



Houston Forensic Science Center
Comparative and Analytical Division - Toxicology

Drug GC-MS Full Scan Batch Review Checklist

Batch Date: <u>AND_20180924B_TS</u>		Analyst Review	Technical Review
Worklist	Item tested written for each case	✓	✓
	Pipette(s) used listed	✓	✓
	Lot numbers for internal standard, calibrators, controls, negative matrices, reagents, solvents, and SPE columns are listed	✓	✓
	Verify preparation of internal standard, calibrators, and controls	✓	✓
Performance Verification	Verify autotune is acceptable and corresponds with method	✓	✓
	Verify system suitability is acceptable	✓	✓
GC-MS Method	Verify correct assay method is included and all pages are accounted for	✓	✓
Sequence	Verify batch file name is consistent	✓	✓
	Reviewer verified, initialed, and dated sequence	✓	✓
	Verify appropriate calibrator and controls were analyzed, and appropriate controls were run at least after every 10 case samples	✓	✓
	Verify all cases were processed and have data	✓	✓
Qualitative Data Analysis Worksheet	Review batch file name	✓	✓
	Verify lot number for calibrators, controls, internal standard, negative matrices, reagents, solvents, and SPE columns against those on the worklist	✓	✓
	Verify positive controls are acceptable for reporting analytes	✓	✓
Data	Verify controls are acceptable for reporting analyte(s)	✓	✓
	Verify internal standard is present in all case samples	✓	✓
	Verify appropriate task is added in LIMS for positive DRS case samples	N/A	NA
	Verify full mass spectra of positive case samples have comparable library match(es)	✓	✓
Qualitative Confirmation	Verify cut-off calibrator is acceptable	✓	✓
	For positive case samples, verify reporting analyte(s) are above cutoff calibrator	✓	✓
	Positive DRS detected for all reporting analyte(s)	✓	✓
	Verify internal standard response is acceptable in case samples	✓	✓
All comments and/or strikethroughs, if any, initialed		✓	✓
All pages initialed		✓	✓

TS

Houston Forensic Science Center

Comparative and Analytical Division - Toxicology

Notes from Technical Review

lot number of acidic methanol is incorrect.

mk
9/26/18

Analyst Review

Technical Review

Signature/Date: Janyja Sathwaj, 9/26/18

Signature/Date: Meh Lloyd 9/26/18

TS



Houston Forensic Science Center

Comparative and Analytical Division - Toxicology

GC-MS Qualitative Screen Batch QC Data

Batch File Name: AND_20180924B_TS Analyst: Pamuja Sathiraj

Negative Matrix: BLOOD Lot Number(s)/Expiration: 260478; exp: 5/10/19
 URINE Lot Number(s)/Expiration: _____

Positive Control: 050118L-Q-10 Expiration: 09/30/18

Cut-off Calibrator: 050318 C-C-10 Expiration: 05/03/19

Internal Standard: 042018C-15-10 Expiration: 04/20/19

SPE Columns: 1702085-1

Pipette(s): 8937; 0398; 7906

Reagents:	Lot Number:	Exp:
<u>100 mM Phosphate Buffer, pH 6</u>	<u>180803-PB6</u>	<u>02/03/19</u>
<u>1 M Acetic acid</u>	<u>20180515-AA</u>	<u>05/15/19</u>
<u>Hexane (Acidic-Neutral Only)</u>	<u>157196</u>	<u>n/a</u>
<u>Methanol (Basic Only)</u>	<u>n/a</u>	<u>n/a</u>
<u>Methylene chloride (Basic Only)</u>	<u>n/a</u>	<u>n/a</u>
<u>Isopropanol (Basic Only)</u>	<u>n/a</u>	<u>n/a</u>
<u>Ammonium hydroxide (Basic Only)</u>	<u>n/a</u>	<u>n/a</u>
<u>Acidic methanol</u>	<u>180918^{TS 112618}-HclMeOH</u>	<u>12/10/18</u>
<u>Ethyl acetate</u>	<u>0000086545</u>	<u>Retest date: - 07/31/19</u>

TS



Houston Forensic Science Center
Comparative and Analytical Division - Toxicology

BSD Acceptance

Analyte/Cut-off (ng/mL)	Cut-off Calibrator	PQC1	PQC2	PQC3	PQC4
Meperidine (100)					
Ketamine (50)					
Fluoxetine (100)					
Diphenhydramine (50)					
Doxylamine (50)					
Tramadol (100)					
Venlafaxine (50)					
Methadone (50)					
Propoxyphene (50)					
Amitriptyline (50)					
Nortriptyline (100)					
Imipramine (50)					
Cyclobenzaprine (25)					
Phenytoin (500)					
Sertraline (50)					
Zolpidem (25)					
Trazodone (100)					

TS 9/26/18

AND Acceptance

Analyte/Cut-off (ng/mL)	Cut-off Calibrator	PQC1	PQC2	PQC3	PQC4
Butalbital (500)	✓	✓	✓		
Meprobamate (500)	✓	✓	✓		
Secobarbital (500)	✓	✓	✓	n/a	n/a
Carisoprodol (500)	✓	✓	✓		
Phenobarbital (500)	✓	✓	✓		

Batch Notes:
 Verifying AND QC lot # 180920L-Q-10; expiry:- 9/20/19.
 Sample meets acceptance criteria. OK to use in casework.

AND_20180924B_TS

TS

Sequence Name: C:\MSDCHEM\1\SEQUENCE\AND_20180924B_TS.S

Comment:

Operator: Tanuja Sathiraj

Data Path: D:\DATA\2018\AND\AND_20180924B_TS\

Instrument Control Pre-Seq Cmd:

Data Analysis Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:

Data Analysis Post-Seq Cmd:

Method Sections To Run	Sequence Barcode Options
(X) Full Method	(X) On Mismatch, Inject Anyway
() Reprocessing Only	() On Mismatch, Don't Inject
	() Barcode Disabled

Line		Sample Name/Misc Info
1)	Specimen	1 01_BB QCONFIRM Blank Blood
2)	Specimen	2 Cutoff Cal Blood
	Datafile	02_CutoffBL
	Method	QCONFIRM
3)	Specimen	3 03_NegBL QCONFIRM Neg QC Blood
4)	Specimen	4 04_PosBL QCONFIRM Pos QC Blood
5)	Specimen	5 2018-08618-1.2
	Datafile	05_2018_08618
	Method	QCONFIRM
6)	Specimen	6 2018-09636-1.1
	Datafile	06_2018_09636
	Method	QCONFIRM
7)	Specimen	7 Pos QC1-180920L-Q-10
	Datafile	07_180920L-Q-10
	Method	QCONFIRM
8)	Specimen	8 Pos QC2-180920L-Q-10
	Datafile	08_180920L-Q-10
	Method	QCONFIRM
9)	Specimen	9 15_PosBL QCONFIRM Pos QC Blood
10)	Specimen	98 16_EtAc QCONFIRM Ethyl Acetate
11)	Specimen	98 17_EtAc QCONFIRM Ethyl Acetate
12)	Specimen	98 18_EtAc QCONFIRM Ethyl Acetate
13)	Specimen	100 19_MeOH QCONFIRM Methanol
14)	Specimen	100 20_MeOH QCONFIRM Methanol
15)	Specimen	100 21_MeOH QCONFIRM Methanol
16)	Specimen	100 Methanol
	Datafile	22_MeOH
	Method	QCONFIRM_CLEANUP
17)	Specimen	100 Methanol
	Datafile	23_MeOH
	Method	QCONFIRM_CLEANUP
18)	Specimen	100 Methanol
	Datafile	24_MeOH
	Method	QCONFIRM_CLEANUP

*sequence verified
9/24/18 mlh*

AND_20180924B_TS

TS



Alcohol/Toxicology
Work List for Tanuja Sathiraj / AND

9/24/2018

Priority	Lab Case# / Item#	Description
2018-08618	072055118	Driving While Intoxicated (Liquor)(DWI)
	Normal	~4 mL -CLR 7/2/18
		Reanalyze for ALP-TS 08/28/18
	1.2 one grey top tube	
2018-09636	082352218	Driving While Intoxicated - Felony (DWI)
	Normal	~13 mL -CLR 7/17/18
	1.1 one grey top tube	
Total Tasks		<u>2</u>



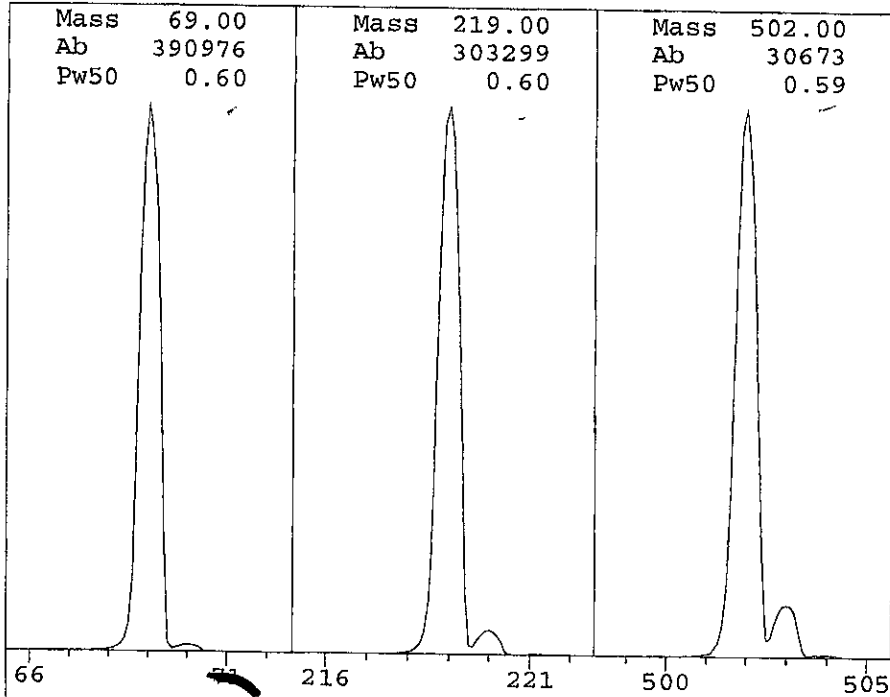
Negative matrix: - 260478; expiry: - 5/10/19
 cut off calibrator 050318C-C-10; expiry: - 05/03/19
 A/N Qc : 050118L-Q-10; expiry: - 9/30/18
 Pentobarbital IS: - 042018C-15-10; expiry: - 4/20/19
 Verifying ^{AND} A/N Qc Lot# 180920L-Q-10; expiry: - 9/20/19
 100mM Sodium phosphate Buffer: - 180803-PB6; exp: - 02/03/19
 SPE Columns: - 170208S-1
 IM acetic acid: - 20180515-AA; exp: 5/15/19
 Hexane: - 157196; exp: n/a
 Ethyl acetate: - 0000086545; retest date: - 07/31/19
 Acidic methanol: - 180918 ^{QTS 9/26/18} Hcl MeOH; exp: - 12/10/18
 Pipettes: - 8937; 0398; 7906



12,554

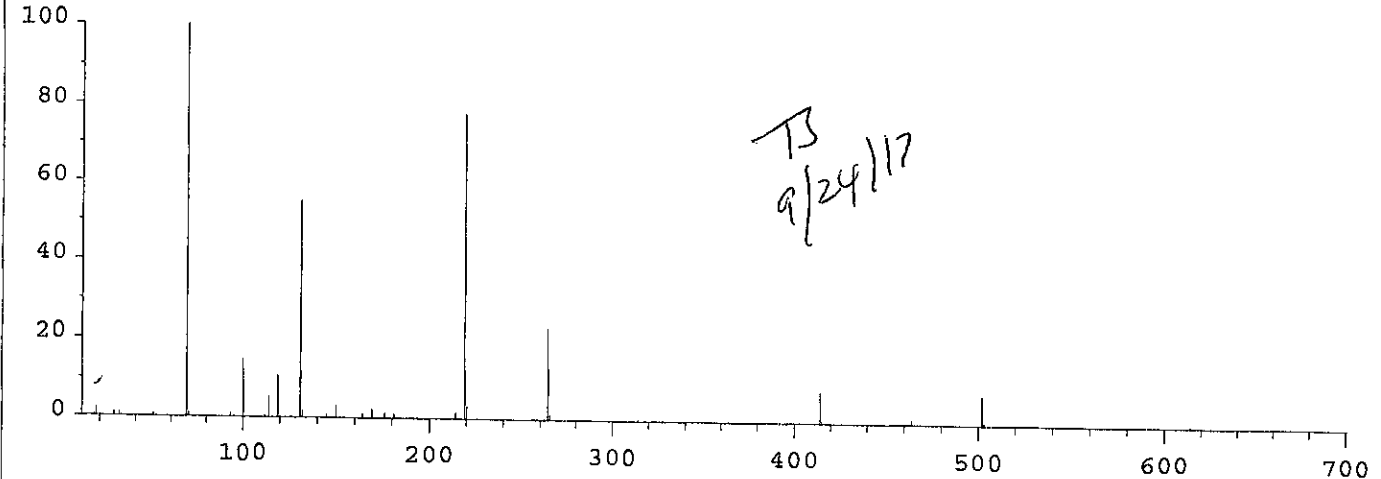
AND - 20180924B-TS

TS



Ion Pol Pos MassGain -605
 MassOffs -37
 Emission 34.6 AmuGain 1918
 EIEnrgy 69.9 AmuOffs 121.56
 Filament 2 Wid219 -0.028
 DC Pol Pos
 Repeller 27.27
 IonFcus 90.2 HEDenab On
 EntLens 22.0 EMVolts 1765
 EntOffs 19.07
 Samples 8
 PFTBA Open Averages 3
 Stepsize 0.10
 Temperatures and Pressures:
 MS Source 230 Foreline70.453
 MS Quad 150 HiVac 1.00e10

Scan: 10.00 - 701.00 Samples: 8 Thresh: 100 Step: 0.10
 97 peaks Base: 69.00 Abundance: 373632



Mass	Abund	Rel Abund	Iso Mass	Iso Abund	Iso Ratio
69.00	373632	100.00	70.00	4271	1.14 ✓
219.00	290048	77.63 ✓	220.00	12357	4.26 ✓
502.10	28288	7.57 ✓	503.10	2909	10.28 ✓

Air/Water Check: H2O~2.15% N2~0.99% O2~0.28% CO2~0.06% N2/H2O~45.99%

Column(1) Flow: 1.49 Column(2): -1.79769e+308 ml/min. Interface Temp: 280

Ramp Criteria:

Ion Focus Maximum 90 volts using ion 502; EM Gain 42595
 Repeller Maximum 35 volts using ion 219; Gain Factor 0.43

MassGain Values(Samples): -596(3) -589(2) -583(1) -560(0) -473(FS)

TARGET MASS:	50	69	131	219	414	502	1050
Amu Offset:	121.6	121.6	121.6	121.6	121.6	121.6	121.6
Entrance Lens Offset:	19.1	19.1	19.1	19.1	19.1	19.1	19.1

AND_20180924B-TS

TS

C:\MSDCHEM\1\METHODS\QCONFIRM.M
 Mon Sep 24 11:23:02 2018

Control Information

 Sample Inlet : GC
 Injection Source : GC ALS
 Mass Spectrometer : Enabled

No Sample Prep method has been assigned to this method.

GC
 Oven
 Temperature
 Setpoint On
 (Initial) 110 °C
 Hold Time 0.5 min
 Post Run 150 °C
 Program
 #1 Rate 20 °C/min
 #1 Value 180 °C
 #1 Hold Time 2.5 min
 #2 Rate 5 °C/min
 #2 Value 230 °C
 #2 Hold Time 0.1 min
 #3 Rate 25 °C/min
 #3 Value 320 °C
 #3 Hold Time 4.5 min

Equilibration Time 0.5 min
 Max Temperature 325 °C
 Slow Fan Disabled
 Cryo Off

ALS
 Front Injector
 Syringe Size 10 µL
 Injection Volume 2 µL
 Injection Repetitions 1
 Injection Delay 0 sec
 Solvent A Washes (PreInj) 6
 Solvent A Washes (PostInj) 6
 Solvent A Volume 8 µL
 Solvent B Washes (PreInj) 6
 Solvent B Washes (PostInj) 6
 Solvent B Volume 8 µL
 Sample Washes 0
 Sample Wash Volume 8 µL
 Sample Pumps 0
 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

Sample Overlap
 Mode Sample overlap is not enabled

ALS Errors Pause for user interaction

AND_20180924B_TS

Front SS Inlet He
 Mode Pulsed Split
 Heater On 250 °C
 Pressure On 16.748 psi
 Total Flow On 15.435 mL/min
 Septum Purge Flow On 8 mL/min
 Gas Saver On 16 After 2 min mL/min
 Split Ratio 4 :1
 Split Flow 5.9482 mL/min
 Injection Pulse Pressure 30 psi Until 1 min

Thermal Aux 2 (MSD Transfer Line)
 Temperature
 Setpoint On
 (Initial) 280 °C
 Hold Time 0 min
 Post Run 0 °C

Column
 Column #1
 Flow
 Setpoint Off
 (Initial) 1.487 mL/min
 Hold Time 0 min
 Post Run 0.57353 mL/min

Agilent 122-5532
 DB-5MS
 -60 °C-325 °C (325 °C): 30 m x 250 µm x 0.25 µm
 In Front SS Inlet He
 Out MSD
 (Initial) 110 °C
 Pressure 16.748 psi
 Flow 1.487 mL/min
 Average Velocity 45.67 cm/sec
 Holdup Time 1.0948 min

Signals
 Signal #1: Test Plot
 Description Test Plot
 Details
 Save Off
 Data Rate 50 Hz
 Dual Injection Assignment Front Sample

Signal #2: Test Plot
 Description Test Plot
 Details
 Save Off
 Data Rate 50 Hz
 Dual Injection Assignment Front Sample

Signal #3: Test Plot
 Description Test Plot
 Details
 Save Off
 Data Rate 50 Hz
 Dual Injection Assignment Back Sample

Signal #4: Test Plot
 Description Test Plot
 Details
 Save Off
 Data Rate 50 Hz
 Dual Injection Assignment Back Sample

MS ACQUISITION PARAMETERS

General Information

Tune File : atune.u
Acquistion Mode : Scan

MS Information

Solvent Delay : 3.50 min
EMV Mode : Relative
Relative Voltage : 247
Resulting EM Voltage : 2012

[Scan Parameters]

Low Mass : 35.0
High Mass : 500.0
Threshold : 150
Sample # : 2 A/D Samples 4

[MSZones]

MS Source : 230 C maximum 250 C
MS Quad : 150 C maximum 200 C

END OF MS ACQUISITION PARAMETERS

TUNE PARAMETERS for SN: US92013452

Trace Ion Detection is ON.

EMISSION : 34.610V
ENERGY : 69.922V
REPELLER : 27.275V
IONFOCUS : 90.157V
ENTRANCE_LE : 22.000V
EMVOLTS : 1764.706V
Actual EMV : 2011.77
GAIN FACTOR : 1.50
AMUGAIN : 1918.000
AMUOFFSET : 121.563
FILAMENT : 2.000
DCPOLARITY : 0.000
ENTLENSOFFS : 19.075
MASSGAIN : -605.000
MASSOFFSET : -37.000

TS
9/25/18

END OF TUNE PARAMETERS

END OF INSTRUMENT CONTROL PARAMETERS

MSD Deconvolution Report
 Sample Name: System Suitability
 Data File: D:\DATA\2018\System
 Suitability\AND_20180924_SS\2018-09-24-0814.b\01SS.D
 Date/Time: 9:12:32 AM Wednesday, September 26, 2018

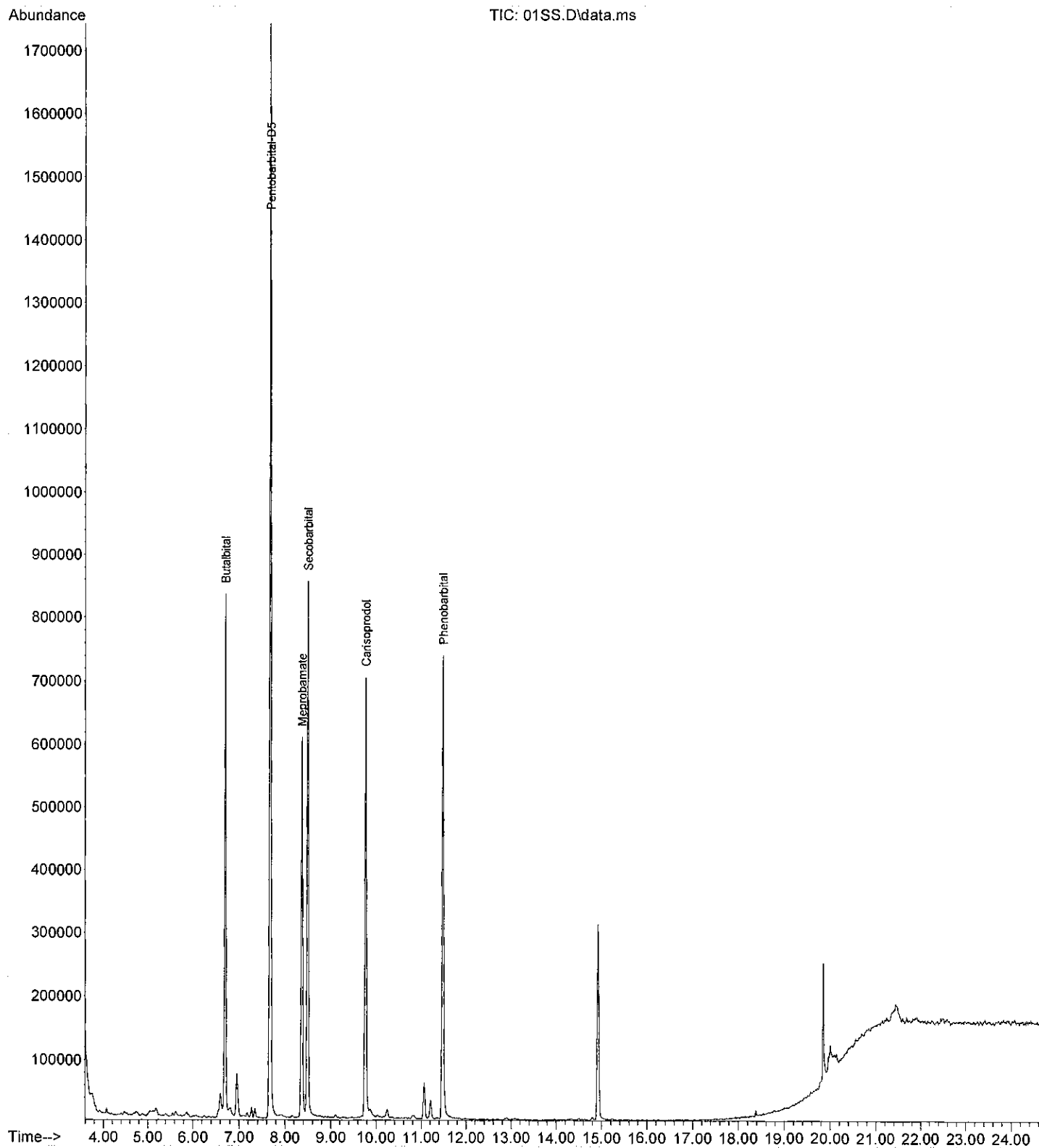
Adjacent Peak Subtraction = 1
 Resolution = Medium
 Sensitivity = High
 Shape Requirements = Medium

The NIST library was searched for the components that were found in the AMDIS target library.

R.T.	Cas #	Compound Name	Amount (ng/mL)		AMDIS		NIST	
			Chem station	AMDIS	Match	R.T. Diff sec.	Reverse Match	Hit Num.
6.7079	77269	Butalbital			100✓	0.6	95	1
7.6835	52944668	Pentobarbital-D5			100✓	1.0		
7.6835	3189488	2-Indolizine, carboxylic acid					64	1
8.3766	57534	Meprobamate			100✓	-0.2	93	1
8.4975	76733	Secobarbital			100✓	-1.0	93	1
9.7748	78444	Carisoprodol			95✓	-1.8	95	1
11.4879	50066	Phenobarbital			99✓	-1.6	96	1
6.705		Butalbital	431.01					
7.684		Pentobarbital-D5	1					
8.374		Meprobamate	495.76					
8.502		Secobarbital	513.76					
9.775		Carisoprodol	534.34					
11.487		Phenobarbital	1174.6					

TS

File :D:\DATA\2018\System Suitability\AND_20180924_SS\2018-09-24-0
... 814.b\01SS.D
Operator : Tanuja Sathiraj
Instrument : GC-MS 4
Acquired : 24 Sep 2018 8:20 using AcqMethod QCONFIRM.M
Sample Name: System Suitability
Misc Info :



AND_20180924B-T5

AS

MSD Deconvolution Report
Sample Name: Blank Blood
Data File: D:\DATA\2018\AND\AND_20180924B_TS\2018-09-24-1128.b\01_BB.D
Date/Time: 2:52:32 PM Monday, September 24, 2018

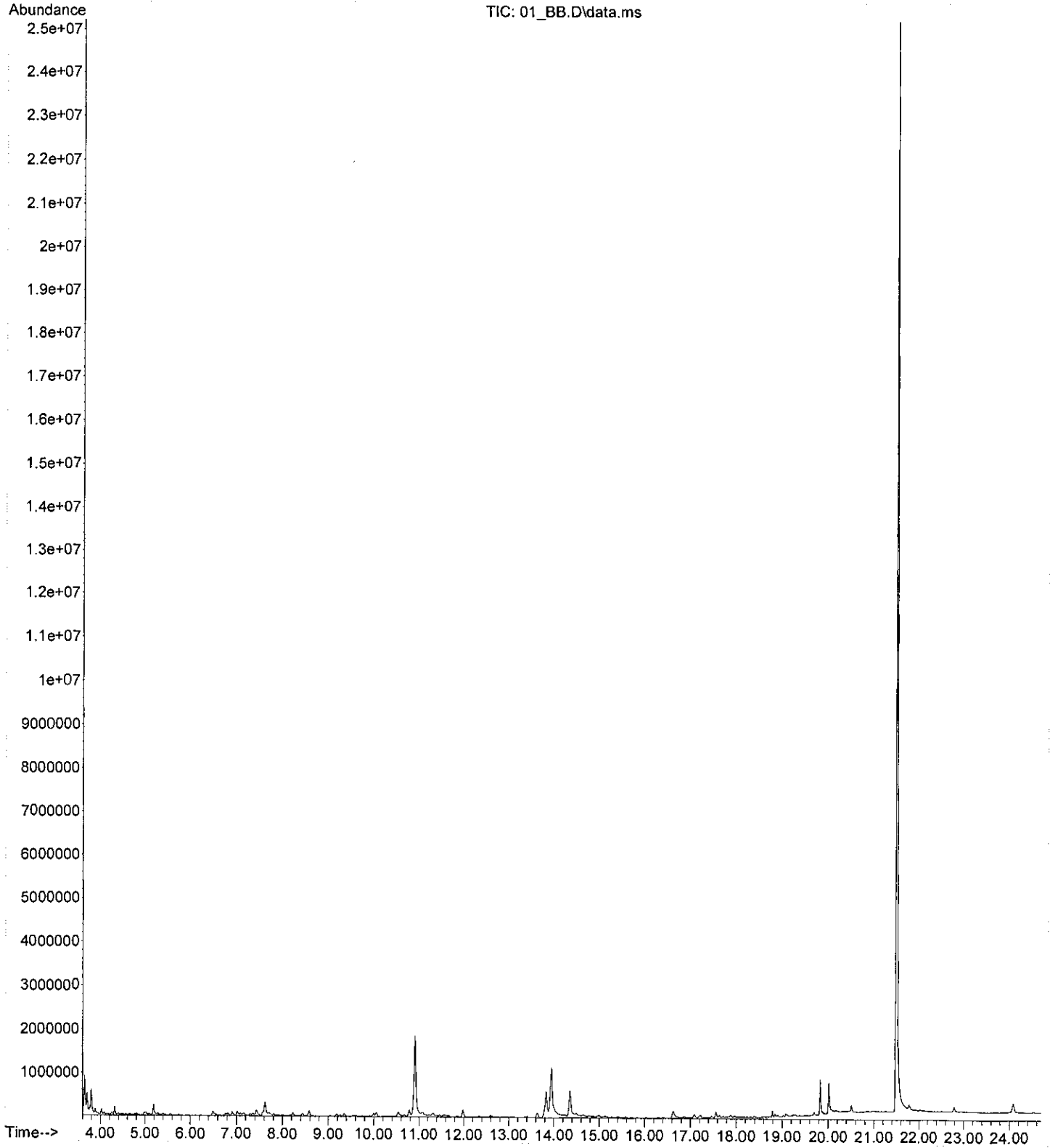
Adjacent Peak Subtraction = 1
Resolution = Medium
Sensitivity = High
Shape Requirements = Medium

The NIST library was searched for the components that were found in the AMDIS target library.

R.T.	Cas #	Compound Name	Amount (ng)		AMDIS		NIST	
			Chem station	AMDIS	Match	R.T. Diff sec.	Reverse Match	Hit Num.

TS

File :D:\DATA\2018\AND\AND_20180924B_TS\2018-09-24-1128.b\01_BB.D
Operator : Tanuja Sathiraj
Acquired : 24 Sep 2018 11:34 using AcqMethod QCONFIRM.M
Instrument : GC-MS 4
Sample Name: Blank Blood
Misc Info :
Vial Number: 1



AS

MSD Deconvolution Report
 Sample Name: Cutoff Cal Blood
 Data File: D:\DATA\2018\AND\AND_20180924B_TS\2018-09-24-1128.b\02_CutoffBL.D
 Date/Time: 2:51:29 PM Monday, September 24, 2018

Adjacent Peak Subtraction = 1
 Resolution = Medium
 Sensitivity = High
 Shape Requirements = Medium

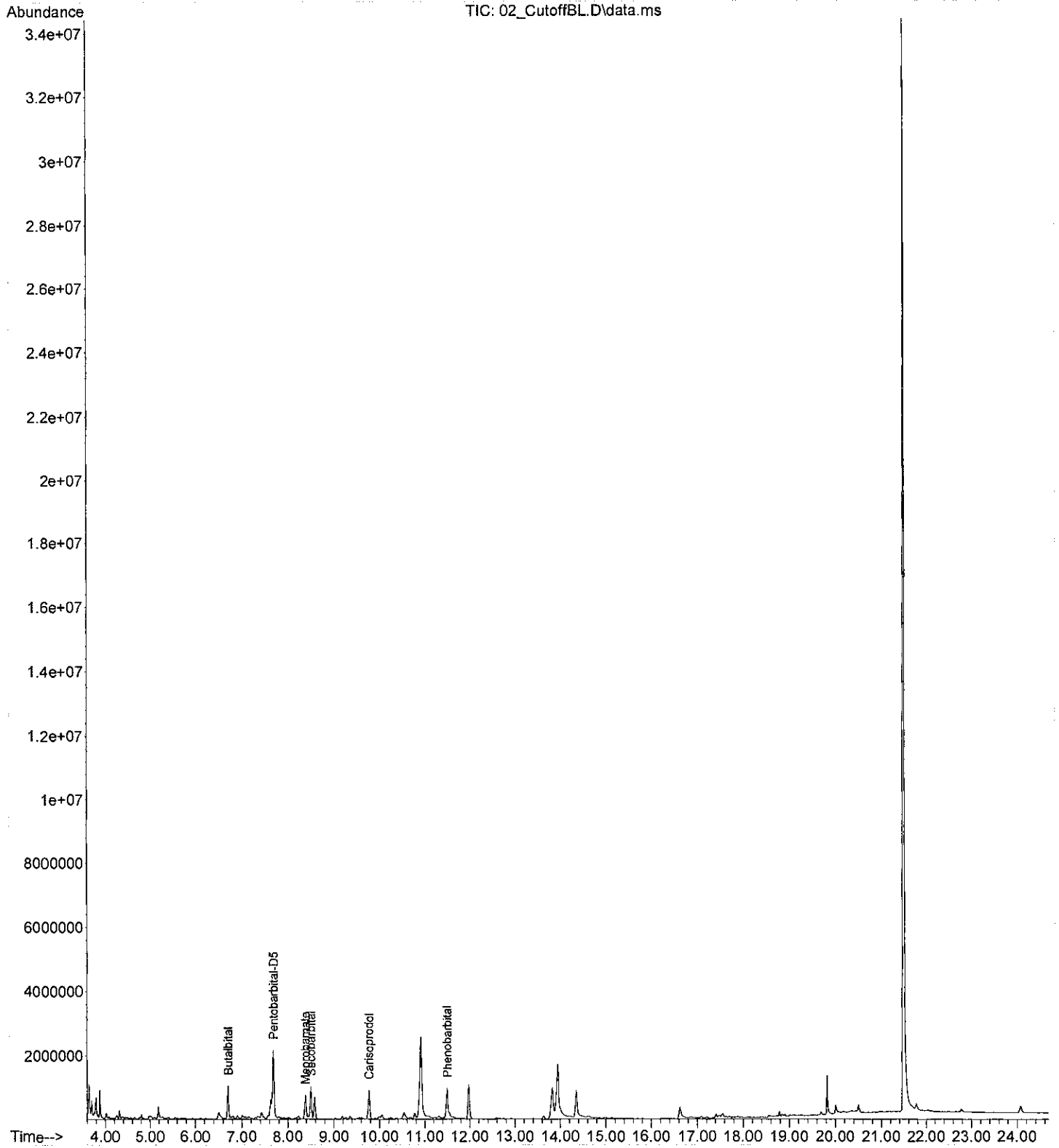
The NIST library was searched for the components that were found in the AMDIS target library.

R.T.	Cas #	Compound Name	Amount (ng/mL)		AMDIS		NIST	
			Chem station	AMDIS	Match	R.T. Diff sec.	Reverse Match	Hit Num.
6.7094	77269	Butalbital		✓	100	0.7	96	1
7.6887	52944668	Pentobarbital-D5		✓	98	1.4		
7.6887	3189488	2-Indolizine, carboxylic acid					64	1
8.3878	57534	Meprobamate		✓	98	0.5	92	1
8.5034	76733	Secobarbital		✓	100	-0.7	93	1
9.7779	78444	Carisoprodol		✓	95	-1.6	93	1
11.5023	50066	Phenobarbital		✓	99	-0.8	95	1
6.71		Butalbital	500	✓				
7.689		Pentobarbital-D5	1					
8.385		Meprobamate	500	✓				
8.502		Secobarbital	500	✓				
9.775		Carisoprodol	500	✓				
11.503		Phenobarbital	500	✓				

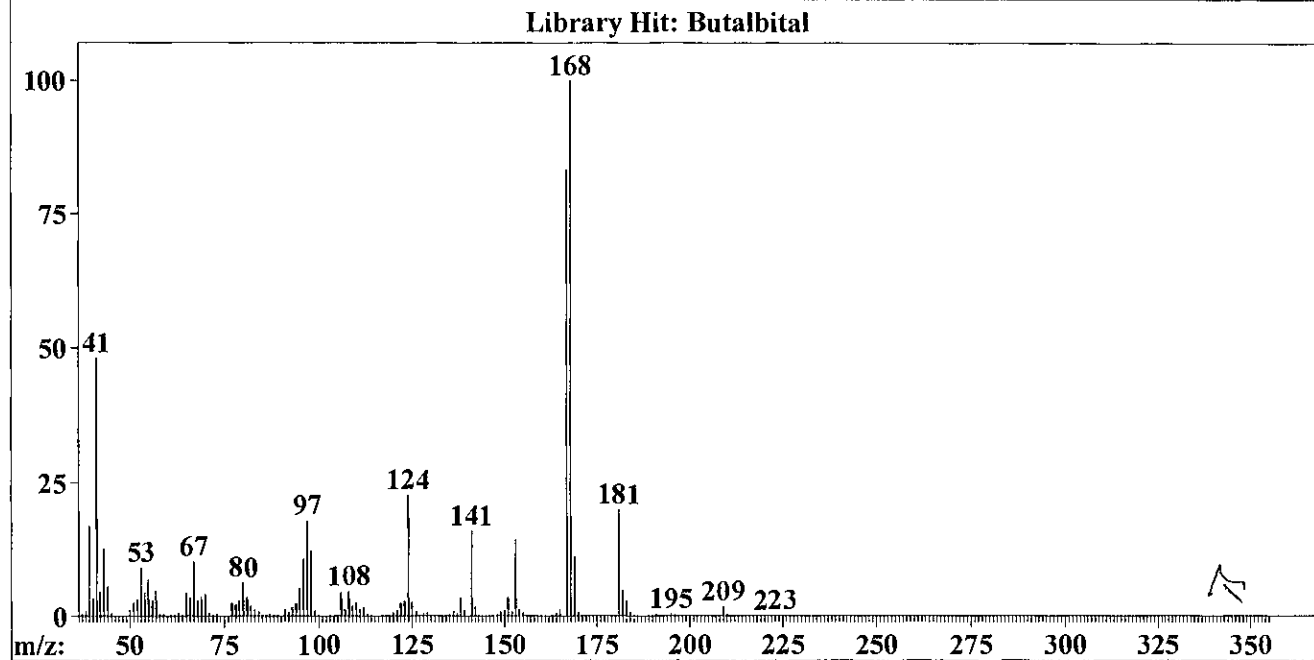
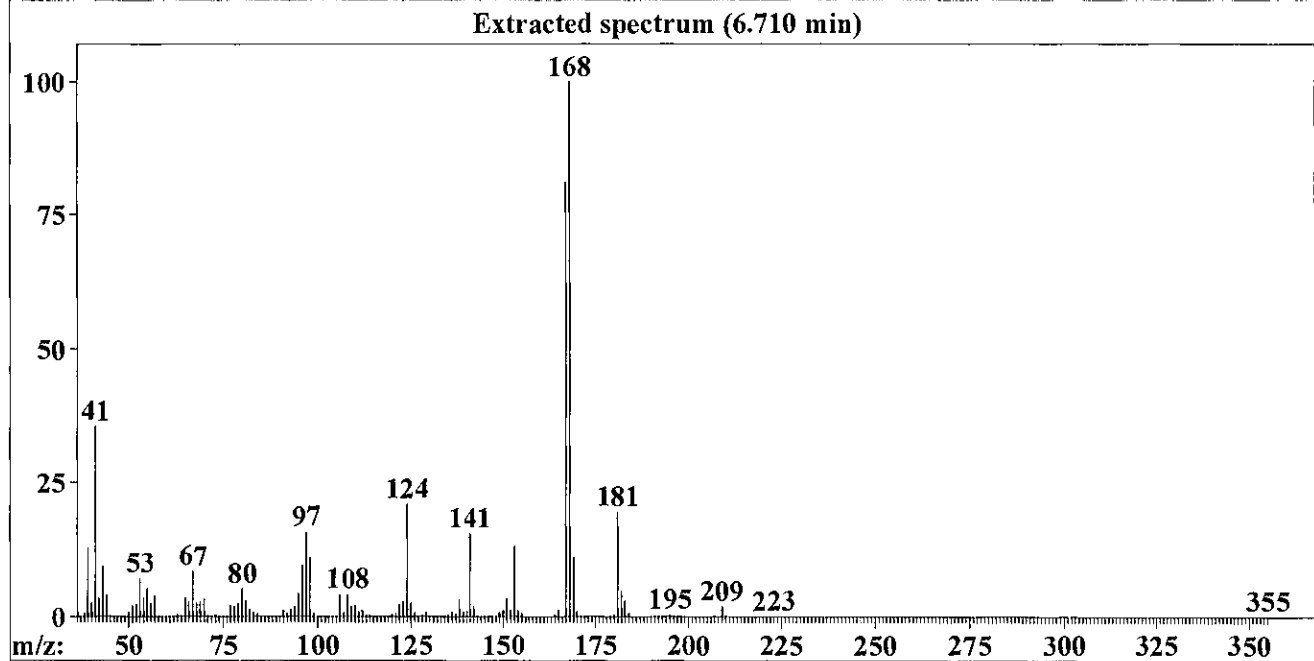
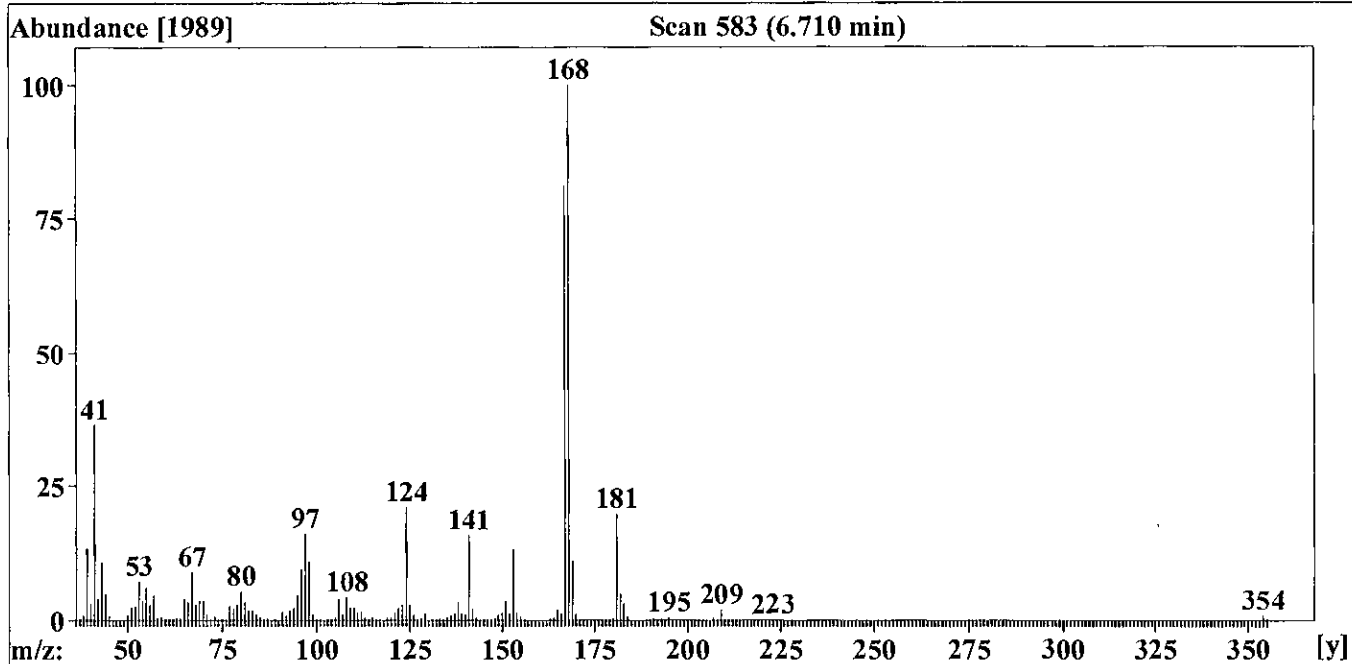
Average Internal Standard abundance
 for calibrator, negative and positive Q cs
 is 5301.
 50% to 200% range is 2650 to 10602
 TS 9/26/18

