



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*		
8/17/2020	80 11650	75 1000	yes 80	X	✓	X	X	✓	✓	X	✓	*not installed	Agilent replaced inlet, copper tubing, column, liner, o-ring He by instrument	mh
8/18/2020	80 1000	75 950	8/18/2020 yes 80	✓	X	✓	✓	✓	X	X	X	*not installed	installed column straight to MS.	mh
8/20/2020	80 1500	75 900	yes 80	X	X	X	X	✓	X	X	X	16.2 0.800	installed splitter + installed column to splitter, NPD to splitter	mh
8/21/2020	80 1500	75 900	yes 80	✓	X	✓	✓	✓	X	X	X	forgot to record, no case work or validation at this time 2-PID		mh
8/21/2020 mh														

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

Signature: Melina Henry

Date Completed: 8/21/2020

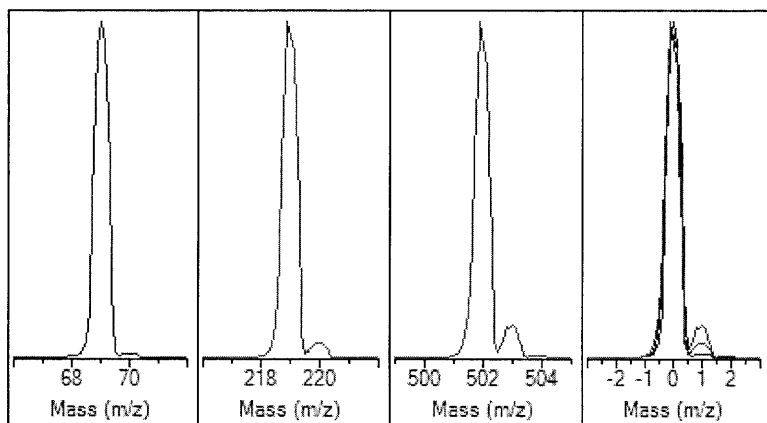
Extraction Source Autotune - 5977

Tune timestamp: 8/18/2020 9:14 AM (UTC-05:00)

GCMS 5

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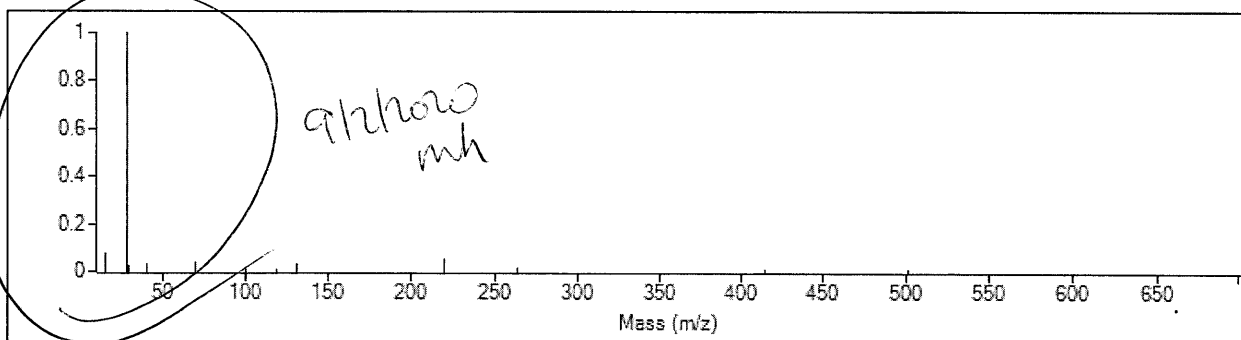
Ion Polarity	Pos	Mass Gain	145
Emission	34.6	Mass Offset	-23
Electron Energy	70.0	Amu Gain	2638
Filament	2	Amu Offset	137.88
Repeller	3.99	Width219	-0.021
Ion Focus	89.8	DC Polarity	Pos
Entrance Lens	20.2	HED Enable	On
Ent Lens Offset	11.16	EM Volts	1036.6
Ion Body	5.25	Extractor Lens	0.00
Post Extractor 1	0	Scan Speed	3
Post Extractor 2	0	Averages	3
PFTBA	Open	Step Size	0.10

Actual m/z	Abund	Rel Abund	Pw50
69.00	367,012	100.0%	0.61
218.90	487,287	132.8%	0.62
501.90	37,942	10.3%	0.58

Temperatures and Pressures

MS Source	300 Turbo Speed	100.0
MS Quad	180 Hi Vac	N/C

Low	High	Step	Speed	Threshold	Peaks	Base	Abundance	Total Ion
10.00	701.00	0.10	3	100	174	28.10	8,388,096	14,197,704



Target m/z	Actual m/z	Abund	Rel Abund	Iso m/z	Iso Abund	Iso Ratio
69.00	69.00	345,664	100.0%	70.00	4,196	1.2%
219.00	219.00	470,976	136.3%	220.00	20,688	4.4%
502.00	502.00	35,312	10.2%	503.00	3,457	9.8%

Air/Water Check: H2O ~3.0% N2 ~2426.7% O2 ~0.5% CO2 ~0.7% N2/H2O ~81493.2%

Column(1) Flow: 1.80 Column(2): 0.00 ml/min Interface Temp: 300

Ramp Criteria:

