

# Houston Forensic Science Center

Comparative and Analytical Division - Toxicology

## Drug GC/LC-MS Targeted Batch Review Checklist

Batch Name: CAR_20211019SS_AAJ		Analyst Review	Technical Review
<b>Worklist</b>	Item tested written for each case	N/A	N/A
<b>Batch Information</b>	Verify batch dates, instrument, analyst, pipette(s), and LC column	✓	✓
	Verify lot numbers and expiration dates of internal standard, calibrators, controls, negative matrices, reagents, solvents, and SPE columns	✓	✓
	Verify preparations of internal standard, calibrators, and controls	✓	✓
<b>Performance Verification</b>	Verify tune is acceptable and (GC) corresponds with method	✓	✓
	Verify system suitability is acceptable (abundance and chromatography)	✓	✓
<b>Method</b>	Verify correct assay method is included	✓	✓
	All pages included	✓	✓
<b>Sequence</b>	Reviewer verified, initialed, and dated sequence	✓	✓
	Verify appropriate controls were analyzed at least after every 10 case samples	N/A	N/A
	Verify appropriate calibrators and controls were analyzed	N/A	N/A
	Verify all cases were processed and have data	✓	✓
<b>Batch QC Data Worksheet</b>	Verify ion ratios and concentrations against chromatograms, R <sup>2</sup> value, and retention time	N/A	N/A
	Verify calibrators and controls are acceptable for reporting analytes	N/A	N/A
<b>Data</b>	Verify calibration curves are acceptable for reporting analyte(s)	N/A	N/A
	Verify calibration curve values are within range for reporting analyte(s)	N/A	N/A
	Verify calibration curve ion ratios are acceptable for reporting analyte(s)	N/A	N/A
	Verify calibration curve against chromatograms for last calibration update	N/A	N/A
	Verify control values are within range for reporting analyte(s)	N/A	N/A
	Verify chromatography is acceptable for reporting analyte(s)	✓	✓
	Verify RT or RRT are acceptable for reporting analyte(s)	✓	✓
	Verify concentration for reporting analyte(s) is within quantification range	N/A	N/A
	Verify ion ratios are acceptable for reporting analyte(s)	✓	✓
Verify batch name is present on all batch records		✓	✓
Verify QCs were added to QC log		N/A	N/A
All comments and/or strikethroughs, if any, initialed		✓	✓
All printed pages initialed/signed		✓	✓

### Analyst Review

Signature: Ashley Ann Johnson, M.S. Digitally signed by Ashley Ann Johnson, M.S. Date: 2021.10.19 15:29:48 -05'00'

Date: 10/19/2021

Location: On-site

### Technical Review

Signature: Melissa Henry Melissa Henry, onHouston Forensic Science Center, onToxicology, email=melhery@houstonforensicscience.org, c=US 2021.10.21 15:14:53 -05'00'

Date: 10/21/2021

Location: off-site



Houston Forensic Science Center  
 Comparative and Analytical Division - Toxicology  
**Batch QC Data - CAR Blood**

Batch Name: CAR\_20211019SS\_AAJ

**Analyte:** Meprobamate

Calibrators	Concentration (µg/mL)	% Difference	Retention Time	IS	d0	Ion Ratios	89.0 (IS)	121.2 (IS)	83.0 (d0)	114.0 (d0)	Quality Controls	Concentration (µg/mL)	Acceptable Range	
0.5	0.00	-100.0		0.000	0.000		0.0	0.0	0.0	0.0	0.0	Negative	0.00	N/A
1.0	0.00	-100.0		0.000	0.000		0.0	0.0	0.0	0.0	0.0	1.2	0.00	1.0 - 1.4
3.0	0.00	-100.0		0.000	0.000		0.0	0.0	0.0	0.0	0.0	24	0.00	19.2 - 28.8
6.0	0.00	-100.0		0.000	0.000		0.0	0.0	0.0	0.0	0.0	16	0.00	12.8 - 19.2
10	0.00	-100.0		0.000	0.000		0.0	0.0	0.0	0.0	0.0	16	0.00	12.8 - 19.2
20	0.00	-100.0		0.000	0.000		0.0	0.0	0.0	0.0	0.0	16	0.00	12.8 - 19.2
30	0.00	-100.0		0.000	0.000		0.0	0.0	0.0	0.0	0.0	16	0.00	12.8 - 19.2
r <sup>2</sup> =			<b>Mean</b>	<b>0.000</b>	<b>0.000</b>	<b>Mean</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	24	0.00	19.2 - 28.8	
Average IS Response			(-)2%	0.000	0.000	(-)20%	0.0	0.0	0.0	0.0	1.2	0.00	1.0 - 1.4	
			(+)2%	0.000	0.000	(+)20%	0.0	0.0	0.0	0.0				

**Analyte:** Carisoprodol

Calibrators	Concentration (µg/mL)	% Difference	Retention Time	IS	d0	Ion Ratios	252.2 (IS)	191.2 (IS)	245.0 (d0)	184.0 (d0)	Quality Controls	Concentration (µg/mL)	Acceptable Range	
0.5	0.00	-100.0		0.000	0.000		0.0	0.0	0.0	0.0	0.0	Negative	0.00	N/A
1.0	0.00	-100.0		0.000	0.000		0.0	0.0	0.0	0.0	0.0	1.2	0.00	1.0 - 1.4
3.0	0.00	-100.0		0.000	0.000		0.0	0.0	0.0	0.0	0.0	24	0.00	19.2 - 28.8
6.0	0.00	-100.0		0.000	0.000		0.0	0.0	0.0	0.0	0.0	16	0.00	12.8 - 19.2
10	0.00	-100.0		0.000	0.000		0.0	0.0	0.0	0.0	0.0	16	0.00	12.8 - 19.2
20	0.00	-100.0		0.000	0.000		0.0	0.0	0.0	0.0	0.0	16	0.00	12.8 - 19.2
30	0.00	-100.0		0.000	0.000		0.0	0.0	0.0	0.0	0.0	16	0.00	12.8 - 19.2
r <sup>2</sup> =			<b>Mean</b>	<b>0.000</b>	<b>0.000</b>	<b>Mean</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	24	0.00	19.2 - 28.8	
Average IS Response			(-)2%	0.000	0.000	(-)20%	0.0	0.0	0.0	0.0	1.2	0.00	1.0 - 1.4	
			(+)2%	0.000	0.000	(+)20%	0.0	0.0	0.0	0.0				

**Comments:**

Batch run solely to verify new lot of internal standard: 211014C-IS-10 (exp. 10/14/2022). No calibration was performed, and only analyte responses were used to evaluate acceptability. 211014C-IS-10 is acceptable for use in casework. - AAJ 10/19/2021

Ashley Ann  
 Johnson, M.S.

Digitally signed by Ashley Ann  
 Johnson, M.S.  
 Date: 2021.10.19 15:27:26  
 -05'00'



**Houston Forensic Science Center**  
Comparative and Analytical Division - Toxicology

**Batch Information - CAR**

Batch File Name: CAR-20211019SS-AAJ Analyst: Ashley Ann Johnson Instrument: GCMS-3

Negative Matrix:  BLOOD  URINE Lot(s): n/a Exp. n/a

	Lot:	Expiration:	Lot:	Expiration:
Calibrators:	<u>210611C-C-0101</u>	<u>06/11/2022</u>	<u>n/a</u>	<u>n/a</u>
	<u>n/a</u>	<u>n/a</u>	<u>↓</u>	<u>↓</u>
Controls:				

Internal Standard: 210805C-IS-10 08/05/2022

Pipette(s): 8937

	Lot:	Expiration/Retest:
Reagents: 1 M ammonium hydroxide	<u>n/a</u>	<u>n/a</u>
Ethyl acetate	<u>0000786970</u>	<u>RT 06/27/2020</u>

Comments:

Re-weighing IS lot 211014C-IS-10 exp. 10/19/2022. 0000786970

*AAJ*

Sequence Name: D:\MassHunter\GCMS\1\sequence\CAR\_20211019SS\_AAJ.sequence.xml

Comment:

Operator:

Data Path: D:\MassHunter\Data\System Suitability\CAR\_20211019SS\_AAJ\

Instrument Control Pre-Seq Cmd:

Data Analysis Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:

Data Analysis Post-Seq Cmd:

Method Sections To Run

Full Method

Reprocessing Only

Sequence Barcode Options

On Mismatch, Inject Anyway

On Mismatch, Don't Inject

Barcode Disabled

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Line	Type	ALS	File	Method	Sample Name/Misc Info
1)	Specimen	100	01_MeOH	CAR	Methanol
2)	Specimen	97	SS Current		
	Datafile		02_SS_Current		
	Method		CAR		
3)	Specimen	98	SS New		
	Datafile		03_SS_New		
	Method		CAR		
4)	Specimen	99	04_EtAc	CAR	Ethyl Acetate

