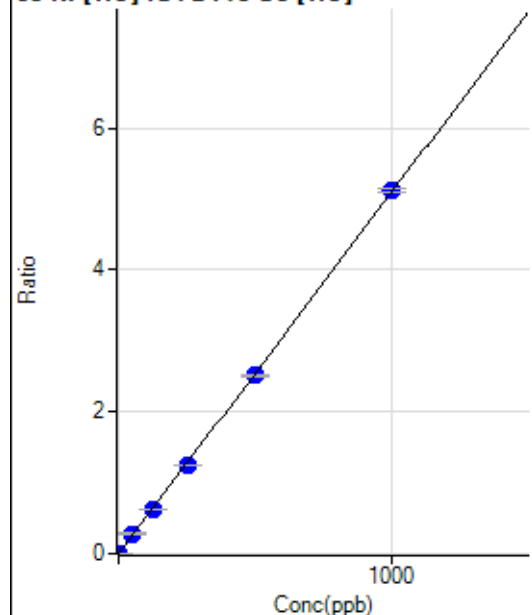
$$R = 0.9998$$

$$DL = 0.02241$$

$$BEC = 0.0186$$

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	64.44	0.0004	P	23.8
2	☐	1.000	1.056	996.71	0.0057	P	10.2
3	☐	50.000	55.201	47026.53	0.2814	P	6.2
4	☐	125.000	123.339	108614.20	0.6282	P	1.5
5	☐	250.000	243.525	215992.23	1.2400	P	0.1
6	☐	500.000	494.077	446174.89	2.5155	P	1.4
7	☐	1000.000	1004.528	883989.77	5.1139	P	1.0
8	☐			7088.50	0.0410	P	0.7

$$y = 0.0051 * x + 3.7089E-004$$

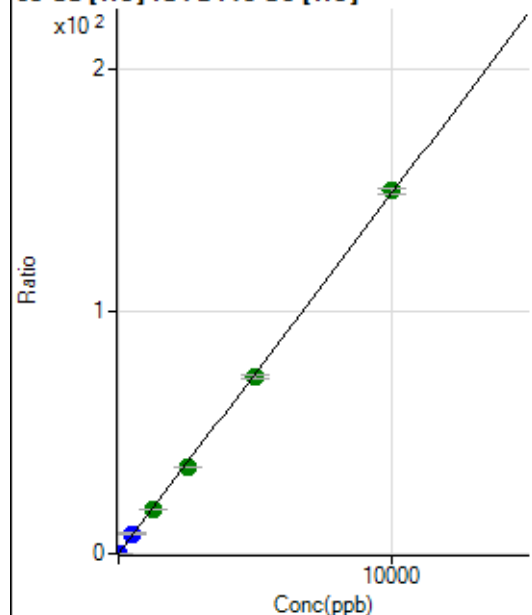
$$R = 0.9999$$

$$DL = 0.05201$$

$$BEC = 0.07286$$

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	753.36	0.0043	P	3.3
2	☐	2.000	2.064	6080.25	0.0350	P	4.1
3	☐	500.000	549.526	1365993.19	8.1718	P	5.8
4	☐	1250.000	1243.458	3196010.54	18.4857	A	1.0
5	☐	2500.000	2412.341	6246355.67	35.8586	A	0.9
6	☐	5000.000	4893.853	12902259.53	72.7409	A	2.5
7	☐	10000.000	10073.330	25881192.11	149.7226	A	1.3
8	☐			8215.80	0.0475	P	4.6

$$y = 0.0149 * x + 0.0043$$

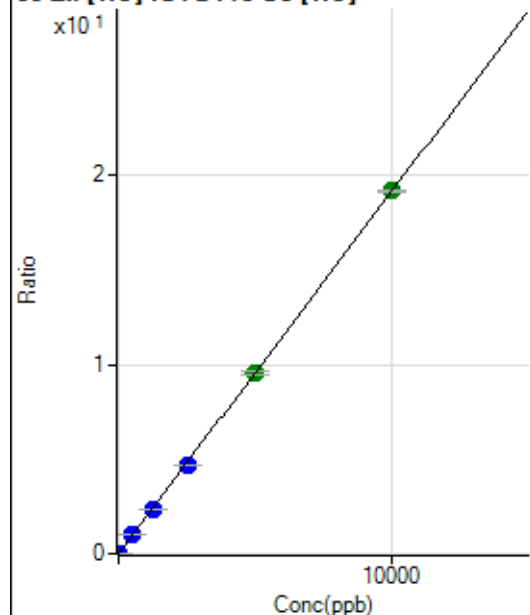
$$R = 0.9998$$

$$DL = 0.02922$$

$$BEC = 0.2917$$

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	144.45	0.0008	P	14.6
2	☐	2.000	2.240	888.93	0.0051	P	1.4
3	☐	500.000	538.190	172303.13	1.0304	P	4.9
4	☐	1250.000	1217.164	402697.73	2.3293	P	1.6
5	☐	2500.000	2442.129	813917.52	4.6728	P	1.0
6	☐	5000.000	4988.071	1692803.86	9.5433	A	1.9
7	☐	10000.000	10022.627	3314578.87	19.1747	A	0.5
8	☐			2963.68	0.0172	P	3.8

$$y = 0.0019 * x + 8.3142E-004$$

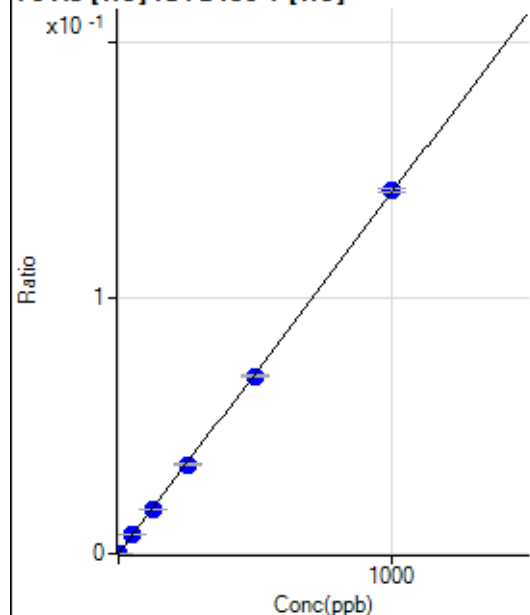
$$R = 1.0000$$

$$DL = 0.1901$$

$$BEC = 0.4346$$

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	15.33	0.0000	P	9.8
2	☐	1.000	1.011	206.69	0.0002	P	1.5
3	☐	50.000	53.694	9810.73	0.0076	P	5.5
4	☐	125.000	121.388	22583.24	0.0172	P	0.7
5	☐	250.000	246.069	46144.14	0.0348	P	2.1
6	☐	500.000	491.284	95067.17	0.0694	P	0.7
7	☐	1000.000	1005.608	188610.97	0.1421	P	1.0
8	☐			77.01	0.0001	P	2.7

$$y = 1.4130E-004 * x + 1.1497E-005$$

$$R = 0.9999$$

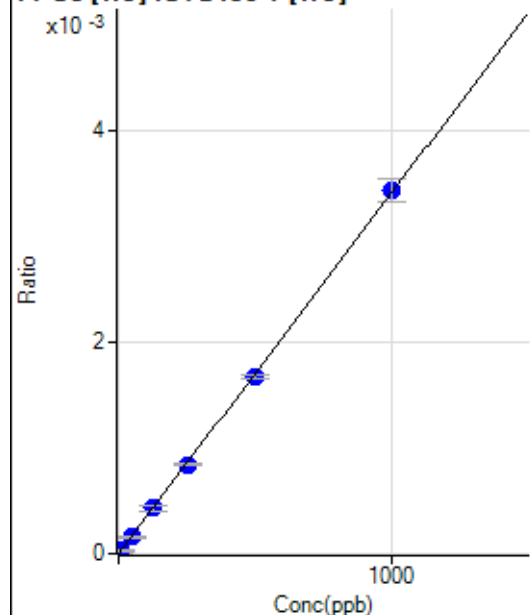
$$DL = 0.02395$$

$$BEC = 0.08136$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1.11	0.0000	P	173.
2	☐	5.000	8.265	38.89	0.0000	P	24.4
3	☐	50.000	46.815	206.67	0.0002	P	12.9
4	☐	125.000	126.638	570.02	0.0004	P	12.2
5	☐	250.000	247.318	1121.17	0.0008	P	0.8
6	☐	500.000	488.813	2285.77	0.0017	P	2.3
7	☐	1000.000	1006.202	4558.57	0.0034	P	6.5
8	☐			3.33	0.0000	P	100.

$$y = 3.4133\text{E-}006 * x + 8.2224\text{E-}007$$

R = 0.9999

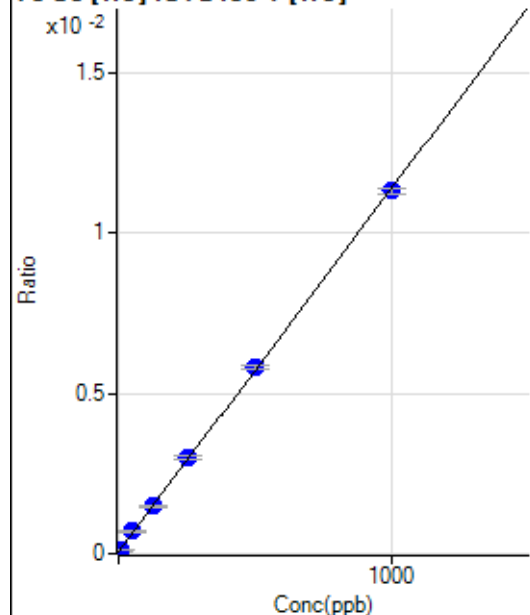
DL = 1.252

BEC = 0.2409

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	81.01	0.0001	P	7.4
2	☐	5.000	5.161	159.69	0.0001	P	7.5
3	☐	50.000	56.286	900.12	0.0007	P	10.3
4	☐	125.000	124.352	1934.33	0.0015	P	1.3
5	☐	250.000	259.516	3982.30	0.0030	P	3.6
6	☐	500.000	507.923	7965.40	0.0058	P	1.7
7	☐	1000.000	993.426	15024.51	0.0113	P	1.6
8	☐			73.68	0.0001	P	13.2

$$y = 1.1334\text{E-}005 * x + 6.0769\text{E-}005$$

R = 0.9999

DL = 1.195

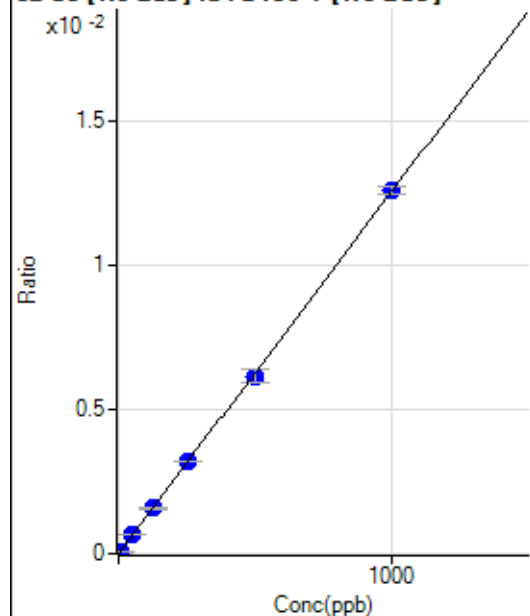
BEC = 5.362

Weight: <None>

Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			62388.43		P	1.5
2	☐			63876.14		P	3.7
3	☐			61523.17		P	1.2
4	☐			59006.53		P	1.9
5	☐			60015.25		P	3.2
6	☐			61577.19		P	1.7
7	☐			57559.36		P	2.7
8	☐			58223.23		P	0.2

