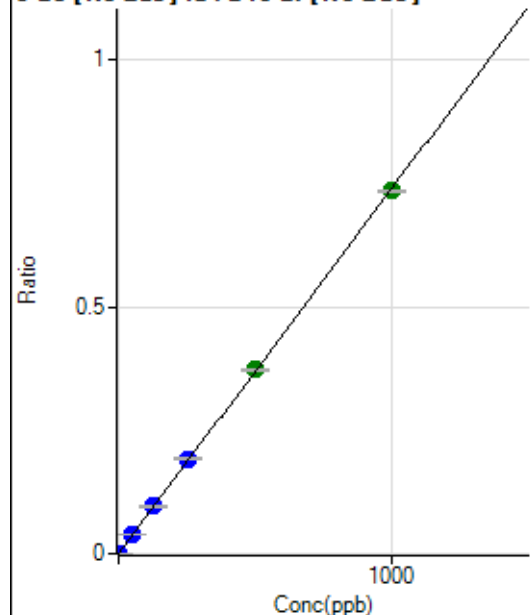


Batch Folder: D:\Agilent\ICPMH\1\DATA\P7050622 MS.b\
Analysis File: P7050622 MS.batch.bin
DA Date-Time: 2022-07-20 11:46:50
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	003CALB.d	S00	2022-05-06 11:45:28
2	004CAL.S.d	S02	2022-05-06 11:48:22
3	005CAL.S.d	S03	2022-05-06 11:51:14
4	006CAL.S.d	S04	2022-05-06 11:54:01
5	007CAL.S.d	S05	2022-05-06 11:56:46
6	008CAL.S.d	S06	2022-05-06 11:59:33
7	009CAL.S.d	S07	2022-05-06 12:02:18
8	010CAL.S.d	S08	2022-05-06 12:05:05

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	36.67	0.0000	P	10.3
2	☐	1.000	1.064	2664.70	0.0008	P	4.8
3	☐	50.000	51.344	130660.02	0.0379	P	1.3
4	☐	125.000	129.556	322318.49	0.0957	P	2.4
5	☐	250.000	260.068	628279.30	0.1920	P	1.7
6	☐	500.000	504.208	1218064.61	0.3722	A	1.0
7	☐	1000.000	994.742	2363501.63	0.7344	A	0.4
8	☐			515.57	0.0002	P	5.3

$$y = 7.3826\text{E-}004 * x + 1.0995\text{E-}005$$

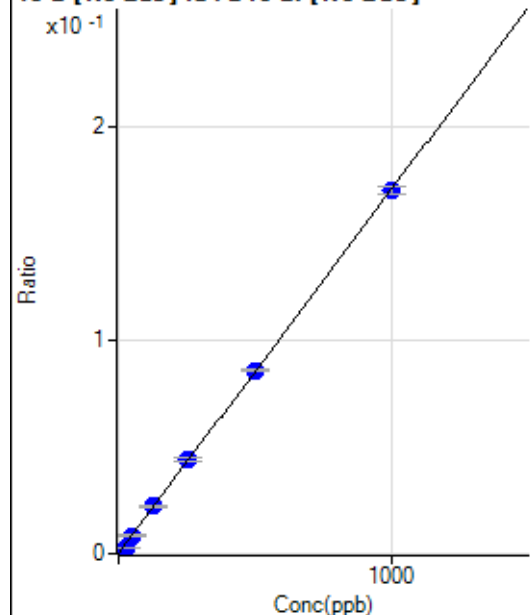
$$R = 0.9999$$

$$DL = 0.004611$$

$$BEC = 0.01489$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	430.57	0.0001	P	10.9
2	☐	25.000	14.683	8808.27	0.0026	P	6.7
3	☐	50.000	49.213	29350.43	0.0085	P	4.8
4	☐	125.000	129.156	74610.49	0.0221	P	4.6
5	☐	250.000	259.094	144962.68	0.0443	P	3.2
6	☐	500.000	503.294	281162.32	0.0859	P	1.6
7	☐	1000.000	995.857	546845.36	0.1699	P	2.2
8	☐			15916.89	0.0054	P	8.0

$$y = 1.7047\text{E-}004 * x + 1.2889\text{E-}004$$

$$R = 0.9999$$

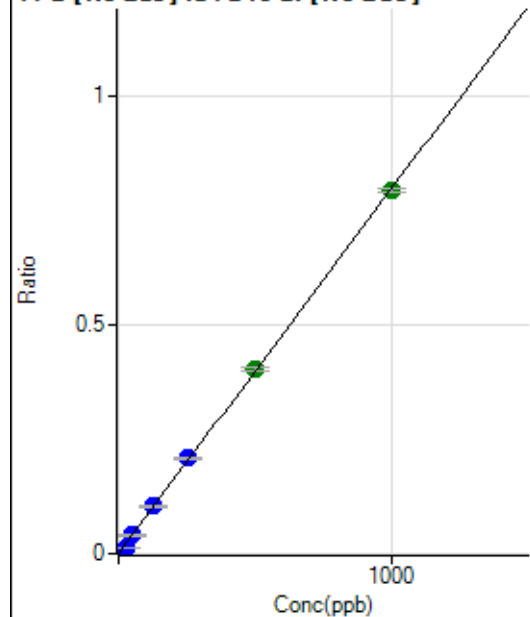
$$DL = 0.2478$$

$$BEC = 0.7561$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	1975.17	0.0006	P	2.3
2	☐	25.000	14.651	41063.34	0.0123	P	5.0
3	☐	50.000	50.394	140431.82	0.0408	P	4.9
4	☐	125.000	128.923	348226.53	0.1034	P	4.3
5	☐	250.000	260.523	681585.35	0.2083	P	3.5
6	☐	500.000	506.254	1322439.87	0.4041	A	2.0
7	☐	1000.000	993.991	2552185.58	0.7929	A	1.2
8	☐			75110.91	0.0254	P	7.7

$$y = 7.9712\text{E-}004 * x + 5.9193\text{E-}004$$

$$R = 0.9998$$

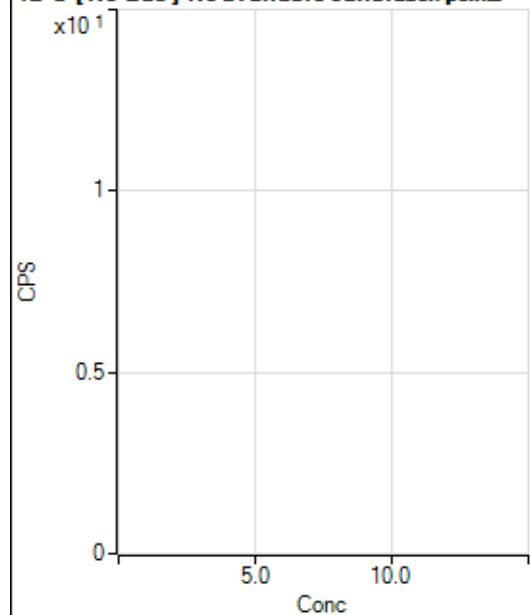
$$DL = 0.05211$$

$$BEC = 0.7426$$

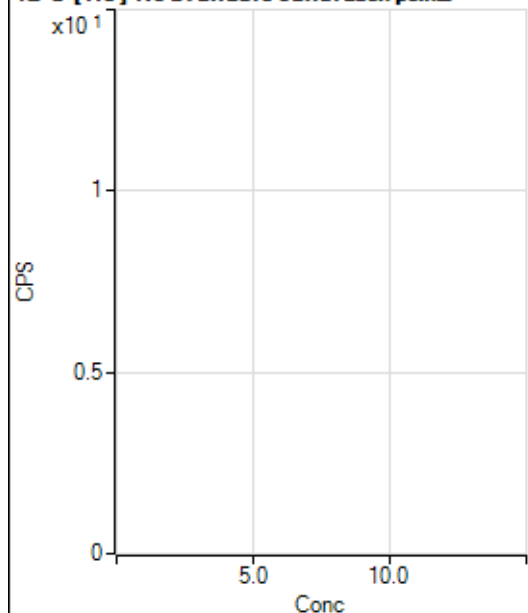
Weight: <None>

Min Conc: 0

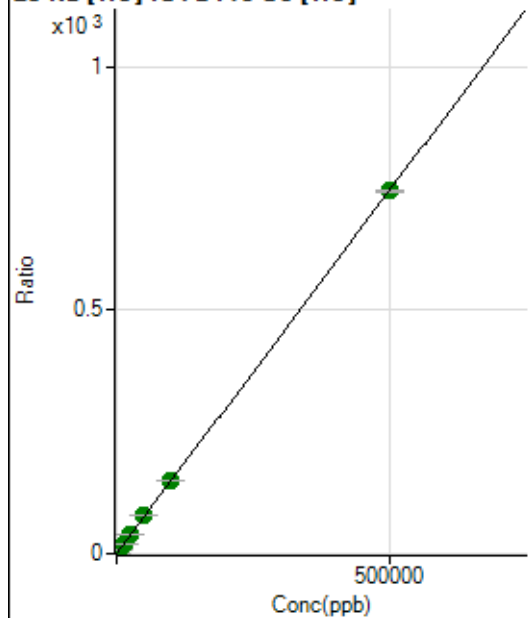
12 C [No Gas] No available calibration points



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

12 C [He] No available calibration points

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

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	20196.83	0.0337	P	0.4
2	☐	500.000	490.462	463466.05	0.7653	P	0.7
3	☐	5000.000	5229.410	4744801.96	7.8351	A	0.1
4	☐	12500.000	12990.687	11656443.20	19.4137	A	0.7
5	☐	25000.000	25811.445	22890700.28	38.5403	A	0.8
6	☐	50000.000	52133.304	43782195.42	77.8084	A	1.1
7	☐	100000.00	101505.98	86681291.75	151.4648	A	0.6
8	☐	500000.00	499430.34	442604613.60	745.1060	A	0.9

$$y = 0.0015 * x + 0.0337$$

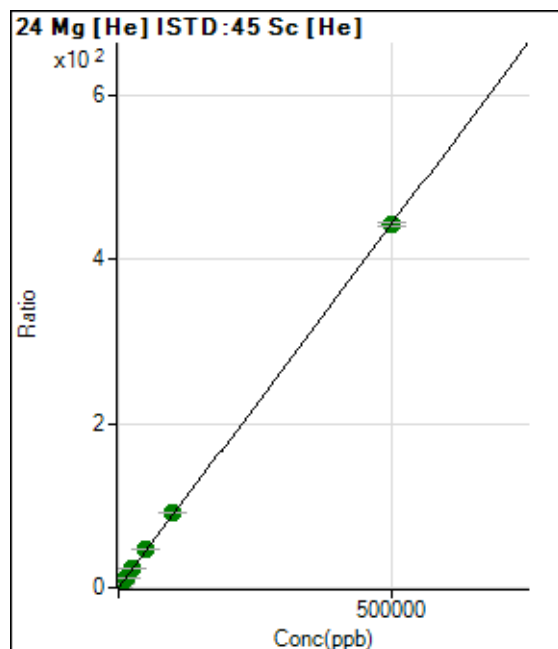
$$R = 1.0000$$

$$DL = 0.2902$$

$$BEC = 22.56$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	422.24	0.0007	P	9.8
2	☐	500.000	508.573	273471.63	0.4516	P	1.1
3	☐	5000.000	5355.174	2875474.37	4.7487	A	1.9
4	☐	12500.000	13327.987	7095734.88	11.8175	A	1.2
5	☐	25000.000	26403.123	13904627.40	23.4102	A	0.3
6	☐	50000.000	52620.645	26252777.44	46.6551	A	0.8
7	☐	100000.00	103017.64	52271727.55	91.3380	A	0.3
8	☐	500000.00	499039.99	262839905.88	442.4586	A	1.0

$$y = 8.8662\text{E-}004 * x + 7.0354\text{E-}004$$

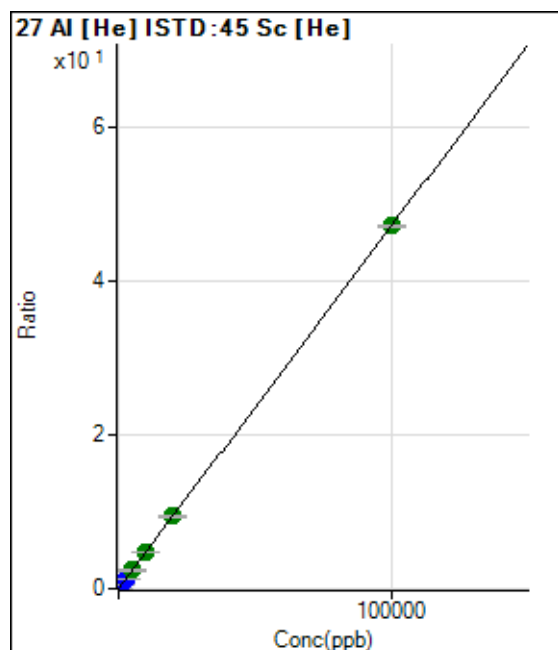
$$R = 1.0000$$

$$DL = 0.2323$$

$$BEC = 0.7935$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	166.67	0.0003	P	24.7
2	☐	20.000	19.658	5784.55	0.0095	P	3.2
3	☐	1000.000	1030.596	294528.45	0.4864	P	1.0
4	☐	2500.000	2553.584	723342.61	1.2047	P	0.9
5	☐	5000.000	5073.643	1421418.90	2.3934	A	1.7
6	☐	10000.000	10233.244	2716185.85	4.8270	A	0.7
7	☐	20000.000	19920.089	5377230.21	9.3960	A	0.5
8	☐	100000.00	99987.330	28016830.26	47.1615	A	0.6

$$y = 4.7167\text{E-}004 * x + 2.7750\text{E-}004$$

$$R = 1.0000$$

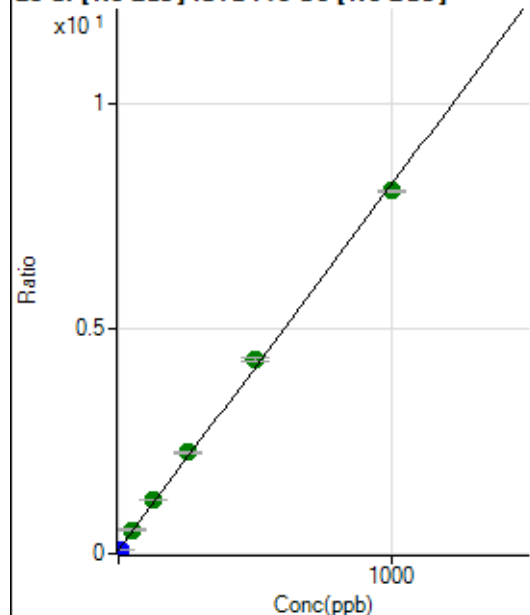
$$DL = 0.4363$$

$$BEC = 0.5883$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	627990.34	0.0842	P	2.1
2	☐	10.000	1.200	709390.83	0.0940	P	0.4
3	☐	50.000	55.144	4100065.76	0.5324	A	2.7
4	☐	125.000	138.874	9002562.88	1.2129	A	0.6
5	☐	250.000	266.398	16549757.14	2.2494	A	1.0
6	☐	500.000	521.700	30707516.66	4.3243	A	1.1
7	☐	1000.000	983.147	56871299.88	8.0746	A	0.2
8	☐			968907.28	0.1354	P	1.6

$$y = 0.0081 * x + 0.0842$$

$$R = 0.9993$$

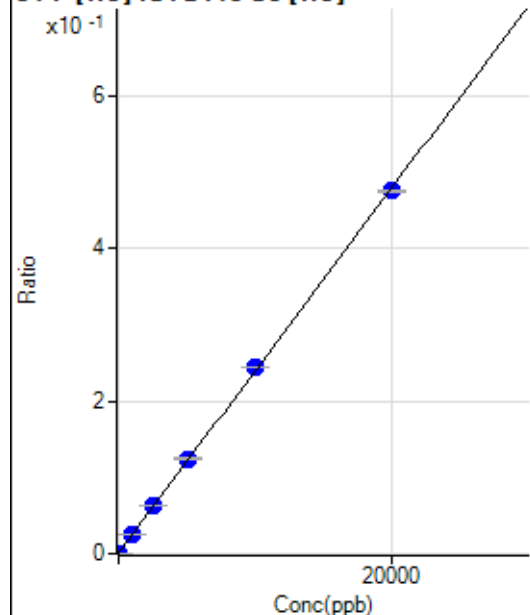
$$DL = 0.6414$$

$$BEC = 10.36$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	-8.293	375.02	0.0006	P	10.2
2	☐	0.000	8.293	619.47	0.0010	P	17.2
3	☐	1000.000	1030.442	15419.19	0.0255	P	2.8
4	☐	2500.000	2604.176	37889.16	0.0631	P	1.3
5	☐	5000.000	5147.498	73599.65	0.1239	P	2.4
6	☐	10000.000	10176.368	137401.87	0.2442	P	0.3
7	☐	20000.000	19860.397	272277.84	0.4758	P	0.7
8	☐			488.91	0.0008	P	11.4

