

US EPA Tune Check Report

Operator Name Jaswal
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\P8053123 MS.b
Acq. Date-Time 2023-05-31 10:17:28
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		10668	106678.63			1.312	5.000
24		73895	738952.65			1.351	5.000
25		9845	98454.94			1.363	5.000
26		11680	116798.51			1.058	5.000
59		54682	546823.83			0.901	5.000
113		6234	62343.54			1.533	5.000
115		77521	775208.67			1.813	5.000
206		19022	190217.66			1.237	5.000
207		17259	172588.53			1.381	5.000
208		41777	417772.13			0.887	5.000
220		0	2.40			34.233	

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

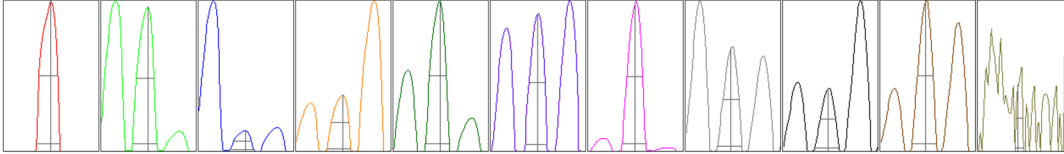
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	10671	10834	10679	10446	10710
24	74863	74755	72752	72932	74174
25	10007	9942	9719	9701	9858
26	11817	11759	11545	11555	11723
59	54767	54843	54622	53913	55267
113	6273	6343	6174	6102	6281
115	78141	78916	76263	75781	78503
206	18797	19252	18955	18817	19288
207	17205	17302	17162	16991	17635
208	41569	42070	41815	41262	42170

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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	19594.91	9.00	8.90 - 9.10	
24	138120.30	24.00	23.90 - 24.10	
25	18566.60	25.00	24.90 - 25.10	
26	21671.94	26.00	25.90 - 26.10	
59	108012.96	59.00	58.90 - 59.10	
113	12803.47	113.00	112.90 - 113.10	
115	161405.50	115.00	114.90 - 115.10	
206	38458.52	205.95	205.90 - 206.10	
207	35455.31	206.95	206.90 - 207.10	
208	85087.75	207.95	207.90 - 208.10	
220	0.35	219.80	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.59	0.737	0.900	
24	0.56	0.775	0.900	
25	0.56	0.741	0.900	
26	0.57	0.739	0.900	
59	0.53	0.762	0.900	
113	0.50	0.687	0.900	
115	0.49	0.749	0.900	
206	0.50	0.769	0.900	
207	0.49	0.771	0.900	
208	0.49	0.776	0.900	
220	0.20	0.245		

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode --- Nebulizer Gas 0.84 L/min Dilution Gas 0.40 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	10.6 V	Deflect	14.8 V
Extract 2	-190.0 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	150 V		

QP Parameters

Mass Gain	123	Axis Gain	0.9992	QP Bias	-4.0 V
Mass Offset	126	Axis Offset	-0.01		

Hardware Settings

Torch

Torch H	1.4 mm	Torch V	-0.9 mm
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EM

Discriminator	4.4 mV	Analog HV	2323 V	Pulse HV	1708 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		12106	121058.01			0.654	
89		10204	102044.14			1.141	
205		15068	150676.80			0.471	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	12103	12226	12071	12120	12009
89	10210	10364	10083	10263	10102
205	15122	15127	15046	15088	14955

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.84 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	10.6 V	Deflect	4.2 V
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Extract 2	-190.0 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	200 V		
QP Parameters					
Mass Gain	123	Axis Gain	0.9992	QP Bias	-13.0 V
Mass Offset	126	Axis Offset	-0.01		
Hardware Settings					
Torch					
Torch H	1.4 mm	Torch V	-0.9 mm		
EM					
Discriminator	4.4 mV	Analog HV	2323 V	Pulse HV	1708 V