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	17.50	0.0000	P	539.
2	☐	5.000	5.599	1010.92	0.0001	P	3.7
3	☐	50.000	53.615	9365.31	0.0007	P	0.6
4	☐	125.000	125.038	21522.14	0.0016	P	4.0
5	☐	250.000	255.880	44633.31	0.0032	P	0.7
6	☐	500.000	490.812	86351.31	0.0062	P	8.2
7	☐	1000.000	1002.936	180130.83	0.0126	P	2.0
8	☐			270.02	0.0000	P	32.3

$$y = 1.2554\text{E-}005 * x + 1.2246\text{E-}006$$

$$R = 0.9999$$

$$DL = 1.58$$

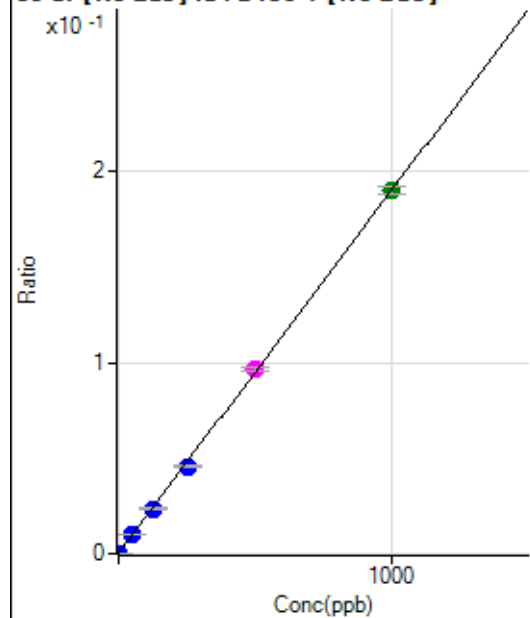
$$BEC = 0.09755$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2537.00		P	0.9
2	☐			2508.67		P	1.6
3	☐			2535.75		P	0.4
4	☐			2504.08		P	3.2
5	☐			2385.33		P	2.3
6	☐			2472.00		P	1.2
7	☐			2535.76		P	3.9
8	☐			2482.83		P	2.3

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	4020.14	0.0003	P	3.4
2	☐	1.000	0.921	6535.05	0.0005	P	2.6
3	☐	50.000	49.998	135728.78	0.0098	P	1.4
4	☐	125.000	121.734	320334.26	0.0234	P	4.7
5	☐	250.000	239.091	633969.90	0.0456	P	2.4
6	☐	500.000	507.757	1355093.21	0.0966	M	2.3
7	☐	1000.000	999.257	2716155.55	0.1899	A	2.1
8	☐			21472.45	0.0016	P	1.5

$$y = 1.8972E-004 * x + 2.8773E-004$$

$$R = 0.9999$$

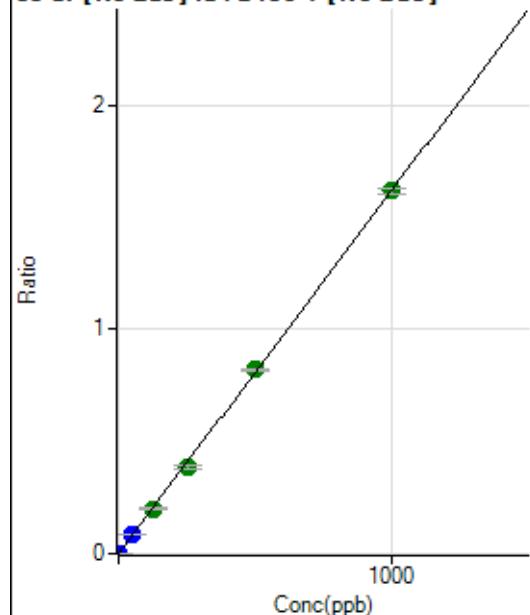
$$DL = 0.1568$$

$$BEC = 1.517$$

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	266.68	0.0000	P	28.6
2	☐	1.000	0.949	21978.92	0.0016	P	1.2
3	☐	50.000	51.094	1148845.96	0.0827	P	1.4
4	☐	125.000	123.394	2736026.32	0.1998	A	5.4
5	☐	250.000	239.097	5374928.50	0.3870	A	3.0
6	☐	500.000	506.134	11491707.20	0.8193	A	1.9
7	☐	1000.000	999.805	23153333.67	1.6184	A	1.5
8	☐			151270.95	0.0109	P	1.5

$$y = 0.0016 * x + 1.9026E-005$$

$$R = 0.9999$$

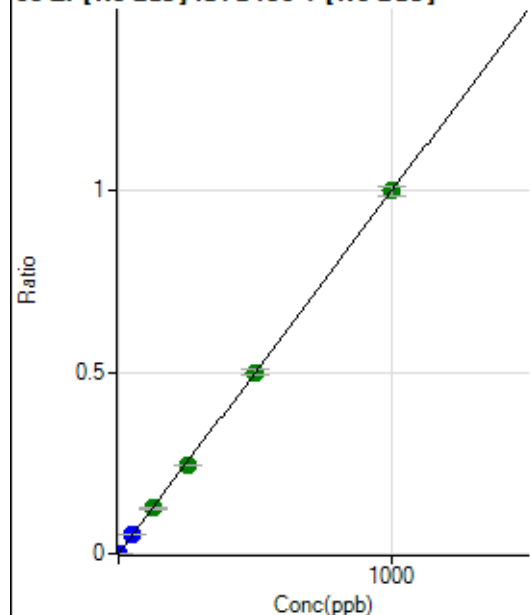
$$DL = 0.01009$$

$$BEC = 0.01175$$

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	575.03	0.0000	P	10.1
2	☐	1.000	0.893	13173.23	0.0009	P	2.7
3	☐	50.000	51.079	708562.15	0.0510	P	2.6
4	☐	125.000	126.199	1726537.45	0.1260	A	3.5
5	☐	250.000	245.336	3401940.48	0.2449	A	0.6
6	☐	500.000	500.844	7011014.22	0.5000	A	3.3
7	☐	1000.000	1000.540	14288404.49	0.9988	A	2.3
8	☐			7707.94	0.0006	P	2.8

$$y = 9.9818E-004 * x + 4.1104E-005$$

$$R = 1.0000$$

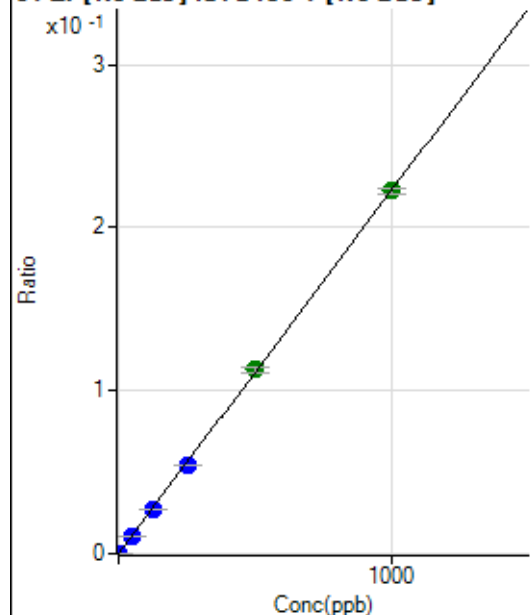
$$DL = 0.01244$$

$$BEC = 0.04118$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	147.23	0.0000	P	13.4
2	☐	1.000	0.883	2928.17	0.0002	P	7.1
3	☐	50.000	50.005	154825.32	0.0111	P	0.6
4	☐	125.000	121.903	372131.46	0.0272	P	3.7
5	☐	250.000	242.028	748866.36	0.0539	P	0.5
6	☐	500.000	507.225	1584312.46	0.1130	A	3.0
7	☐	1000.000	998.768	3182976.37	0.2225	A	1.5
8	☐			1694.60	0.0001	P	5.9

$$y = 2.2272\text{E-}004 * x + 1.0549\text{E-}005$$

$$R = 0.9999$$

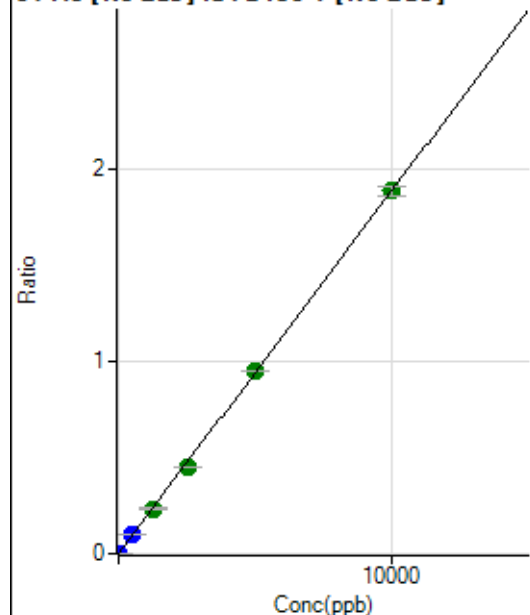
$$DL = 0.01899$$

$$BEC = 0.04736$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	244.46	0.0000	P	14.4
2	☐	5.000	5.971	16176.50	0.0011	P	0.6
3	☐	500.000	514.471	1349203.60	0.0971	P	0.8
4	☐	1250.000	1234.876	3193343.58	0.2332	A	6.0
5	☐	2500.000	2392.673	6274664.94	0.4518	A	0.7
6	☐	5000.000	5043.562	13359053.68	0.9522	A	0.3
7	☐	10000.000	10006.217	27030293.66	1.8892	A	2.5
8	☐			10801.82	0.0008	P	2.5

