



Houston Forensic Science Center
Comparative and Analytical Division - Toxicology

GC/MS Maintenance Log

Instrument: GCMS-5

Date	He Tank Pressure	Air Tank Pressure*	H ₂ Water Level*	Auto Tune	Septum Change	Wash Vials Filled	Syringe Washed	Rough Pump Oil Level Checked	Liner Change	Gold Seal Replaced	Column Cut	Output*	Comments	Analyst
			H ₂ Pressure*									Bead Voltage*		
12/21/2020												21/12/2020	Agilent engineer onsite to reimage computer and re-install software.	ew
12/22/2020	50 800	70 1250	yes 80	X	✓	✓	✓	✓	✓	✓	X	13.6 0.913	Agilent replaced inlet, column, splitter, transfer lines	mh
12/23/2020	50 800	70 1200	yes 80	✓	X	✓	✓	✓	X	X	X	13.6 0.913	troubleshooting with Agilent.	mh
12/23/2020 mh														

*For GC/MS-NPD instrument (GCMS-5).

Signature: Melinda Henry

Date Completed: 12/23/2020

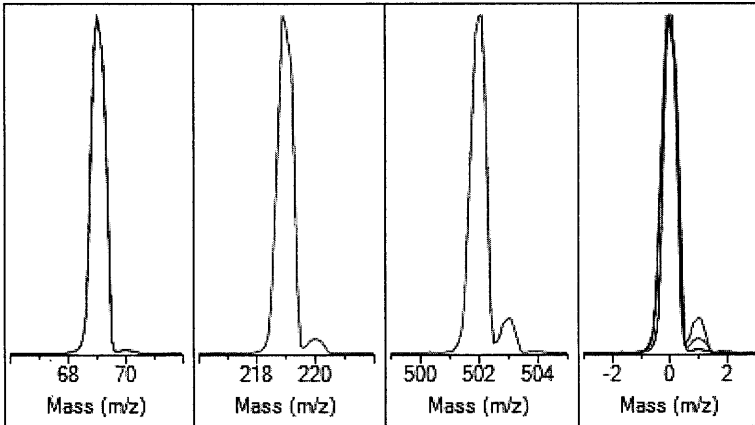
Extraction Source Autotune - 5977

Tune timestamp: 12/23/2020 9:12 AM (UTC-08:00)

GCMS_5 DRS Acquisition

D:\MASSHUNTER\GCMS\1\5977\etune.u

US1609M002

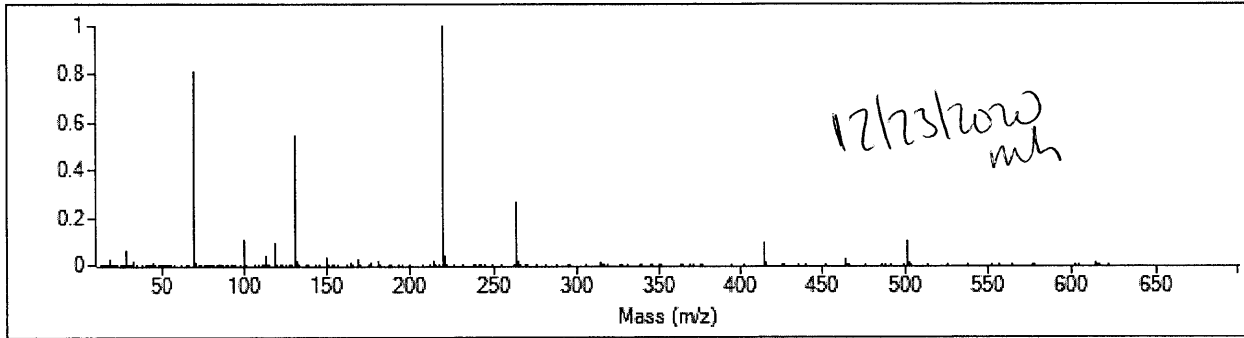


Ion Polarity	Pos	PFTBA	Open
Emission	34.6	Mass Gain	146
Electron Energy	70.0	Mass Offset	-21
Filament	1	Amu Gain	2650
Repeller	4.98	Amu Offset	138.81
Ion Focus	89.8	Width219	0.003
Entrance Lens	15.1	DC Polarity	Neg
Ent Lens Offset	13.57	HED Enable	On
Ion Body	7.25	EM Volts	1325.8
Post Extractor 1	0	Extractor Lens	-0.10
Post Extractor 2	0	Scan Speed	3
JetClean Flow Actual/[Setpoint]	0.00 [0.00]	Averages	3

Actual m/z	Abund	Rel Abund	Pw50
69.00	410,584	100.0%	0.60
218.90	491,346	119.7%	0.63
502.10	51,196	12.5%	0.62

Temperatures and Pressures		
MS Source	230 Turbo Speed	100.0
MS Quad	150 Hi Vac	N/C

Low	High	Step	Speed	Threshold	Peaks	Base	Abundance	Total Ion
10.00	701.00	0.10	3	100	202	219.00	482,560	1,741,047



Target m/z	Actual m/z	Abund	Rel Abund	Iso m/z	Iso Abund	Iso Ratio
69.00	69.00	394,368	100.0%	70.10	4,059	1.0%
219.00	219.00	482,560	122.4%	220.00	18,560	3.8%
502.00	502.00	50,264	12.7%	503.10	4,674	9.3%

Air/Water Check: H2O ~2.9% N2 ~7.8% O2 ~1.6% CO2 ~1.4% N2/H2O ~274.4%

Column(1) Flow: 3.29 Column(2): 0.00 ml/min Interface Temp: 300

Ramp Criteria:

