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* / H_2 Pressure*	Auto Tune	Septum Change	Wash Vials Filled	Syringe Washed	Rough Pump Oil Level Checked	Liner Change	Gold Seal Replaced	Column Cut	Computer Restarted	Output* / Bead Voltage*	Comments	Analyst
4/8/2021	SO / 1200	*	*	✓	X	✓	✓	✓	X	X	X	✓	*		mh
4/9/2021	SO / 1200	*	*	✓	X	✓	✓	✓	X	X	X	X	*	changed column from HP 5 to DB-5. RT locked BSD.M	mh
									4/9/2021 mh						

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

Signature: Melvin Henry **Date Completed:** 4/9/2021

LAB-24
Issued By: Manager - Toxicology
Issue Date: 2020-12-28

* NPD not connected. Air and H_2 lines capped off. NO output or bead voltage. 4/9/2021 mh

Extraction Source Autotune - 5977

Tune timestamp: 4/8/2021 10:53 AM (UTC-05:00)

GCMS_5 DRS Acquistion

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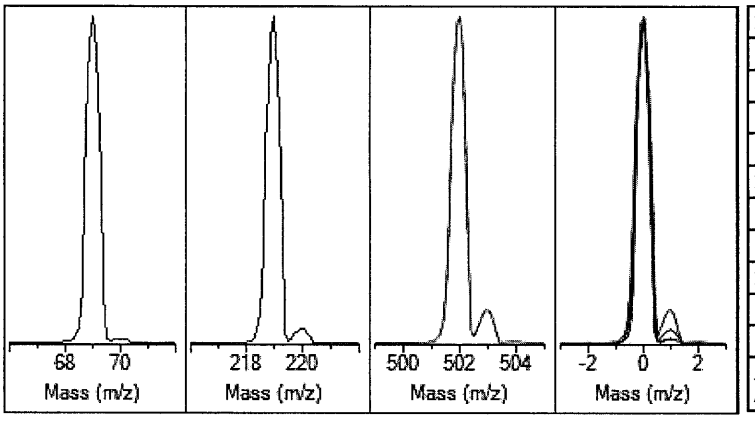
US1609M002

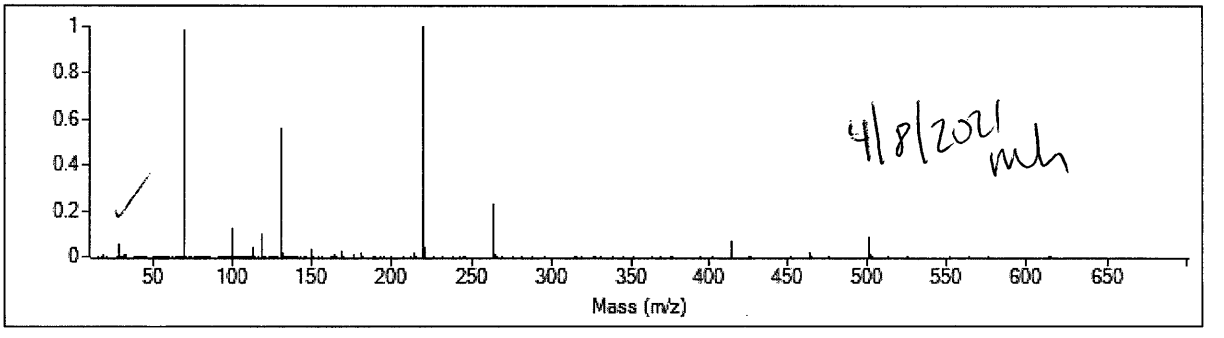


Ion Polarity	Pos	PFTBA	Open
Emission	34.6	Mass Gain	147
Electron Energy	70.0	Mass Offset	-24
Filament	1	Amu Gain	2651
Repeller	0.50	Amu Offset	137.00
Ion Focus	89.8	Width219	-0.034
Entrance Lens	17.6	DC Polarity	Neg
Ent Lens Offset	13.40	HED Enable	On
Ion Body	6.75	EM Volts	1102.0
Post Extractor 1	0	Extractor Lens	-1.00
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	470,962	100.0%	0.60
219.00	490,086	104.1%	0.59
502.00	40,007	8.5%	0.59

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	175	219.00	461,440	1,698,812



Target m/z	Actual m/z	Abund	Rel Abund	Iso m/z	Iso Abund	Iso Ratio
69.00	69.00	454,912	100.0%	70.00	5,871	1.3%
219.00	219.00	461,440	101.4%	220.00	20,408	4.4%
502.00	502.00	38,648	8.5%	503.00	3,814	9.9%

Air/Water Check: H20 ~0.8% N2 ~5.5% O2 ~0.6% CO2 ~0.4% N2/H20 ~726.3%

Column(1) Flow: 1.65 Column(2): 0.00 ml/min Interface Temp: 300

Ramp Criteria:

Ion Focus maximum 90 volts using ion 502; Electron Multiplier Gain 50862.707

Repeller maximum 35 volts using ion 219; Gain Factor 0.5086

Mass Gain Values(Scan Speed): 155(3) 154(2) 171(1) 194(0) 273(FS1) 272(FS2) 272(FS3)