$$y = 1.8880\text{E-}004 * x + 1.7466\text{E-}005$$

$$R = 0.9999$$

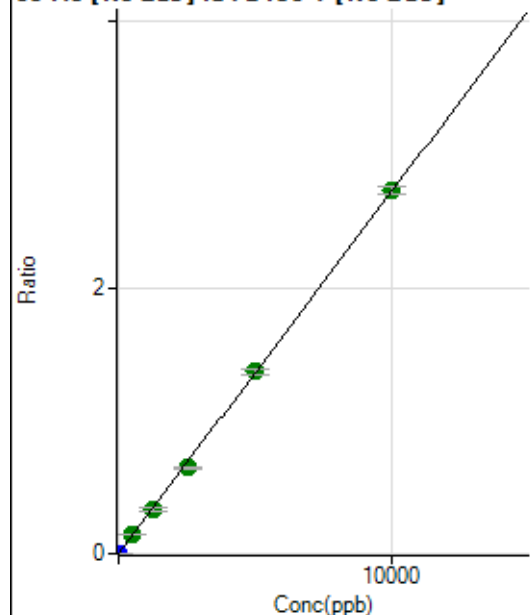
$$DL = 0.03984$$

$$BEC = 0.09251$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	102.78	0.0000	P	52.2
2	☐	5.000	5.074	19617.23	0.0014	P	2.9
3	☐	500.000	515.768	1949616.47	0.1404	A	2.0
4	☐	1250.000	1221.045	4551798.80	0.3323	A	5.2
5	☐	2500.000	2374.432	8974959.93	0.6462	A	1.5
6	☐	5000.000	5024.317	19176269.35	1.3674	A	2.5
7	☐	10000.000	10022.064	39019319.28	2.7275	A	2.2
8	☐			12058.38	0.0009	P	3.7

$$y = 2.7215E-004 * x + 7.3519E-006$$

$$R = 0.9999$$

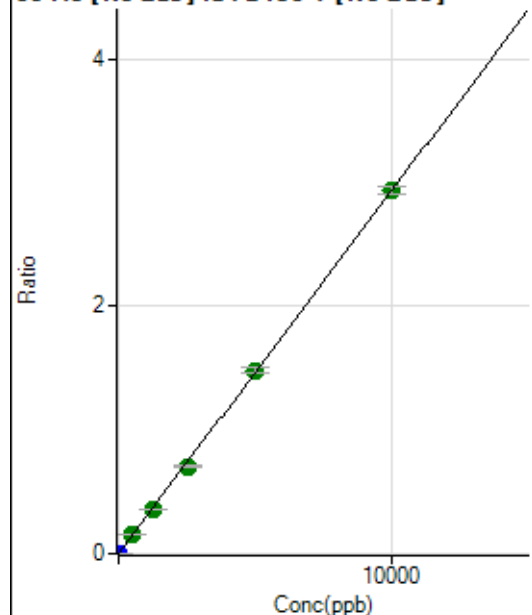
$$DL = 0.0423$$

$$BEC = 0.02701$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	466.69	0.0000	P	8.5
2	☐	5.000	5.129	21739.59	0.0015	P	1.0
3	☐	500.000	517.524	2109780.86	0.1519	A	1.4
4	☐	1250.000	1218.720	4900818.34	0.3577	A	3.2
5	☐	2500.000	2405.596	9804720.18	0.7059	A	1.3
6	☐	5000.000	5051.683	20787608.27	1.4824	A	3.6
7	☐	10000.000	10000.793	41982010.66	2.9346	A	2.0
8	☐			35245.88	0.0025	P	5.3

$$y = 2.9344E-004 * x + 3.3403E-005$$

$$R = 0.9999$$

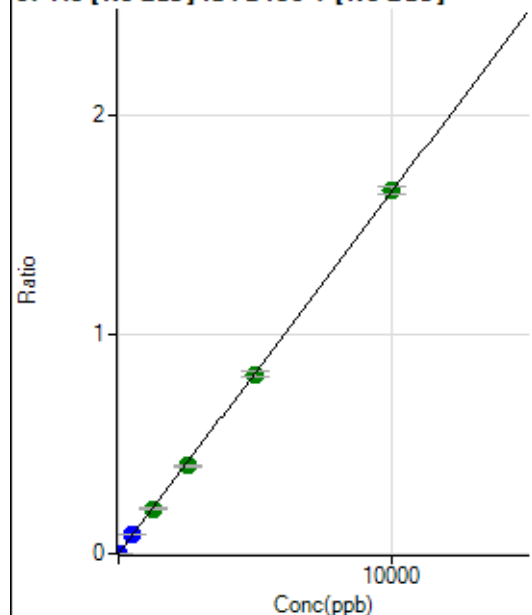
$$DL = 0.02898$$

$$BEC = 0.1138$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	52.78	0.0000	P	63.2
2	☐	5.000	4.916	11518.97	0.0008	P	2.7
3	☐	500.000	516.663	1184652.59	0.0853	P	0.4
4	☐	1250.000	1237.976	2800231.86	0.2044	A	3.7
5	☐	2500.000	2424.682	5560187.97	0.4003	A	1.8
6	☐	5000.000	4970.998	11509134.20	0.8206	A	2.3
7	☐	10000.000	10034.000	23698453.83	1.6564	A	2.1
8	☐			7521.70	0.0005	P	10.9

$$y = 1.6508\text{E-}004 * x + 3.7547\text{E-}006$$

$$R = 1.0000$$

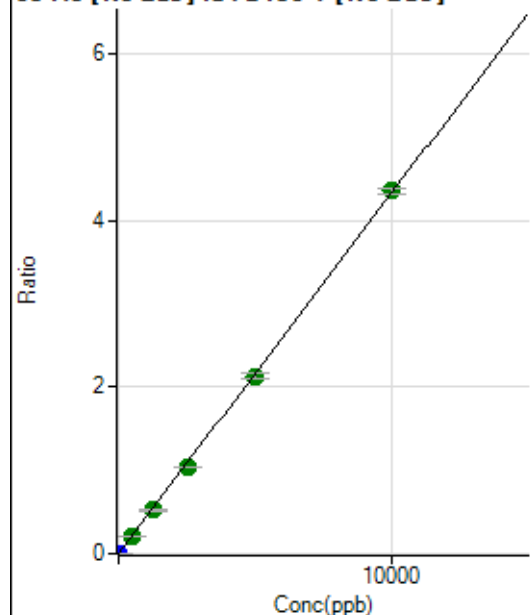
$$DL = 0.04313$$

$$BEC = 0.02274$$

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	222.23	0.0000	P	25.8
2	☐	5.000	4.842	29863.51	0.0021	P	2.5
3	☐	500.000	500.510	3011997.25	0.2169	A	0.9
4	☐	1250.000	1211.348	7192118.65	0.5249	A	3.2
5	☐	2500.000	2384.460	14350644.24	1.0331	A	0.5
6	☐	5000.000	4933.478	29977382.27	2.1376	A	2.8
7	☐	10000.000	10066.952	62400253.48	4.3618	A	1.7
8	☐			18304.27	0.0013	P	5.7

$$y = 4.3328\text{E-}004 * x + 1.5929\text{E-}005$$

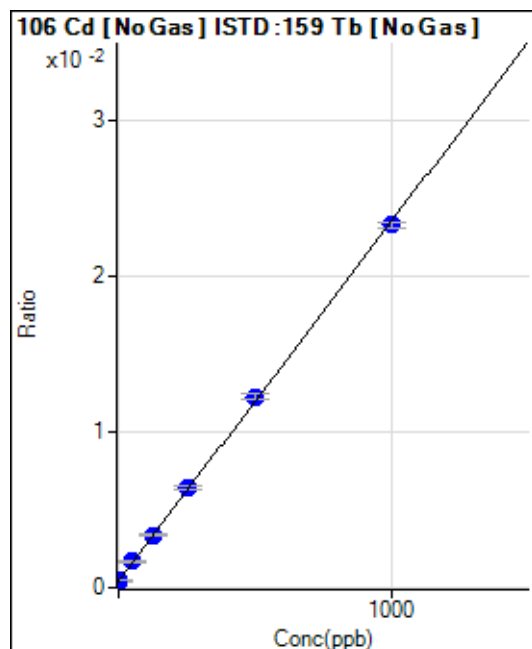
$$R = 0.9999$$

$$DL = 0.02847$$

$$BEC = 0.03676$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	3934.00	0.0004	P	8.7
2	☐	1.000	1.639	4309.12	0.0005	P	4.5
3	☐	50.000	54.013	15587.03	0.0017	P	3.8
4	☐	125.000	127.838	31478.41	0.0034	P	3.7
5	☐	250.000	260.754	59325.70	0.0064	P	3.3
6	☐	500.000	512.860	116550.40	0.0123	P	3.6
7	☐	1000.000	990.325	231433.48	0.0233	P	1.3
8	☐			4147.98	0.0004	P	1.9

$$y = 2.3078E-005 * x + 4.3070E-004$$

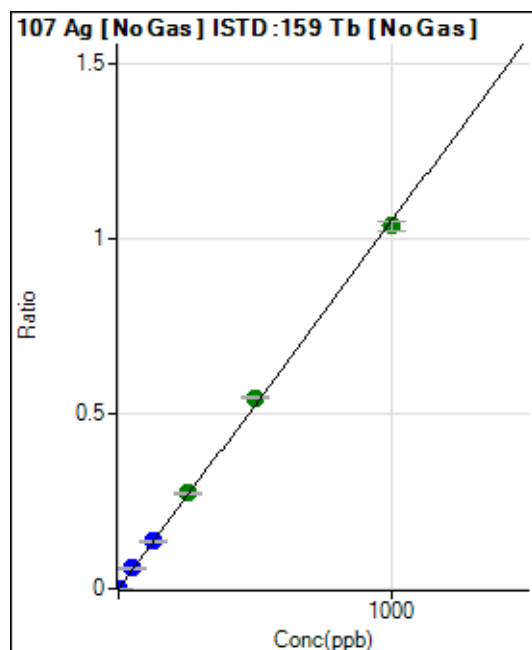
$$R = 0.9998$$

$$DL = 4.849$$

$$BEC = 18.66$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	138.89	0.0000	P	29.6
2	☐	1.000	1.032	10095.62	0.0011	P	1.3
3	☐	50.000	55.019	536661.25	0.0578	P	1.6
4	☐	125.000	130.297	1273146.68	0.1368	P	4.5
5	☐	250.000	259.197	2504057.65	0.2721	A	1.0
6	☐	500.000	519.236	5180862.27	0.5450	A	0.7
7	☐	1000.000	987.170	10299512.99	1.0361	A	2.5
8	☐			4614.80	0.0005	P	6.6