*Sequence Verified - GMR  
10/19/21*

*raj*

## Single Quadrupole Acquisition Method - MS Parameters Report

<b>Method file</b>	D:\MassHunter\GCMS\1\methods\CAR.M
<b>Tune file</b>	ATUNE.U
<b>Ion source</b>	EI
<b>Source temperature (°C)</b>	230
<b>Quad temperature (°C)</b>	150
<b>Fixed Electron energy (eV)</b>	70.3
<b>Acquisition Type</b>	SIM
<b>Stop time (min)</b>	10.00
<b>Solvent delay (min)</b>	3.50
<b>Trace Ion Detection</b>	False
<b>Gain Factor</b>	1
<b>EM Saver</b>	False
<b>EM Saver Limit</b>	N/A

### Scan Time Segments

Time	Start Mass	End Mass	Threshold	Scan Speed
------	------------	----------	-----------	------------

### Timed Events

Time	Type of Event	Parameter
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### Real-Time Plots

Type of Plot	Label	Low Mass	High Mass
Total Ion	N/A	N/A	N/A
Spectrum	N/A	N/A	N/A

### Self-Cleaning Ion Source Parameters

Mode	No Cleaning
------	-------------

# Single Quadrupole Acquisition Method - MS Parameters Report

## SIM Time Segment 1

<b>Group Name</b>	CarMep		
<b>Start Time</b>	3.50		
<b>Resolution</b>	Low		
<b>Detector EMV Override</b>			
<b>Ion mass-to-charge</b>	<b>Dwell time (ms)</b>	<b>Plot This Ion?</b>	<b>Label</b>
83	10	NO	Meprobamate
89	10	NO	Meprobamate-D7
114	10	NO	Meprobamate
121.2	10	NO	Meprobamate-D7
144	10	YES	Meprobamate
151.1	10	YES	Meprobamate-D7
158	10	YES	Carisoprodol
165.2	10	NO	Carisoprodol-D7
184	10	NO	Carisoprodol
191.2	10	NO	Carisoprodol-D7
245	10	NO	Carisoprodol
252.2	10	NO	Carisoprodol-D7

D:\MassHunter\GCMS\1\methods\CAR.M  
 Tue Oct 19 09:42:35 2021

Control Information

-----  
 Sample Inlet : GC  
 Injection Source : GC ALS  
 Injection Location: Front  
 Mass Spectrometer : Enabled

No Sample Prep method has been assigned to this method.

GC  
 GC Summary  
 Run Time 9.8 min  
 Post Run Time 0 min

Oven  
 Temperature  
 Setpoint On  
 (Initial) 150 °C  
 Hold Time 1 min  
 Post Run 140 °C  
 Program  
 #1 Rate 50 °C/min  
 #1 Value 210 °C  
 #1 Hold Time 2 min  
 #2 Rate 25 °C/min  
 #2 Value 300 °C  
 #2 Hold Time 2 min

Equilibration Time 0.5 min  
 Max Temperature 325 °C  
 Maximum Temperature Override Disabled  
 Slow Fan Disabled

ALS  
 Front Injector  
 Syringe Size 10 µL  
 Injection Volume 1 µL  
 Injection Repetitions 1  
 Injection Delay 0 sec  
 Solvent A Washes (PreInj) 3  
 Solvent A Washes (PostInj) 6  
 Solvent A Volume 8 µL  
 Solvent B Washes (PreInj) 3  
 Solvent B Washes (PostInj) 6  
 Solvent B Volume 8 µL  
 Sample Washes 0  
 Sample Wash Volume 8 µL  
 Sample Pumps 2  
 Dwell Time (PreInj) 0 min  
 Dwell Time (PostInj) 0 min  
 Solvent Wash Draw Speed 300 µL/min  
 Solvent Wash Dispense Speed 6000 µL/min  
 Sample Wash Draw Speed 300 µL/min  
 Sample Wash Dispense Speed 6000 µL/min

Injection Dispense Speed	6000 µL/min
Viscosity Delay	7 sec
Sample Depth	Disabled
Tower Fan	On
Solvent Wash Mode	A-A3, B-B3
Sample Overlap Mode	Sample overlap is not enabled
ALS Errors	Pause for user interaction
Front SS Inlet He Mode	Split
Heater	On 250 °C
Pressure	On 13.332 psi
Total Flow	On 14 mL/min
Septum Purge Flow	On 3 mL/min
Gas Saver	On 20 After 2 min mL/min
Split Ratio	10 :1
Split Flow	10 mL/min
Liner	A Liner has not been selected.
Thermal Aux 2 (MSD Transfer Line) Temperature Setpoint (Initial)	On 280 °C
Column	
Column #1 Flow	
Setpoint (Initial)	On 1 mL/min
Hold Time	16 min
Post Run	0.57353 mL/min
Program	
#1 Rate	99 mL/min per min
#1 Value	2 mL/min
#1 Hold Time	0 min
Column Information	Agilent 122-5532E
DB-5ms	
Temperature Range	-60 °C-325 °C (325 °C)
Dimensions	30 m x 250 µm x 0.25 µm
In	Front SS Inlet He
Out	MSD
(Initial)	150 °C
Pressure	13.332 psi
Flow	1 mL/min
Average Velocity	38.051 cm/sec
Holdup Time	1.314 min
Control Mode	Ramped Flow
Column Outlet Pressure	0 psi
Signals	
Signal #1: Test Plot	
Description	Test Plot
Save	Off
Data Rate	50 Hz
Signal #2:	
Description	None



Signal #3:  
Description None

Signal #4:  
Description None

TUNE PARAMETERS for SN: US92013456  
-----

Trace Ion Detection is OFF.

34.610 : EMISSION  
70.347 : ENERGY  
30.251 : REPELLER  
90.157 : IONFOCUS  
19.000 : ENTRANCE\_LENS  
1376.471 : EMVOLTS  
1376.471 : Actual EMV  
0.22 : GAIN FACTOR  
1592.000 : AMUGAIN  
119.938 : AMUOFFSET  
1.000 : FILAMENT  
0.000 : DCPOLARITY  
20.078 : ENTLENSOFFSET  
-847.000 : MASSGAIN  
-38.000 : MASSOFFSET

END OF TUNE PARAMETERS  
-----

END OF INSTRUMENT CONTROL PARAMETERS  
-----

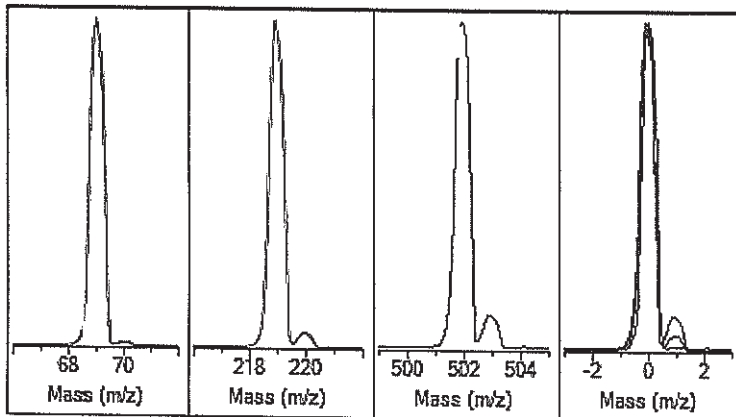
# Autotune - 5975

Tune timestamp: 10/19/2021 9:34 AM (JTC-05:00)

GCMS-3

D:\MASSHUNTER\GCMS\1\5975\ATUNE.U

US92013456

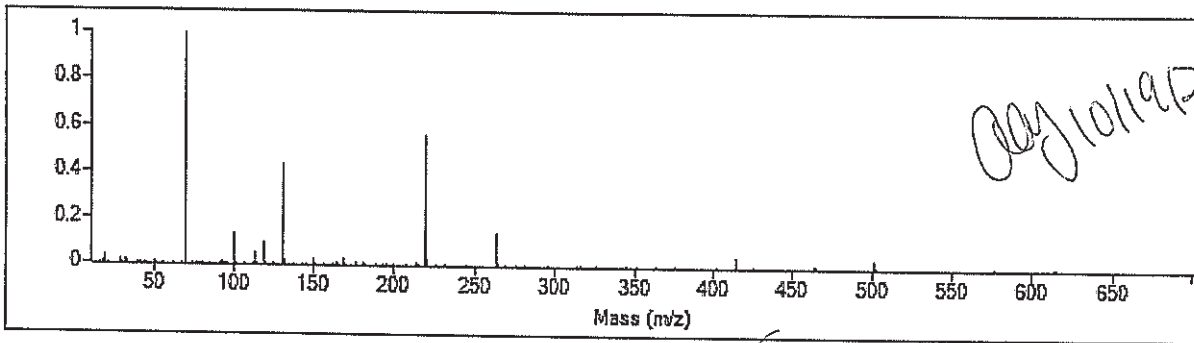


Ion Polarity	Pos	PFTBA	Open
Emission	34.6	Mass Gain	-847
Electron Energy	70.3	Mass Offset	-38
Filament	1	Amu Gain	1592
Repeller	30.25	Amu Offset	119.94
Ion Focus	90.2	Width219	-0.014
Entrance Lens	19.0	DC Polarity	Pos
Ent Lens Offset	20.08	HED Enable	On
		EM Volts	1376
		Scan Speed	3
JetClean Flow Actual/[Setpoint]	0.00 [0.00]	Averages	3