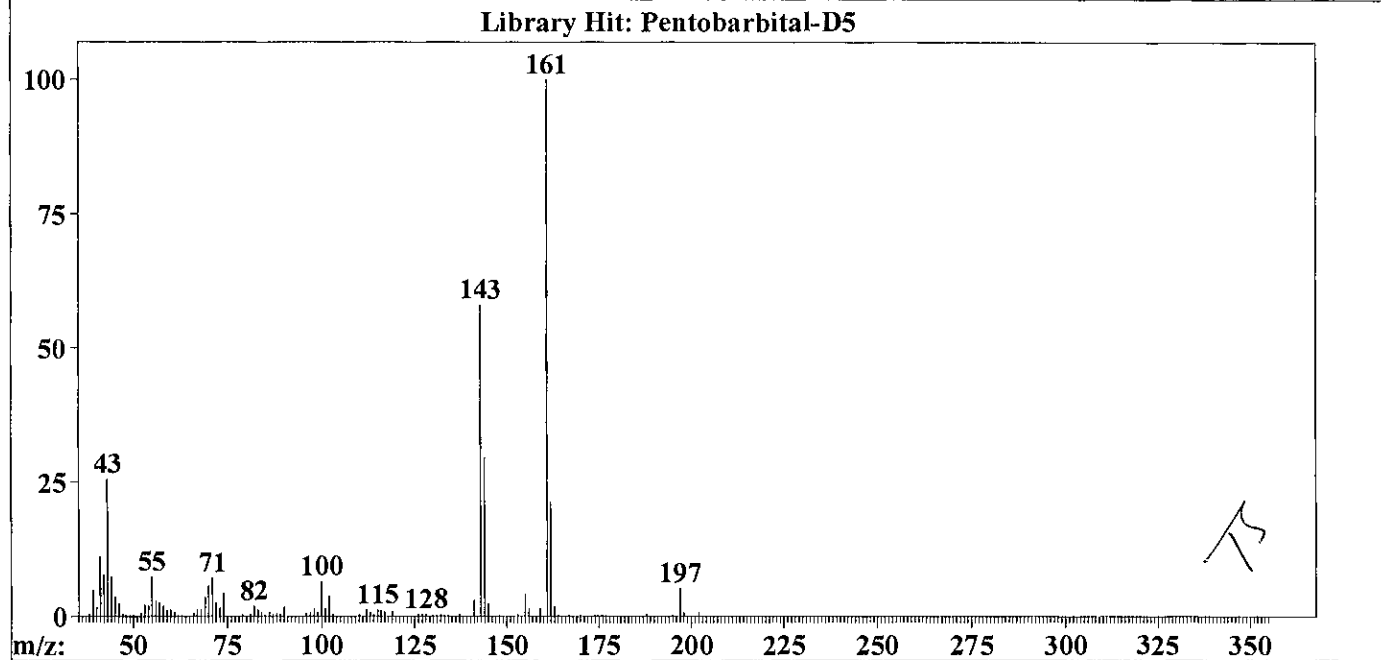
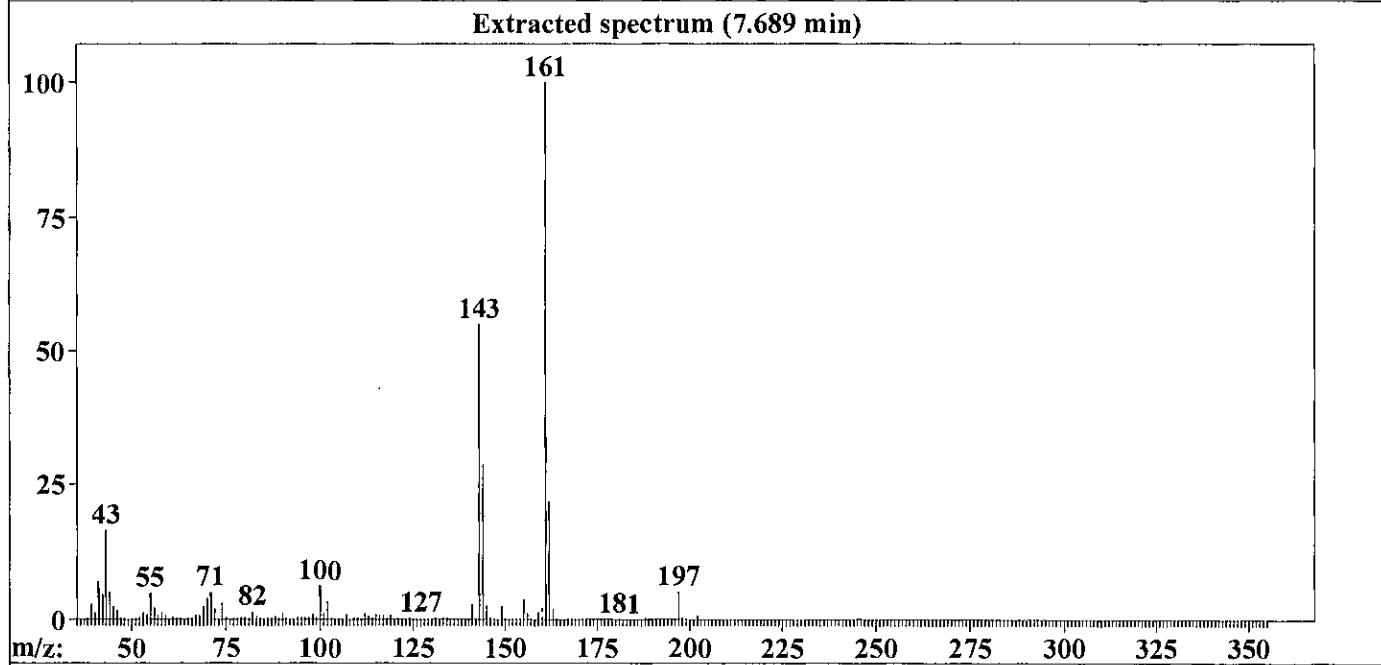
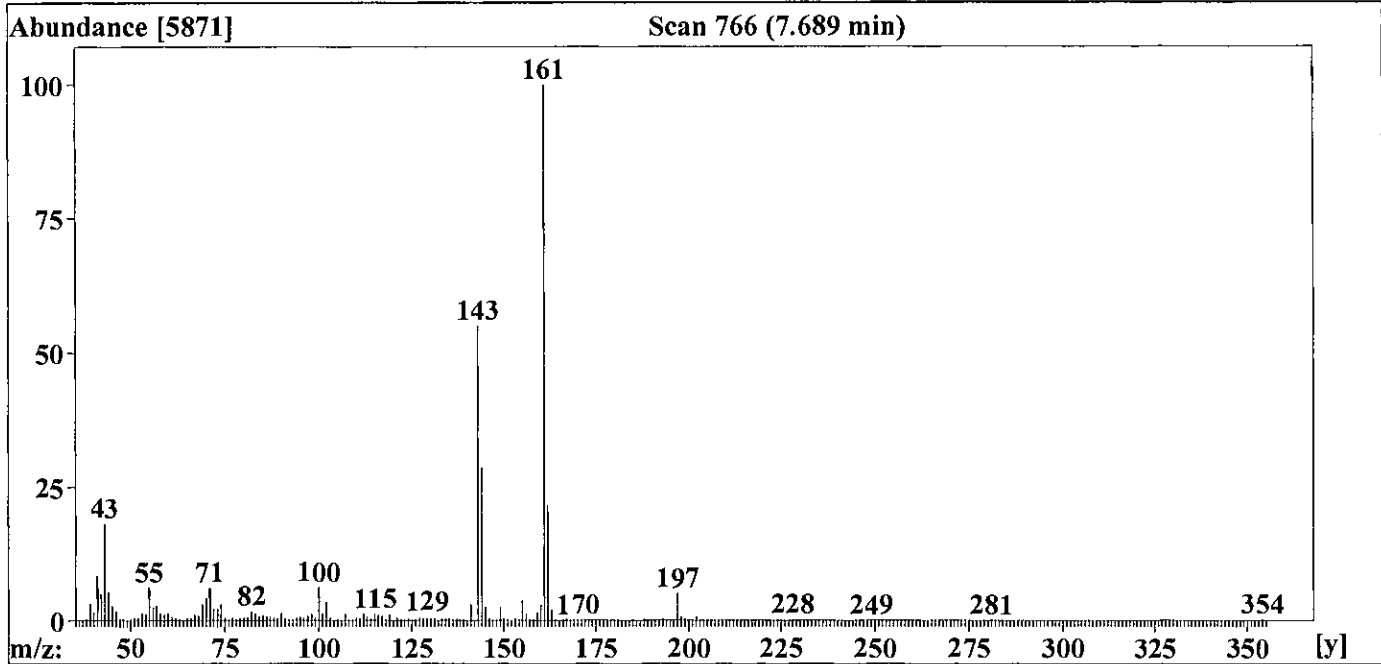
13

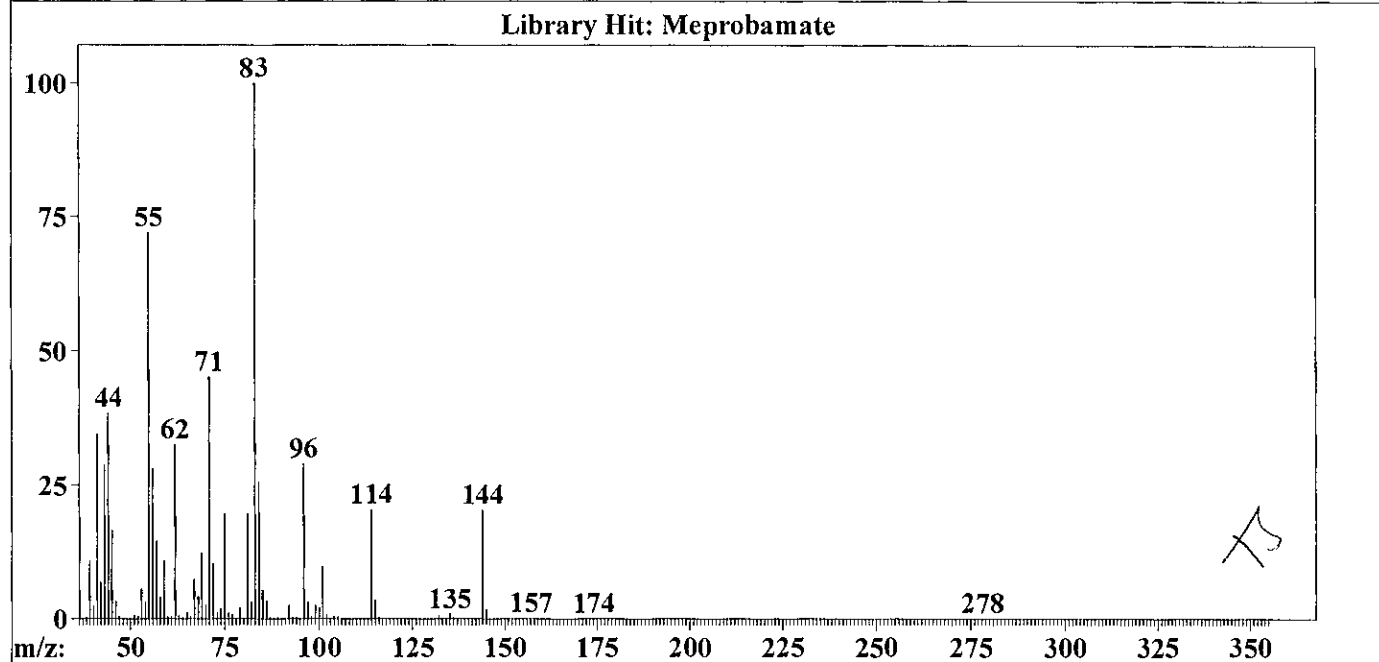
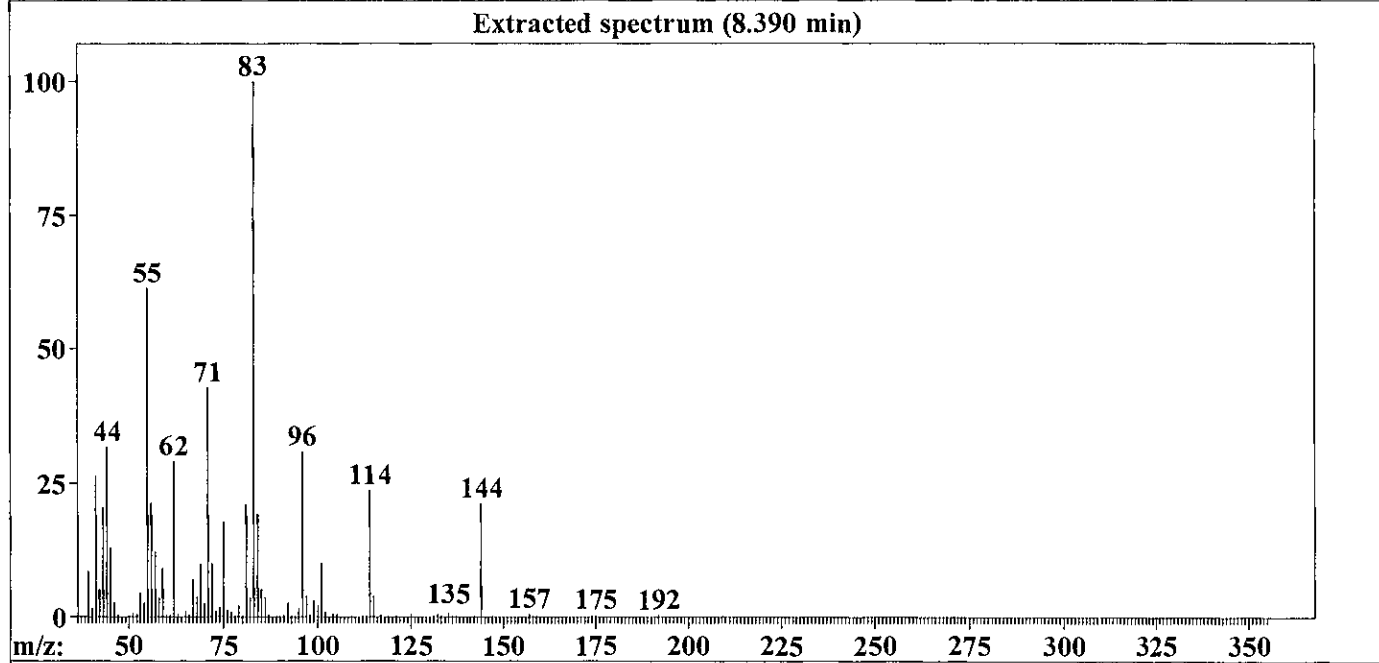
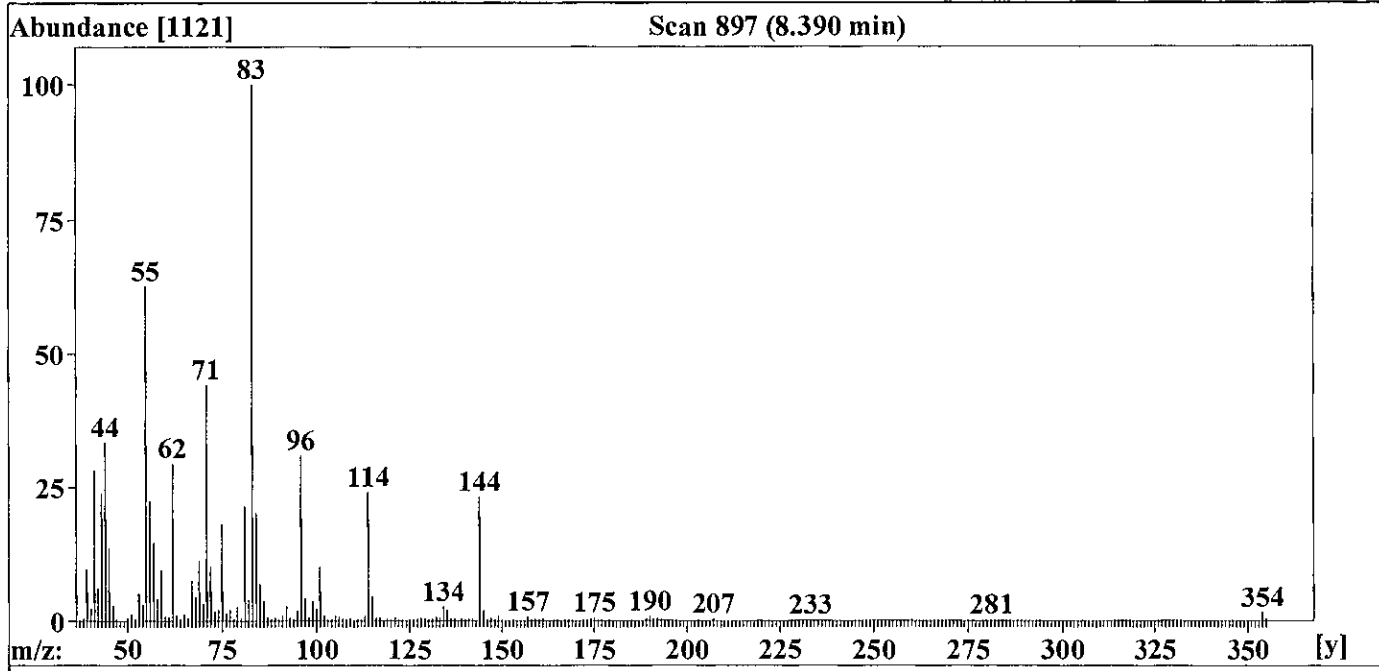
File :D:\DATA\2018\AND\AND_20180924B_TS\2018-09-24-1128.b\02_Cutoff
... fBL.D
Operator : Tanuja Sathiraj
Instrument : GC-MS 4
Acquired : 24 Sep 2018 12:05 using AcqMethod QCONFIRM.M
Sample Name: Cutoff Cal Blood
Misc Info :

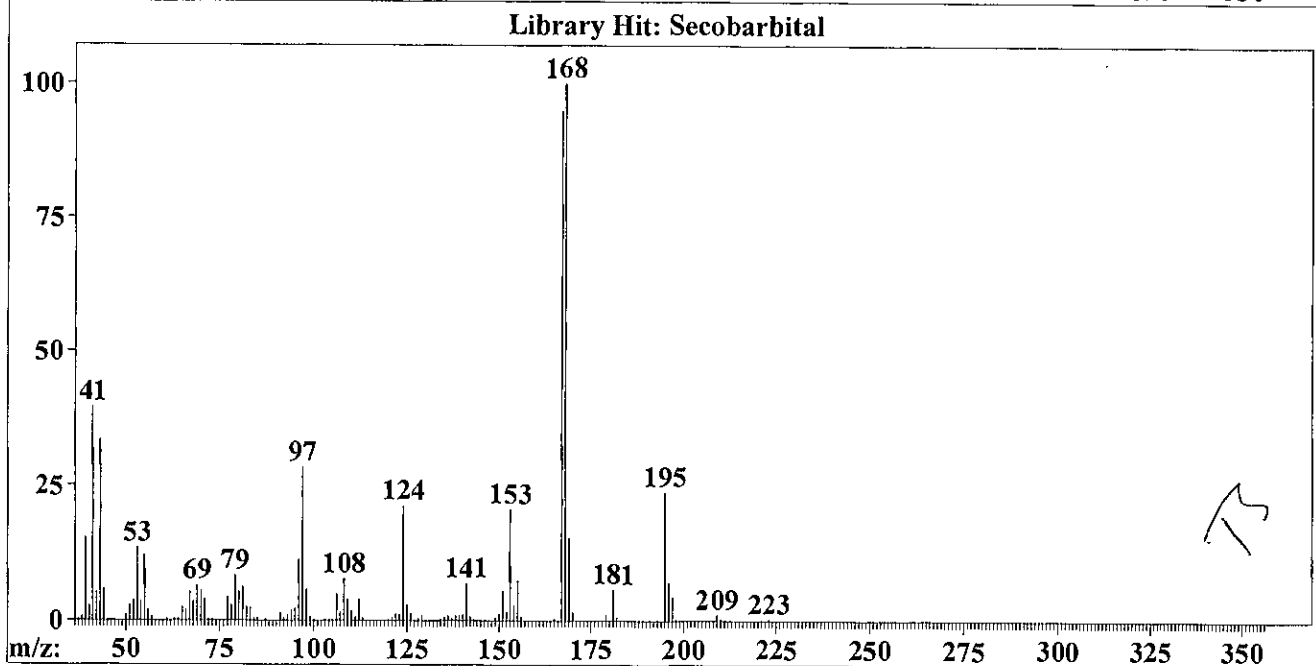
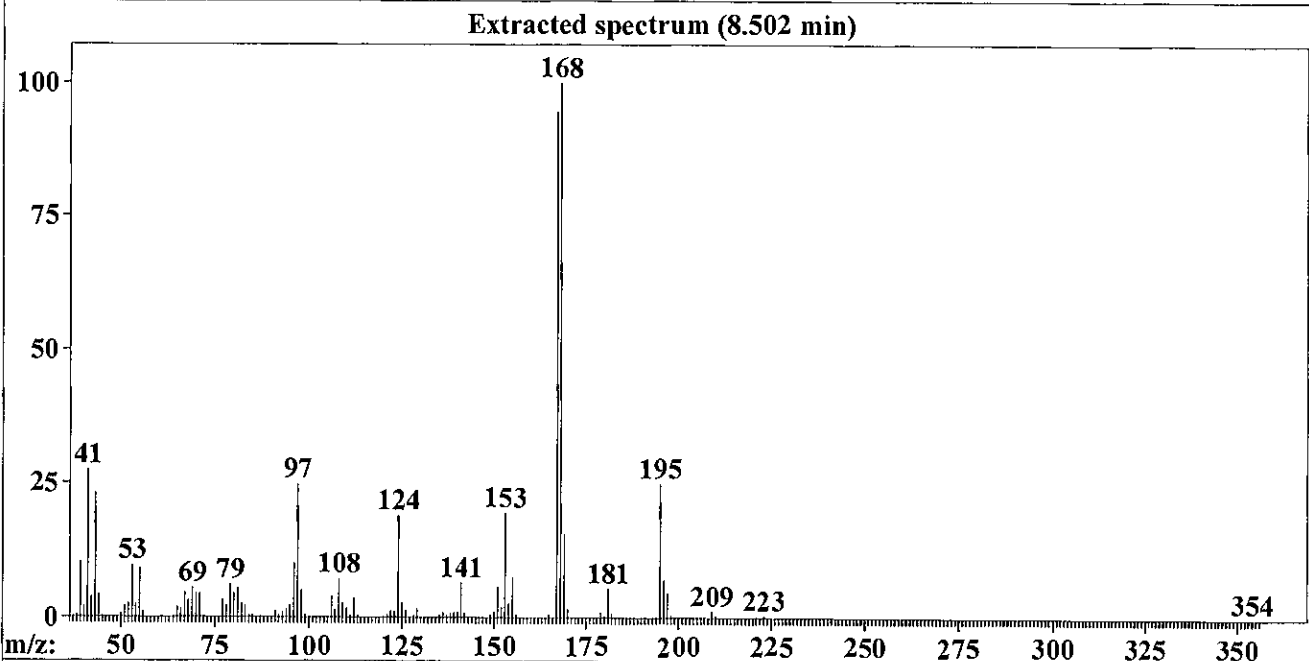
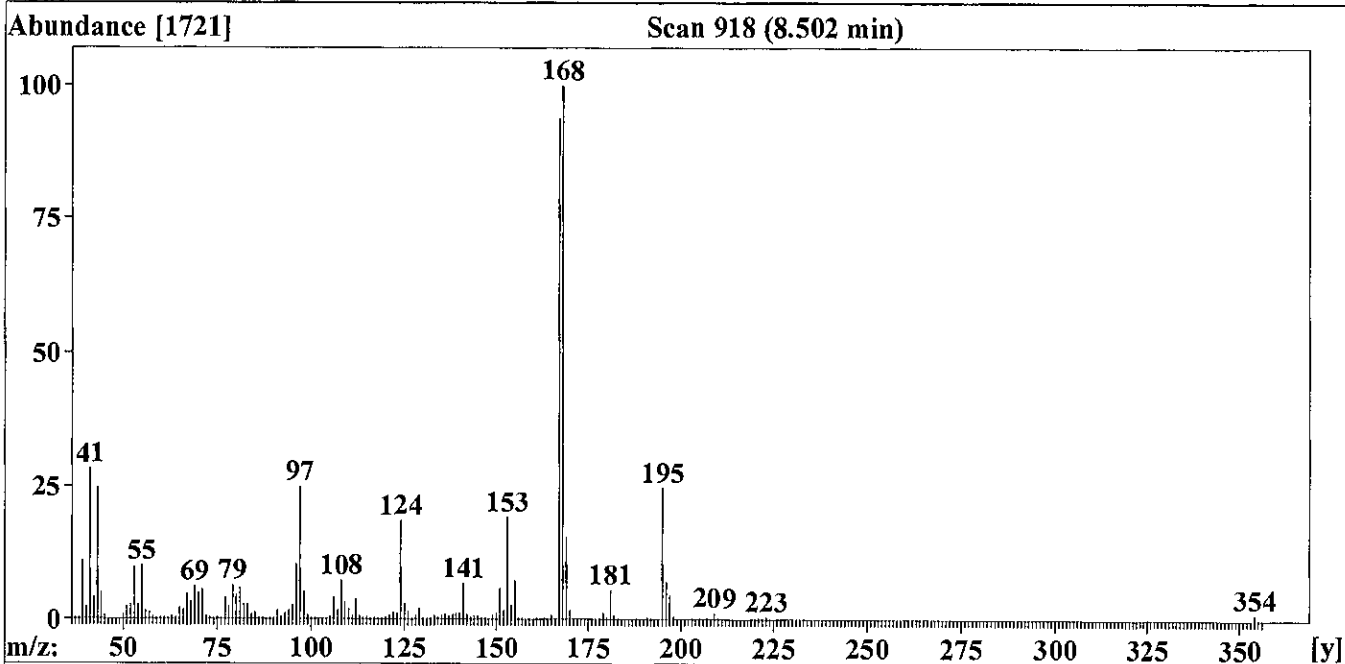


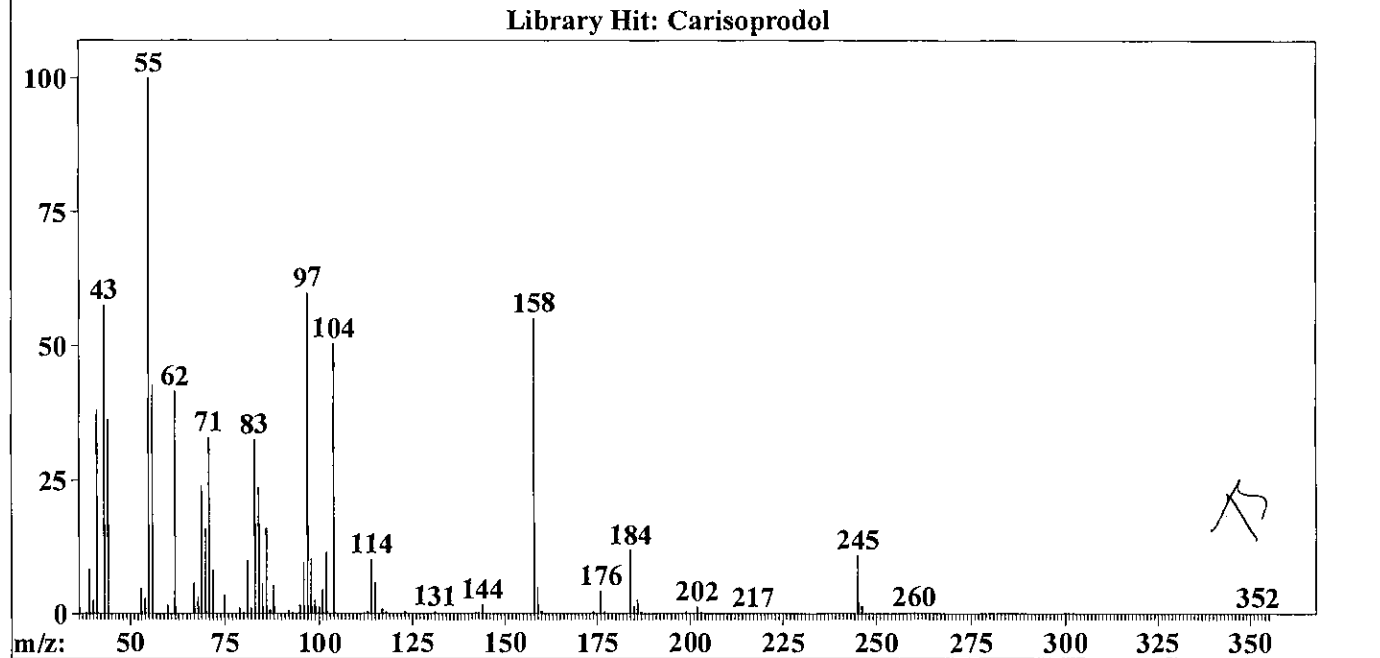
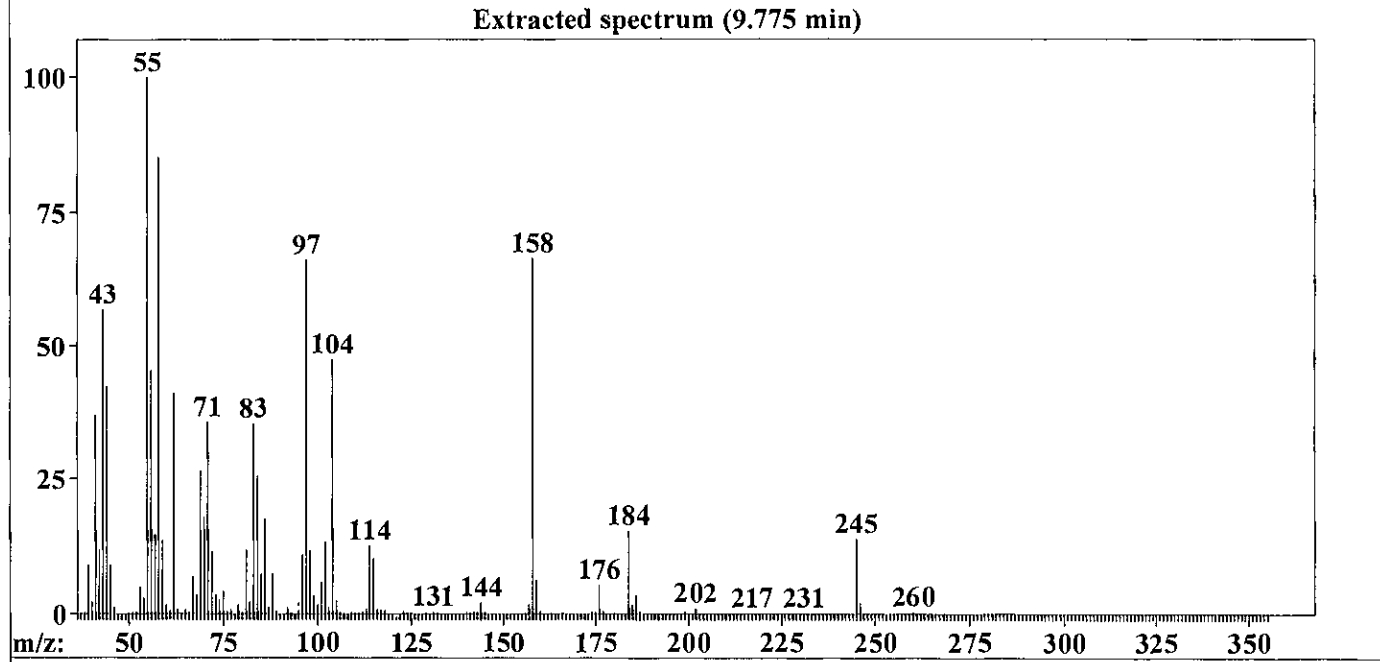
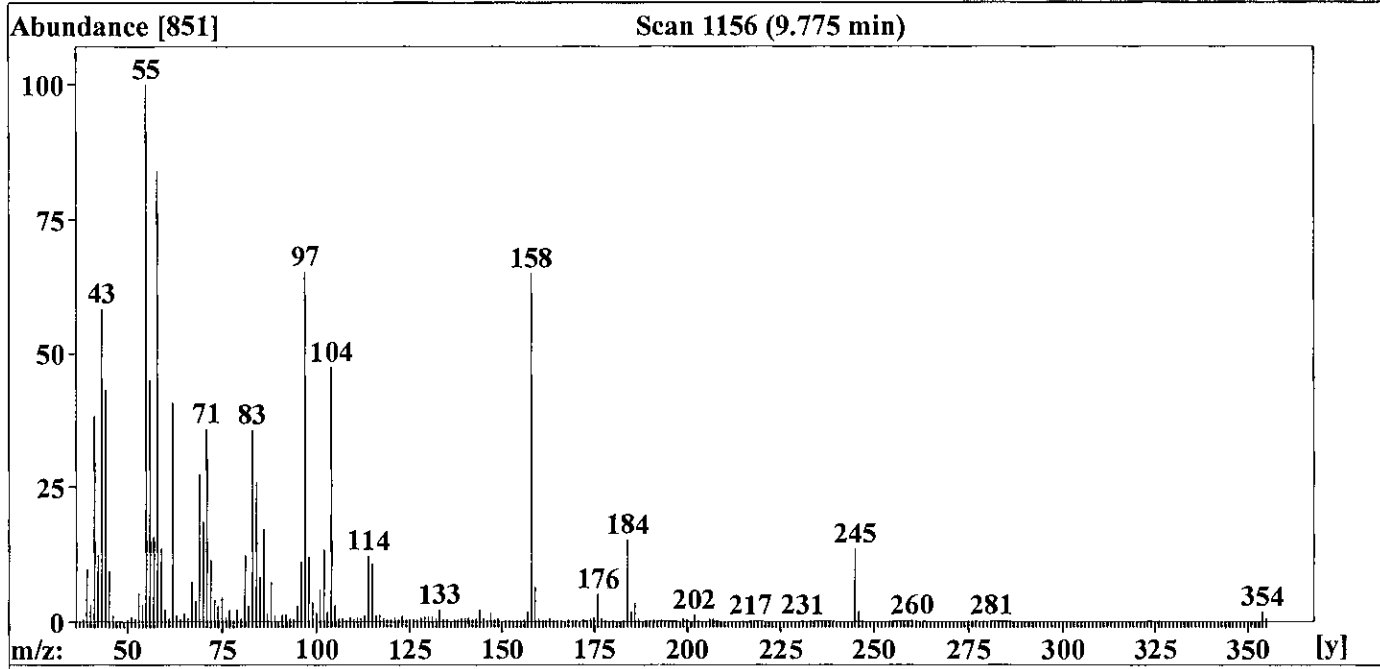
✓

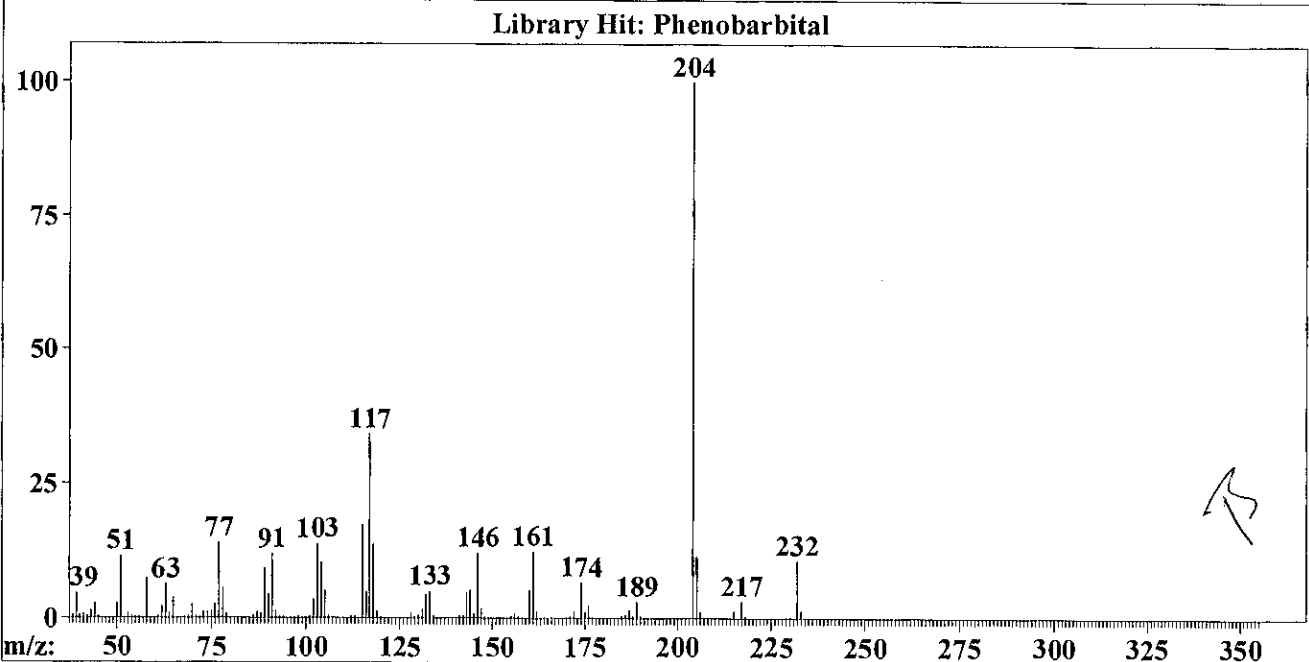
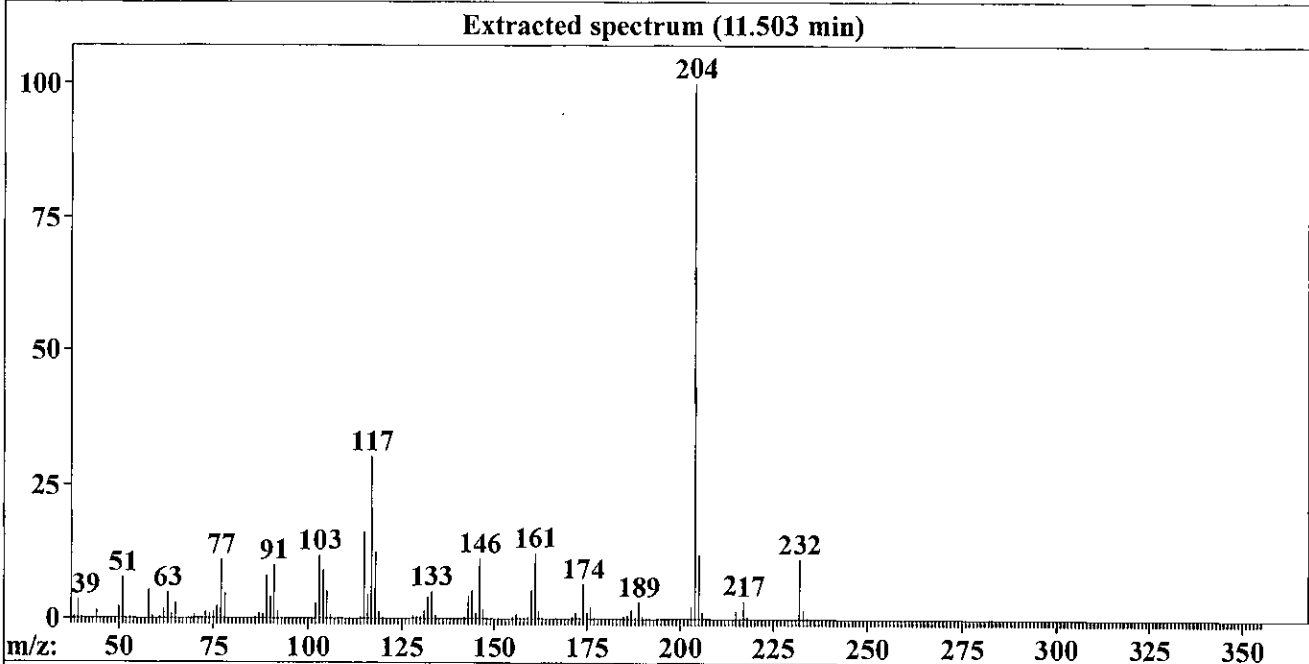
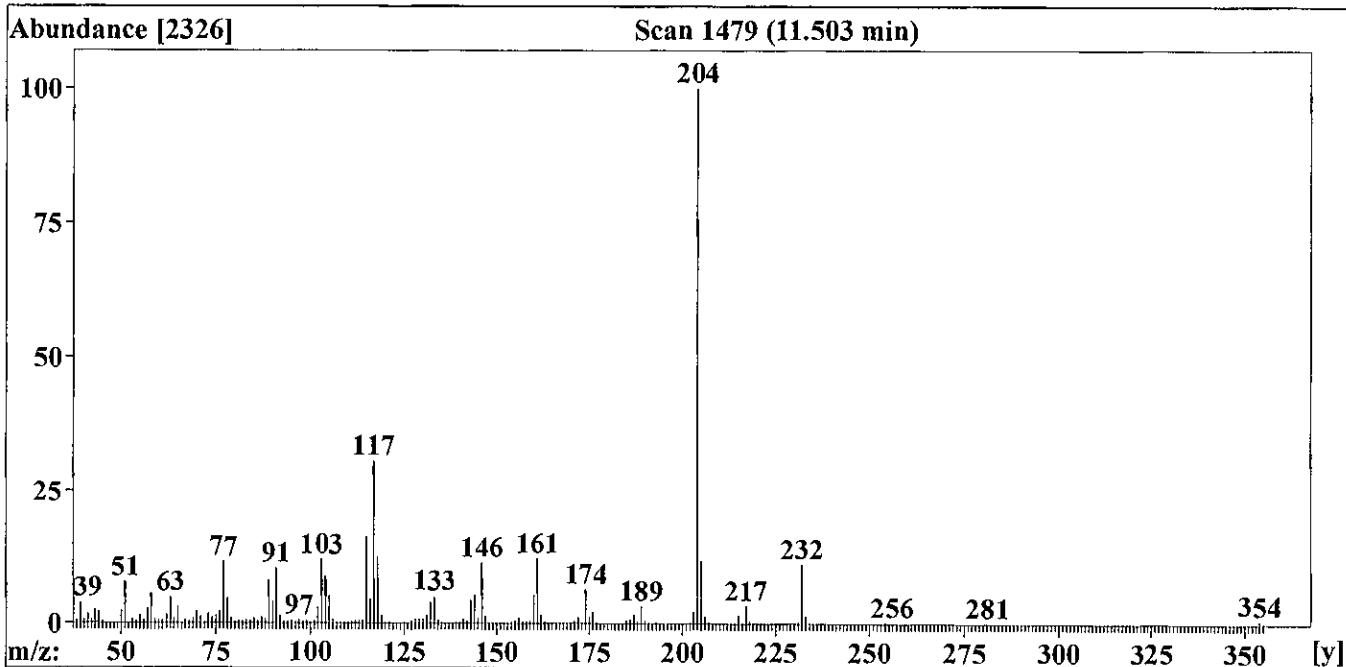












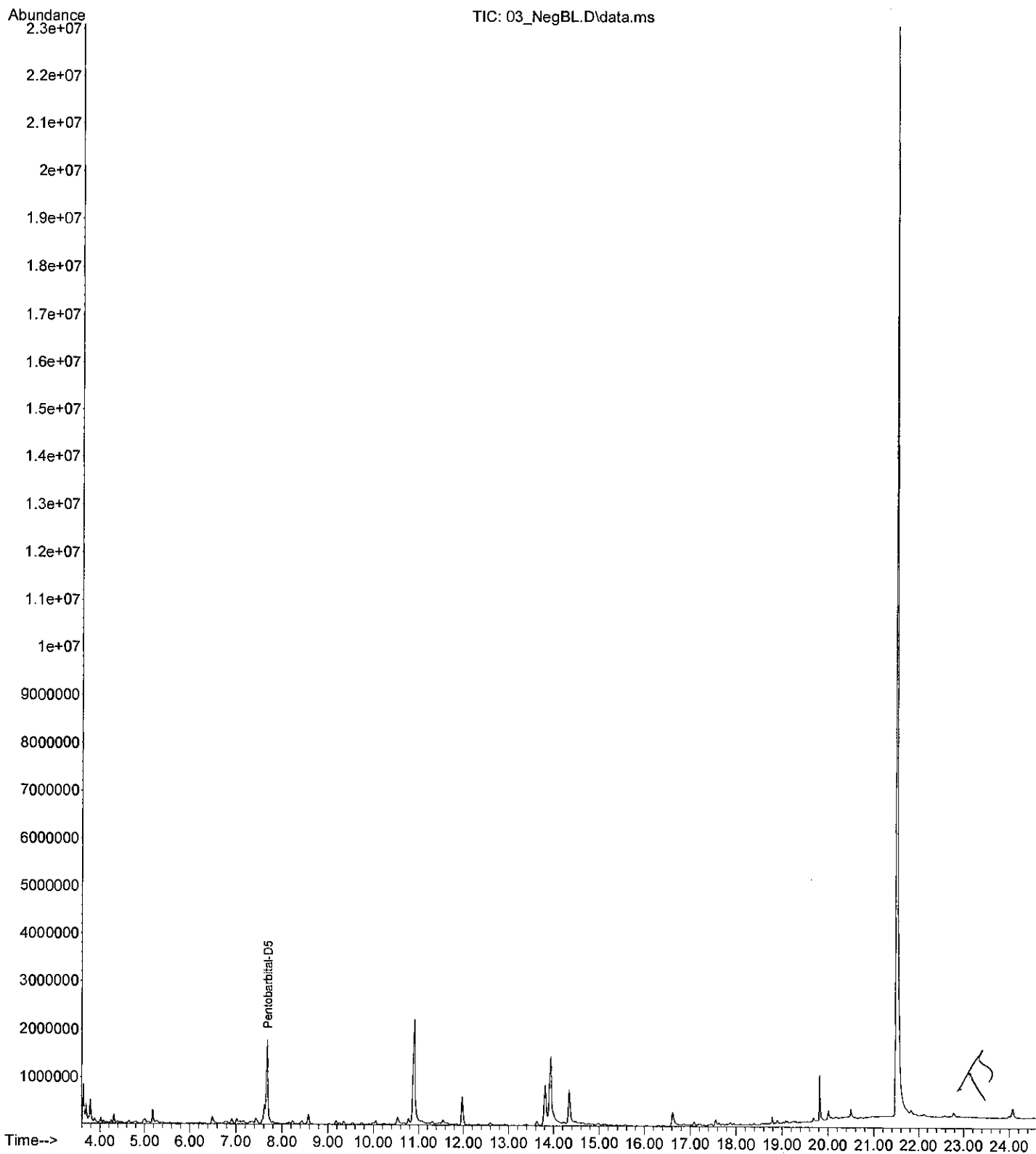
MSD Deconvolution Report
 Sample Name: Neg QC Blood
 Data File: D:\DATA\2018\AND\AND_20180924B_TS\2018-09-24-1128.b\03_NegBL.D
 Date/Time: 2:53:56 PM Monday, September 24, 2018

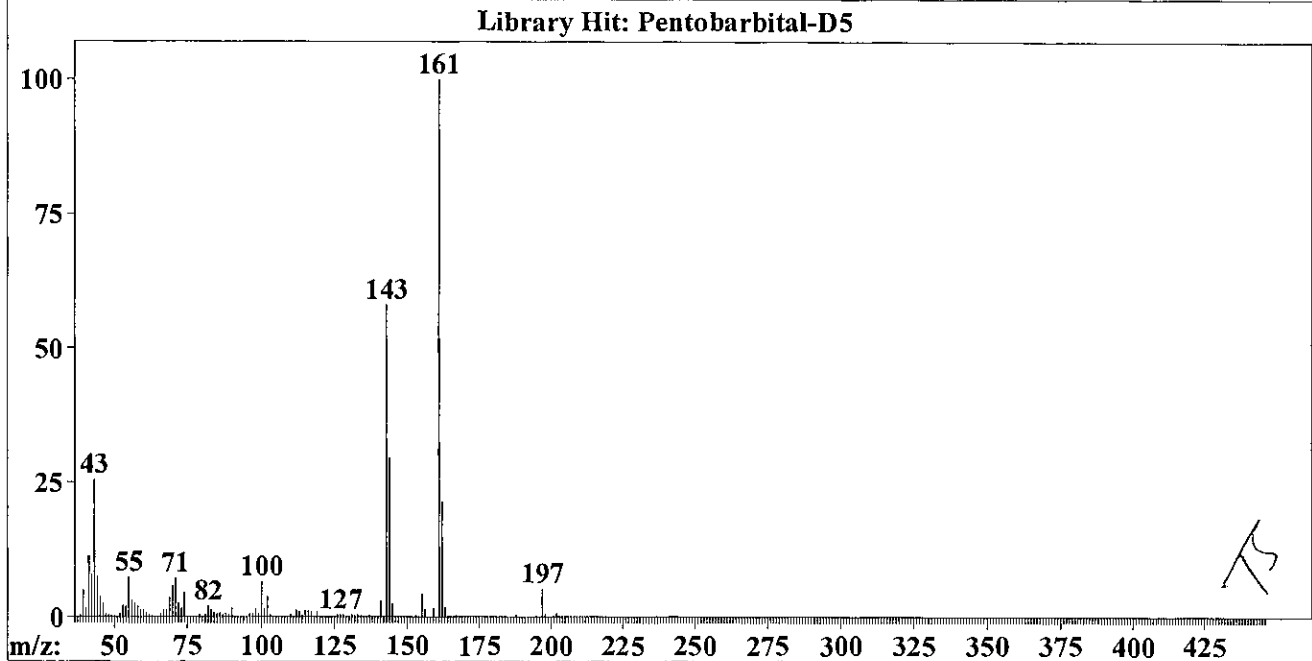
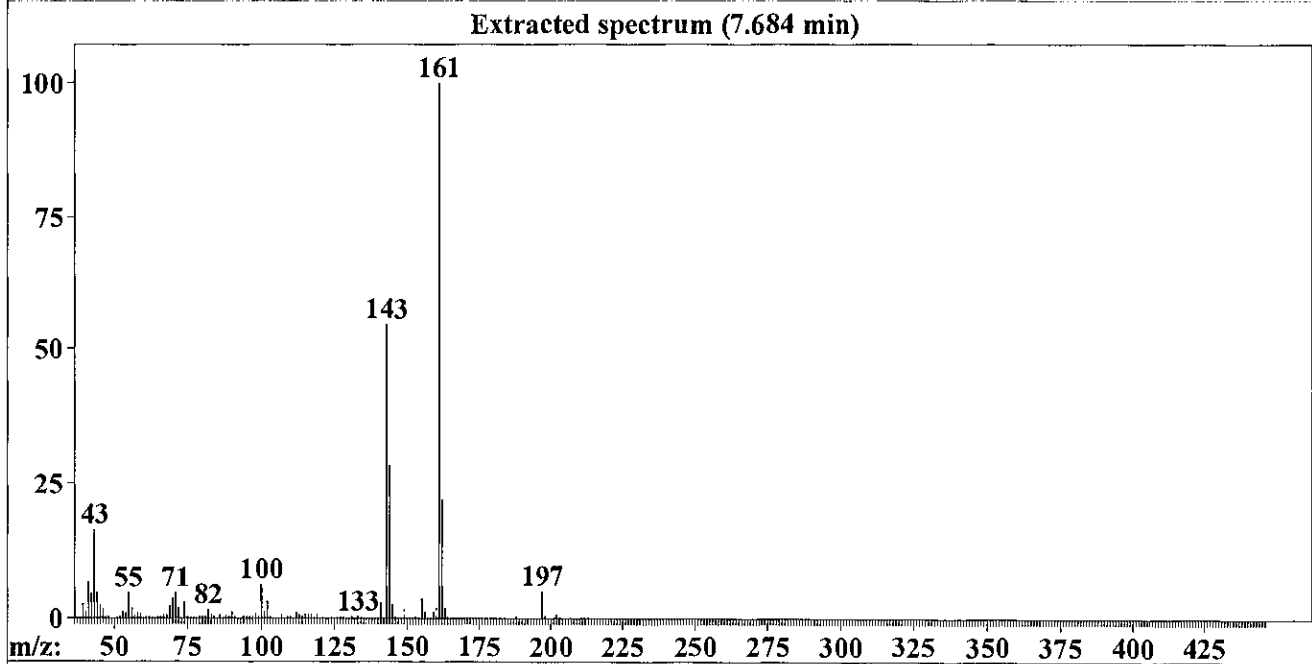
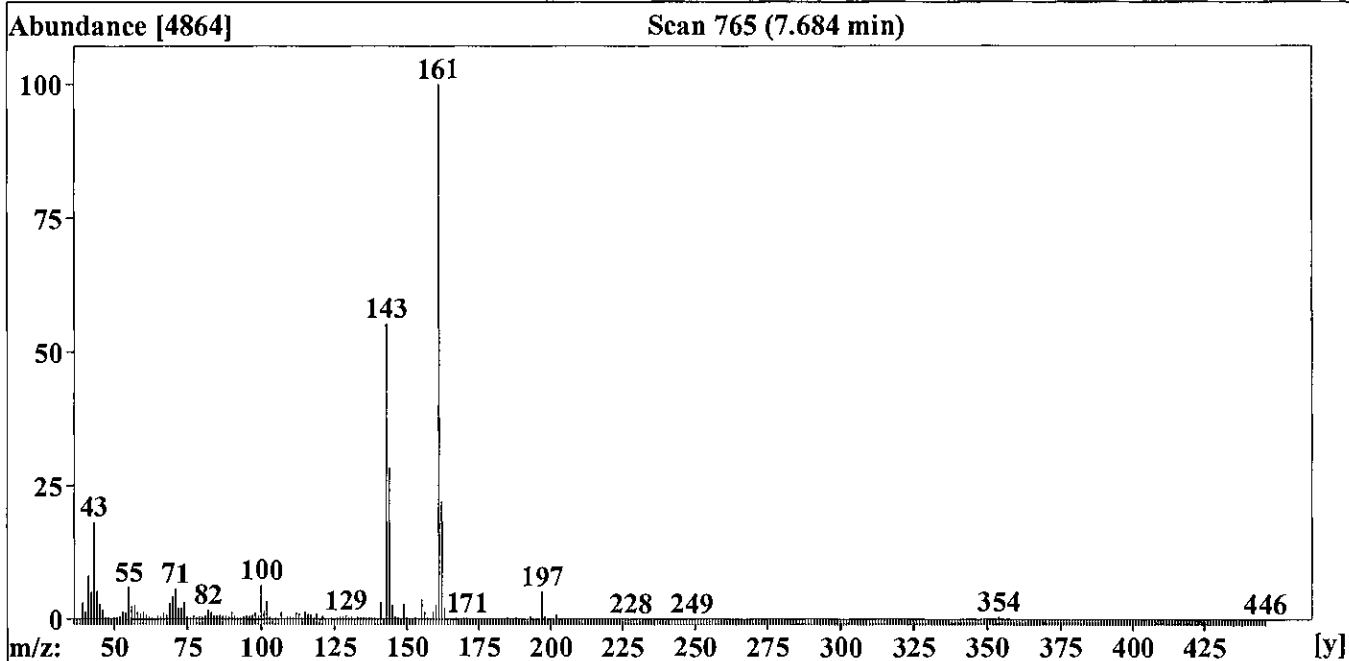
Adjacent Peak Subtraction = 1
 Resolution = Medium
 Sensitivity = High
 Shape Requirements = Medium

The NIST library was searched for the components that were found in the AMDIS target library.