TARGET MASS:	50	69	131	219	414	502	1050
Amu Offset	137.0	137.0	137.0	137.0	137.0	137.0	137.0
Entrance Lens Offset	13.4	13.4	13.4	13.4	13.4	13.4	13.4

Report Created: 4/8/2021 10:54 AM (UTC-05:00)

Extraction Source Autotune - 5977

Tune timestamp: 4/9/2021 3:25 PM (UTC-05:00)

GCMS_5 DRS Acquistion

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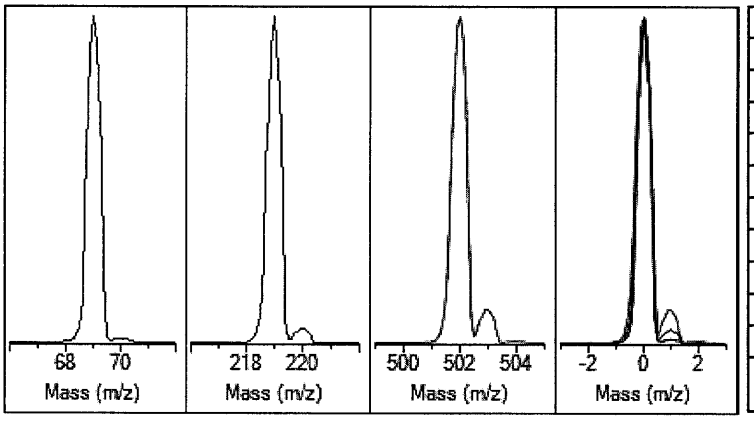
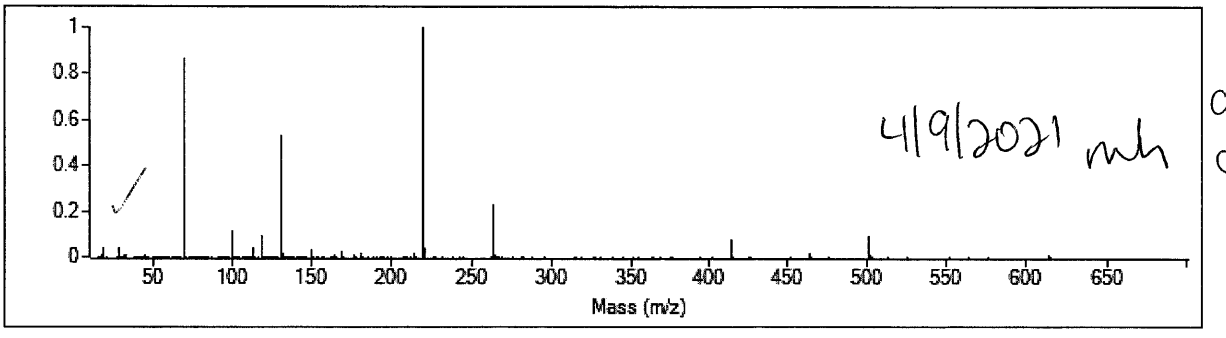


Ion Polarity	Pos	PFTBA	Open
Emission	34.6	Mass Gain	149
Electron Energy	70.0	Mass Offset	-23
Filament	1	Amu Gain	2644
Repeller	0.50	Amu Offset	137.44
Ion Focus	89.8	Width219	-0.034
Entrance Lens	15.1	DC Polarity	Neg
Ent Lens Offset	13.57	HED Enable	On
Ion Body	7.25	EM Volts	1118.1
Post Extractor 1	0	Extractor Lens	-1.30
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	472,046	100.0%	0.60
219.00	559,653	118.6%	0.60
502.00	49,461	10.5%	0.61

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	192	219.00	521,920	1,852,852



after column change 4/9/2021 mh

Target m/z	Actual m/z	Abund	Rel Abund	Iso m/z	Iso Abund	Iso Ratio
69.00	69.00	452,032	100.0%	70.00	5,510	1.2%
219.00	219.00	521,920	115.5%	220.00	22,736	4.4%
502.00	502.00	49,024	10.8%	503.10	4,766	9.7%

Air/Water Check: H20 ~5.2% N2 ~4.8% O2 ~0.5% CO2 ~0.8% N2/H20 ~93.0%

Column(1) Flow: 1.65 Column(2): 0.00 ml/min Interface Temp: 300

Ramp Criteria:

Ion Focus maximum 90 volts using ion 502; Electron Multiplier Gain 54001.730

Repeller maximum 35 volts using Ion 219; Gain Factor 0.5400

Mass Gain Values(Scan Speed): 156(3) 162(2) 171(1) 197(0) 284(FS1) 239(FS2) 250(FS3)

TARGET MASS:	50	69	131	219	414	502	1050
Amu Offset	137.4	137.4	137.4	137.4	137.4	137.4	137.4
Entrance Lens Offset	13.6	13.6	13.6	13.6	13.6	13.6	13.6

Report Created: 4/9/2021 3:26 PM (UTC-05:00)