Actual m/z	Abund	Rel Abund	Pw50
69.00	378,032	100.0%	0.60
218.90	213,571	56.5%	0.60
501.90	13,253	3.5%	0.60

Temperatures and Pressures		
MS Source	230 Foreline	53.508
MS Quad	150 Hi Vac	Off

Low	High	Step	Speed	Threshold	Peaks	Base	Abundance	Total Ion
10.00	701.00	0.10	3	100	99	69.00	355,072	1,003,590



Target m/z	Actual m/z	Abund	Rel Abund	Iso m/z	Iso Abund	Iso Ratio
69.00	69.00	355,072	100.0%	70.00	3,917	1.1%
219.00	219.00	199,104	56.1%	220.00	8,580	4.3%
502.00	502.00	12,472	3.5%	503.00	1,265	10.1%

Air/Water Check: H2O ~3.4% N2 ~2.1% O2 ~0.8% CO2 ~0.1% N2/H2O ~60.9%

Column(1) Flow: 1.00 Column(2): 0.00 ml/min Interface Temp: 280

**Ramp Criteria:**

Ion Focus maximum 90 volts using ion 502; Electron Multiplier Gain 21538.678

Repeller maximum 35 volts using ion 219; Gain Factor 0.2154

Mass Gain Values(Scan Speed): -834(3) -828(2) -819(1) -795(0) -709(FS1) -717(FS2)

TARGET MASS:	50	69	131	219	414	502	1050
Amu Offset		119.9	119.9	119.9	119.9	119.9	119.9
Entrance Lens Offset		20.1	20.1	20.1	20.1	20.1	20.1

Report Created: 10/19/2021 9:34 AM (U-C-05:00)

*Handwritten signature: CAR-20211019SS-AAJ*

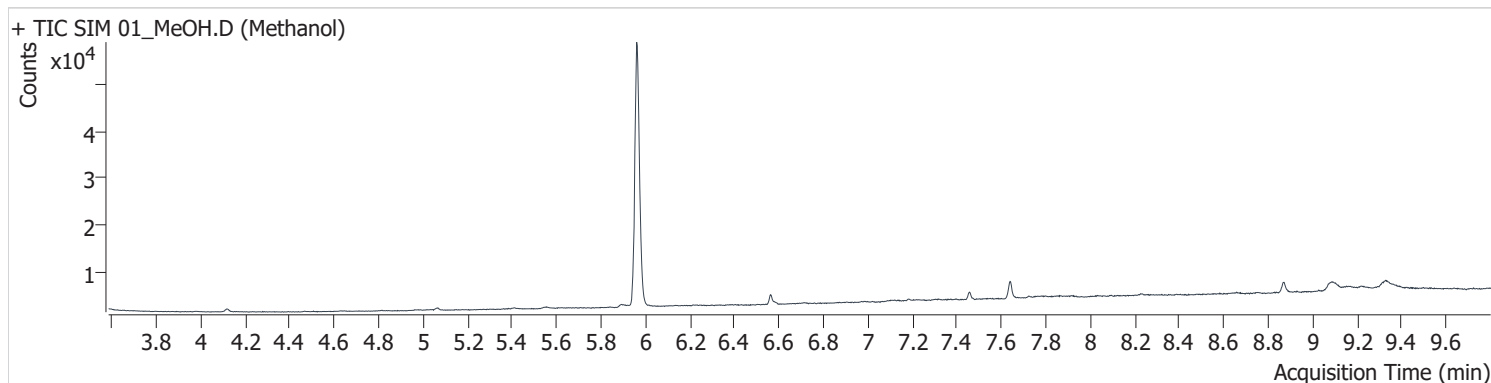
*Handwritten signature: Coy*

# HFSC Toxicology Analysis Report

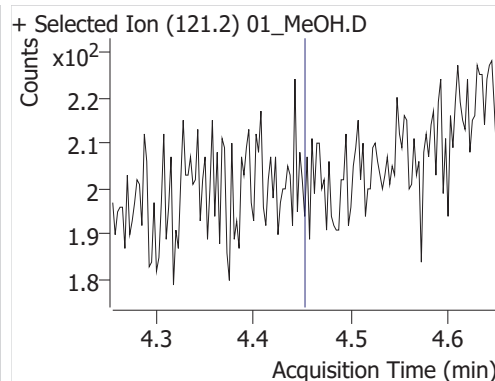
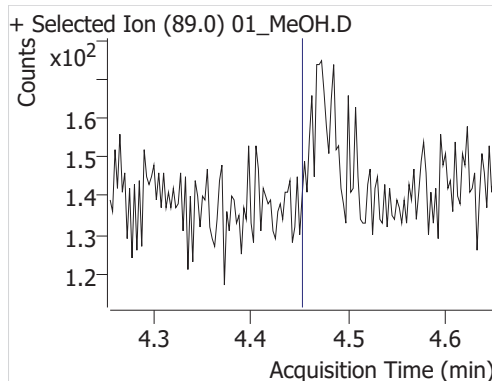
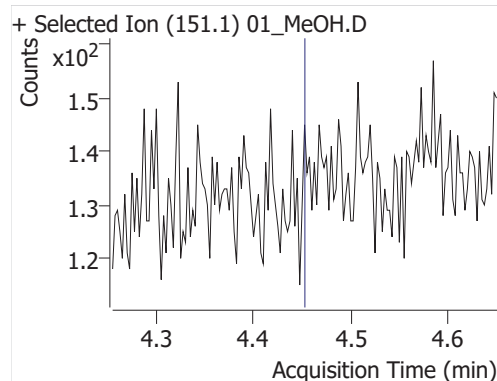
```

Data File       : D:\MassHunter\Data\System Suitability\CAR_20211019SS_AAJ\01_MeOH.D
Batch results  : D:\MassHunter\Data\System Suitability\CAR_20211019SS_AAJ\QuantResults\CAR_20211019SS_AAJ
Acq. Method   : CAR
Acq. Date-Time : 10/19/2021 9:48:22 AM
Sample Name:   : Methanol
Vial Location  : 100
Instrument     : GCMS-3
Quant Batch Version : Batch was analyzed in 10.2, Report was generated in 10.2
Last Calib Update : 2/5/2021 8:57:27 AM
    
```

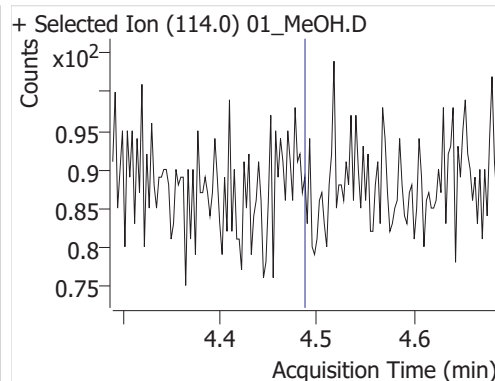
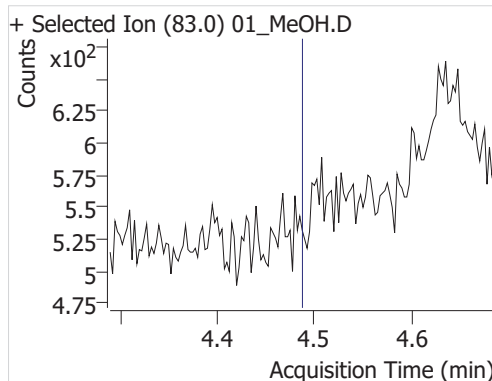
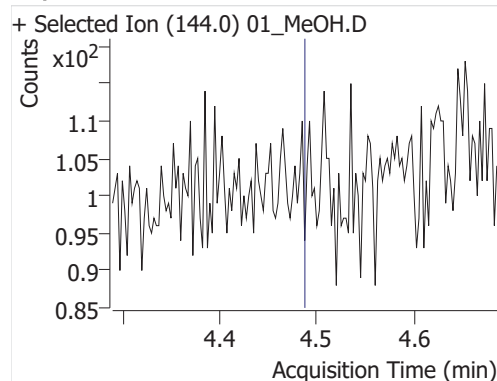
Compound	Signal	RT	Limits	Response	QRatio	Limits	Final Conc
Meprobamate-D7	151.1		4.364 - 4.542				
	89.0					221.5 - 332.3	
	121.2					74.2 - 111.4	
Meprobamate	144.0		4.398 - 4.578				ND
	83.0					309.2 - 463.8	
	114.0					79.5 - 119.3	