R.T.	Cas #	Compound Name	Amount (ng/mL)		AMDIS		NIST	
			Chem station	AMDIS	Match	R.T. Diff sec.	Reverse Match	Hit Num.
7.6828	52944668	Pentobarbital-D5			99 ✓	1.0		
7.6828	3189488	2-Indolizine, carboxylic acid					63	1
7.684		Pentobarbital-D5	1					

File :D:\DATA\2018\AND\AND_20180924B_TS\2018-09-24-1128.b\03_NegBL
... .D
Operator : Tanuja Sathiraj
Instrument : GC-MS 4
Acquired : 24 Sep 2018 12:37 using AcqMethod QCONFIRM.M
Sample Name: Neg QC Blood
Misc Info :





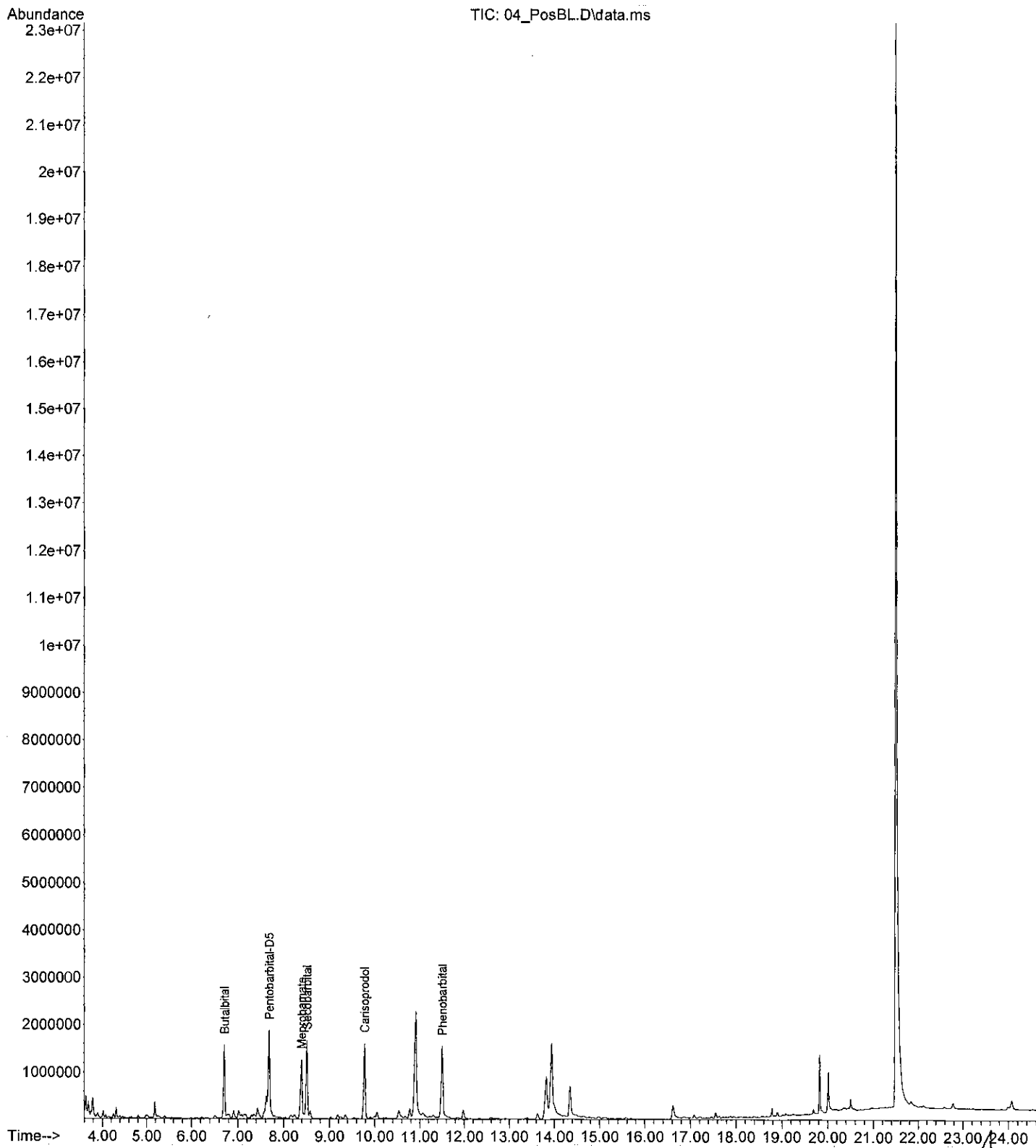
MSD Deconvolution Report
 Sample Name: Pos QC Blood
 Data File: D:\DATA\2018\AND\AND_20180924B_TS\2018-09-24-1128.b\04_PosBL.D
 Date/Time: 3:01:13 PM Monday, September 24, 2018

Adjacent Peak Subtraction = 1
 Resolution = Medium
 Sensitivity = High
 Shape Requirements = Medium

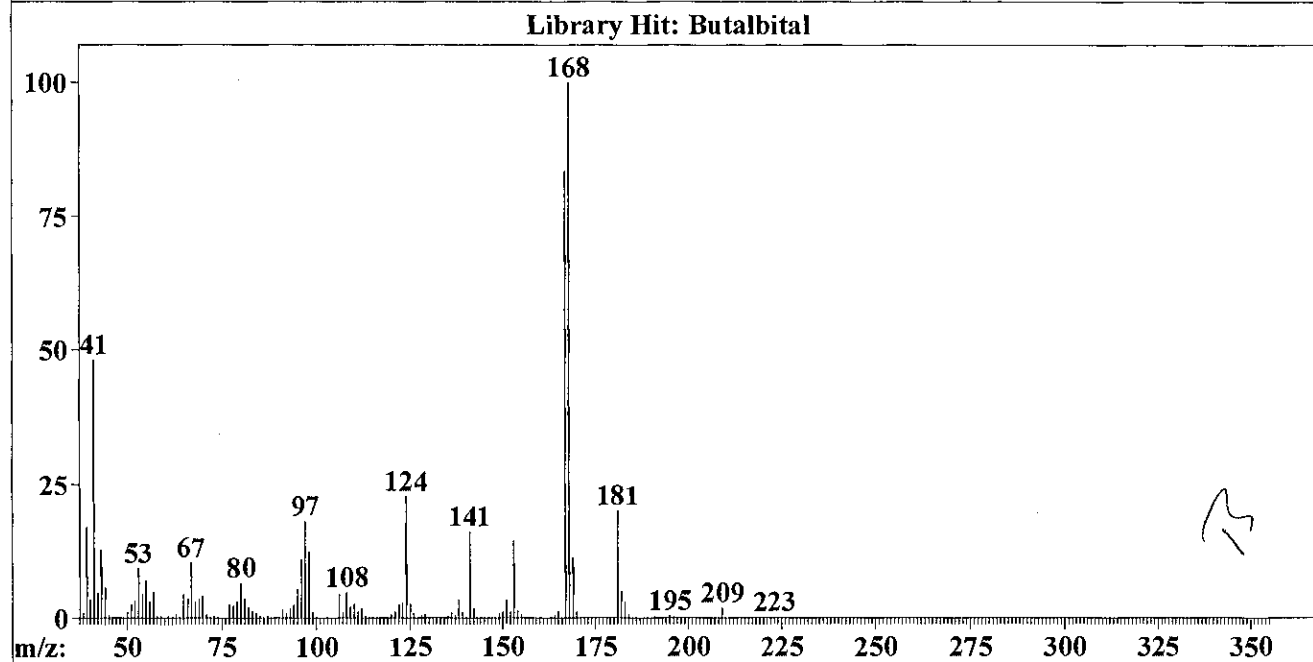
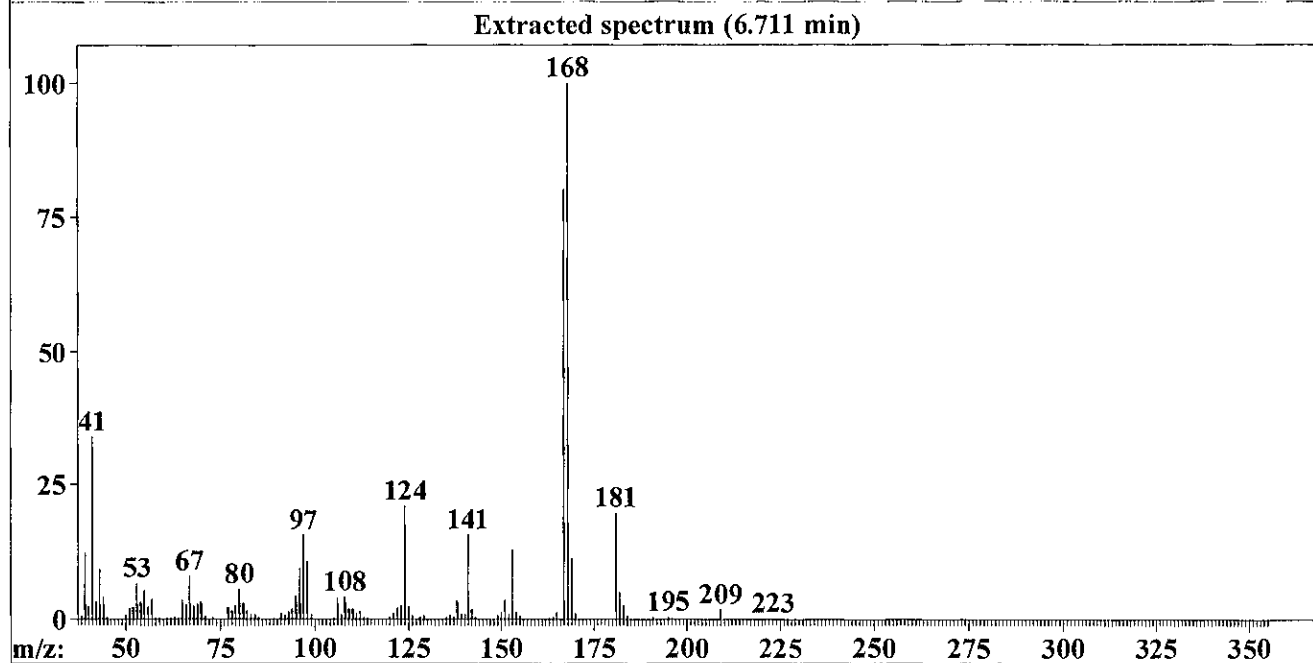
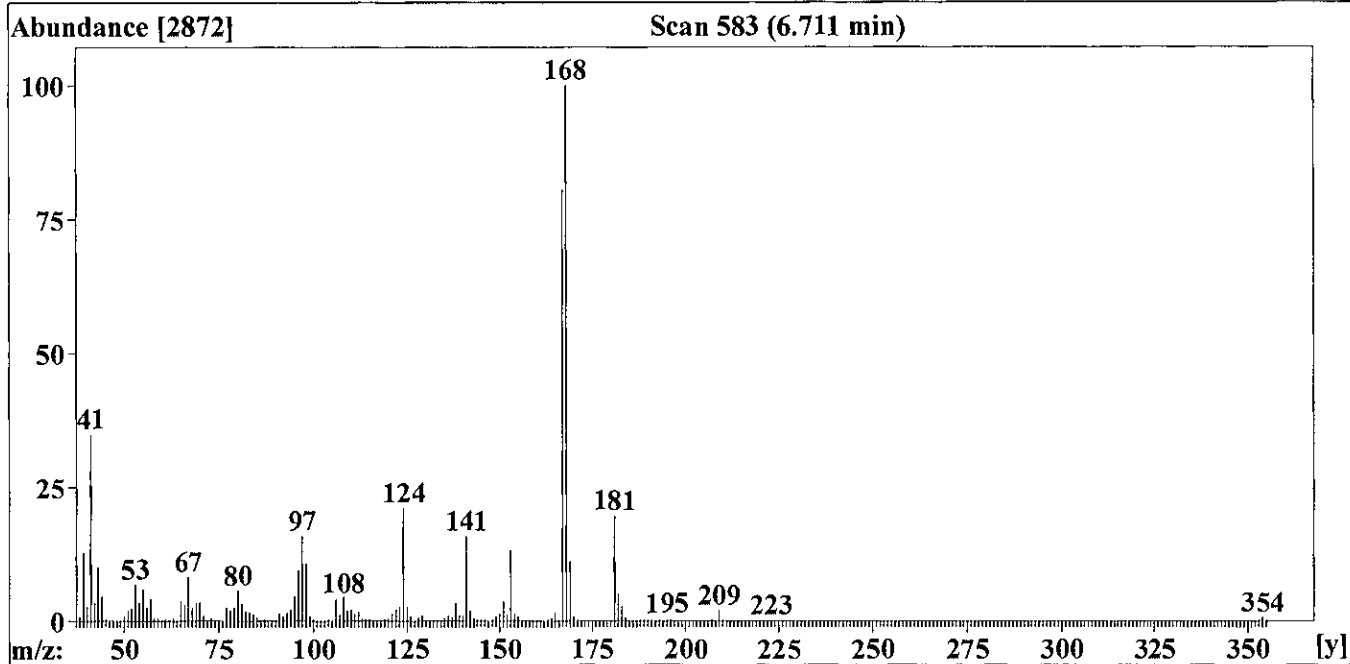
The NIST library was searched for the components that were found in the AMDIS target library.

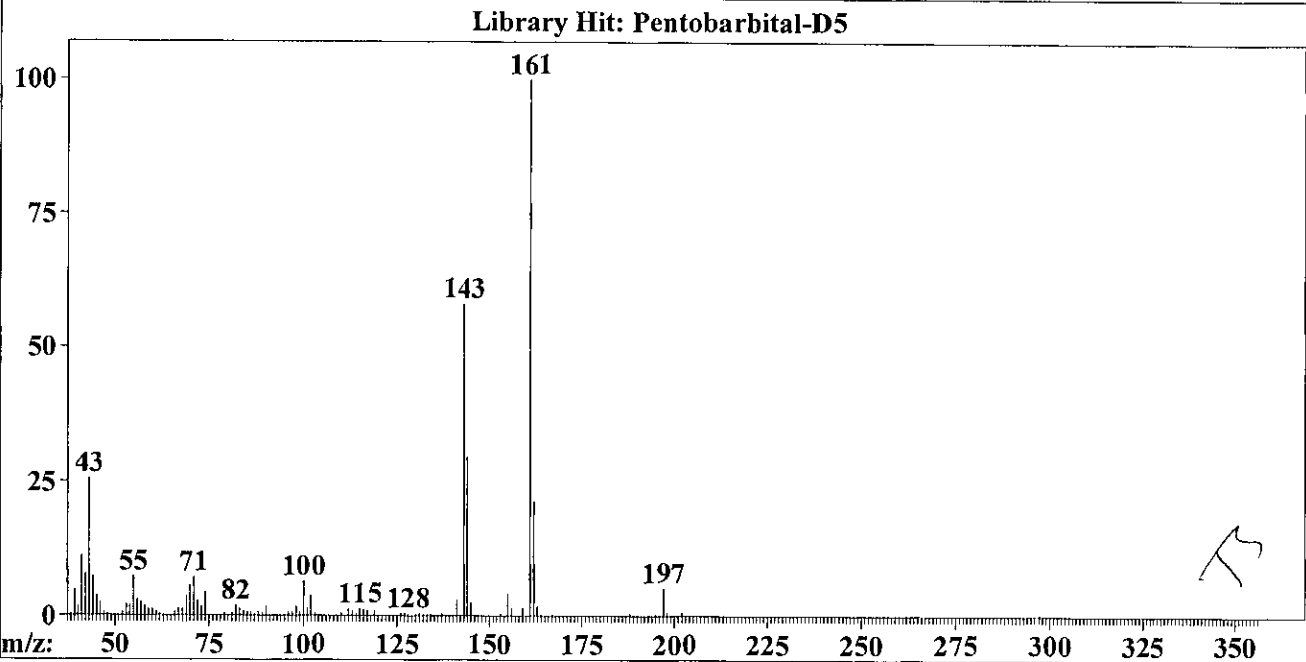
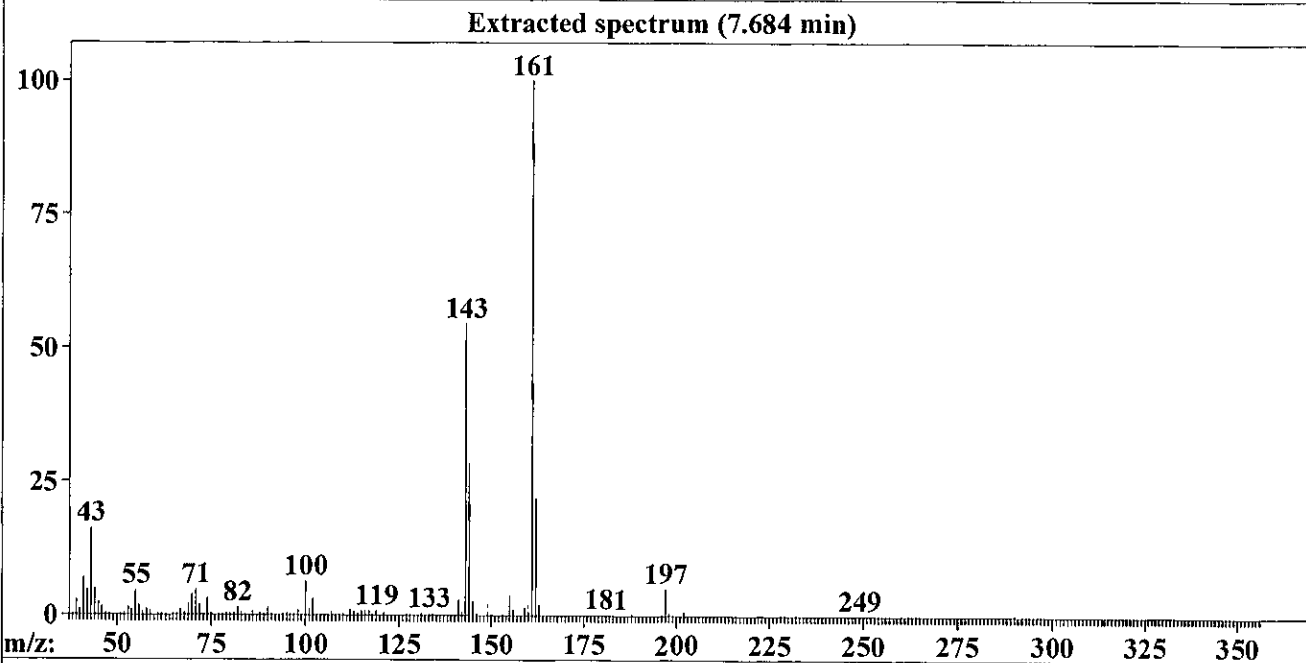
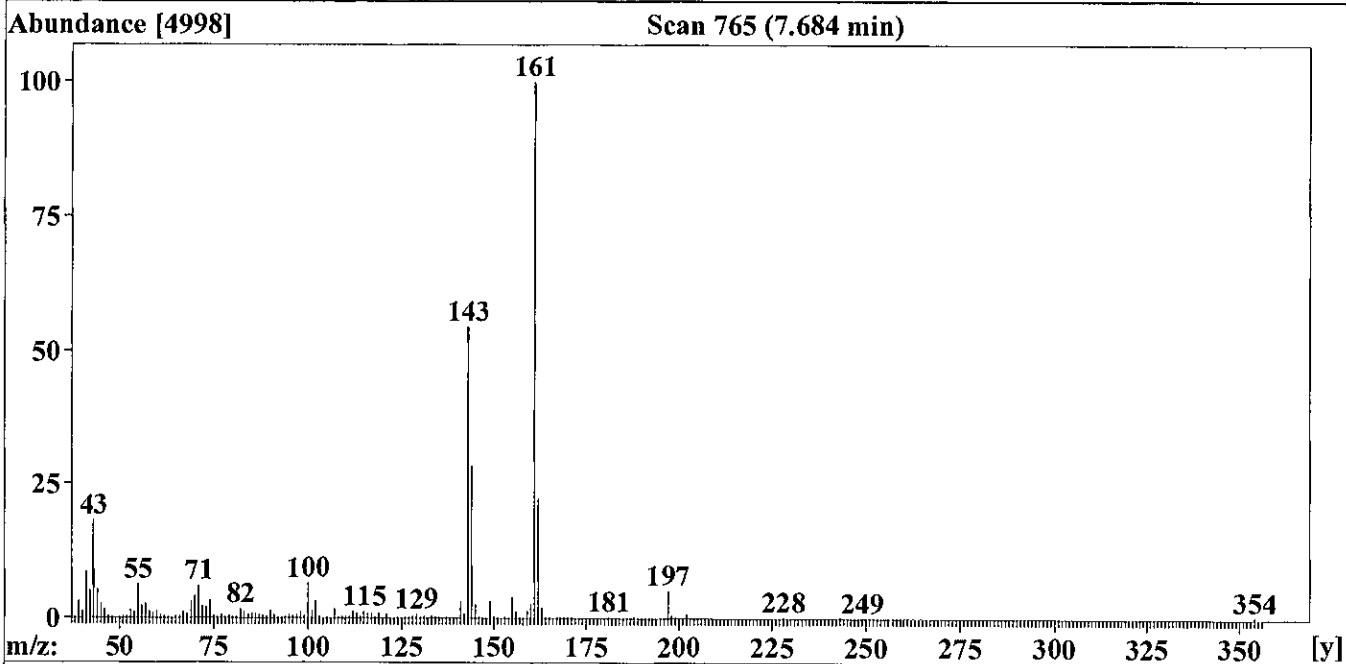
R.T.	Cas #	Compound Name	Amount (ng/mL)		AMDIS		NIST	
			Chem station	AMDIS	Match	R.T. Diff sec.	Reverse Match	Hit Num.
6.7122	77269	Butalbital			100 ✓	0.9	95	1
7.6862	52944668	Pentobarbital-D5			99 ✓	1.2		
7.6862	3189488	2-Indolizine, carboxylic acid					63	1
8.3981	57534	Meprobamate			98 ✓	1.1	93	1
8.5142	76733	Secobarbital			100 ✓	-0.0	93	1
9.7850	78444	Carisoprodol			95 ✓	-1.1	93	1
11.5105	50066	Phenobarbital			98 ✓	-0.3	95	1
6.716		Butalbital	931.57 ✓					
7.684		Pentobarbital-D5	1 ✓					
8.395		Meprobamate	1086.76 ✓					
8.513		Secobarbital	1018.6 ✓					
9.781		Carisoprodol	1066.85 ✓					
11.508		Phenobarbital	1001.34 ✓					

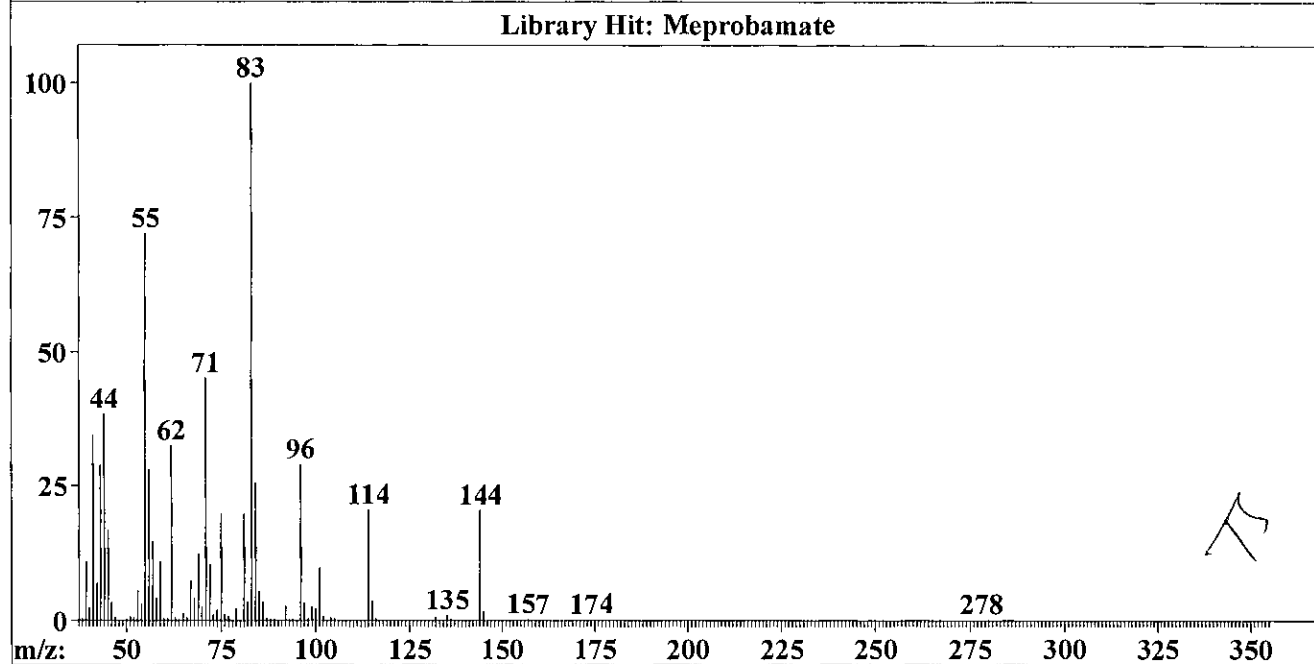
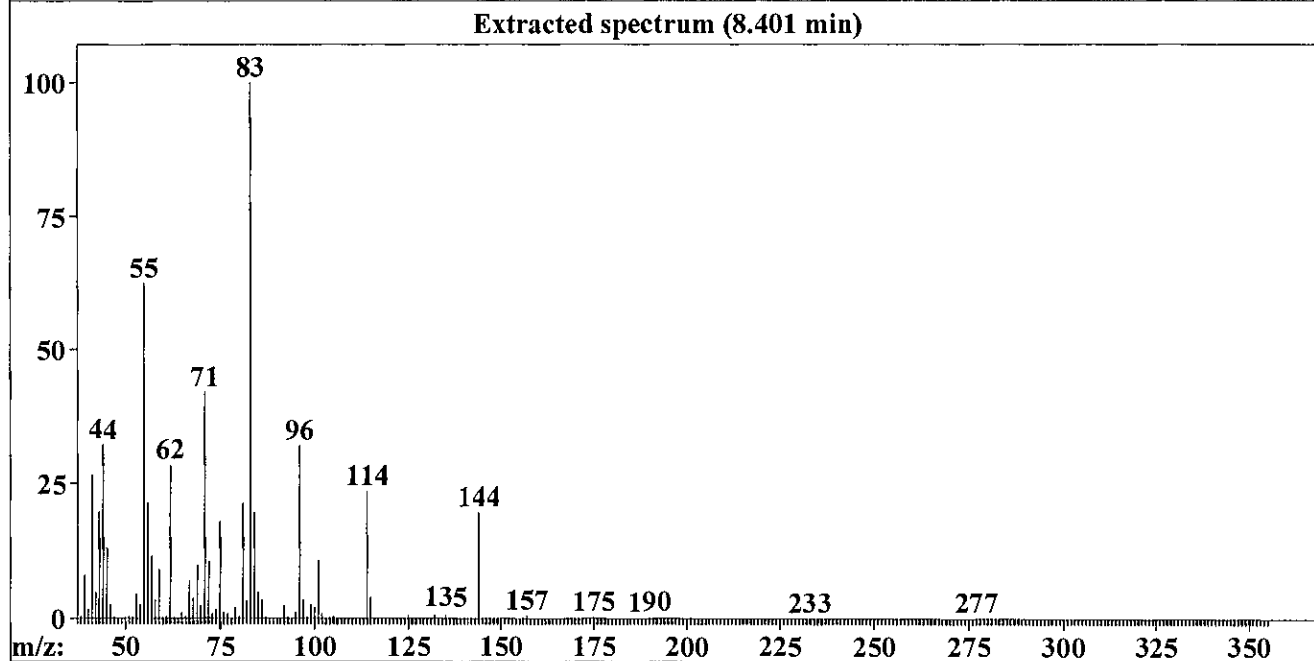
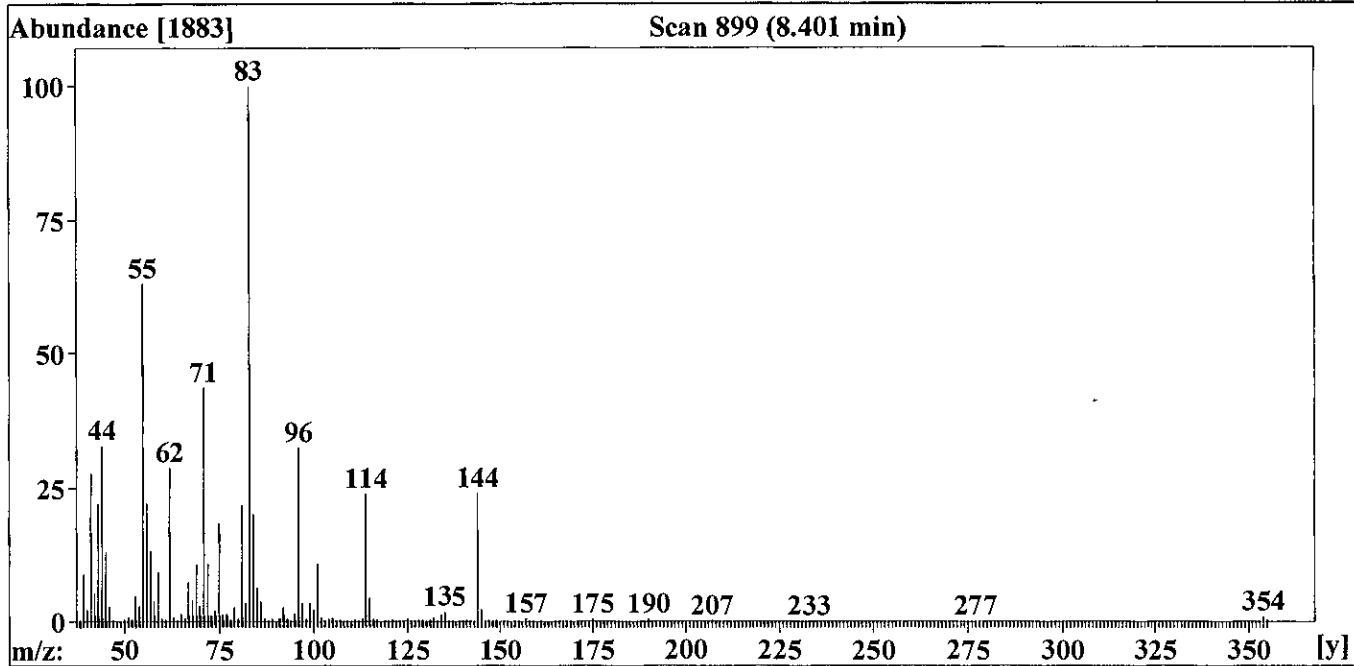
File :D:\DATA\2018\AND\AND_20180924B_TS\2018-09-24-1128.b\04_PosBL
... .D
Operator : Tanuja Sathiraj
Instrument : GC-MS 4
Acquired : 24 Sep 2018 13:10 using AcqMethod QCONFIRM.M
Sample Name: Pos QC Blood
Misc Info :

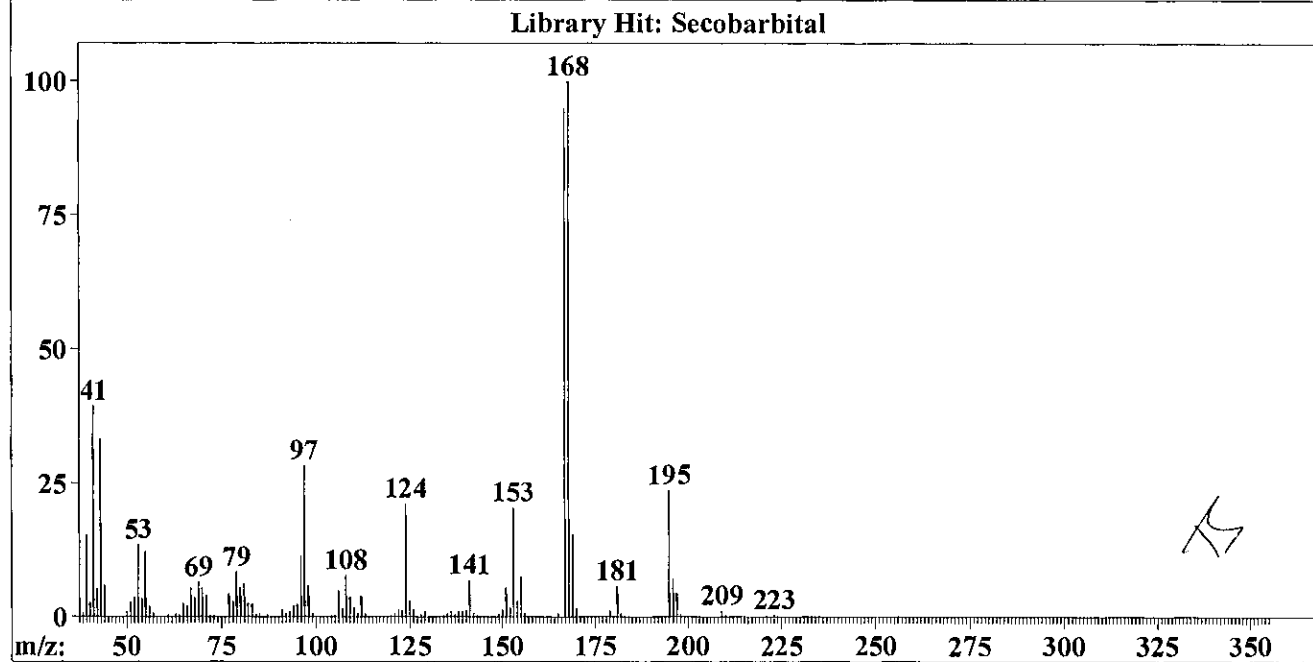
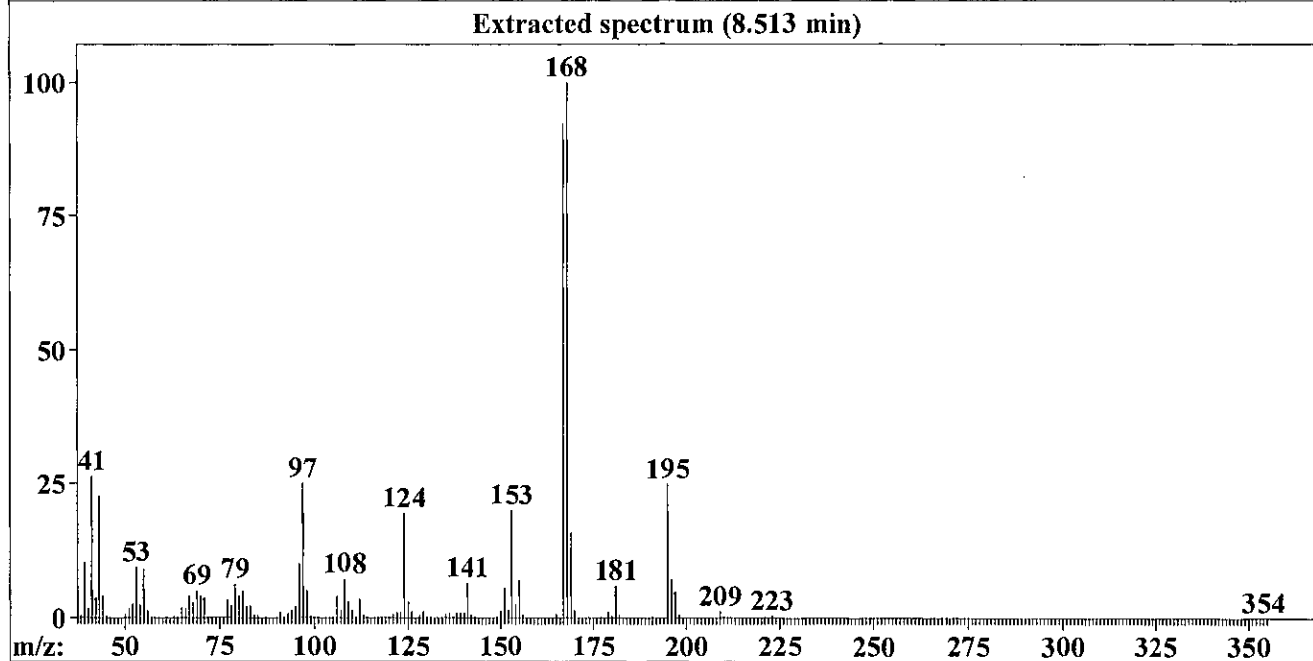
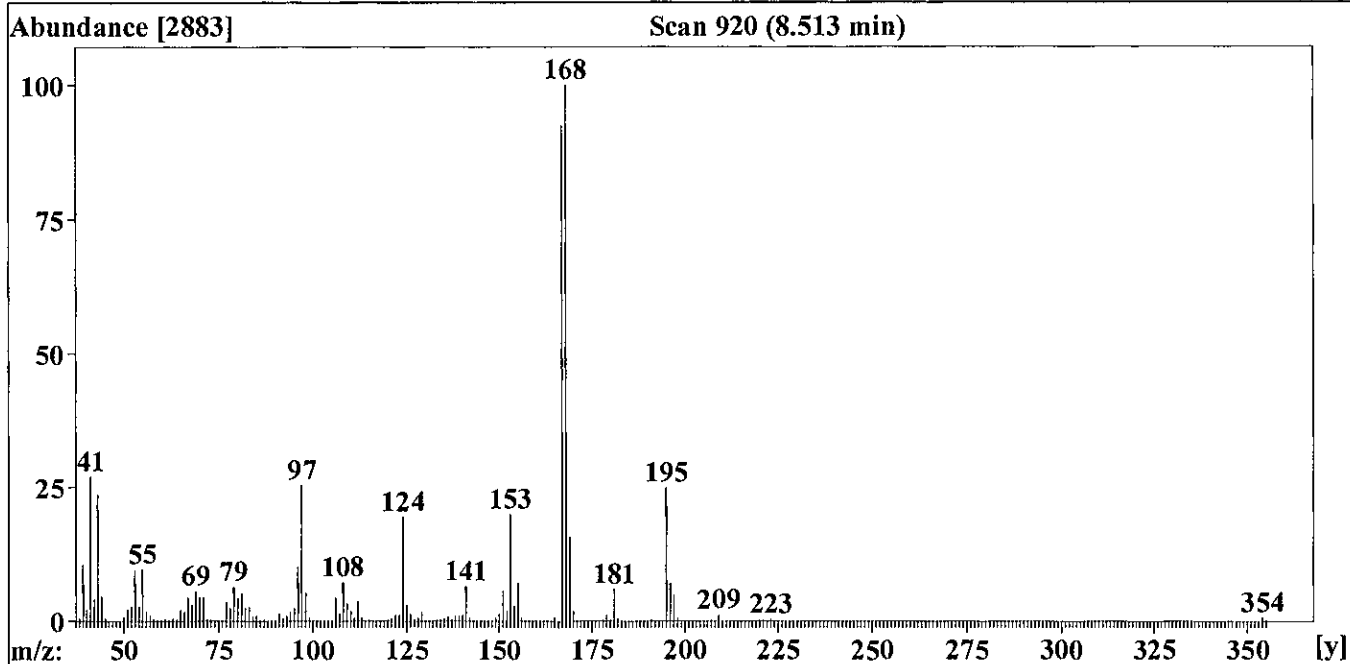