$$y = 2.3914E-005 * x + 8.2325E-004$$

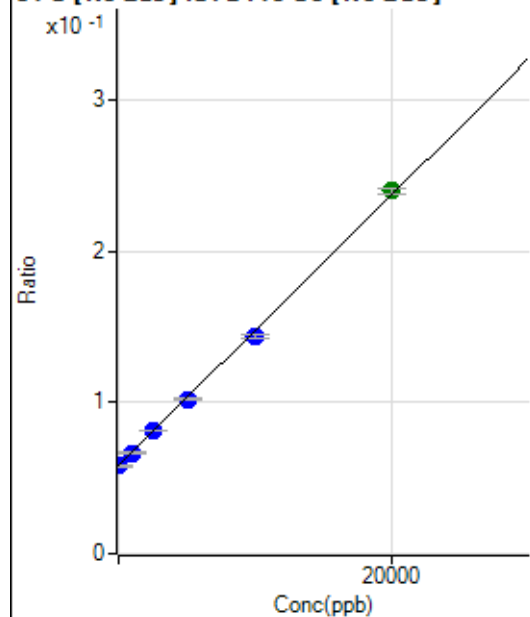
$$R = 0.9999$$

$$DL = 15$$

$$BEC = 34.43$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	-9.361	431249.81	0.0578	P	2.3
2	☐	0.000	9.361	437877.70	0.0580	P	1.7
3	☐	1000.000	953.719	512044.86	0.0665	P	2.5
4	☐	2500.000	2609.565	603815.56	0.0814	P	0.3
5	☐	5000.000	4883.937	748736.72	0.1018	P	1.3
6	☐	10000.000	9528.507	1018716.04	0.1435	P	1.4
7	☐	20000.000	20253.381	1688298.78	0.2397	A	1.6
8	☐			342227.65	0.0478	P	0.5

$$y = 8.9762\text{E-}006 * x + 0.0579$$

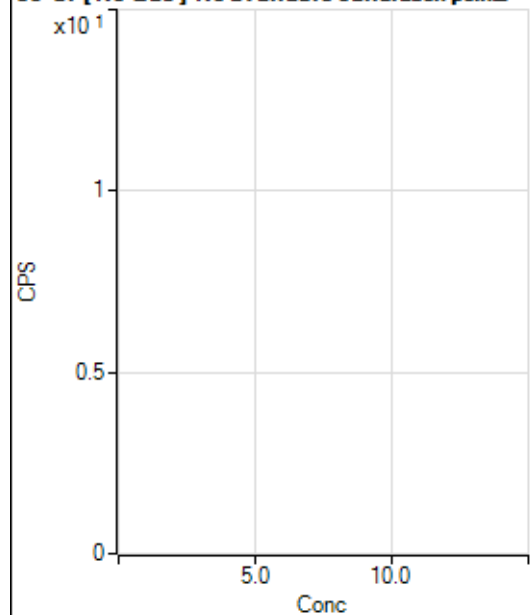
$$R = 0.9995$$

$$DL = 387.8$$

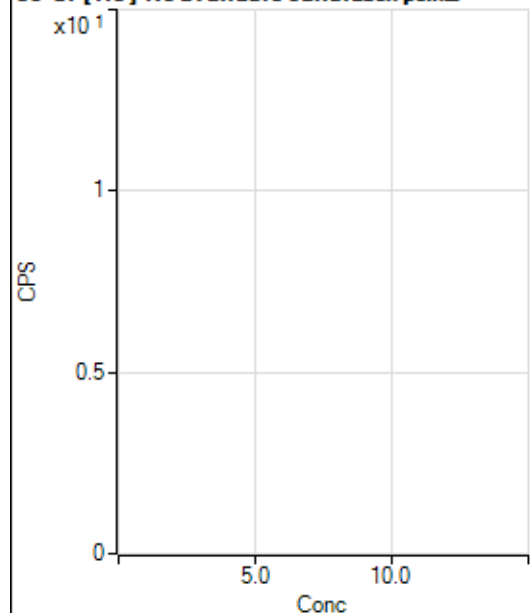
$$BEC = 6454$$

Weight: <None>

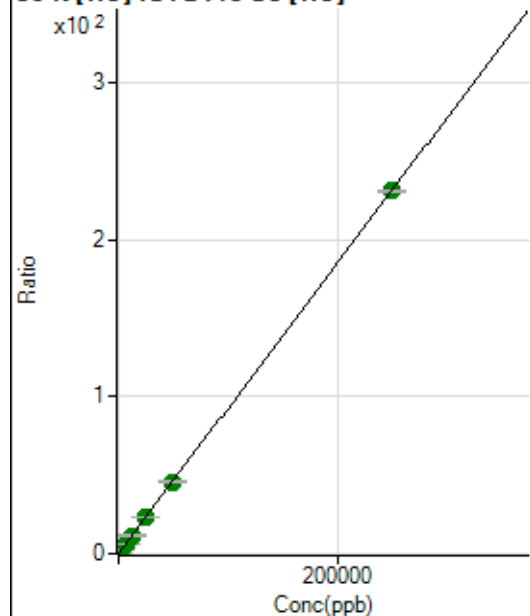
Min Conc: 0

35 Cl [No Gas] No available calibration points

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

35 Cl [He] No available calibration points

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

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	59528.04	0.0992	P	0.7
2	☐	500.000	506.376	343086.50	0.5666	P	0.4
3	☐	2500.000	2557.791	1489613.84	2.4599	A	0.6
4	☐	6250.000	6299.776	3550648.34	5.9135	A	0.9
5	☐	12500.000	12476.897	6898386.79	11.6147	A	1.4
6	☐	25000.000	24916.211	12996095.17	23.0954	A	0.1
7	☐	50000.000	49475.885	26189353.54	45.7626	A	0.7
8	☐	250000.00	250112.52	137182478.07	230.9387	A	0.8

$$y = 9.2294\text{E-}004 * x + 0.0992$$

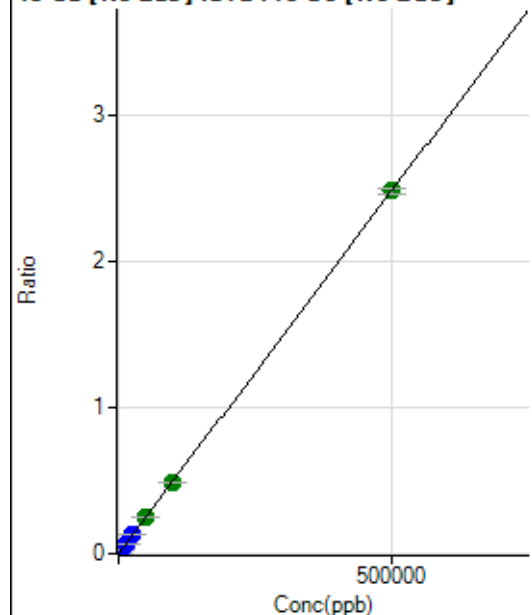
$$R = 1.0000$$

$$DL = 2.257$$

$$BEC = 107.5$$

Weight: <None>

Min Conc: 0

43 Ca [No Gas] ISTD:45 Sc [No Gas]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	163.89	0.0000	P	13.4
2	☐	500.000	501.830	18995.65	0.0025	P	3.8
3	☐	5000.000	5288.516	202659.42	0.0263	P	2.3
4	☐	12500.000	13091.092	483206.05	0.0651	P	0.2
5	☐	25000.000	26060.052	953327.48	0.1296	P	1.4
6	☐	50000.000	49515.822	1748249.43	0.2462	A	0.8
7	☐	100000.00	98072.650	3434149.17	0.4876	A	0.9
8	☐	500000.00	500363.22	17805687.03	2.4875	A	1.9

$$y = 4.9713\text{E-}006 * x + 2.1988\text{E-}005$$

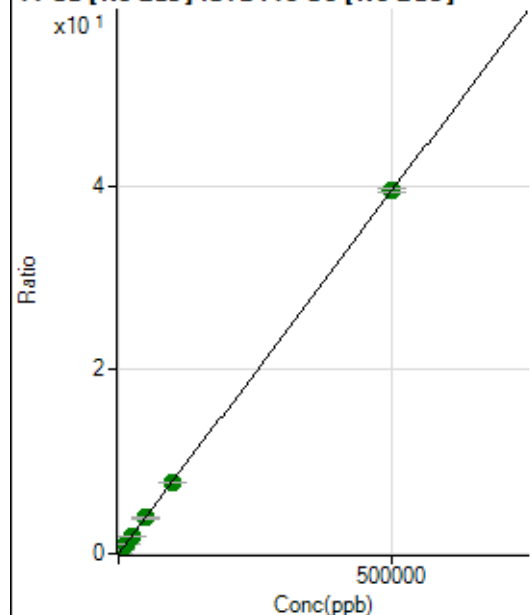
$$R = 1.0000$$

$$DL = 1.777$$

$$BEC = 4.423$$

Weight: <None>

Min Conc: 0

44 Ca [No Gas] ISTD:45 Sc [No Gas]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	16195.37	0.0022	P	2.9
2	☐	500.000	497.538	312276.73	0.0414	P	0.6
3	☐	5000.000	5001.043	3050742.62	0.3962	A	3.0
4	☐	12500.000	12248.812	7178625.16	0.9672	A	0.6
5	☐	25000.000	24447.325	14187774.80	1.9282	A	0.5
6	☐	50000.000	49089.999	27480071.45	3.8696	A	0.6
7	☐	100000.00	98287.119	54553038.72	7.7456	A	0.2
8	☐	500000.00	500467.48	282249667.42	39.4307	A	0.9

$$y = 7.8783\text{E-}005 * x + 0.0022$$

$$R = 1.0000$$

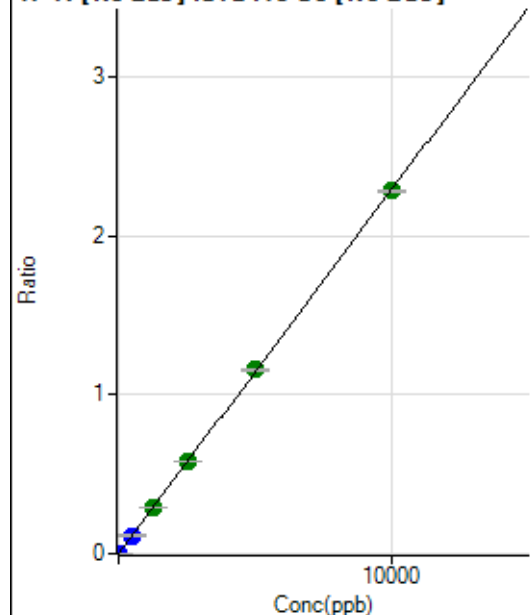
$$DL = 2.379$$

$$BEC = 27.57$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	180.56	0.0000	P	11.2
2	☐	5.000	4.825	8527.63	0.0011	P	3.0
3	☐	500.000	495.836	874962.66	0.1136	P	3.5
4	☐	1250.000	1248.627	2123641.54	0.2861	A	0.9
5	☐	2500.000	2515.219	4240780.91	0.5763	A	0.3
6	☐	5000.000	5054.002	8223536.64	1.1580	A	0.6
7	☐	10000.000	9969.574	16089658.87	2.2843	A	0.6
8	☐			3450.50	0.0005	P	4.0

$$y = 2.2913\text{E-}004 * x + 2.4205\text{E-}005$$

$$R = 1.0000$$

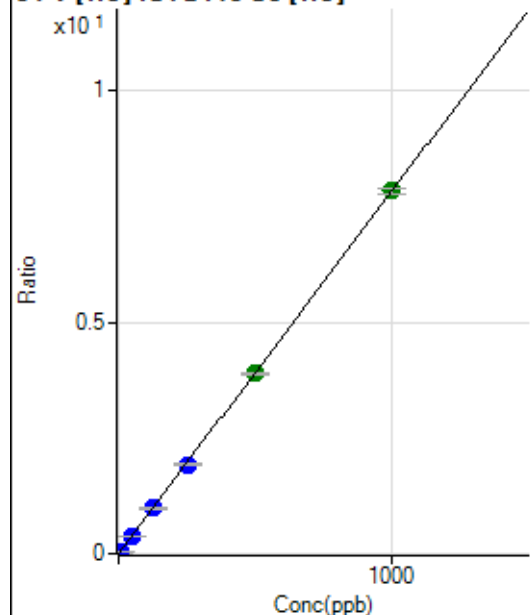
$$DL = 0.03548$$

$$BEC = 0.1056$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	62.22	0.0001	P	19.3
2	☐	5.000	4.879	23172.32	0.0383	P	2.5
3	☐	50.000	50.035	237102.34	0.3915	P	1.1
4	☐	125.000	124.858	586567.30	0.9769	P	0.6
5	☐	250.000	246.688	1146315.35	1.9301	P	0.8
6	☐	500.000	497.808	2191675.43	3.8947	A	0.7
7	☐	1000.000	1001.941	4486007.61	7.8387	A	1.5
8	☐			1247.84	0.0021	P	4.5

$$y = 0.0078 * x + 1.0375\text{E-}004$$

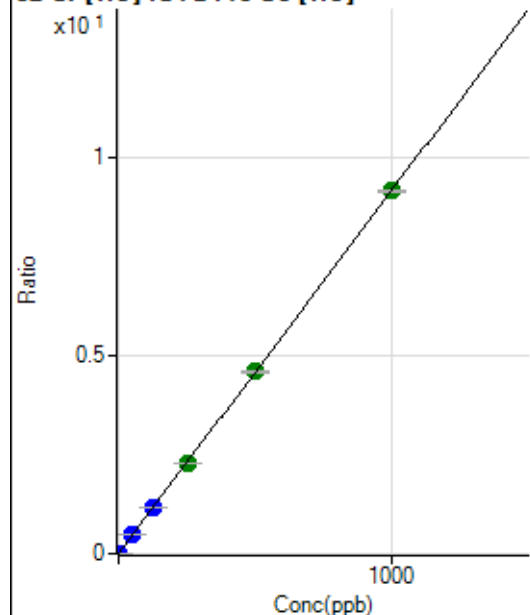
$$R = 1.0000$$

$$DL = 0.007675$$

$$BEC = 0.01326$$

Weight: <None>

Min Conc: 0

52 Cr [He] ISTD:45 Sc [He]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	2243.52	0.0037	P	4.5
2	☐	2.000	1.888	12739.90	0.0210	P	1.4
3	☐	50.000	50.972	285142.67	0.4709	P	0.4
4	☐	125.000	125.987	695471.58	1.1583	P	0.9
5	☐	250.000	248.699	1355931.01	2.2829	A	0.2
6	☐	500.000	501.149	2586384.15	4.5964	A	0.7
7	☐	1000.000	999.579	5244548.22	9.1641	A	0.6
8	☐			51296.92	0.0864	P	0.8

$$y = 0.0092 * x + 0.0037$$

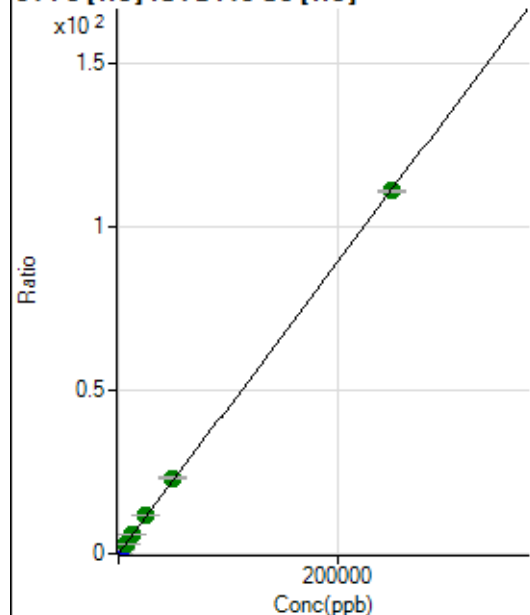
$$R = 1.0000$$

$$DL = 0.05507$$

$$BEC = 0.408$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	1698.51	0.0028	P	6.4
2	☐	50.000	52.628	15874.60	0.0262	P	4.0
3	☐	2500.000	2711.242	731417.51	1.2078	P	0.7
4	☐	6250.000	6581.793	1757988.59	2.9280	A	1.1
5	☐	12500.000	13190.216	3483330.19	5.8649	A	1.1
6	☐	25000.000	26122.054	6534534.10	11.6122	A	0.5
7	☐	50000.000	52148.446	13265263.34	23.1791	A	0.4
8	☐	250000.00	249413.18	65846217.23	110.8490	A	0.8

