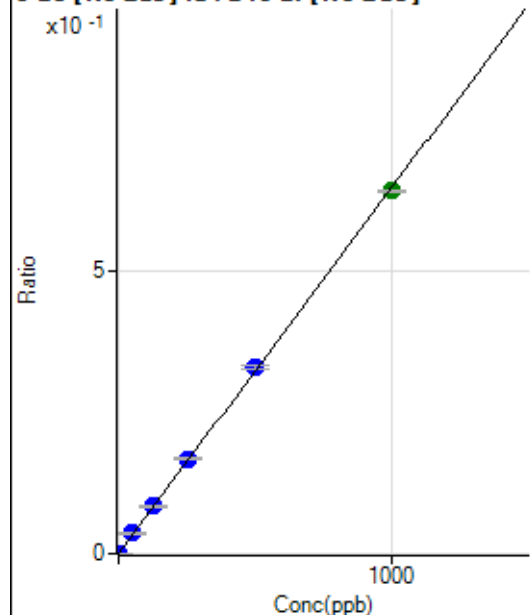


Batch Folder: D:\Agilent\ICPMH\1\DATA\P8022423MS.b\
Analysis File: P8022423MS.batch.bin
DA Date-Time: 2023-02-24 17:11:33
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.d	S00	2023-02-24 14:10:21
2	005CALS.d	S02	2023-02-24 14:13:34
3	006CALS.d	S03	2023-02-24 14:16:49
4	007CALS.d	S04	2023-02-24 14:20:00
5	008CALS.d	S05	2023-02-24 14:23:09
6	009CALS.d	S06	2023-02-24 14:26:15
7	010CALS.d	S07	2023-02-24 14:29:24
8	011CALS.d	S08	2023-02-24 14:32:31

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	144.57	0.0001	P	14.2
2	☐	1.000	1.066	1800.31	0.0007	P	5.1
3	☐	50.000	55.134	85922.66	0.0357	P	9.6
4	☐	125.000	130.402	211141.26	0.0844	P	3.4
5	☐	250.000	258.775	416906.49	0.1675	P	1.1
6	☐	500.000	509.741	804470.88	0.3299	P	1.6
7	☐	1000.000	992.004	1557720.39	0.6419	A	0.8
8	☐			602.44	0.0003	P	4.3

$$y = 6.4700\text{E-}004 * x + 5.7533\text{E-}005$$

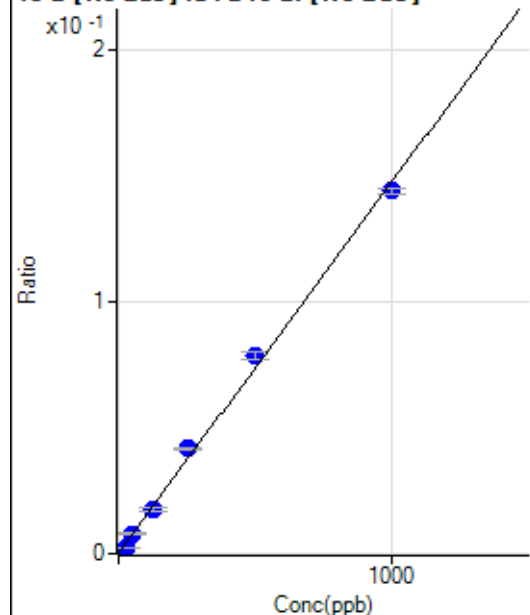
$$R = 0.9999$$

$$DL = 0.038$$

$$BEC = 0.08892$$

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	544.57	0.0002	P	7.7
2	☐	25.000	13.834	5427.27	0.0023	P	9.5
3	☐	50.000	51.246	18657.46	0.0078	P	12.5
4	☐	125.000	118.421	44173.85	0.0177	P	5.3
5	☐	250.000	281.516	103841.01	0.0417	P	2.4
6	☐	500.000	531.795	191635.55	0.0786	P	4.4
7	☐	1000.000	977.263	350085.86	0.1443	P	1.9
8	☐			19308.23	0.0083	P	6.3

$$y = 1.4740\text{E-}004 * x + 2.1675\text{E-}004$$

$$R = 0.9984$$

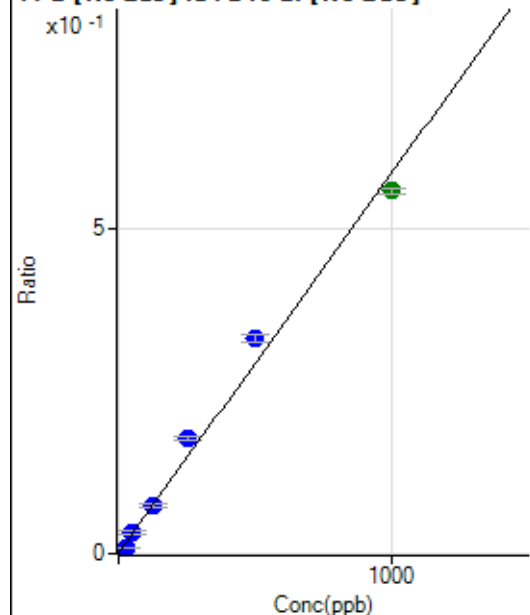
$$DL = 0.3417$$

$$BEC = 1.47$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2423.06	0.0010	P	2.4
2	☐	25.000	14.896	23259.12	0.0097	P	9.4
3	☐	50.000	54.806	79246.33	0.0330	P	11.6
4	☐	125.000	126.007	186445.71	0.0746	P	6.5
5	☐	250.000	301.197	440557.41	0.1770	P	2.7
6	☐	500.000	566.473	809474.11	0.3320	P	3.1
7	☐	1000.000	953.851	1354911.94	0.5583	A	1.7
8	☐			80405.05	0.0347	P	5.7

$$y = 5.8434\text{E-}004 * x + 9.6408\text{E-}004$$

$$R = 0.9946$$

$$DL = 0.1205$$

$$BEC = 1.65$$

Weight: <None>

Min Conc: 0

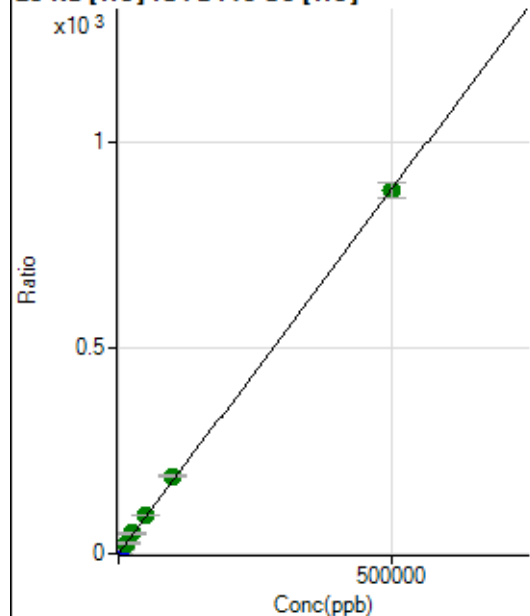
12 C [No Gas] No available calibration points



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			3096299.64		A	0.4
2	☐			3221247.51		A	1.0
3	☐			3466040.49		A	2.2
4	☐			3510350.64		A	1.3
5	☐			3772849.26		A	2.4
6	☐			3832180.73		A	0.9
7	☐			4388448.71		A	3.3
8	☐			3701565.84		A	0.6

12 C [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			36206.18		P	2.0
2	☐			37737.96		P	0.7
3	☐			40681.78		P	0.8
4	☐			41581.52		P	1.9
5	☐			45841.48		P	1.4
6	☐			46649.44		P	2.0
7	☐			54523.72		P	2.3
8	☐			45011.24		P	2.2

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	12124.77	0.1629	P	0.8
2	☐	500.000	456.707	76179.82	0.9707	P	6.1
3	☐	5000.000	5104.591	712311.28	9.1915	P	5.3
4	☐	12500.000	14207.157	1738297.02	25.2915	A	8.4
5	☐	25000.000	28033.353	3545889.58	49.7462	A	3.3
6	☐	50000.000	53289.154	6767467.25	94.4167	A	1.3
7	☐	100000.00	105906.50	13338265.75	187.4823	A	2.1
8	☐	500000.00	498294.43	61314435.40	881.5081	A	4.1

$$y = 0.0018 * x + 0.1629$$

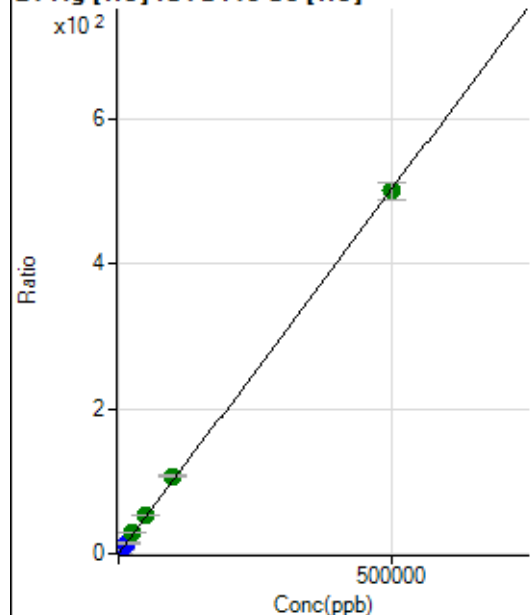
$$R = 0.9999$$

$$DL = 2.107$$

$$BEC = 92.12$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	1108.41	0.0149	P	2.9
2	☐	500.000	466.800	38017.04	0.4842	P	5.0
3	☐	5000.000	5065.237	395655.66	5.1074	P	6.3
4	☐	12500.000	14272.384	986173.30	14.3641	P	10.0
5	☐	25000.000	28046.343	2011111.85	28.2123	A	2.1
6	☐	50000.000	53199.257	3834844.92	53.5006	A	1.4
7	☐	100000.00	106575.86	7624613.80	107.1646	A	1.8
8	☐	500000.00	498167.65	34835658.07	500.8649	A	4.5

$$y = 0.0010 * x + 0.0149$$

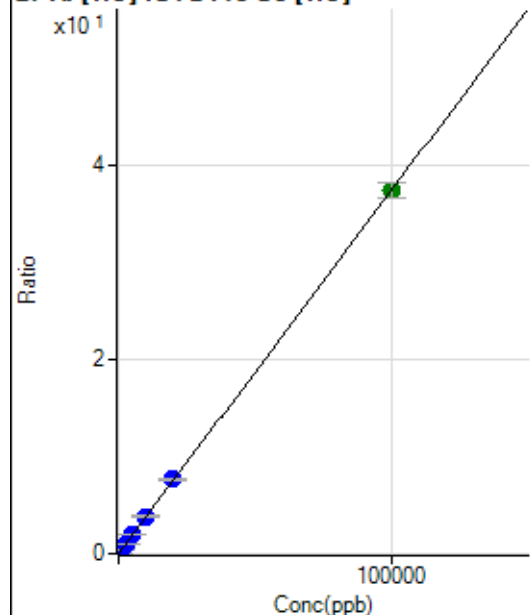
$$R = 0.9999$$

$$DL = 1.308$$

$$BEC = 14.82$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	77.07	0.0010	P	9.0
2	☐	20.000	18.234	616.61	0.0079	P	9.0
3	☐	1000.000	986.677	28685.37	0.3701	P	4.7
4	☐	2500.000	2749.341	70638.95	1.0293	P	10.6
5	☐	5000.000	5312.892	141725.93	1.9881	P	1.0
6	☐	10000.000	10228.112	274281.00	3.8264	P	1.8
7	☐	20000.000	20582.144	547778.42	7.6988	P	2.1
8	☐	100000.00	99839.015	2597255.61	37.3412	A	4.2

$$y = 3.7400E-004 * x + 0.0010$$

$$R = 1.0000$$

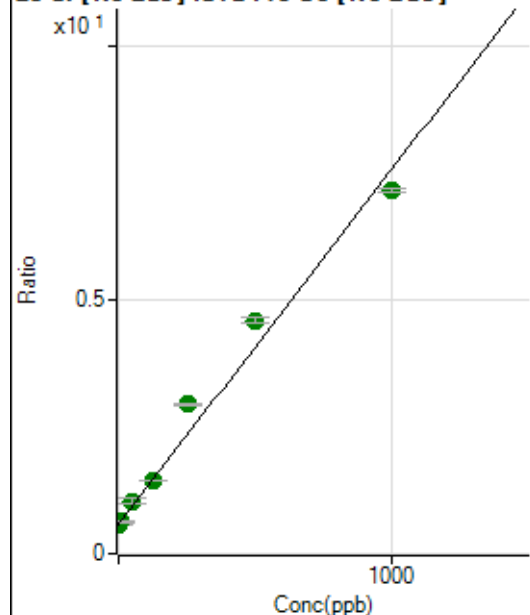
$$DL = 0.7501$$

$$BEC = 2.768$$

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	1224010.20	0.5785	A	2.6
2	☐	10.000	6.850	1252472.10	0.6263	A	8.4
3	☐	50.000	65.451	2061571.12	1.0356	A	11.8
4	☐	125.000	123.625	3049390.32	1.4419	A	1.9
5	☐	250.000	338.187	6146690.15	2.9405	A	0.8
6	☐	500.000	574.938	9557197.70	4.5941	A	2.6
7	☐	1000.000	939.915	14811325.16	7.1433	A	1.1
8	☐			1305180.04	0.6235	A	3.5

$$y = 0.0070 * x + 0.5785$$

$$R = 0.9905$$

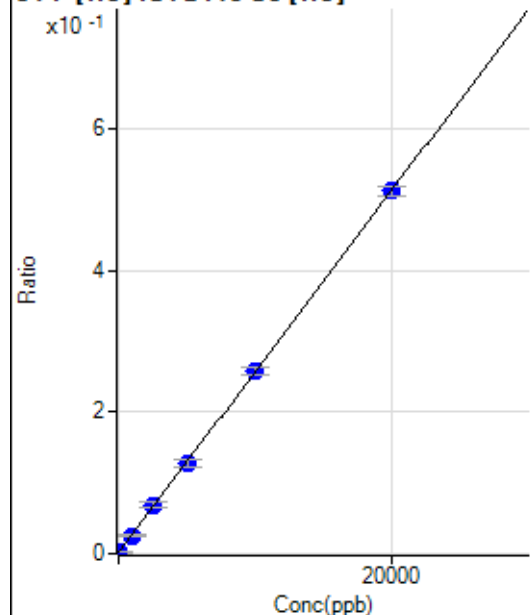
$$DL = 6.487$$

$$BEC = 82.83$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	-10.811	94.45	0.0013	P	32.9
2	☐	0.000	10.811	141.67	0.0018	P	30.9
3	☐	1000.000	918.507	1936.30	0.0250	P	8.3
4	☐	2500.000	2613.328	4684.21	0.0683	P	11.3
5	☐	5000.000	4929.051	9080.85	0.1274	P	6.8
6	☐	10000.000	10032.964	18476.09	0.2578	P	3.5
7	☐	20000.000	19991.164	36429.58	0.5120	P	2.9
8	☐			100.01	0.0014	P	15.8