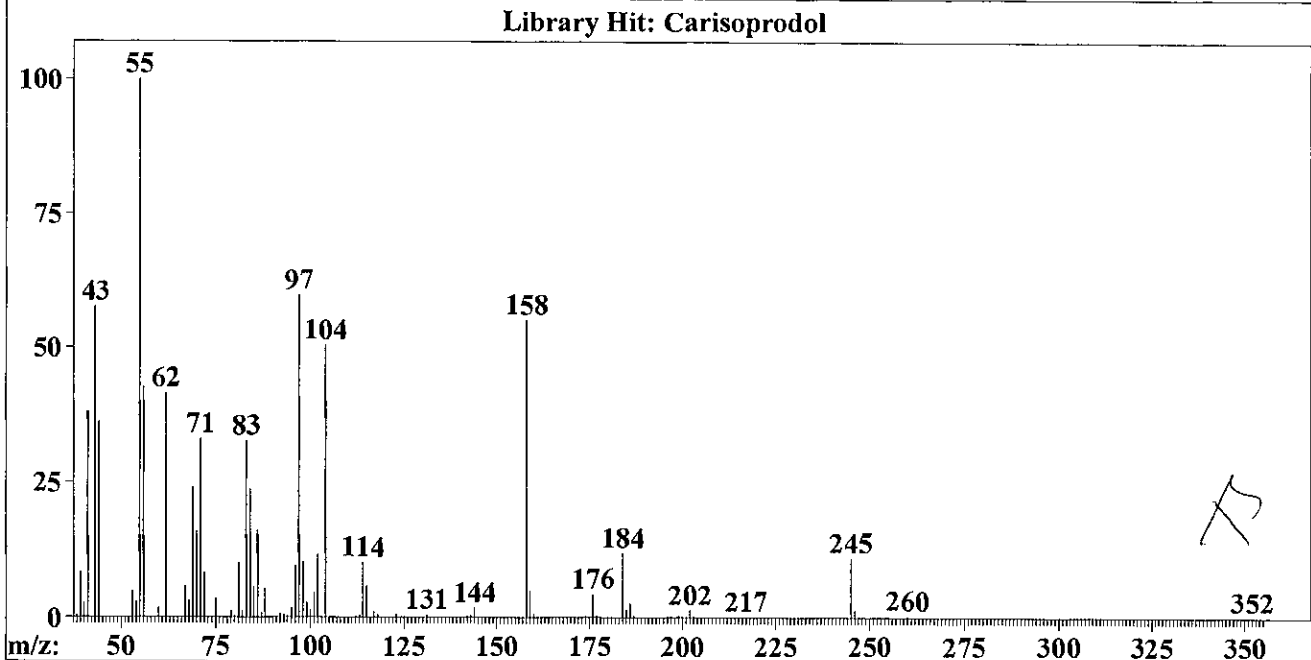
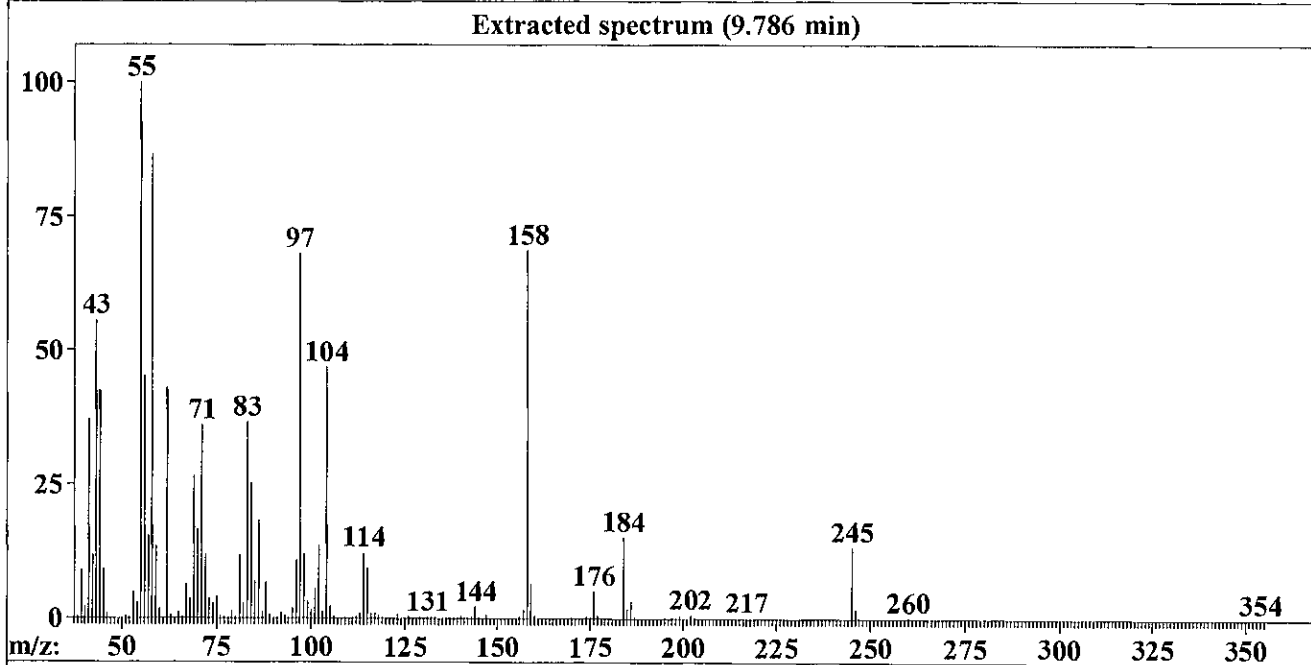
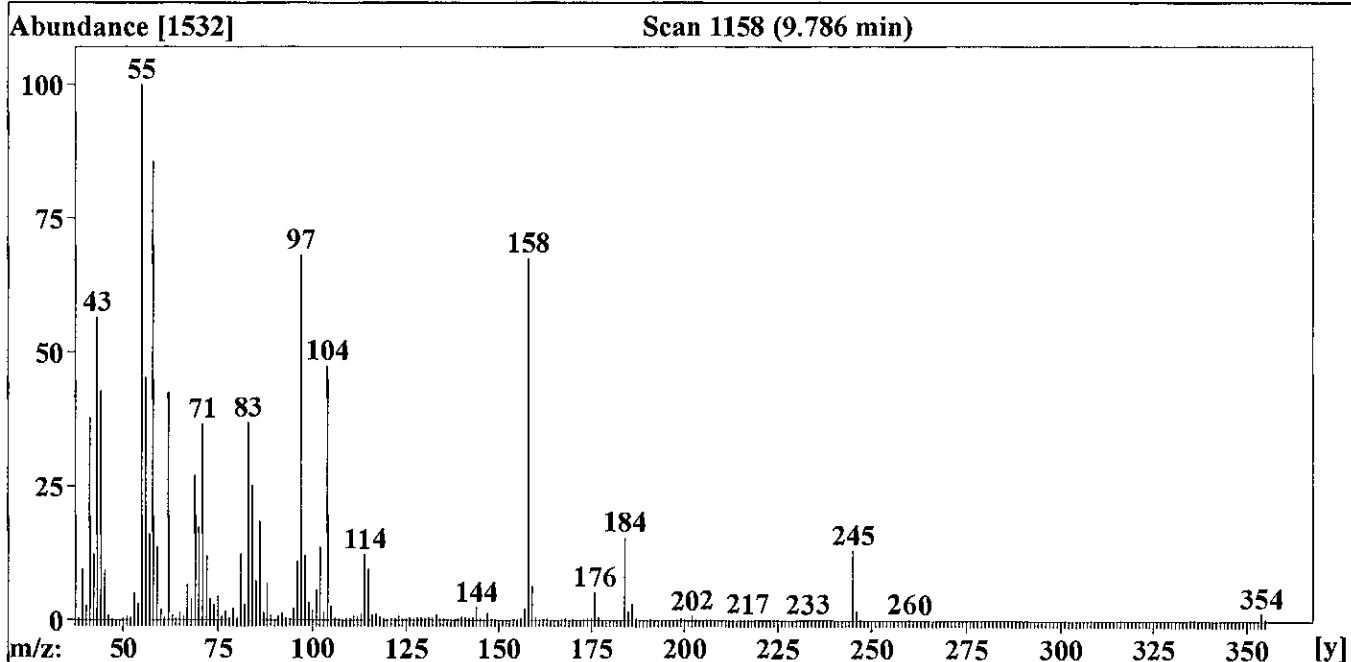
15

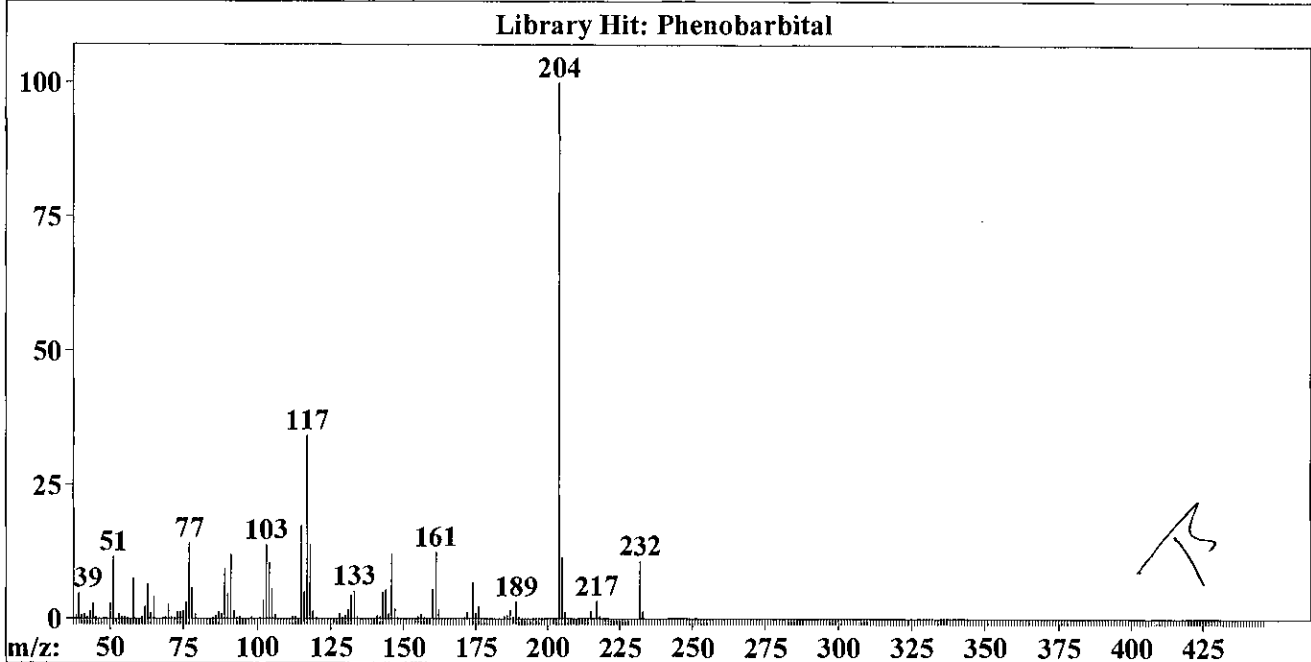
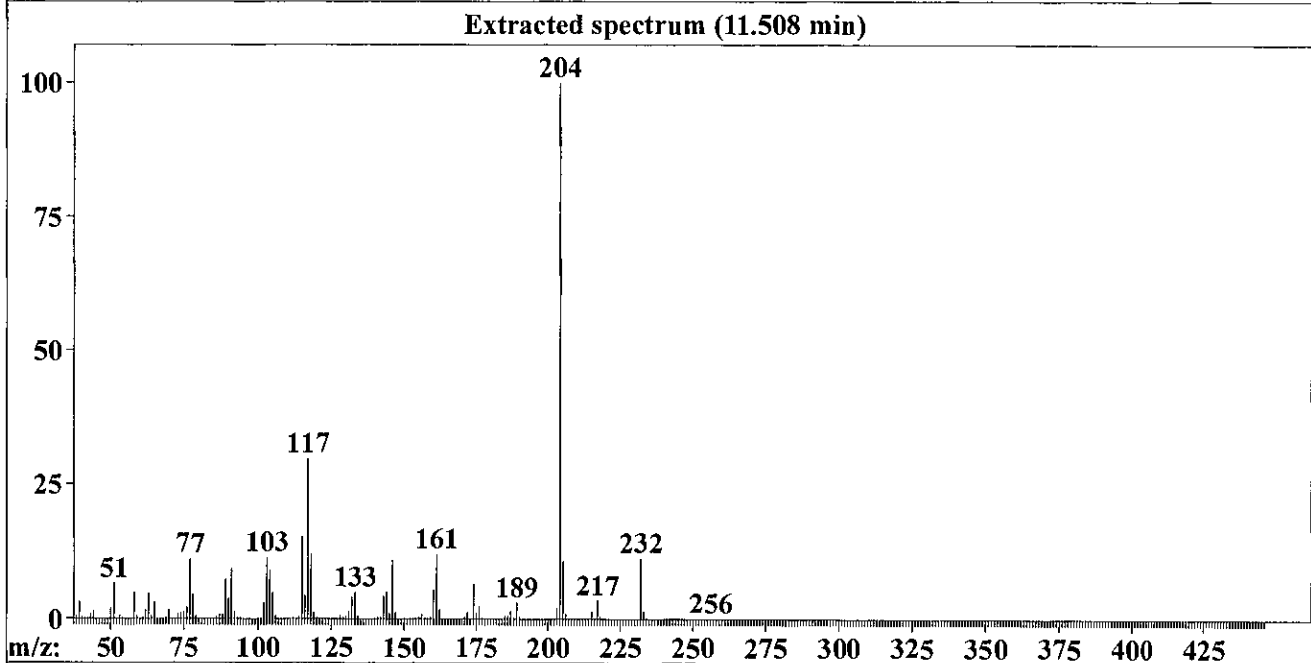
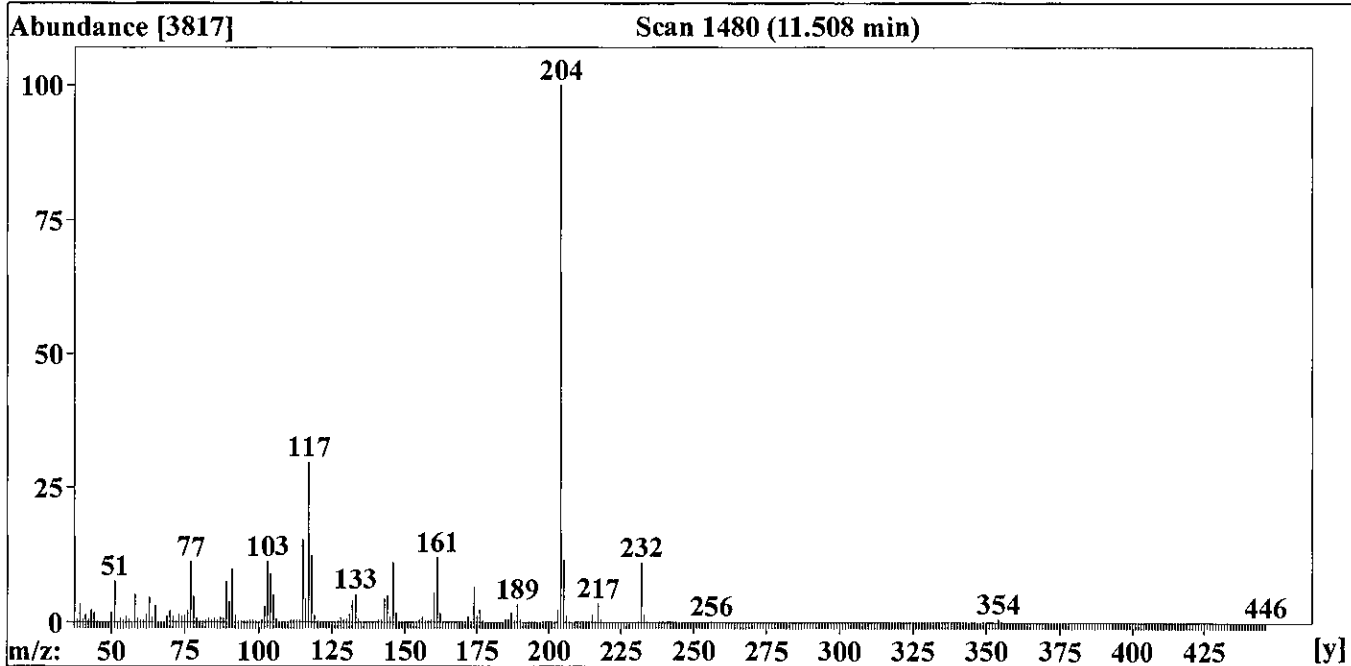












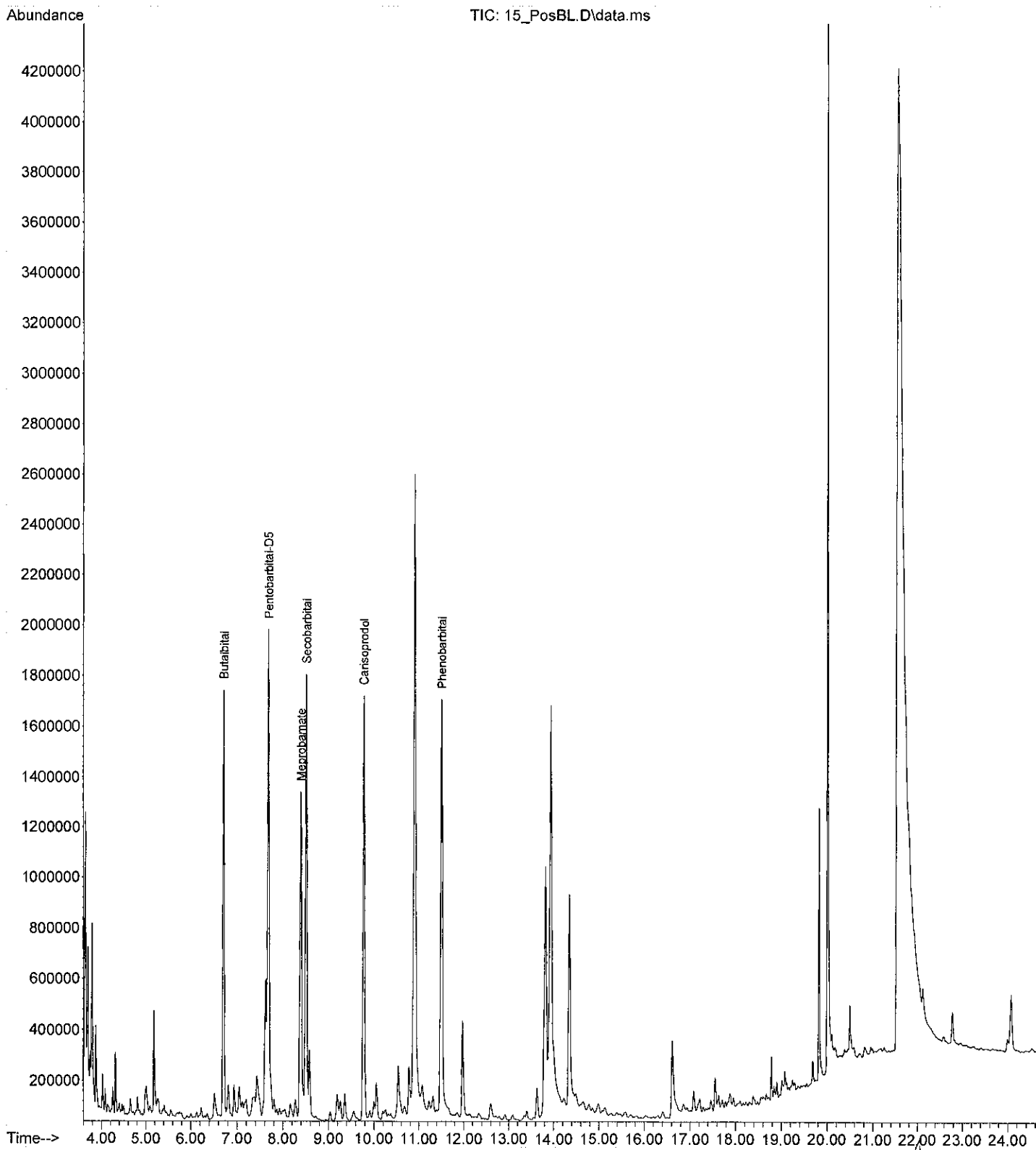
MSD Deconvolution Report
 Sample Name: Pos QC Blood
 Data File: D:\DATA\2018\AND\AND_20180924B_TSI\2018-09-24-1128.b\15_PosBL.D
 Date/Time: 7:40:09 AM Tuesday, September 25, 2018

Adjacent Peak Subtraction = 1
 Resolution = Medium
 Sensitivity = High
 Shape Requirements = Medium

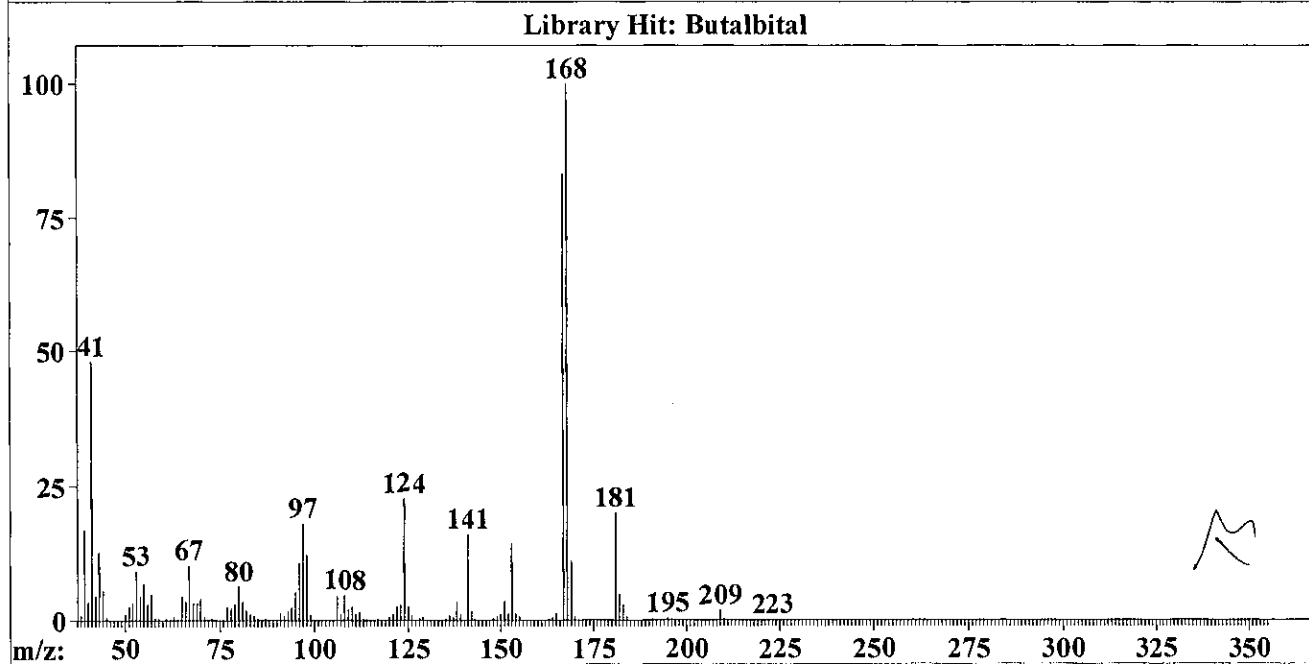
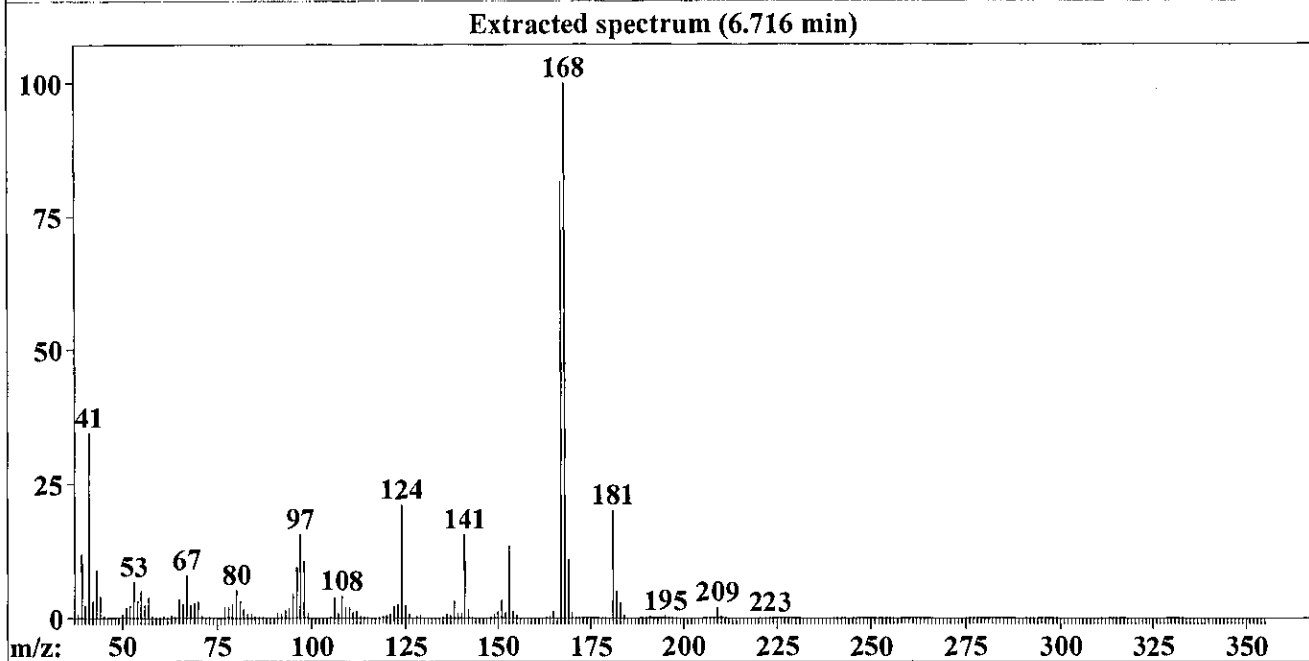
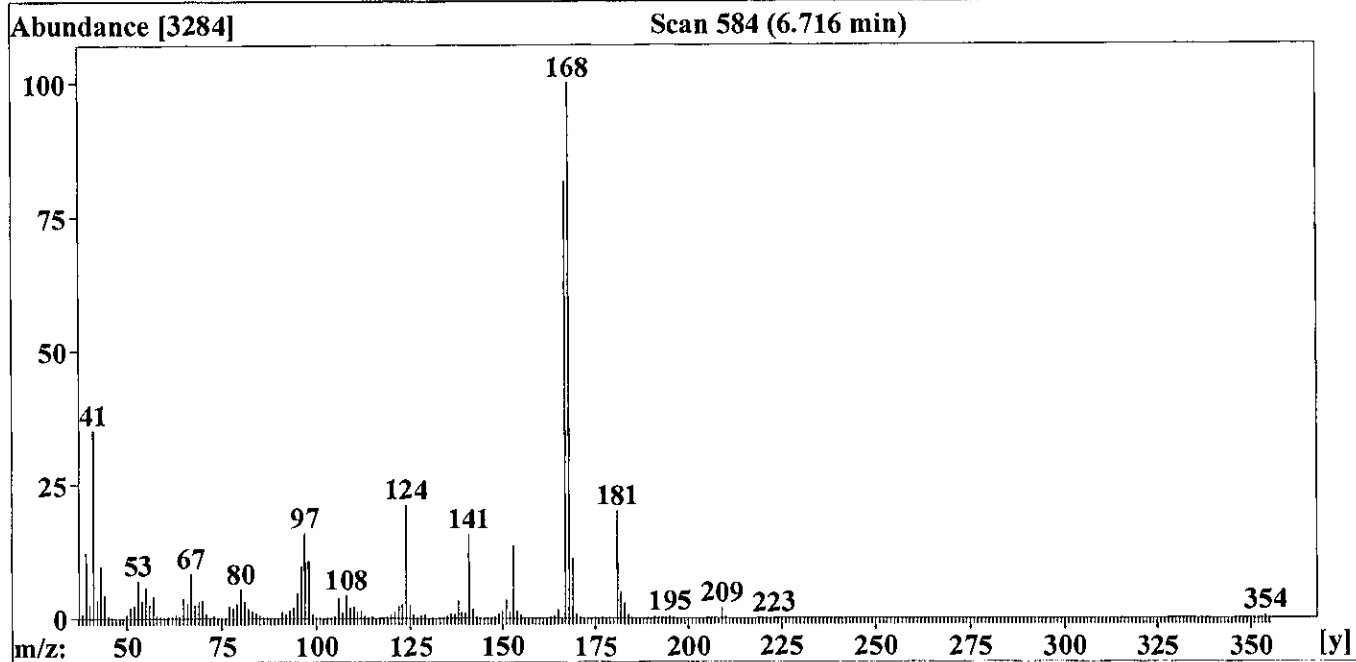
The NIST library was searched for the components that were found in the AMDIS target library.

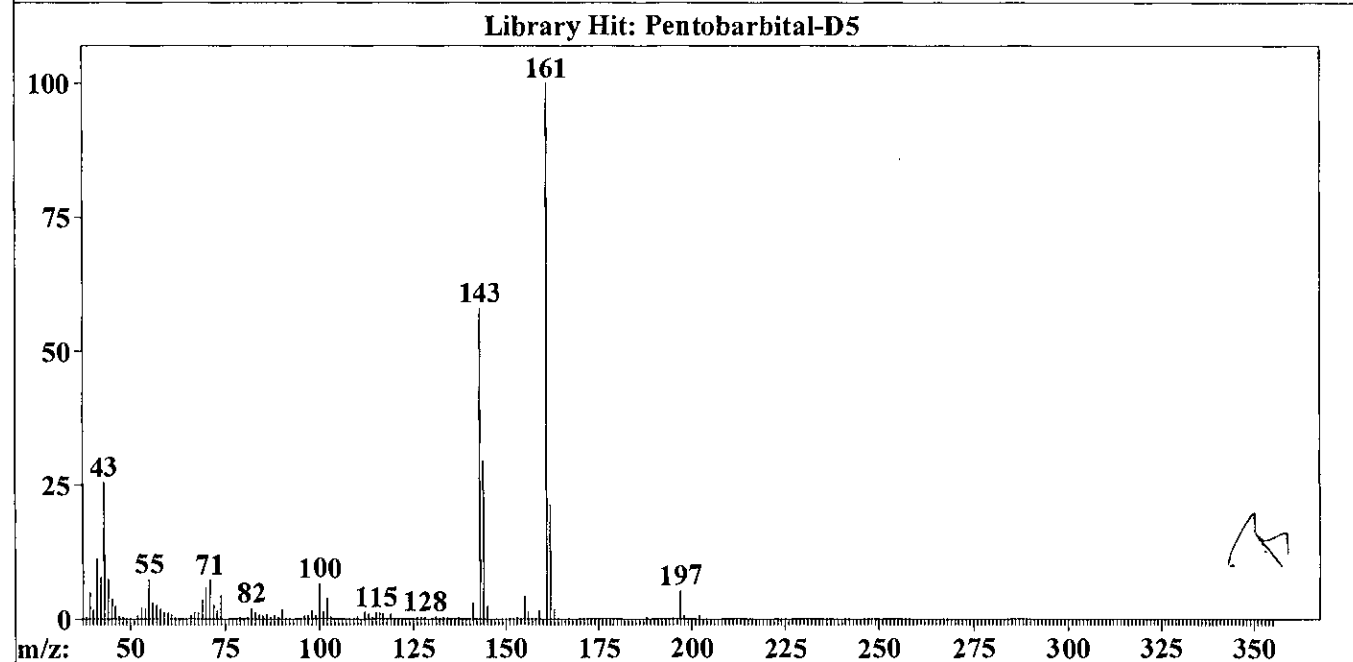
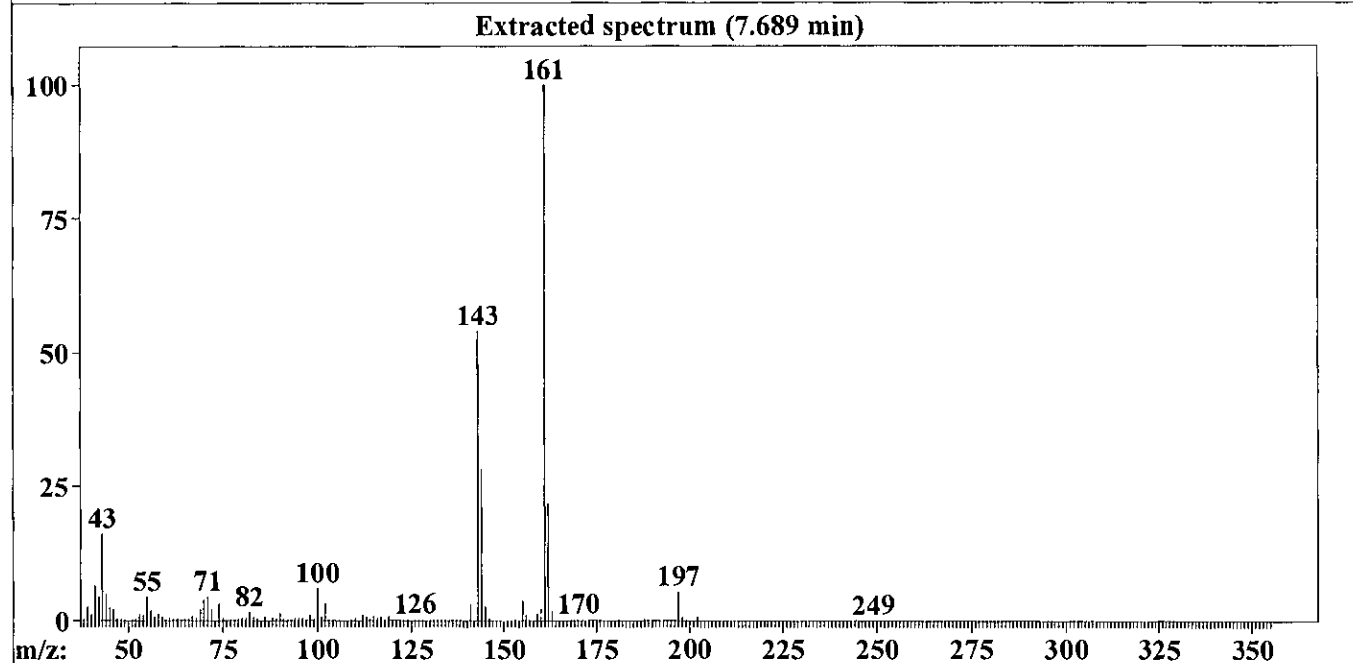
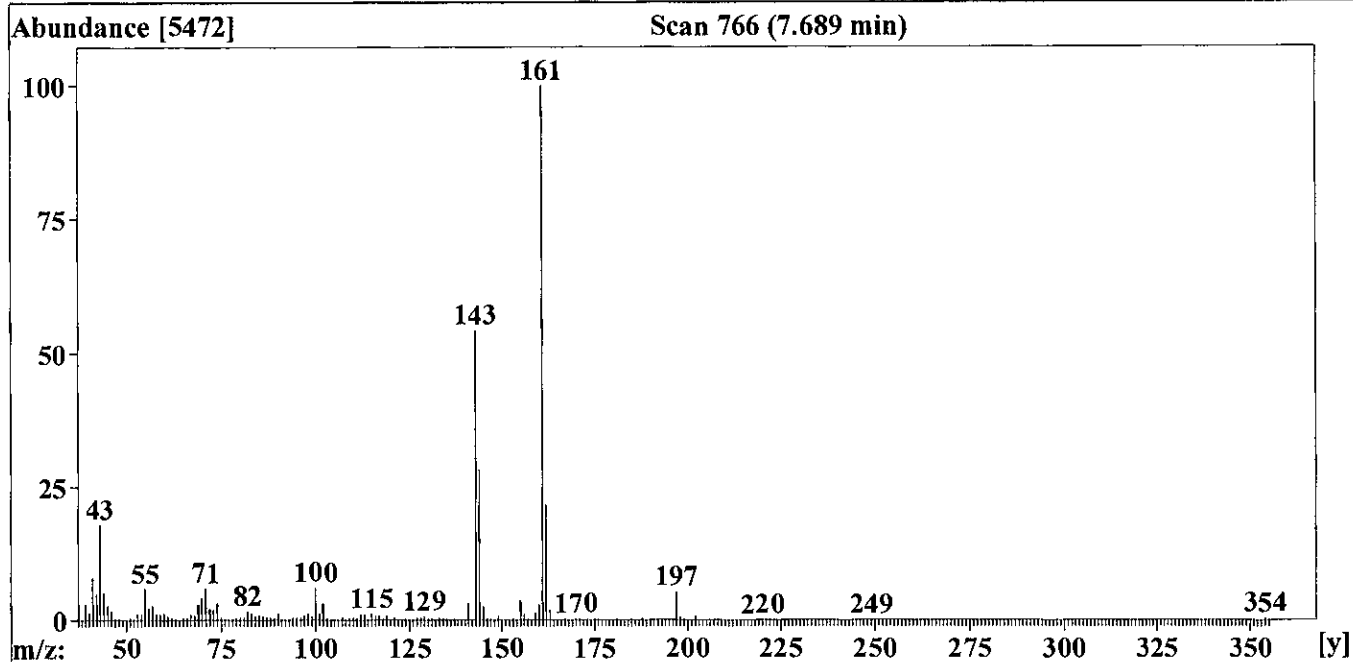
R.T.	Cas #	Compound Name	Amount (ng/mL)		AMDIS		NIST	
			Chem station	AMDIS	Match	R.T. Diff sec.	Reverse Match	Hit Num.
6.7180	77269	Butalbital			100 ✓	1.2	96	1
7.6882	52944668	Pentobarbital-D5			99 ✓	1.3		
7.6882	3189488	2-Indolizine, carboxylic acid					63	1
8.4034	57534	Meprobamate			98 ✓	1.4	93	1
8.5183	76733	Secobarbital			100 ✓	0.2	93	1
9.7828	78444	Carisoprodol			95 ✓	-1.3	93	1
11.5152	50066	Phenobarbital			99 ✓	0.0	95	1
6.716		Butalbital	965.19	✓				
7.689		Pentobarbital-D5	1	✓				
8.401		Meprobamate	1097.25	✓				
8.518		Secobarbital	1045.26	✓				
9.786		Carisoprodol	1055.42	✓				
11.514		Phenobarbital	1037.48	✓				

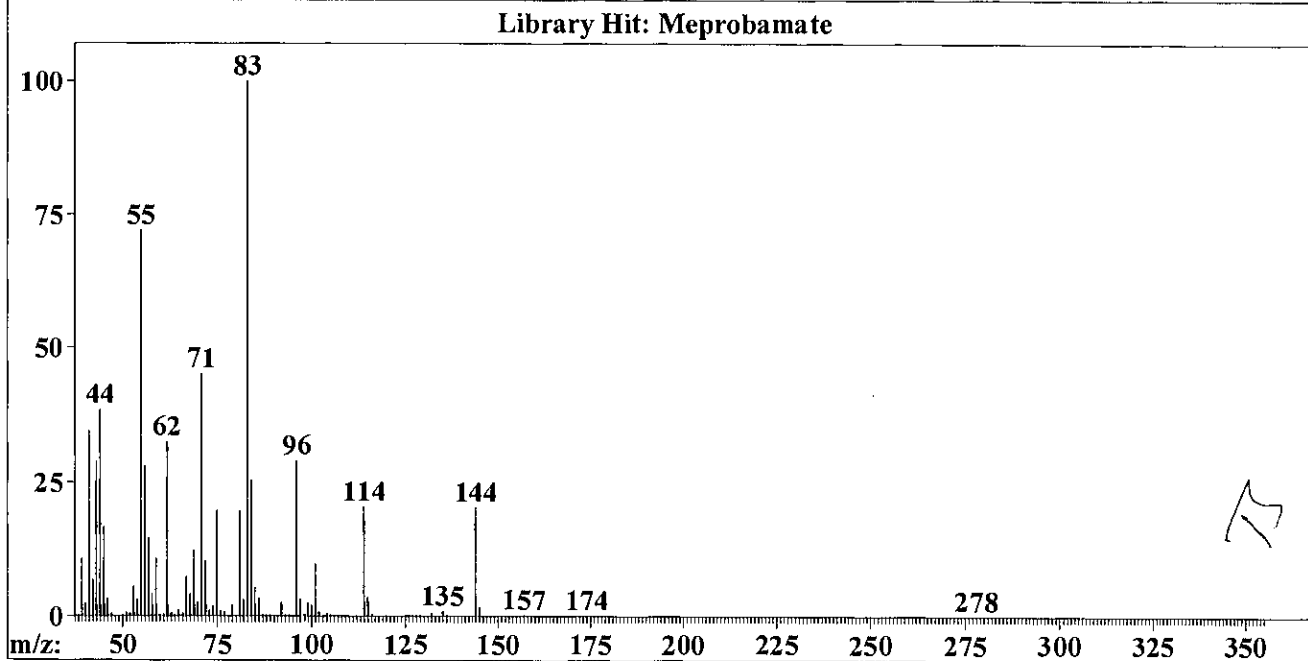
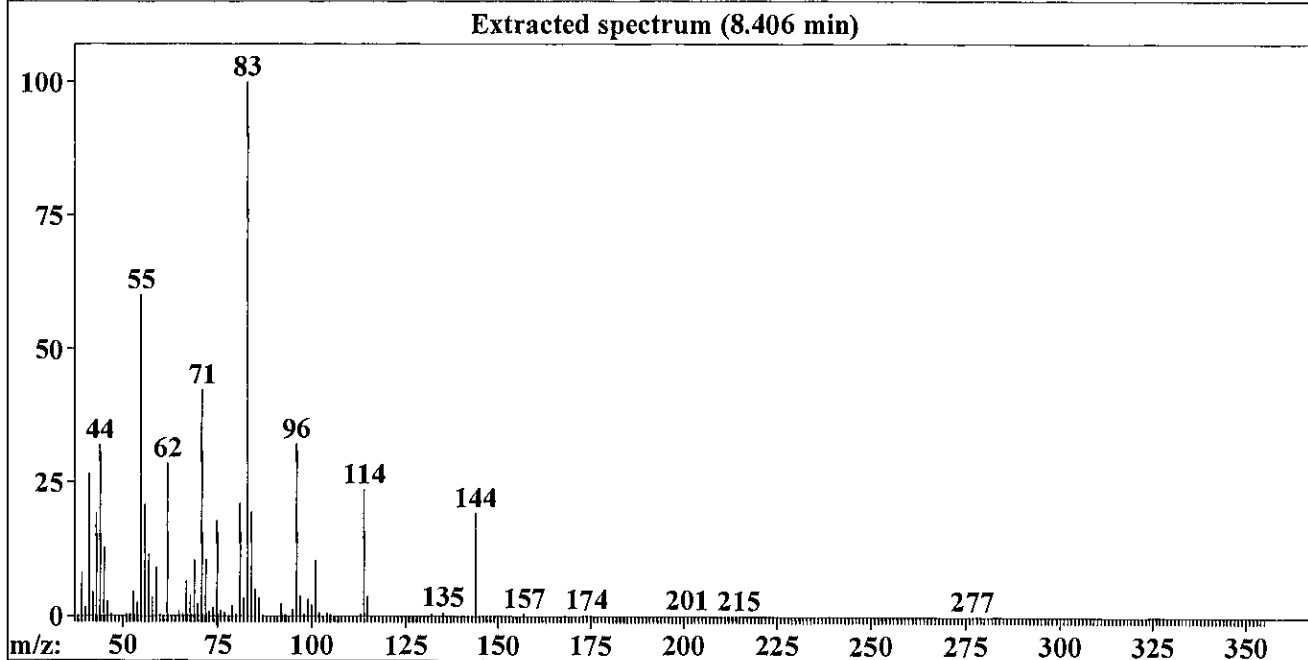
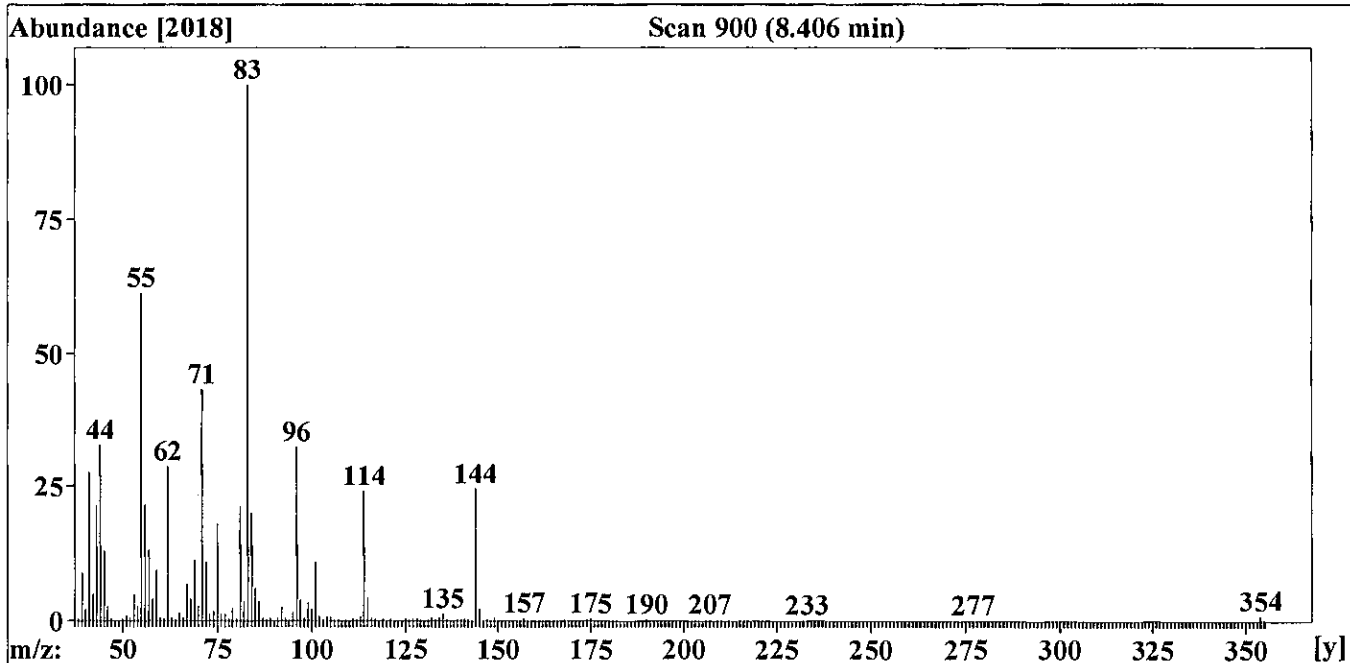
File :D:\DATA\2018\AND\AND_20180924B_TS\2018-09-24-1128.b\15_PosBL
... .D
Operator : Tanuja Sathiraj
Instrument : GC-MS 4
Acquired : 24 Sep 2018 15:58 using AcqMethod QCONFIRM.M
Sample Name: Pos QC Blood
Misc Info :

