



# Houston Forensic Science Center

Comparative and Analytical Division - Toxicology

## LC-MS/MS Maintenance Log

Instrument: LC-MS 1

Date	N <sub>2</sub> Tank Pressure	N <sub>2</sub> Generator Pressure	Rough Pump Oil Level Checked	Waste Bottle Checked/Emptied	Prepared Mobile Phases	Wash Solvents Checked/Replaced	Spray Chamber Cleaned	Checktune	Autotune (Monthly)	Column Changed	Comments	Initials
12/15/2020	30 1900	100	✓	✓	✓	✓	✓	✓	X	X		KA
12/18/2020 SID												

Signature:

Date Completed: 12/18/2020

# QQQ Check Tune Report

**Instrument Name** LCMS-1  
**MS Model** G6470A  
**MS Instrument Serial** SG1939G104  
**Software\_Firmware Version** 10.0.142, FW: A.00.08.100  
**Tune Date & Time** 15 December 2020 12:23:01  
**Data Path** D:\MassHunter\Tune\QQQ\G6470A\atunes.TUNE.XML  
**Ion Source** AJS ESI  
**Ionization Mode** AJS ESI  
**Tuned Resolution** All  
**Vacuum Pressure** 1.65E+0 [R] (Torr); 4.64E-5 [H] (Torr)

## Source Parameters

Parameter	Positive	Negative
Gas Temp (°C)	300	300
Gas Flow (l/min)	8	8
Nebulizer (psi)	15	15
Capillary (V)	4000	4000
Nozzle Voltage (V)	1500	1500
Sheath Gas Temp (°C)	250	250
Sheath Gas Flow (l/min)	7	7

## Positive Results

**Analyzer: MS1 Polarity: Positive Width: Unit**

m/z Expected	m/z Measured	Delta	Result	FWHM Expected	FWHM Measured	Delta	Result	Abundance
118.09	118.09	0.00	Pass	0.70	0.69	-0.01	Pass	225250
322.05	322.08	0.03	Pass	0.70	0.71	0.01	Pass	127872
622.03	622.03	0.00	Pass	0.70	0.68	-0.02	Pass	118086
922.01	922.01	0.00	Pass	0.70	0.70	0.00	Pass	90344
1521.97	1522.00	0.03	Pass	0.70	0.71	0.01	Pass	30662
2121.93	2121.96	0.03	Pass	0.70	0.72	0.02	Pass	23006

**Analyzer: MS2 Polarity: Positive Width: Unit**

m/z Expected	m/z Measured	Delta	Result	FWHM Expected	FWHM Measured	Delta	Result	Abundance
118.09	118.09	0.00	Pass	0.70	0.70	0.00	Pass	183549
322.05	322.03	-0.02	Pass	0.70	0.68	-0.02	Pass	145855
622.03	622.03	0.00	Pass	0.70	0.69	-0.01	Pass	138810
922.01	922.01	0.00	Pass	0.70	0.67	-0.03	Pass	99060
1521.97	1521.99	0.02	Pass	0.70	0.67	-0.03	Pass	57056
2121.93	2121.99	0.06	Pass	0.70	0.67	-0.03	Pass	59518

**Analyzer: MS1 Polarity: Positive Width: Wide**

m/z Expected	m/z Measured	Delta	Result	FWHM Expected	FWHM Measured	Delta	Result	Abundance
118.09	118.12	0.03	Pass	1.20	1.19	-0.01	Pass	251788
322.05	322.08	0.03	Pass	1.20	1.48	0.28	Pass	188011
622.03	622.07	0.04	Pass	1.20	1.54	0.34	Pass	205894
922.01	922.04	0.03	Pass	1.20	1.53	0.33	Pass	174423
1521.97	1521.99	0.02	Pass	1.20	1.37	0.17	Pass	64165
2121.93	2121.91	-0.02	Pass	1.20	1.14	-0.06	Pass	58153

**Analyzer: MS2 Polarity: Positive Width: Wide**

m/z Expected	m/z Measured	Delta	Result	FWHM Expected	FWHM Measured	Delta	Result	Abundance
118.09	118.09	0.00	Pass	1.20	1.19	-0.01	Pass	233287
322.05	322.06	0.01	Pass	1.20	1.41	0.21	Pass	220347
622.03	622.06	0.03	Pass	1.20	1.54	0.34	Pass	238370
922.01	922.02	0.01	Pass	1.20	1.49	0.29	Pass	210169
1521.97	1521.97	0.00	Pass	1.20	1.44	0.24	Pass	124221
2121.93	2121.99	0.06	Pass	1.20	1.21	0.01	Pass	116334

**Analyzer: MS1 Polarity: Positive Width: Widest**

m/z Expected	m/z Measured	Delta	Result	FWHM Expected	FWHM Measured	Delta	Result	Abundance
118.09	118.09	0.00	Pass	2.50	2.50	0.00	Pass	309421
322.05	322.09	0.04	Pass	2.50	2.70	0.20	Pass	244591
622.03	622.06	0.03	Pass	2.50	2.87	0.37	Pass	271288
922.01	922.07	0.06	Pass	2.50	2.70	0.20	Pass	269319
1521.97	1522.04	0.07	Pass	2.50	2.63	0.13	Pass	116856
2121.93	2121.88	-0.05	Pass	2.50	2.49	-0.01	Pass	126550