$$y = 4.4443E-004 * x + 0.0028$$

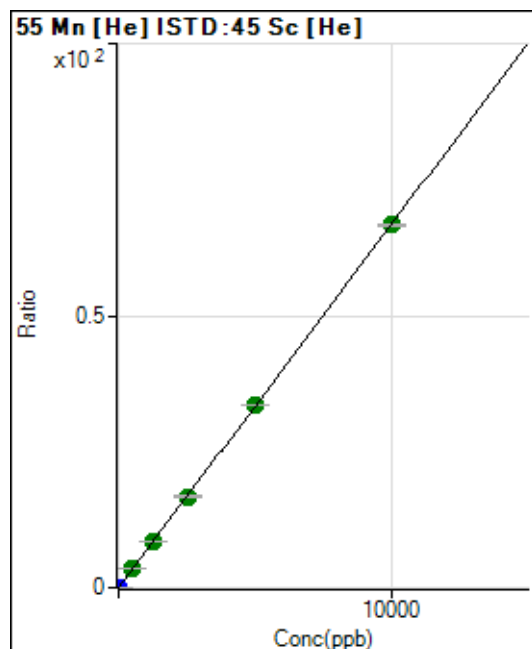
$$R = 1.0000$$

$$DL = 1.225$$

$$BEC = 6.37$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	397.79	0.0007	P	5.3
2	☐	1.000	1.017	4515.16	0.0075	P	2.9
3	☐	500.000	508.968	2060005.07	3.4019	A	1.2
4	☐	1250.000	1276.362	5121597.14	8.5301	A	1.1
5	☐	2500.000	2512.722	9973806.86	16.7922	A	0.8
6	☐	5000.000	5019.015	18874268.19	33.5407	A	0.5
7	☐	10000.000	9983.568	38181531.10	66.7168	A	0.8
8	☐			30066.76	0.0506	P	2.4

$$y = 0.0067 * x + 6.6285E-004$$

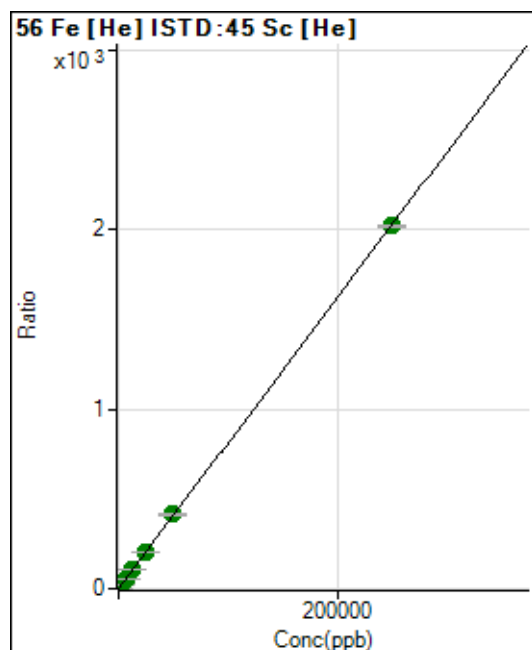
$$R = 1.0000$$

$$DL = 0.01588$$

$$BEC = 0.09919$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	15396.99	0.0257	P	3.4
2	☐	50.000	51.259	266597.32	0.4402	P	0.4
3	☐	2500.000	2611.046	12803750.98	21.1436	A	0.9
4	☐	6250.000	6555.740	31851300.25	53.0479	A	0.6
5	☐	12500.000	12974.237	62340621.30	104.9601	A	1.4
6	☐	25000.000	25745.729	117187406.32	208.2548	A	0.2
7	☐	50000.000	51123.049	236644884.92	413.5043	A	1.1
8	☐	250000.00	249668.35	1199542767.5	2,019.320	A	0.5

$$y = 0.0081 * x + 0.0257$$

$$R = 1.0000$$

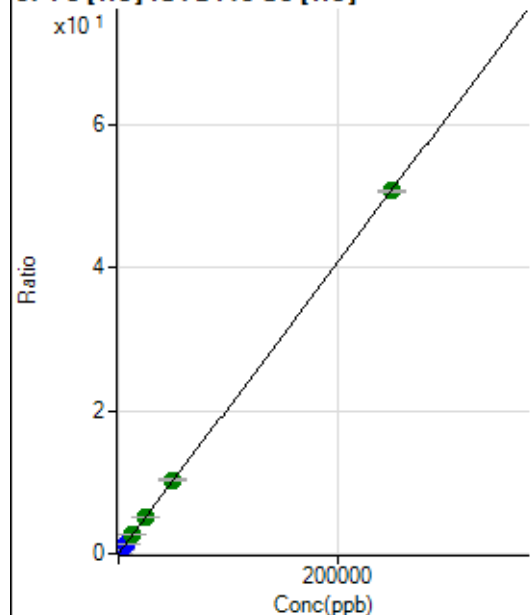
$$DL = 0.3199$$

$$BEC = 3.173$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	514.83	0.0009	P	2.0
2	☐	50.000	51.819	6892.42	0.0114	P	0.9
3	☐	2500.000	2630.106	323978.48	0.5350	P	1.0
4	☐	6250.000	6503.785	793578.25	1.3217	P	1.1
5	☐	12500.000	12877.393	1553853.12	2.6162	A	2.7
6	☐	25000.000	25503.730	2915179.35	5.1805	A	0.3
7	☐	50000.000	50738.212	5897533.99	10.3054	A	1.9
8	☐	250000.00	249775.46	30135936.79	50.7284	A	0.6

$$y = 2.0309\text{E-}004 * x + 8.5789\text{E-}004$$

$$R = 1.0000$$

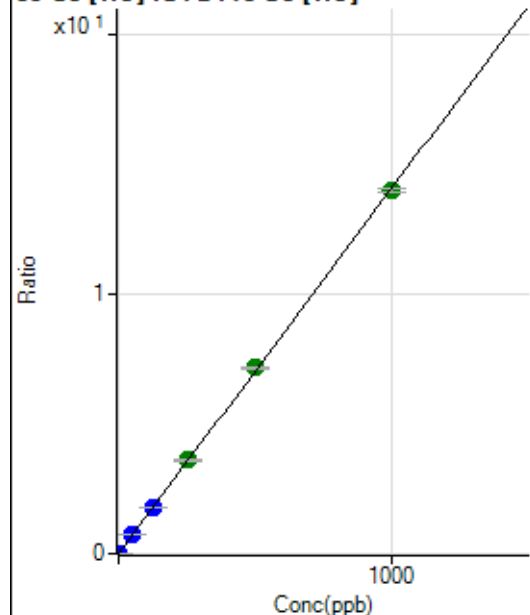
$$DL = 0.2551$$

$$BEC = 4.224$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	171.12	0.0003	P	4.3
2	☐	1.000	0.985	8570.29	0.0142	P	2.5
3	☐	50.000	51.422	438320.19	0.7238	P	0.7
4	☐	125.000	126.747	1071006.39	1.7837	P	0.2
5	☐	250.000	255.697	2137096.81	3.5981	A	1.3
6	☐	500.000	509.207	4031829.70	7.1652	A	0.7
7	☐	1000.000	993.683	8001691.62	13.9821	A	1.2
8	☐			24204.07	0.0407	P	1.6

$$y = 0.0141 * x + 2.8517\text{E-}004$$

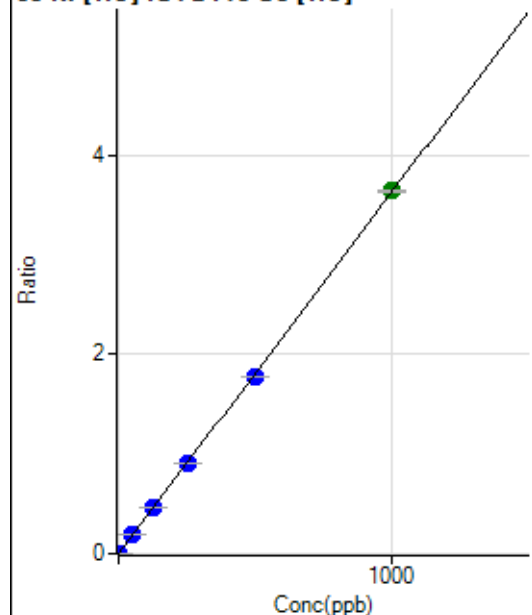
$$R = 0.9999$$

$$DL = 0.00262$$

$$BEC = 0.02027$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	225.56	0.0004	P	12.4
2	☐	1.000	1.050	2530.24	0.0042	P	3.1
3	☐	50.000	52.278	114914.05	0.1898	P	0.4
4	☐	125.000	127.896	278414.24	0.4637	P	0.8
5	☐	250.000	248.849	535672.60	0.9019	P	0.8
6	☐	500.000	489.617	998314.06	1.7741	P	0.1
7	☐	1000.000	1005.003	2083800.58	3.6412	A	0.6
8	☐			18845.23	0.0317	P	1.9

$$y = 0.0036 * x + 3.7571E-004$$

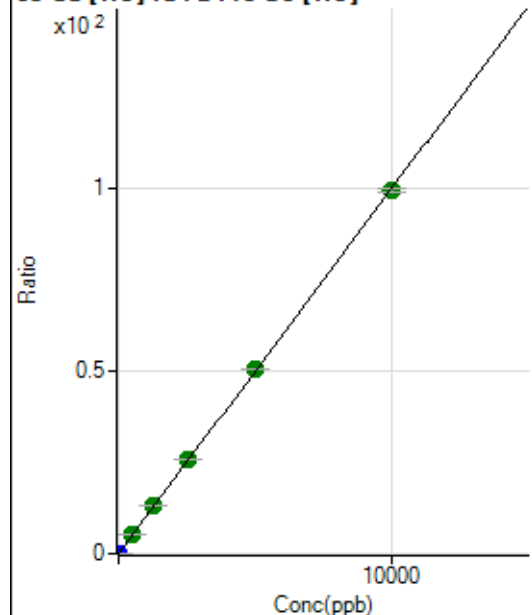
$$R = 0.9999$$

$$DL = 0.03865$$

$$BEC = 0.1037$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	878.92	0.0015	P	12.2
2	☐	2.000	2.031	13171.41	0.0218	P	1.6
3	☐	500.000	533.519	3228417.42	5.3311	A	0.1
4	☐	1250.000	1313.574	7879678.63	13.1236	A	0.9
5	☐	2500.000	2577.999	15297406.44	25.7547	A	1.7
6	☐	5000.000	5057.319	28429096.24	50.5221	A	0.5
7	☐	10000.000	9942.218	56839468.04	99.3204	A	1.0
8	☐			25163.45	0.0424	P	2.1

$$y = 0.0100 * x + 0.0015$$

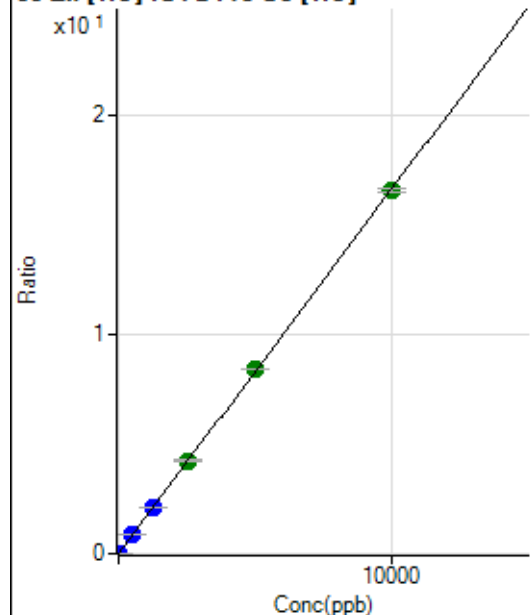
$$R = 0.9999$$

$$DL = 0.05389$$

$$BEC = 0.1466$$

Weight: <None>

Min Conc: 0

66 Zn [He] ISTD:45 Sc [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	492.24	0.0008	P	11.0
2	☐	2.000	2.168	2682.49	0.0044	P	1.3
3	☐	500.000	518.199	522876.40	0.8635	P	1.3
4	☐	1250.000	1270.066	1269975.46	2.1151	P	0.6
5	☐	2500.000	2546.847	2518780.26	4.2406	A	1.4
6	☐	5000.000	5057.045	4737803.78	8.4194	A	0.6
7	☐	10000.000	9956.347	9485838.19	16.5754	A	0.9
8	☐			28582.97	0.0481	P	0.3

$$y = 0.0017 * x + 8.2002E-004$$

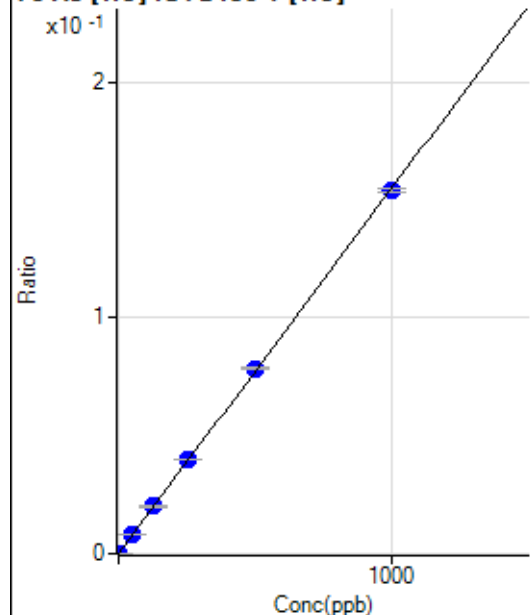
$$R = 1.0000$$

$$DL = 0.1629$$

$$BEC = 0.4926$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	31.48	0.0000	P	21.5
2	☐	1.000	1.058	674.71	0.0002	P	3.5
3	☐	50.000	52.515	31723.29	0.0081	P	0.9
4	☐	125.000	129.644	78575.82	0.0201	P	1.8
5	☐	250.000	257.476	154215.94	0.0399	P	1.4
6	☐	500.000	507.524	290744.93	0.0786	P	1.1
7	☐	1000.000	993.663	585865.68	0.1538	P	1.0
8	☐			355.56	0.0001	P	18.1

$$y = 1.5476E-004 * x + 8.0697E-006$$

$$R = 0.9999$$

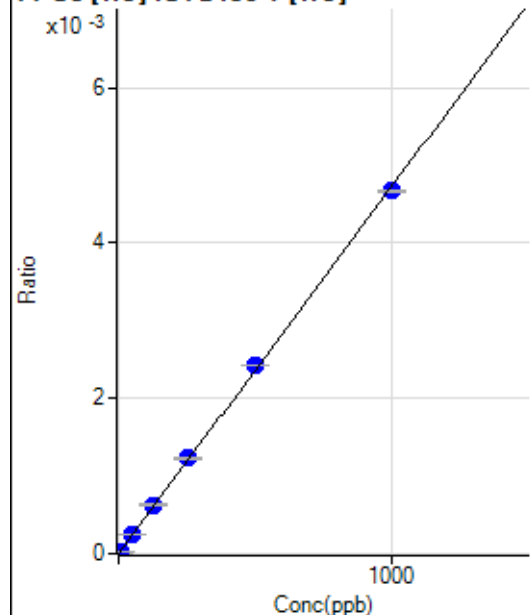
$$DL = 0.0336$$

$$BEC = 0.05214$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	3.33	0.0000	P	99.3
2	☐	5.000	4.919	94.44	0.0000	P	15.3
3	☐	50.000	52.439	968.93	0.0002	P	5.4
4	☐	125.000	132.263	2449.12	0.0006	P	3.8
5	☐	250.000	260.845	4769.71	0.0012	P	2.7
6	☐	500.000	514.572	8998.36	0.0024	P	0.6
7	☐	1000.000	988.973	17798.59	0.0047	P	0.4
8	☐			5.55	0.0000	P	69.2

$$y = 4.7227E-006 * x + 8.4525E-007$$

R = 0.9998

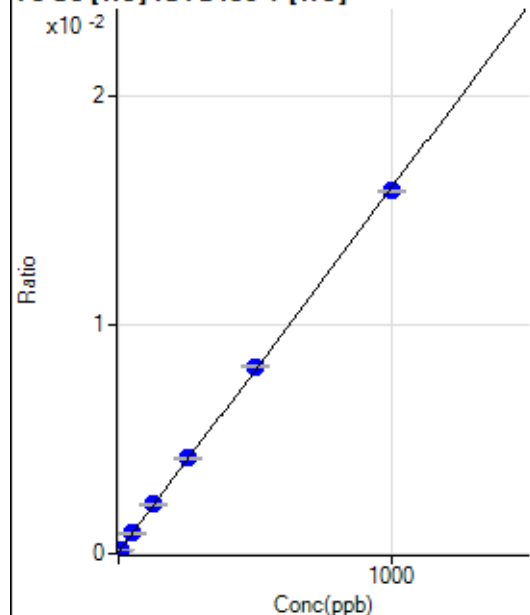
DL = 0.533

BEC = 0.179

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	269.14	0.0001	P	8.3
2	☐	5.000	4.712	565.45	0.0001	P	4.7
3	☐	50.000	51.805	3483.76	0.0009	P	3.7
4	☐	125.000	130.987	8428.97	0.0022	P	2.1
5	☐	250.000	258.037	16153.88	0.0042	P	1.4
6	☐	500.000	510.250	30305.57	0.0082	P	0.6
7	☐	1000.000	992.029	60398.73	0.0159	P	0.5
8	☐			318.52	0.0001	P	10.7