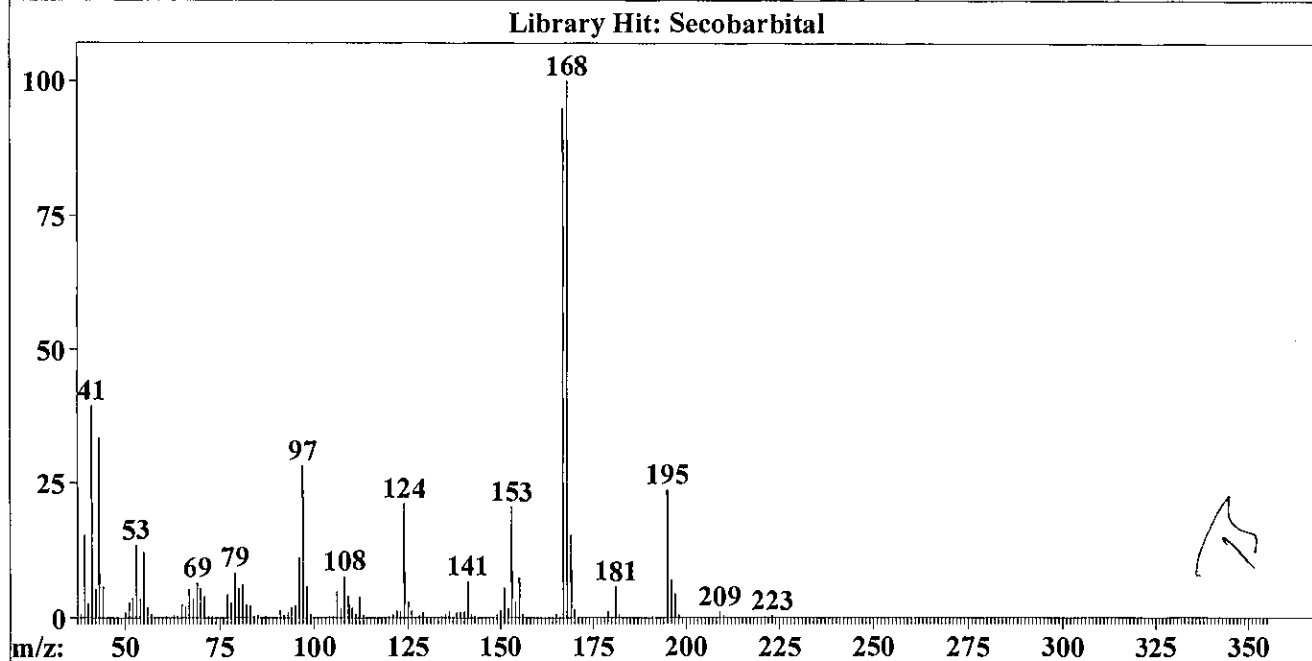
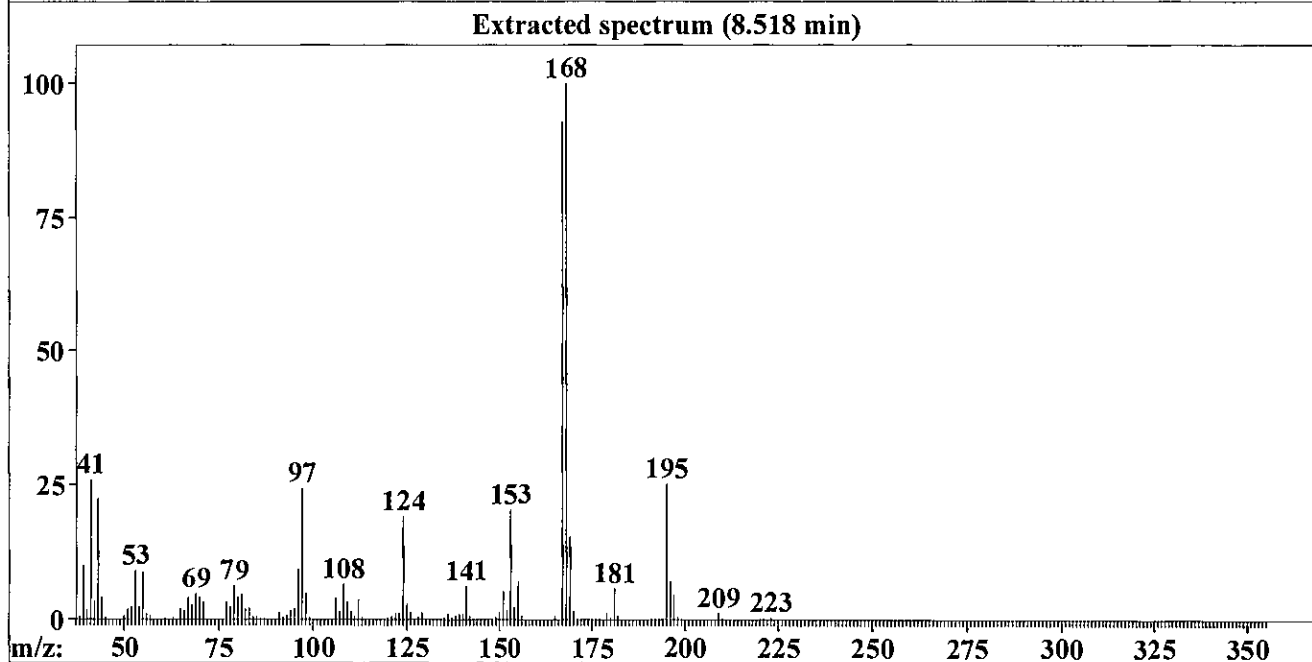
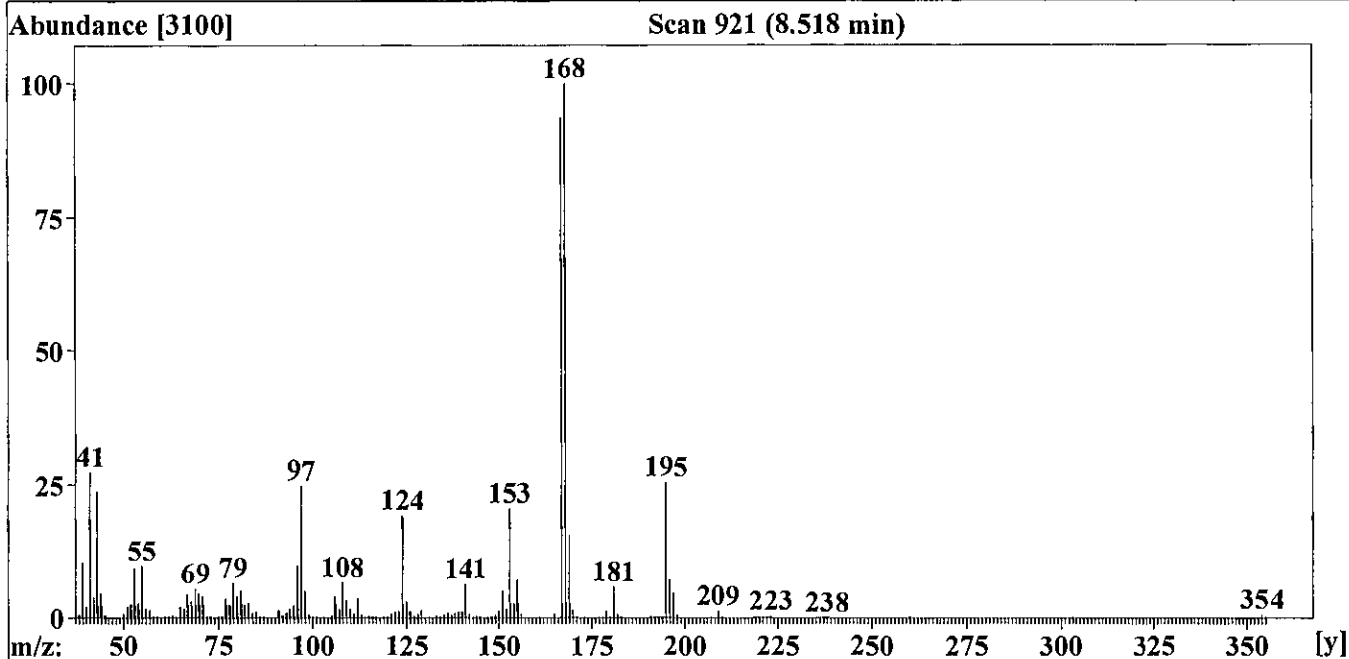


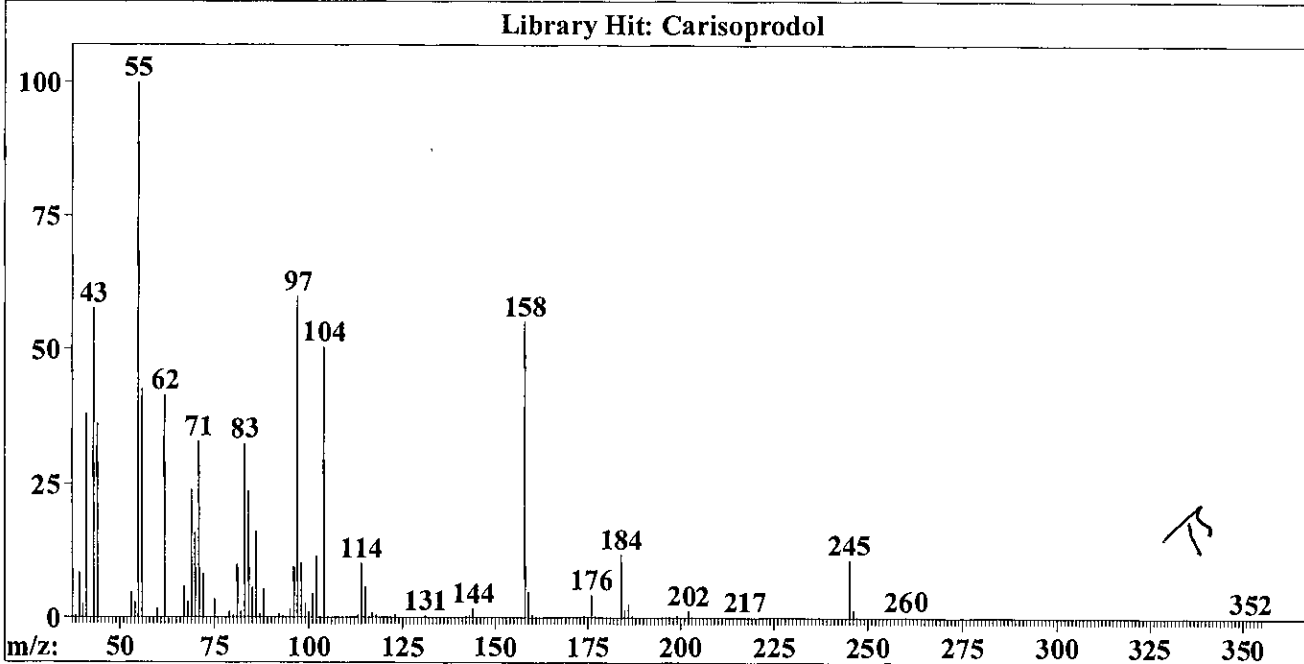
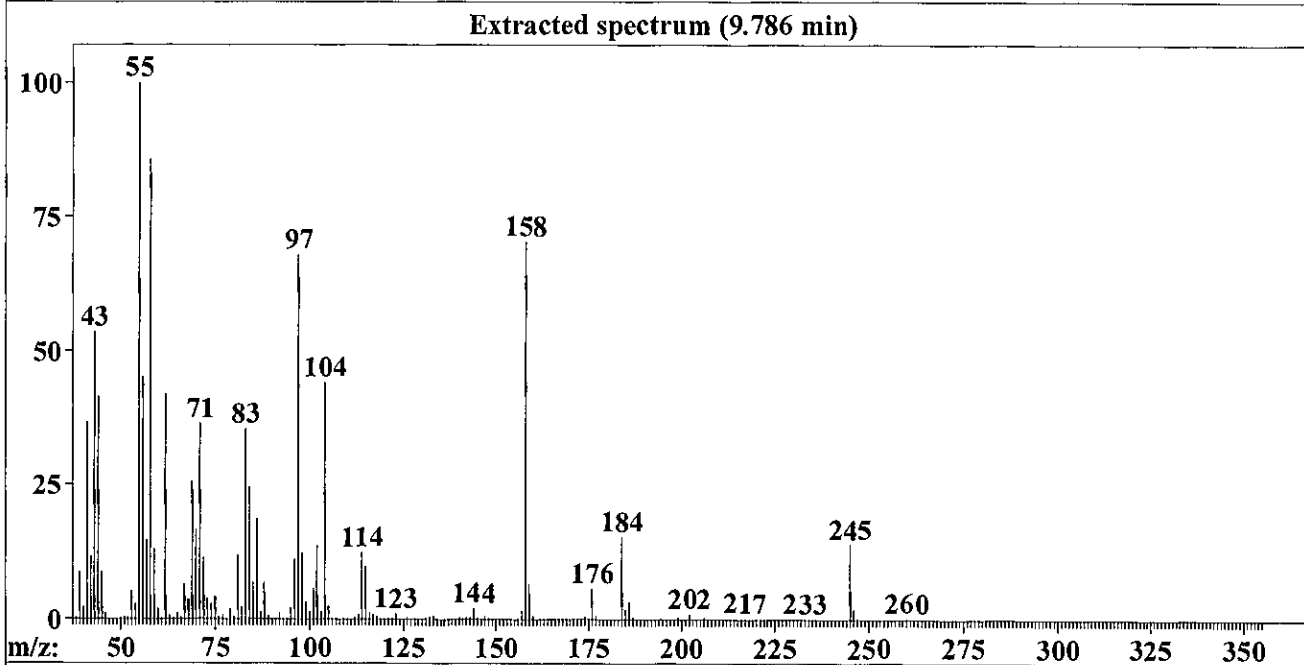
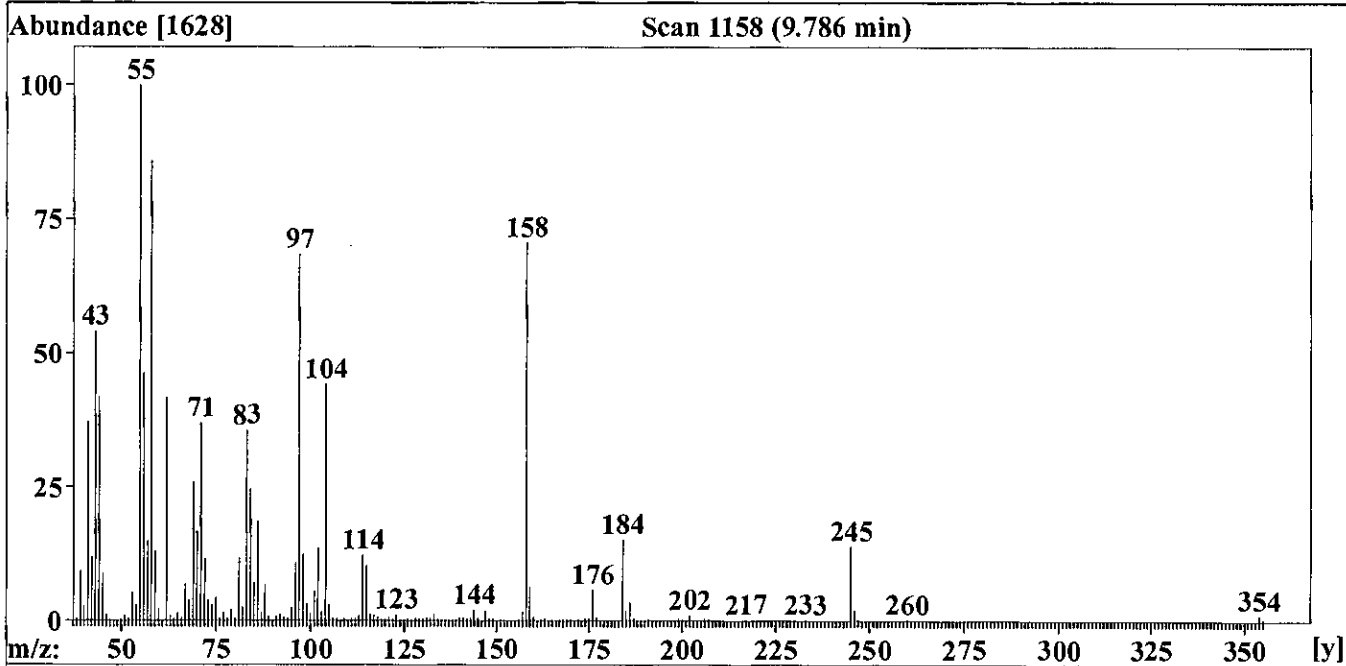
15

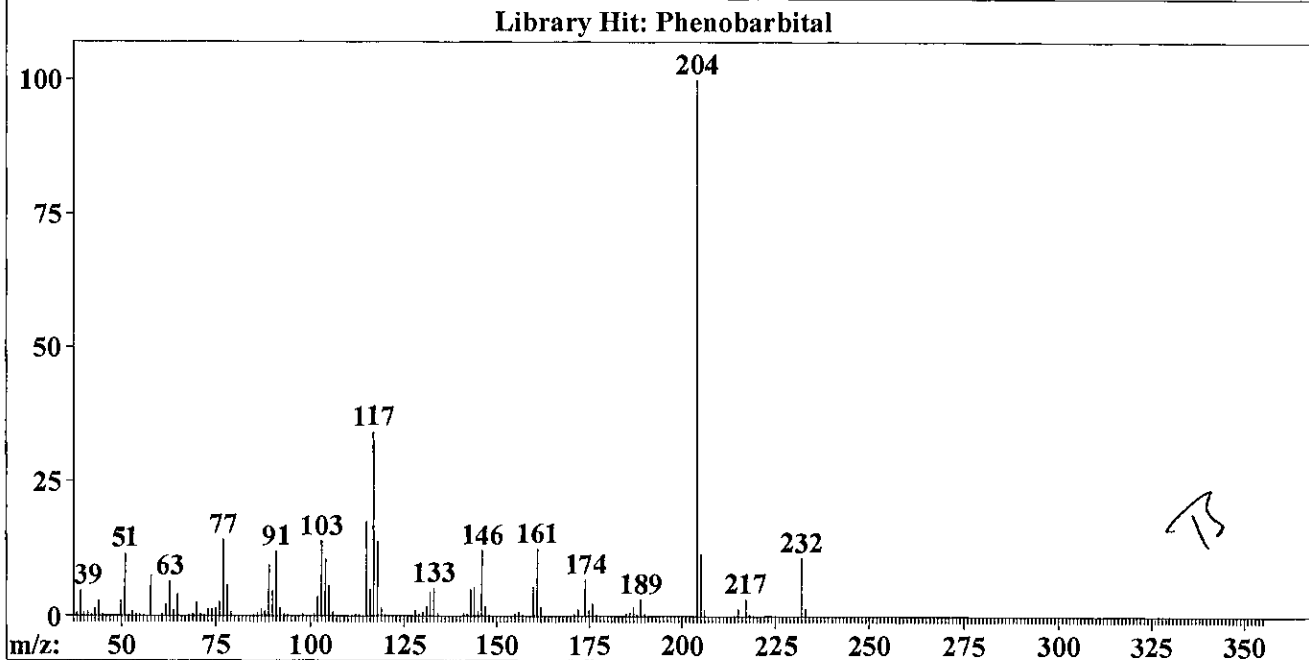
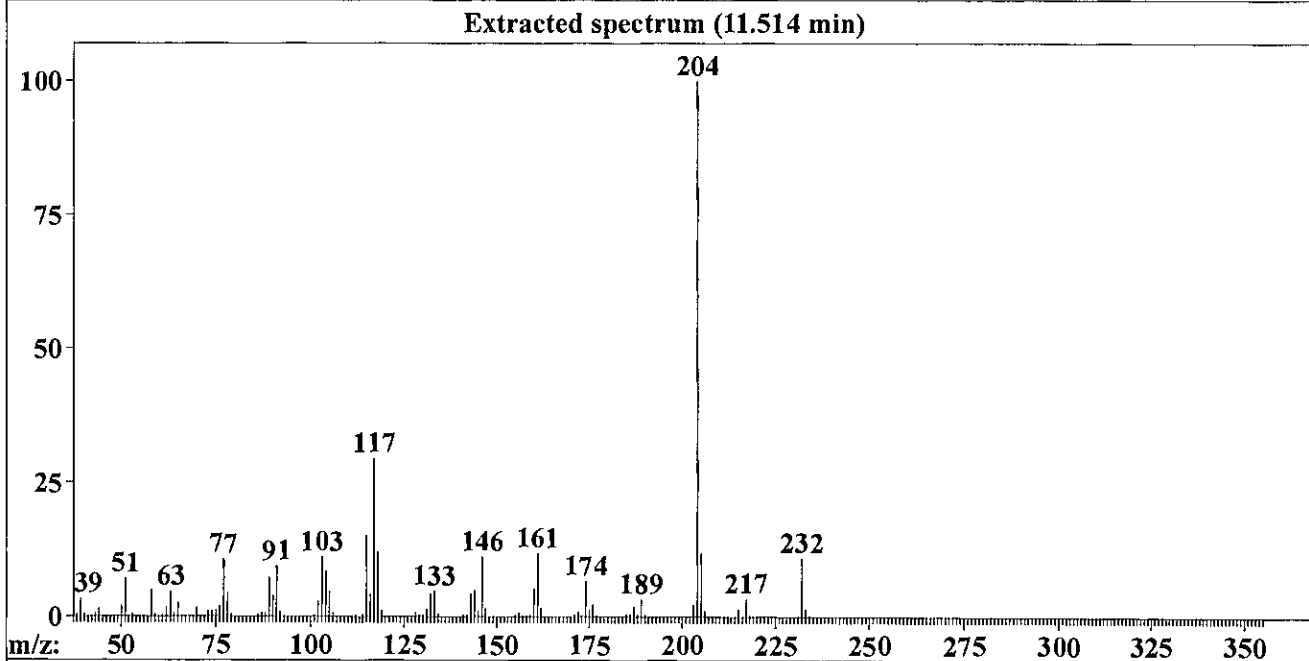
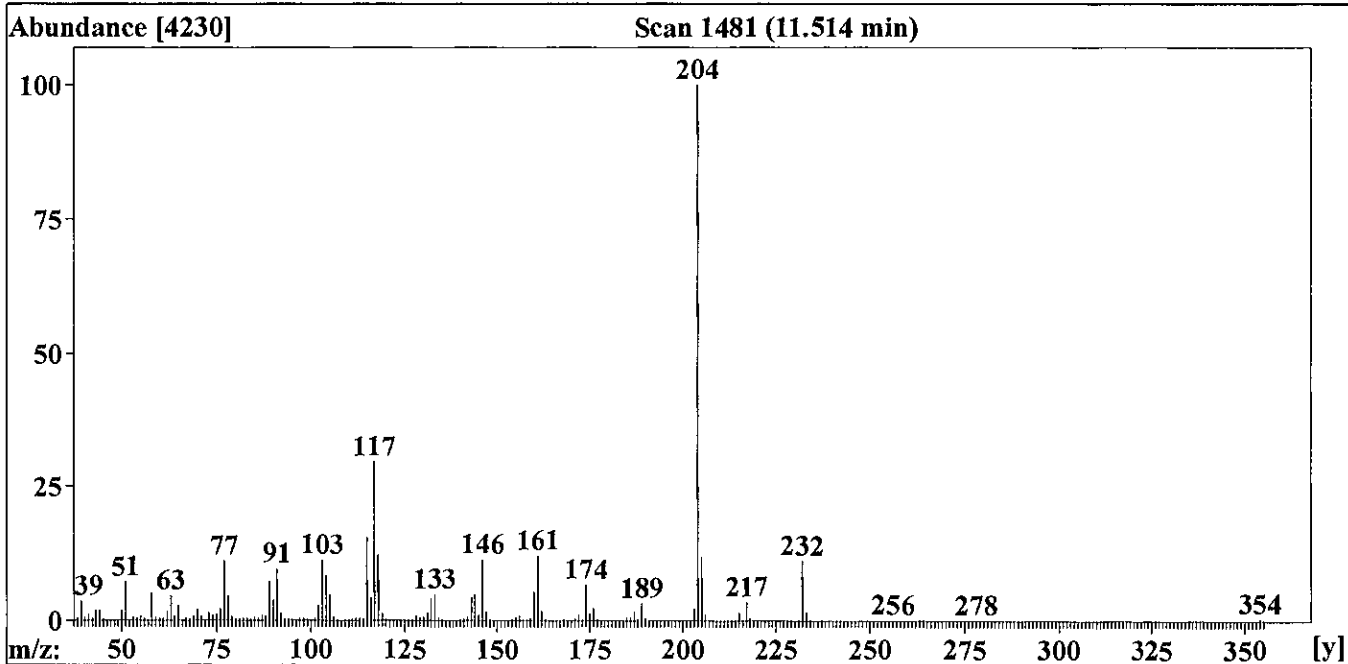












MSD Deconvolution Report
 Sample Name: Pos QC1-180920L-Q-10
 Data File: D:\DATA\2018\AND\AND_20180924B_TS\2018-09-24-1128.b\07_180920L-Q-10.D
 Date/Time: 4:03:22 PM Monday, September 24, 2018

Adjacent Peak Subtraction = 1
 Resolution = Medium
 Sensitivity = High
 Shape Requirements = Medium

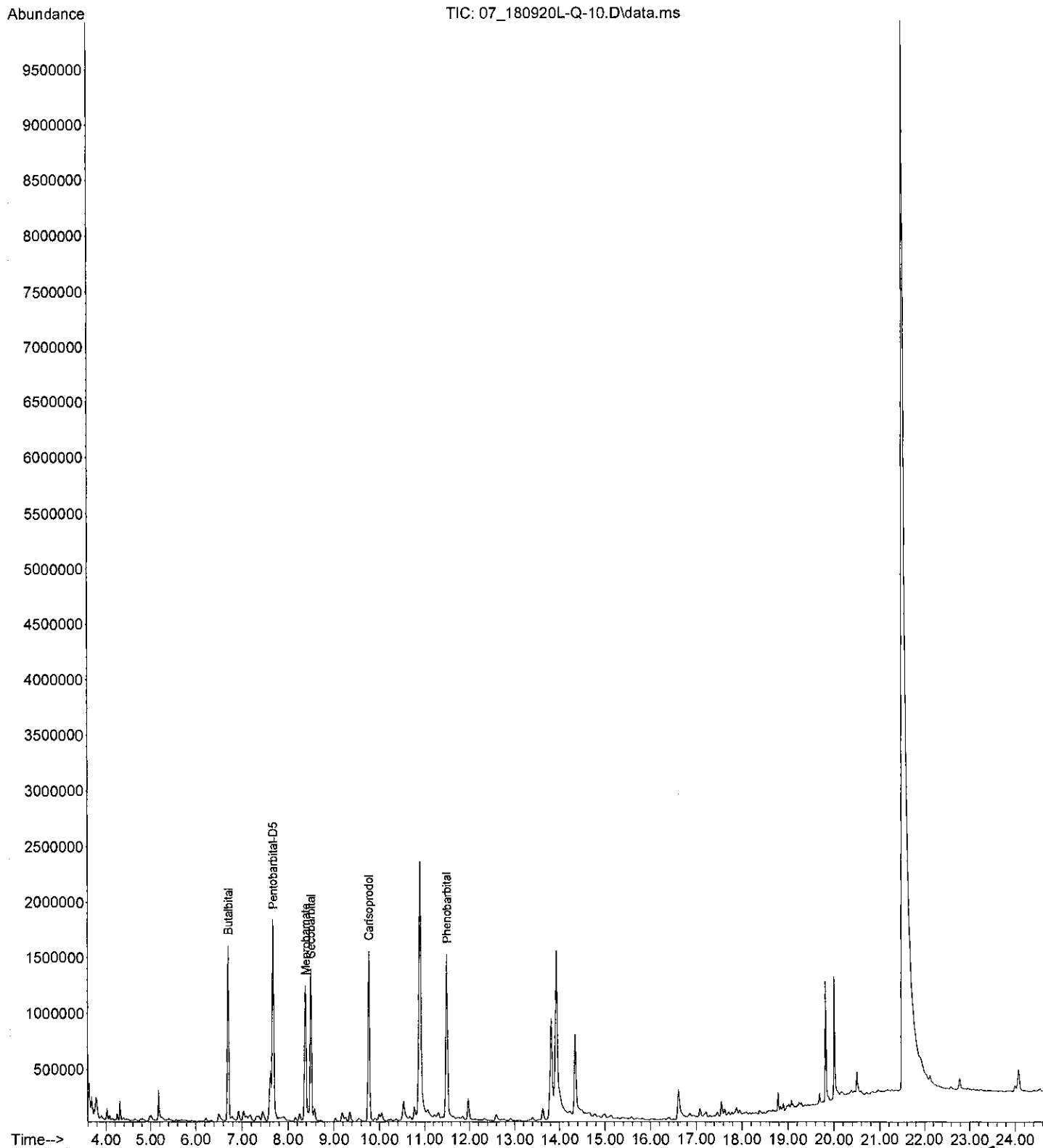
The NIST library was searched for the components that were found in the AMDIS target library.

R.T.	Cas #	Compound Name	Amount (ng/mL)		AMDIS		NIST	
			Chem station	AMDIS	Match	R.T. Diff sec.	Reverse Match	Hit Num.
6.7153	77269	Butalbital			100	1.1	96	1
7.6851	52944668	Pentobarbital-D5			99	1.1		
7.6851	3189488	2-Indolizine, carboxylic acid					64	1
8.3943	57534	Meprobamate			98	0.8	93	1
8.5109	76733	Secobarbital			100	-0.2	93	1
9.7849	78444	Carisoprodol			95	-1.1	93	1
11.5099	50066	Phenobarbital			99	-0.3	95	1
17.6057	57410	Phenytoin			65	1.9	69	2
6.716		Butalbital	977.84	✓				
7.684		Pentobarbital-D5	1	✓				
8.395		Meprobamate	1079.84	✓				
8.513		Secobarbital	843.77	✓				
9.786		Carisoprodol	1033.43	✓				
11.508		Phenobarbital	991.24	✓				

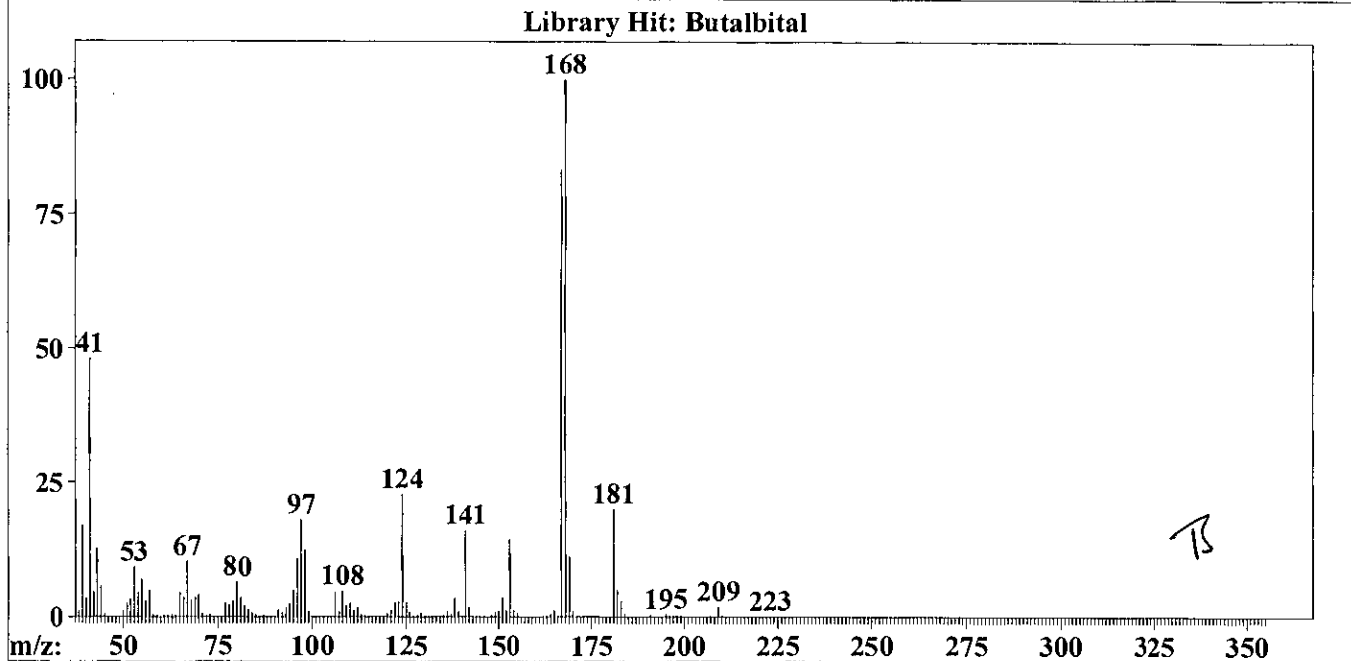
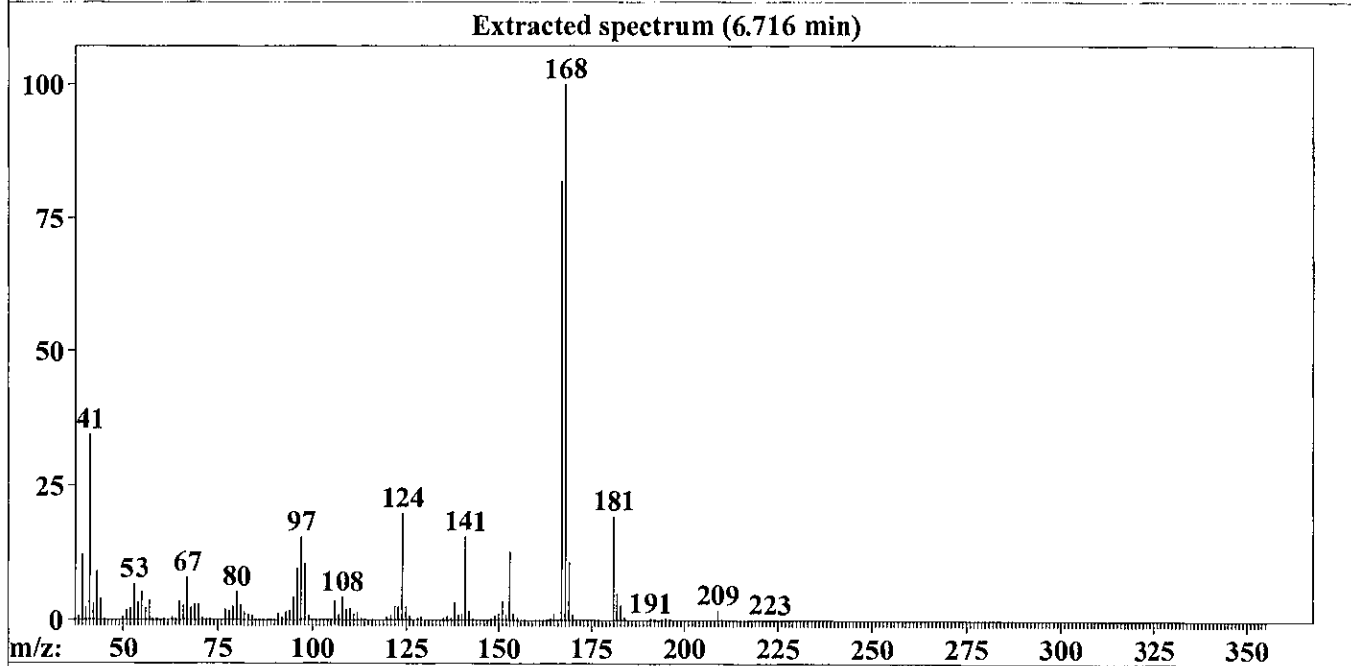
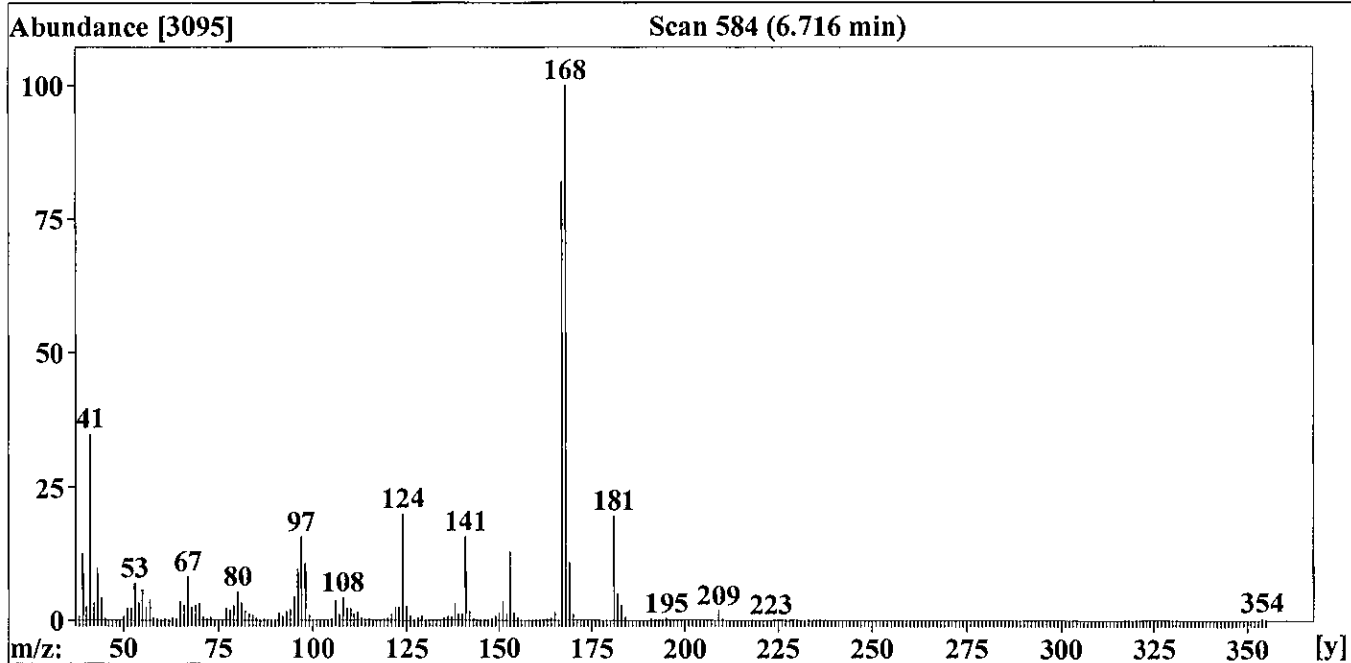
sample meets acceptance criteria. OK to use in casework.
 TS 9/26/18

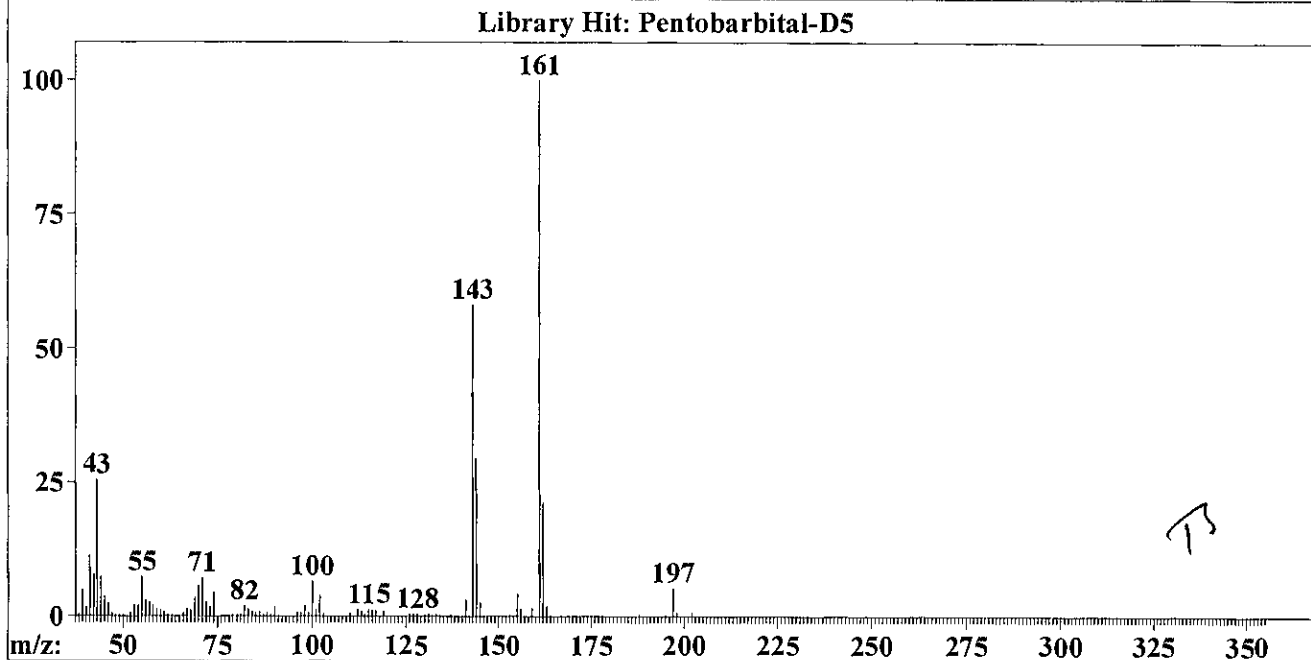
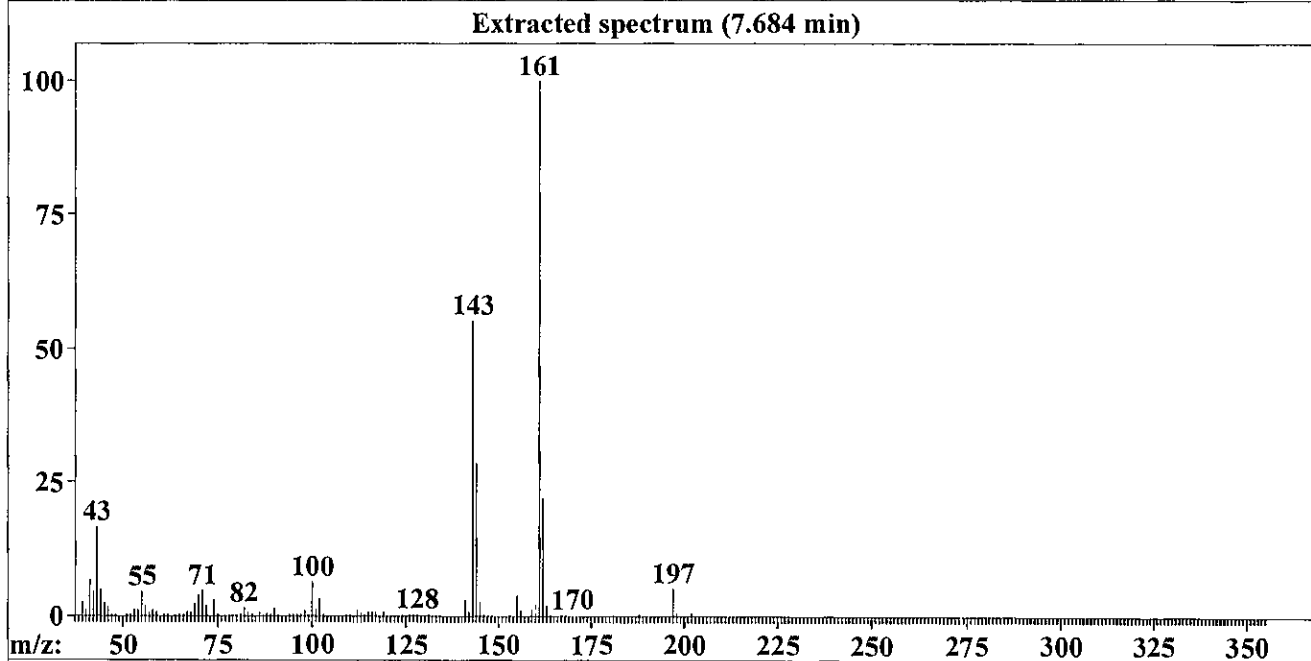
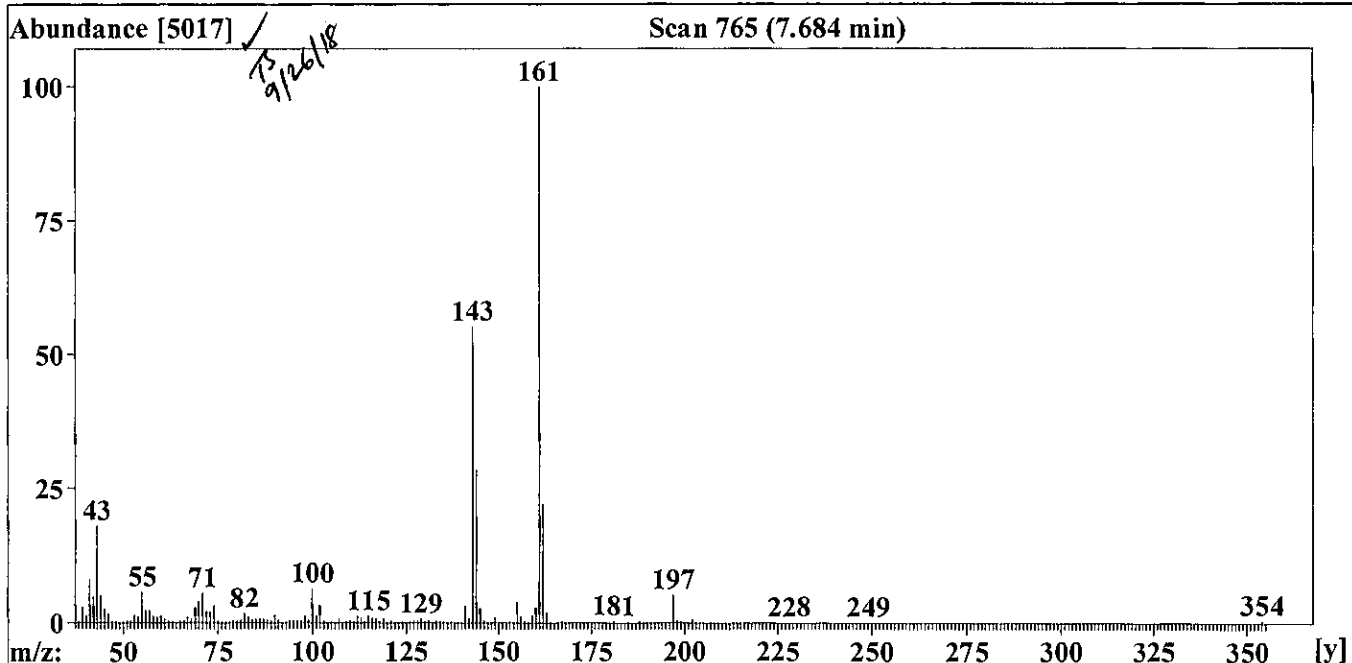
TS