$$y = 2.5537E-005 * x + 0.0015$$

$$R = 1.0000$$

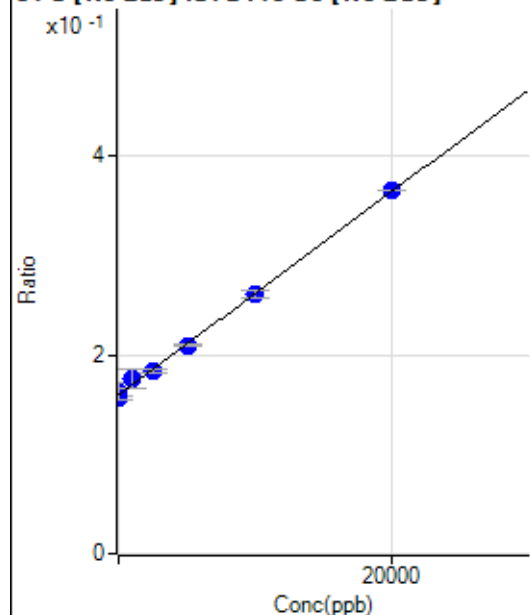
$$DL = 57.55$$

$$BEC = 60.44$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	-264.199	332693.95	0.1572	P	2.7
2	☐	0.000	264.199	324750.83	0.1626	P	10.6
3	☐	1000.000	1628.886	351811.34	0.1766	P	10.5
4	☐	2500.000	2266.678	387198.96	0.1831	P	2.2
5	☐	5000.000	4845.854	437818.20	0.2095	P	0.8
6	☐	10000.000	9947.832	544143.77	0.2616	P	3.1
7	☐	20000.000	20062.342	756775.72	0.3650	P	0.1
8	☐			294254.98	0.1405	P	0.6

$$y = 1.0220\text{E-}005 * x + 0.1599$$

$$R = 0.9990$$

$$DL = 3138$$

$$BEC = 1.565\text{E}+04$$

Weight: <None>

Min Conc: 0

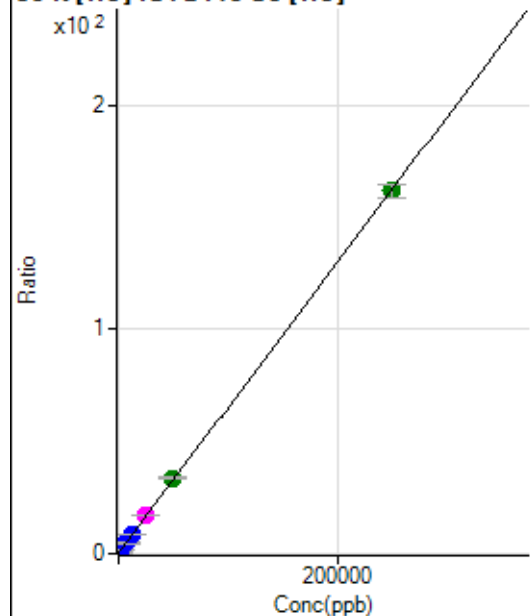
35 Cl [No Gas] No available calibration points



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			181189.07		P	1.2
2	☐			206366.25		P	0.4
3	☐			211864.94		P	0.5
4	☐			213301.72		P	1.3
5	☐			207163.39		P	0.7
6	☐			208778.06		P	1.3
7	☐			209871.07		P	0.1
8	☐			202709.19		P	1.0

35 Cl [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1408.44		P	8.7
2	☐			1494.57		P	7.6
3	☐			1547.35		P	7.0
4	☐			1516.78		P	7.2
5	☐			1619.58		P	3.9
6	☐			1472.33		P	2.4
7	☐			1597.35		P	7.1
8	☐			1291.76		P	4.0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	25598.29	0.3441	P	3.4
2	☐	500.000	427.706	48733.02	0.6210	P	6.1
3	☐	2500.000	2416.802	147890.52	1.9089	P	6.0
4	☐	6250.000	6842.963	327670.66	4.7747	P	10.6
5	☐	12500.000	13076.857	628082.38	8.8109	P	1.8
6	☐	25000.000	25542.311	1210045.30	16.8819	M	1.1
7	☐	50000.000	51729.876	2407804.52	33.8375	A	1.1
8	☐	250000.00	249557.10	11263528.46	161.9240	A	3.7

$$y = 6.4747E-004 * x + 0.3441$$

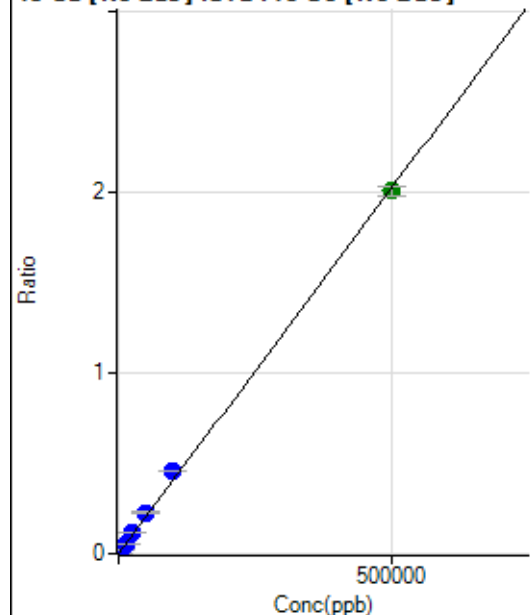
$$R = 1.0000$$

$$DL = 53.92$$

$$BEC = 531.4$$

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	98.74	0.0000	P	9.6
2	☐	500.000	516.893	4277.61	0.0021	P	8.3
3	☐	5000.000	6030.449	48694.49	0.0245	P	11.6
4	☐	12500.000	14092.630	120752.27	0.0571	P	1.5
5	☐	25000.000	28254.980	239183.85	0.1144	P	0.7
6	☐	50000.000	56541.429	476174.20	0.2289	P	3.5
7	☐	100000.00	113226.12	950413.06	0.4584	P	1.3
8	☐	500000.00	496487.74	4207758.46	2.0099	A	2.9

$$y = 4.0481\text{E-}006 * x + 4.6636\text{E-}005$$

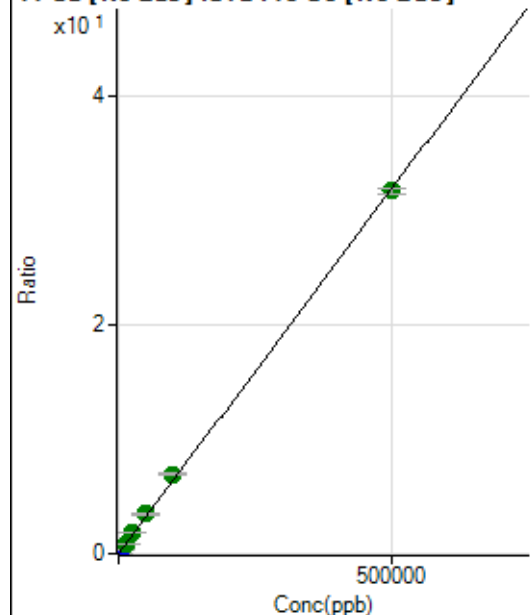
$$R = 0.9996$$

$$DL = 3.312$$

$$BEC = 11.52$$

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	6970.83	0.0033	P	2.3
2	☐	500.000	537.627	74910.56	0.0375	P	11.3
3	☐	5000.000	5939.896	759339.53	0.3815	P	12.1
4	☐	12500.000	13672.882	1848617.90	0.8740	A	2.6
5	☐	25000.000	28085.748	3745254.14	1.7918	A	0.9
6	☐	50000.000	54796.489	7264561.37	3.4927	A	3.6
7	☐	100000.00	108872.04	14384118.05	6.9361	A	1.5
8	☐	500000.00	497552.89	66338811.09	31.6867	A	1.6

$$y = 6.3679\text{E-}005 * x + 0.0033$$

$$R = 0.9998$$

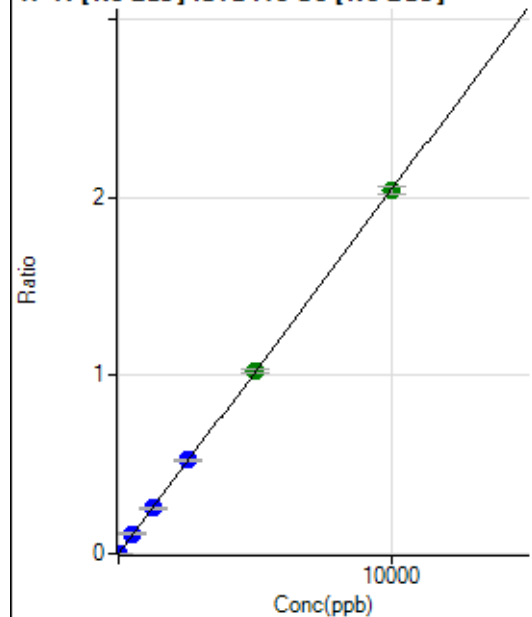
$$DL = 3.52$$

$$BEC = 51.73$$

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	166.68	0.0001	P	15.4
2	☐	5.000	4.933	2172.45	0.0011	P	11.1
3	☐	500.000	541.590	220563.59	0.1109	P	12.4
4	☐	1250.000	1246.852	539533.49	0.2551	P	1.1
5	☐	2500.000	2563.122	1096018.15	0.5243	P	0.6
6	☐	5000.000	5028.674	2140034.92	1.0286	A	1.9
7	☐	10000.000	9968.197	4227564.46	2.0389	A	2.1
8	☐			1052.84	0.0005	P	4.5

$$y = 2.0453\text{E-}004 * x + 7.8916\text{E-}005$$

$$R = 1.0000$$

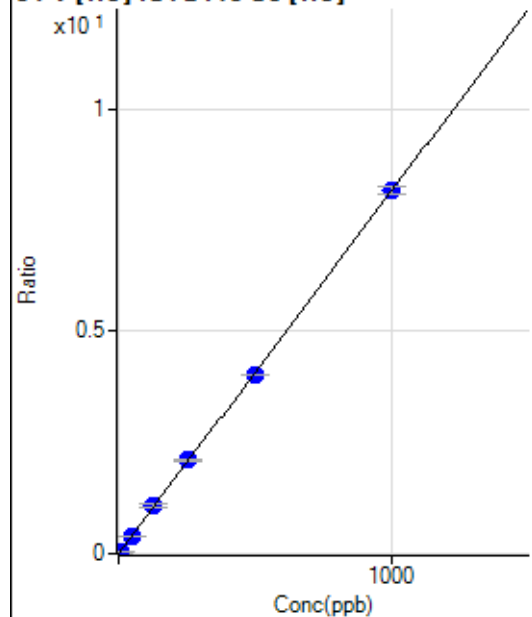
$$DL = 0.1788$$

$$BEC = 0.3858$$

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	0.0002	P	16.6
2	☐	5.000	4.491	2882.55	0.0368	P	11.8
3	☐	50.000	47.192	29818.95	0.3850	P	6.6
4	☐	125.000	132.598	74165.43	1.0814	P	11.6
5	☐	250.000	257.849	149895.57	2.1028	P	1.7
6	☐	500.000	493.971	288766.02	4.0282	P	0.5
7	☐	1000.000	1000.245	580369.51	8.1565	P	2.2
8	☐			196.67	0.0028	P	5.6

$$y = 0.0082 * x + 1.6441\text{E-}004$$

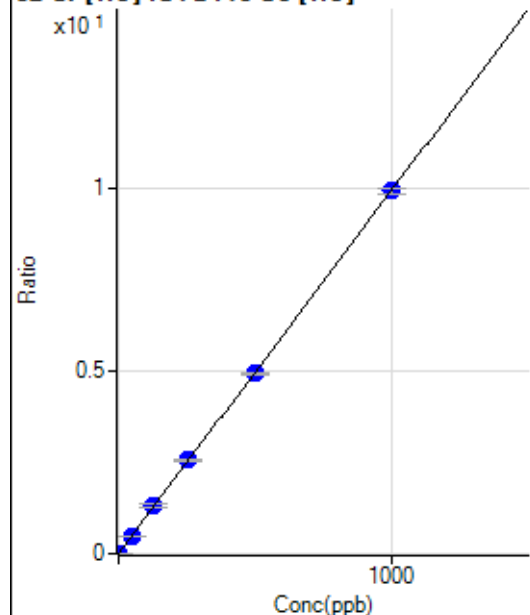
$$R = 0.9999$$

$$DL = 0.01006$$

$$BEC = 0.02016$$

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	277.78	0.0037	P	16.0
2	☐	2.000	1.660	1583.44	0.0202	P	10.2
3	☐	50.000	48.001	37178.37	0.4799	P	6.2
4	☐	125.000	130.864	89379.85	1.3019	P	10.1
5	☐	250.000	257.629	182448.74	2.5595	P	2.0
6	☐	500.000	496.490	353339.23	4.9290	P	1.1
7	☐	1000.000	999.215	705526.08	9.9161	P	1.9
8	☐			6344.81	0.0912	P	4.5

$$y = 0.0099 * x + 0.0037$$

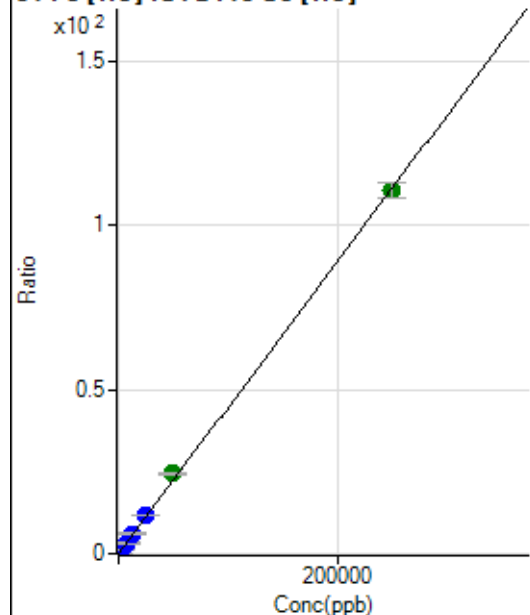
$$R = 0.9999$$

$$DL = 0.1809$$

$$BEC = 0.3765$$

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	450.01	0.0060	P	20.7
2	☐	50.000	45.421	2057.60	0.0262	P	3.5
3	☐	2500.000	2558.864	88383.81	1.1408	P	6.2
4	☐	6250.000	7014.827	213913.79	3.1169	P	10.5
5	☐	12500.000	13650.734	431922.96	6.0597	P	3.5
6	☐	25000.000	26246.681	834847.08	11.6455	P	1.1
7	☐	50000.000	55089.856	1738568.95	24.4365	A	2.4
8	☐	250000.00	248780.11	7673961.17	110.3315	A	4.3