Ion Focus maximum 90 volts using ion 502; Electron Multiplier Gain 156016.882

Repeller maximum 35 volts using ion 219; Gain Factor 1.5602

Mass Gain Values(Scan Speed): 153(3) 158(2) 167(1) 188(0) 218(FS1) 250(FS2) 251(FS3)

TARGET MASS:	50	69	131	219	414	502	1050
Amu Offset		137.9	137.9	137.9	137.9	137.9	137.9
Entrance Lens Offset		11.2	11.2	11.2	11.2	11.2	11.2

8/18/2020 mh

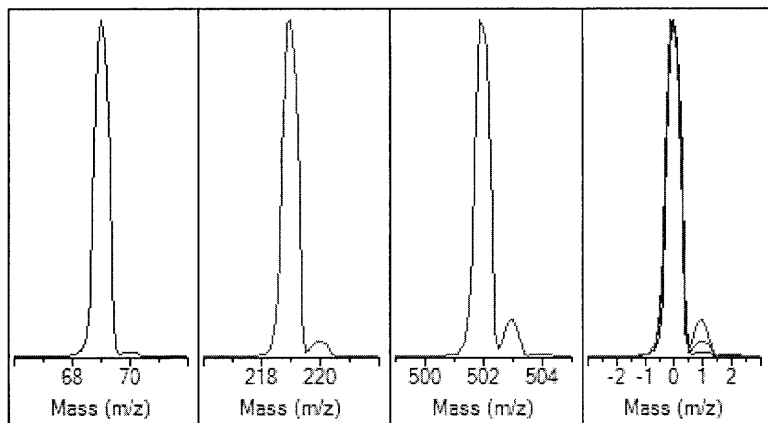
Extraction Source Autotune - 5977

Tune timestamp: 8/21/2020 9:55 AM (UTC-05:00)

GCMS 5

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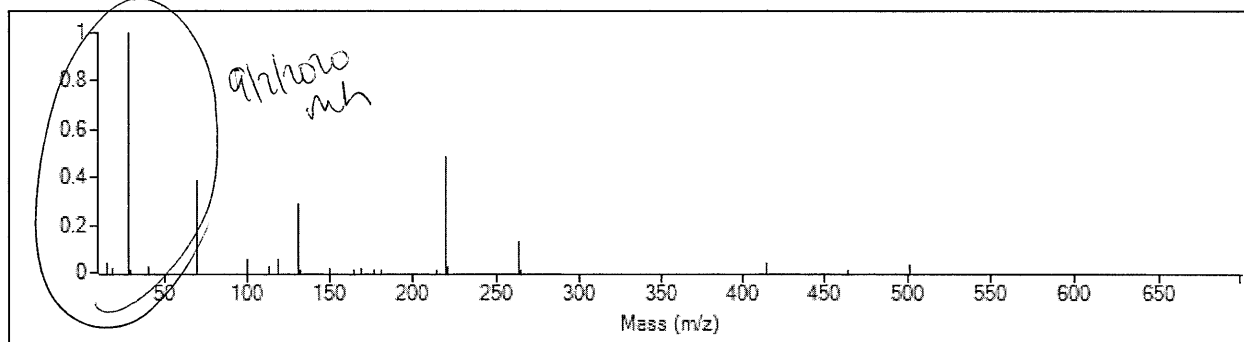
Ion Polarity	Pos	Mass Gain	152
Emission	34.6	Mass Offset	-23
Electron Energy	70.0	Amu Gain	2634
Filament	2	Amu Offset	136.69
Repeller	4.98	Width219	-0.021
Ion Focus	89.8	DC Polarity	Pos
Entrance Lens	17.6	HED Enable	On
Ent Lens Offset	12.36	EM Volts	1066.5
Ion Body	5.00	Extractor Lens	0.10
Post Extractor 1	0	Scan Speed	3
Post Extractor 2	0	Averages	3
PFTBA	Open	Step Size	0.10

Actual m/z	Abund	Rel Abund	Pw50
69.00	402,068	100.0%	0.61
219.00	489,082	121.6%	0.63
501.90	34,534	8.6%	0.60

Temperatures and Pressures

MS Source	300 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	144	28.10	984,320	2,717,667



Target m/z	Actual m/z	Abund	Rel Abund	Iso m/z	Iso Abund	Iso Ratio
69.00	69.00	384,000	100.0%	70.00	3,989	1.0%
219.00	219.00	475,968	124.0%	220.00	20,200	4.2%
502.00	502.00	32,904	8.6%	503.00	3,456	10.5%

Air/Water Check: H2O ~3.4% N2 ~256.3% O2 ~0.6% CO2 ~0.3% N2/H2O ~7579.9%

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 202498.863

Repeller maximum 35 volts using ion 219; Gain Factor 2.0250

Mass Gain Values(Scan Speed): 156(3) 165(2) 176(1) 199(0) 229(FS1) 264(FS2) 249(FS3)

TARGET MASS:	50	69	131	219	414	502	1050
Amu Offset		136.7	136.7	136.7	136.7	136.7	136.7
Entrance Lens Offset		12.4	12.4	12.4	12.4	12.4	12.4

8/21/2020 mh