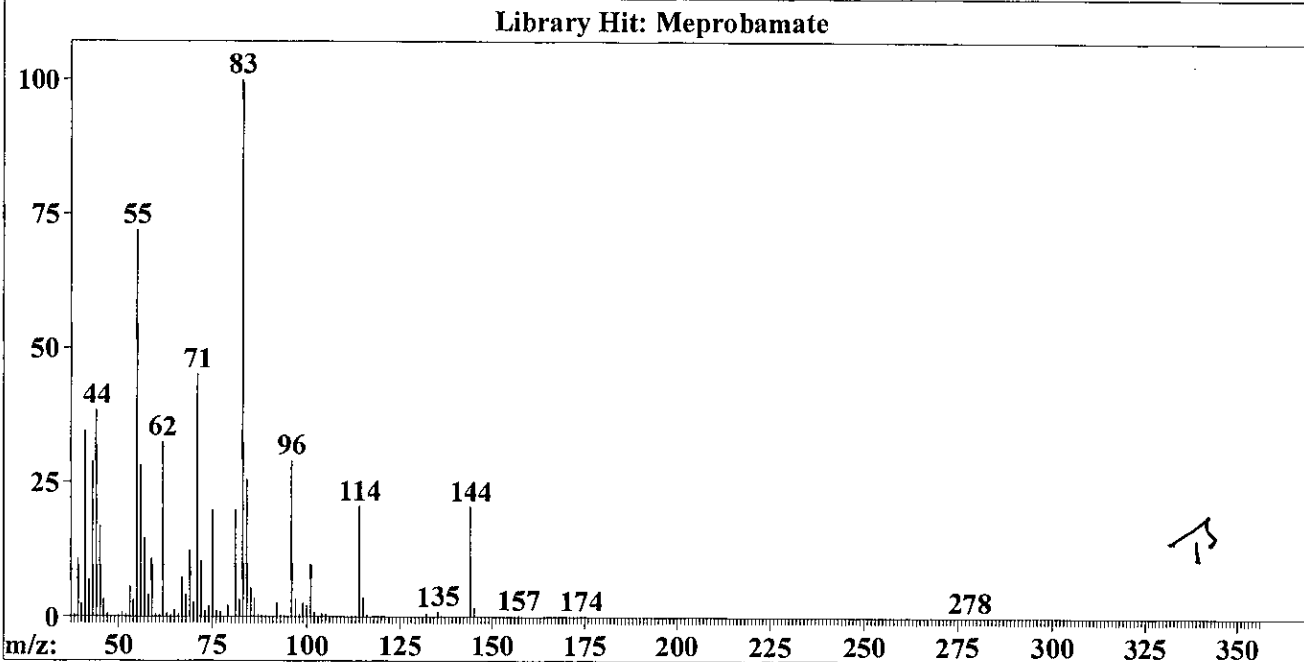
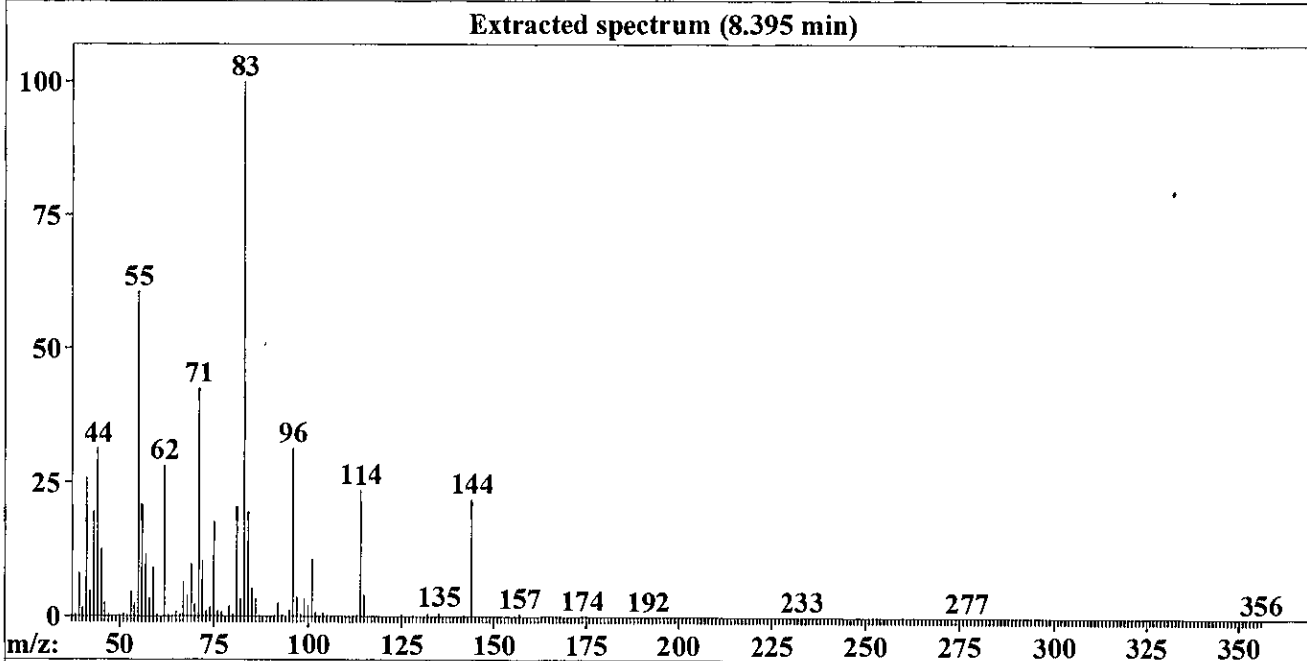
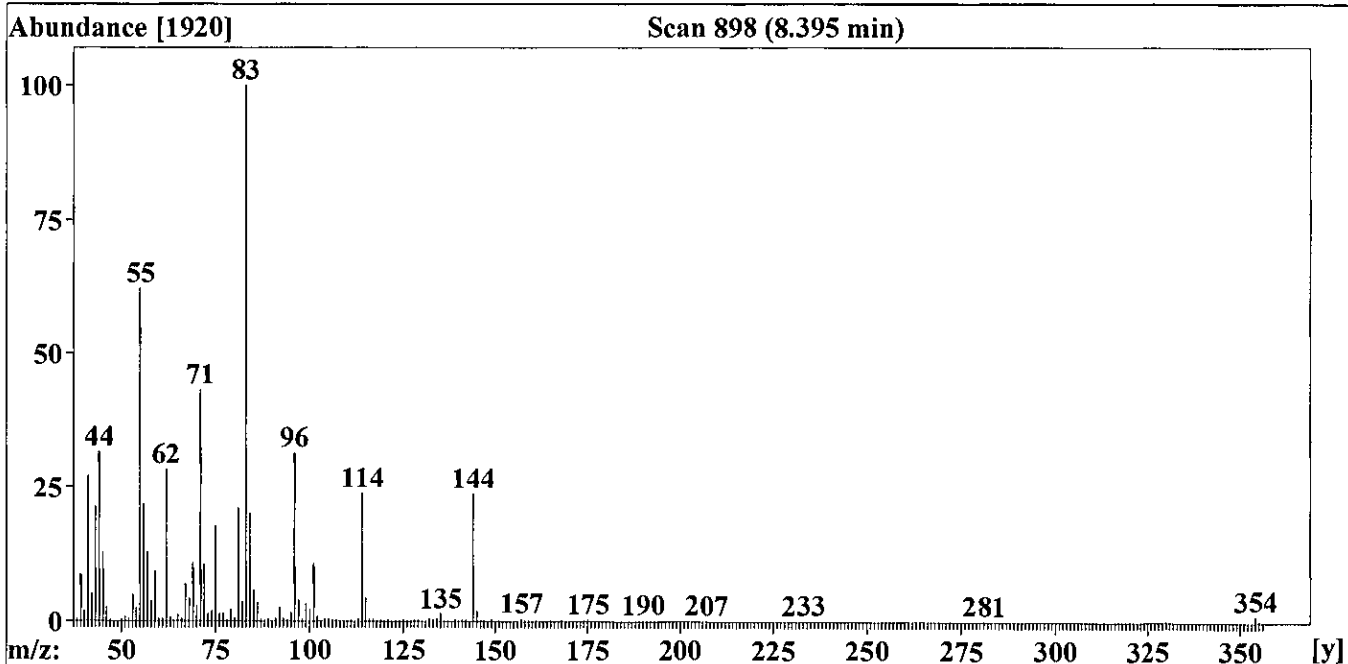
File :D:\DATA\2018\AND\AND_20180924B_TS\2018-09-24-1128.b\07_18092
... 0L-Q-10.D
Operator : Tanuja Sathiraj
Instrument : GC-MS 4
Acquired : 24 Sep 2018 14:49 using AcqMethod QCONFIRM.M
Sample Name: Pos QC1-180920L-Q-10
Misc Info :

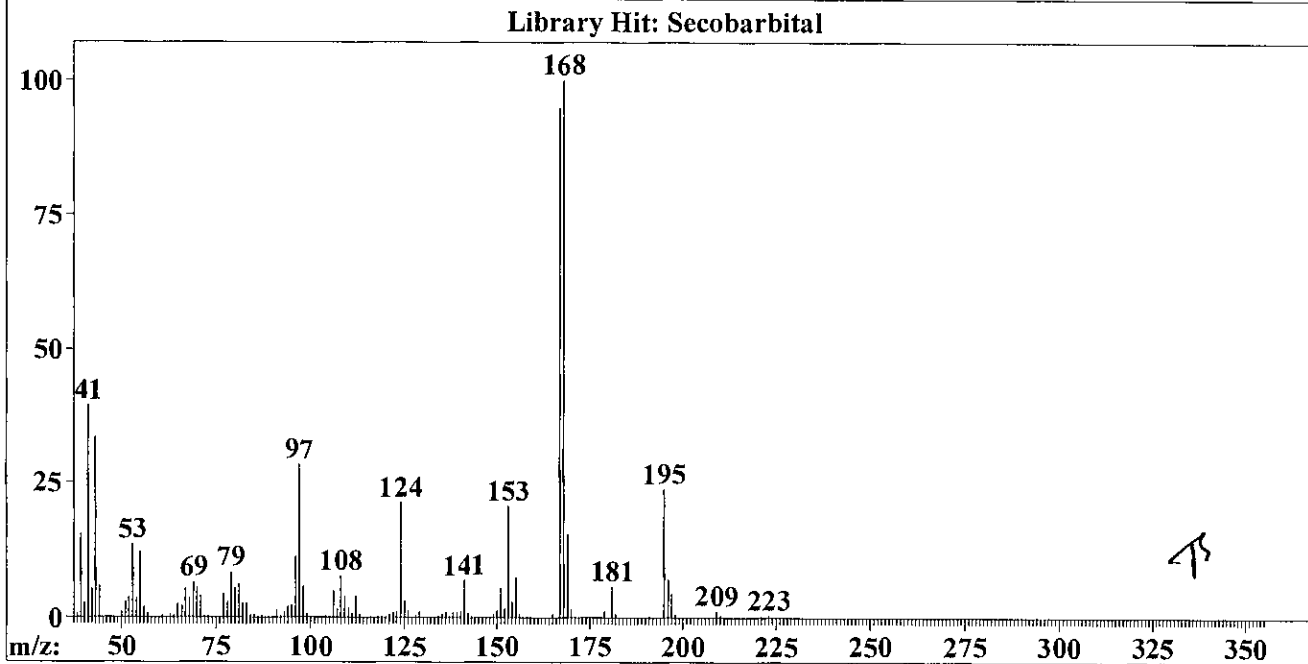
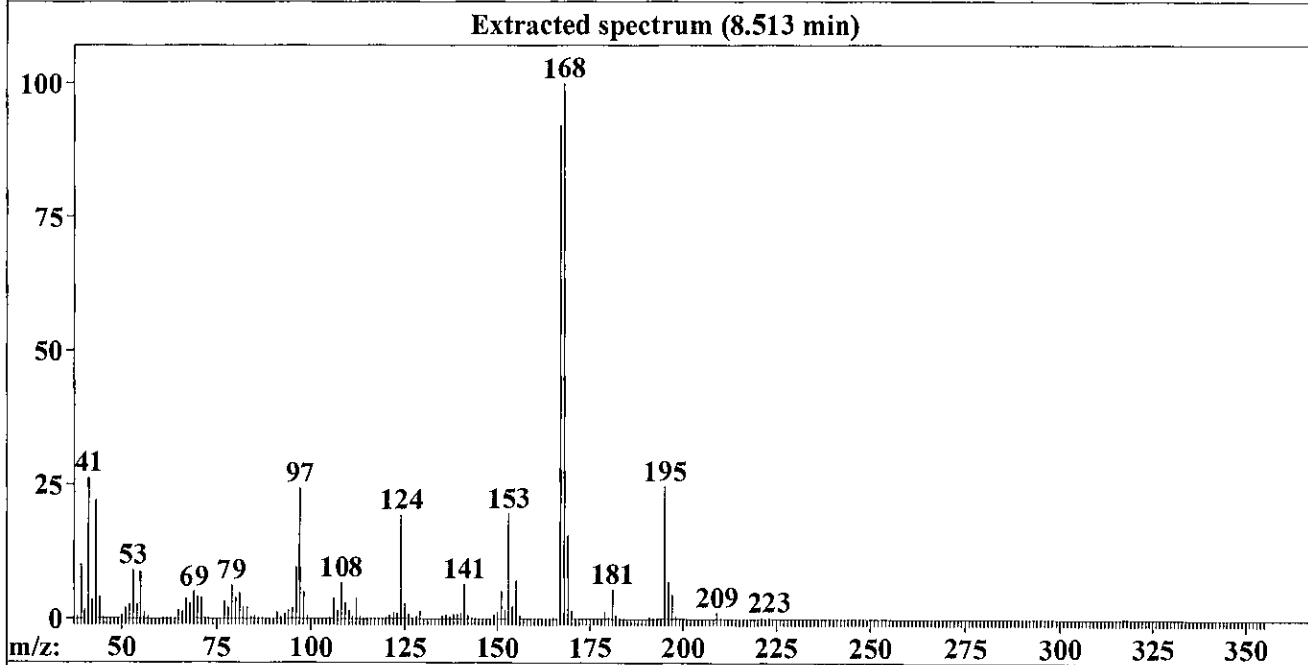
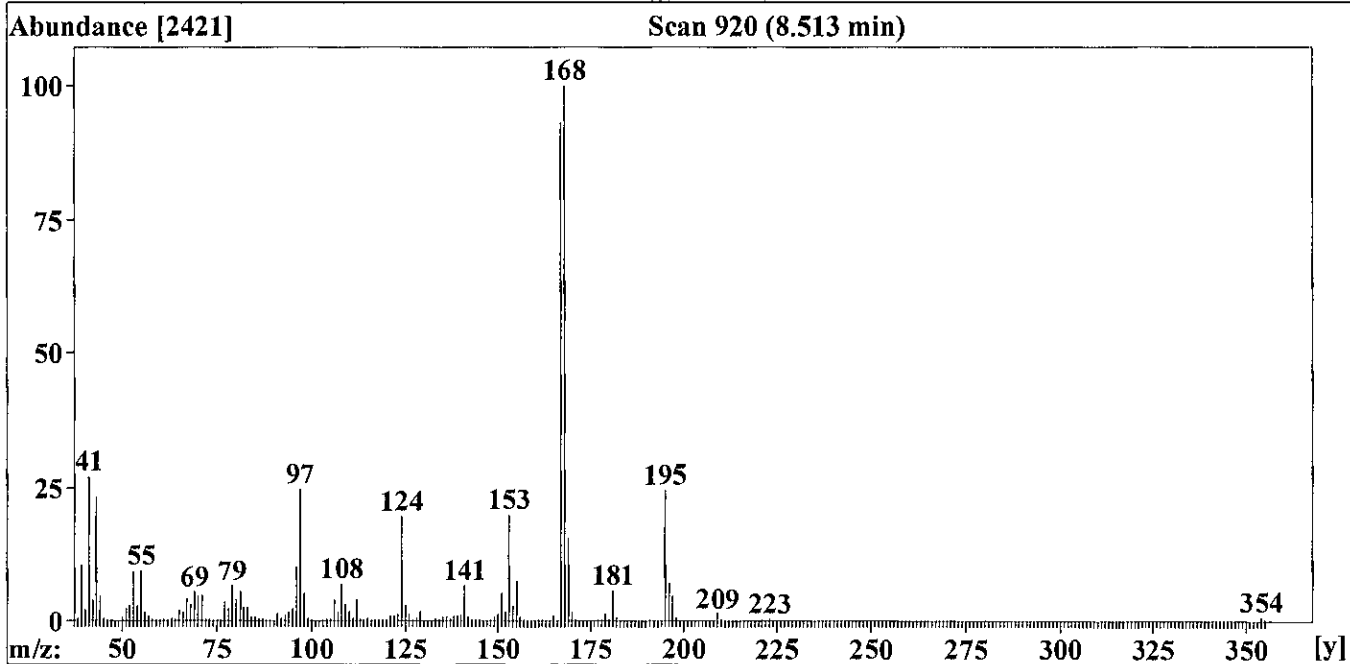


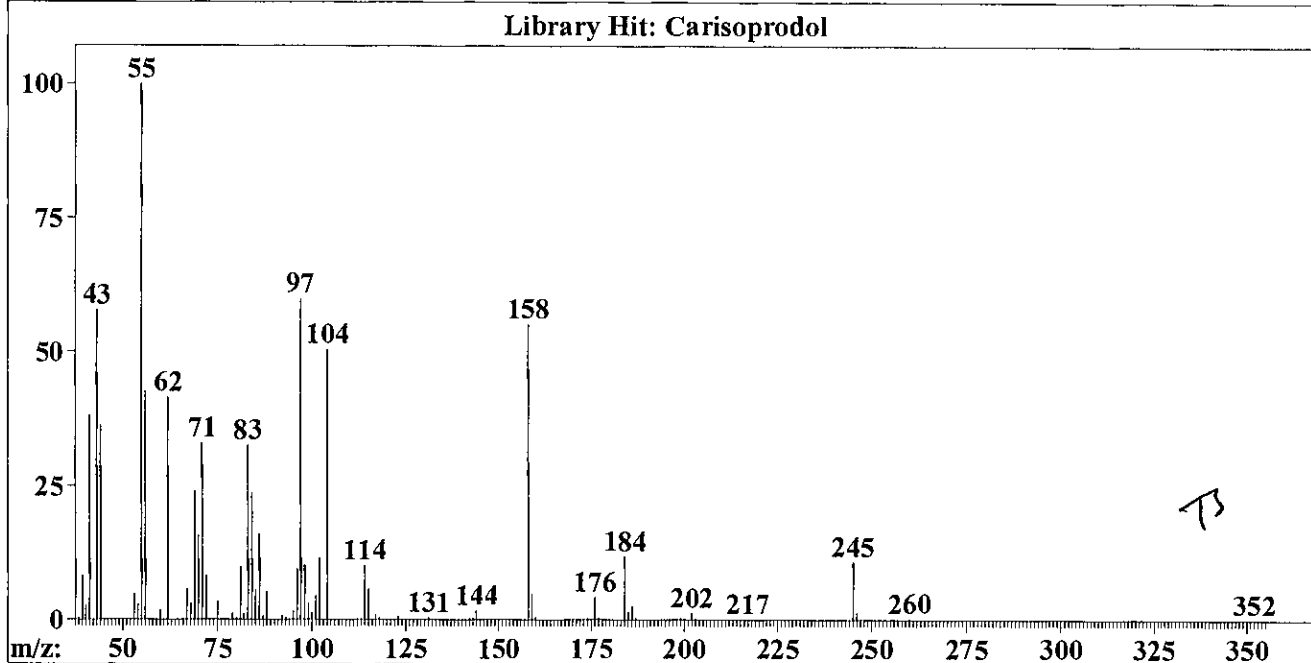
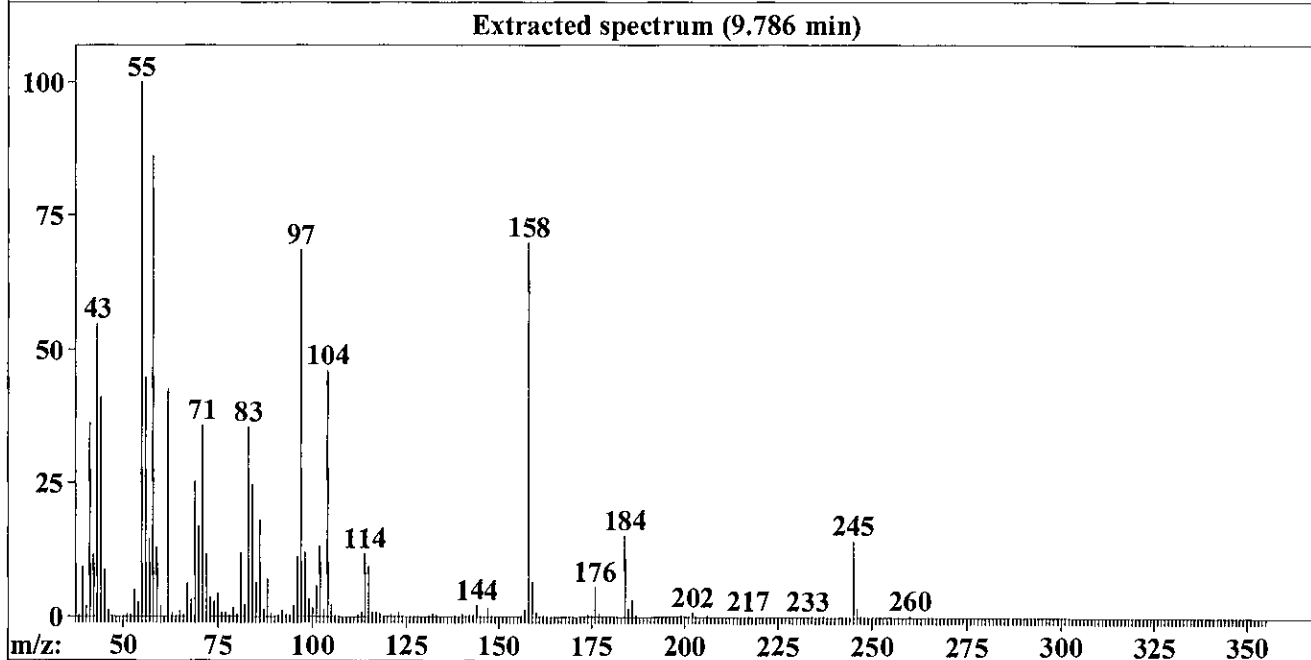
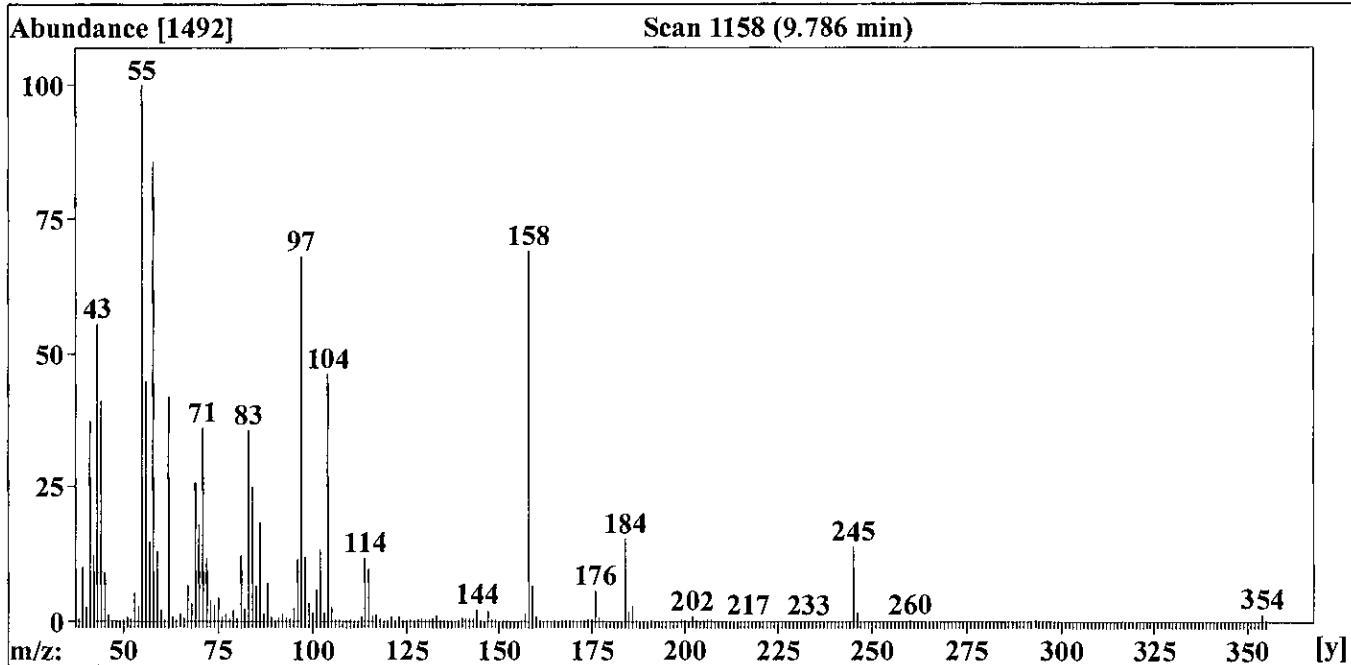
TS

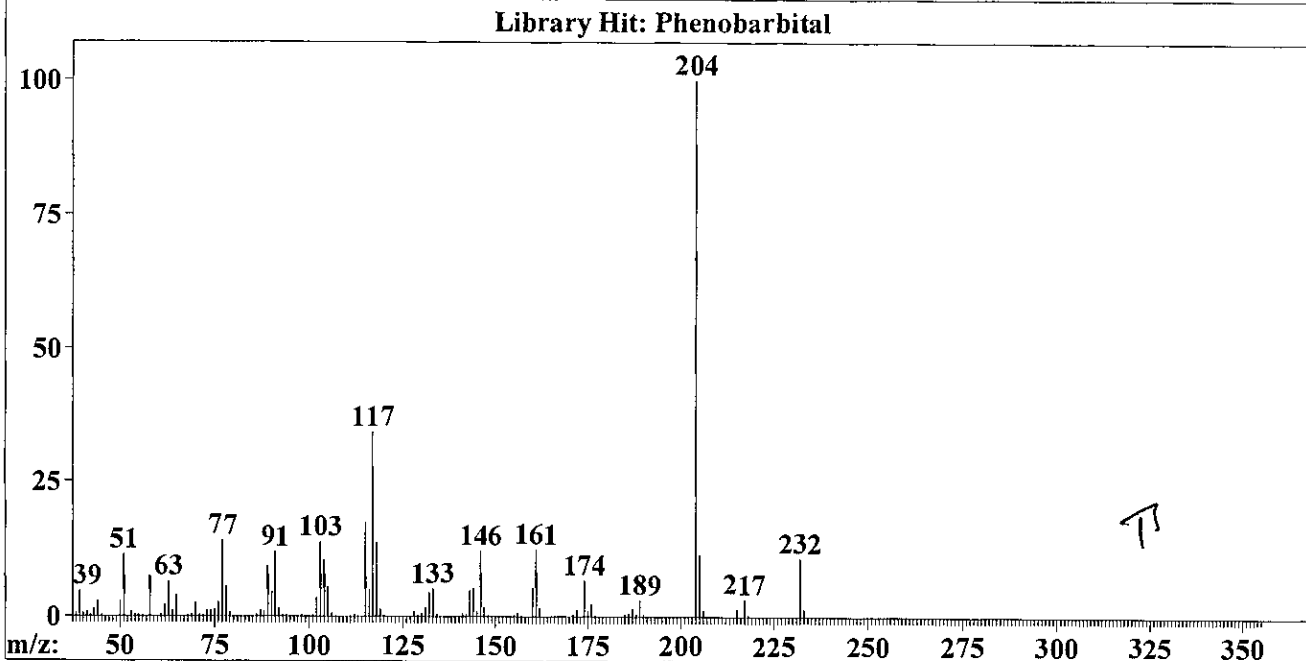
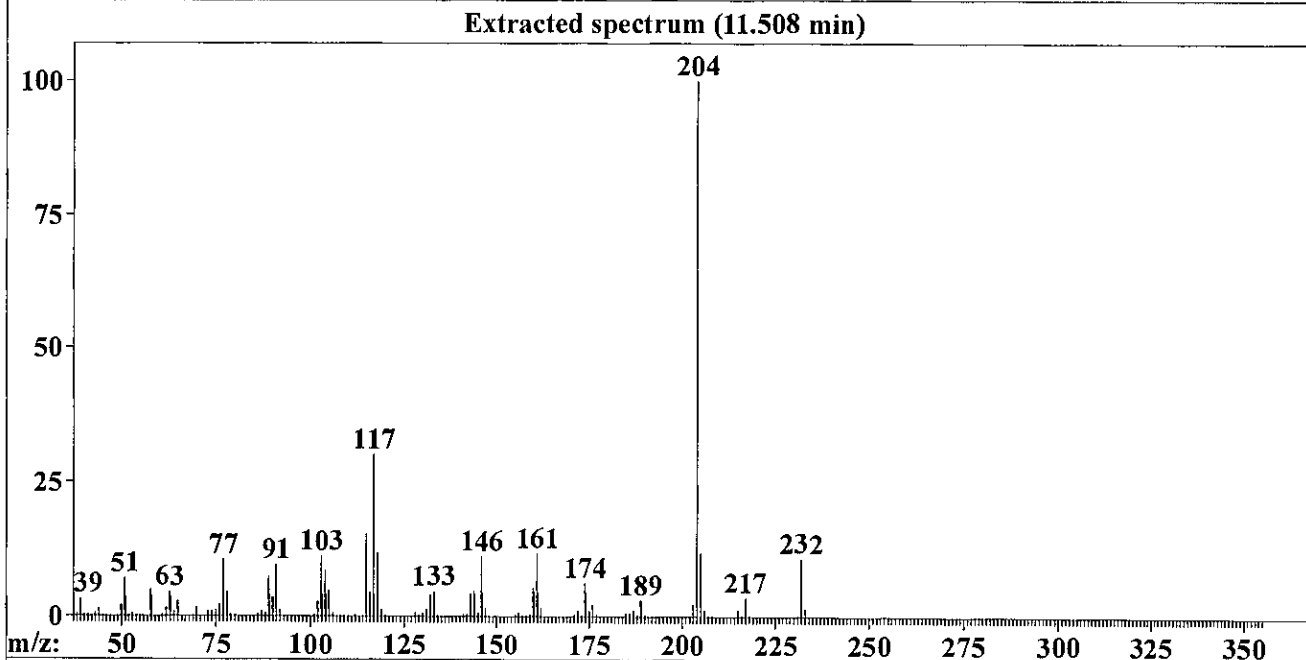
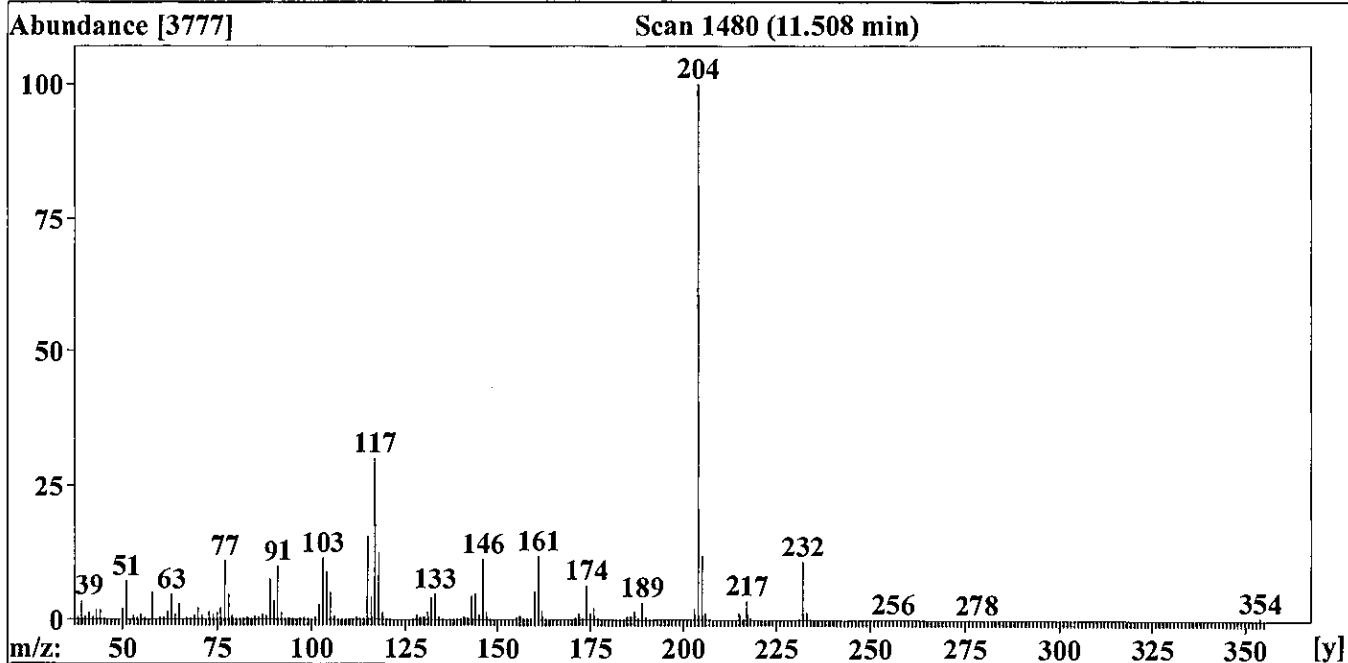


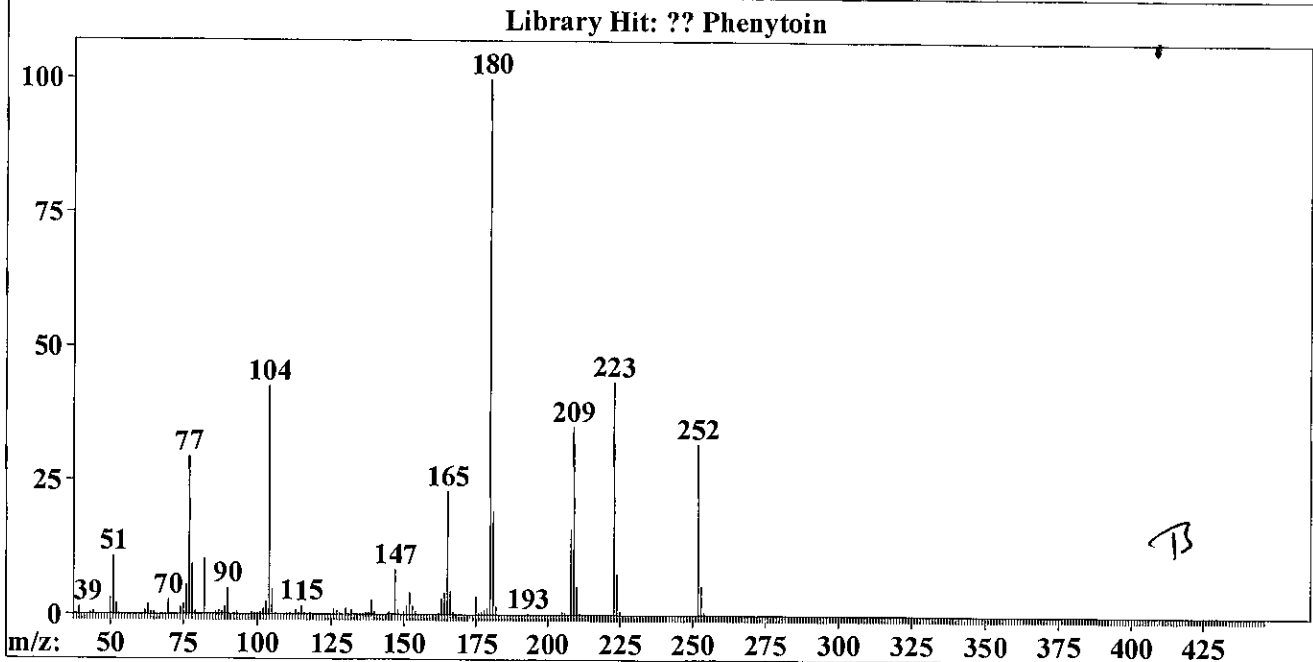
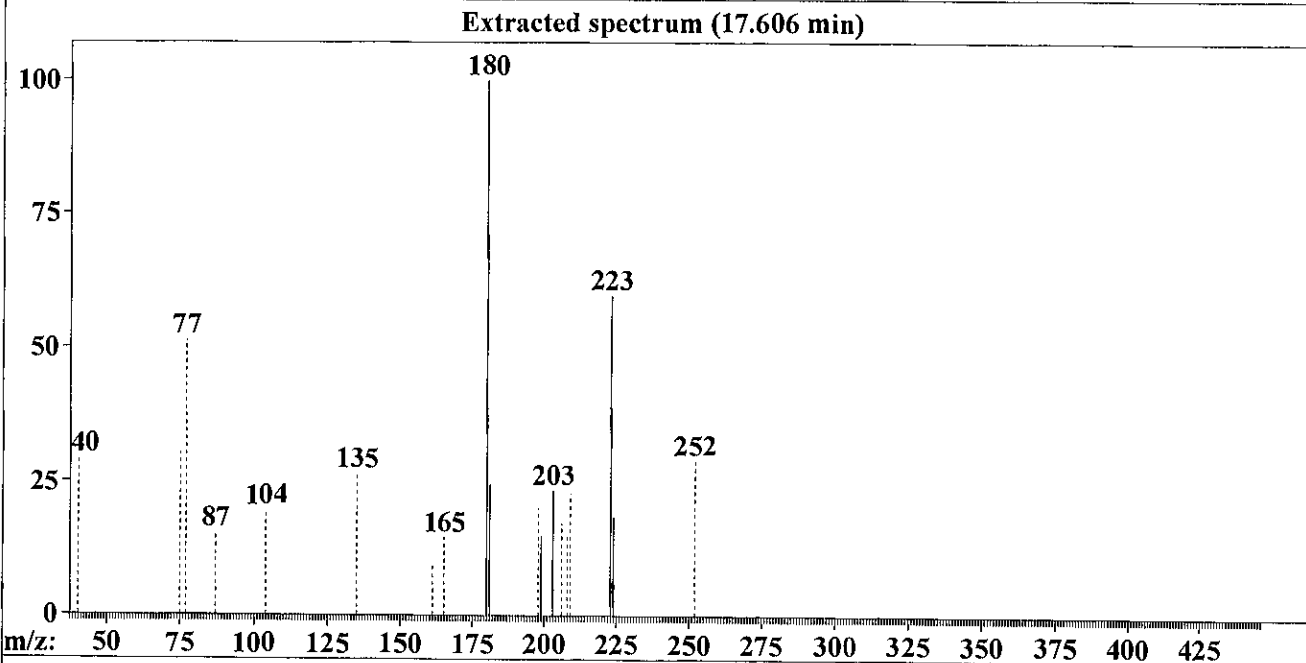
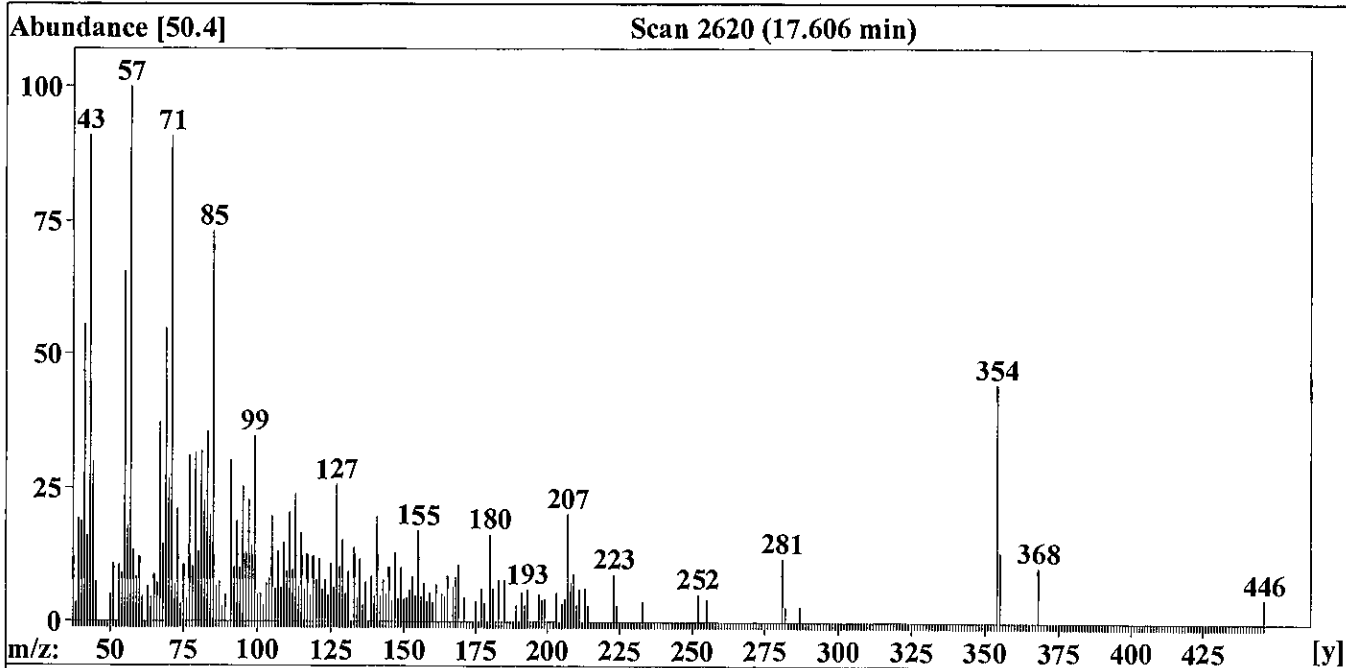












MSD Deconvolution Report
 Sample Name: Pos QC2-180920L-Q-10
 Data File: D:\DATA\2018\AND\AND_20180924B_TS\2018-09-24-1128.b\08_180920L-Q-10.D
 Date/Time: 4:05:02 PM Monday, September 24, 2018

Adjacent Peak Subtraction = 1
 Resolution = Medium
 Sensitivity = High
 Shape Requirements = Medium

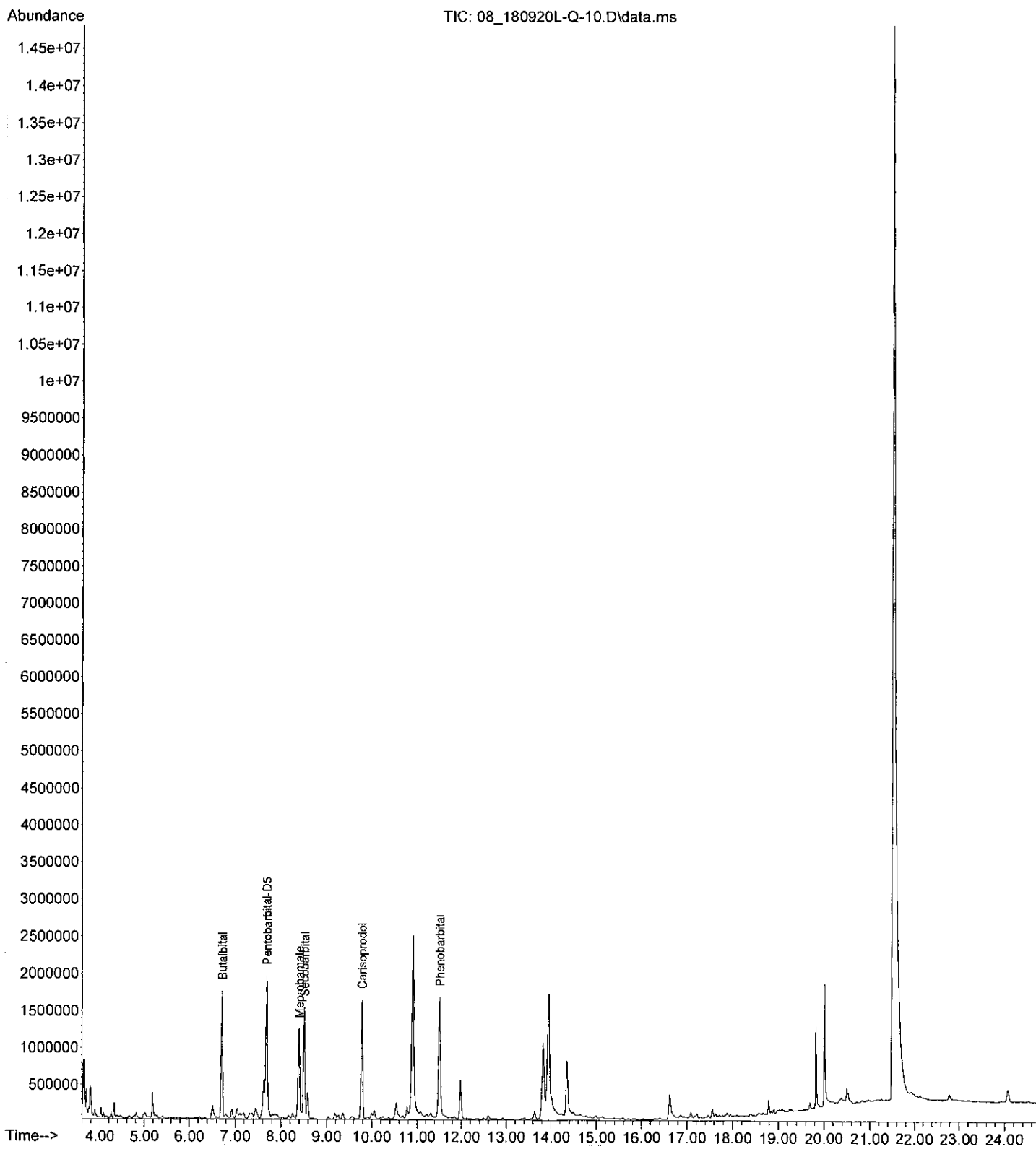
The NIST library was searched for the components that were found in the AMDIS target library.