## Meprobamate-D7



## Meprobamate

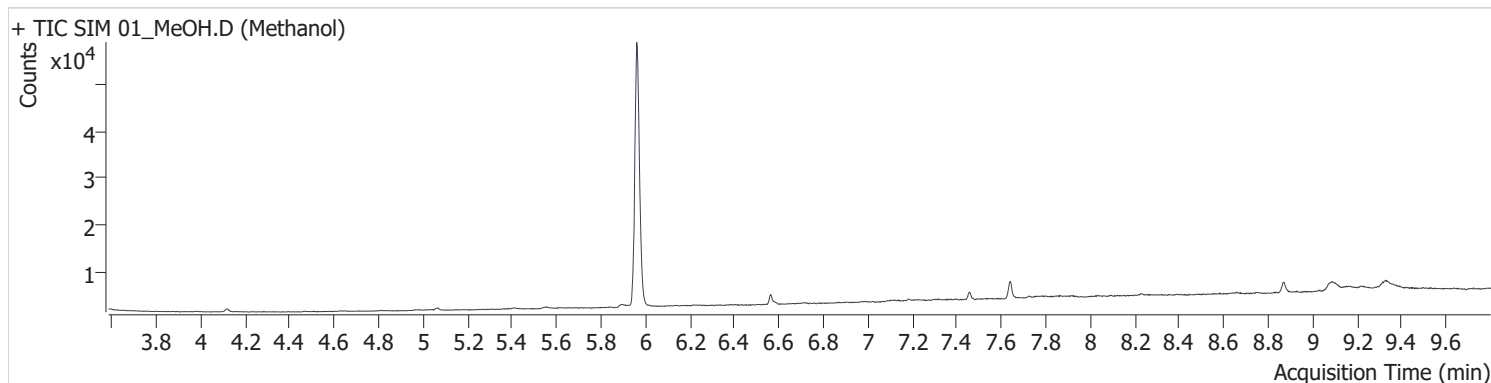


# HFSC Toxicology Analysis Report

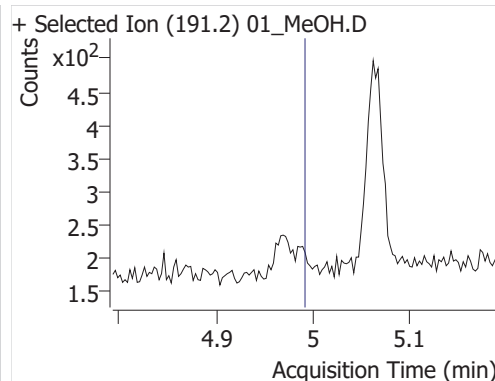
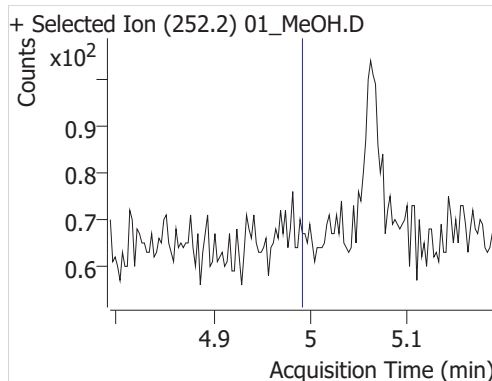
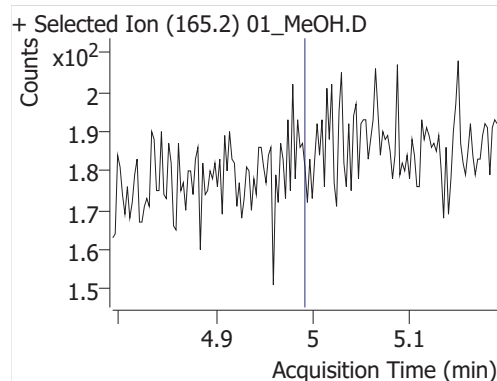
```

Data File       : D:\MassHunter\Data\System Suitability\CAR_20211019SS_AAJ\01_MeOH.D
Batch results  : D:\MassHunter\Data\System Suitability\CAR_20211019SS_AAJ\QuantResults\CAR_20211019SS_AAJ
Acq. Method   : CAR
Acq. Date-Time : 10/19/2021 9:48:22 AM
Sample Name:   : Methanol
Vial Location  : 100
Instrument     : GCMS-3
Quant Batch Version : Batch was analyzed in 10.2, Report was generated in 10.2
Last Calib Update : 2/5/2021 8:57:27 AM
    
```

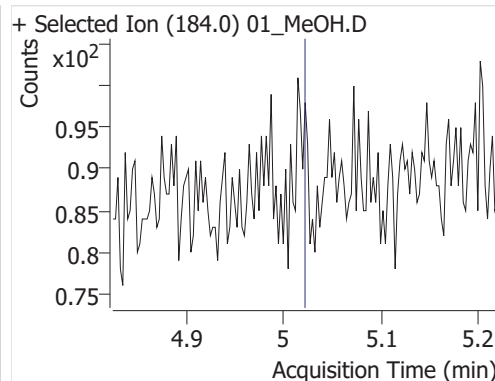
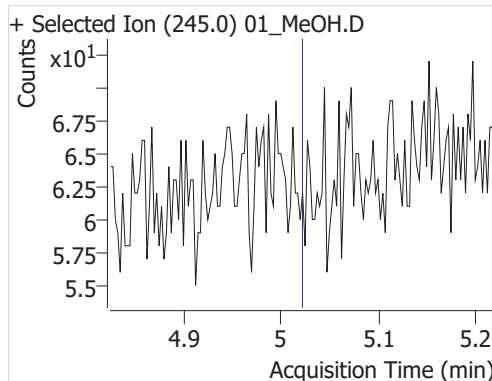
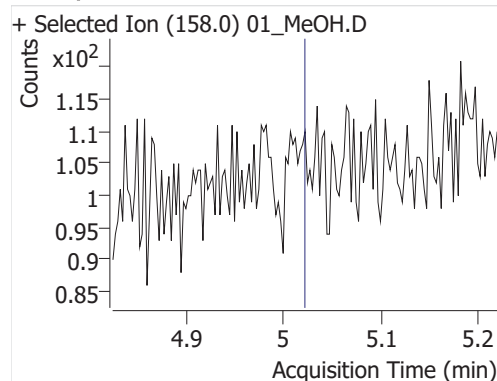
Compound	Signal	RT	Limits	Response	QRatio	Limits	Final Conc
Carisoprodol-D7	165.2		4.892 - 5.092				
	252.2					14.9 - 22.3	
	191.2					21.4 - 32.2	
Carisoprodol	158.0		4.922 - 5.122				ND
	245.0					15.7 - 23.5	
	184.0					17.8 - 26.8	



### Carisoprodol-D7



### Carisoprodol



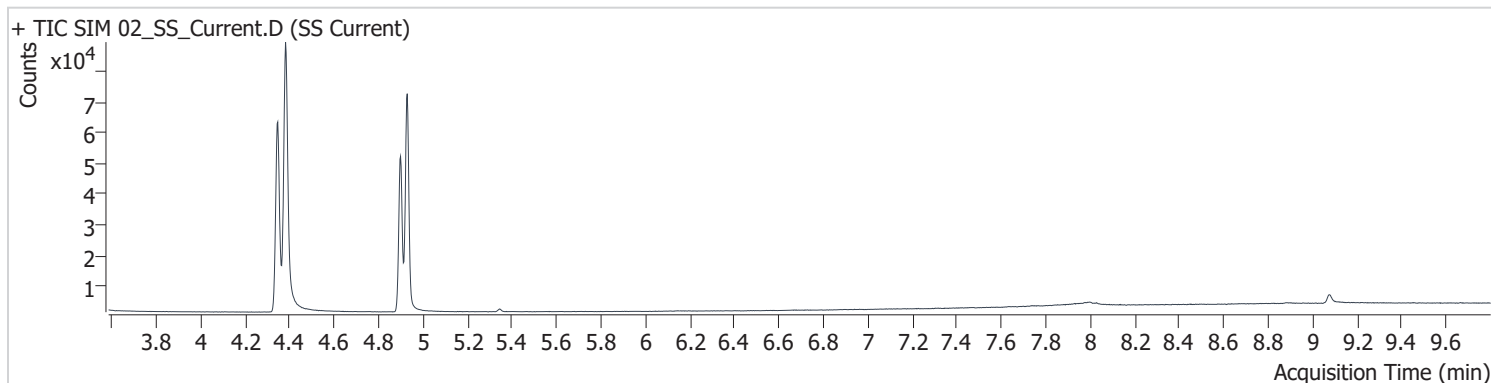
# HFSC Toxicology Analysis Report

```

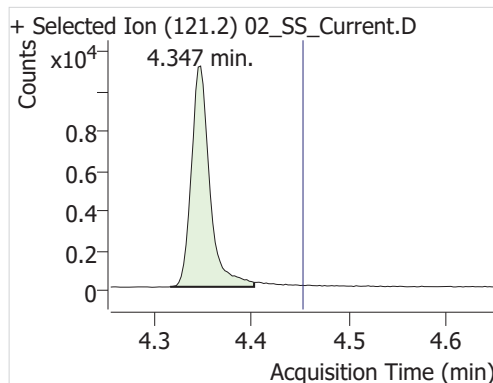
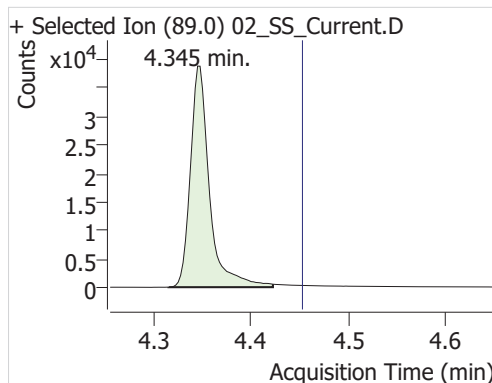
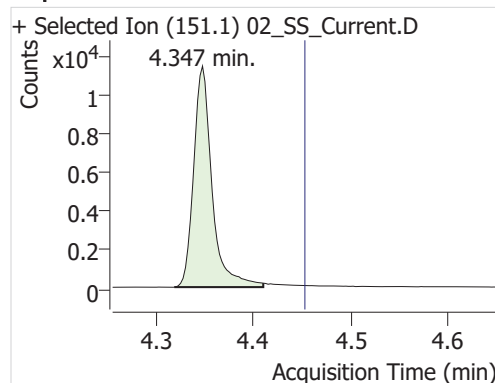
Data File       : D:\MassHunter\Data\System Suitability\CAR_20211019SS_AAJ\02_SS_Current.D
Batch results   : D:\MassHunter\Data\System Suitability\CAR_20211019SS_AAJ\QuantResults\CAR_20211019SS_AAJ
Acq. Method    : CAR
Acq. Date-Time : 10/19/2021 10:01:56 AM
Sample Name:    : SS Current
Vial Location   : 97
Instrument      : GCMS-3
Quant Batch Version : Batch was analyzed in 10.2, Report was generated in 10.2
Last Calib Update : 2/5/2021 8:57:27 AM
    
```