$$y = 1.5910E-005 * x + 6.9036E-005$$

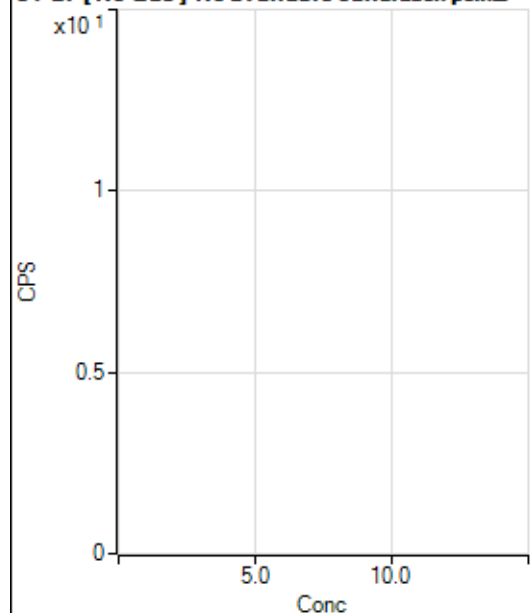
R = 0.9999

DL = 1.087

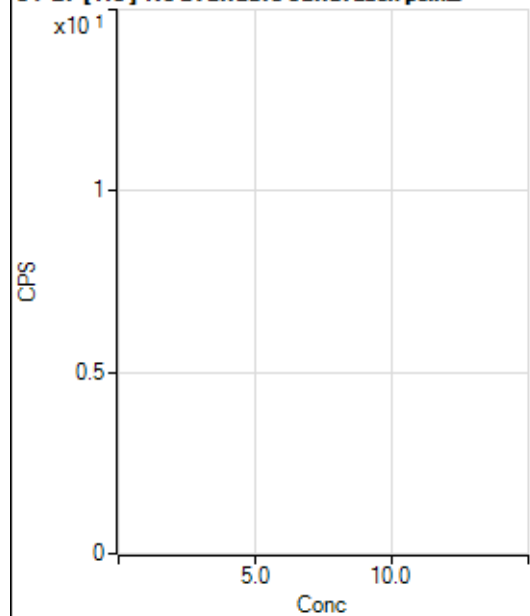
BEC = 4.339

Weight: <None>

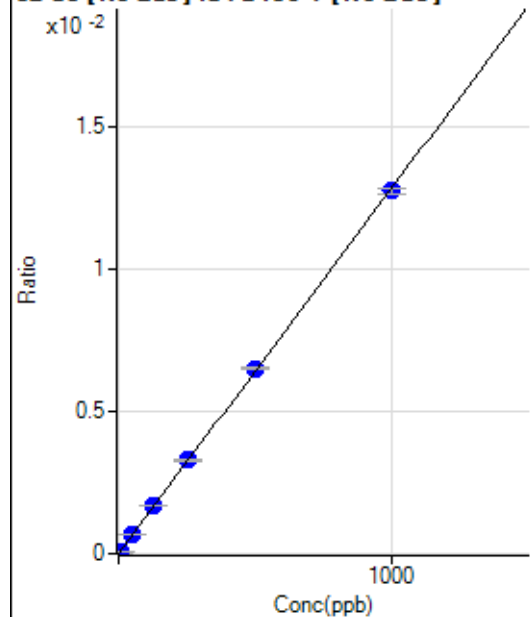
Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			11157.24		P	3.1
2	☐			11193.41		P	2.6
3	☐			11707.76		P	4.8
4	☐			11162.82		P	2.3
5	☐			11012.69		P	4.0
6	☐			10392.79		P	5.4
7	☐			10301.06		P	1.7
8	☐			11435.30		P	3.1

81 Br [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			66.73		P	70.9
2	☐			76.74		P	61.6
3	☐			90.09		P	19.2
4	☐			46.71		P	12.4
5	☐			93.43		P	22.3
6	☐			90.09		P	29.4
7	☐			116.79		P	55.1
8	☐			126.80		P	24.1

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	-60.95	0.0000	P	-177.
2	☐	5.000	5.717	1116.21	0.0001	P	9.6
3	☐	50.000	51.483	10758.62	0.0007	P	1.8
4	☐	125.000	130.764	26781.26	0.0017	P	1.2
5	☐	250.000	257.084	52405.14	0.0033	P	1.5
6	☐	500.000	507.917	100584.06	0.0065	P	1.2
7	☐	1000.000	993.472	195890.69	0.0128	P	1.4
8	☐			105.77	0.0000	P	222.7

$$y = 1.2838\text{E-}005 * x - 3.8065\text{E-}006$$

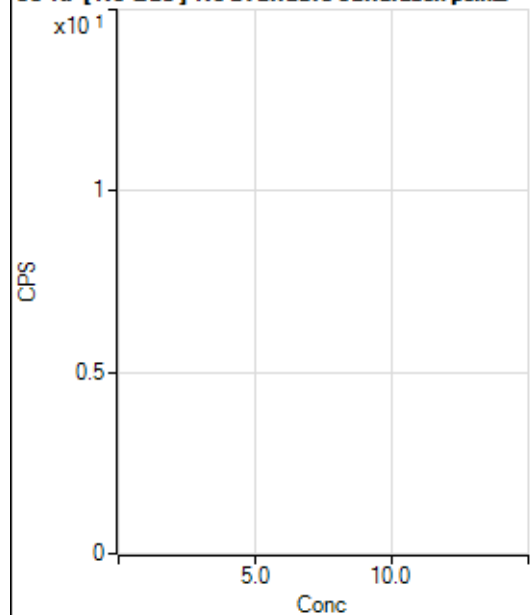
$$R = 0.9999$$

$$DL = 1.575$$

$$BEC = -0.2965$$

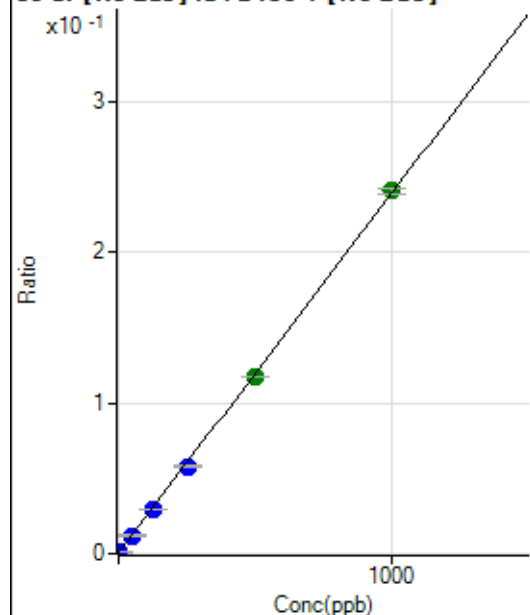
Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			4522.96		P	3.0
2	☐			4806.39		P	3.9
3	☐			4957.55		P	2.0
4	☐			4789.72		P	1.7
5	☐			4656.34		P	3.2
6	☐			4773.04		P	5.0
7	☐			4081.72		P	2.7
8	☐			4900.86		P	1.7

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	7638.30	0.0005	P	6.9
2	☐	1.000	0.894	11126.73	0.0007	P	2.5
3	☐	50.000	48.187	196051.67	0.0120	P	3.0
4	☐	125.000	121.850	472518.82	0.0296	P	1.7
5	☐	250.000	241.029	921839.05	0.0580	P	1.2
6	☐	500.000	491.082	1815953.51	0.1176	A	0.3
7	☐	1000.000	1007.186	3699289.97	0.2408	A	1.4
8	☐			32667.38	0.0021	P	2.1

$$y = 2.3859\text{E-}004 * x + 4.8039\text{E-}004$$

$$R = 0.9999$$

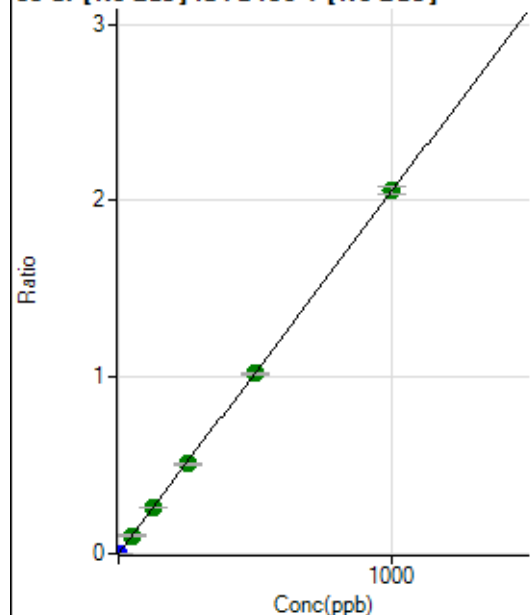
$$DL = 0.4144$$

$$BEC = 2.013$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	405.57	0.0000	P	11.4
2	☐	1.000	0.942	31409.37	0.0020	P	1.7
3	☐	50.000	50.149	1684158.76	0.1029	A	2.7
4	☐	125.000	125.405	4113302.13	0.2572	A	0.7
5	☐	250.000	247.437	8068543.84	0.5075	A	1.1
6	☐	500.000	497.462	15749608.17	1.0204	A	0.7
7	☐	1000.000	1001.852	31569578.48	2.0549	A	2.0
8	☐			217104.81	0.0139	P	0.7

$$y = 0.0021 * x + 2.5516\text{E-}005$$

$$R = 1.0000$$

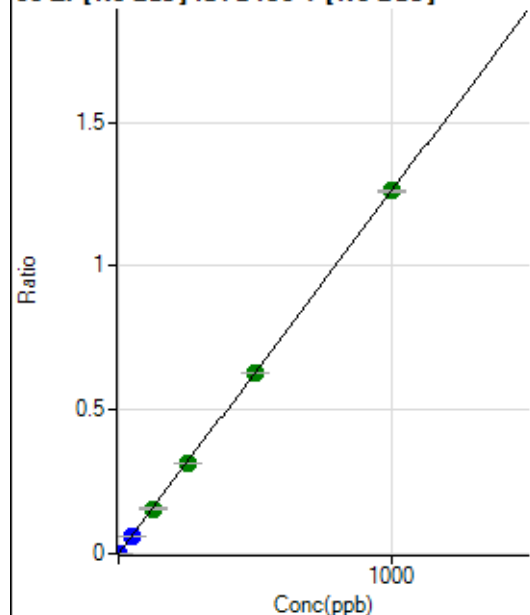
$$DL = 0.004245$$

$$BEC = 0.01244$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	1041.73	0.0001	P	10.0
2	☐	1.000	0.927	19802.66	0.0012	P	0.7
3	☐	50.000	48.603	1004822.32	0.0614	P	2.5
4	☐	125.000	124.522	2513206.59	0.1572	A	1.5
5	☐	250.000	250.306	5021559.31	0.3158	A	0.3
6	☐	500.000	499.947	9736566.45	0.6308	A	0.1
7	☐	1000.000	1000.080	19385696.27	1.2617	A	0.7
8	☐			11315.75	0.0007	P	1.4

$$y = 0.0013 * x + 6.5523E-005$$

$$R = 1.0000$$

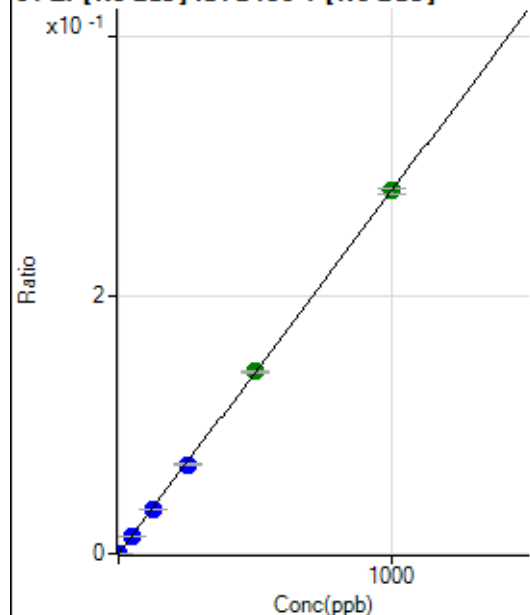
$$DL = 0.0156$$

$$BEC = 0.05194$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	163.89	0.0000	P	21.6
2	☐	1.000	0.955	4470.25	0.0003	P	5.3
3	☐	50.000	48.773	224473.41	0.0137	P	2.6
4	☐	125.000	122.994	552656.83	0.0346	P	1.3
5	☐	250.000	246.457	1100837.03	0.0693	P	1.4
6	☐	500.000	502.195	2178006.52	0.1411	A	0.6
7	☐	1000.000	1000.101	4316850.44	0.2810	A	1.6
8	☐			2394.72	0.0002	P	13.0

$$y = 2.8094E-004 * x + 1.0310E-005$$

$$R = 1.0000$$

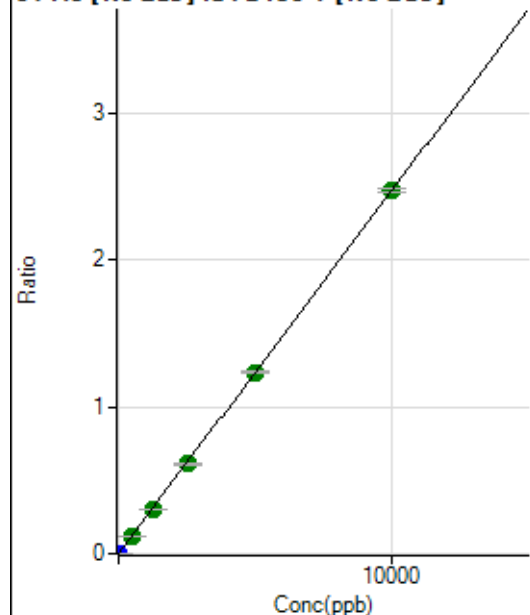
$$DL = 0.02381$$

$$BEC = 0.0367$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	413.90	0.0000	P	23.5
2	☐	5.000	5.711	23060.21	0.0014	P	2.5
3	☐	500.000	496.083	2008156.27	0.1227	A	1.9
4	☐	1250.000	1241.358	4907477.67	0.3069	A	0.4
5	☐	2500.000	2481.143	9751045.10	0.6134	A	1.4
6	☐	5000.000	5007.686	19108726.30	1.2380	A	0.4
7	☐	10000.000	10002.147	37991147.38	2.4727	A	1.2
8	☐			15136.00	0.0010	P	4.5

$$y = 2.4721E-004 * x + 2.6033E-005$$

$$R = 1.0000$$

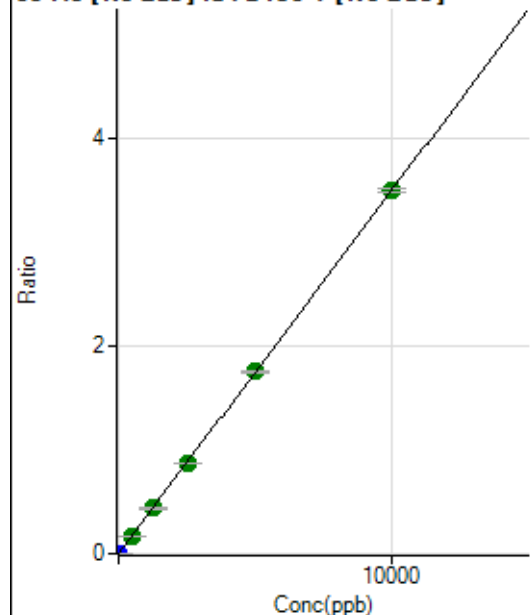
$$DL = 0.07438$$

$$BEC = 0.1053$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	158.34	0.0000	P	15.3
2	☐	5.000	5.014	28224.95	0.0018	P	2.2
3	☐	500.000	497.347	2841740.49	0.1736	A	2.1
4	☐	1250.000	1246.586	6956477.37	0.4351	A	1.2
5	☐	2500.000	2498.033	13860322.36	0.8718	A	0.4
6	☐	5000.000	5010.176	26988904.42	1.7486	A	0.9
7	☐	10000.000	9995.963	53597936.96	3.4886	A	1.0
8	☐			18681.79	0.0012	P	0.4

$$y = 3.4900E-004 * x + 9.9695E-006$$

$$R = 1.0000$$

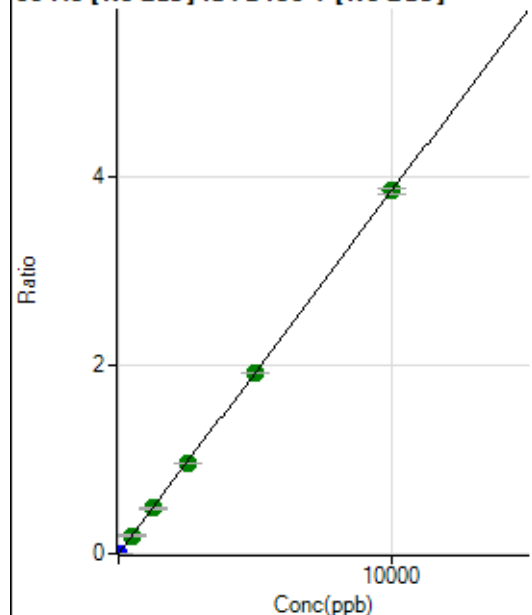
$$DL = 0.01313$$

$$BEC = 0.02857$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	227.79	0.0000	P	40.1
2	☐	5.000	5.020	31231.14	0.0019	P	0.4
3	☐	500.000	503.227	3171660.94	0.1938	A	2.8
4	☐	1250.000	1247.837	7681586.63	0.4804	A	1.3
5	☐	2500.000	2500.640	15305480.90	0.9627	A	0.6
6	☐	5000.000	4984.300	29619157.61	1.9189	A	0.6
7	☐	10000.000	10007.799	59196604.10	3.8530	A	1.4
8	☐			26532.90	0.0017	P	3.4

