



# Houston Forensic Science Center

Comparative and Analytical Division - Toxicology

## LC-MS/MS Maintenance Log

Instrument: LCMS-3

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
2021/12/13	30/1400	100	✓	✓	✓	✓	✓	✓	X	X		Ke

12/20/21 SS

Signature:

Date Completed:

12/20/21

# QQQ Check Tune Report

**Instrument Name** LCMS-3  
**MS Model** G6470B  
**MS Instrument Serial** SG2050G211  
**Software\_Firmware Version** 10.1.67, FW: A.00.08.112  
**Tune Date & Time** 13 December 2021 08:09:52  
**File Path** D:\MassHunter\Tune\QQQ\G6470B\tunes.TUNE.XML  
**Ion Source** AJS ESI  
**Ionization Mode** AJS ESI  
**Tuned Resolution** All  
**Vacuum Pressure** 1.52E+0 [R] (Torr); 3.90E-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	3500
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	0.70	0.00	Pass	762998
322.05	322.04	-0.01	Pass	0.70	0.70	0.00	Pass	372591
622.03	622.02	-0.01	Pass	0.70	0.68	-0.02	Pass	299839
922.01	922.02	0.01	Pass	0.70	0.69	-0.01	Pass	236865
1521.97	1522.00	0.03	Pass	0.70	0.68	-0.02	Pass	95736
2121.93	2121.91	-0.02	Pass	0.70	0.72	0.02	Pass	76882

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

m/z Expected	m/z Measured	Delta	Result	FWHM Expected	FWHM Measured	Delta	Result	Abundance
118.09	118.08	-0.01	Pass	0.70	0.70	0.00	Pass	600029
322.05	322.06	0.01	Pass	0.70	0.67	-0.03	Pass	265793
622.03	622.02	-0.01	Pass	0.70	0.71	0.01	Pass	196144
922.01	921.99	-0.02	Pass	0.70	0.72	0.02	Pass	141017
1521.97	1521.93	-0.04	Pass	0.70	0.71	0.01	Pass	78467
2121.93	2121.83	-0.10	Pass	0.70	0.71	0.01	Pass	77051

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

m/z Expected	m/z Measured	Delta	Result	FWHM Expected	FWHM Measured	Delta	Result	Abundance
118.09	118.10	0.01	Pass	1.20	1.16	-0.04	Pass	955123
322.05	322.06	0.01	Pass	1.20	1.27	0.07	Pass	469818
622.03	622.07	0.04	Pass	1.20	1.27	0.07	Pass	408617
922.01	922.01	0.00	Pass	1.20	1.29	0.09	Pass	342687
1521.97	1522.00	0.03	Pass	1.20	1.23	0.03	Pass	148935
2121.93	2121.86	-0.07	Pass	1.20	1.19	-0.01	Pass	109176

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

m/z Expected	m/z Measured	Delta	Result	FWHM Expected	FWHM Measured	Delta	Result	Abundance
118.09	118.08	-0.01	Pass	1.20	1.20	0.00	Pass	796185
322.05	322.07	0.02	Pass	1.20	1.35	0.15	Pass	393068
622.03	622.01	-0.02	Pass	1.20	1.37	0.17	Pass	339626
922.01	921.96	-0.05	Pass	1.20	1.34	0.14	Pass	257730
1521.97	1521.89	-0.08	Pass	1.20	1.35	0.15	Pass	156422
2121.93	2121.88	-0.05	Pass	1.20	1.26	0.06	Pass	140688

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

m/z Expected	m/z Measured	Delta	Result	FWHM Expected	FWHM Measured	Delta	Result	Abundance
118.09	118.06	-0.03	Pass	2.50	2.46	-0.04	Pass	1122517
322.05	322.06	0.01	Pass	2.50	2.58	0.08	Pass	631644
622.03	622.01	-0.02	Pass	2.50	2.64	0.14	Pass	572360
922.01	922.02	0.01	Pass	2.50	2.65	0.15	Pass	562174
1521.97	1522.00	0.03	Pass	2.50	2.62	0.12	Pass	289898
2121.93	2121.88	-0.05	Pass	2.50	2.58	0.08	Pass	311063