R.T.	Cas #	Compound Name	Amount (ng/mL)		AMDIS		NIST	
			Chem station	AMDIS	Match	R.T. Diff sec.	Reverse Match	Hit Num.
6.7185	77269	Butalbital			100 ✓	1.3	96	1
7.6882	52944668	Pentobarbital-D5			99 ✓	1.3		
7.6882	3189488	2-Indolizine, carboxylic acid					64	1
8.4001	57534	Meprobamate			98 ✓	1.2	92	1
8.5135	76733	Secobarbital			100 ✓	-0.1	93	1
9.7870	78444	Carisoprodol			94 ✓	-1.0	92	1
11.5151	50066	Phenobarbital			99 ✓	0.0	96	1
6.716		Butalbital	1033.8 ✓					
7.689		Pentobarbital-D5	1 ✓					
8.401		Meprobamate	1031.42 ✓					
8.513		Secobarbital	889.85 ✓					
9.786		Carisoprodol	1021.97 ✓					
11.514		Phenobarbital	1045.94 ✓					

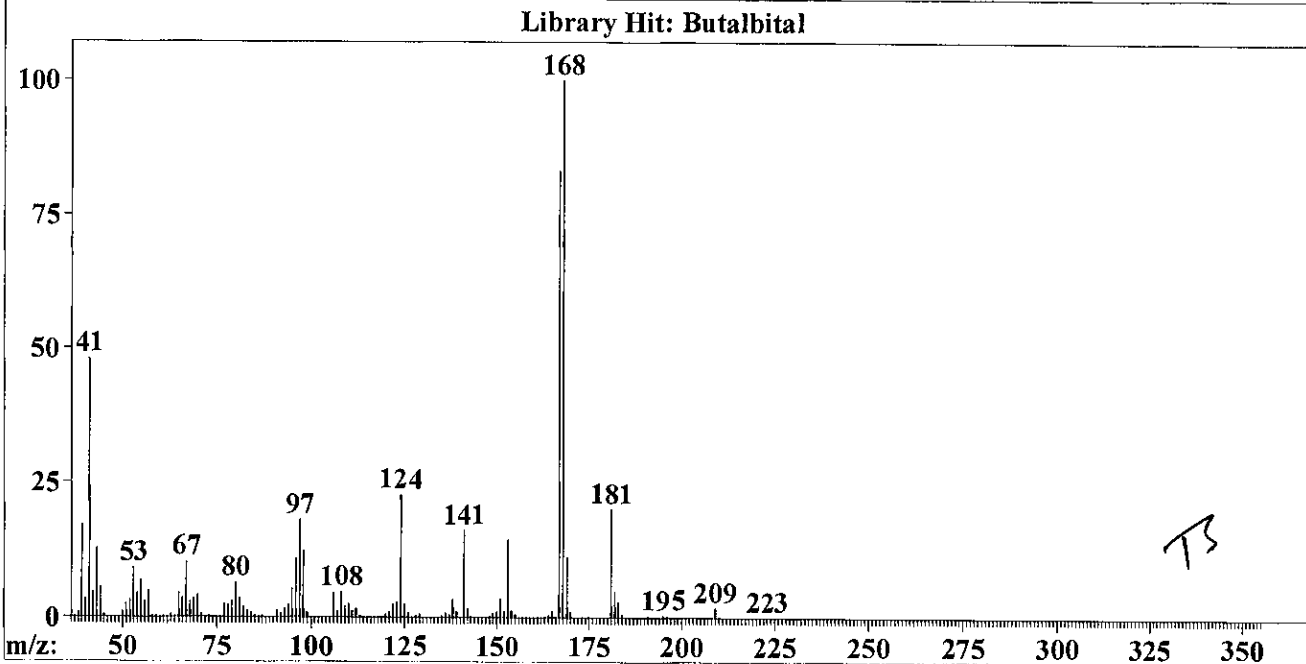
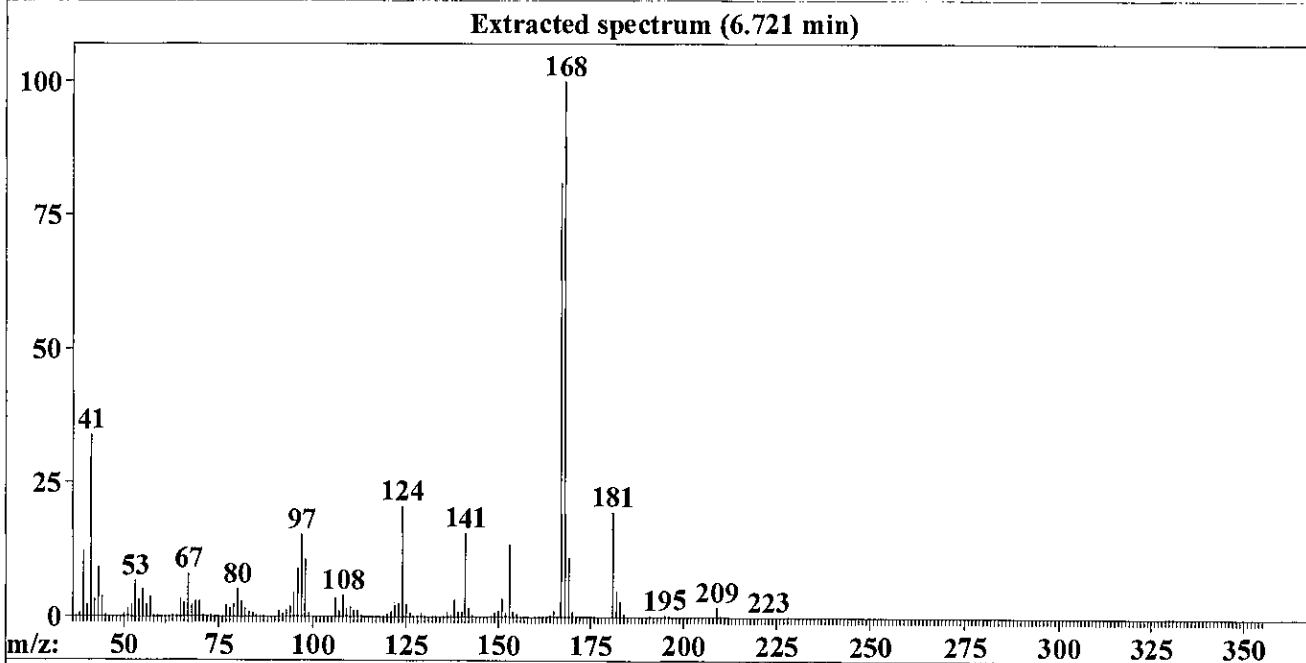
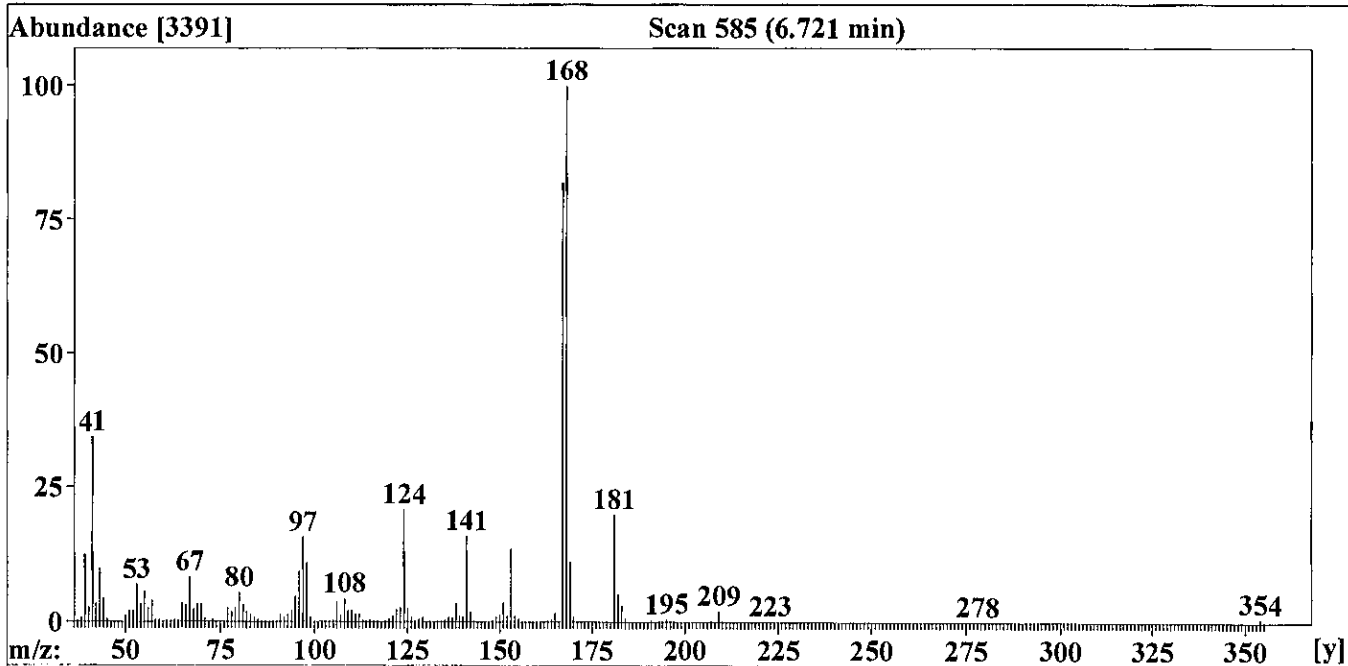
Sample meets acceptance Criteria. OK to use in casework.
 TS 9/26/18

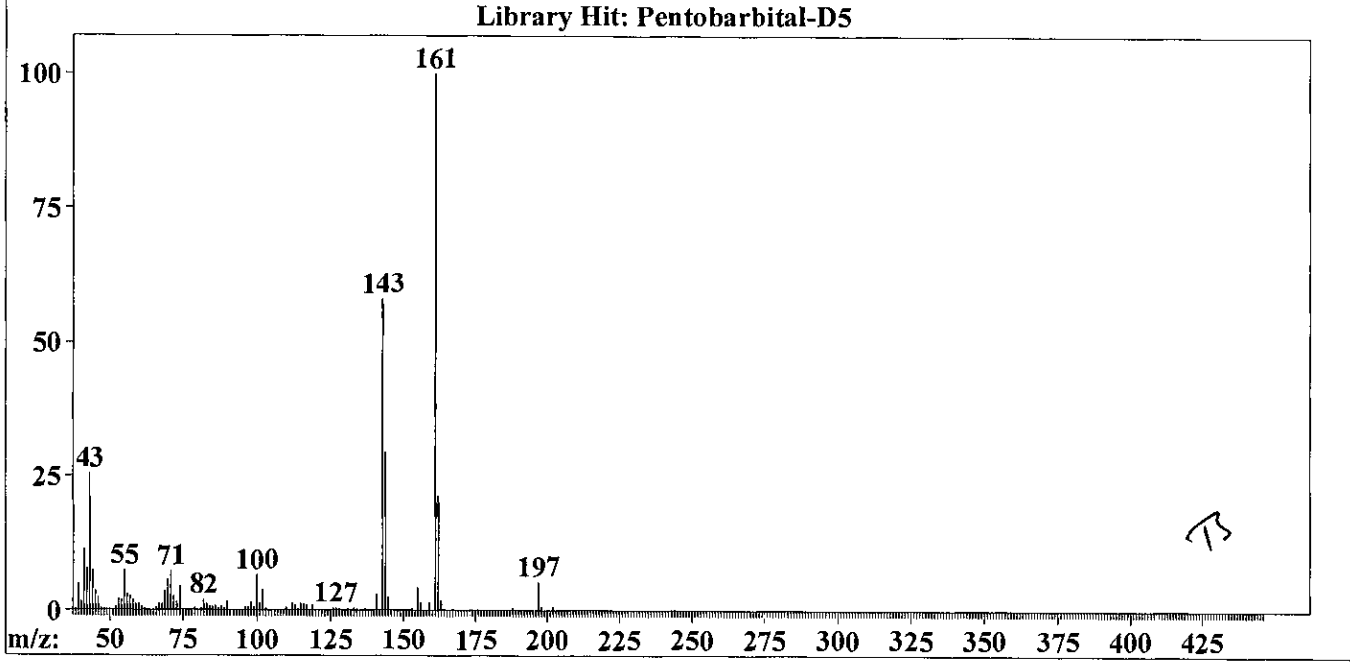
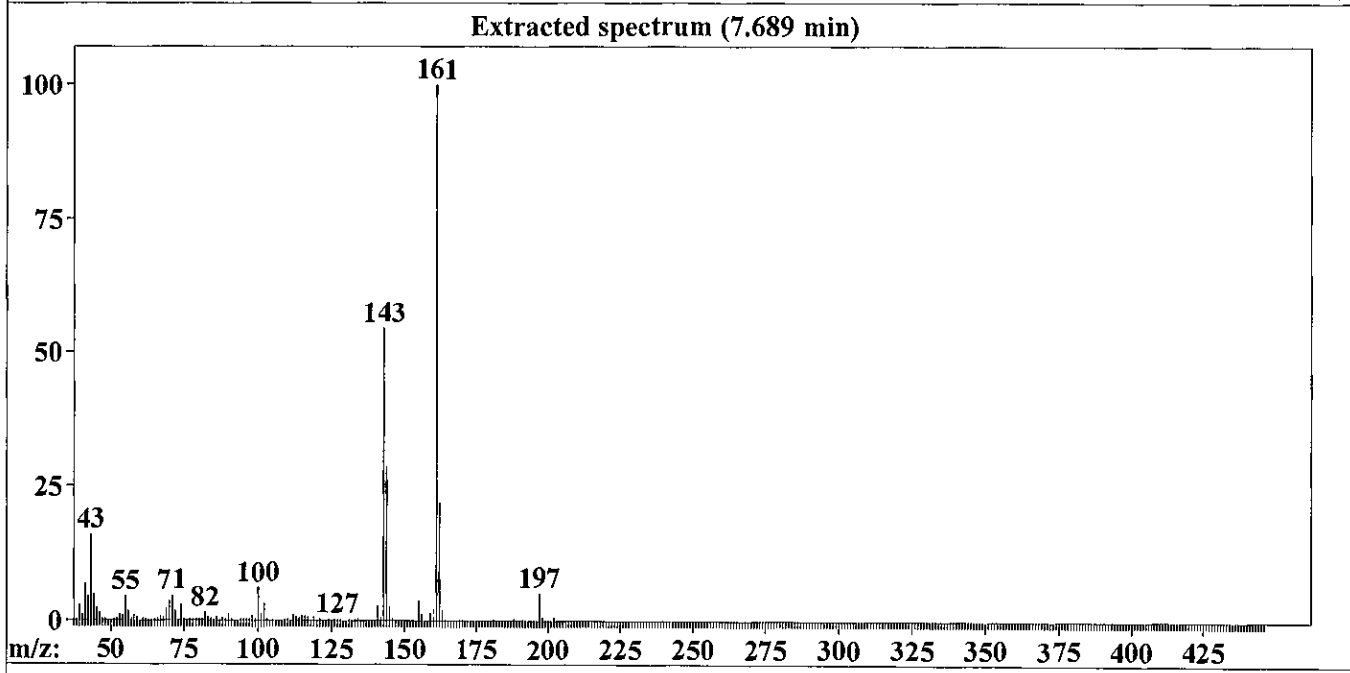
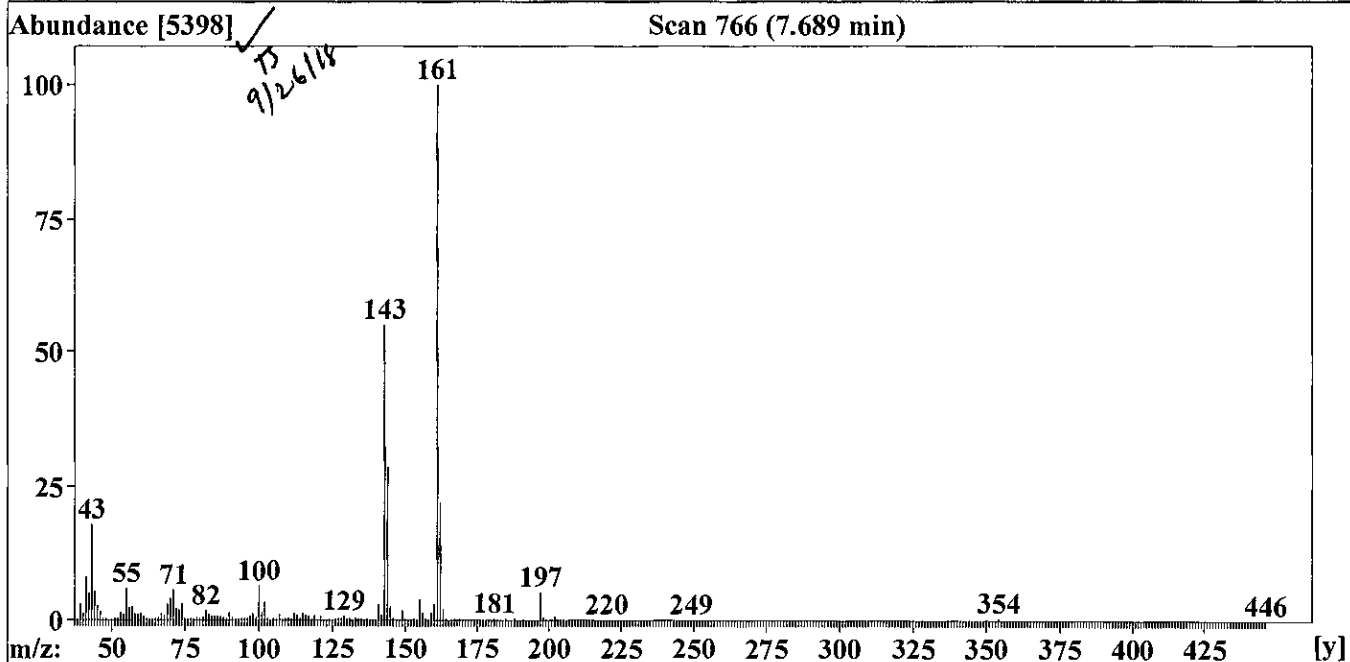
TS

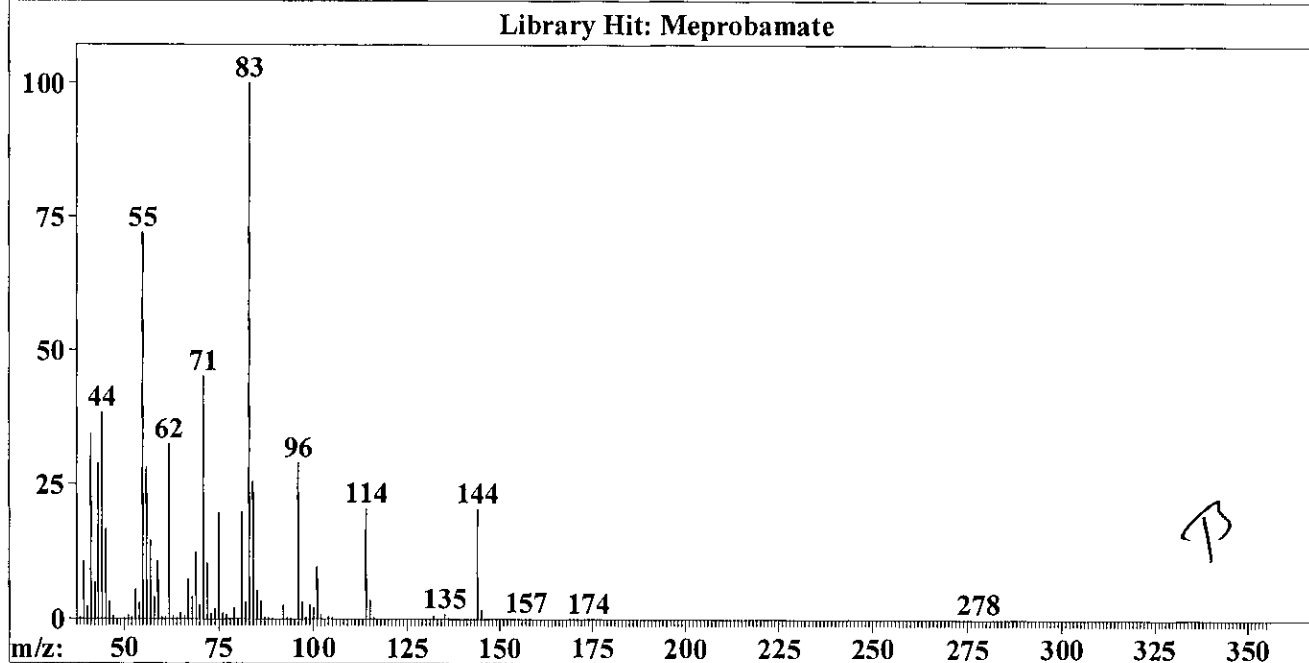
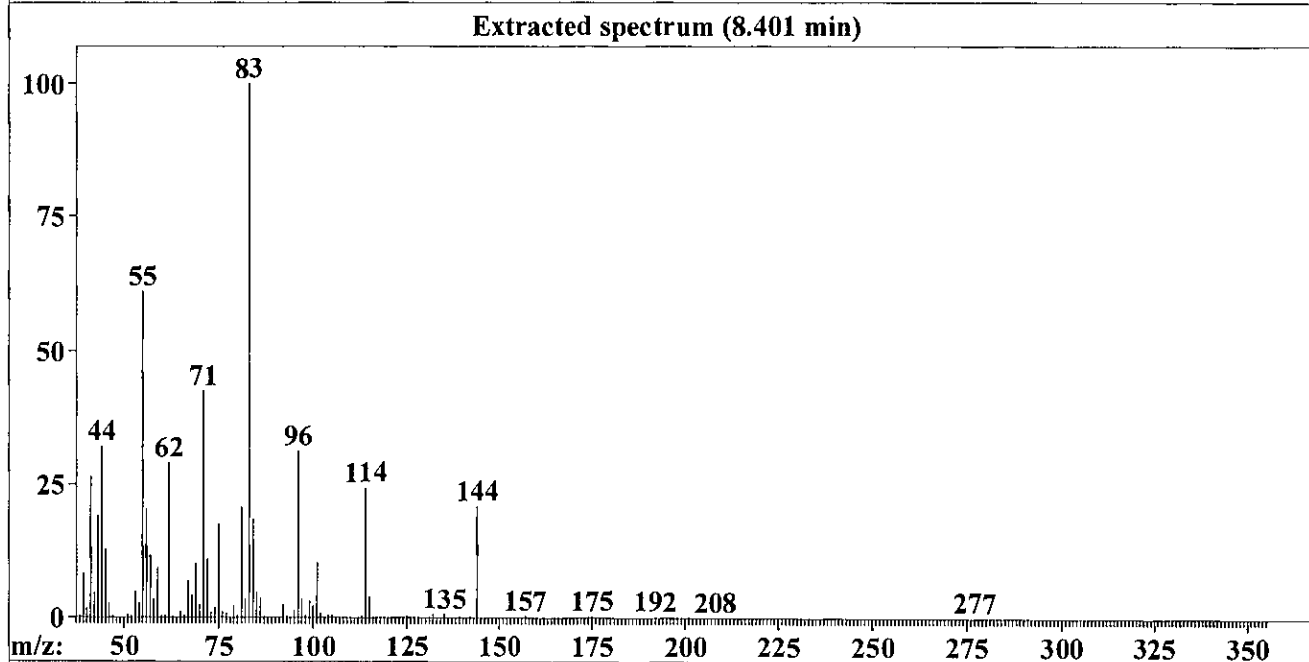
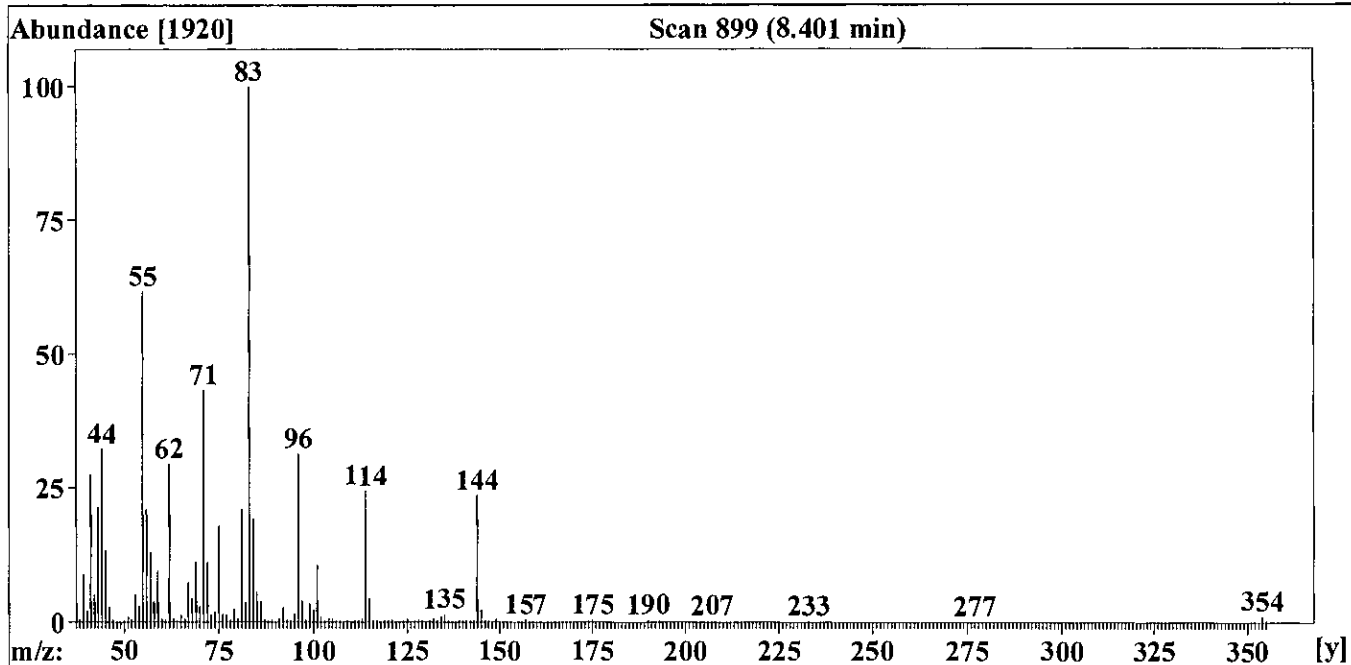
File :D:\DATA\2018\AND\AND_20180924B_TS\2018-09-24-1128.b\08_18092
... 0L-Q-10.D
Operator : Tanuja Sathiraj
Instrument : GC-MS 4
Acquired : 24 Sep 2018 15:24 using AcqMethod QCONFIRM.M
Sample Name: Pos QC2-180920L-Q-10
Misc Info :

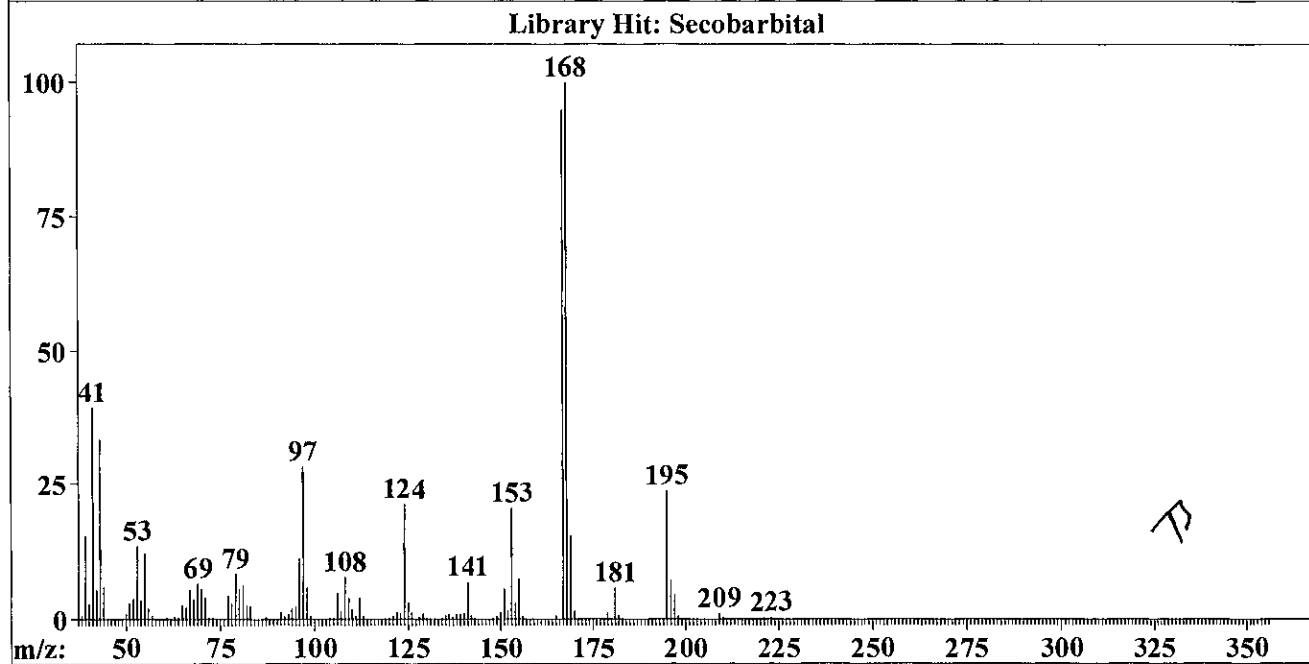
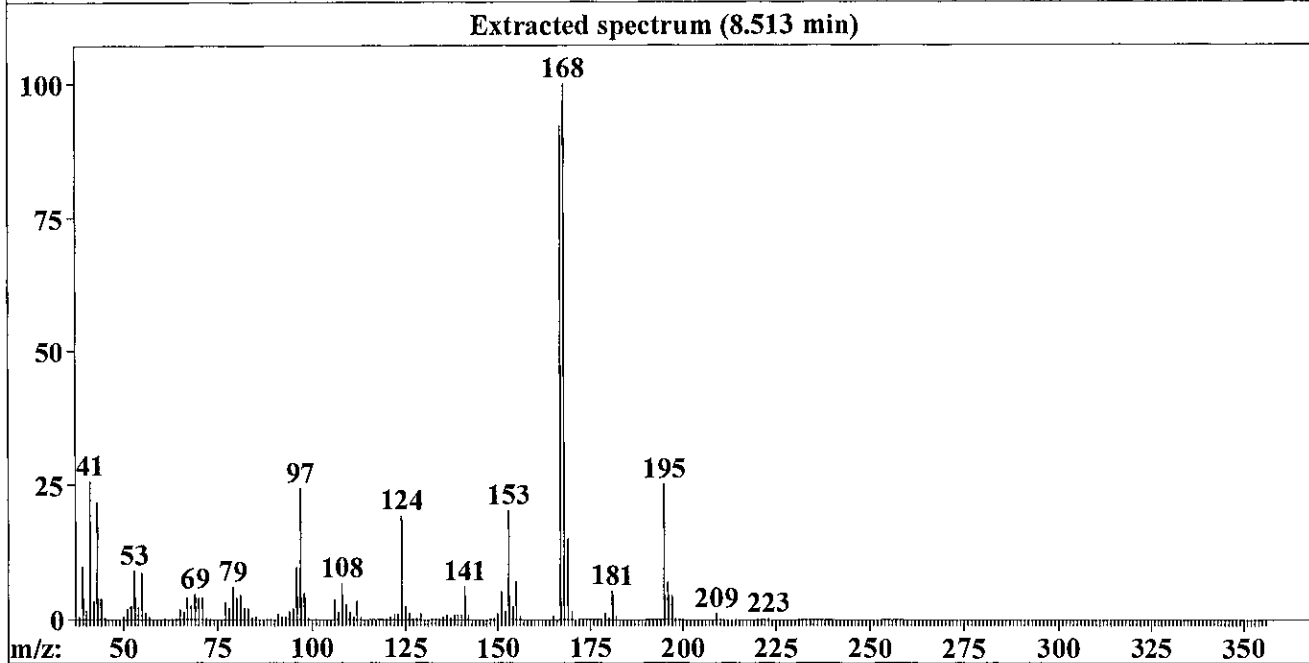
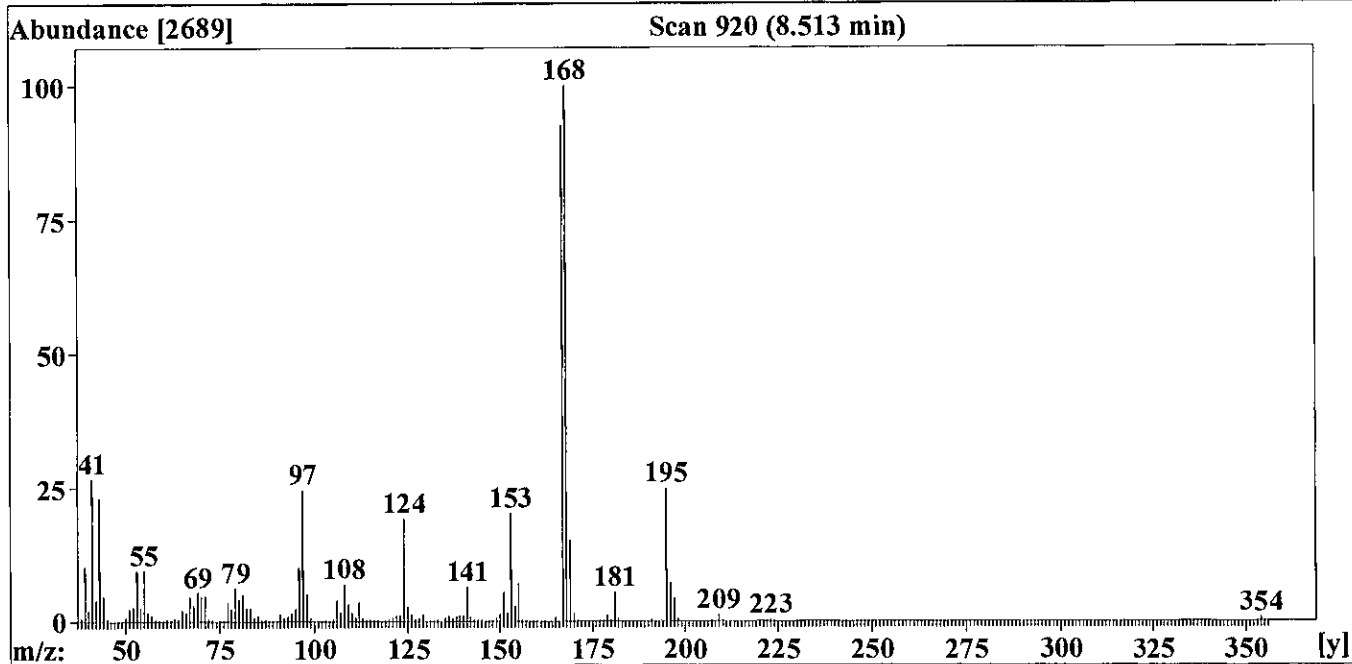


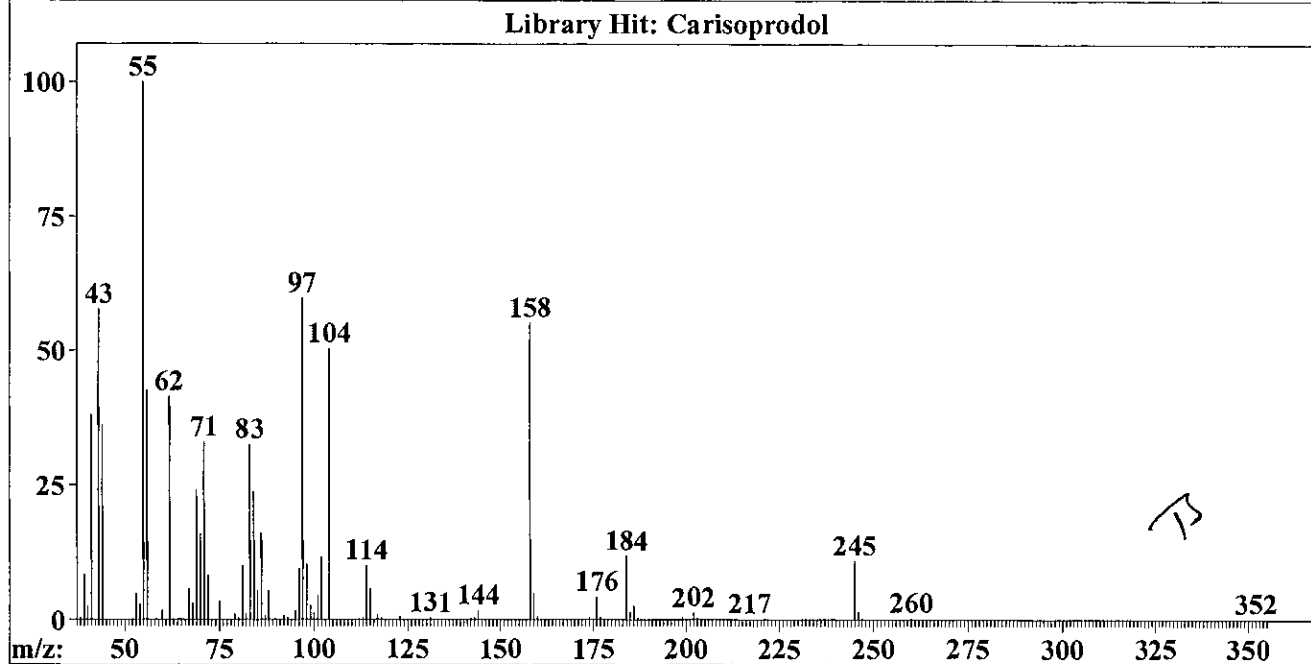
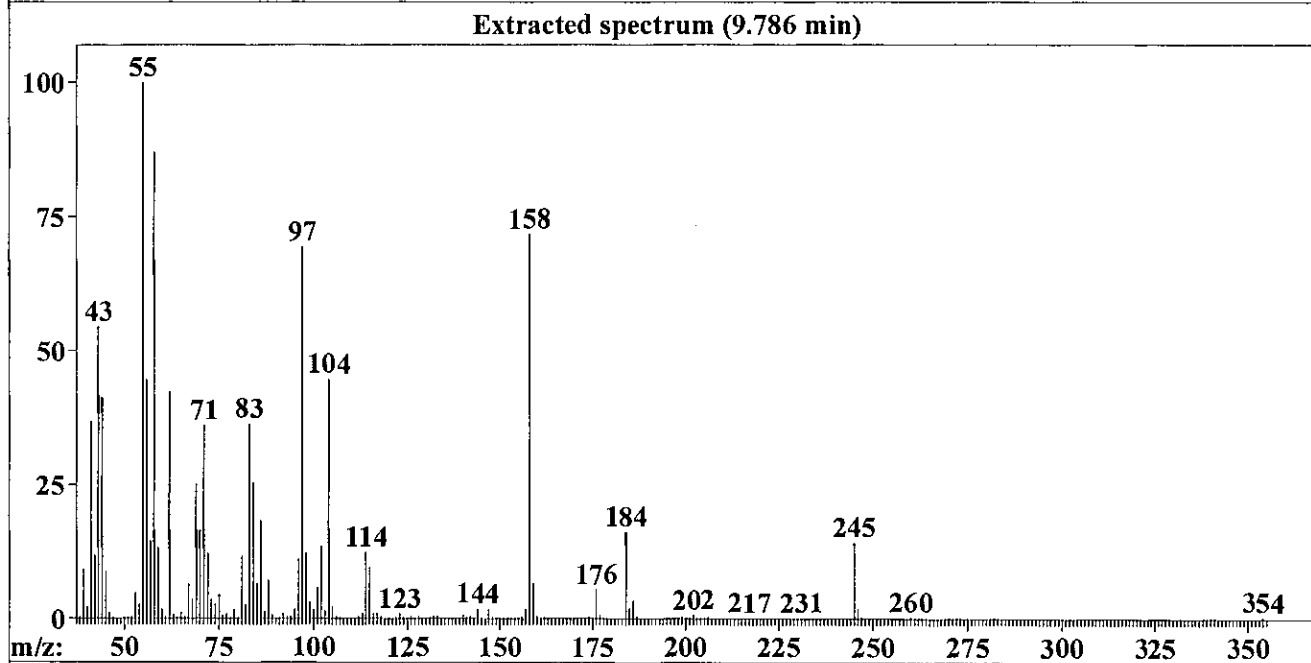
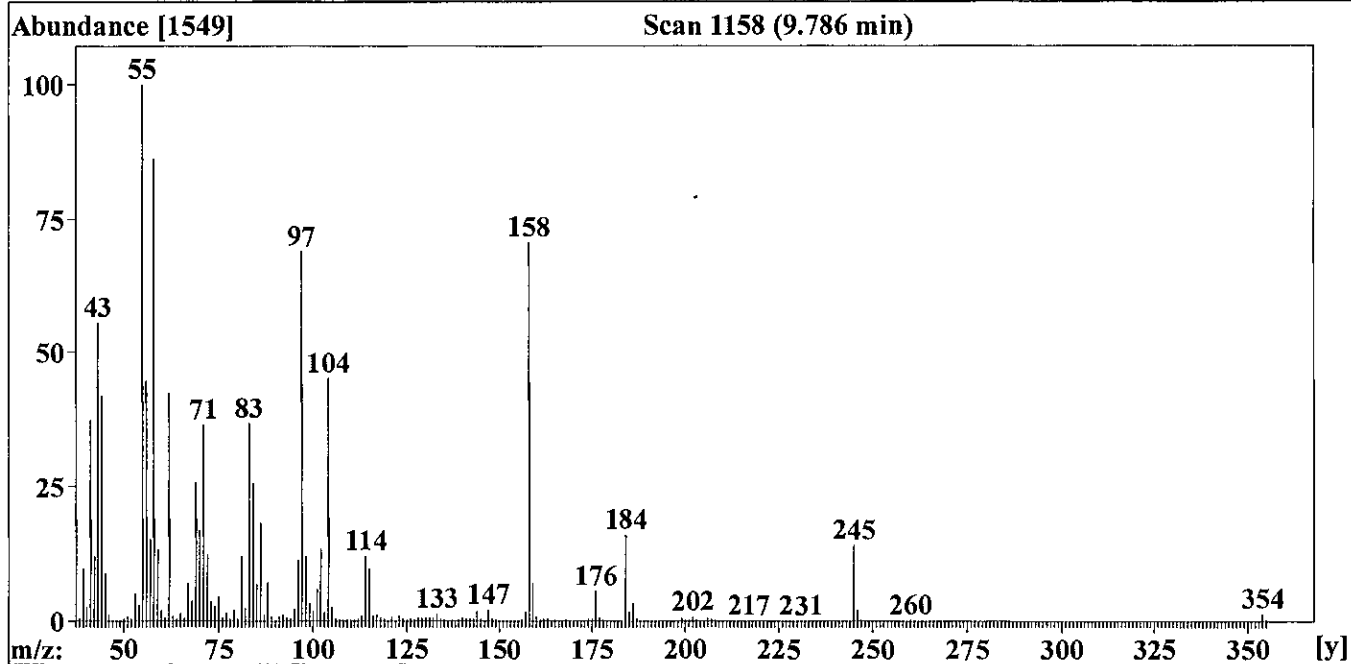
TS