$$y = 4.4347E-004 * x + 0.0060$$

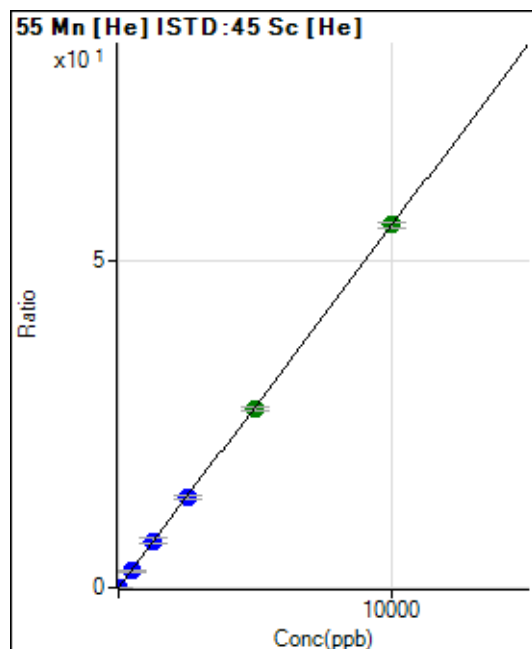
$$R = 0.9998$$

$$DL = 8.47$$

$$BEC = 13.63$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	97.78	0.0013	P	13.8
2	☐	1.000	0.942	512.24	0.0065	P	2.1
3	☐	500.000	459.778	196881.38	2.5425	P	7.2
4	☐	1250.000	1294.245	491218.58	7.1544	P	9.9
5	☐	2500.000	2501.242	985467.65	13.8254	P	3.1
6	☐	5000.000	4958.572	1964985.01	27.4067	A	2.3
7	☐	10000.000	10016.884	3938909.70	55.3634	A	1.9
8	☐			4198.44	0.0604	P	4.1

$$y = 0.0055 * x + 0.0013$$

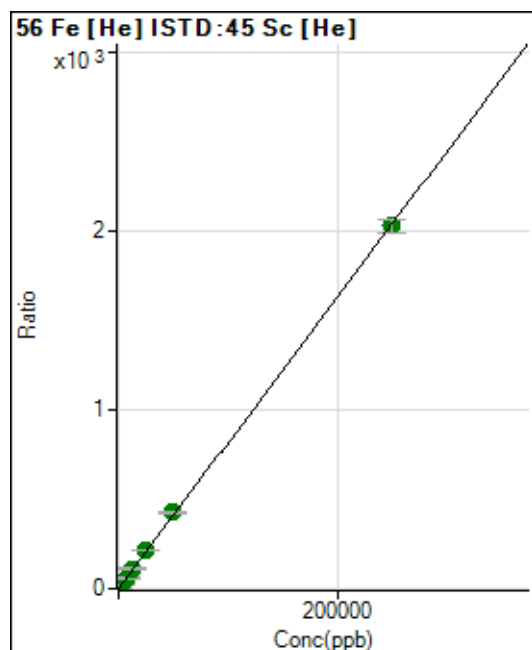
$$R = 1.0000$$

$$DL = 0.09826$$

$$BEC = 0.238$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2440.99	0.0328	P	6.5
2	☐	50.000	45.371	31496.12	0.4014	P	6.3
3	☐	2500.000	2557.668	1612290.21	20.8097	A	5.9
4	☐	6250.000	7190.084	4013501.19	58.4405	A	9.6
5	☐	12500.000	13844.579	8018864.47	112.4975	A	3.4
6	☐	25000.000	26096.273	15199902.89	212.0226	A	1.6
7	☐	50000.000	52347.397	30254779.38	425.2703	A	2.4
8	☐	250000.00	249329.58	140895255.9	2.025.430	A	3.4

$$y = 0.0081 * x + 0.0328$$

$$R = 0.9999$$

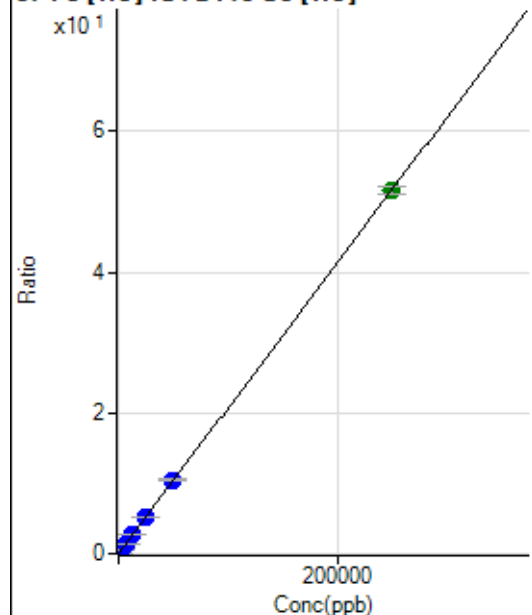
$$DL = 0.7869$$

$$BEC = 4.038$$

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	261.12	0.0035	P	12.9
2	☐	50.000	42.891	972.27	0.0124	P	0.9
3	☐	2500.000	2392.623	38530.01	0.4973	P	5.7
4	☐	6250.000	6780.198	96301.58	1.4027	P	10.0
5	☐	12500.000	13251.624	195183.26	2.7382	P	2.5
6	☐	25000.000	25183.194	372829.46	5.2004	P	1.7
7	☐	50000.000	50672.370	744224.78	10.4604	P	2.9
8	☐	250000.00	249797.44	3587412.23	51.5524	A	2.0

$$y = 2.0636E-004 * x + 0.0035$$

$$R = 1.0000$$

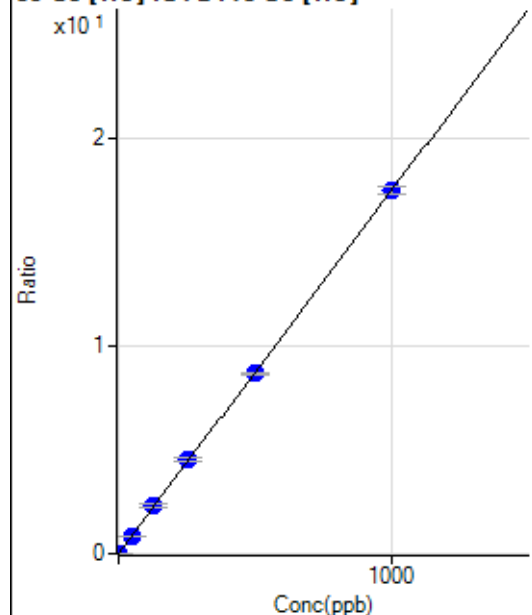
$$DL = 6.587$$

$$BEC = 17.02$$

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	110.00	0.0015	P	13.0
2	☐	1.000	0.896	1350.08	0.0172	P	1.1
3	☐	50.000	47.542	64623.67	0.8341	P	5.8
4	☐	125.000	131.664	158427.03	2.3072	P	9.8
5	☐	250.000	259.209	323669.19	4.5409	P	3.5
6	☐	500.000	495.238	621846.30	8.6744	P	0.7
7	☐	1000.000	999.369	1245313.42	17.5030	P	2.1
8	☐			1104.49	0.0159	P	3.1

$$y = 0.0175 * x + 0.0015$$

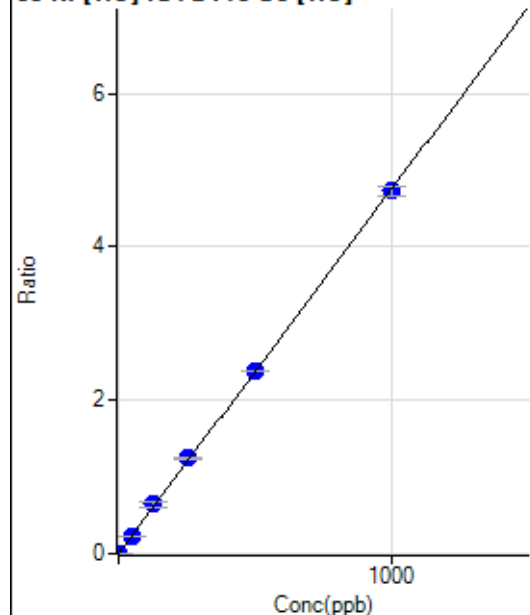
$$R = 0.9999$$

$$DL = 0.03293$$

$$BEC = 0.0844$$

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	46.67	0.0006	P	18.6
2	☐	1.000	0.911	387.79	0.0050	P	16.7
3	☐	50.000	48.263	17826.81	0.2299	P	3.9
4	☐	125.000	135.148	44131.71	0.6426	P	9.6
5	☐	250.000	261.283	88521.70	1.2418	P	1.8
6	☐	500.000	500.975	170634.79	2.3804	P	0.9
7	☐	1000.000	995.510	336483.84	4.7296	P	2.5
8	☐			1001.16	0.0144	P	3.3

$$y = 0.0048 * x + 6.2695E-004$$

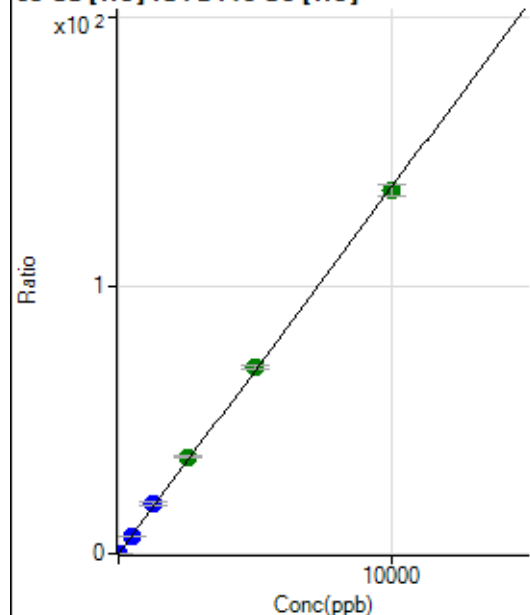
$$R = 0.9999$$

$$DL = 0.07355$$

$$BEC = 0.132$$

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	371.12	0.0050	P	11.9
2	☐	2.000	1.732	2252.43	0.0286	P	2.4
3	☐	500.000	482.428	511170.63	6.5965	P	5.4
4	☐	1250.000	1344.310	1262943.95	18.3725	P	8.2
5	☐	2500.000	2638.151	2569690.66	36.0504	A	2.9
6	☐	5000.000	5107.386	5002380.83	69.7878	A	1.8
7	☐	10000.000	9900.859	9624485.41	135.2816	A	3.1
8	☐			3051.47	0.0438	P	1.4

$$y = 0.0137 * x + 0.0050$$

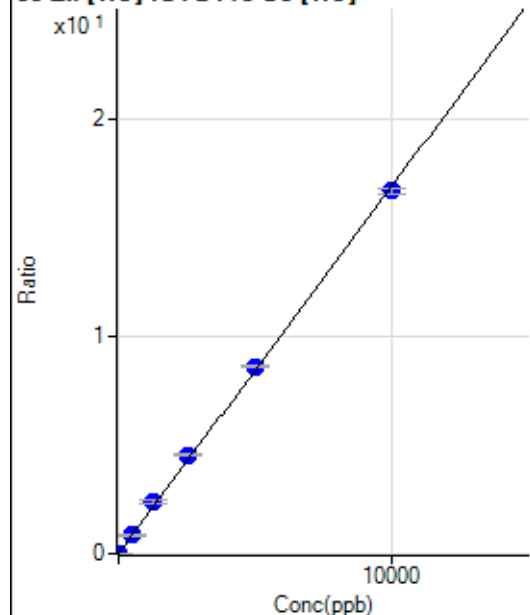
$$R = 0.9998$$

$$DL = 0.1302$$

$$BEC = 0.365$$

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	92.22	0.0012	P	12.5
2	☐	2.000	2.086	374.46	0.0048	P	3.6
3	☐	500.000	509.023	66713.02	0.8609	P	5.6
4	☐	1250.000	1411.074	163862.22	2.3844	P	8.8
5	☐	2500.000	2678.608	322564.84	4.5252	P	2.5
6	☐	5000.000	5103.259	617959.57	8.6202	P	1.3
7	☐	10000.000	9883.133	1187686.08	16.6930	P	1.7
8	☐			1311.19	0.0189	P	9.2

$$y = 0.0017 * x + 0.0012$$

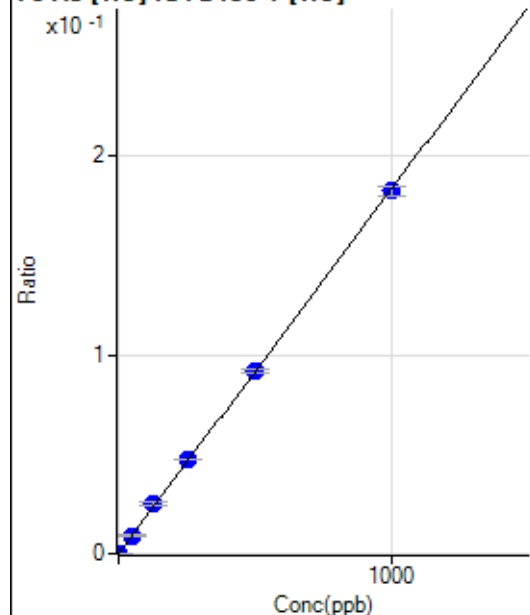
$$R = 0.9996$$

$$DL = 0.2748$$

$$BEC = 0.7344$$

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	5.33	0.0000	P	65.2
2	☐	1.000	0.867	81.01	0.0002	P	5.8
3	☐	50.000	49.742	4247.41	0.0091	P	5.9
4	☐	125.000	136.631	10491.28	0.0251	P	9.6
5	☐	250.000	259.547	20837.07	0.0476	P	0.6
6	☐	500.000	502.043	40606.75	0.0920	P	1.8
7	☐	1000.000	995.151	80430.59	0.1824	P	2.6
8	☐			33.33	0.0001	P	7.2

$$y = 1.8326E-004 * x + 1.1750E-005$$

$$R = 0.9999$$

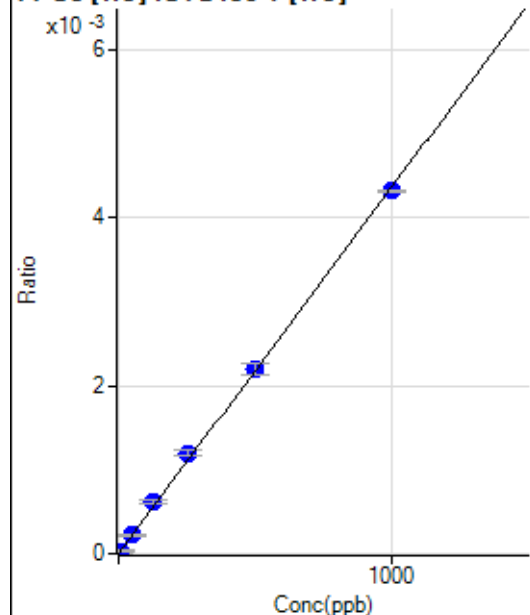
$$DL = 0.1253$$

$$BEC = 0.06412$$

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	6.456	14.44	0.0000	P	38.8
3	☐	50.000	51.340	105.56	0.0002	P	9.3
4	☐	125.000	143.406	263.34	0.0006	P	7.9
5	☐	250.000	273.347	523.35	0.0012	P	5.9
6	☐	500.000	502.602	968.93	0.0022	P	6.2
7	☐	1000.000	990.488	1906.81	0.0043	P	0.8
8	☐			3.33	0.0000	P	100.

