

US EPA Tune Check Report

Operator Name Jaswal
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\P8021621MS.b
Acq. Date-Time 2021-02-16 11:30:48
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		4063	40632.85			0.898	5.000
24		43793	437932.95			0.872	5.000
25		6116	61160.30			0.951	5.000
26		6911	69105.95			1.000	5.000
59		6811	68113.01			1.070	5.000
113		2750	27502.62			1.151	5.000
115		9081	90809.85			0.632	5.000
206		2908	29083.53			1.762	5.000
207		2436	24362.07			1.634	5.000
208		5954	59541.14			1.318	5.000
220		1	10.70			23.035	

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

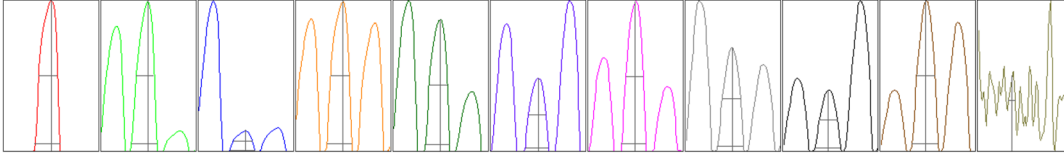
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	4069	4063	4068	4007	4109
24	43610	43462	43903	43580	44411
25	6137	6055	6164	6053	6171
26	6932	6822	6984	6855	6960
59	6803	6691	6853	6832	6878
113	2727	2741	2737	2741	2806
115	9091	9115	9091	8982	9126
206	2865	2889	2903	2889	2997
207	2419	2398	2436	2425	2503
208	5870	5924	5954	5941	6082

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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	7200.66	9.05	8.90 - 9.10	
24	81068.08	24.00	23.90 - 24.10	
25	10844.54	25.00	24.90 - 25.10	
26	12335.50	26.00	25.90 - 26.10	
59	12494.96	59.00	58.90 - 59.10	
113	5250.62	113.05	112.90 - 113.10	
115	17291.20	115.00	114.90 - 115.10	
206	5297.48	206.00	205.90 - 206.10	
207	4432.69	206.95	206.90 - 207.10	
208	10943.33	207.95	207.90 - 208.10	
220	1.35	219.60	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.60	0.774	0.900	
24	0.57	0.812	0.900	
25	0.61	0.784	0.900	
26	0.60	0.786	0.900	
59	0.58	0.765	0.900	
113	0.55	0.735	0.900	
115	0.54	0.769	0.900	
206	0.58	0.817	0.900	
207	0.57	0.821	0.900	
208	0.57	0.825	0.900	
220	0.22			

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode HMI Nebulizer Gas 0.52 L/min Dilution Gas 0.47 L/min

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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	15.2 V
Extract 2	-240.0 V	Cell Entrance	-30 V	Plate Bias	-50 V
Omega Bias	-105 V	Cell Exit	-50 V		

Cell Parameters

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

QP Parameters

Mass Gain	121	Axis Gain	0.9991	QP Bias	-4.0 V
Mass Offset	125	Axis Offset	-0.02		

Hardware Settings

Torch

Torch H	0.6 mm	Torch V	-0.3 mm
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EM

Discriminator	4.0 mV	Analog HV	2190 V	Pulse HV	1356 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		1426	14255.90			0.848	
89		7778	77784.05			0.456	
205		2775	27753.80			1.248	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	1430	1410	1435	1416	1437
89	7810	7733	7809	7749	7792
205	2824	2795	2769	2743	2745

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	HMI	Nebulizer Gas	0.52 L/min	Dilution Gas	0.47 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	5.8 V
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Extract 2	-240.0 V	Cell Entrance	-50 V	Plate Bias	-60 V
Omega Bias	-105 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	190 V		
QP Parameters					
Mass Gain	121	Axis Gain	0.9991	QP Bias	-13.0 V
Mass Offset	125	Axis Offset	-0.02		
Hardware Settings					
Torch					
Torch H	0.6 mm	Torch V	-0.3 mm		
EM					
Discriminator	4.0 mV	Analog HV	2190 V	Pulse HV	1356 V