Acceptable meprobamate range for new IS recovery: 10525 to 19546 - AAJ 10/19/2021

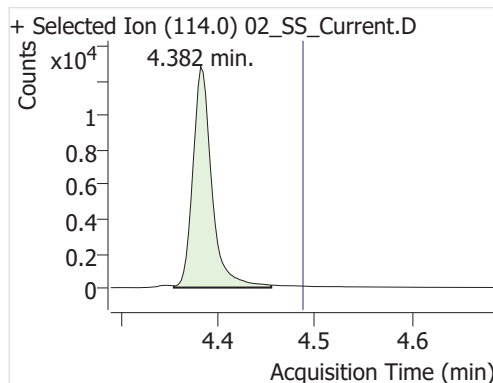
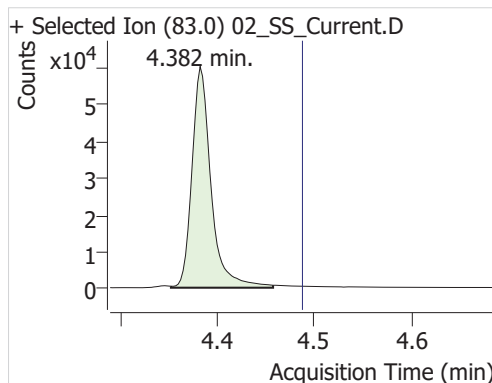
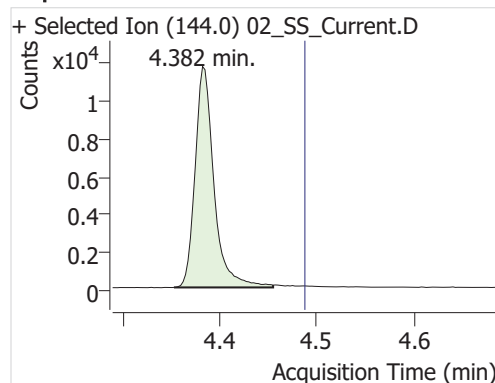
Compound	Signal	RT	Limits	Response	QRatio	Limits	Final Conc
Meprobamate-D7	151.1	4.347 *	4.364 - 4.542	15035			
	89.0			53125	353.4 *	221.5 - 332.3	
	121.2			14715	97.9	74.2 - 111.4	
Meprobamate	144.0	4.382 *	4.398 - 4.578	15968			3.79
	83.0			82155	514.5 *	309.2 - 463.8	
	114.0			17329	108.5	79.5 - 119.3	



### Meprobamate-D7



### Meprobamate



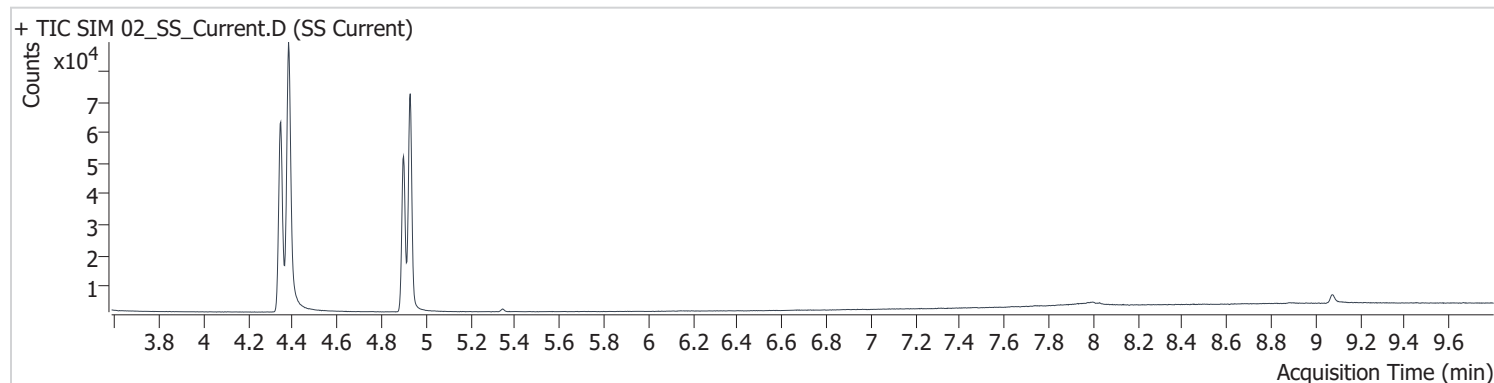
# HFSC Toxicology Analysis Report

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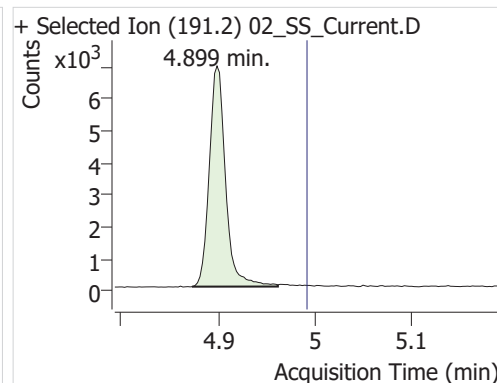
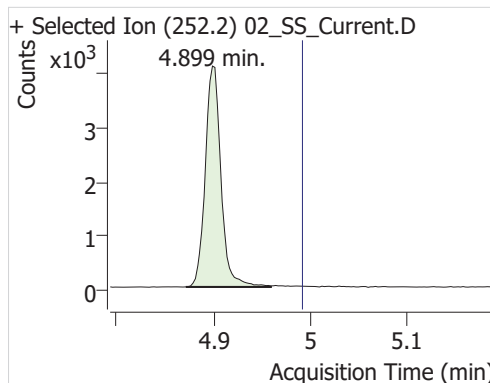
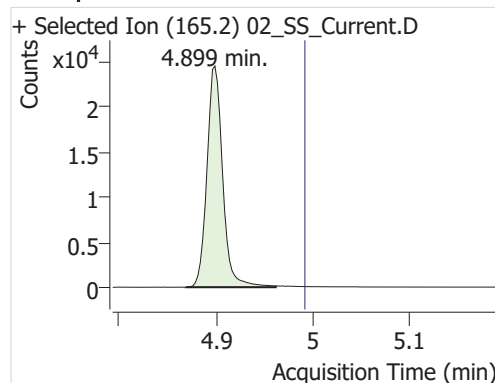
Data File       : D:\MassHunter\Data\System Suitability\CAR_20211019SS_AAJ\02_SS_Current.D
Batch results  : D:\MassHunter\Data\System Suitability\CAR_20211019SS_AAJ\QuantResults\CAR_20211019SS_AAJ
Acq. Method   : CAR
Acq. Date-Time : 10/19/2021 10:01:56 AM
Sample Name:   : SS Current
Vial Location  : 97
Instrument     : GCMS-3
Quant Batch Version : Batch was analyzed in 10.2, Report was generated in 10.2
Last Calib Update : 2/5/2021 8:57:27 AM
    