$$y = 3.8500\text{E-}004 * x + 1.4262\text{E-}005$$

$$R = 1.0000$$

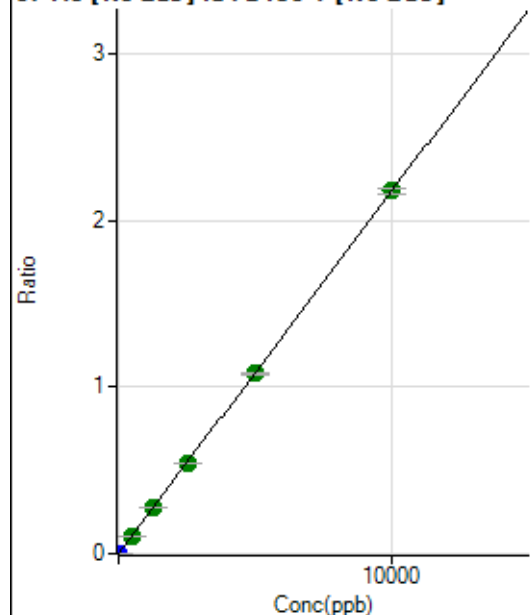
$$DL = 0.04452$$

$$BEC = 0.03704$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	116.67	0.0000	P	30.0
2	☐	5.000	4.869	17121.57	0.0011	P	0.8
3	☐	500.000	493.823	1760373.54	0.1075	A	2.0
4	☐	1250.000	1253.863	4365220.76	0.2730	A	0.9
5	☐	2500.000	2489.476	8616398.37	0.5420	A	1.4
6	☐	5000.000	4975.032	16719368.78	1.0832	A	1.0
7	☐	10000.000	10014.941	33501919.50	2.1805	A	1.3
8	☐			11376.96	0.0007	P	1.6

$$y = 2.1773\text{E-}004 * x + 7.3145\text{E-}006$$

$$R = 1.0000$$

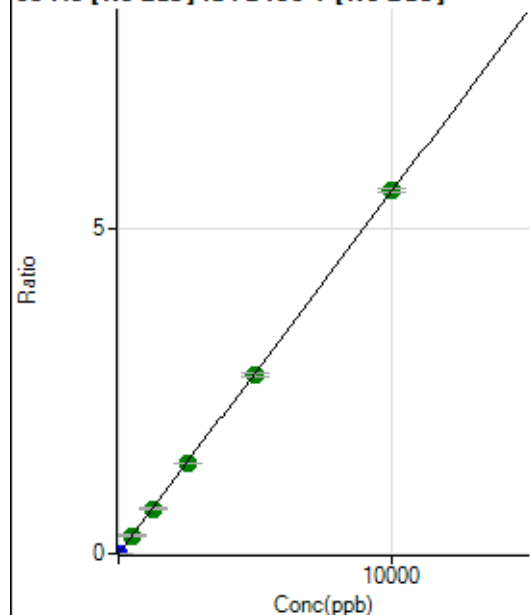
$$DL = 0.03027$$

$$BEC = 0.0336$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	225.01	0.0000	P	11.0
2	☐	5.000	4.860	43738.30	0.0027	P	0.4
3	☐	500.000	499.171	4561424.02	0.2787	A	2.6
4	☐	1250.000	1247.460	11133969.26	0.6963	A	1.4
5	☐	2500.000	2495.083	22141663.34	1.3928	A	0.7
6	☐	5000.000	4954.596	42685391.93	2.7657	A	1.8
7	☐	10000.000	10024.290	85969196.37	5.5956	A	1.2
8	☐			29190.83	0.0019	P	3.1

$$y = 5.5820\text{E-}004 * x + 1.4159\text{E-}005$$

$$R = 1.0000$$

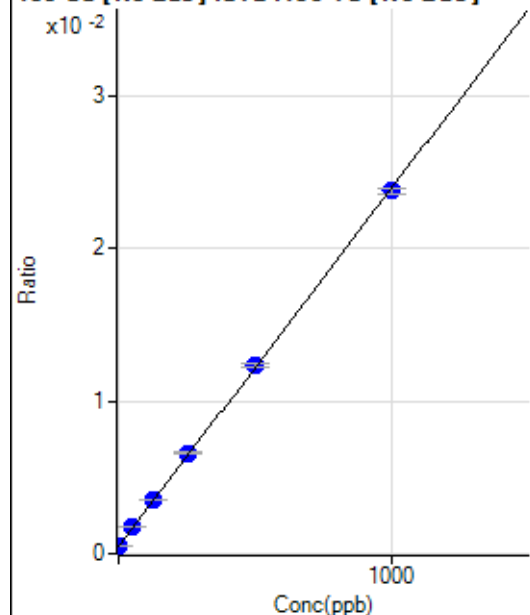
$$DL = 0.008345$$

$$BEC = 0.02537$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	5720.70	0.0005	P	5.1
2	☐	1.000	2.261	6446.04	0.0005	P	2.5
3	☐	50.000	53.947	21989.34	0.0017	P	2.6
4	☐	125.000	131.300	44622.11	0.0035	P	2.2
5	☐	250.000	260.695	82691.44	0.0066	P	2.0
6	☐	500.000	506.790	154523.12	0.0123	P	2.4
7	☐	1000.000	992.945	300375.73	0.0237	P	1.9
8	☐			5792.99	0.0005	P	2.3

$$y = 2.3446\text{E-}005 * x + 4.6676\text{E-}004$$

$$R = 0.9999$$

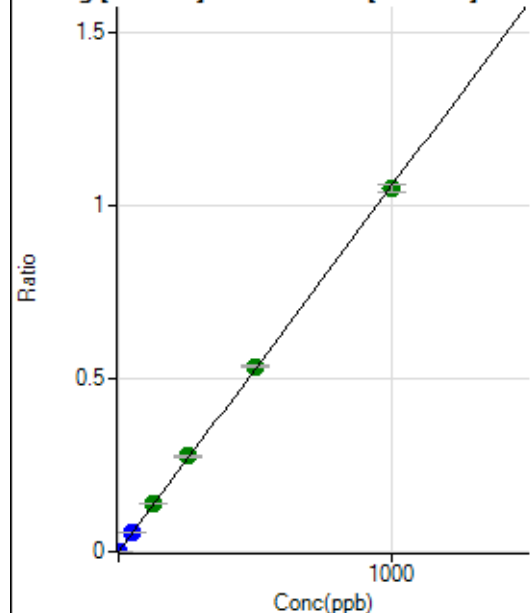
$$DL = 3.043$$

$$BEC = 19.91$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	80.56	0.0000	P	25.5
2	☐	1.000	0.877	11582.80	0.0009	P	13.7
3	☐	50.000	52.506	704709.77	0.0555	P	1.7
4	☐	125.000	132.547	1762874.23	0.1401	A	0.8
5	☐	250.000	262.507	3486056.63	0.2774	A	2.2
6	☐	500.000	506.237	6693689.56	0.5349	A	1.0
7	☐	1000.000	992.686	13266636.67	1.0489	A	2.1
8	☐			5217.78	0.0004	P	8.1

$$y = 0.0011 * x + 6.5614E-006$$

$$R = 0.9999$$

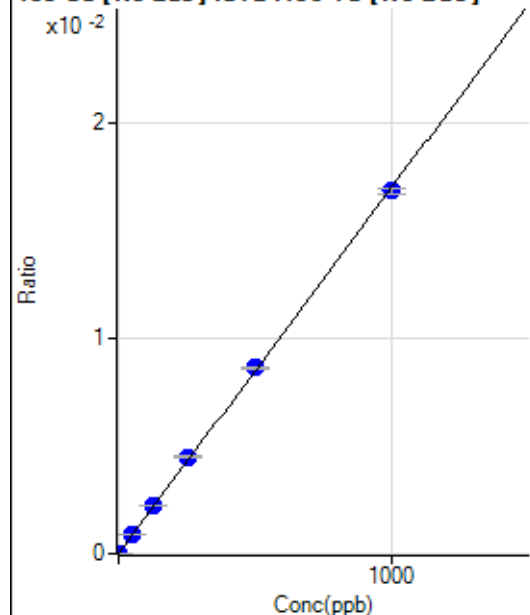
$$DL = 0.004751$$

$$BEC = 0.00621$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	52.78	0.0000	P	4.7
2	☐	1.000	1.156	297.23	0.0000	P	5.4
3	☐	50.000	53.112	11526.92	0.0009	P	3.2
4	☐	125.000	132.823	28490.63	0.0023	P	1.1
5	☐	250.000	264.827	56678.30	0.0045	P	1.5
6	☐	500.000	507.418	108075.62	0.0086	P	0.8
7	☐	1000.000	991.451	213398.67	0.0169	P	1.3
8	☐			166.67	0.0000	P	12.3

$$y = 1.7011E-005 * x + 4.3048E-006$$

$$R = 0.9998$$

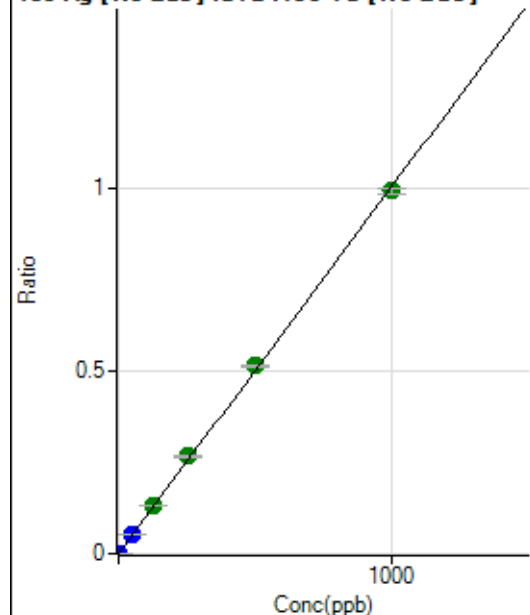
$$DL = 0.03579$$

$$BEC = 0.2531$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	19.45	0.0000	P	26.2
2	☐	1.000	0.880	10968.36	0.0009	P	11.4
3	☐	50.000	52.626	670128.23	0.0528	P	1.2
4	☐	125.000	132.633	1673343.49	0.1330	A	1.3
5	☐	250.000	265.635	3347040.74	0.2663	A	1.5
6	☐	500.000	511.294	6414183.69	0.5125	A	0.7
7	☐	1000.000	989.359	12545527.19	0.9918	A	1.6
8	☐			4984.32	0.0004	P	2.8

$$y = 0.0010 * x + 1.5895E-006$$

$$R = 0.9998$$

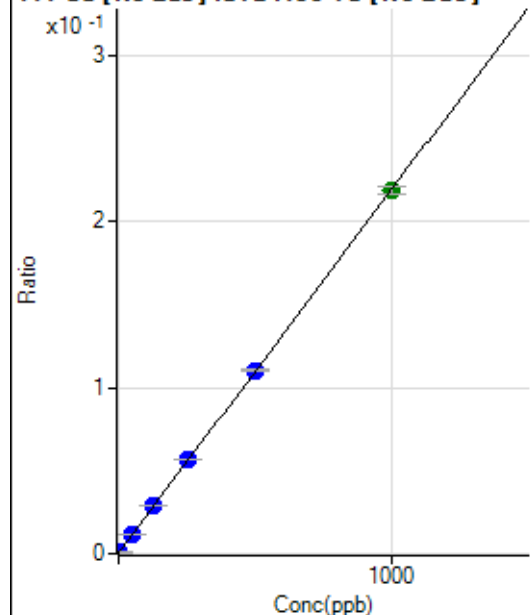
$$DL = 0.001244$$

$$BEC = 0.001586$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	4003.66	0.0003	P	5.4
2	☐	1.000	1.162	7204.50	0.0006	P	2.3
3	☐	50.000	52.563	150248.20	0.0118	P	1.3
4	☐	125.000	130.770	364261.80	0.0289	P	1.2
5	☐	250.000	257.195	711522.63	0.0566	P	1.3
6	☐	500.000	501.678	1377919.01	0.1101	P	0.8
7	☐	1000.000	996.512	2762348.39	0.2184	A	2.2
8	☐			5025.97	0.0004	P	1.4

$$y = 2.1883E-004 * x + 3.2667E-004$$

$$R = 1.0000$$

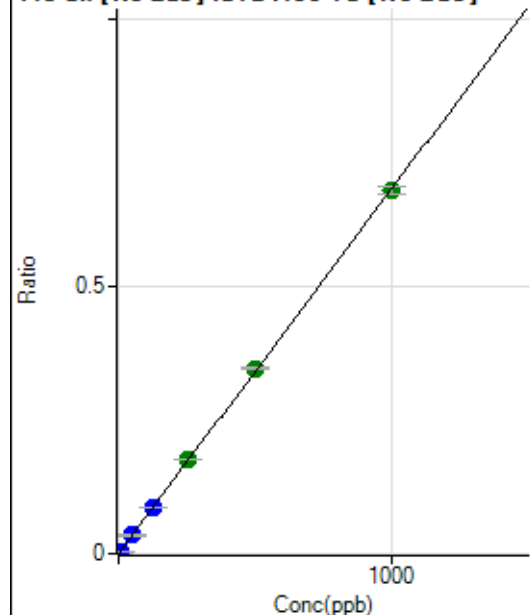
$$DL = 0.241$$

$$BEC = 1.493$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	1797.39	0.0001	P	7.3
2	☐	5.000	4.840	42700.07	0.0034	P	3.0
3	☐	50.000	50.466	438240.56	0.0345	P	2.6
4	☐	125.000	125.047	1073413.78	0.0853	P	1.3
5	☐	250.000	256.501	2197155.78	0.1748	A	0.6
6	☐	500.000	506.521	4317750.49	0.3450	A	1.1
7	☐	1000.000	995.086	8571858.01	0.6777	A	2.1
8	☐			28411.95	0.0023	P	4.1

$$y = 6.8089E-004 * x + 1.4665E-004$$

$$R = 0.9999$$

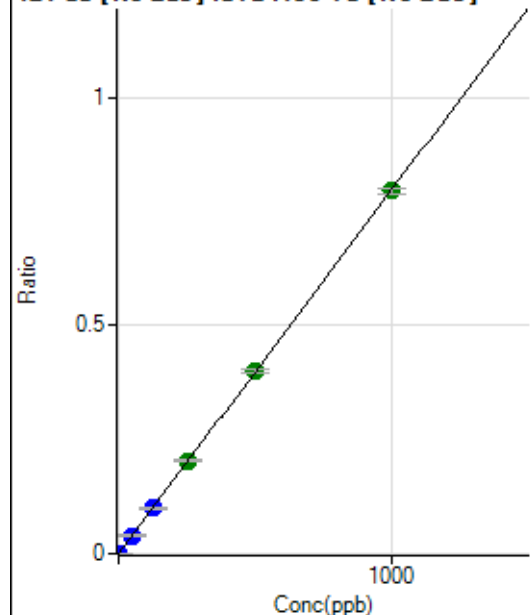
$$DL = 0.04707$$

$$BEC = 0.2154$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	55.56	0.0000	P	53.5
2	☐	2.000	1.942	19266.20	0.0016	P	1.7
3	☐	50.000	49.764	504122.77	0.0397	P	2.3
4	☐	125.000	124.580	1250655.99	0.0994	P	1.0
5	☐	250.000	254.992	2556270.22	0.2034	A	2.0
6	☐	500.000	502.110	5011628.80	0.4005	A	1.7
7	☐	1000.000	997.762	10066409.17	0.7958	A	1.9
8	☐			7368.77	0.0006	P	4.7

$$y = 7.9761E-004 * x + 4.5404E-006$$

$$R = 1.0000$$

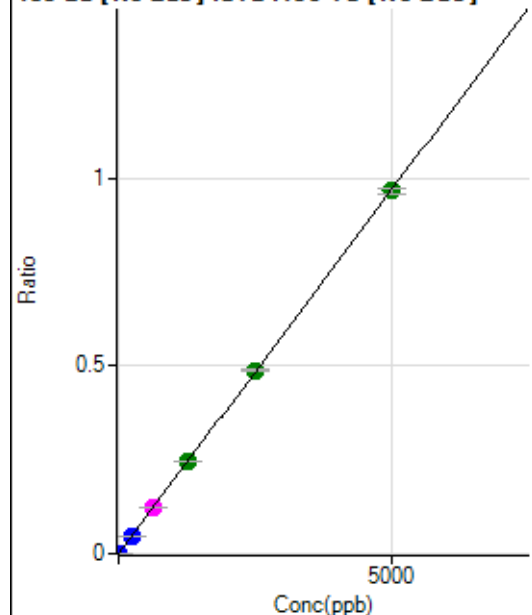
$$DL = 0.009144$$

$$BEC = 0.005692$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	36.11	0.0000	P	66.6
2	☐	10.000	9.425	22704.70	0.0018	P	4.3
3	☐	250.000	245.922	605779.65	0.0477	P	1.6
4	☐	625.000	626.750	1529982.73	0.1216	M	1.5
5	☐	1250.000	1267.394	3089576.22	0.2458	A	1.1
6	☐	2500.000	2515.000	6103853.22	0.4877	A	1.0
7	☐	5000.000	4988.138	12237399.14	0.9674	A	1.8
8	☐			6879.62	0.0006	P	1.0