$$y = 0.0010 * x + 1.5157E-005$$

$$R = 0.9997$$

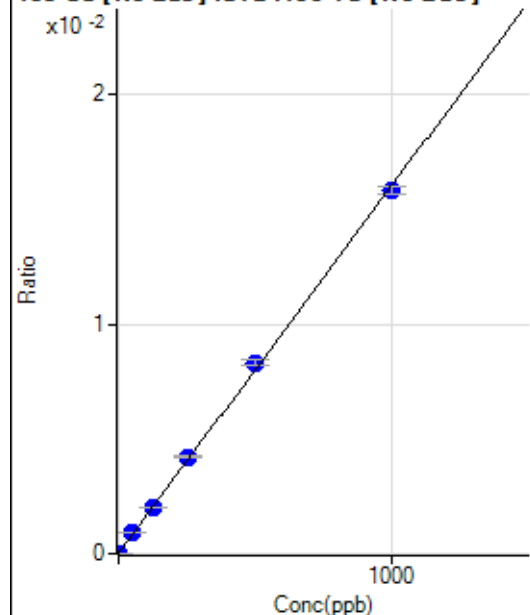
$$DL = 0.01284$$

$$BEC = 0.01444$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	123.61	0.0000	P	24.7
2	☐	1.000	1.345	322.23	0.0000	P	4.6
3	☐	50.000	55.167	8327.61	0.0009	P	2.9
4	☐	125.000	125.705	18860.31	0.0020	P	2.5
5	☐	250.000	262.632	38800.44	0.0042	P	2.2
6	☐	500.000	519.723	79159.30	0.0083	P	3.8
7	☐	1000.000	986.634	157056.09	0.0158	P	2.0
8	☐			156.95	0.0000	P	2.8

$$y = 1.6004\text{E-}005 * x + 1.3526\text{E-}005$$

$$R = 0.9996$$

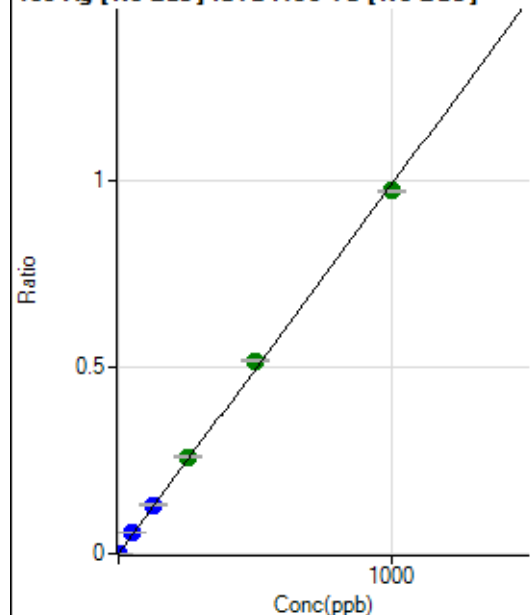
$$DL = 0.6263$$

$$BEC = 0.8452$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	83.34	0.0000	P	18.2
2	☐	1.000	1.076	9884.39	0.0011	P	4.3
3	☐	50.000	55.154	507775.22	0.0546	P	1.1
4	☐	125.000	132.712	1224007.89	0.1315	P	3.9
5	☐	250.000	262.795	2395346.36	0.2603	A	2.9
6	☐	500.000	523.890	4933135.79	0.5190	A	1.2
7	☐	1000.000	983.634	9683743.62	0.9744	A	0.7
8	☐			4381.38	0.0005	P	5.7

$$y = 9.9063\text{E-}004 * x + 9.1305\text{E-}006$$

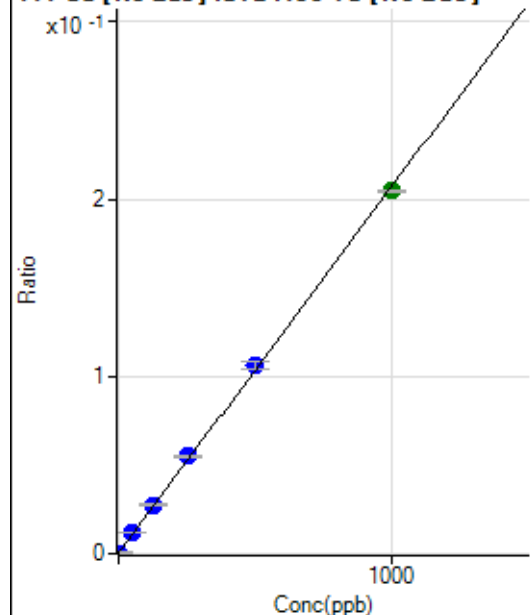
$$R = 0.9995$$

$$DL = 0.00504$$

$$BEC = 0.009217$$

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	2808.94	0.0003	P	8.3
2	☐	1.000	1.115	4945.20	0.0005	P	2.8
3	☐	50.000	54.759	108040.77	0.0116	P	1.4
4	☐	125.000	129.854	252738.29	0.0271	P	3.9
5	☐	250.000	265.495	507836.07	0.0552	P	1.7
6	☐	500.000	513.032	1010674.90	0.1064	P	3.4
7	☐	1000.000	988.765	2034255.90	0.2047	A	0.8
8	☐			3468.74	0.0004	P	1.6

$$y = 2.0670\text{E-}004 * x + 3.0753\text{E-}004$$

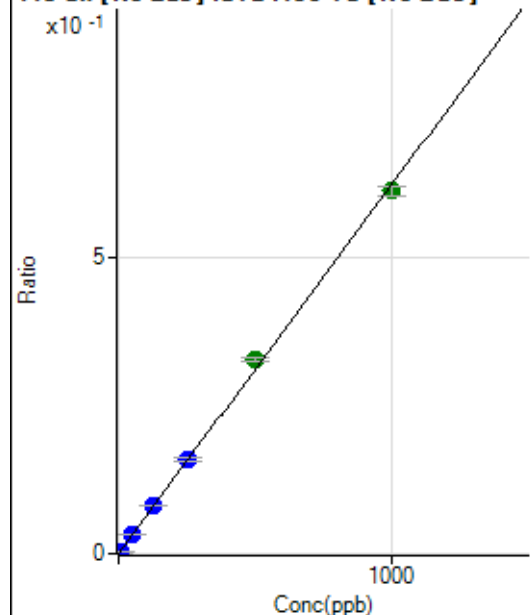
$$R = 0.9997$$

$$DL = 0.3682$$

$$BEC = 1.488$$

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	1125.08	0.0001	P	5.6
2	☐	5.000	5.224	30981.24	0.0034	P	3.2
3	☐	50.000	53.791	311734.49	0.0336	P	2.0
4	☐	125.000	130.001	753403.95	0.0809	P	3.5
5	☐	250.000	255.709	1463265.31	0.1590	P	3.1
6	☐	500.000	527.843	3119006.73	0.3282	A	2.1
7	☐	1000.000	983.836	6077097.23	0.6116	A	2.5
8	☐			4289.68	0.0005	P	2.1

$$y = 6.2150\text{E-}004 * x + 1.2316\text{E-}004$$

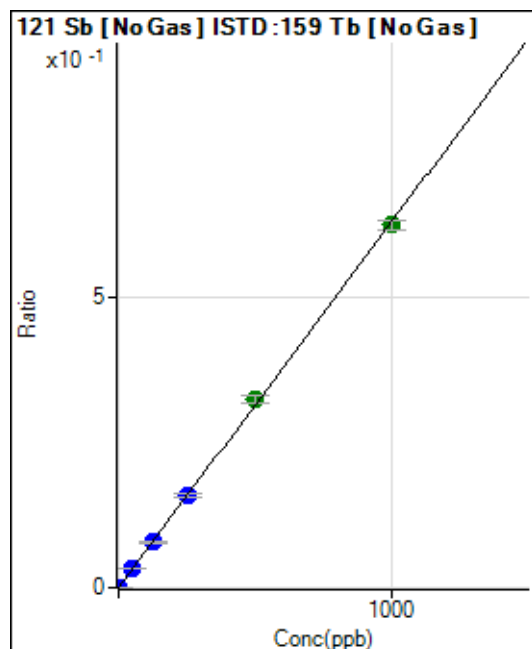
$$R = 0.9994$$

$$DL = 0.03348$$

$$BEC = 0.1982$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	88.89	0.0000	P	18.9
2	☐	2.000	1.985	11591.36	0.0013	P	5.6
3	☐	50.000	52.761	309184.63	0.0333	P	1.3
4	☐	125.000	123.927	727532.49	0.0781	P	3.9
5	☐	250.000	251.538	1459294.41	0.1586	P	3.2
6	☐	500.000	514.906	3084353.54	0.3247	A	4.7
7	☐	1000.000	992.159	6217954.91	0.6256	A	2.6
8	☐			3622.81	0.0004	P	3.0

$$y = 6.3053\text{E-}004 * x + 9.7198\text{E-}006$$

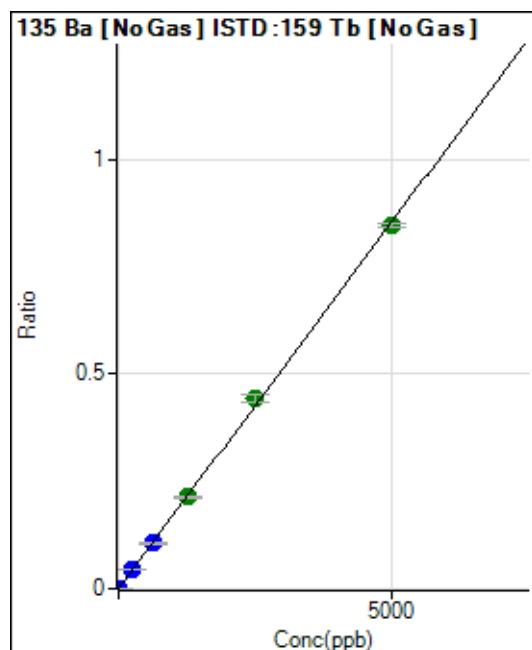
$$R = 0.9998$$

$$DL = 0.008762$$

$$BEC = 0.01542$$

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	87.3
2	☐	10.000	9.901	15564.88	0.0017	P	1.8
3	☐	250.000	259.391	411614.24	0.0443	P	1.2
4	☐	625.000	624.942	993550.00	0.1067	P	3.5
5	☐	1250.000	1250.571	1964599.74	0.2135	A	3.2
6	☐	2500.000	2595.653	4211375.40	0.4432	A	3.5
7	☐	5000.000	4951.568	8403000.45	0.8455	A	1.1
8	☐			4498.10	0.0005	P	0.8