**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	2.42	-0.08	Pass	1154150
322.05	321.99	-0.06	Pass	2.50	2.57	0.07	Pass	625511
622.03	622.01	-0.02	Pass	2.50	2.58	0.08	Pass	562273
922.01	921.93	-0.08	Pass	2.50	2.46	-0.04	Pass	498979
1521.97	1521.89	-0.08	Pass	2.50	2.47	-0.03	Pass	332216
2121.93	2121.81	-0.12	Pass	2.50	2.41	-0.09	Pass	360939

## 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	112.99	0.00	Pass	0.70	0.70	0.00	Pass	259781
302.00	302.00	0.00	Pass	0.70	0.69	-0.01	Pass	280547
601.98	601.99	0.01	Pass	0.70	0.68	-0.02	Pass	697260
1033.99	1033.97	-0.02	Pass	0.70	0.70	0.00	Pass	451221
1633.95	1633.92	-0.03	Pass	0.70	0.71	0.01	Pass	851161
2233.91	2233.82	-0.09	Pass	0.70	0.75	0.05	Pass	688464

**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	0.70	0.00	Pass	204000
302.00	302.02	0.02	Pass	0.70	0.68	-0.02	Pass	289306
601.98	601.96	-0.02	Pass	0.70	0.69	-0.01	Pass	543976
1033.99	1033.92	-0.07	Pass	0.70	0.76	0.06	Pass	373775
1633.95	1633.87	-0.08	Pass	0.70	0.70	0.00	Pass	1168225
2233.91	2233.80	-0.11	Pass	0.70	0.75	0.05	Pass	804190

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

m/z Expected	m/z Measured	Delta	Result	FWHM Expected	FWHM Measured	Delta	Result	Abundance
112.99	113.03	0.04	Pass	1.20	1.20	0.00	Pass	327827
302.00	301.99	-0.01	Pass	1.20	1.28	0.08	Pass	411070
601.98	601.97	-0.01	Pass	1.20	1.33	0.13	Pass	1335131
1033.99	1033.97	-0.02	Pass	1.20	1.44	0.24	Pass	869546
1633.95	1633.87	-0.08	Pass	1.20	1.32	0.12	Pass	1957755
2233.91	2233.78	-0.13	Pass	1.20	1.26	0.06	Pass	1524906

**Analyzer: MS2 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	1.08	-0.12	Pass	298882
302.00	302.01	0.01	Pass	1.20	1.26	0.06	Pass	402880
601.98	601.96	-0.02	Pass	1.20	1.35	0.15	Pass	968372
1033.99	1033.88	-0.11	Pass	1.20	1.44	0.24	Pass	781075
1633.95	1633.78	-0.17	Pass	1.20	1.46	0.26	Pass	2727303
2233.91	2233.86	-0.05	Pass	1.20	1.37	0.17	Pass	2436276

**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	2.50	0.00	Pass	405961
302.00	302.01	0.01	Pass	2.50	2.46	-0.04	Pass	525303
601.98	602.00	0.02	Pass	2.50	2.43	-0.07	Pass	2248921
1033.99	1033.95	-0.04	Pass	2.50	2.64	0.14	Pass	1660522
1633.95	1633.69	-0.26	Pass	2.50	2.44	-0.06	Pass	4697016
2233.91	2233.77	-0.14	Pass	2.50	2.33	-0.17	Pass	4400708

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

m/z Expected	m/z Measured	Delta	Result	FWHM Expected	FWHM Measured	Delta	Result	Abundance
112.99	112.96	-0.03	Pass	2.50	2.46	-0.04	Pass	376241
302.00	302.02	0.02	Pass	2.50	2.57	0.07	Pass	565245
601.98	601.95	-0.03	Pass	2.50	2.63	0.13	Pass	1583643
1033.99	1033.86	-0.13	Pass	2.50	2.62	0.12	Pass	1362038
1633.95	1633.82	-0.13	Pass	2.50	2.56	0.06	Pass	5283570
2233.91	2233.73	-0.18	Pass	2.50	2.42	-0.08	Pass	5362018