$$y = 1.9394\text{E-}004 * x + 2.9436\text{E-}006$$

$$R = 1.0000$$

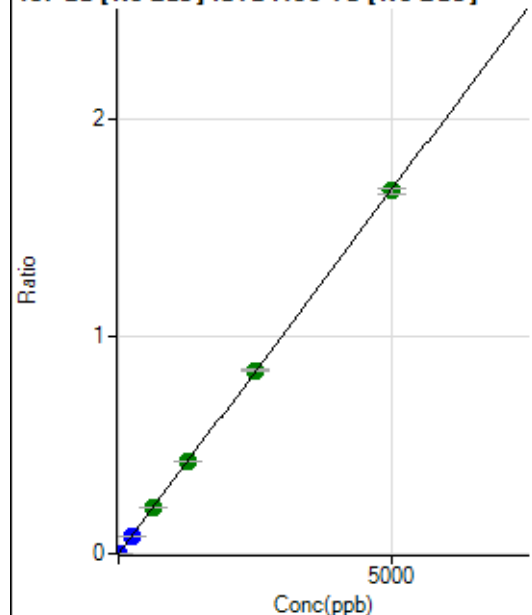
$$DL = 0.03033$$

$$BEC = 0.01518$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	75.00	0.0000	P	12.0
2	☐	10.000	9.480	39533.44	0.0032	P	2.5
3	☐	250.000	245.850	1048001.45	0.0825	P	1.6
4	☐	625.000	637.356	2692043.29	0.2139	A	1.2
5	☐	1250.000	1268.113	5349422.08	0.4256	A	1.3
6	☐	2500.000	2520.879	10587023.41	0.8460	A	1.2
7	☐	5000.000	4983.696	21156802.21	1.6725	A	1.7
8	☐			12266.76	0.0010	P	0.9

$$y = 3.3560\text{E-}004 * x + 6.1206\text{E-}006$$

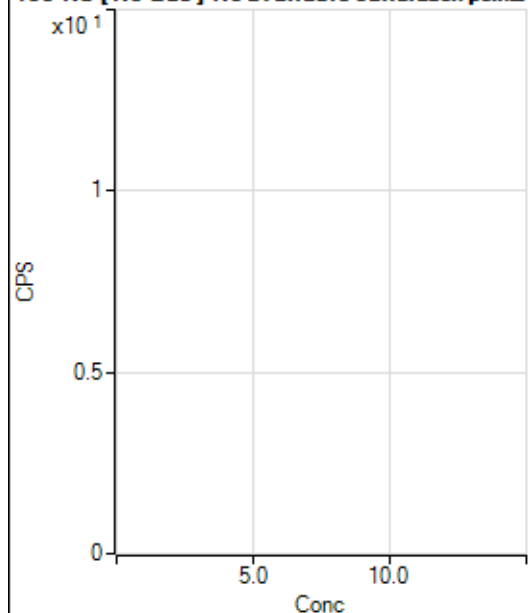
$$R = 1.0000$$

$$DL = 0.006539$$

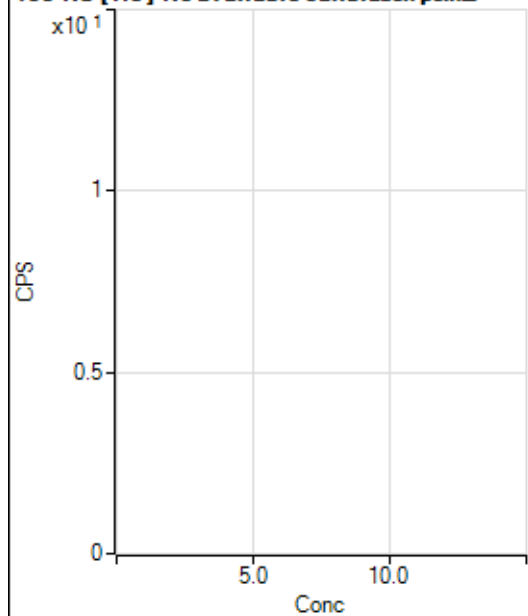
$$BEC = 0.01824$$

Weight: <None>

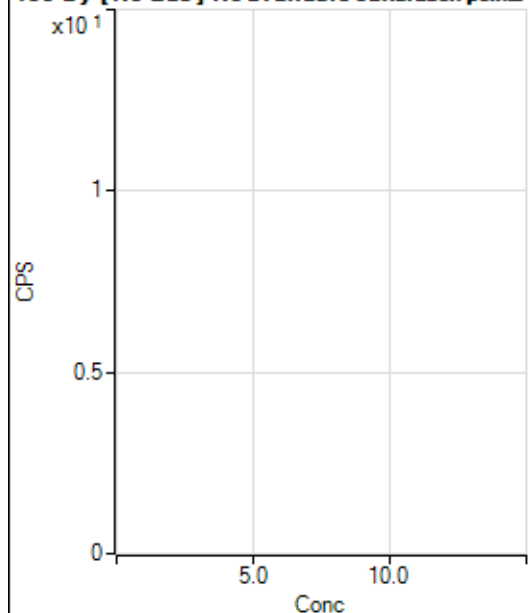
Min Conc: 0

150 Nd [No Gas] No available calibration points

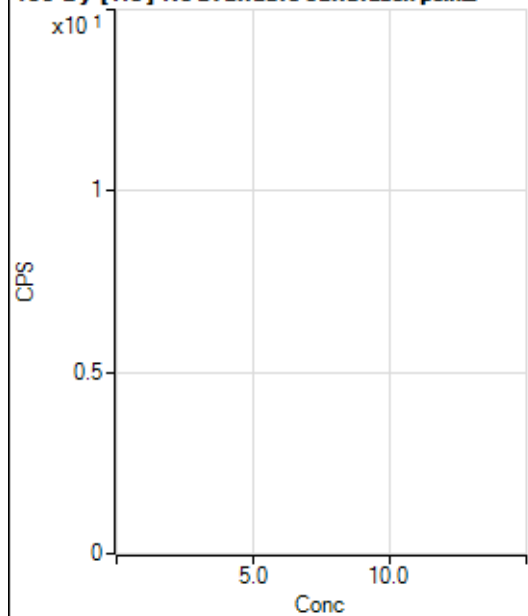
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			0.00		P	
2	☐			4.44		P	173.2
3	☐			62.22		P	30.9
4	☐			113.34		P	15.6
5	☐			215.56		P	3.6
6	☐			377.79		P	12.0
7	☐			826.71		P	5.8
8	☐			142.22		P	2.7

150 Nd [He] No available calibration points

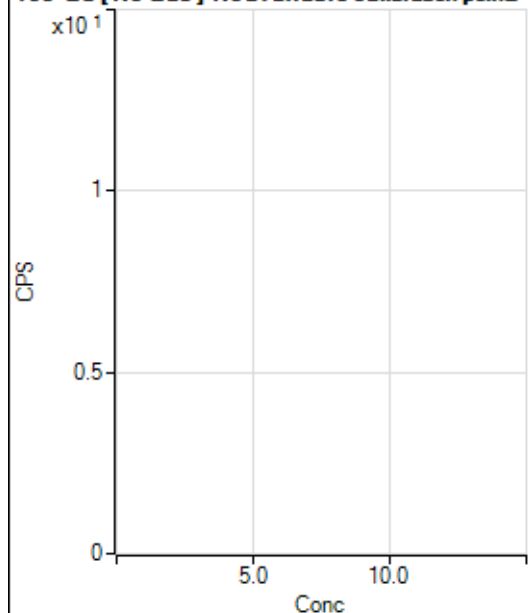
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			0.00		P	
2	☐			2.22		P	173.2
3	☐			16.67		P	40.0
4	☐			17.78		P	10.8
5	☐			41.11		P	12.4
6	☐			77.78		P	25.1
7	☐			160.00		P	9.1
8	☐			77.78		P	13.1

156 Dy [No Gas] No available calibration points

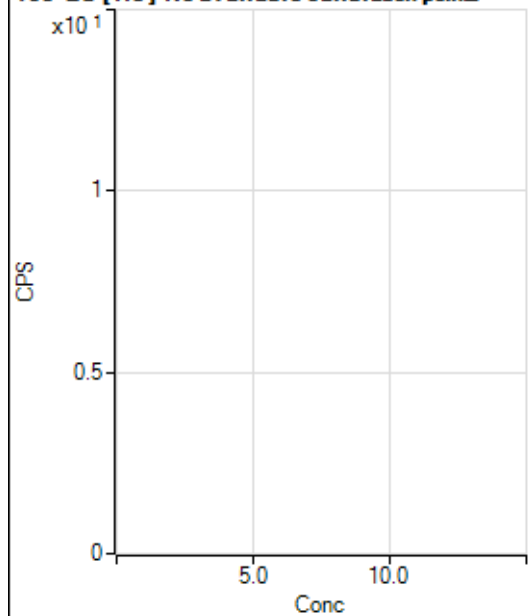
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			19.44		P	65.5
2	☐			13.89		P	34.7
3	☐			55.56		P	17.3
4	☐			88.89		P	27.1
5	☐			194.45		P	13.8
6	☐			375.02		P	13.9
7	☐			547.25		P	14.5
8	☐			1352.88		P	12.0

156 Dy [He] No available calibration points

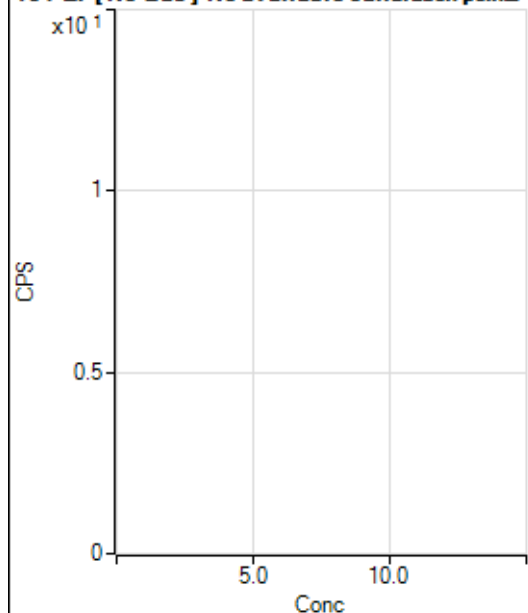
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			13.33		P	25.0
2	☐			12.22		P	15.7
3	☐			43.33		P	15.4
4	☐			64.45		P	6.0
5	☐			154.45		P	11.9
6	☐			274.45		P	9.7
7	☐			613.35		P	4.2
8	☐			771.14		P	10.2

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

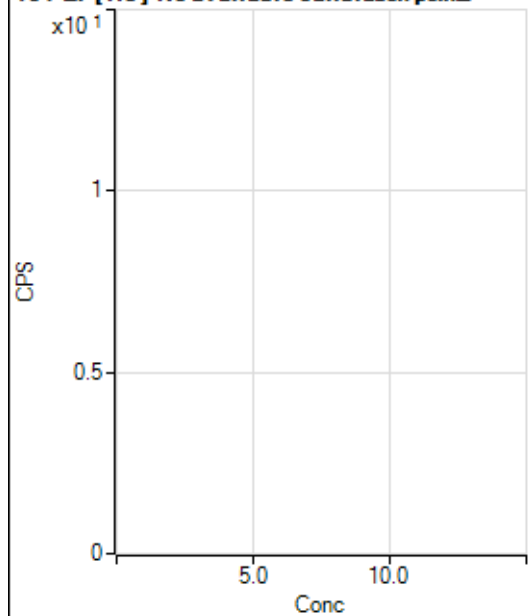
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			55.56		P	17.3
2	☐			97.22		P	42.3
3	☐			125.01		P	23.1
4	☐			155.56		P	39.5
5	☐			186.12		P	6.8
6	☐			313.90		P	5.5
7	☐			505.58		P	14.2
8	☐			858.38		P	2.9

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			170.01		P	14.8
2	☐			195.56		P	9.4
3	☐			206.67		P	8.1
4	☐			220.01		P	22.0
5	☐			300.01		P	12.0
6	☐			335.56		P	4.1
7	☐			526.68		P	7.0
8	☐			793.37		P	14.7

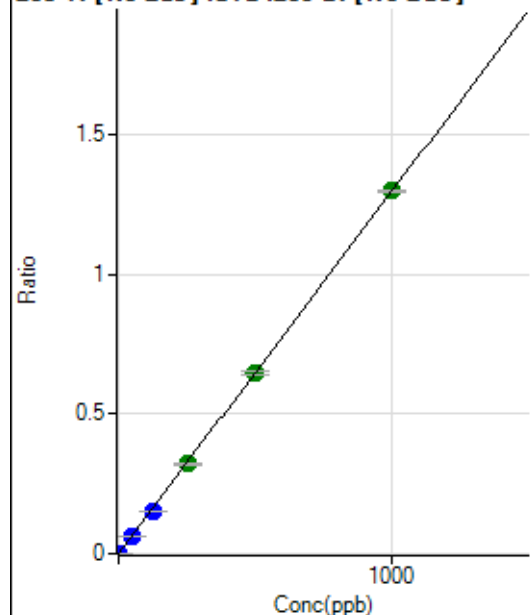
164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			77.78		P	22.3
2	☐			58.34		P	57.1
3	☐			75.00		P	11.1
4	☐			108.34		P	40.7
5	☐			108.34		P	20.4
6	☐			147.23		P	51.4
7	☐			241.67		P	9.1
8	☐			169.45		P	32.0

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			48.89		P	10.4
2	☐			76.67		P	24.2
3	☐			62.22		P	34.9
4	☐			75.55		P	14.2
5	☐			98.89		P	19.5
6	☐			115.56		P	4.4
7	☐			143.34		P	23.6
8	☐			112.22		P	16.4

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	800.05	0.0001	P	19.7
2	☐	1.000	0.858	9564.69	0.0012	P	1.3
3	☐	50.000	46.411	484874.72	0.0602	P	2.8
4	☐	125.000	117.442	1201375.99	0.1521	P	0.6
5	☐	250.000	247.879	2527237.10	0.3208	A	0.8
6	☐	500.000	498.569	5017146.34	0.6452	A	1.5
7	☐	1000.000	1002.370	10145463.68	1.2971	A	0.3
8	☐			5245.62	0.0008	P	3.3

$$y = 0.0013 * x + 1.0374E-004$$

$$R = 1.0000$$

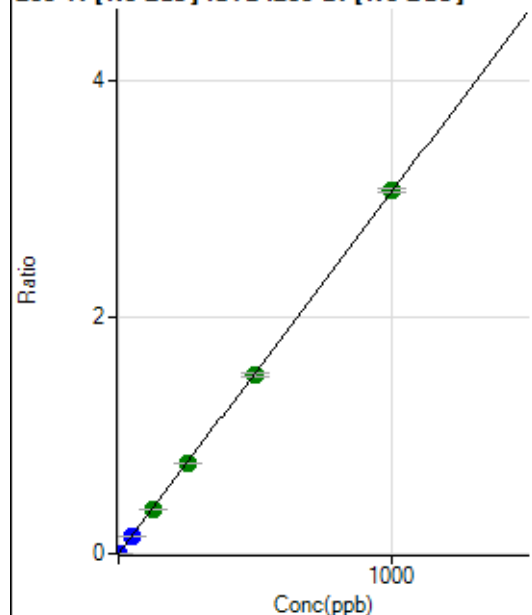
$$DL = 0.04747$$

$$BEC = 0.08017$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	1855.73	0.0002	P	1.6
2	☐	1.000	0.908	23760.10	0.0030	P	0.8
3	☐	50.000	46.365	1144410.70	0.1420	P	3.1
4	☐	125.000	124.107	2999461.16	0.3797	A	0.8
5	☐	250.000	248.290	5981139.67	0.7593	A	0.6
6	☐	500.000	494.567	11759061.98	1.5123	A	1.2
7	☐	1000.000	1003.437	23997670.85	3.0680	A	1.1
8	☐			12322.59	0.0018	P	6.4

$$y = 0.0031 * x + 2.4006E-004$$

$$R = 1.0000$$

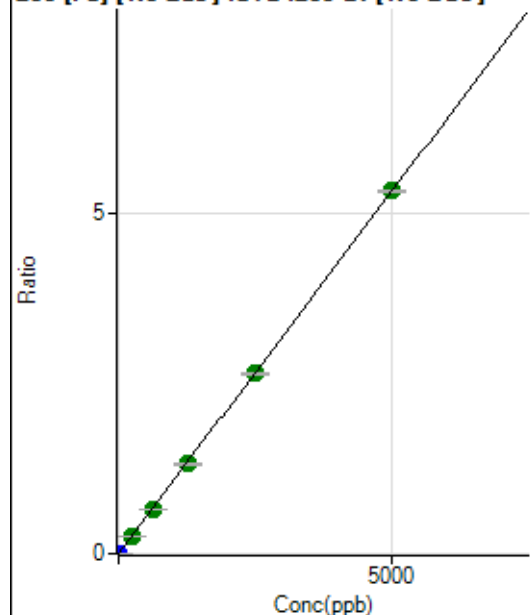
$$DL = 0.003678$$

$$BEC = 0.07852$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	487.05	0.0001	P	9.9
2	☐	1.000	0.869	7791.25	0.0010	P	2.6
3	☐	250.000	246.387	2118099.27	0.2628	A	2.7
4	☐	625.000	620.186	5224732.93	0.6613	A	1.0
5	☐	1250.000	1238.566	10402771.53	1.3207	A	0.9
6	☐	2500.000	2484.962	20603629.86	2.6497	A	0.5
7	☐	5000.000	5011.160	41792904.64	5.3433	A	0.3
8	☐			13189.87	0.0019	P	0.7