Ion Focus maximum 90 volts using ion 502; Electron Multiplier Gain 374452.538

Repeller maximum 35 volts using ion 219; Gain Factor 3.7445

Mass Gain Values(Scan Speed): 153(3) 158(2) 169(1) 191(0) 278(FS1) 233(FS2) 266(FS3)

TARGET MASS:	50	69	131	219	414	502	1050
Amu Offset		138.8	138.8	138.8	138.8	138.8	138.8
Entrance Lens Offset		13.6	13.6	13.6	13.6	13.6	13.6

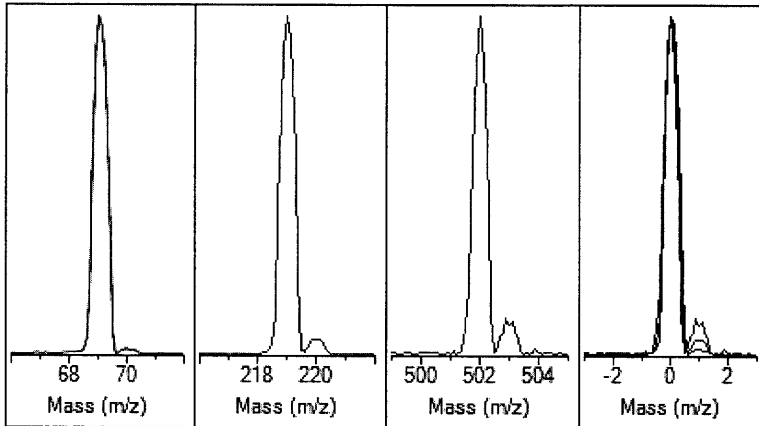
Autotune - 5977

Tune timestamp: 12/23/2020 8:25 AM (UTC-08:00)

GCMS_5 DRS Acquisition

D:\MASSHUNTER\GCMS\1\5977\atune.u

US1609M002

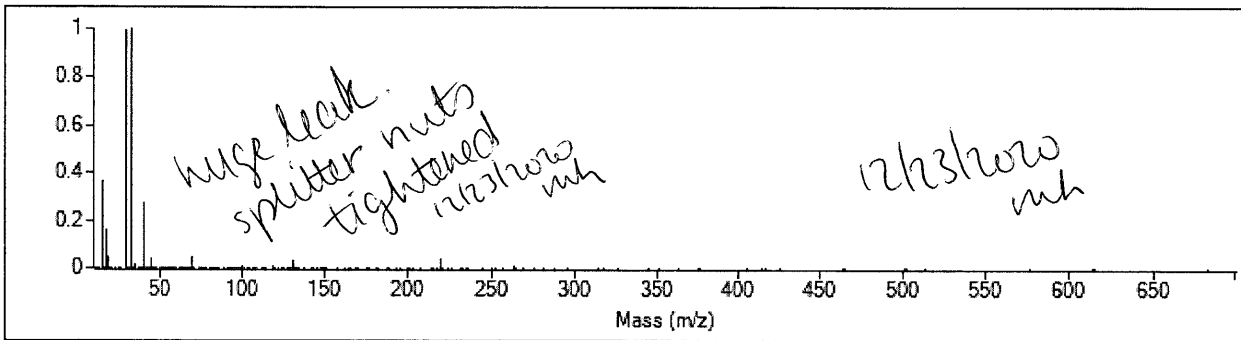


Ion Polarity	Pos	PFTBA	Open
Emission	34.6	Mass Gain	150
Electron Energy	70.0	Mass Offset	-19
Filament	1	Amu Gain	2644
Repeller	10.00	Amu Offset	137.69
Ion Focus	90.3	Width219	-0.026
Entrance Lens	32.8	DC Polarity	Neg
Ent Lens Offset	10.33	HED Enable	On
Ion Body	0.00	EM Volts	1415.7
Post Extractor 1	0	Extractor Lens	0.00
Post Extractor 2	0	Scan Speed	3
JetClean Flow Actual/[Setpoint]	0.00 [0.00]	Averages	3

Actual m/z	Abund	Rel Abund	Pw50
69.00	412,180	100.0%	0.59
219.00	355,741	86.3%	0.60
502.00	40,289	9.8%	0.55

Temperatures and Pressures		
MS Source	230 Turbo Speed	100.0
MS Quad	150 Hi Vac	N/C

Low	High	Step	Speed	Threshold	Peaks	Base	Abundance	Total Ion
10.00	701.00	0.10	3	100	405	28.20	8,388,096	39,598,768



Target m/z	Actual m/z	Abund	Rel Abund	Iso m/z	Iso Abund	Iso Ratio
69.00	69.00	392,128	100.0%	70.10	5,510	1.4%
219.00	219.00	330,304	84.2%	220.00	14,515	4.4%
502.00	502.00	36,688	9.4%	503.00	3,432	9.4%

Air/Water Check: H2O ~101.6% N2 ~2139.1% O2 ~2139.1% CO2 ~83.9% N2/H2O ~2106.5%

Column(1) Flow: 3.29 Column(2): 0.00 ml/min Interface Temp: 300

Ramp Criteria:

Ion Focus maximum 90 volts using ion 502; Electron Multiplier Gain 816475.689

Repeller maximum 35 volts using ion 219; Gain Factor 8.1648

Mass Gain Values(Scan Speed): 156(3) 165(2) 184(1) 215(0) 258(FS1) 328(FS2)

TARGET MASS:	50	69	131	219	414	502	1050
Amu Offset		137.7	137.7	137.7	137.7	137.7	137.7
Entrance Lens Offset		10.3	10.3	10.3	10.3	10.3	10.3