$$y = 1.7075\text{E-}004 * x + 2.7172\text{E-}006$$

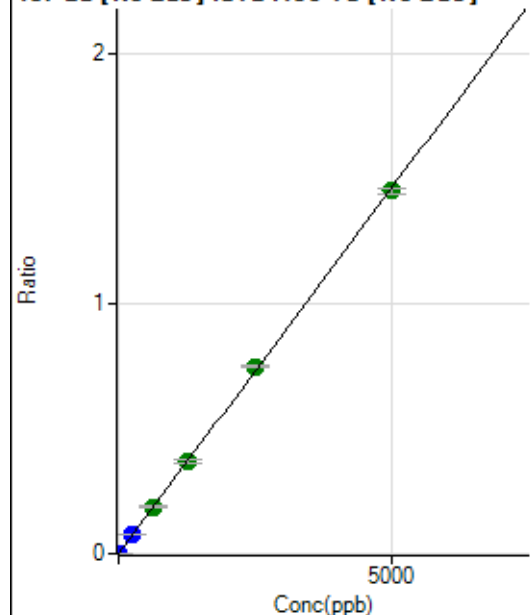
$$R = 0.9997$$

$$DL = 0.0417$$

$$BEC = 0.01591$$

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	47.22	0.0000	P	50.6
2	☐	10.000	9.982	26860.63	0.0029	P	2.8
3	☐	250.000	261.971	711396.20	0.0766	P	1.9
4	☐	625.000	633.621	1724171.03	0.1852	A	3.7
5	☐	1250.000	1265.881	3403232.46	0.3700	A	4.7
6	☐	2500.000	2561.395	7116456.15	0.7486	A	0.7
7	☐	5000.000	4963.656	14417113.34	1.4507	A	1.2
8	☐			7744.10	0.0008	P	1.7

$$y = 2.9227E-004 * x + 5.1616E-006$$

$$R = 0.9999$$

$$DL = 0.02679$$

$$BEC = 0.01766$$

Weight: <None>

Min Conc: 0

150 Nd [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			11.11		P	34.6
2	☐			6.67		P	100.
3	☐			35.56		P	39.0
4	☐			108.89		P	19.7
5	☐			206.67		P	32.3
6	☐			357.79		P	2.8
7	☐			715.59		P	9.3
8	☐			75.56		P	41.7

150 Nd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			0.00		P	
2	☐			2.22		P	86.6
3	☐			2.22		P	173.
4	☐			13.33		P	50.0
5	☐			27.78		P	48.5
6	☐			27.78		P	54.1
7	☐			68.89		P	10.1
8	☐			18.89		P	40.7

156 Dy [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			5.55		P	86.6
2	☐			22.22		P	86.6
3	☐			30.56		P	31.5
4	☐			38.89		P	44.6
5	☐			144.45		P	13.3
6	☐			238.90		P	10.7
7	☐			475.02		P	11.0
8	☐			830.61		P	6.0

156 Dy [He] No available calibration points

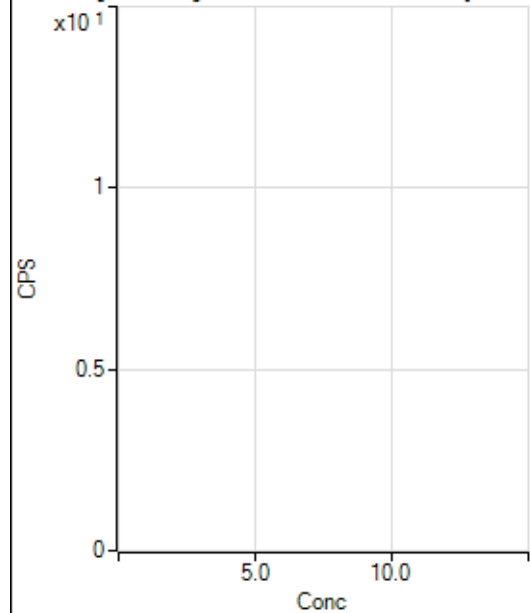
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1.11		P	173.
2	☐			3.33		P	173.
3	☐			12.22		P	15.7
4	☐			30.00		P	19.2
5	☐			38.89		P	17.8
6	☐			88.89		P	16.9
7	☐			157.78		P	8.5
8	☐			226.67		P	2.5

160 Gd [No Gas] Noavailable calibration poin_

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			44.45		P	47.2
2	☐			58.33		P	28.6
3	☐			63.89		P	39.8
4	☐			97.23		P	9.9
5	☐			122.22		P	33.6
6	☐			236.12		P	17.4
7	☐			341.68		P	19.4
8	☐			686.15		P	13.8

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			66.67		P	13.2
2	☐			68.89		P	39.4
3	☐			82.22		P	22.3
4	☐			86.67		P	20.4
5	☐			94.45		P	21.6
6	☐			115.56		P	4.4
7	☐			175.56		P	14.3
8	☐			311.12		P	14.3

164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			75.00		P	40.1
2	☐			55.56		P	45.8
3	☐			75.00		P	48.4
4	☐			75.00		P	29.4
5	☐			130.56		P	16.1
6	☐			155.56		P	29.5
7	☐			244.45		P	15.4
8	☐			116.67		P	28.6

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			35.56		P	23.6
2	☐			24.45		P	55.1
3	☐			31.11		P	12.4
4	☐			25.56		P	39.8
5	☐			50.00		P	11.5
6	☐			53.33		P	34.8
7	☐			68.89		P	18.3
8	☐			40.00		P	30.0

172 Yb [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			66.67		P	37.5
2	☐			61.11		P	34.3
3	☐			83.34		P	10.0
4	☐			72.22		P	24.0
5	☐			111.11		P	24.1
6	☐			105.56		P	12.1
7	☐			158.34		P	15.8
8	☐			236.12		P	19.4

172 Yb [He] No available calibration points

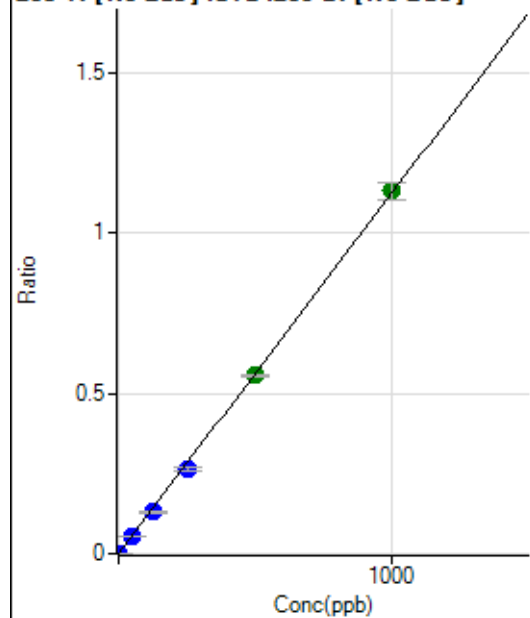
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			35.19		P	45.6
2	☐			16.67		P	33.3
3	☐			14.81		P	43.3
4	☐			35.19		P	24.1
5	☐			33.33		P	28.9
6	☐			33.33		P	28.9
7	☐			85.19		P	27.1
8	☐			64.82		P	17.8

176 Yb [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1213.98		P	6.2
2	☐			1314.00		P	4.1
3	☐			2475.31		P	4.6
4	☐			4164.68		P	7.0
5	☐			7577.40		P	4.9
6	☐			14080.08		P	2.6
7	☐			27607.35		P	3.2
8	☐			1263.98		P	7.3

176 Yb [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			5030.67		P	5.6
2	☐			4901.00		P	2.9
3	☐			5182.61		P	8.4
4	☐			6071.88		P	5.3
5	☐			7378.12		P	2.2
6	☐			10272.66		P	6.8
7	☐			15424.03		P	0.3
8	☐			5049.21		P	3.3

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	1355.66	0.0003	P	12.3
2	☐	1.000	0.914	6746.40	0.0013	P	2.9
3	☐	50.000	47.531	279985.84	0.0537	P	0.8
4	☐	125.000	115.154	675847.39	0.1297	P	2.6
5	☐	250.000	235.595	1365149.50	0.2650	P	3.3
6	☐	500.000	495.927	2882275.96	0.5576	A	1.2
7	☐	1000.000	1006.992	5944287.16	1.1319	A	4.9
8	☐			3150.48	0.0007	P	2.5

$$y = 0.0011 * x + 2.6317E-004$$

$$R = 0.9999$$

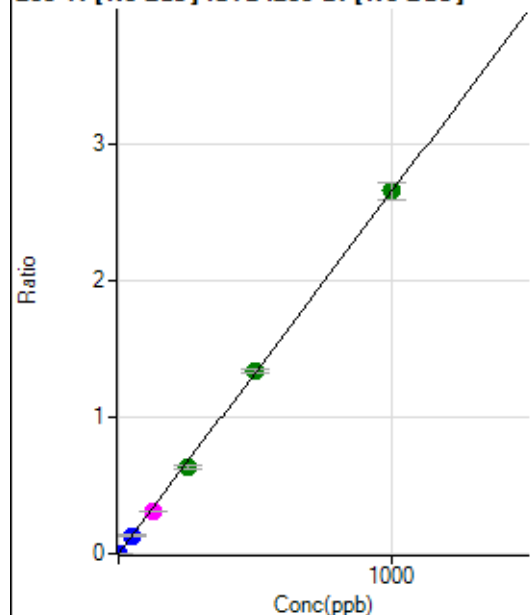
$$DL = 0.08643$$

$$BEC = 0.2342$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	3161.59	0.0006	P	5.6
2	☐	1.000	0.861	15117.62	0.0029	P	1.6
3	☐	50.000	49.776	690209.24	0.1323	P	2.0
4	☐	125.000	117.474	1623542.56	0.3115	M	2.8
5	☐	250.000	237.362	3238843.95	0.6288	A	3.7
6	☐	500.000	503.694	6894245.64	1.3337	A	1.5
7	☐	1000.000	1002.265	13933142.50	2.6531	A	4.8
8	☐			7610.76	0.0017	P	4.5

$$y = 0.0026 * x + 6.1313E-004$$

$$R = 0.9999$$

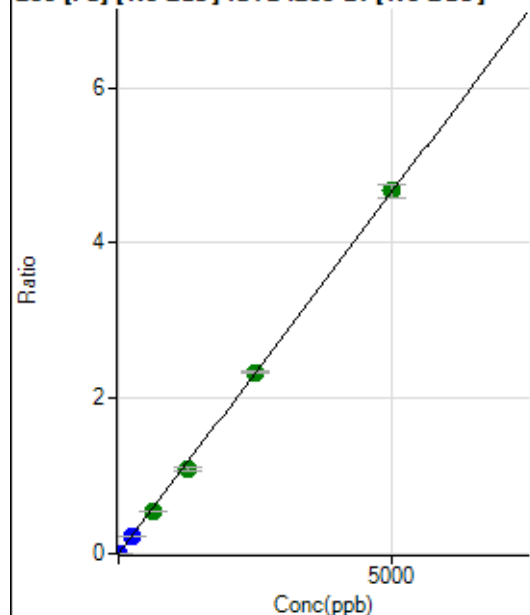
$$DL = 0.03864$$

$$BEC = 0.2317$$

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	846.34	0.0002	P	5.2
2	☐	1.000	0.902	5247.45	0.0010	P	4.1
3	☐	250.000	233.535	1134046.64	0.2175	P	3.7
4	☐	625.000	586.940	2847825.90	0.5465	A	3.8
5	☐	1250.000	1168.867	5604766.27	1.0882	A	4.3
6	☐	2500.000	2513.389	12093521.33	2.3397	A	1.7
7	☐	5000.000	5019.169	24540502.86	4.6721	A	3.4
8	☐			6299.81	0.0014	P	6.3