```

Acceptable carisoprodol range for new IS recovery: 19240 to 35731 - AAJ 10/19/2021

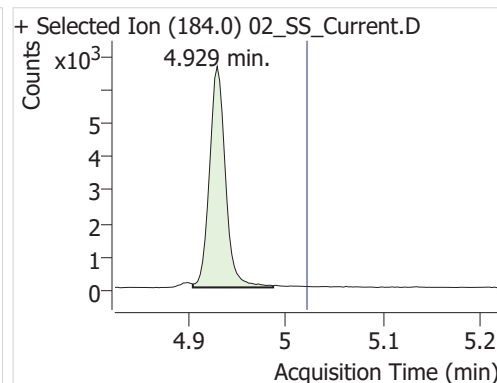
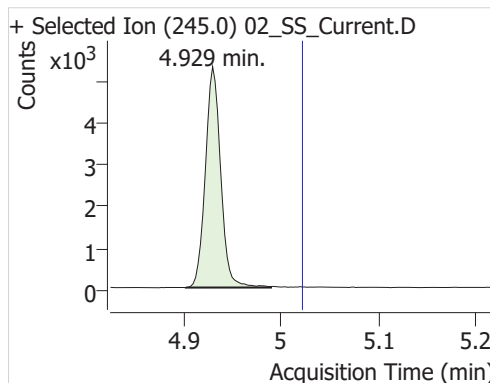
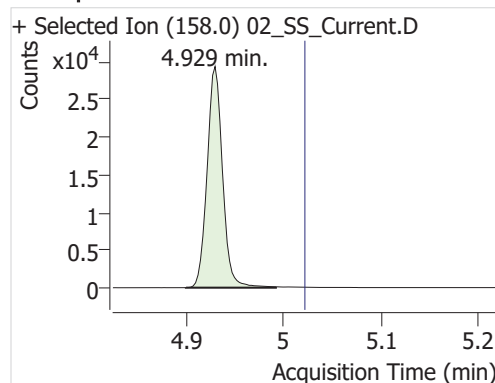
Compound	Signal	RT	Limits	Response	QRatio	Limits	Final Conc
Carisoprodol-D7	165.2	4.899	4.892 - 5.092	27485			
	252.2			4616	16.8	14.9 - 22.3	
	191.2			8041	29.3	21.4 - 32.2	
Carisoprodol	158.0	4.929	4.922 - 5.122	32470			3.81
	245.0			5850	18.0	15.7 - 23.5	
	184.0			7616	23.5	17.8 - 26.8	



### Carisoprodol-D7



### Carisoprodol



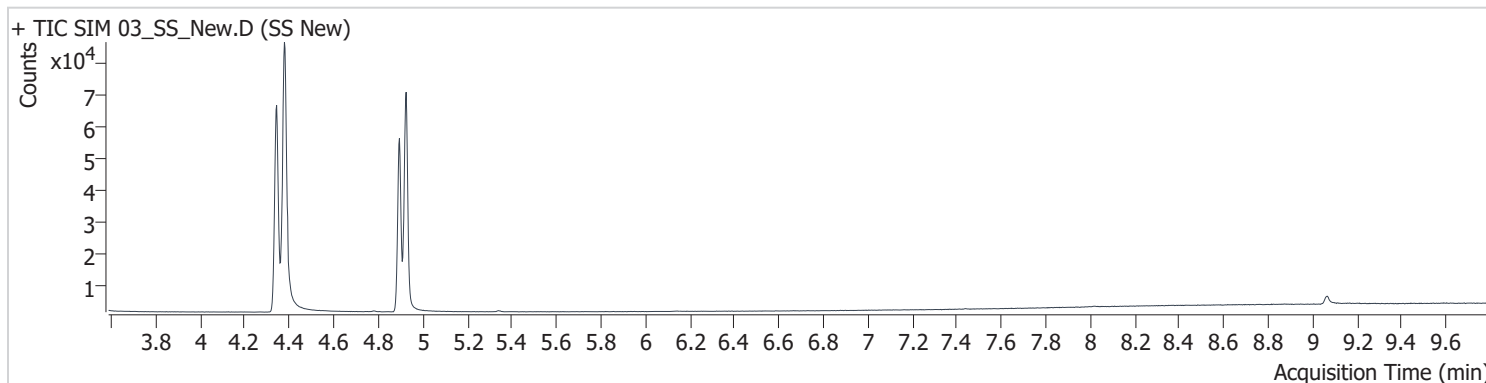
# HFSC Toxicology Analysis Report

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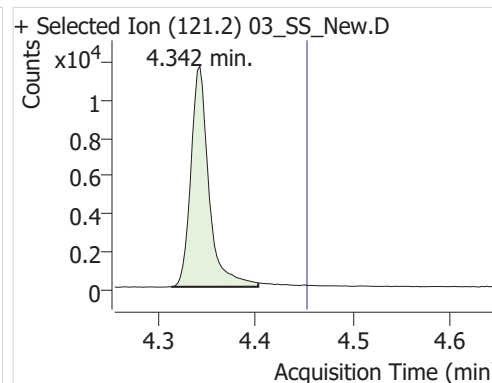
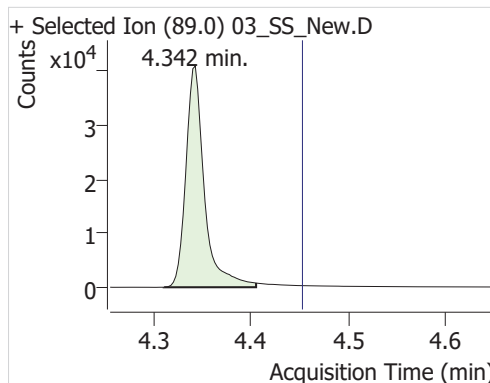
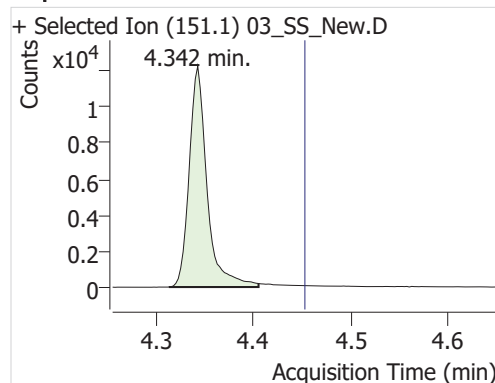
Data File       : D:\MassHunter\Data\System Suitability\CAR_20211019SS_AAJ\03_SS_New.D
Batch results  : D:\MassHunter\Data\System Suitability\CAR_20211019SS_AAJ\QuantResults\CAR_20211019SS_AAJ
Acq. Method   : CAR
Acq. Date-Time : 10/19/2021 10:15:29 AM
Sample Name:   : SS New
Vial Location  : 98
Instrument     : GCMS-3
Quant Batch Version : Batch was analyzed in 10.2, Report was generated in 10.2
Last Calib Update : 2/5/2021 8:57:27 AM
    
```

Meprobamate IS recovery is acceptable.  
- AAJ 10/19/2021

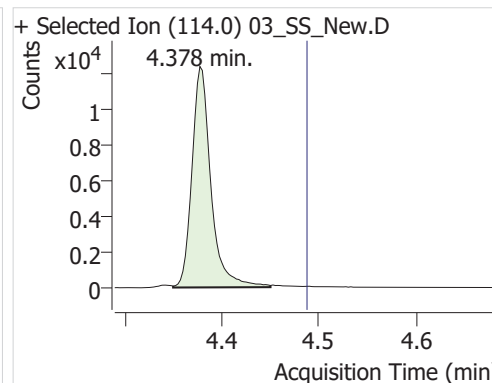
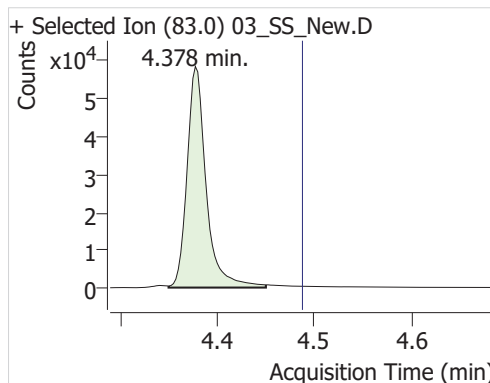
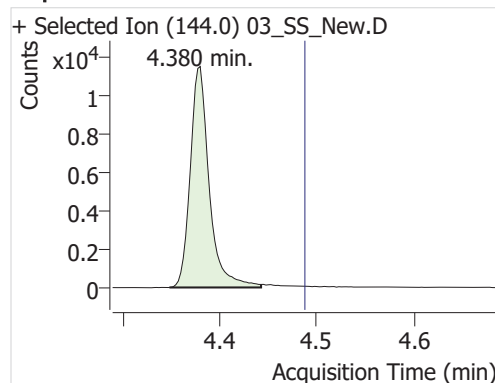
Compound	Signal	RT	Limits	Response	QRatio	Limits	Final Conc
Meprobamate-D7	151.1	4.342 *	4.364 - 4.542	15460			
	89.0			54016	349.4 *	221.5 - 332.3	
	121.2			15094	97.6	74.2 - 111.4	
Meprobamate	144.0	4.380 *	4.398 - 4.578	15470			3.57
	83.0			79450	513.6 *	309.2 - 463.8	
	114.0			16710	108.0	79.5 - 119.3	