$$y = 4.3621\text{E-}006 * x + 2.4735\text{E-}006$$

$$R = 0.9996$$

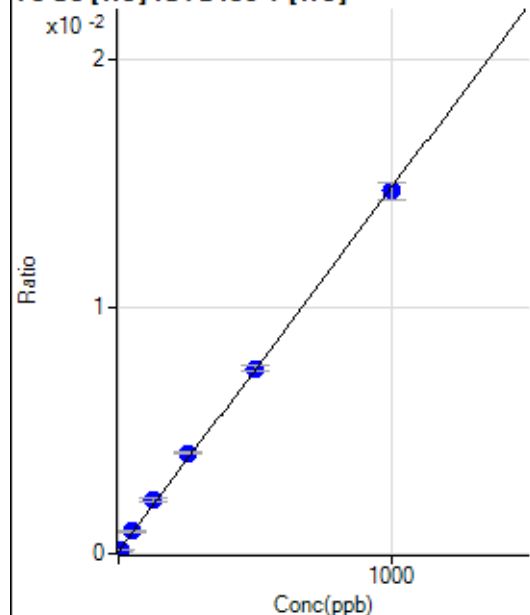
$$DL = 2.946$$

$$BEC = 0.567$$

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	40.33	0.0001	P	23.2
2	☐	5.000	5.347	80.01	0.0002	P	6.3
3	☐	50.000	55.538	423.05	0.0009	P	3.8
4	☐	125.000	141.107	910.79	0.0022	P	7.6
5	☐	250.000	269.339	1778.63	0.0041	P	2.0
6	☐	500.000	503.600	3316.40	0.0075	P	3.0
7	☐	1000.000	991.073	6485.49	0.0147	P	5.0
8	☐			48.01	0.0001	P	22.3

$$y = 1.4746\text{E-}005 * x + 8.9292\text{E-}005$$

$$R = 0.9997$$

$$DL = 4.215$$

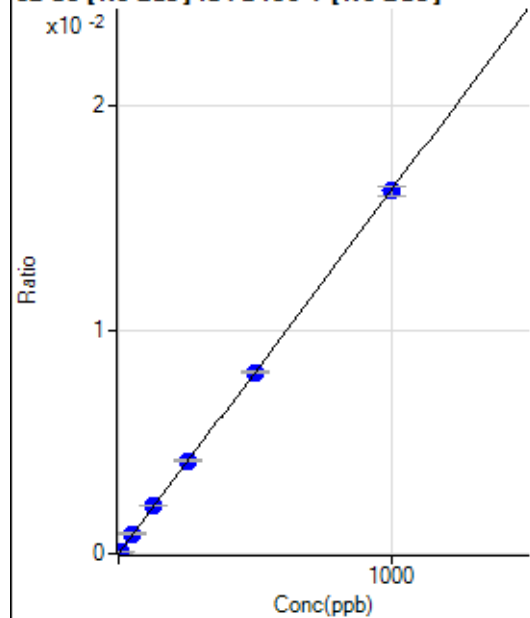
$$BEC = 6.055$$

Weight: <None>

Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			29080.18		P	2.1
2	☐			28565.31		P	0.6
3	☐			28404.97		P	1.5
4	☐			28421.54		P	1.2
5	☐			28140.75		P	4.9
6	☐			28267.94		P	2.5
7	☐			28130.92		P	1.9
8	☐			28638.99		P	1.3

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	21.67	0.0000	P	194.
2	☐	5.000	4.665	286.23	0.0001	P	17.8
3	☐	50.000	55.049	3057.52	0.0009	P	12.4
4	☐	125.000	130.838	7777.19	0.0021	P	2.3
5	☐	250.000	254.991	15246.24	0.0041	P	2.6
6	☐	500.000	499.587	29548.19	0.0081	P	0.2
7	☐	1000.000	997.978	58203.52	0.0162	P	2.6
8	☐			113.74	0.0000	P	30.8

$$y = 1.6234\text{E-}005 * x + 6.0038\text{E-}006$$

$$R = 1.0000$$

$$DL = 2.162$$

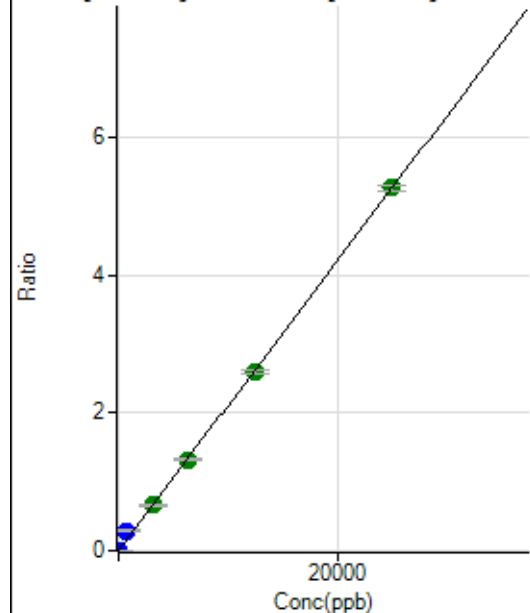
$$BEC = 0.3698$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			257.47		P	7.3
2	☐			251.22		P	6.5
3	☐			279.14		P	8.8
4	☐			272.89		P	2.8
5	☐			267.05		P	4.2
6	☐			257.05		P	12.7
7	☐			258.30		P	2.9
8	☐			237.06		P	11.3

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	436.13	0.0001	P	14.7
2	☐	1.000	1.164	1280.65	0.0004	P	6.0
3	☐	625.000	1361.983	973423.48	0.2865	P	12.4
4	☐	3125.000	3150.090	2418671.26	0.6624	A	2.0
5	☐	6250.000	6277.085	4854472.68	1.3198	A	1.8
6	☐	12500.000	12320.807	9430521.39	2.5905	A	2.1
7	☐	25000.000	25061.264	18925546.08	5.2690	A	1.4
8	☐			6560.09	0.0018	P	0.5

$$y = 2.1024\text{E-}004 * x + 1.1865\text{E-}004$$

$$R = 0.9995$$

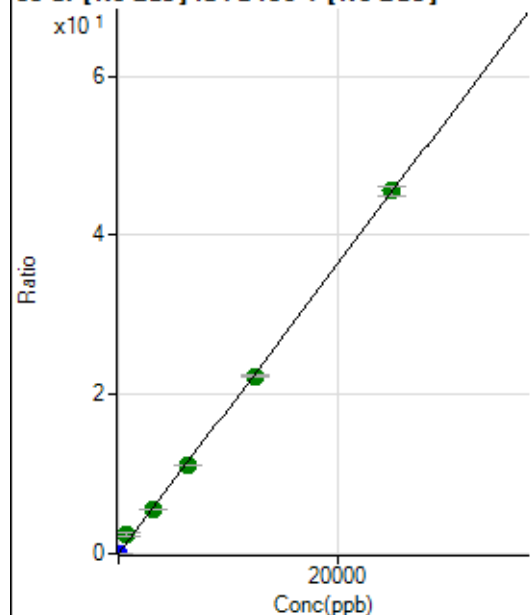
$$DL = 0.2492$$

$$BEC = 0.5644$$

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	247.23	0.0001	P	9.1
2	☐	1.000	0.977	6482.21	0.0018	P	5.6
3	☐	625.000	1323.591	8165030.74	2.4014	A	11.6
4	☐	3125.000	3079.347	20398577.19	5.5868	A	0.9
5	☐	6250.000	6165.257	41149806.82	11.1854	A	0.7
6	☐	12500.000	12298.284	81226654.59	22.3122	A	1.7
7	☐	25000.000	25110.286	163605984.2	45.5564	A	2.4
8	☐			51771.89	0.0141	P	1.7

$$y = 0.0018 * x + 6.7188E-005$$

$$R = 0.9995$$

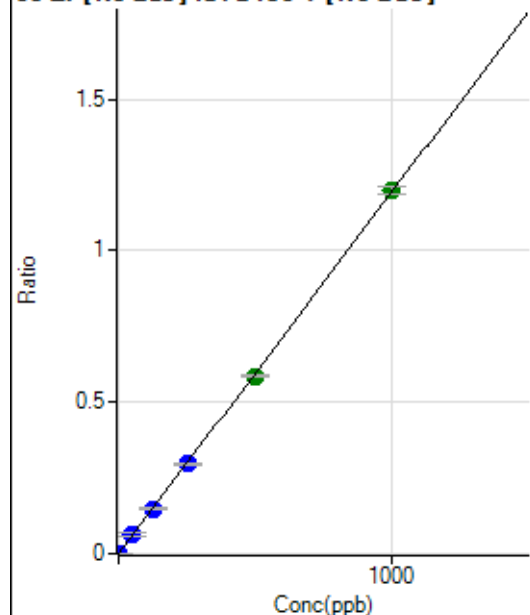
$$DL = 0.01014$$

$$BEC = 0.03703$$

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	180.56	0.0000	P	23.8
2	☐	1.000	0.898	3945.11	0.0011	P	4.8
3	☐	50.000	52.784	214055.11	0.0630	P	11.8
4	☐	125.000	124.802	543304.62	0.1488	P	1.4
5	☐	250.000	248.269	1088804.40	0.2960	P	0.6
6	☐	500.000	491.291	2132040.91	0.5856	A	1.2
7	☐	1000.000	1004.673	4301488.81	1.1976	A	2.2
8	☐			1380.66	0.0004	P	8.5

$$y = 0.0012 * x + 4.9108E-005$$

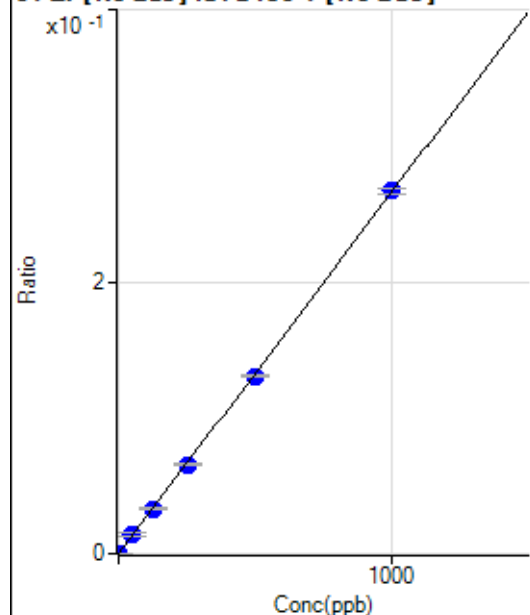
$$R = 0.9999$$

$$DL = 0.02937$$

$$BEC = 0.0412$$

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	36.11	0.0000	P	34.3
2	☐	1.000	0.948	922.28	0.0003	P	10.7
3	☐	50.000	53.027	47927.66	0.0141	P	12.0
4	☐	125.000	124.326	120647.02	0.0330	P	1.7
5	☐	250.000	247.288	241719.65	0.0657	P	1.8
6	☐	500.000	491.548	475551.59	0.1306	P	1.2
7	☐	1000.000	1004.837	959002.42	0.2670	P	1.4
8	☐			252.79	0.0001	P	7.3

$$y = 2.6571\text{E-}004 * x + 9.7914\text{E-}006$$

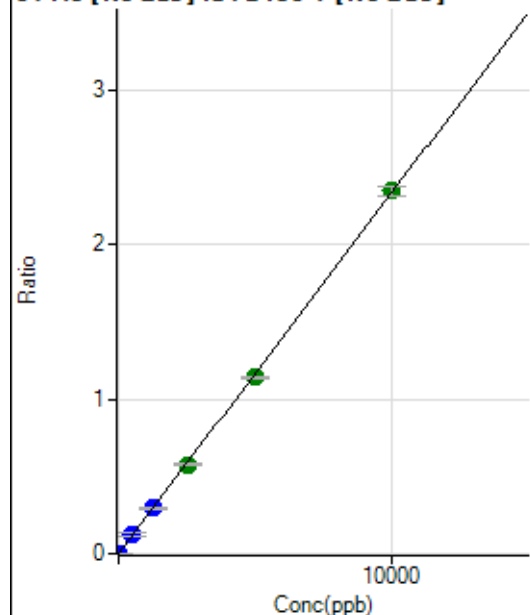
$$R = 0.9999$$

$$DL = 0.03791$$

$$BEC = 0.03685$$

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	91.67	0.0000	P	28.7
2	☐	5.000	5.474	4573.10	0.0013	P	13.4
3	☐	500.000	537.295	426272.62	0.1254	P	12.2
4	☐	1250.000	1258.145	1072181.24	0.2937	P	1.3
5	☐	2500.000	2477.443	2127115.02	0.5782	A	0.7
6	☐	5000.000	4889.002	4154214.07	1.1411	A	0.6
7	☐	10000.000	10058.255	8430444.03	2.3475	A	2.4
8	☐			2955.96	0.0008	P	3.3

$$y = 2.3339\text{E-}004 * x + 2.4985\text{E-}005$$

$$R = 0.9999$$

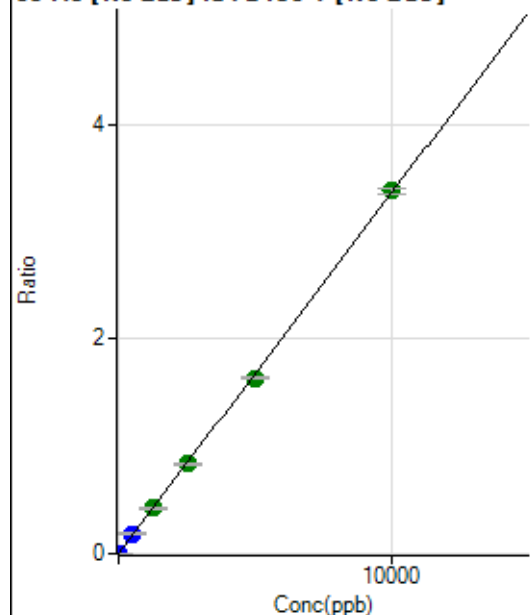
$$DL = 0.09226$$

$$BEC = 0.1071$$

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	88.89	0.0000	P	28.0
2	☐	5.000	4.776	5734.67	0.0016	P	7.5
3	☐	500.000	540.351	617634.70	0.1816	P	11.5
4	☐	1250.000	1262.370	1549013.13	0.4243	A	2.1
5	☐	2500.000	2491.473	3079783.69	0.8374	A	2.5
6	☐	5000.000	4874.042	5963603.26	1.6381	A	1.0
7	☐	10000.000	10061.547	12145424.75	3.3815	A	1.2
8	☐			4336.93	0.0012	P	0.6

$$y = 3.3608\text{E-}004 * x + 2.4147\text{E-}005$$

$$R = 0.9999$$

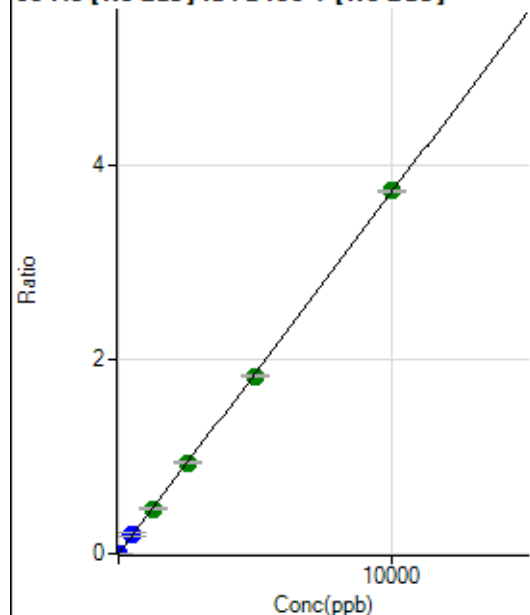
$$DL = 0.06029$$

$$BEC = 0.07185$$

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	111.12	0.0000	P	47.3
2	☐	5.000	5.004	6657.34	0.0019	P	3.4
3	☐	500.000	535.466	676040.90	0.1989	P	11.8
4	☐	1250.000	1249.770	1694276.02	0.4641	A	2.6
5	☐	2500.000	2509.023	3426779.16	0.9317	A	2.3
6	☐	5000.000	4909.539	6636912.65	1.8230	A	1.6
7	☐	10000.000	10041.230	13393415.41	3.7285	A	0.4
8	☐			8433.33	0.0023	P	2.1