$$y = 9.3083E-004 * x + 1.6423E-004$$

$$R = 0.9998$$

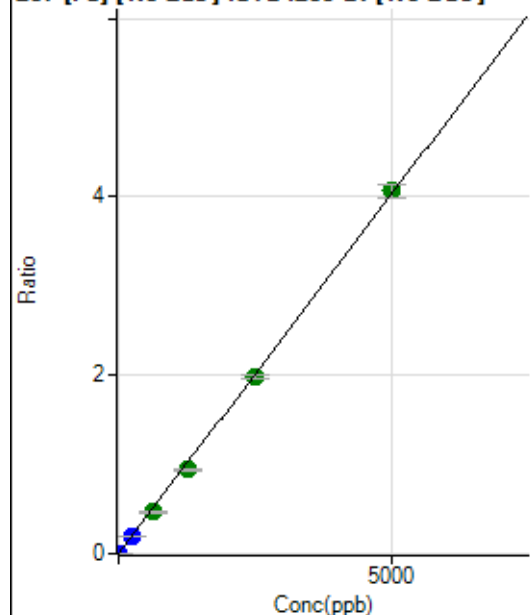
$$DL = 0.02727$$

$$BEC = 0.1764$$

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	763.00	0.0001	P	2.3
2	☐	1.000	0.892	4536.06	0.0009	P	1.8
3	☐	250.000	231.855	975224.71	0.1870	P	2.6
4	☐	625.000	578.460	2430932.52	0.4664	A	3.5
5	☐	1250.000	1165.946	4842000.80	0.9400	A	3.0
6	☐	2500.000	2462.797	10262658.80	1.9853	A	1.4
7	☐	5000.000	5046.340	21364705.34	4.0678	A	3.9
8	☐			5441.98	0.0012	P	4.7

$$y = 8.0606E-004 * x + 1.4805E-004$$

R = 0.9998

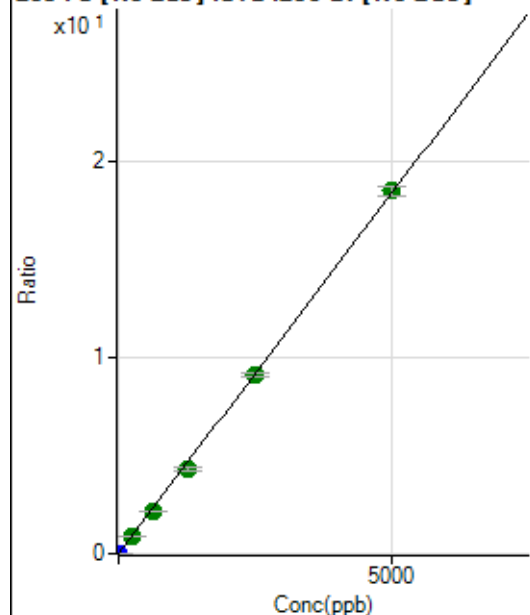
DL = 0.01288

BEC = 0.1837

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	3192.81	0.0006	P	1.4
2	☐	1.000	0.903	20551.13	0.0039	P	0.1
3	☐	250.000	239.218	4577689.72	0.8780	A	2.8
4	☐	625.000	587.087	11223853.28	2.1538	A	4.0
5	☐	1250.000	1168.267	22073359.93	4.2854	A	3.7
6	☐	2500.000	2482.174	47057248.04	9.1043	A	1.9
7	☐	5000.000	5034.624	97001416.75	18.4657	A	2.5
8	☐			24628.08	0.0054	P	5.1

$$y = 0.0037 * x + 6.1944E-004$$

R = 0.9998

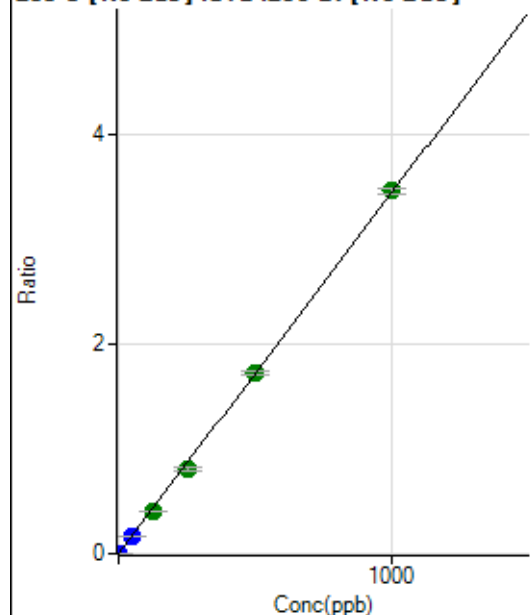
DL = 0.006939

BEC = 0.1689

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	47.23	0.0000	P	19.8
2	☐	1.000	0.865	15615.61	0.0030	P	2.3
3	☐	50.000	46.178	828616.63	0.1589	P	1.6
4	☐	125.000	116.761	2094171.07	0.4017	A	1.6
5	☐	250.000	232.293	4116505.99	0.7992	A	4.3
6	☐	500.000	500.057	8893565.39	1.7204	A	1.9
7	☐	1000.000	1005.619	18177235.82	3.4598	A	1.4
8	☐			2453.10	0.0005	P	10.1

$$y = 0.0034 * x + 9.1564E-006$$

$$R = 0.9998$$

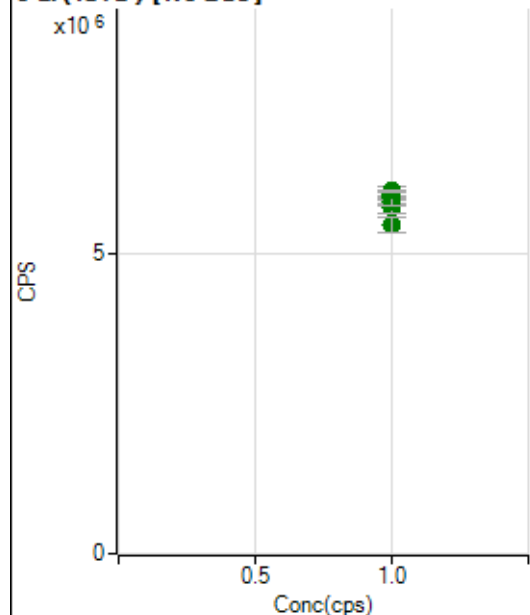
$$DL = 0.001583$$

$$BEC = 0.002661$$

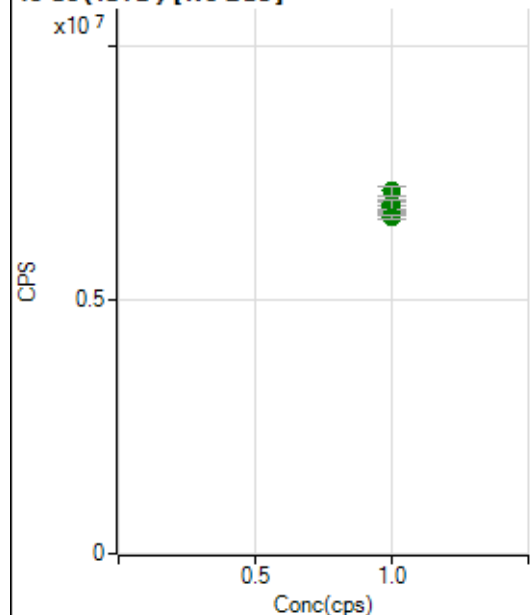
Weight: <None>

Min Conc: 0

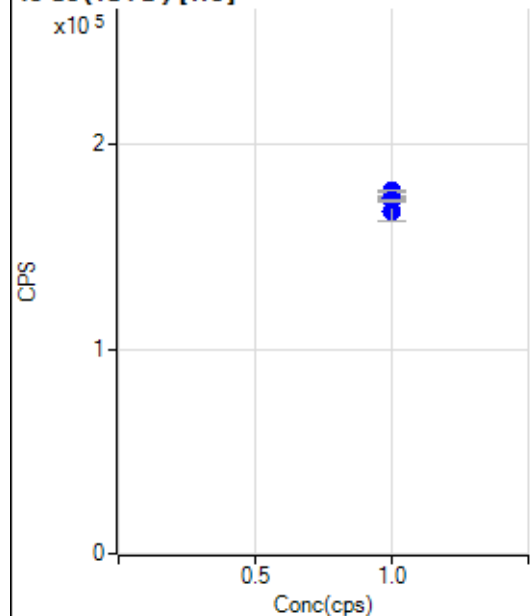
6 Li (ISTD) [No Gas]



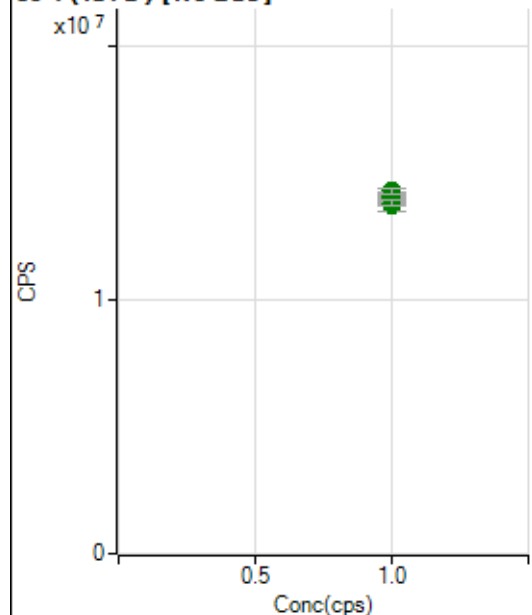
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6021539.71		A	3.4
2	☐	1.000		5771947.16		A	2.6
3	☐	1.000		5926379.68		A	0.9
4	☐	1.000		5874556.78		A	1.7
5	☐	1.000		5938047.70		A	1.1
6	☐	1.000		5978296.57		A	5.8
7	☐	1.000		6062348.47		A	0.4
8	☐	1.000		5499467.00		A	4.9