# QQQ Check Tune Report



Agilent

Trusted Answers

Analyzer: MS2 Polarity: Positive Width: Widest

m/z Expected	m/z Measured	Delta	Result	FWHM Expected	FWHM Measured	Delta	Result	Abundance
118.09	118.10	0.01	Pass	2.50	2.49	-0.01	Pass	320422
322.05	322.08	0.03	Pass	2.50	2.67	0.17	Pass	297003
622.03	622.07	0.04	Pass	2.50	2.84	0.34	Pass	317121
922.01	922.05	0.04	Pass	2.50	2.74	0.24	Pass	311266
1521.97	1522.01	0.04	Pass	2.50	2.60	0.10	Pass	227243
2121.93	2121.88	-0.05	Pass	2.50	2.39	-0.11	Pass	291673

## Negative Results

**Analyzer: MS1 Polarity: Negative Width: Unit**

m/z Expected	m/z Measured	Delta	Result	FWHM Expected	FWHM Measured	Delta	Result	Abundance
112.99	112.98	-0.01	Pass	0.70	0.69	-0.01	Pass	230078
302.00	302.00	0.00	Pass	0.70	0.70	0.00	Pass	90488
601.98	602.00	0.02	Pass	0.70	0.68	-0.02	Pass	485164
1033.99	1034.04	0.05	Pass	0.70	0.66	-0.04	Pass	232137
1633.95	1633.99	0.04	Pass	0.70	0.68	-0.02	Pass	411144
2233.91	2233.98	0.07	Pass	0.70	0.64	-0.06	Pass	246198

**Analyzer: MS2 Polarity: Negative Width: Unit**

m/z Expected	m/z Measured	Delta	Result	FWHM Expected	FWHM Measured	Delta	Result	Abundance
112.99	112.99	0.00	Pass	0.70	0.69	-0.01	Pass	153786
302.00	302.00	0.00	Pass	0.70	0.69	-0.01	Pass	83708
601.98	601.99	0.01	Pass	0.70	0.68	-0.02	Pass	397248
1033.99	1034.00	0.01	Pass	0.70	0.69	-0.01	Pass	213777
1633.95	1633.96	0.01	Pass	0.70	0.67	-0.03	Pass	603775
2233.91	2233.91	0.00	Pass	0.70	0.73	0.03	Pass	248640

**Analyzer: MS1 Polarity: Negative Width: Wide**

m/z Expected	m/z Measured	Delta	Result	FWHM Expected	FWHM Measured	Delta	Result	Abundance
112.99	112.99	0.00	Pass	1.20	1.20	0.00	Pass	275075
302.00	301.99	-0.01	Pass	1.20	1.47	0.27	Pass	123752
601.98	602.01	0.03	Pass	1.20	1.62	0.42	Pass	846176
1033.99	1034.05	0.06	Pass	1.20	1.53	0.33	Pass	526011
1633.95	1633.98	0.03	Pass	1.20	1.33	0.13	Pass	1181632
2233.91	2233.91	0.00	Pass	1.20	1.12	-0.08	Pass	756432

**Analyzer: MS2 Polarity: Negative Width: Wide**

m/z Expected	m/z Measured	Delta	Result	FWHM Expected	FWHM Measured	Delta	Result	Abundance
112.99	112.97	-0.02	Pass	1.20	1.26	0.06	Pass	231976
302.00	301.97	-0.03	Pass	1.20	1.44	0.24	Pass	118213
601.98	601.98	0.00	Pass	1.20	1.59	0.39	Pass	719476
1033.99	1033.98	-0.01	Pass	1.20	1.59	0.39	Pass	523295
1633.95	1633.93	-0.02	Pass	1.20	1.51	0.31	Pass	1524922
2233.91	2233.85	-0.06	Pass	1.20	1.20	0.00	Pass	636777

**Analyzer: MS1 Polarity: Negative Width: Widest**

m/z Expected	m/z Measured	Delta	Result	FWHM Expected	FWHM Measured	Delta	Result	Abundance
112.99	112.99	0.00	Pass	2.50	2.48	-0.02	Pass	325509
302.00	302.01	0.01	Pass	2.50	2.75	0.25	Pass	154298
601.98	602.03	0.05	Pass	2.50	2.87	0.37	Pass	1145441
1033.99	1034.07	0.08	Pass	2.50	2.80	0.30	Pass	865575
1633.95	1634.05	0.10	Pass	2.50	2.63	0.13	Pass	2429519
2233.91	2233.94	0.03	Pass	2.50	2.36	-0.14	Pass	2402560

**Analyzer: MS2 Polarity: Negative Width: Widest**

m/z Expected	m/z Measured	Delta	Result	FWHM Expected	FWHM Measured	Delta	Result	Abundance
112.99	112.98	-0.01	Pass	2.50	2.43	-0.07	Pass	321819
302.00	301.99	-0.01	Pass	2.50	2.67	0.17	Pass	154333
601.98	601.97	-0.01	Pass	2.50	2.84	0.34	Pass	989627
1033.99	1033.98	-0.01	Pass	2.50	2.83	0.33	Pass	820330
1633.95	1633.92	-0.03	Pass	2.50	2.77	0.27	Pass	2888976
2233.91	2233.81	-0.10	Pass	2.50	2.41	-0.09	Pass	2167460