$$y = 3.7132\text{E-}004 * x + 3.0055\text{E-}005$$

$$R = 0.9999$$

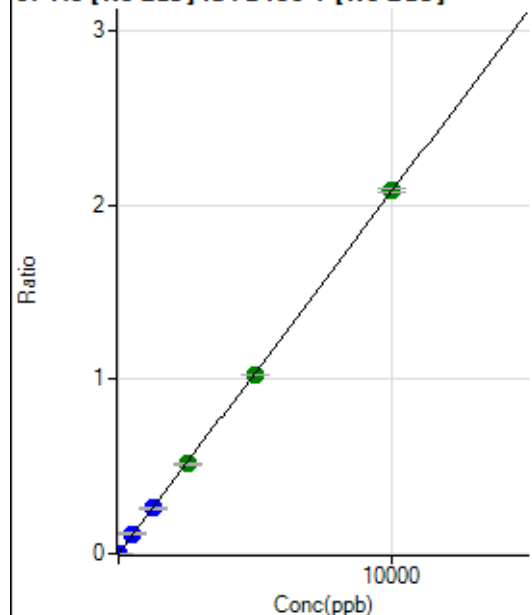
$$DL = 0.1149$$

$$BEC = 0.08094$$

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	25.00	0.0000	P	100.
2	☐	5.000	4.955	3636.69	0.0010	P	10.7
3	☐	500.000	539.031	379929.92	0.1118	P	11.9
4	☐	1250.000	1258.269	952411.73	0.2609	P	2.9
5	☐	2500.000	2497.308	1904508.49	0.5178	A	2.1
6	☐	5000.000	4937.806	3727231.38	1.0238	A	0.7
7	☐	10000.000	10028.785	7468425.08	2.0793	A	1.0
8	☐			2661.44	0.0007	P	4.9

$$y = 2.0733E-004 * x + 6.7359E-006$$

$$R = 1.0000$$

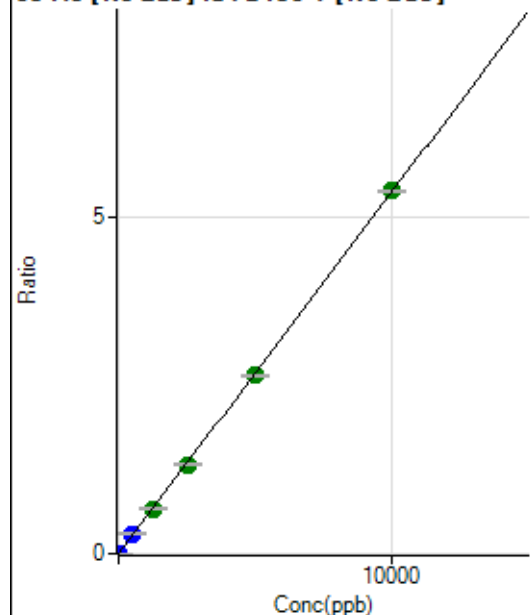
$$DL = 0.09757$$

$$BEC = 0.03249$$

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	77.78	0.0000	P	21.0
2	☐	5.000	4.930	9395.08	0.0027	P	8.7
3	☐	500.000	541.022	988313.73	0.2908	P	12.4
4	☐	1250.000	1247.869	2449225.86	0.6708	A	1.2
5	☐	2500.000	2466.824	4878151.97	1.3261	A	0.8
6	☐	5000.000	4934.944	9658021.74	2.6528	A	1.1
7	☐	10000.000	10039.037	19384929.25	5.3965	A	0.5
8	☐			6743.48	0.0018	P	7.5

$$y = 5.3755E-004 * x + 2.1099E-005$$

$$R = 0.9999$$

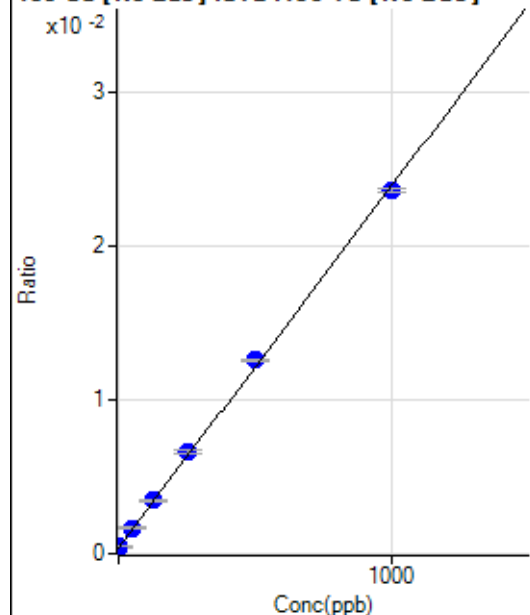
$$DL = 0.02471$$

$$BEC = 0.03925$$

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	1188.98	0.0004	P	5.4
2	☐	1.000	3.182	1341.77	0.0005	P	5.5
3	☐	50.000	54.506	4709.28	0.0017	P	9.2
4	☐	125.000	130.186	10537.62	0.0035	P	4.0
5	☐	250.000	265.508	20112.36	0.0066	P	2.2
6	☐	500.000	517.915	37610.34	0.0126	P	1.8
7	☐	1000.000	986.290	72837.50	0.0236	P	0.9
8	☐			1252.87	0.0004	P	5.5

$$y = 2.3540E-005 * x + 3.8675E-004$$

$$R = 0.9996$$

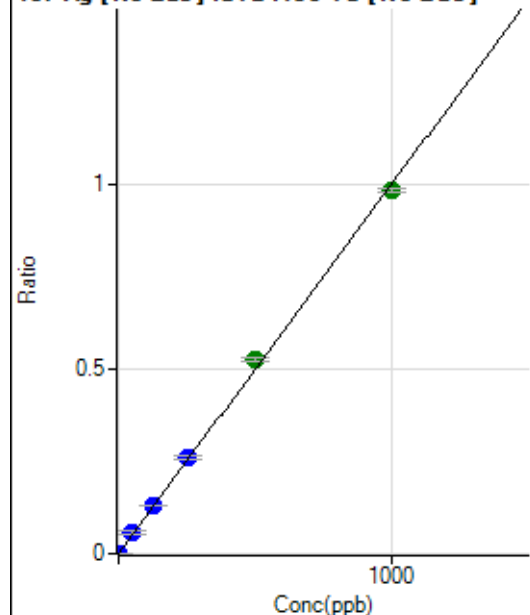
$$DL = 2.665$$

$$BEC = 16.43$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	41.67	0.0000	P	20.5
2	☐	1.000	1.064	3125.45	0.0011	P	8.8
3	☐	50.000	57.199	161403.70	0.0574	P	10.6
4	☐	125.000	130.824	400280.32	0.1312	P	1.2
5	☐	250.000	260.824	792247.74	0.2615	P	2.7
6	☐	500.000	527.386	1580397.01	0.5287	A	1.6
7	☐	1000.000	982.513	3039544.64	0.9849	A	1.0
8	☐			1714.05	0.0005	P	6.5

$$y = 0.0010 * x + 1.3558E-005$$

$$R = 0.9994$$

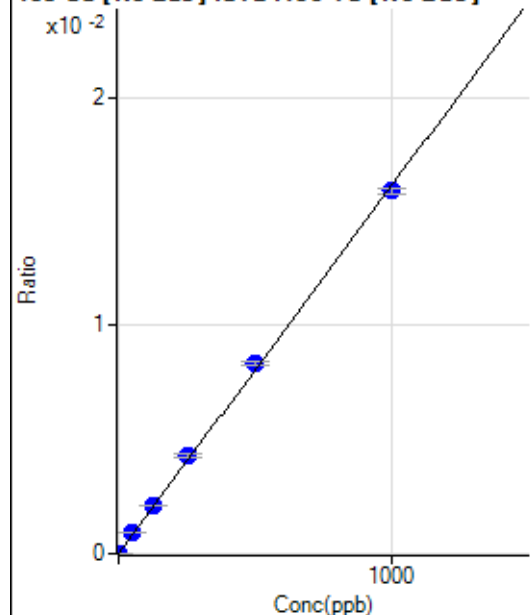
$$DL = 0.00833$$

$$BEC = 0.01353$$

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	8.33	0.0000	P	0.9
2	☐	1.000	0.956	52.78	0.0000	P	55.1
3	☐	50.000	57.352	2611.39	0.0009	P	8.3
4	☐	125.000	131.500	6472.43	0.0021	P	0.8
5	☐	250.000	265.286	12956.22	0.0043	P	4.3
6	☐	500.000	517.080	24901.80	0.0083	P	1.9
7	☐	1000.000	986.458	49032.82	0.0159	P	1.6
8	☐			44.44	0.0000	P	15.5

$$y = 1.6106\text{E-}005 * x + 2.7090\text{E-}006$$

$$R = 0.9996$$

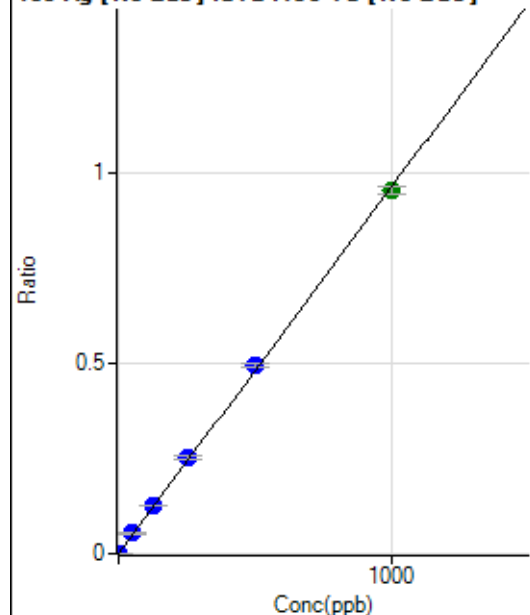
$$DL = 0.004342$$

$$BEC = 0.1682$$

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	11.11	0.0000	P	44.2
2	☐	1.000	1.043	2928.18	0.0010	P	4.6
3	☐	50.000	56.514	153397.28	0.0545	P	10.7
4	☐	125.000	129.441	381134.58	0.1249	P	0.8
5	☐	250.000	263.273	769349.29	0.2540	P	3.8
6	☐	500.000	512.342	1477440.07	0.4942	P	2.0
7	☐	1000.000	989.630	2945701.26	0.9547	A	2.2
8	☐			1330.66	0.0004	P	6.3

$$y = 9.6466\text{E-}004 * x + 3.6209\text{E-}006$$

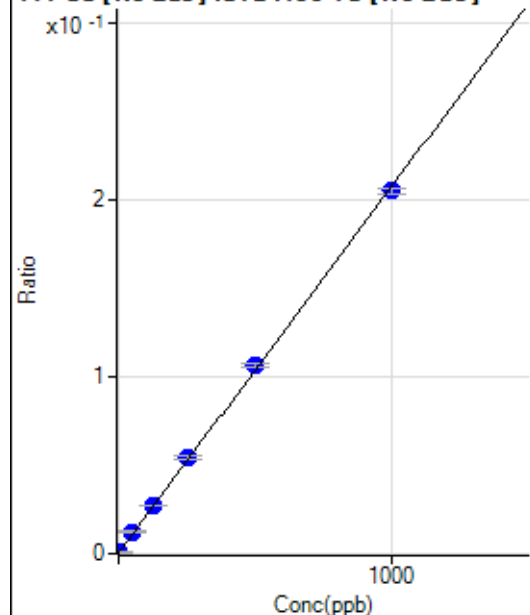
$$R = 0.9998$$

$$DL = 0.004975$$

$$BEC = 0.003754$$

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	852.84	0.0003	P	5.2
2	☐	1.000	1.321	1602.33	0.0006	P	6.6
3	☐	50.000	57.360	34293.82	0.0122	P	9.7
4	☐	125.000	131.347	84033.42	0.0275	P	0.5
5	☐	250.000	262.121	165626.63	0.0547	P	3.1
6	☐	500.000	514.459	319946.35	0.1070	P	2.2
7	☐	1000.000	988.579	633848.26	0.2054	P	1.4
8	☐			1070.90	0.0003	P	8.8

$$y = 2.0750\text{E-}004 * x + 2.7740\text{E-}004$$

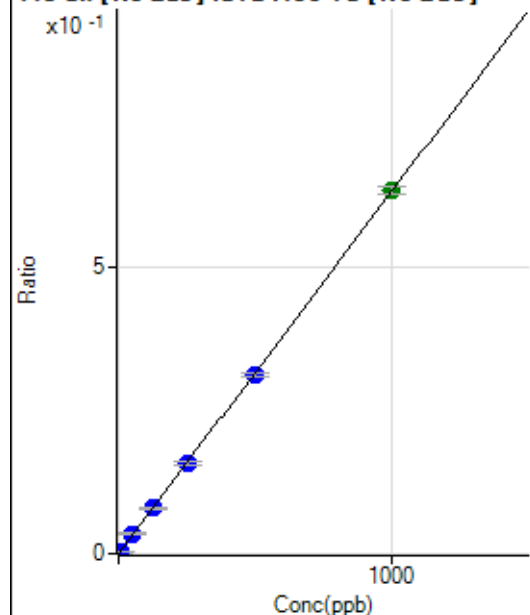
$$R = 0.9998$$

$$DL = 0.2092$$

$$BEC = 1.337$$

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	113.89	0.0000	P	11.7
2	☐	5.000	4.952	9156.07	0.0032	P	7.6
3	☐	50.000	53.429	95030.24	0.0337	P	9.2
4	☐	125.000	125.132	241019.06	0.0790	P	0.9
5	☐	250.000	252.021	481632.74	0.1590	P	4.1
6	☐	500.000	493.494	930603.54	0.3113	P	2.3
7	☐	1000.000	1002.560	1951565.69	0.6324	A	2.1
8	☐			2161.35	0.0007	P	3.6