45 Sc (ISTD) [No Gas]

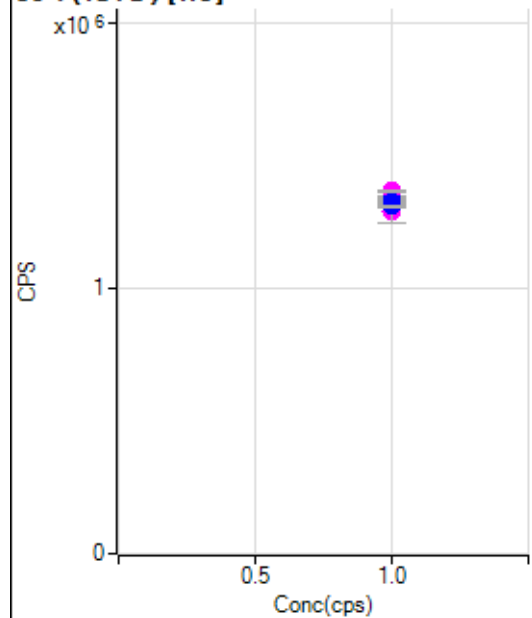
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6887122.74		A	1.3
2	☐	1.000		6760983.30		A	2.0
3	☐	1.000		6792023.44		A	1.1
4	☐	1.000		6687422.82		A	0.9
5	☐	1.000		6640280.25		A	1.9
6	☐	1.000		6859403.99		A	2.5
7	☐	1.000		7136037.67		A	2.6
8	☐	1.000		6610507.75		A	0.8

45 Sc (ISTD) [He]

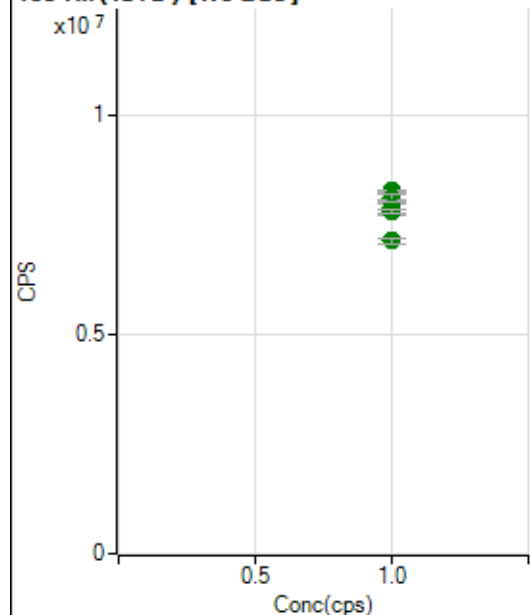
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		173728.24		P	1.3
2	☐	1.000		173699.01		P	1.6
3	☐	1.000		167536.25		P	5.8
4	☐	1.000		172892.94		P	0.7
5	☐	1.000		174185.04		P	1.1
6	☐	1.000		177381.46		P	0.5
7	☐	1.000		172862.29		P	0.2
8	☐	1.000		172818.96		P	0.4

89 Y (ISTD) [No Gas]

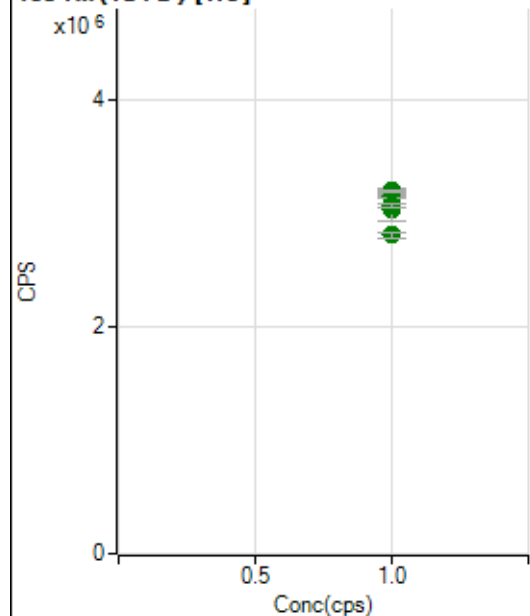
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		13975418.82		A	1.5
2	☐	1.000		14131171.87		A	1.4
3	☐	1.000		13888797.85		A	1.2
4	☐	1.000		13710594.66		A	2.8
5	☐	1.000		13889845.07		A	0.9
6	☐	1.000		14029557.01		A	2.3
7	☐	1.000		14308843.68		A	1.8
8	☐	1.000		13837373.40		A	1.3

89 Y (ISTD) [He]

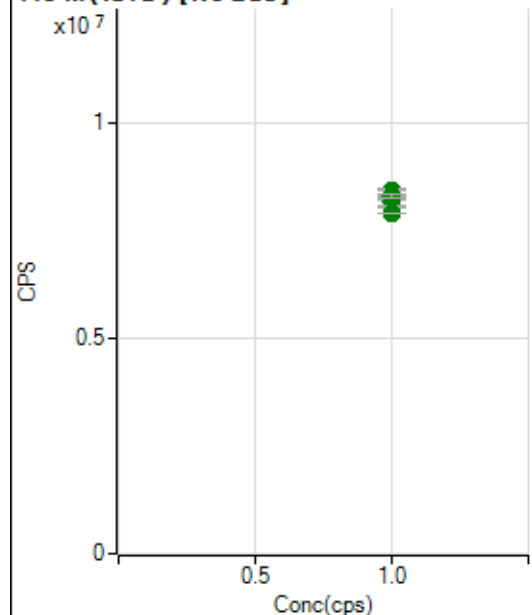
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1333815.08		P	1.9
2	☐	1.000		1338648.08		P	0.4
3	☐	1.000		1294282.19		M	6.8
4	☐	1.000		1315684.08		P	0.6
5	☐	1.000		1326983.29		P	1.8
6	☐	1.000		1369251.92		M	0.8
7	☐	1.000		1327261.50		P	0.5
8	☐	1.000		1310489.62		P	0.6

103 Rh (ISTD) [No Gas]

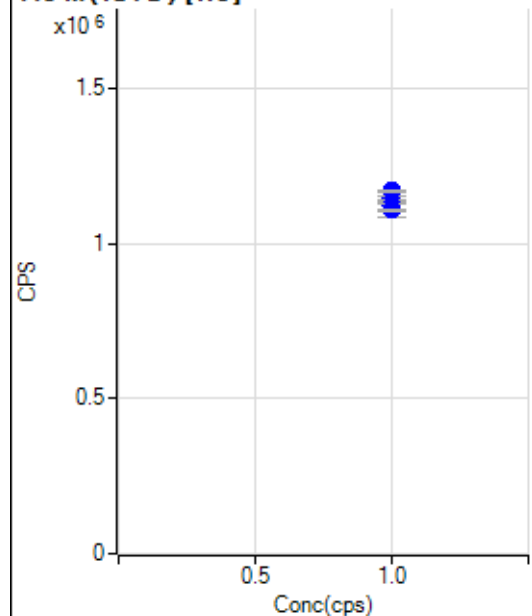
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		8118445.76		A	1.7
2	☐	1.000		8276663.73		A	0.3
3	☐	1.000		8137638.29		A	1.3
4	☐	1.000		7879321.88		A	2.6
5	☐	1.000		7875059.98		A	3.9
6	☐	1.000		7819080.12		A	1.4
7	☐	1.000		7827404.08		A	1.0
8	☐	1.000		7129298.77		A	1.4

103 Rh (ISTD) [He]

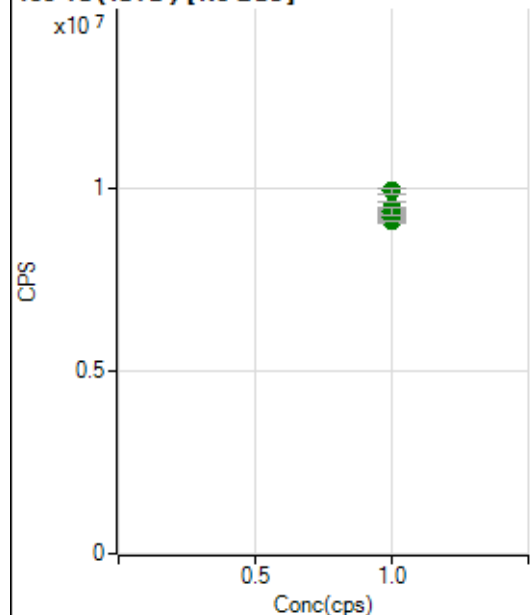
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3193048.36		A	2.1
2	☐	1.000		3146438.43		A	0.4
3	☐	1.000		3034618.81		A	7.1
4	☐	1.000		3149221.27		A	0.9
5	☐	1.000		3156409.19		A	1.0
6	☐	1.000		3201432.24		A	0.8
7	☐	1.000		3071438.91		A	0.8
8	☐	1.000		2808342.56		A	1.7

115 In (ISTD) [No Gas]

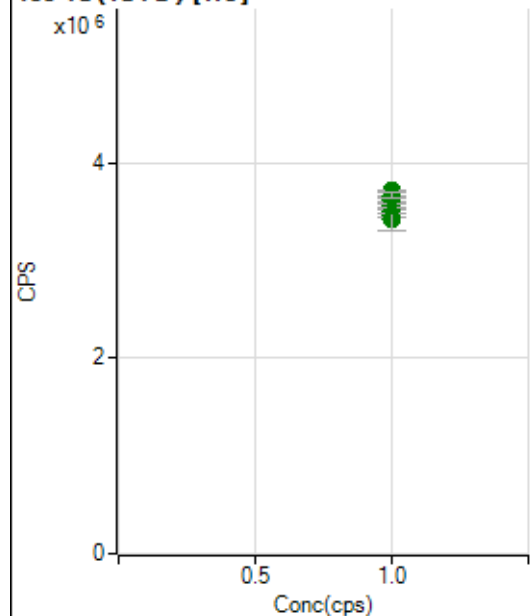
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		8339499.48		A	1.8
2	☐	1.000		8288235.50		A	1.4
3	☐	1.000		8421953.48		A	1.6
4	☐	1.000		8162779.15		A	3.0
5	☐	1.000		8152396.70		A	1.3
6	☐	1.000		8330932.18		A	2.3
7	☐	1.000		8309889.36		A	0.9
8	☐	1.000		7903782.10		A	0.2