$$y = 0.0011 * x + 6.3078E-005$$

$$R = 1.0000$$

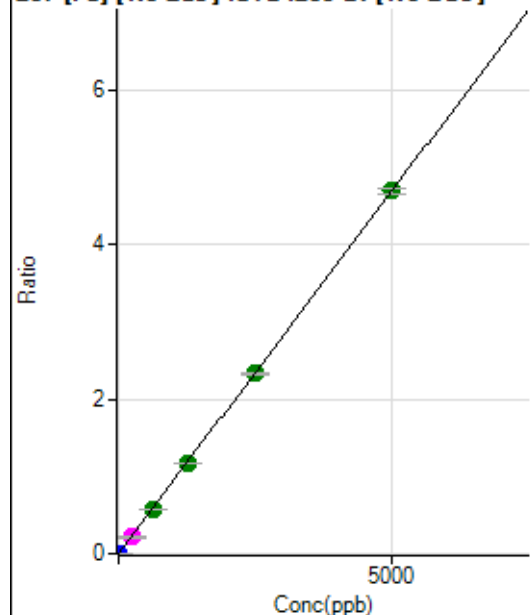
$$DL = 0.01753$$

$$BEC = 0.05916$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	340.75	0.0000	P	3.4
2	☐	1.000	0.875	6798.09	0.0009	P	4.5
3	☐	250.000	228.055	1723070.35	0.2135	M	4.2
4	☐	625.000	620.200	4586881.53	0.5806	A	0.3
5	☐	1250.000	1242.345	9160032.49	1.1629	A	1.1
6	☐	2500.000	2490.661	18128502.03	2.3314	A	0.9
7	☐	5000.000	5008.281	36665888.32	4.6880	A	1.4
8	☐			11099.11	0.0016	P	3.5

$$y = 9.3604E-004 * x + 4.4095E-005$$

$$R = 1.0000$$

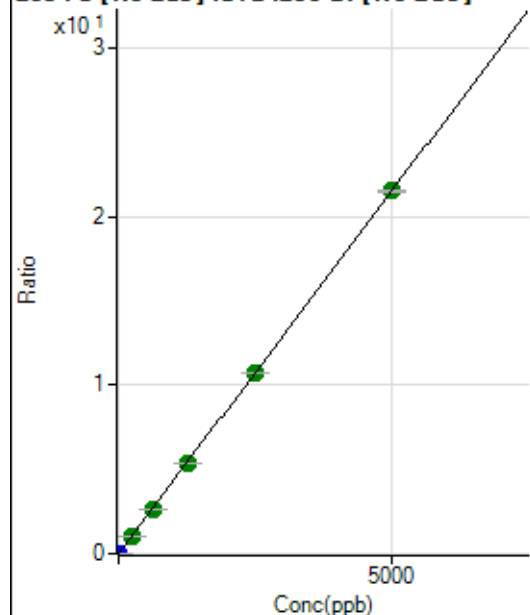
$$DL = 0.004855$$

$$BEC = 0.04711$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	1831.56	0.0002	P	4.8
2	☐	1.000	0.881	31724.44	0.0040	P	0.8
3	☐	250.000	242.343	8406450.11	1.0427	A	1.3
4	☐	625.000	619.149	21042603.14	2.6635	A	0.5
5	☐	1250.000	1244.850	42179556.61	5.3550	A	0.5
6	☐	2500.000	2489.384	83266144.46	10.7083	A	0.5
7	☐	5000.000	5007.710	168482626.45	21.5409	A	0.8
8	☐			51625.96	0.0075	P	1.0

$$y = 0.0043 * x + 2.3705E-004$$

$$R = 1.0000$$

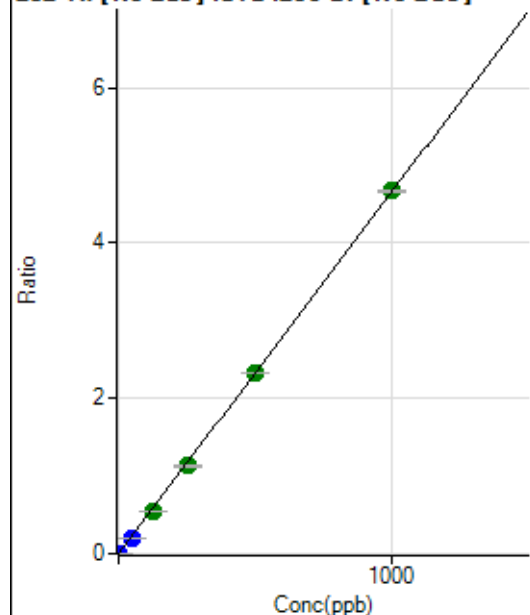
$$DL = 0.007985$$

$$BEC = 0.05511$$

Weight: <None>

Min Conc: 0

232 Th [No Gas] ISTD :209 Bi [No Gas]



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	109.26	0.0000	P	23.8
2	☐	1.000	0.790	29083.86	0.0037	P	2.6
3	☐	50.000	40.994	1538307.30	0.1909	P	2.9
4	☐	125.000	119.069	4379394.34	0.5543	A	0.7
5	☐	250.000	242.052	8875954.94	1.1269	A	0.6
6	☐	500.000	499.141	18068933.62	2.3237	A	0.5
7	☐	1000.000	1003.608	36543360.31	4.6722	A	0.7
8	☐			3933.98	0.0006	P	1.9

$$y = 0.0047 * x + 1.4133E-005$$

$$R = 0.9999$$

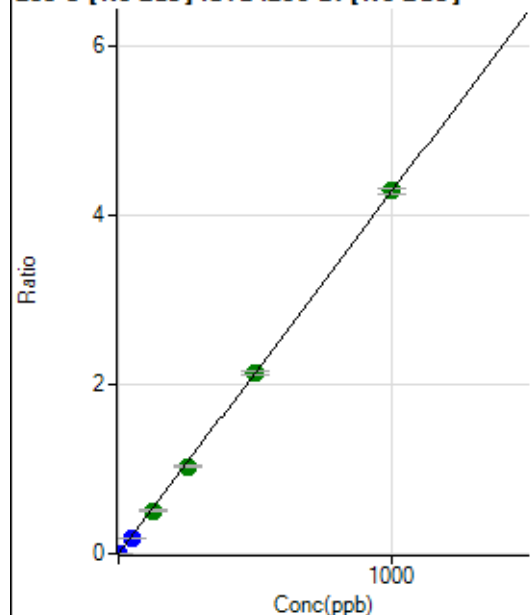
$$DL = 0.002165$$

$$BEC = 0.003036$$

Weight: <None>

Min Conc: 0

238 U [No Gas] ISTD :209 Bi [No Gas]



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	102.78	0.0000	P	7.7
2	☐	1.000	0.820	27732.71	0.0035	P	2.6
3	☐	50.000	41.625	1436419.79	0.1782	P	1.6
4	☐	125.000	119.511	4041360.55	0.5115	A	0.6
5	☐	250.000	241.850	8153688.64	1.0352	A	1.5
6	☐	500.000	500.237	16648959.57	2.1411	A	1.6
7	☐	1000.000	1003.024	33577854.22	4.2931	A	1.2
8	☐			4556.47	0.0007	P	7.0

$$y = 0.0043 * x + 1.3283E-005$$

$$R = 0.9999$$

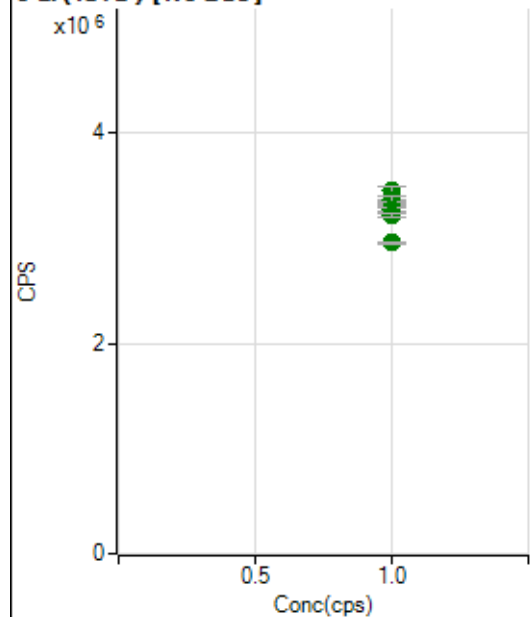
$$DL = 0.0007134$$

$$BEC = 0.003103$$

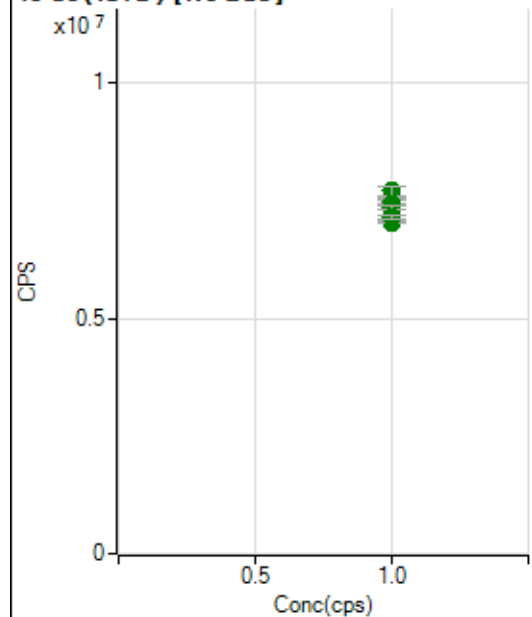
Weight: <None>

Min Conc: 0

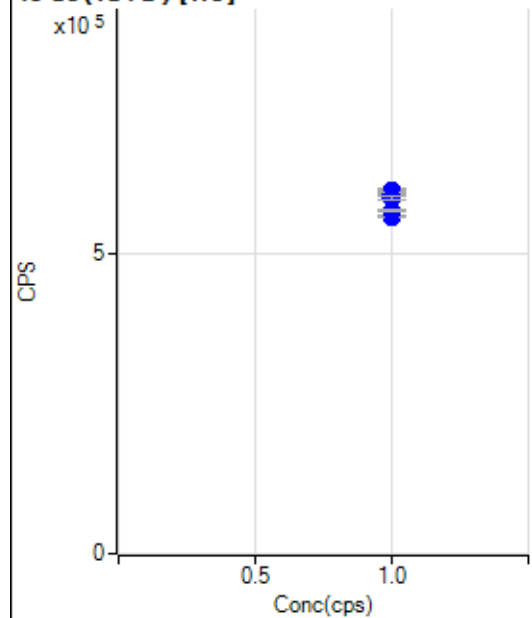
6 Li (ISTD) [No Gas]



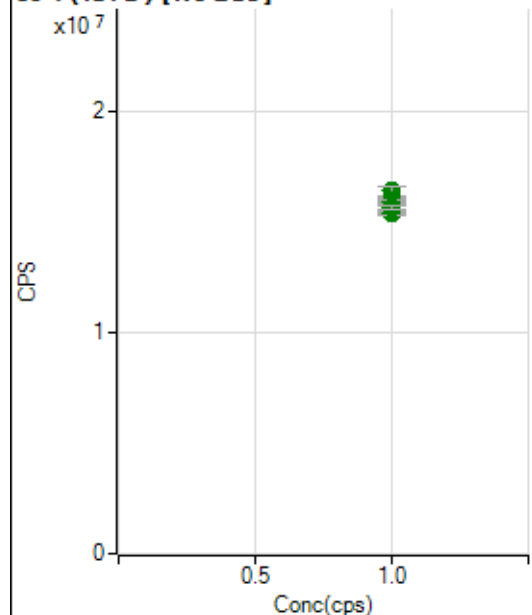
	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		3337653.81		A	1.7
2	☐	1.000		3346757.10		A	1.3
3	☐	1.000		3446593.77		A	2.3
4	☐	1.000		3370217.24		A	1.3
5	☐	1.000		3272519.81		A	1.0
6	☐	1.000		3272309.12		A	0.9
7	☐	1.000		3218331.96		A	1.5
8	☐	1.000		2953760.48		A	0.6

45 Sc (ISTD) [No Gas]

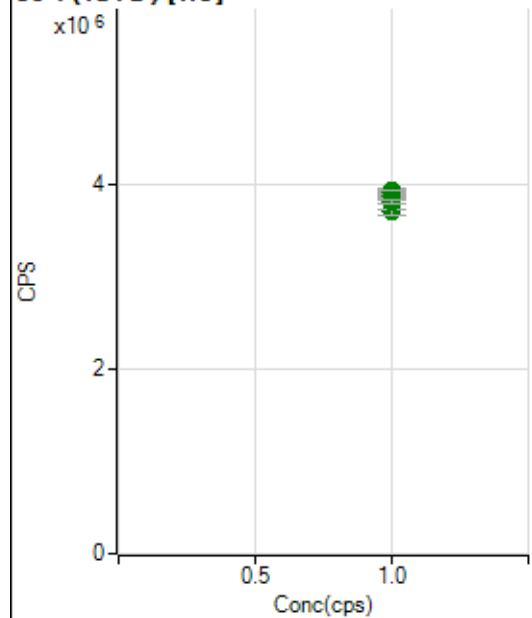
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		7457806.97		A	2.2
2	☐	1.000		7548412.18		A	0.4
3	☐	1.000		7704682.18		A	2.7
4	☐	1.000		7422290.72		A	0.2
5	☐	1.000		7358101.97		A	1.2
6	☐	1.000		7101351.42		A	0.4
7	☐	1.000		7043226.01		A	1.0
8	☐	1.000		7157874.61		A	1.4

45 Sc (ISTD) [He]

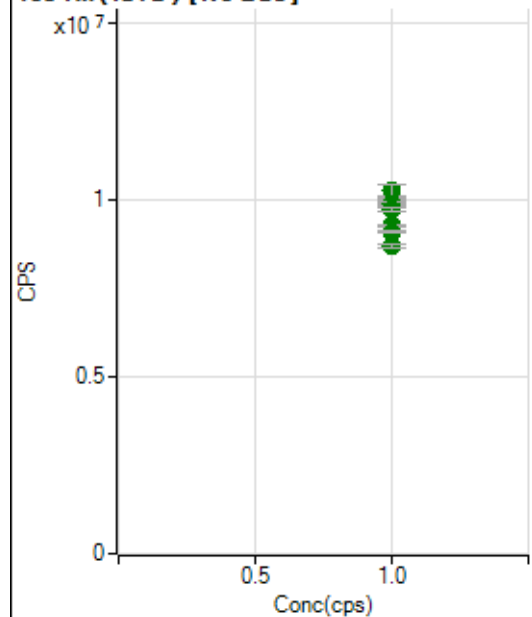
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		600104.77		P	0.5
2	☐	1.000		605588.56		P	1.2
3	☐	1.000		605577.83		P	0.7
4	☐	1.000		600438.70		P	0.7
5	☐	1.000		593960.06		P	0.9
6	☐	1.000		562716.99		P	0.8
7	☐	1.000		572292.01		P	0.2
8	☐	1.000		594044.34		P	0.8

89 Y (ISTD) [No Gas]

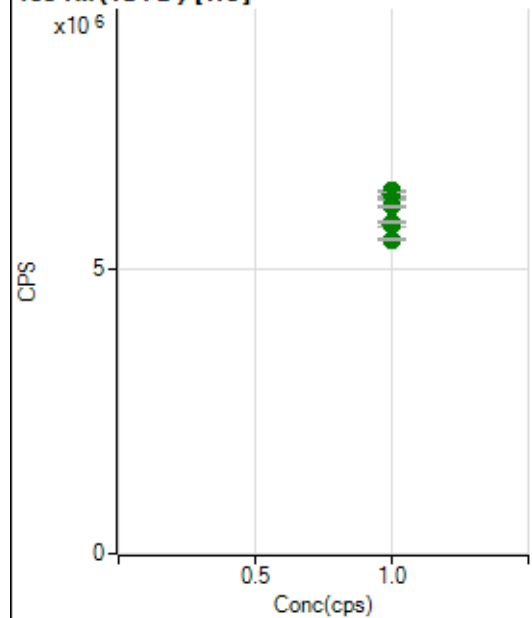
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		15906665.46		A	1.6
2	☐	1.000		16039678.65		A	0.3
3	☐	1.000		16376157.53		A	2.4
4	☐	1.000		15990408.65		A	0.9
5	☐	1.000		15898563.51		A	1.4
6	☐	1.000		15435608.24		A	1.0
7	☐	1.000		15364270.74		A	0.7
8	☐	1.000		15611892.68		A	1.0