$$y = 6.3078\text{E-}004 * x + 3.7054\text{E-}005$$

$$R = 1.0000$$

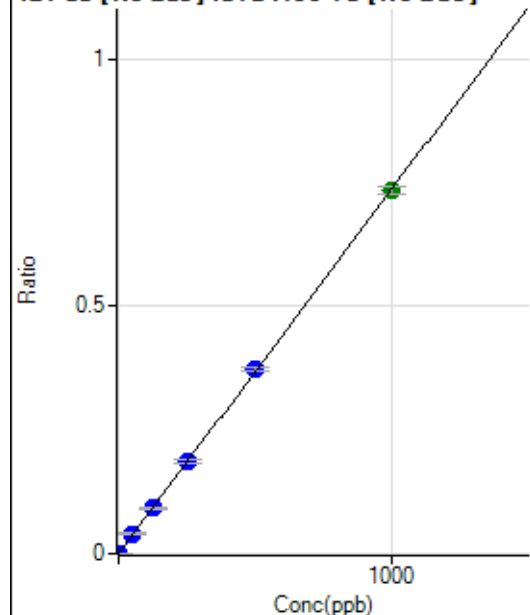
$$DL = 0.02061$$

$$BEC = 0.05874$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	58.34	0.0000	P	42.3
2	☐	2.000	1.970	4253.56	0.0015	P	9.0
3	☐	50.000	53.987	111896.33	0.0398	P	10.6
4	☐	125.000	124.459	279753.51	0.0917	P	0.7
5	☐	250.000	254.462	567533.78	0.1874	P	4.1
6	☐	500.000	505.035	1111566.59	0.3718	P	2.0
7	☐	1000.000	996.236	2263344.91	0.7335	A	2.2
8	☐			1741.83	0.0006	P	8.1

$$y = 7.3625\text{E-}004 * x + 1.8949\text{E-}005$$

$$R = 1.0000$$

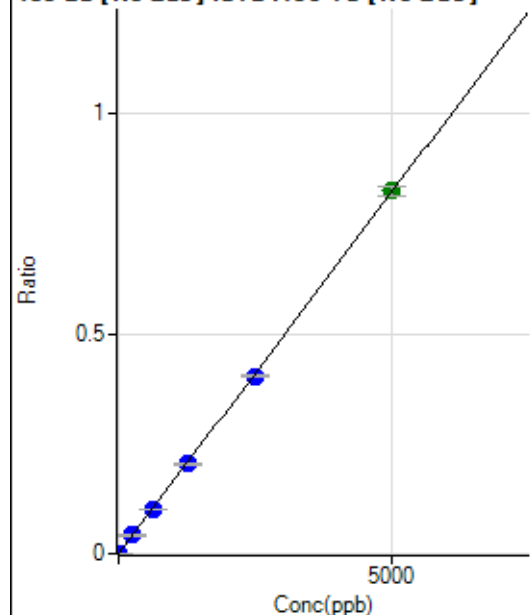
$$DL = 0.03267$$

$$BEC = 0.02574$$

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	47.22	0.0000	P	26.6
2	☐	10.000	9.983	4789.86	0.0017	P	7.1
3	☐	250.000	257.801	119104.64	0.0423	P	10.3
4	☐	625.000	616.044	308617.02	0.1011	P	0.6
5	☐	1250.000	1241.476	617197.65	0.2037	P	3.7
6	☐	2500.000	2460.772	1207144.17	0.4038	P	1.5
7	☐	5000.000	5022.475	2543457.04	0.8242	A	3.0
8	☐			1597.36	0.0005	P	12.3

$$y = 1.6410\text{E-}004 * x + 1.5350\text{E-}005$$

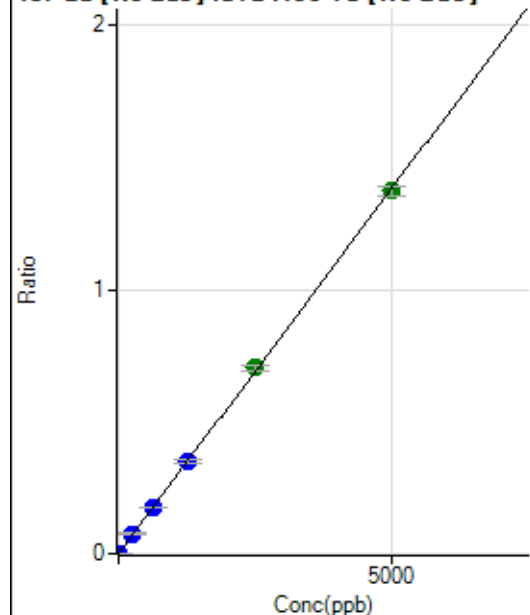
$$R = 0.9999$$

$$DL = 0.07475$$

$$BEC = 0.09354$$

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	55.56	0.0000	P	16.5
2	☐	10.000	9.874	7946.99	0.0027	P	9.0
3	☐	250.000	268.676	209058.79	0.0742	P	9.4
4	☐	625.000	625.393	527282.52	0.1728	P	1.8
5	☐	1250.000	1270.495	1063140.39	0.3510	P	4.1
6	☐	2500.000	2543.789	2100392.28	0.7027	A	2.3
7	☐	5000.000	4971.999	4237889.68	1.3735	A	2.5
8	☐			2514.20	0.0008	P	8.5

$$y = 2.7624E-004 * x + 1.8052E-005$$

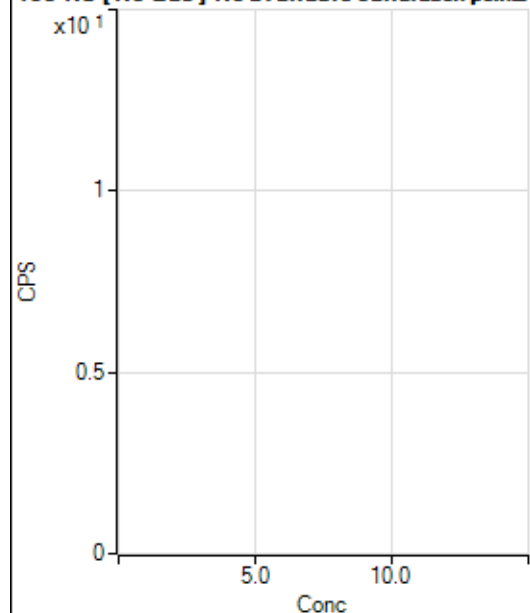
$$R = 0.9999$$

$$DL = 0.0324$$

$$BEC = 0.06535$$

Weight: <None>

Min Conc: 0

150 Nd [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			4.45		P	86.6
2	☐			11.11		P	69.3
3	☐			4.45		P	86.6
4	☐			40.00		P	66.7
5	☐			55.56		P	48.5
6	☐			144.45		P	11.6
7	☐			228.89		P	7.3
8	☐			28.89		P	26.6

150 Nd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1.11		P	173.
2	☐			1.11		P	173.
3	☐			3.33		P	0.0
4	☐			2.22		P	86.6
5	☐			3.33		P	0.0
6	☐			12.22		P	41.7
7	☐			23.33		P	28.6
8	☐			0.00		P	

156 Dy [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			22.22		P	114.
2	☐			11.11		P	43.3
3	☐			16.67		P	50.0
4	☐			63.89		P	52.7
5	☐			63.89		P	37.7
6	☐			105.56		P	16.4
7	☐			191.68		P	27.2
8	☐			466.69		P	23.4

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	100.
3	☐			8.89		P	43.3
4	☐			13.33		P	50.0
5	☐			27.78		P	30.2
6	☐			43.33		P	20.3
7	☐			86.67		P	10.2
8	☐			212.23		P	18.2

160 Gd [No Gas] Noavailable calibration poin_

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			16.67		P	NaN
2	☐			13.89		P	69.3
3	☐			36.11		P	35.3
4	☐			33.33		P	25.0
5	☐			30.56		P	78.7
6	☐			80.56		P	21.5
7	☐			163.89		P	33.9
8	☐			475.03		P	10.5

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			53.33		P	22.5
2	☐			45.56		P	22.4
3	☐			53.33		P	18.8
4	☐			51.11		P	26.4
5	☐			52.22		P	9.7
6	☐			72.22		P	21.8
7	☐			92.22		P	17.8
8	☐			311.12		P	9.1

164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			19.44		P	49.5
2	☐			25.00		P	88.2
3	☐			16.67		P	50.0
4	☐			22.22		P	57.3
5	☐			36.11		P	35.3
6	☐			38.89		P	44.6
7	☐			36.11		P	13.3
8	☐			36.11		P	70.5

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			7.78		P	24.7
2	☐			12.22		P	31.5
3	☐			12.22		P	56.8
4	☐			11.11		P	75.5
5	☐			11.11		P	17.3
6	☐			13.33		P	50.0
7	☐			21.11		P	77.9
8	☐			18.89		P	53.9

172 Yb [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			25.00		P	0.0
2	☐			19.45		P	24.7
3	☐			8.33		P	100.
4	☐			41.67		P	72.1
5	☐			22.22		P	21.6
6	☐			44.44		P	43.3
7	☐			61.11		P	34.3
8	☐			191.67		P	26.4

172 Yb [He] No available calibration points

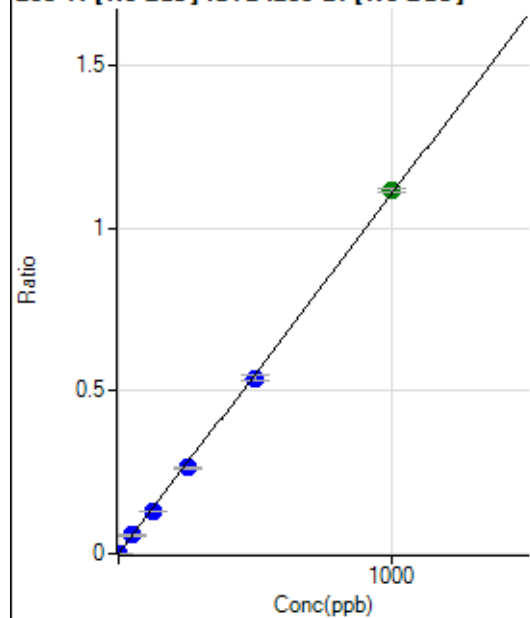
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			14.82		P	57.3
2	☐			12.96		P	107.
3	☐			12.96		P	65.4
4	☐			16.67		P	33.3
5	☐			16.67		P	88.2
6	☐			29.63		P	28.6
7	☐			24.07		P	35.2
8	☐			85.19		P	32.2

176 Yb [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			405.57		P	10.1
2	☐			419.47		P	16.7
3	☐			755.60		P	9.4
4	☐			1577.91		P	10.7
5	☐			2639.22		P	3.2
6	☐			4845.48		P	2.7
7	☐			9389.72		P	3.1
8	☐			527.80		P	11.4

176 Yb [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			3402.35		P	1.4
2	☐			3419.04		P	4.8
3	☐			3858.05		P	6.8
4	☐			3748.76		P	12.7
5	☐			4310.04		P	8.1
6	☐			5595.73		P	1.7
7	☐			7442.96		P	1.0
8	☐			3333.83		P	5.2

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	180.56	0.0001	P	22.8
2	☐	1.000	0.925	1958.55	0.0011	P	10.7
3	☐	50.000	51.125	96710.55	0.0565	P	10.2
4	☐	125.000	119.067	244640.91	0.1316	P	1.6
5	☐	250.000	239.566	476812.02	0.2646	P	1.9
6	☐	500.000	487.861	964326.39	0.5388	P	3.0
7	☐	1000.000	1009.364	2015247.64	1.1146	A	0.9
8	☐			658.37	0.0004	P	3.5

$$y = 0.0011 * x + 9.7071E-005$$

$$R = 0.9998$$

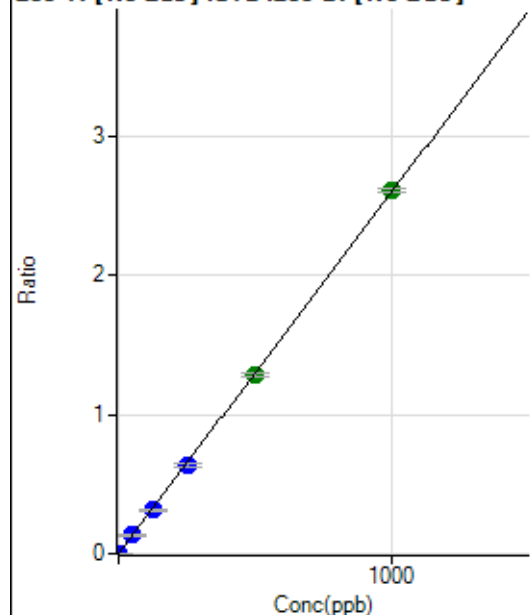
$$DL = 0.06005$$

$$BEC = 0.08792$$

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	308.35	0.0002	P	16.3
2	☐	1.000	0.919	4459.23	0.0025	P	11.8
3	☐	50.000	50.942	226507.55	0.1323	P	8.8
4	☐	125.000	120.517	581662.42	0.3128	P	2.3
5	☐	250.000	244.033	1140964.35	0.6332	P	3.0
6	☐	500.000	496.821	2307417.61	1.2890	A	2.0
7	☐	1000.000	1003.595	4707582.53	2.6037	A	0.9
8	☐			1539.03	0.0009	P	4.8

$$y = 0.0026 * x + 1.6593E-004$$

$$R = 1.0000$$

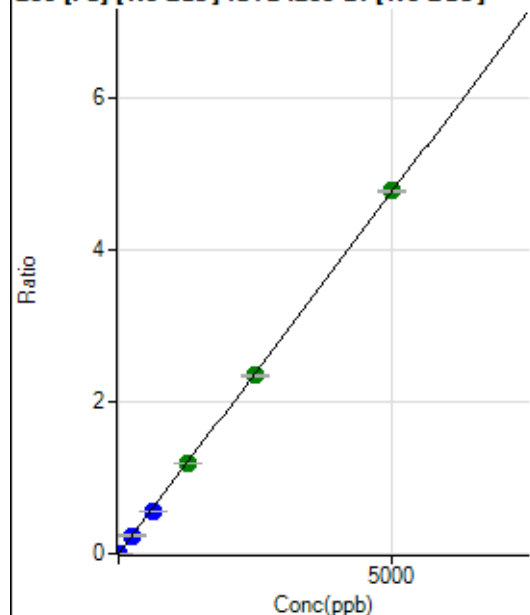
$$DL = 0.03124$$

$$BEC = 0.06396$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	290.75	0.0002	P	10.6
2	☐	1.000	0.855	1702.00	0.0010	P	6.7
3	☐	250.000	250.604	407954.79	0.2386	P	10.7
4	☐	625.000	589.680	1043694.88	0.5612	P	1.3
5	☐	1250.000	1252.665	2148337.75	1.1921	A	0.9
6	☐	2500.000	2466.927	4202768.24	2.3474	A	1.5
7	☐	5000.000	5020.255	8636992.79	4.7769	A	0.3
8	☐			2724.42	0.0016	P	5.0

$$y = 9.5149E-004 * x + 1.5651E-004$$

$$R = 0.9999$$

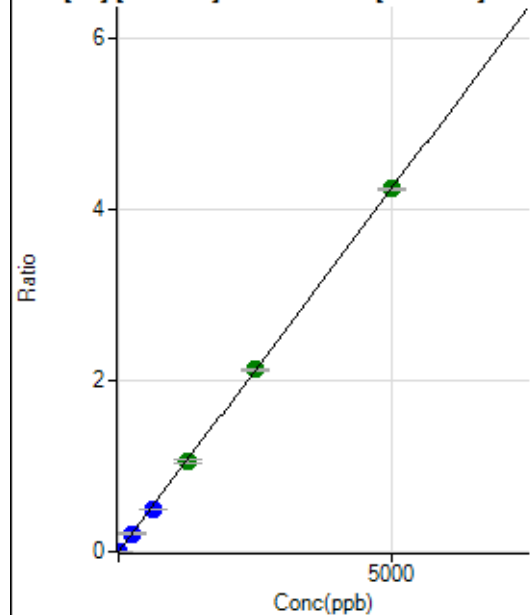
$$DL = 0.05223$$

$$BEC = 0.1645$$

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	285.19	0.0002	P	27.6
2	☐	1.000	0.920	1642.73	0.0009	P	4.0
3	☐	250.000	251.379	364702.27	0.2136	P	13.2
4	☐	625.000	582.398	919927.73	0.4948	P	2.6
5	☐	1250.000	1253.168	1917683.98	1.0644	A	3.5
6	☐	2500.000	2513.251	3821725.63	2.1346	A	1.1
7	☐	5000.000	4997.839	7674646.00	4.2446	A	0.5
8	☐			2202.08	0.0013	P	6.5