### Meprobamate-D7



### Meprobamate



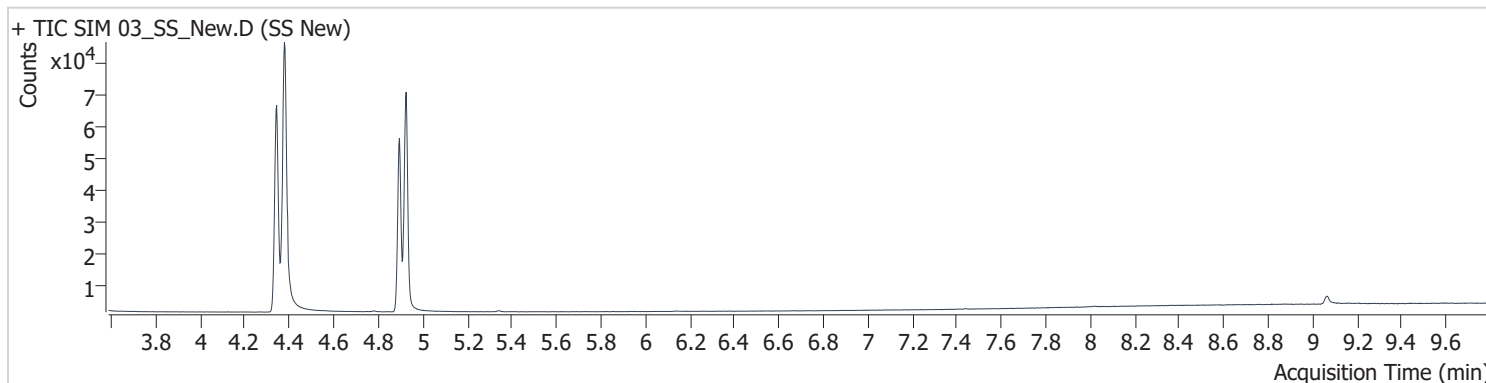
# HFSC Toxicology Analysis Report

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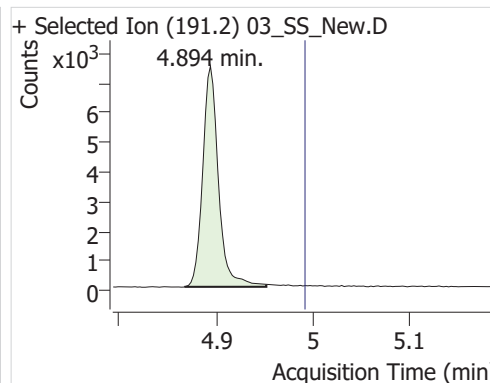
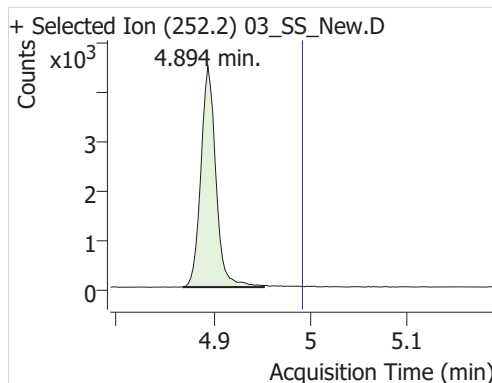
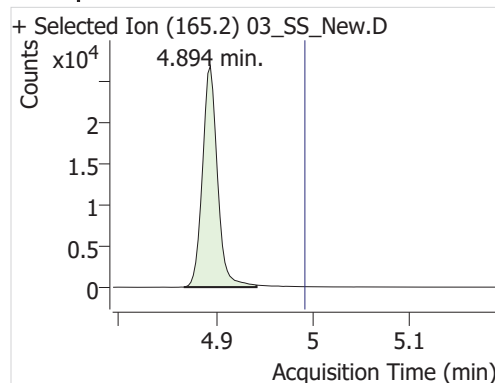
Data File       : D:\MassHunter\Data\System Suitability\CAR_20211019SS_AAJ\03_SS_New.D
Batch results   : D:\MassHunter\Data\System Suitability\CAR_20211019SS_AAJ\QuantResults\CAR_20211019SS_AAJ
Acq. Method    : CAR
Acq. Date-Time : 10/19/2021 10:15:29 AM
Sample Name:   : SS New
Vial Location  : 98
Instrument     : GCMS-3
Quant Batch Version : Batch was analyzed in 10.2, Report was generated in 10.2
Last Calib Update : 2/5/2021 8:57:27 AM
    