115 In (ISTD) [He]

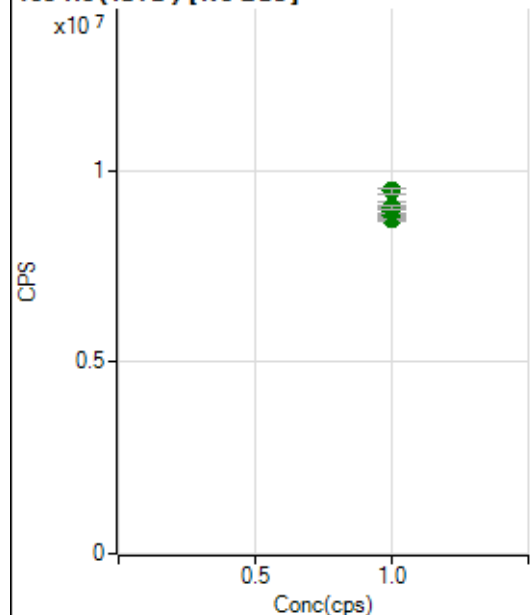
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1164509.86		P	1.6
2	☐	1.000		1171479.25		P	0.1
3	☐	1.000		1128802.39		P	7.3
4	☐	1.000		1141113.09		P	0.4
5	☐	1.000		1150307.63		P	1.2
6	☐	1.000		1171417.91		P	0.4
7	☐	1.000		1120779.39		P	1.2
8	☐	1.000		1109830.90		P	0.4

159 Tb (ISTD) [No Gas]

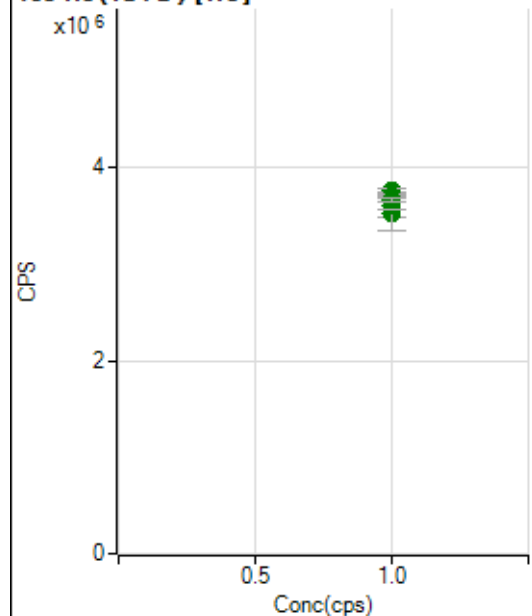
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		9138920.42		A	1.4
2	☐	1.000		9193493.06		A	2.0
3	☐	1.000		9292387.64		A	1.6
4	☐	1.000		9316110.84		A	2.7
5	☐	1.000		9204203.34		A	2.1
6	☐	1.000		9507045.76		A	2.4
7	☐	1.000		9938519.78		A	1.3
8	☐	1.000		9375639.65		A	1.8

159 Tb (ISTD) [He]

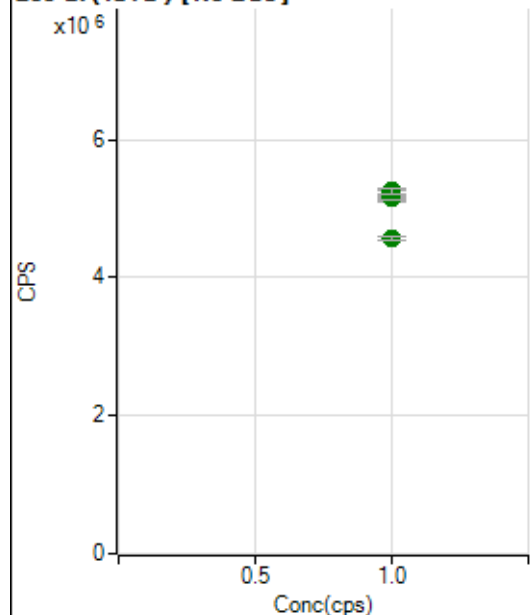
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3495056.06		A	1.3
2	☐	1.000		3459197.59		A	1.5
3	☐	1.000		3421690.71		A	7.1
4	☐	1.000		3568676.79		A	1.3
5	☐	1.000		3568165.85		A	2.1
6	☐	1.000		3710814.87		A	0.2
7	☐	1.000		3623708.42		A	2.4
8	☐	1.000		3663417.24		A	1.5

165 Ho (ISTD) [No Gas]

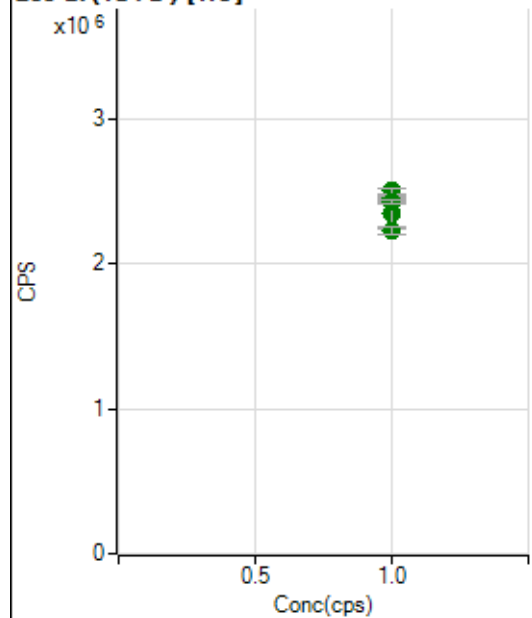
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		8733525.20		A	0.7
2	☐	1.000		8809530.06		A	0.9
3	☐	1.000		8888646.12		A	2.8
4	☐	1.000		8848720.25		A	2.5
5	☐	1.000		8928897.60		A	1.1
6	☐	1.000		9043170.34		A	3.4
7	☐	1.000		9467914.36		A	1.5
8	☐	1.000		9019228.07		A	1.4

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3527313.73		A	2.2
2	☐	1.000		3534080.51		A	2.2
3	☐	1.000		3522061.65		A	9.8
4	☐	1.000		3602191.47		A	2.1
5	☐	1.000		3722004.49		A	1.8
6	☐	1.000		3761841.61		A	1.4
7	☐	1.000		3716179.77		A	0.9
8	☐	1.000		3669969.98		A	0.6

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5155145.17		A	2.0
2	☐	1.000		5229186.59		A	1.0
3	☐	1.000		5216691.07		A	2.9
4	☐	1.000		5213993.95		A	2.3
5	☐	1.000		5152506.59		A	1.3
6	☐	1.000		5169783.99		A	1.7
7	☐	1.000		5254698.84		A	1.9
8	☐	1.000		4569666.74		A	1.3

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2418884.70		A	1.0
2	☐	1.000		2432303.99		A	1.6
3	☐	1.000		2348344.18		A	9.7
4	☐	1.000		2448448.80		A	1.6
5	☐	1.000		2452188.57		A	1.4
6	☐	1.000		2499904.08		A	1.5
7	☐	1.000		2425686.34		A	1.4
8	☐	1.000		2221771.39		A	2.2

US EPA Tune Check Report

Operator Name Jaswal

Acq/Data Batch D:\Agilent\ICPMH\1\DATA\IP8041422-MS1.b

Acq. Date-Time 2022-04-14 15:09:00

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		16957	169573.82			1.523	5.000
24		98656	986560.05			1.106	5.000
25		12708	127081.53			0.967	5.000
26		14674	146736.62			0.951	5.000
59		20427	204271.88			1.158	5.000
113		9359	93592.31			0.990	5.000
115		28321	283206.42			3.331	5.000
206		9697	96969.42			1.557	5.000
207		8160	81602.84			1.149	5.000
208		20160	201598.39			0.925	5.000
220		1	5.30			33.086	

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

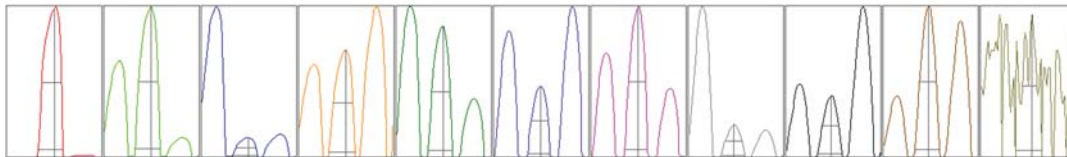
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	17228	17062	17104	16584	16810
24	99661	98265	98962	96955	99437
25	12838	12807	12702	12530	12663
26	14709	14745	14766	14427	14720
59	20384	20293	20669	20127	20663
113	9353	9308	9317	9297	9521
115	29659	28766	28307	27399	27472
206	9642	9506	9636	9823	9876
207	8090	8081	8121	8206	8303
208	19858	20180	20175	20214	20371

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	0

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	28703.10	9.05	8.90 - 9.10	
24	168408.53	24.00	23.90 - 24.10	
25	21491.48	25.00	24.90 - 25.10	
26	24944.10	26.00	25.90 - 26.10	
59	37295.53	59.00	58.90 - 59.10	
113	18277.27	113.00	112.90 - 113.10	
115	55808.70	115.00	114.90 - 115.10	
206	19233.33	205.95	205.90 - 206.10	
207	16033.59	206.95	206.90 - 207.10	
208	39360.81	207.95	207.90 - 208.10	
220	0.80	220.15	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.62	0.778	0.900	
24	0.62	0.786	0.900	
25	0.62	0.788	0.900	
26	0.63	0.826	0.900	
59	0.57	0.777	0.900	
113	0.54	0.696	0.900	
115	0.53	0.728	0.900	
206	0.52	0.764	0.900	
207	0.52	0.776	0.900	
208	0.52	0.779	0.900	
220	0.45	0.843		

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode --- Nebulizer Gas 0.78 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	8.8 V	Deflect	15.2 V
Extract 2	-140.0 V	Cell Entrance	-30 V	Plate Bias	-50 V
Omega Bias	-70 V	Cell Exit	-50 V		

Cell Parameters

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

QP Parameters

Mass Gain	124	Axis Gain	0.9992	QP Bias	-4.0 V
Mass Offset	124	Axis Offset	-0.01		

Hardware Settings

Torch

Torch H	0.4 mm	Torch V	-0.3 mm
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EM

Discriminator	3.9 mV	Analog HV	2302 V	Pulse HV	1660 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		3743	37433.30			0.984	
89		13176	131758.18			0.835	
205		21039	210387.15			1.154	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	3744	3742	3799	3696	3736
89	13217	12993	13249	13158	13263
205	20775	21092	21175	20809	21342

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	8.8 V	Deflect	4.4 V
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US EPA Tune Check Report

Extract 2	-140.0 V	Cell Entrance	-50 V	Plate Bias	-60 V
Omega Bias	-70 V	Cell Exit	-70 V		

Cell Parameters

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

QP Parameters

Mass Gain	124	Axis Gain	0.9992	QP Bias	-13.0 V
Mass Offset	124	Axis Offset	-0.01		

Hardware Settings

Torch

Torch H	0.4 mm	Torch V	-0.3 mm
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EM

Discriminator	3.9 mV	Analog HV	2302 V	Pulse HV	1660 V
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