$$y = 8.4926\text{E-}004 * x + 1.5324\text{E-}004$$

$$R = 1.0000$$

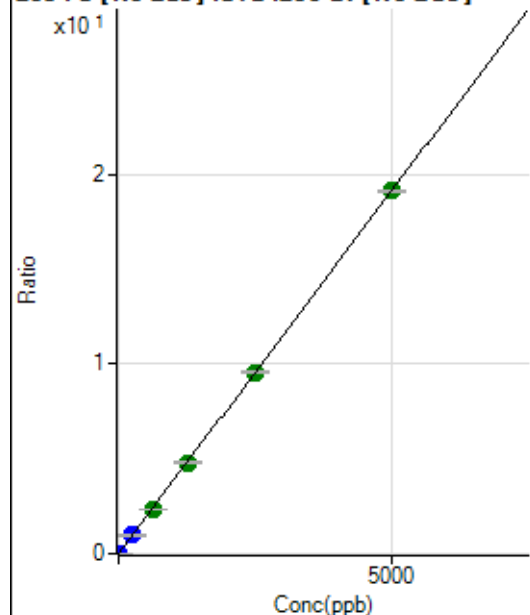
$$DL = 0.1496$$

$$BEC = 0.1804$$

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	1285.23	0.0007	P	6.5
2	☐	1.000	0.887	7180.56	0.0041	P	3.6
3	☐	250.000	252.050	1649050.89	0.9653	P	12.0
4	☐	625.000	607.247	4322844.92	2.3247	A	2.1
5	☐	1250.000	1251.711	8633463.67	4.7911	A	1.9
6	☐	2500.000	2500.669	17135682.04	9.5709	A	0.7
7	☐	5000.000	5001.354	34608468.83	19.1412	A	0.6
8	☐			10222.14	0.0060	P	3.9

$$y = 0.0038 * x + 6.9136\text{E-}004$$

$$R = 1.0000$$

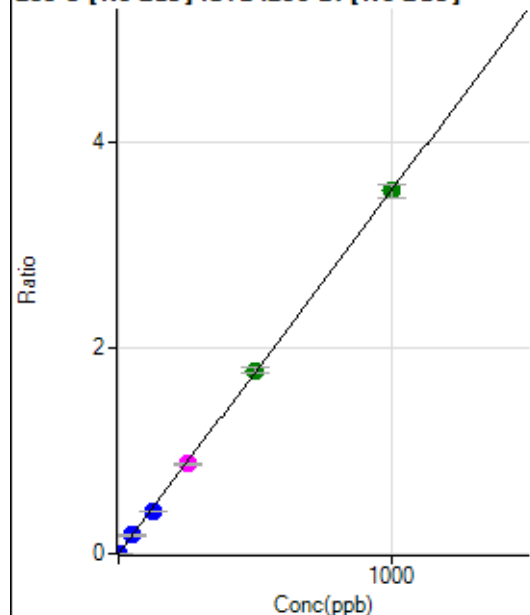
$$DL = 0.03533$$

$$BEC = 0.1807$$

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	202.79	0.0001	P	17.4
2	☐	1.000	0.921	5884.84	0.0034	P	9.9
3	☐	50.000	50.422	304733.88	0.1781	P	9.8
4	☐	125.000	116.729	766632.24	0.4122	P	0.8
5	☐	250.000	246.601	1568913.88	0.8707	M	3.5
6	☐	500.000	505.337	3194028.58	1.7842	A	2.6
7	☐	1000.000	999.194	6377468.94	3.5278	A	3.9
8	☐			766.71	0.0005	P	4.7

$$y = 0.0035 * x + 1.0920E-004$$

$$R = 0.9999$$

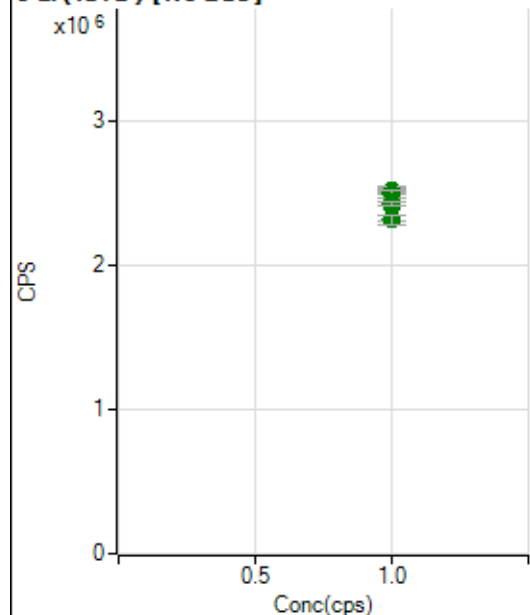
$$DL = 0.01616$$

$$BEC = 0.03093$$

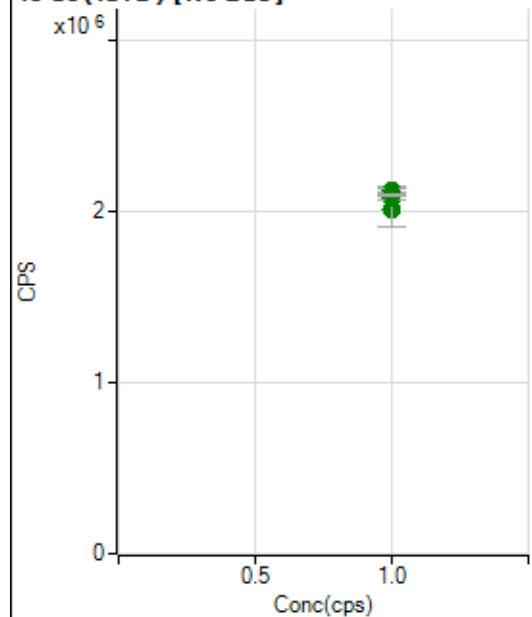
Weight: <None>

Min Conc: 0

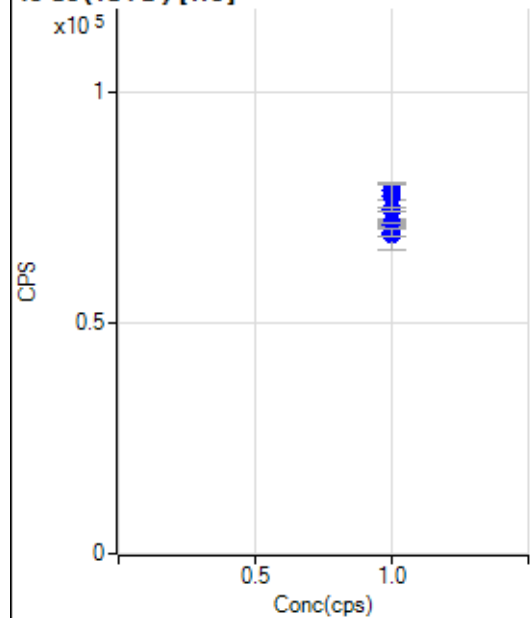
6 Li (ISTD) [No Gas]



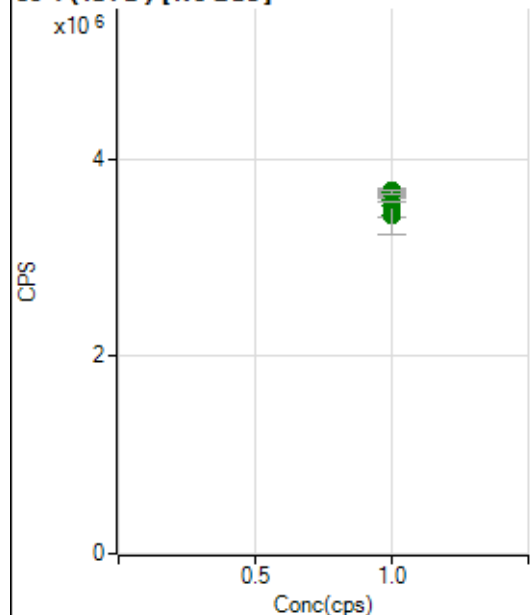
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2513307.97		A	1.0
2	☐	1.000		2414836.98		A	6.3
3	☐	1.000		2418527.01		A	8.9
4	☐	1.000		2502665.82		A	3.5
5	☐	1.000		2489530.11		A	1.7
6	☐	1.000		2439348.70		A	2.1
7	☐	1.000		2426717.24		A	0.8
8	☐	1.000		2314922.77		A	2.7

45 Sc (ISTD) [No Gas]

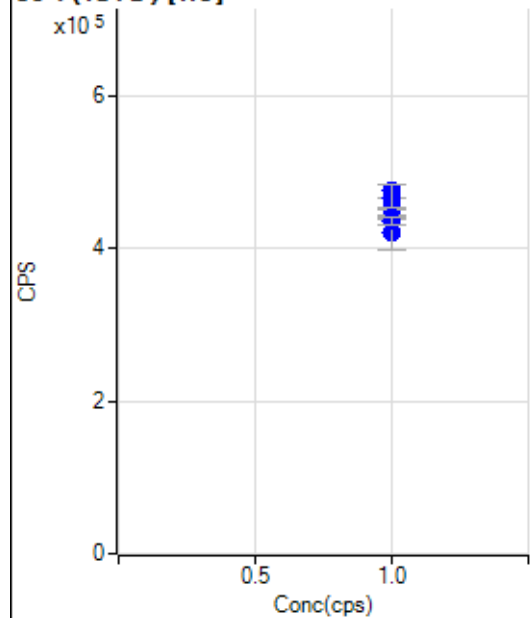
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2116644.92		A	2.1
2	☐	1.000		2010724.95		A	9.8
3	☐	1.000		2006944.97		A	10.4
4	☐	1.000		2115246.11		A	1.7
5	☐	1.000		2090348.54		A	0.7
6	☐	1.000		2080992.05		A	2.1
7	☐	1.000		2073572.42		A	1.3
8	☐	1.000		2093623.32		A	0.3

45 Sc (ISTD) [He]

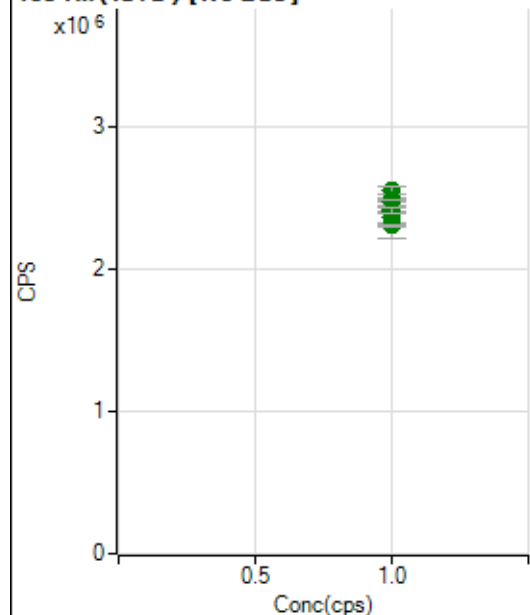
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		74409.55		P	1.1
2	☐	1.000		78621.64		P	4.6
3	☐	1.000		77673.01		P	6.5
4	☐	1.000		69116.77		P	10.0
5	☐	1.000		71291.52		P	0.8
6	☐	1.000		71683.68		P	1.3
7	☐	1.000		71153.06		P	1.0
8	☐	1.000		69603.53		P	2.5

89 Y (ISTD) [No Gas]

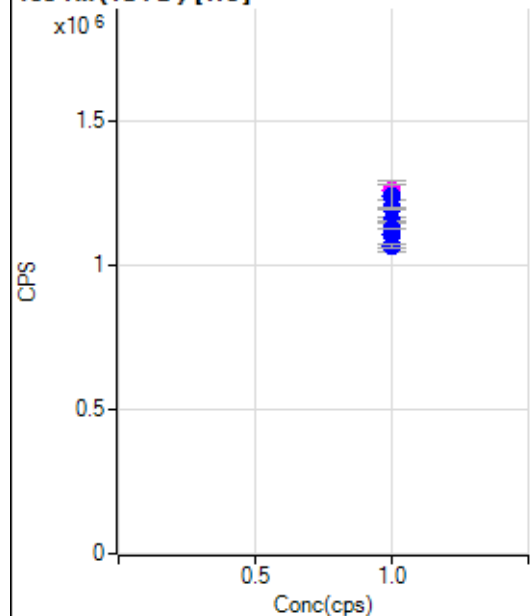
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3678715.05		A	1.6
2	☐	1.000		3531377.21		A	7.1
3	☐	1.000		3429663.42		A	11.2
4	☐	1.000		3651440.43		A	1.1
5	☐	1.000		3678715.08		A	1.3
6	☐	1.000		3640711.47		A	0.8
7	☐	1.000		3592039.29		A	1.3
8	☐	1.000		3670376.41		A	0.9

89 Y (ISTD) [He]

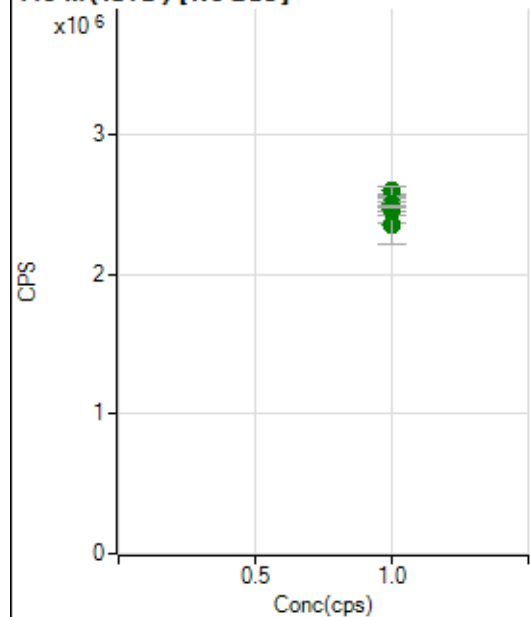
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		452268.54		P	0.8
2	☐	1.000		475269.76		P	3.6
3	☐	1.000		466597.95		P	6.9
4	☐	1.000		421630.02		P	10.6
5	☐	1.000		437973.87		P	0.2
6	☐	1.000		441336.56		P	0.7
7	☐	1.000		441083.63		P	1.2
8	☐	1.000		435729.00		P	1.9