```

Carisoprodol IS recovery is acceptable.  
- AAJ 10/19/2021

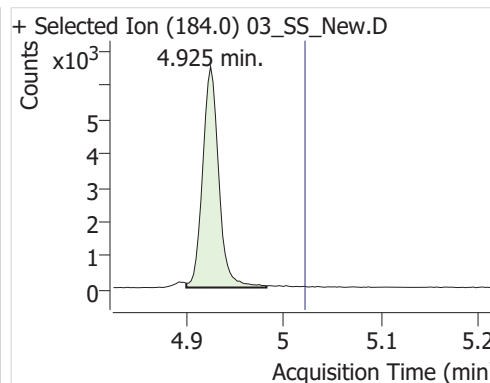
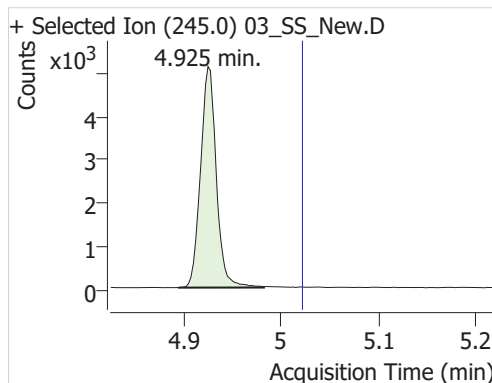
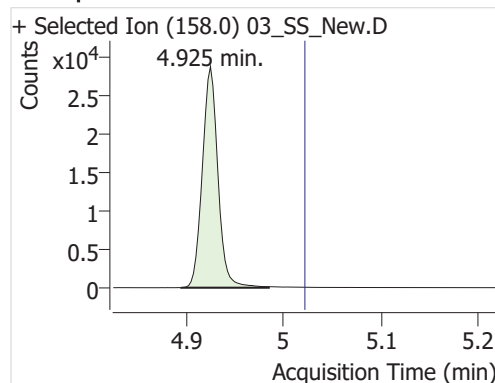
Compound	Signal	RT	Limits	Response	QRatio	Limits	Final Conc
Carisoprodol-D7	165.2	4.894	4.892 - 5.092	28709			
	252.2			4853	16.9	14.9 - 22.3	
	191.2			8443	29.4	21.4 - 32.2	
Carisoprodol	158.0	4.925	4.922 - 5.122	32079			3.60
	245.0			5774	18.0	15.7 - 23.5	
	184.0			7518	23.4	17.8 - 26.8	



### Carisoprodol-D7



### Carisoprodol

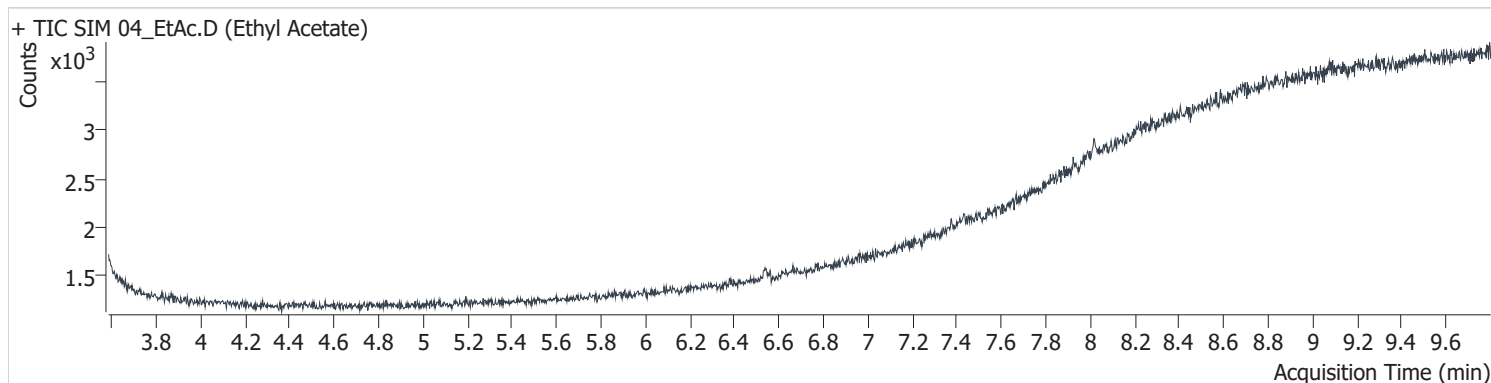




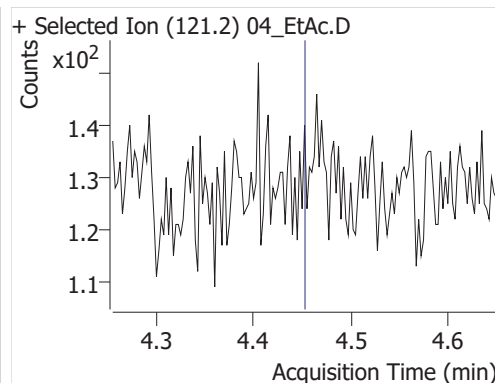
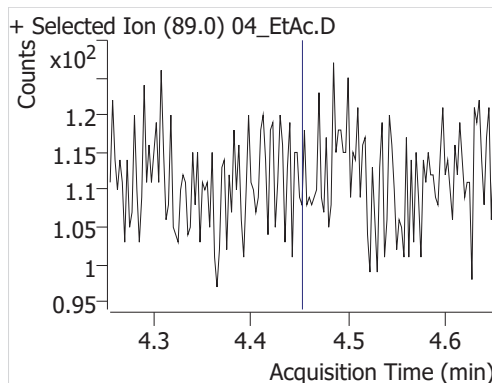
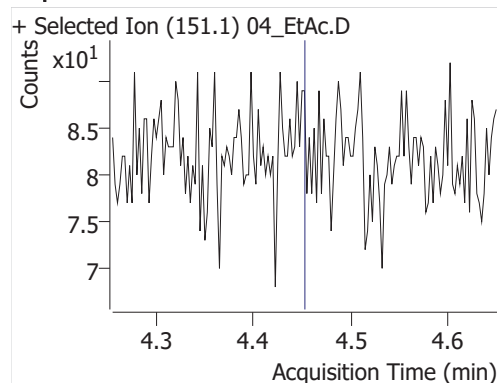
# HFSC Toxicology Analysis Report

**Data File** : D:\MassHunter\Data\System Suitability\CAR\_20211019SS\_AAJ\04\_EtAc.D  
**Batch results** : D:\MassHunter\Data\System Suitability\CAR\_20211019SS\_AAJ\QuantResults\CAR\_20211019SS\_AAJ  
**Acq. Method** : CAR  
**Acq. Date-Time** : 10/19/2021 10:29:03 AM  
**Sample Name:** : Ethyl Acetate  
**Vial Location** : 99  
**Instrument** : GCMS-3  
**Quant Batch Version** : Batch was analyzed in 10.2, Report was generated in 10.2  
**Last Calib Update** : 2/5/2021 8:57:27 AM

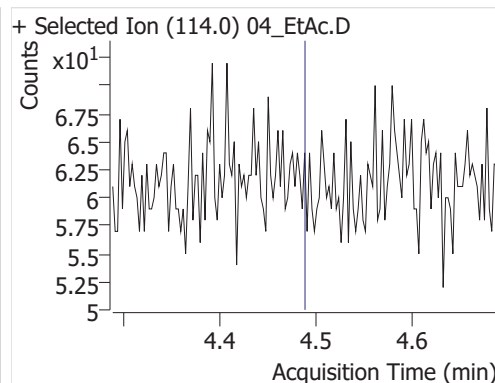
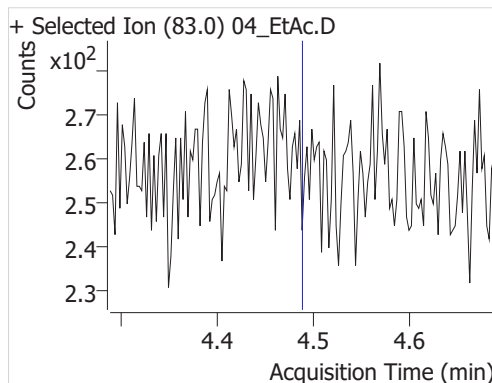
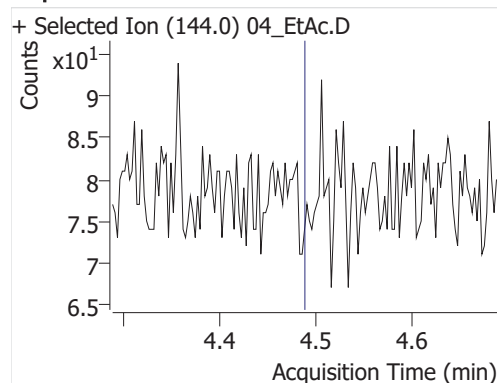
Compound	Signal	RT	Limits	Response	QRatio	Limits	Final Conc
Meprobamate-D7	151.1		4.364 - 4.542				
	89.0					221.5 - 332.3	
	121.2					74.2 - 111.4	
Meprobamate	144.0		4.398 - 4.578				ND
	83.0					309.2 - 463.8	
	114.0					79.5 - 119.3	



## Meprobamate-D7



## Meprobamate

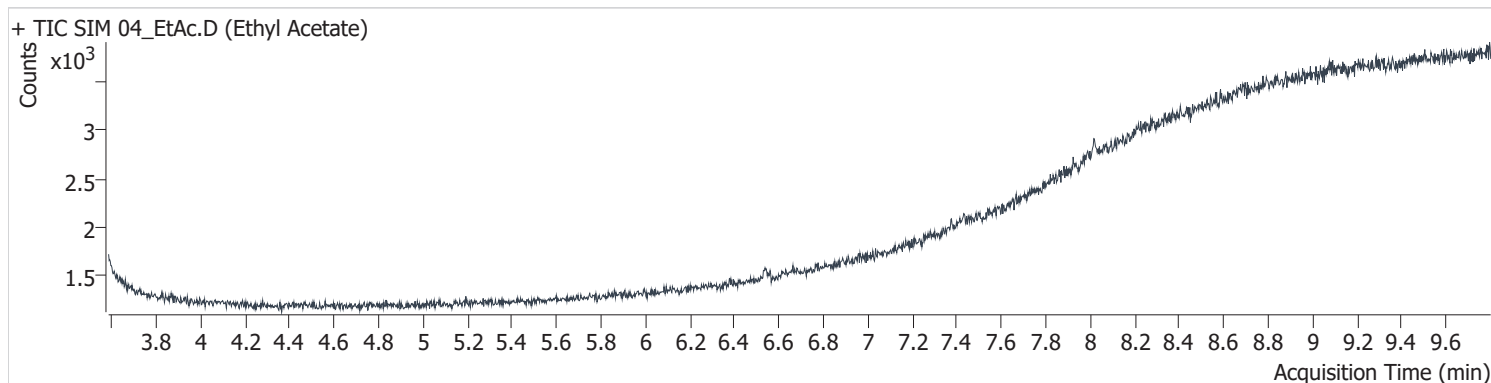


# HFSC Toxicology Analysis Report

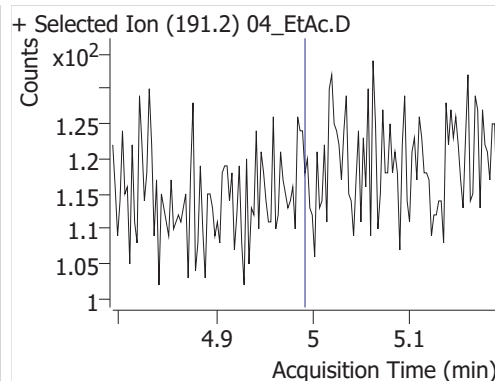
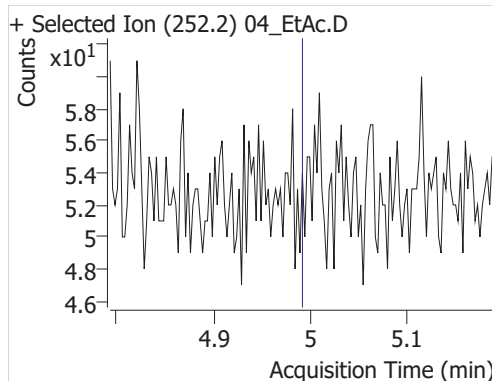
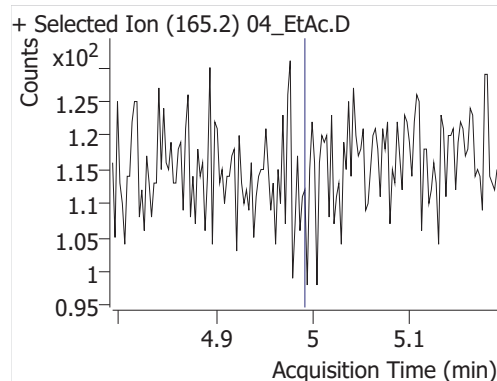
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Data File       : D:\MassHunter\Data\System Suitability\CAR_20211019SS_AAJ\04_EtAc.D
Batch results  : D:\MassHunter\Data\System Suitability\CAR_20211019SS_AAJ\QuantResults\CAR_20211019SS_AAJ
Acq. Method   : CAR
Acq. Date-Time : 10/19/2021 10:29:03 AM
Sample Name:   : Ethyl Acetate
Vial Location  : 99
Instrument     : GCMS-3
Quant Batch Version : Batch was analyzed in 10.2, Report was generated in 10.2
Last Calib Update : 2/5/2021 8:57:27 AM
    
```

Compound	Signal	RT	Limits	Response	QRatio	Limits	Final Conc
Carisoprodol-D7	165.2		4.892 - 5.092				
	252.2					14.9 - 22.3	
	191.2					21.4 - 32.2	
Carisoprodol	158.0	4.851 *	4.922 - 5.122	72			ND
	245.0					15.7 - 23.5	
	184.0					17.8 - 26.8	



## Carisoprodol-D7



## Carisoprodol