89 Y (ISTD) [He]

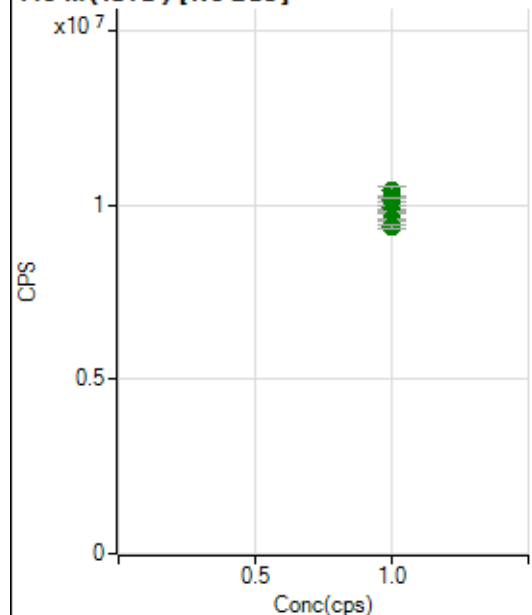
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		3901932.48		A	1.7
2	☐	1.000		3925412.89		A	0.8
3	☐	1.000		3899612.27		A	0.4
4	☐	1.000		3915642.55		A	1.9
5	☐	1.000		3869915.46		A	1.3
6	☐	1.000		3701673.35		A	1.5
7	☐	1.000		3809907.72		A	1.2
8	☐	1.000		3930906.64		A	0.2

103 Rh (ISTD) [No Gas]

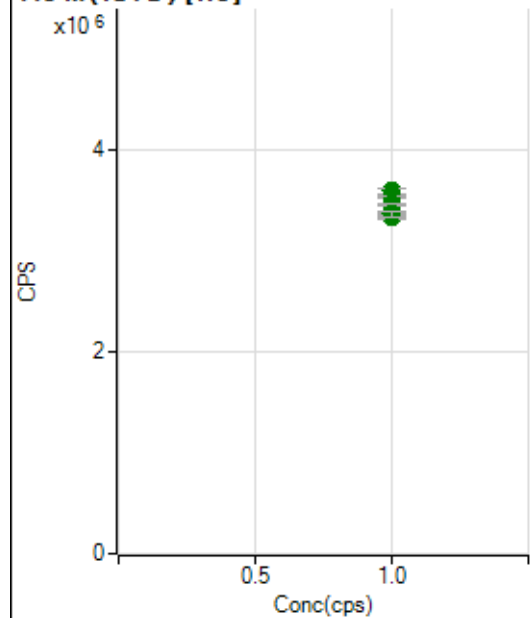
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		9928580.69		A	1.1
2	☐	1.000		10094901.38		A	0.8
3	☐	1.000		10255321.37		A	3.4
4	☐	1.000		9907971.38		A	0.9
5	☐	1.000		9717730.90		A	1.1
6	☐	1.000		9274275.07		A	1.0
7	☐	1.000		9091503.06		A	0.7
8	☐	1.000		8695839.87		A	0.8

103 Rh (ISTD) [He]

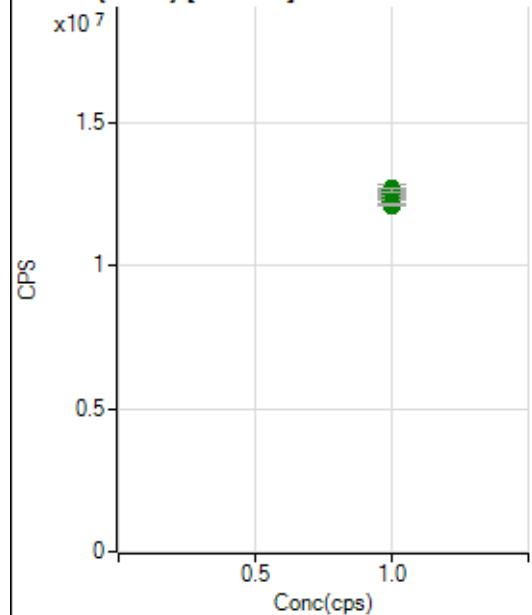
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		6265594.28		A	0.9
2	☐	1.000		6369823.24		A	0.4
3	☐	1.000		6308807.61		A	1.1
4	☐	1.000		6206403.31		A	0.2
5	☐	1.000		6095899.01		A	0.5
6	☐	1.000		5779632.83		A	1.0
7	☐	1.000		5822583.04		A	0.6
8	☐	1.000		5517282.45		A	0.9

115 In (ISTD) [No Gas]

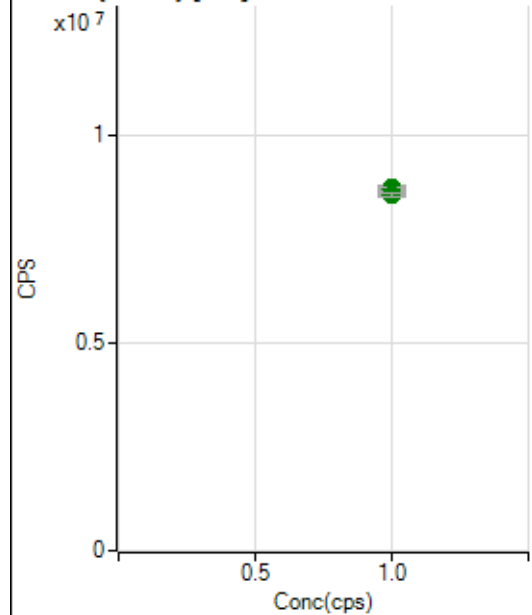
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		10166613.05		A	1.4
2	☐	1.000		10213645.51		A	0.2
3	☐	1.000		10413393.99		A	2.4
4	☐	1.000		10203165.58		A	0.2
5	☐	1.000		9955410.35		A	1.0
6	☐	1.000		9804976.88		A	0.7
7	☐	1.000		9580988.18		A	0.7
8	☐	1.000		9400960.38		A	1.3

115 In (ISTD) [He]

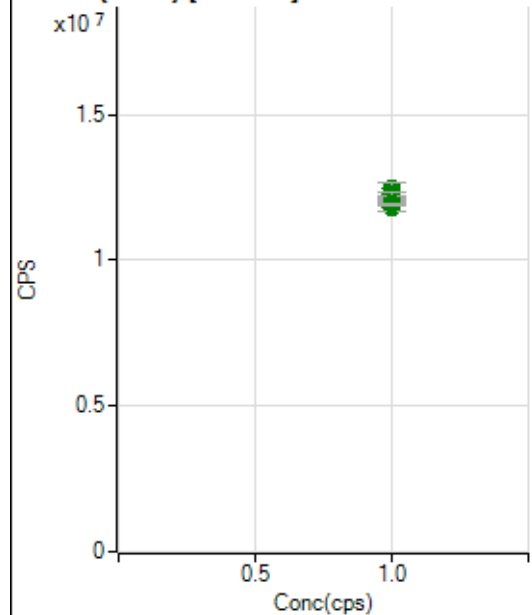
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		3530102.14		A	0.9
2	☐	1.000		3592759.28		A	1.4
3	☐	1.000		3553257.34		A	0.4
4	☐	1.000		3542098.14		A	0.4
5	☐	1.000		3458161.28		A	0.7
6	☐	1.000		3328785.72		A	1.1
7	☐	1.000		3333906.00		A	1.6
8	☐	1.000		3362087.89		A	1.5

159 Tb (ISTD) [No Gas]

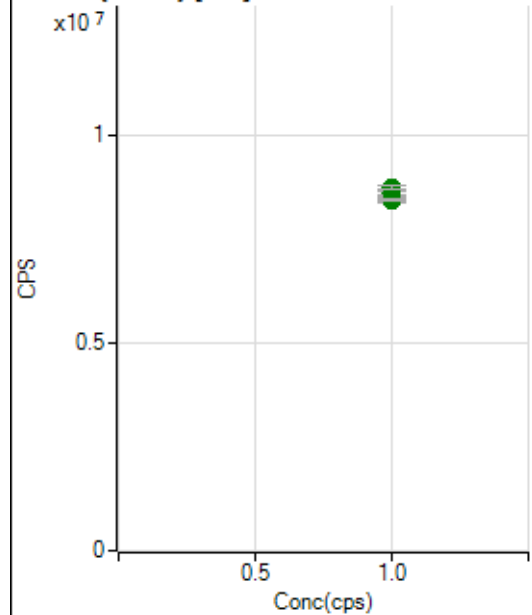
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		12262382.18		A	1.6
2	☐	1.000		12403679.26		A	1.0
3	☐	1.000		12704442.59		A	2.6
4	☐	1.000		12586291.76		A	1.0
5	☐	1.000		12570412.73		A	1.2
6	☐	1.000		12514551.20		A	0.8
7	☐	1.000		12650684.40		A	1.3
8	☐	1.000		12140513.43		A	0.2

159 Tb (ISTD) [He]

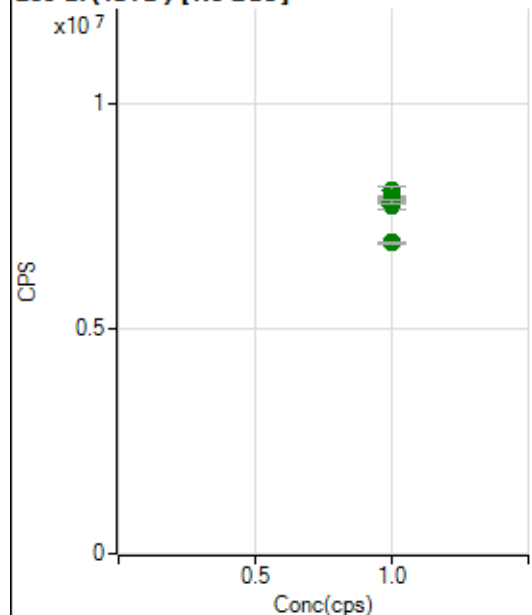
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		8541982.65		A	0.9
2	☐	1.000		8627223.97		A	0.9
3	☐	1.000		8706538.06		A	0.5
4	☐	1.000		8663551.12		A	0.1
5	☐	1.000		8725396.33		A	1.3
6	☐	1.000		8592480.29		A	0.9
7	☐	1.000		8688968.97		A	1.3
8	☐	1.000		8545731.75		A	1.1

165 Ho (ISTD) [No Gas]

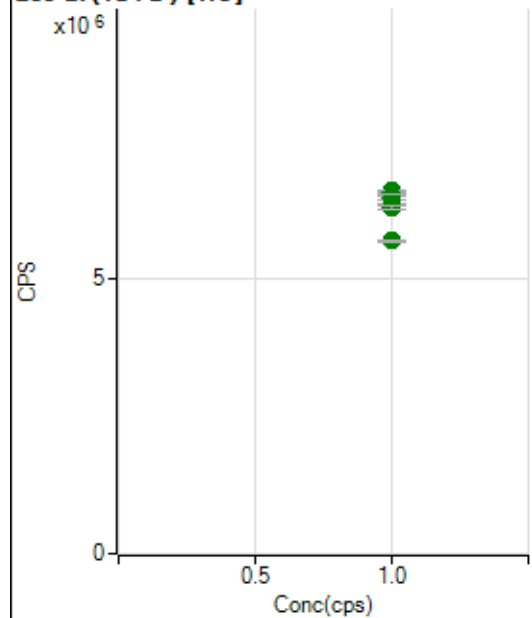
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		11830351.63		A	2.2
2	☐	1.000		11944303.71		A	1.0
3	☐	1.000		12441663.70		A	3.5
4	☐	1.000		12118844.40		A	0.1
5	☐	1.000		12098441.07		A	0.8
6	☐	1.000		12092823.57		A	0.5
7	☐	1.000		12263755.10		A	0.7
8	☐	1.000		11912506.77		A	0.7

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		8445385.43		A	1.3
2	☐	1.000		8588783.62		A	1.4
3	☐	1.000		8537675.71		A	1.2
4	☐	1.000		8524687.51		A	1.2
5	☐	1.000		8628294.94		A	1.6
6	☐	1.000		8556732.51		A	0.3
7	☐	1.000		8743098.69		A	1.1
8	☐	1.000		8464766.19		A	0.6

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		7730714.40		A	1.9
2	☐	1.000		7875593.70		A	1.0
3	☐	1.000		8064039.39		A	2.7
4	☐	1.000		7900505.65		A	0.8
5	☐	1.000		7876773.01		A	0.3
6	☐	1.000		7775862.52		A	0.2
7	☐	1.000		7821503.29		A	0.6
8	☐	1.000		6909188.44		A	0.7

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		6532546.71		A	0.7
2	☐	1.000		6611590.80		A	0.3
3	☐	1.000		6580164.62		A	1.1
4	☐	1.000		6518033.86		A	0.5
5	☐	1.000		6496299.21		A	1.4
6	☐	1.000		6366258.86		A	0.7
7	☐	1.000		6309039.70		A	0.9
8	☐	1.000		5700857.69		A	0.2

US EPA Tune Check Report

Operator Name Jaswal

Acq/Data Batch D:\Agilent\ICPMH\1\DATA\IP7050622 MS.b

Acq. Date-Time 2022-05-06 10:58:34

Report Comment ---

Instrument Name G8403A JP14410463

[No Gas]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
9		11887	118869.09			0.406	5.000
24		110741	1107405.66			0.879	5.000
25		14593	145926.76			0.593	5.000
26		16658	166578.95			0.818	5.000
59		27296	272956.32			0.781	5.000
113		11796	117962.41			0.705	5.000
115		33265	332653.03			1.242	5.000
206		15053	150527.04			0.666	5.000
207		12808	128083.76			0.826	5.000
208		31140	311397.45			0.665	5.000
220		0	2.40			40.074	

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

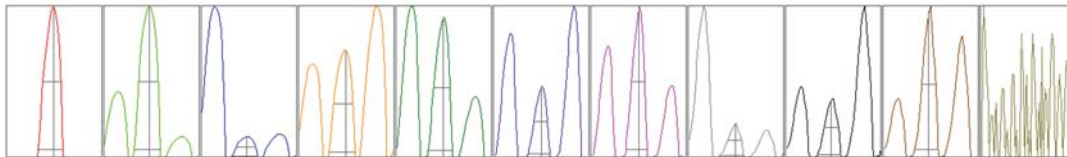
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	11903	11905	11948	11855	11823
24	110476	111524	111980	109955	109767
25	14674	14667	14596	14563	14463
26	16775	16759	16726	16563	16466
59	27413	27478	27403	27234	26950
113	11881	11861	11815	11744	11681
115	33761	33511	33346	32978	32730
206	15072	15164	15080	15059	14889
207	12812	12980	12789	12767	12694
208	31179	31437	31180	31018	30884

US EPA Tune Check Report

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

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	22310.26	9.00	8.90 - 9.10	
24	189834.56	23.95	23.90 - 24.10	
25	24857.23	24.95	24.90 - 25.10	
26	28560.85	26.00	25.90 - 26.10	
59	55295.39	59.00	58.90 - 59.10	
113	28166.51	113.05	112.90 - 113.10	
115	81203.75	115.05	114.90 - 115.10	
206	34571.27	206.00	205.90 - 206.10	
207	27887.11	206.95	206.90 - 207.10	
208	70366.02	207.95	207.90 - 208.10	
220			-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.56	0.775	0.900	
24	0.61	0.821	0.900	
25	0.61	0.789	0.900	
26	0.61	0.821	0.900	
59	0.51	0.762	0.900	
113	0.42	0.681	0.900	
115	0.42	0.678	0.900	
206	0.45	0.745	0.900	
207	0.46	0.728	0.900	
208	0.44	0.748	0.900	
220				

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode --- Nebulizer Gas 0.73 L/min Dilution Gas 0.40 L/min

US EPA Tune Check Report

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

Lens Parameters

Extract 1	0.0 V	Omega Lens	7.7 V	Deflect	14.0 V
Extract 2	-125.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-60 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	---	OctP RF	190 V		

QP Parameters

Mass Gain	123	Axis Gain	1.0001	QP Bias	-3.0 V
Mass Offset	125	Axis Offset	-0.01		

Hardware Settings

Torch

Torch H	-0.8 mm	Torch V	0.9 mm
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EM

Discriminator	3.1 mV	Analog HV	2167 V	Pulse HV	1420 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		9195	91954.05			0.224	
89		45530	455300.03			0.280	
205		54001	540014.55			0.731	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	9162	9201	9201	9196	9218
89	45455	45512	45739	45407	45538
205	54374	54439	53639	53602	53953

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.73 L/min	Dilution Gas	0.40 L/min
RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.80 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	9.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	8.8 V	Deflect	3.0 V
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US EPA Tune Check Report

Extract 2	-140.0 V	Cell Entrance	-40 V	Plate Bias	-60 V
Omega Bias	-65 V	Cell Exit	-60 V		

Cell Parameters

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

QP Parameters

Mass Gain	123	Axis Gain	1.0001	QP Bias	-13.0 V
Mass Offset	125	Axis Offset	-0.01		

Hardware Settings

Torch

Torch H	-0.8 mm	Torch V	0.9 mm
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EM

Discriminator	3.1 mV	Analog HV	2167 V	Pulse HV	1420 V
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