103 Rh (ISTD) [No Gas]

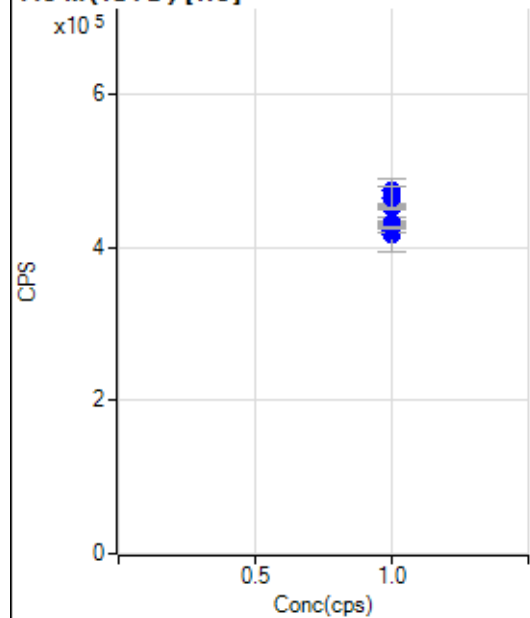
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2552299.04		A	2.2
2	☐	1.000		2412212.40		A	7.4
3	☐	1.000		2364746.11		A	12.1
4	☐	1.000		2486603.14		A	1.3
5	☐	1.000		2470907.98		A	1.4
6	☐	1.000		2427508.19		A	1.7
7	☐	1.000		2412862.81		A	1.9
8	☐	1.000		2309271.77		A	0.8

103 Rh (ISTD) [He]

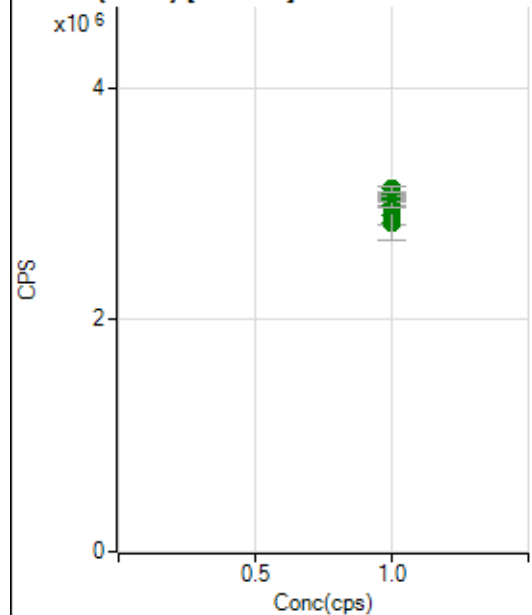
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1198607.50		P	0.5
2	☐	1.000		1259568.83		M	5.4
3	☐	1.000		1239039.58		P	7.1
4	☐	1.000		1106794.12		P	10.7
5	☐	1.000		1154499.68		P	0.4
6	☐	1.000		1150307.83		P	0.5
7	☐	1.000		1128710.57		P	0.4
8	☐	1.000		1069522.65		P	1.2

115 In (ISTD) [No Gas]

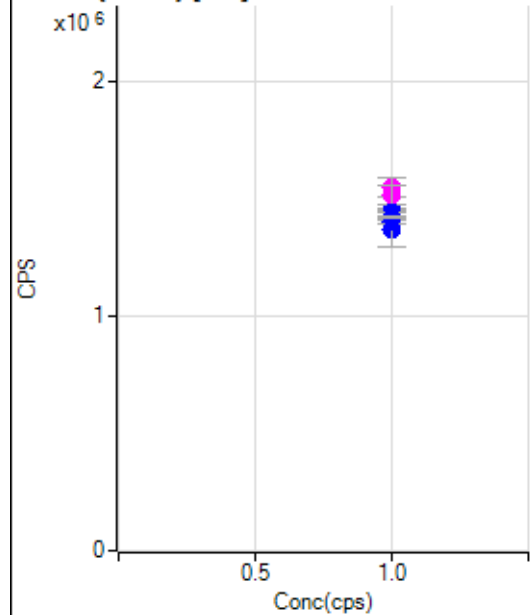
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2560817.98		A	0.7
2	☐	1.000		2456376.38		A	7.8
3	☐	1.000		2352013.26		A	11.3
4	☐	1.000		2596615.45		A	2.9
5	☐	1.000		2504563.19		A	1.3
6	☐	1.000		2449628.46		A	1.9
7	☐	1.000		2465287.44		A	1.3
8	☐	1.000		2483732.61		A	0.7

115 In (ISTD) [He]

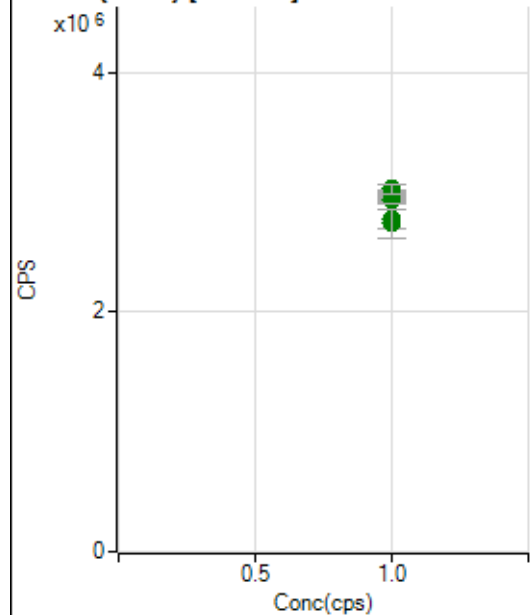
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		452881.30		P	0.6
2	☐	1.000		474615.78		P	6.6
3	☐	1.000		465866.14		P	6.6
4	☐	1.000		418461.72		P	10.8
5	☐	1.000		433829.65		P	0.8
6	☐	1.000		431574.89		P	0.5
7	☐	1.000		422659.17		P	1.0
8	☐	1.000		426508.25		P	0.9

159 Tb (ISTD) [No Gas]

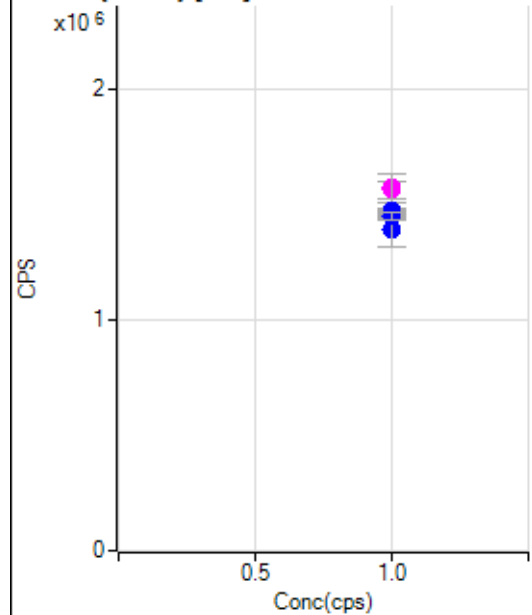
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3075060.86		A	0.9
2	☐	1.000		2904349.71		A	5.8
3	☐	1.000		2833070.95		A	9.7
4	☐	1.000		3052195.82		A	1.3
5	☐	1.000		3031585.23		A	3.1
6	☐	1.000		2989747.56		A	1.6
7	☐	1.000		3086030.99		A	1.0
8	☐	1.000		3131301.76		A	1.6

159 Tb (ISTD) [He]

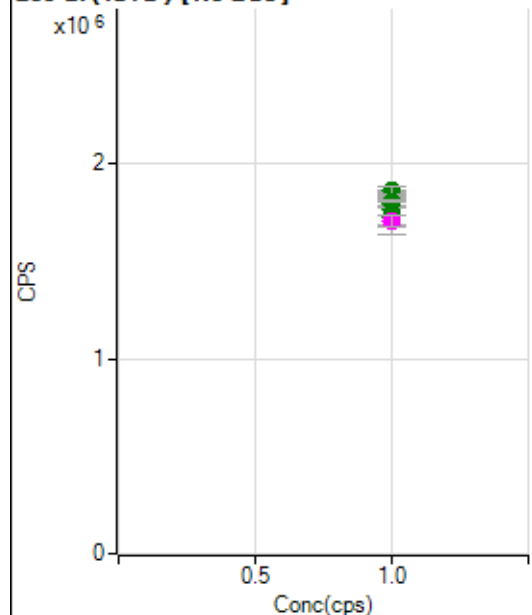
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1455442.03		P	0.7
2	☐	1.000		1548512.70		M	5.4
3	☐	1.000		1518107.94		M	5.8
4	☐	1.000		1370745.58		P	10.8
5	☐	1.000		1407232.95		P	1.2
6	☐	1.000		1441943.45		P	0.2
7	☐	1.000		1445892.44		P	0.3
8	☐	1.000		1422164.74		P	0.7

165 Ho (ISTD) [No Gas]

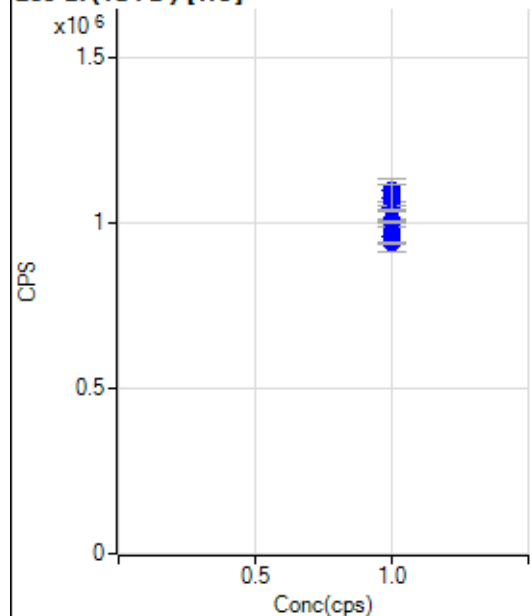
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2995317.54		A	1.2
2	☐	1.000		2777769.40		A	5.5
3	☐	1.000		2743553.25		A	8.9
4	☐	1.000		2956874.91		A	0.9
5	☐	1.000		2936230.67		A	0.8
6	☐	1.000		2938244.40		A	1.8
7	☐	1.000		2990246.88		A	0.4
8	☐	1.000		3029244.21		A	2.4

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1478135.22		P	0.9
2	☐	1.000		1565647.27		M	4.6
3	☐	1.000		1573078.88		M	7.7
4	☐	1.000		1389797.79		P	10.4
5	☐	1.000		1451043.50		P	1.3
6	☐	1.000		1473747.70		P	0.6
7	☐	1.000		1458431.61		P	0.5
8	☐	1.000		1447981.92		P	2.1

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1858650.18		A	0.8
2	☐	1.000		1760724.82		A	8.3
3	☐	1.000		1721364.32		A	9.5
4	☐	1.000		1859965.25		A	2.2
5	☐	1.000		1802386.01		A	1.9
6	☐	1.000		1790345.13		A	1.4
7	☐	1.000		1808080.60		A	0.6
8	☐	1.000		1705069.56		M	3.7

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1047162.74		P	1.1
2	☐	1.000		1095276.52		P	6.4
3	☐	1.000		1074362.93		P	7.6
4	☐	1.000		960665.03		P	10.1
5	☐	1.000		1005712.27		P	0.5
6	☐	1.000		986334.50		P	0.4
7	☐	1.000		1002916.21		P	0.7
8	☐	1.000		938276.39		P	1.0

US EPA Tune Check Report

Operator Name Jaswal

Acq/Data Batch D:\Agilent\ICPMH\1\DATA\IP8022423MS.b

Acq. Date-Time 2023-02-24 13:39:25

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		7677	76768.37			1.047	5.000
24		40298	402984.20			0.513	5.000
25		5493	54930.74			0.647	5.000
26		6215	62153.43			0.496	5.000
59		23489	234888.71			1.413	5.000
113		2382	23823.23			1.296	5.000
115		29929	299287.07			1.541	5.000
206		6283	62830.58			1.448	5.000
207		5702	57019.33			0.390	5.000
208		13484	134841.32			0.791	5.000
220		1	6.70			14.547	

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

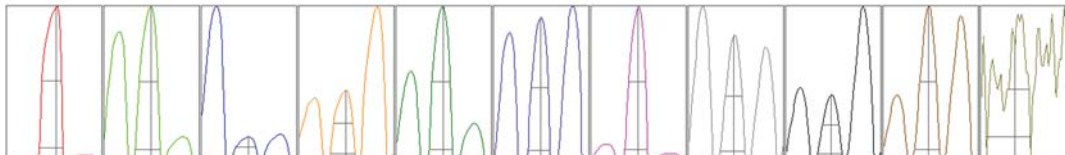
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	7717	7613	7737	7748	7569
24	40252	40435	40034	40566	40205
25	5445	5492	5475	5537	5516
26	6188	6189	6211	6227	6262
59	23624	23632	23832	23393	22964
113	2406	2394	2373	2406	2333
115	30409	29932	29976	30152	29175
206	6306	6228	6330	6393	6159
207	5715	5716	5692	5719	5667
208	13401	13529	13628	13503	13360

US EPA Tune Check Report

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

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	13296.59	9.10	8.90 - 9.10	
24	72049.53	24.00	23.90 - 24.10	
25	9601.87	25.00	24.90 - 25.10	
26	10892.04	26.00	25.90 - 26.10	
59	43651.94	59.00	58.90 - 59.10	
113	4666.92	113.00	112.90 - 113.10	
115	59422.64	115.00	114.90 - 115.10	
206	12295.91	205.95	205.90 - 206.10	
207	11179.31	206.95	206.90 - 207.10	
208	26870.52	207.95	207.90 - 208.10	
220	0.75	219.60	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.61	0.739	0.900	
24	0.58	0.784	0.900	
25	0.61	0.785	0.900	
26	0.61	0.786	0.900	
59	0.57	0.737	0.900	
113	0.53	0.692	0.900	
115	0.53	0.723	0.900	
206	0.52	0.777	0.900	
207	0.52	0.778	0.900	
208	0.52	0.789	0.900	
220	0.65	1.363		

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode --- Nebulizer Gas 0.87 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	10.3 V	Deflect	16.0 V
Extract 2	-190.0 V	Cell Entrance	-30 V	Plate Bias	-50 V
Omega Bias	-100 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	140 V		

QP Parameters

Mass Gain	123	Axis Gain	0.9991	QP Bias	-4.0 V
Mass Offset	125	Axis Offset	0.00		

Hardware Settings

Torch

Torch H	1.0 mm	Torch V	-0.7 mm
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EM

Discriminator	4.4 mV	Analog HV	2317 V	Pulse HV	1712 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		5552	55523.53			0.193	
89		6175	61746.37			0.805	
205		4459	44590.16			0.924	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	5560	5548	5562	5536	5556
89	6229	6186	6176	6093	6189
205	4466	4467	4393	4461	4508

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.87 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	10.3 V	Deflect	4.6 V
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Extract 2	-190.0 V	Cell Entrance	-50 V	Plate Bias	-60 V
Omega Bias	-100 V	Cell Exit	-70 V		

Cell Parameters

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

QP Parameters

Mass Gain	123	Axis Gain	0.9991	QP Bias	-13.0 V
Mass Offset	125	Axis Offset	0.00		

Hardware Settings

Torch

Torch H	1.0 mm	Torch V	-0.7 mm
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EM

Discriminator	4.4 mV	Analog HV	2317 V	Pulse HV	1712 V
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