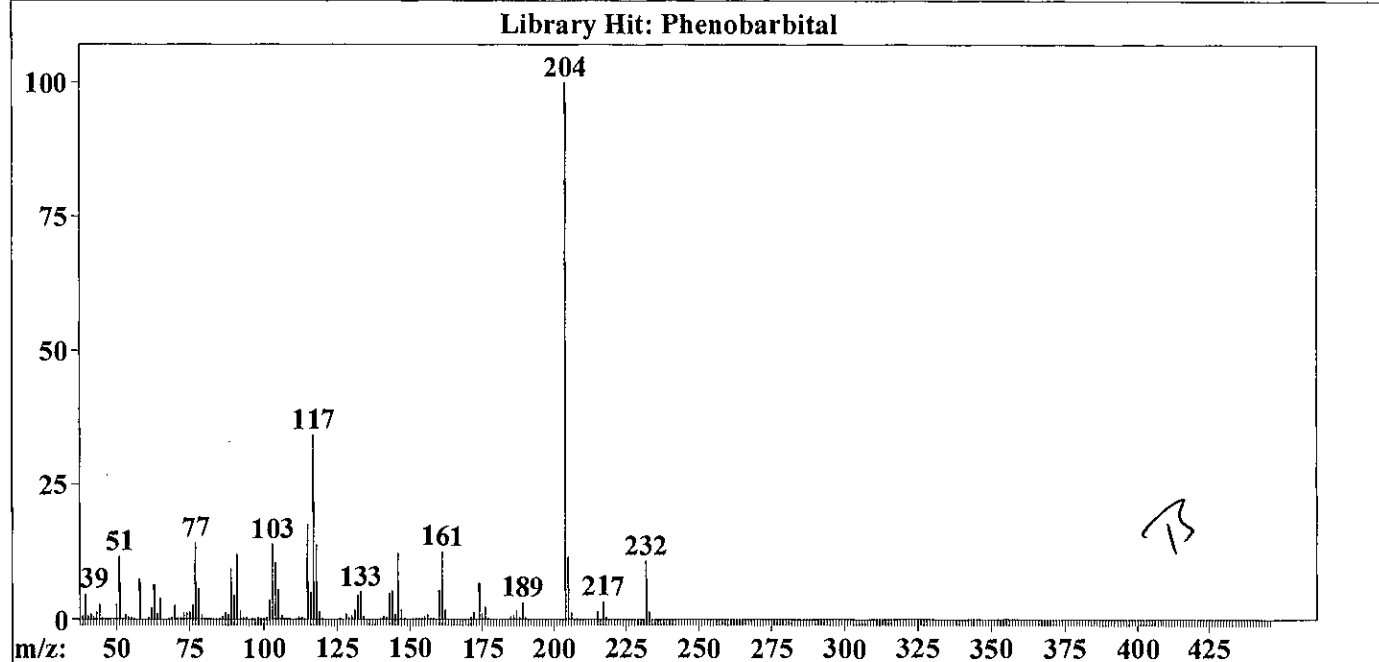
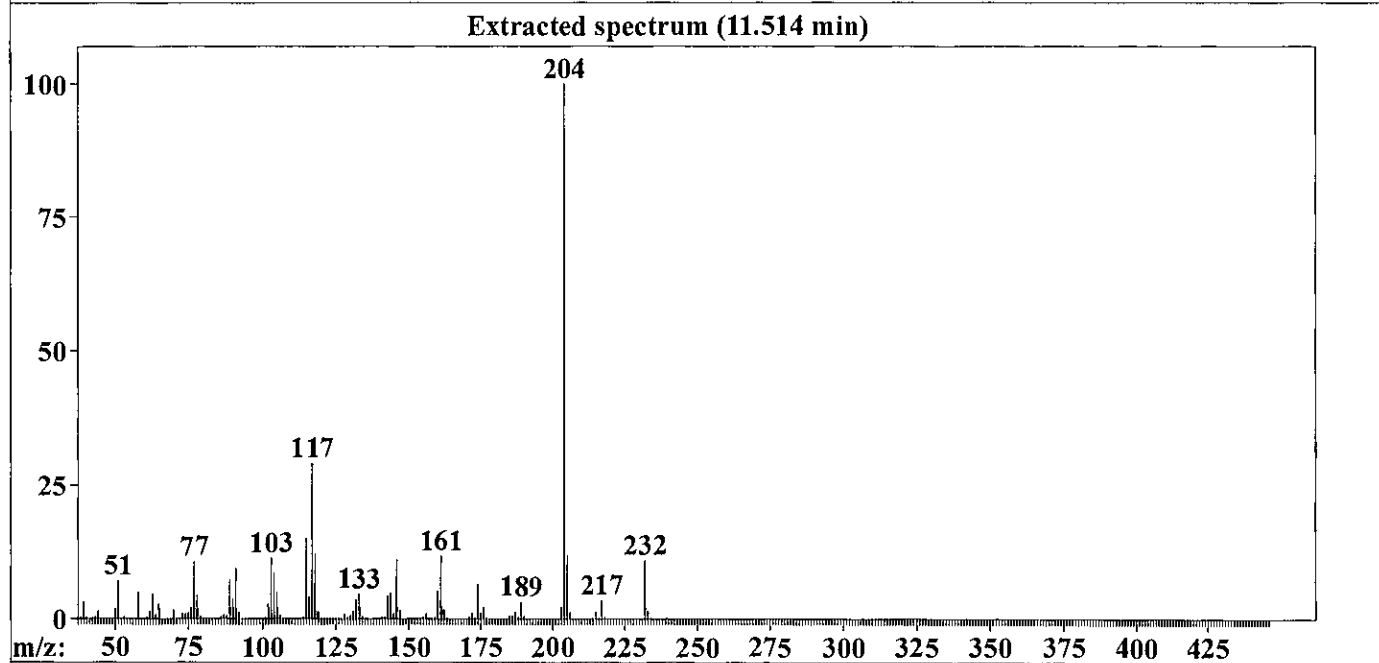
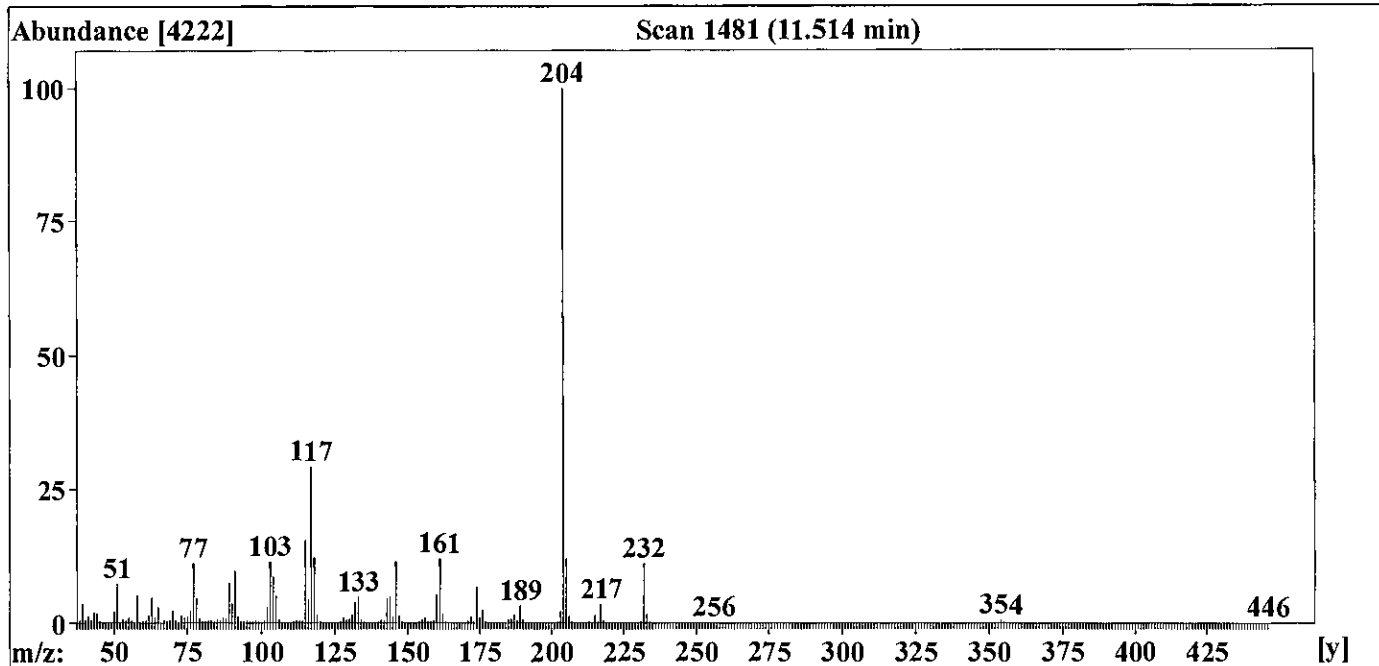












MSD Deconvolution Report
 Sample Name: 2018-08618-1.2
 Data File: D:\DATA\2018\AND\AND_20180924B_TS\2018-09-24-1128.b\05_2018_08618.D
 Date/Time: 3:02:41 PM Monday, September 24, 2018

Adjacent Peak Subtraction = 1
 Resolution = Medium
 Sensitivity = High
 Shape Requirements = Medium

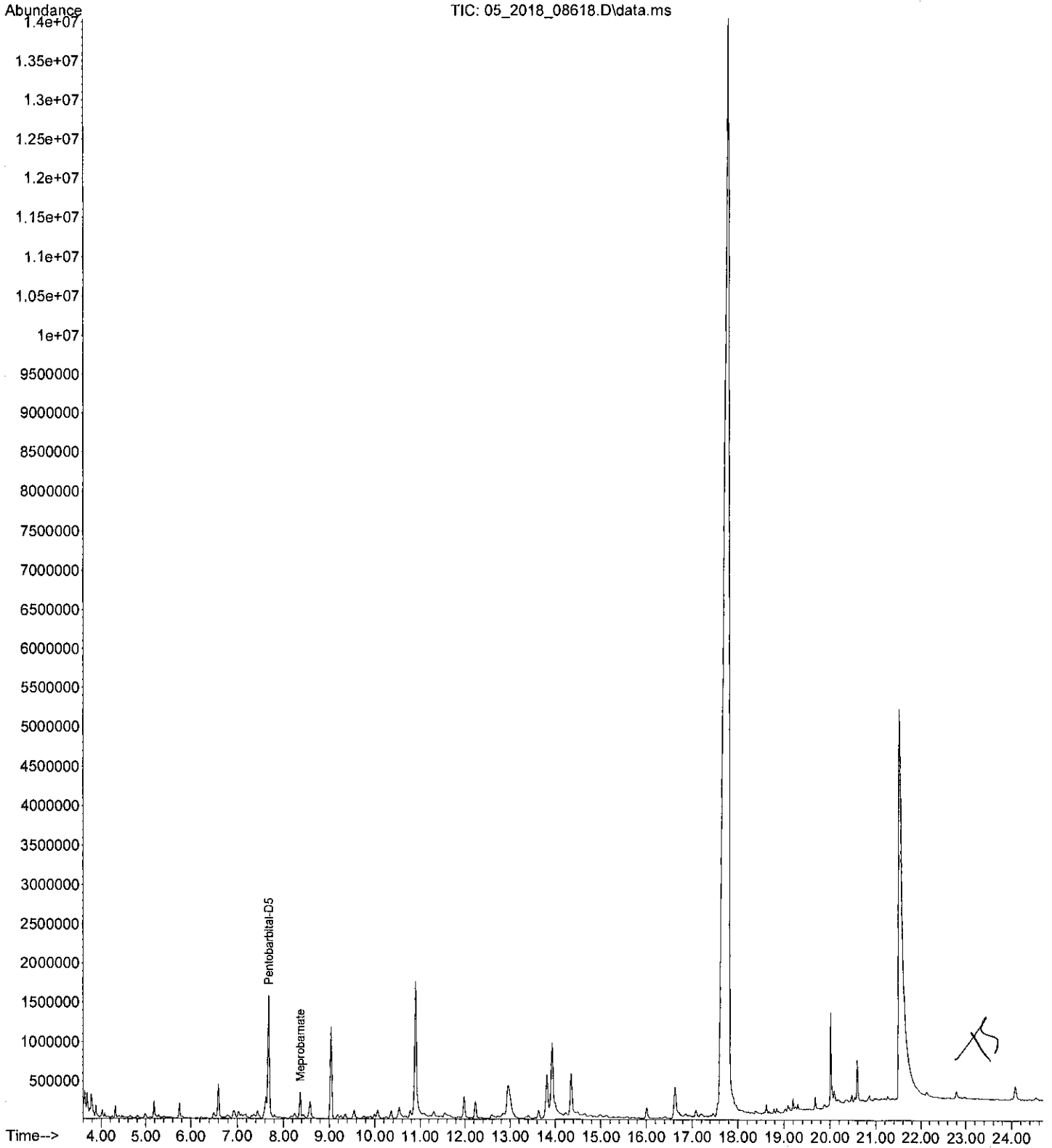
The NIST library was searched for the components that were found in the AMDIS target library.

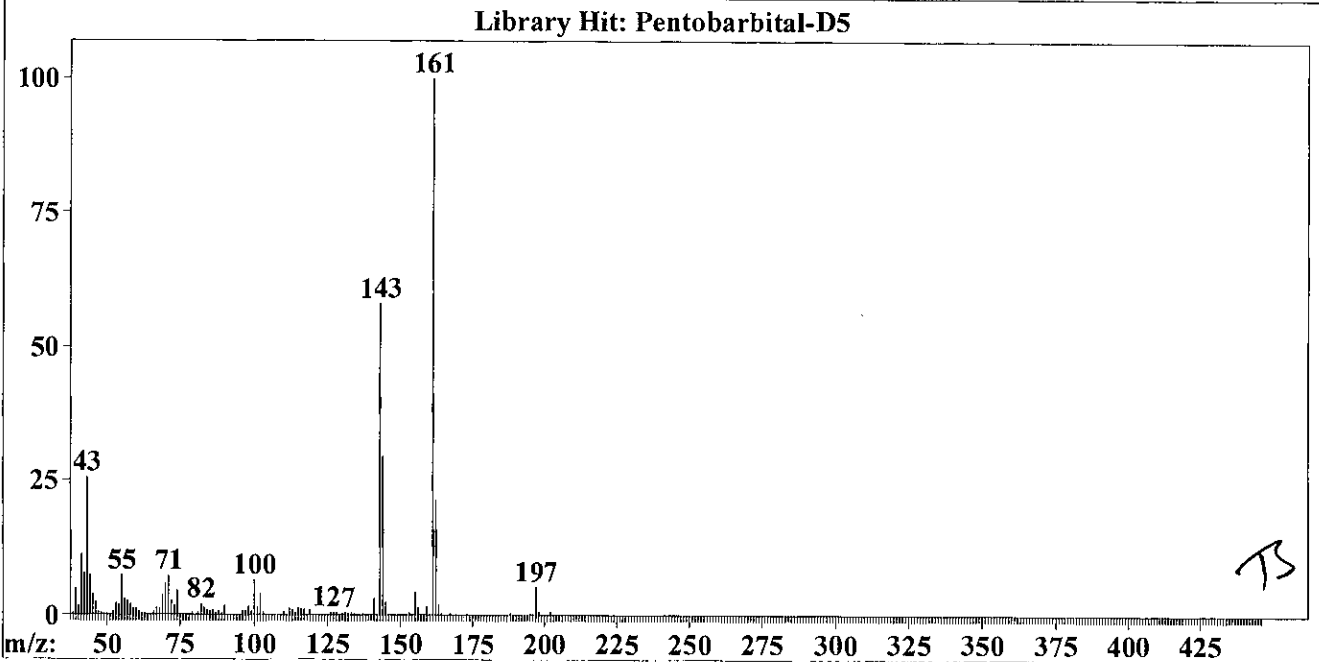
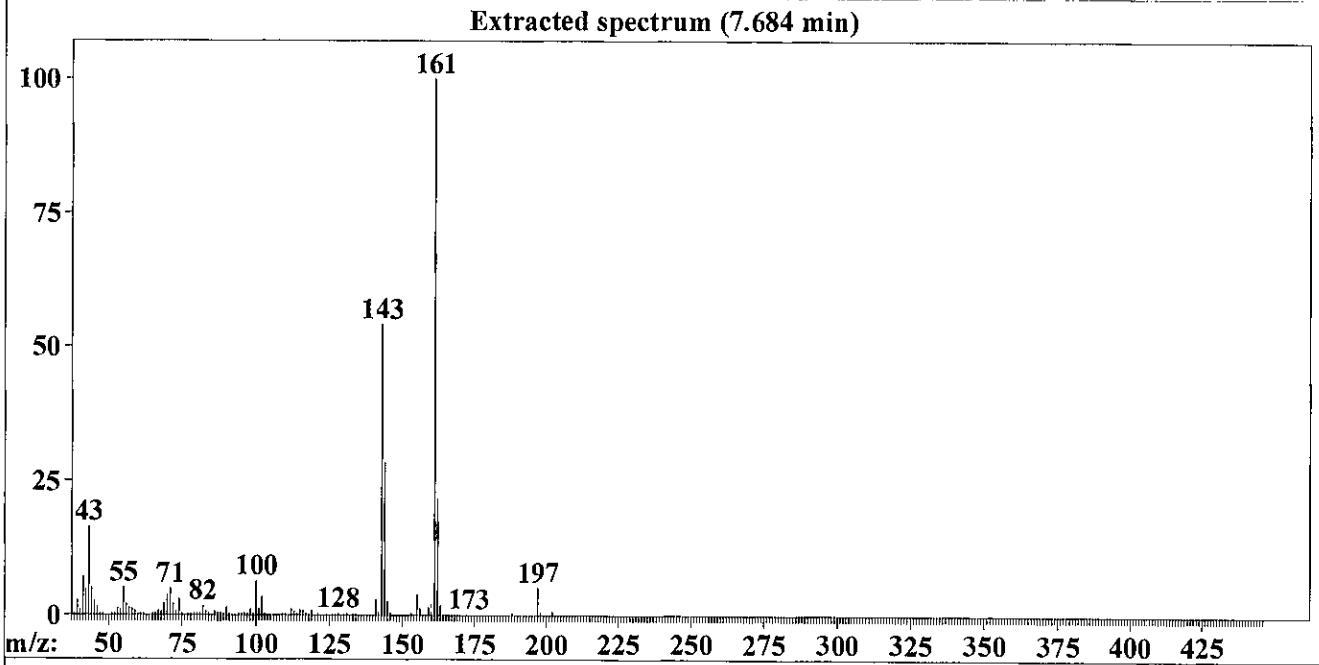
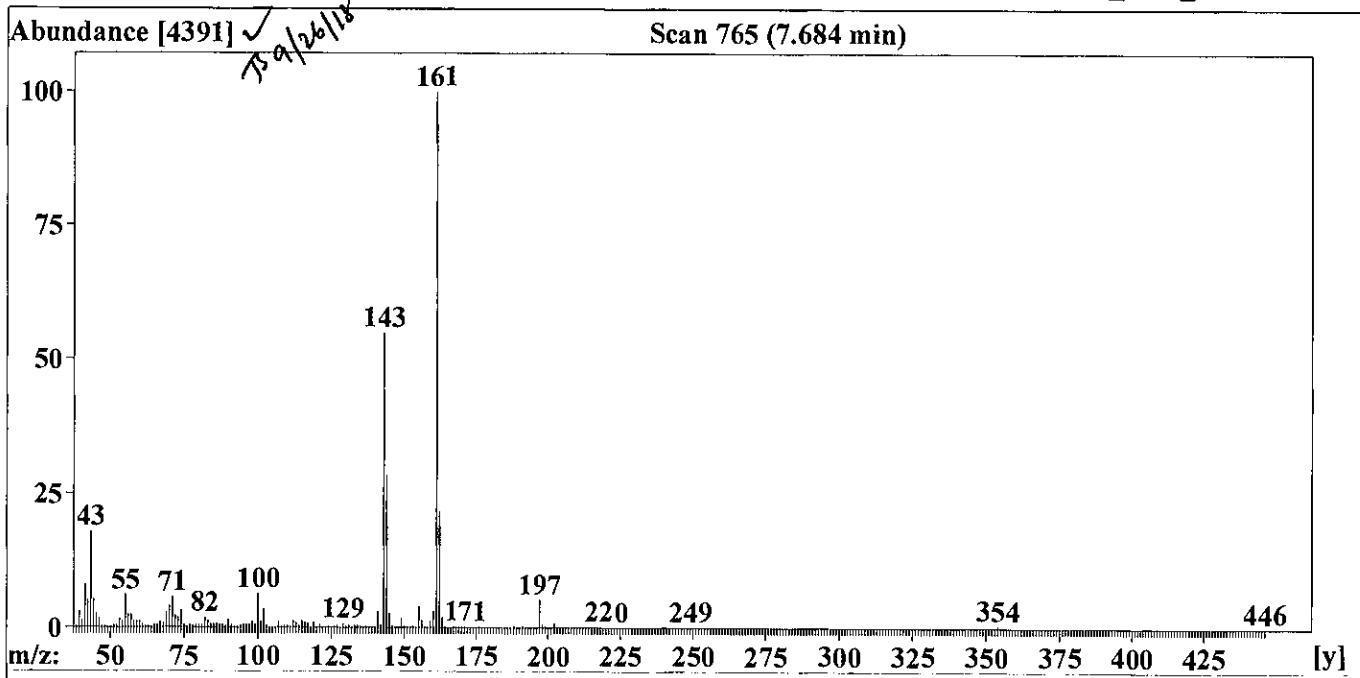
R.T.	Cas #	Compound Name	Amount (ng/mL)		AMDIS		NIST	
			Chem station	AMDIS	Match	R.T. Diff sec.	Reverse Match	Hit Num.
7.6819	52944668	Pentobarbital-D5			99 ✓	0.9		
7.6819	3189488	2-Indolizine, carboxylic acid					64	1
8.3676	57534	Meprobamate			99 ✓	-0.7	93	1
9.7668	78444	Carisoprodol			65 ✓	-2.2	70	1
17.7154	57410	Phenytoin			90 ✓	8.6	83	1
7.679		Pentobarbital-D5	1	✓				
8.369		Meprobamate	274.71	✓				

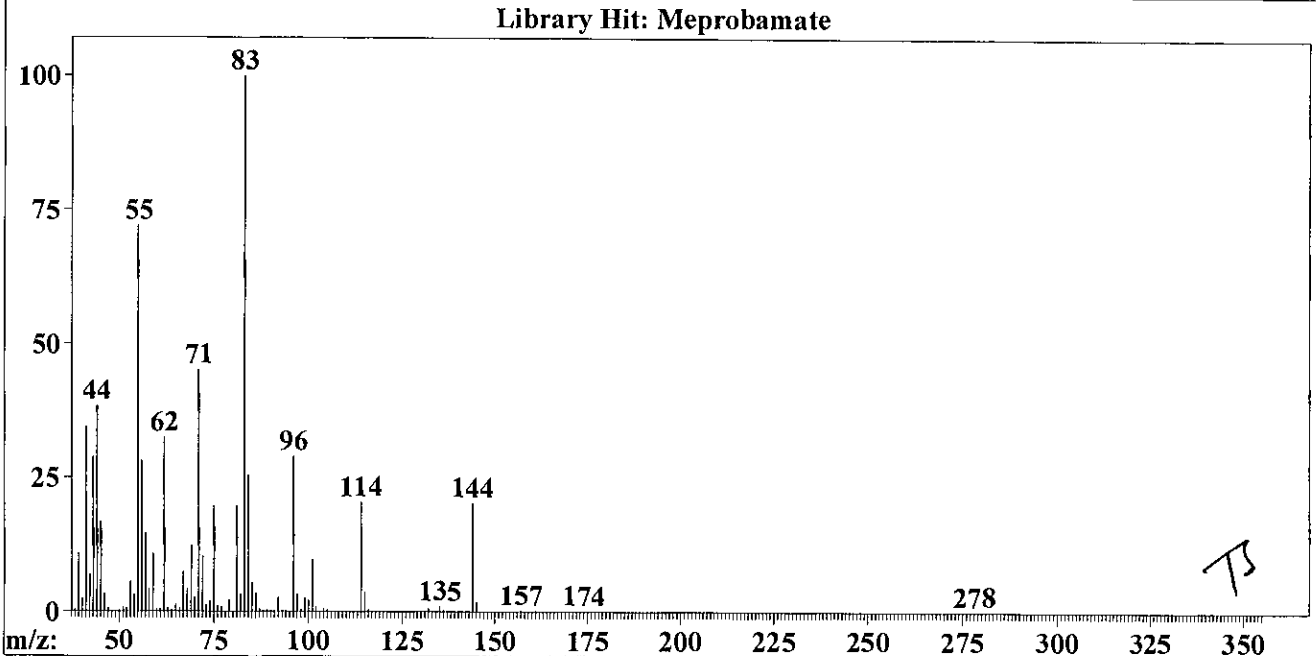
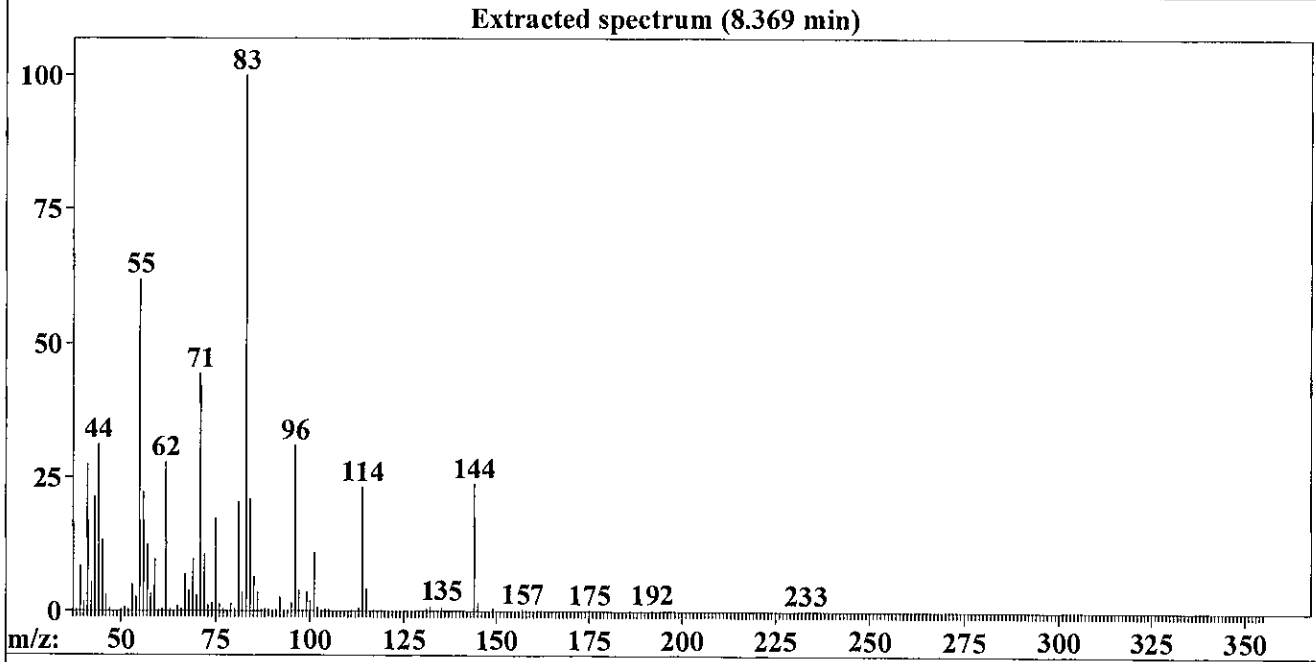
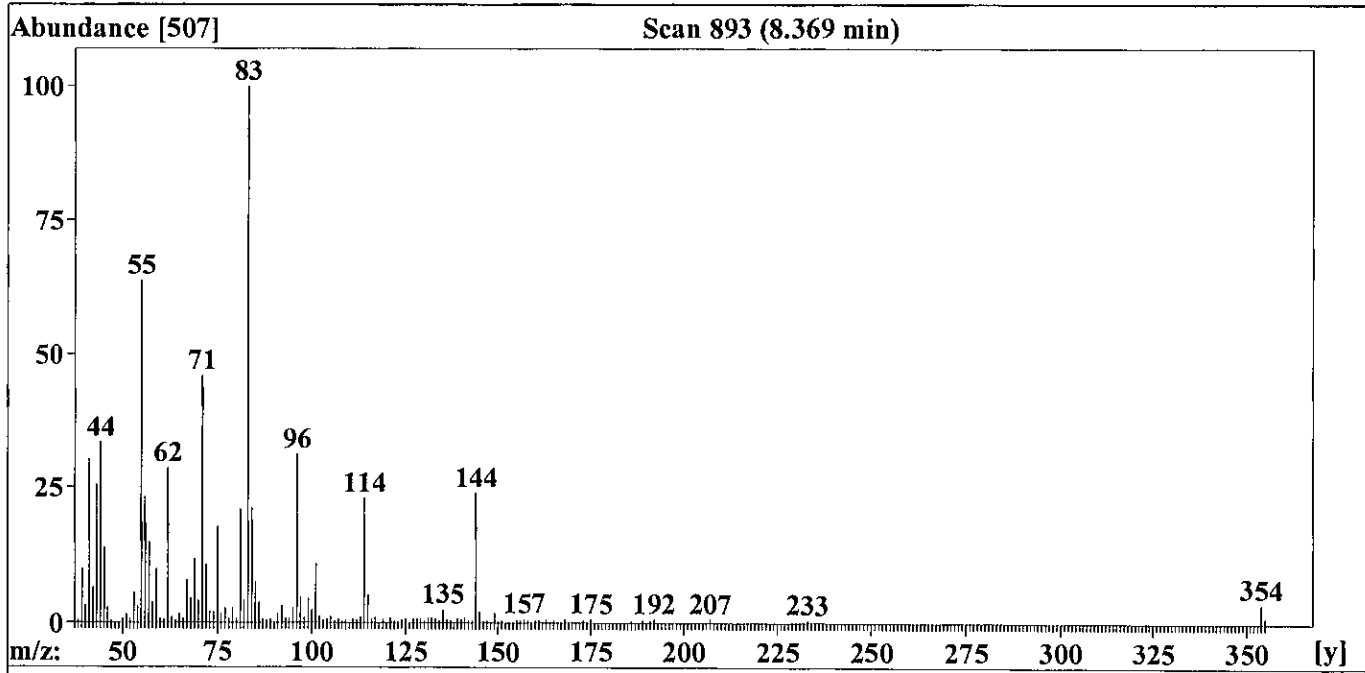
Meprobamate less than cut off. Sample negative. TS 9/26/18

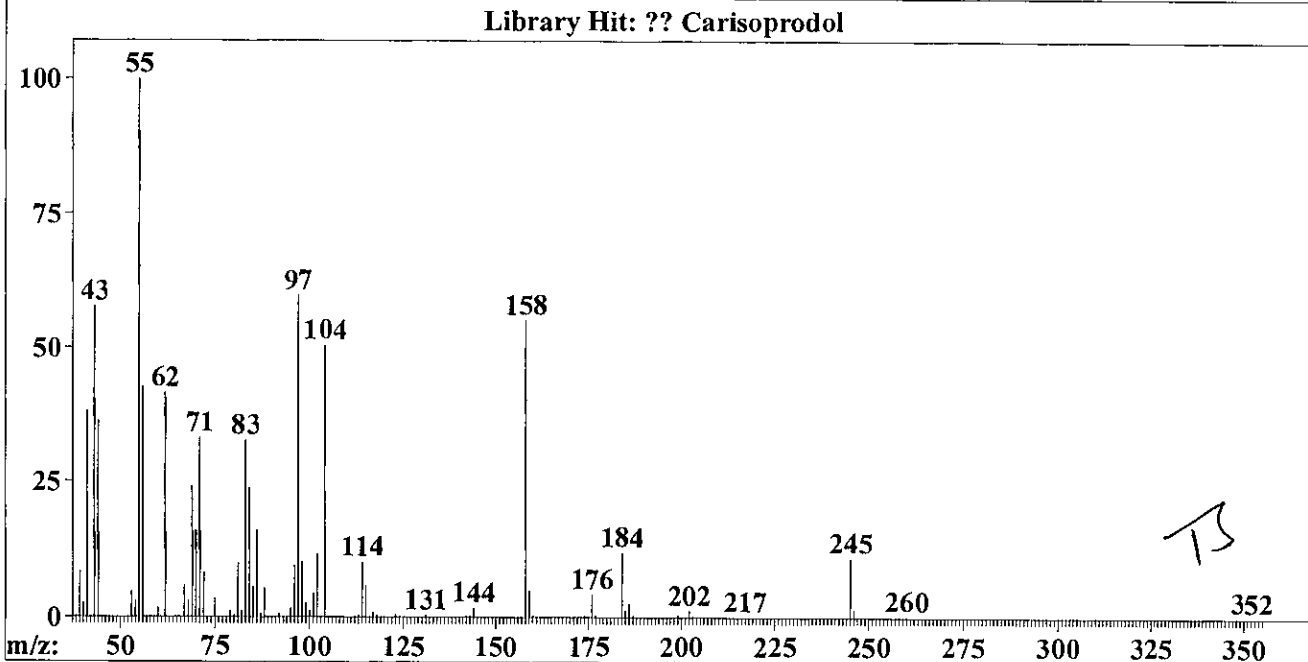
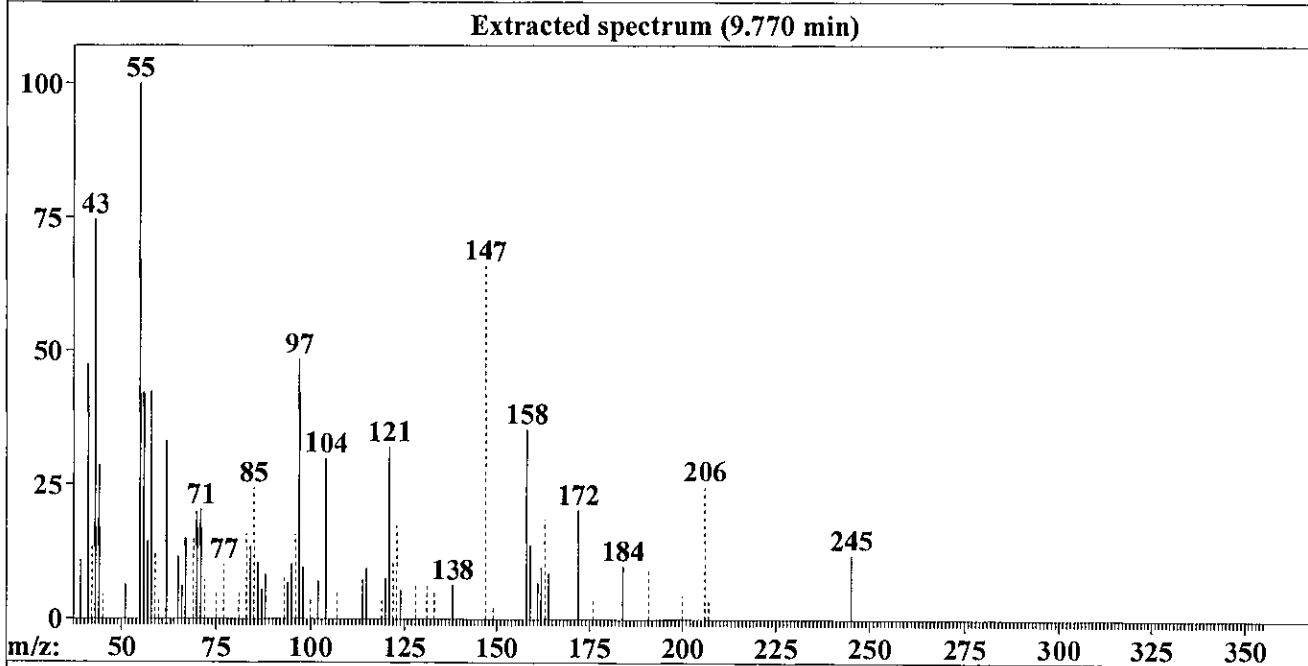
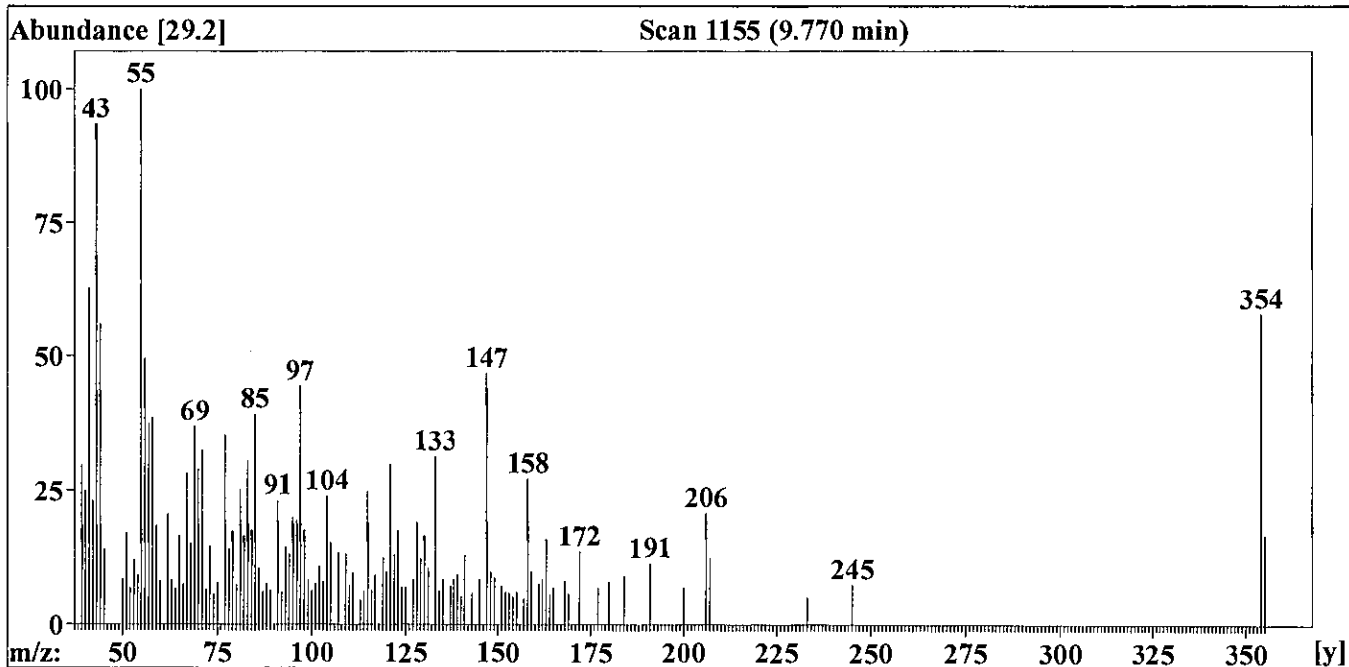
AS

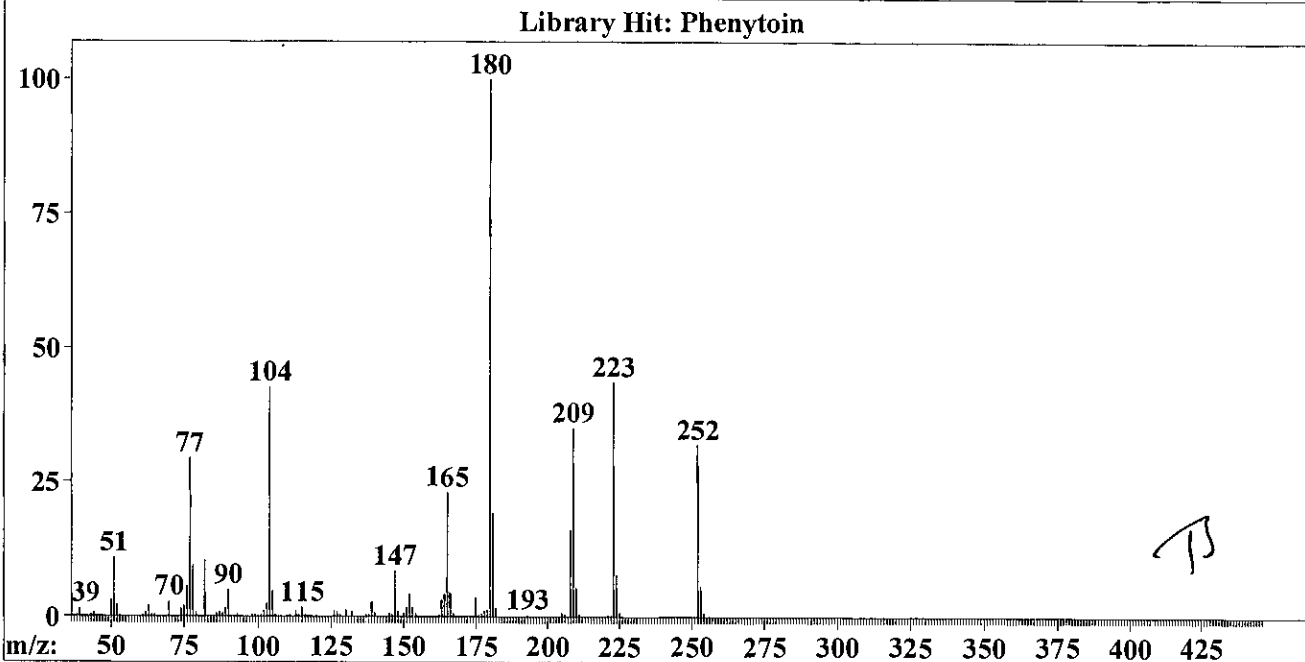
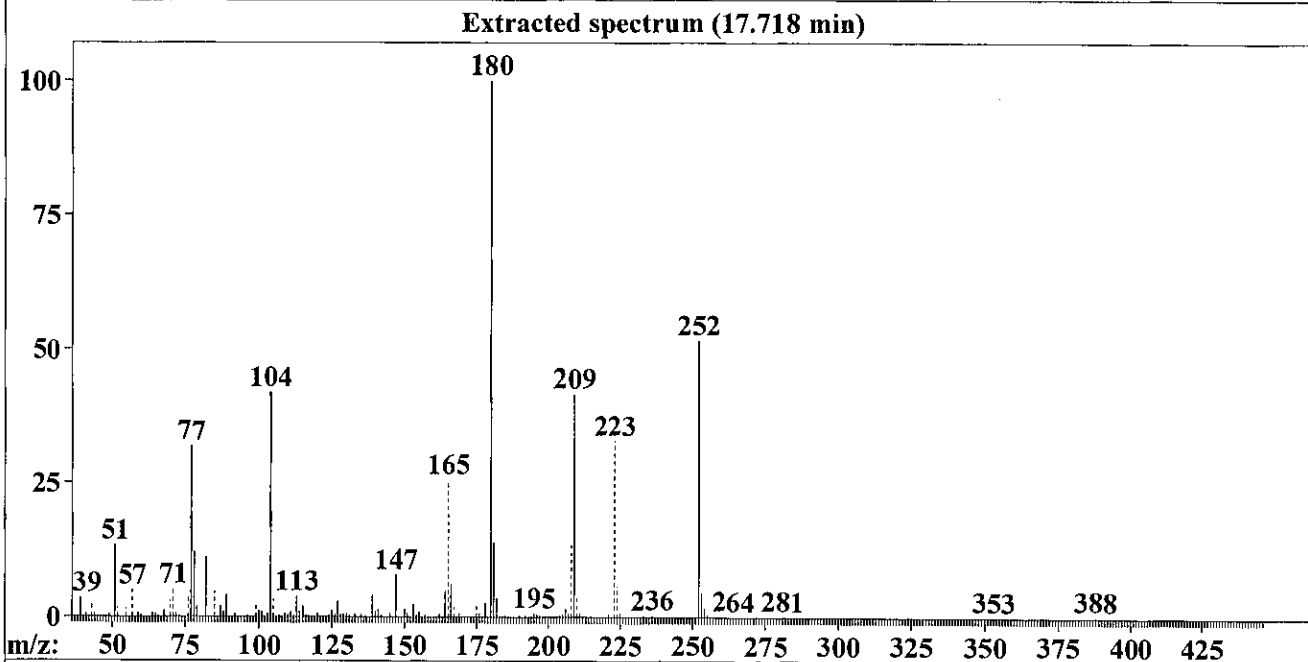
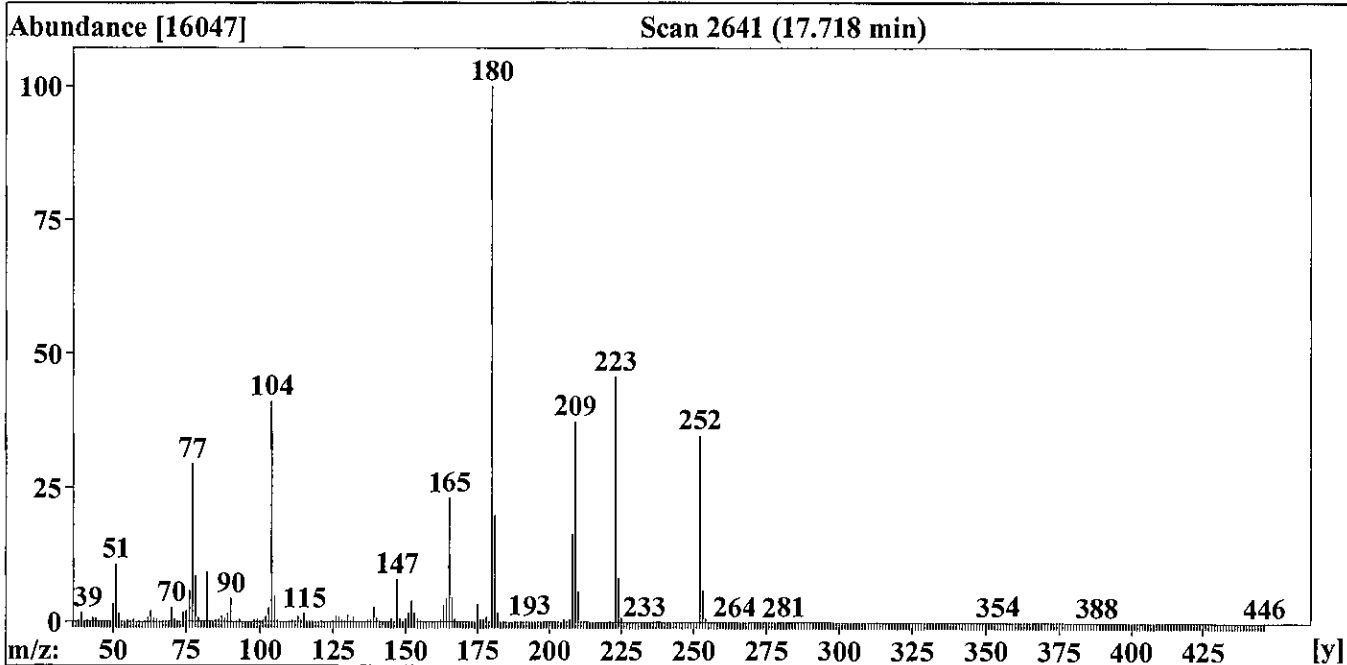
File :D:\DATA\2018\AND\AND_20180924B_TS\2018-09-24-1128.b\05_2018_08618.D
Operator : Tanuja Sathiraj
Instrument : GC-MS 4
Acquired : 24 Sep 2018 13:42 using AcqMethod QCONFIRM.M
Sample Name: 2018-08618-1.2
Misc Info :











MSD Deconvolution Report
 Sample Name: 2018-09636-1.1
 Data File: D:\DATA\2018\AND\AND_20180924B_TS\2018-09-24-1128.b\06_2018_09636.D
 Date/Time: 3:03:50 PM Monday, September 24, 2018

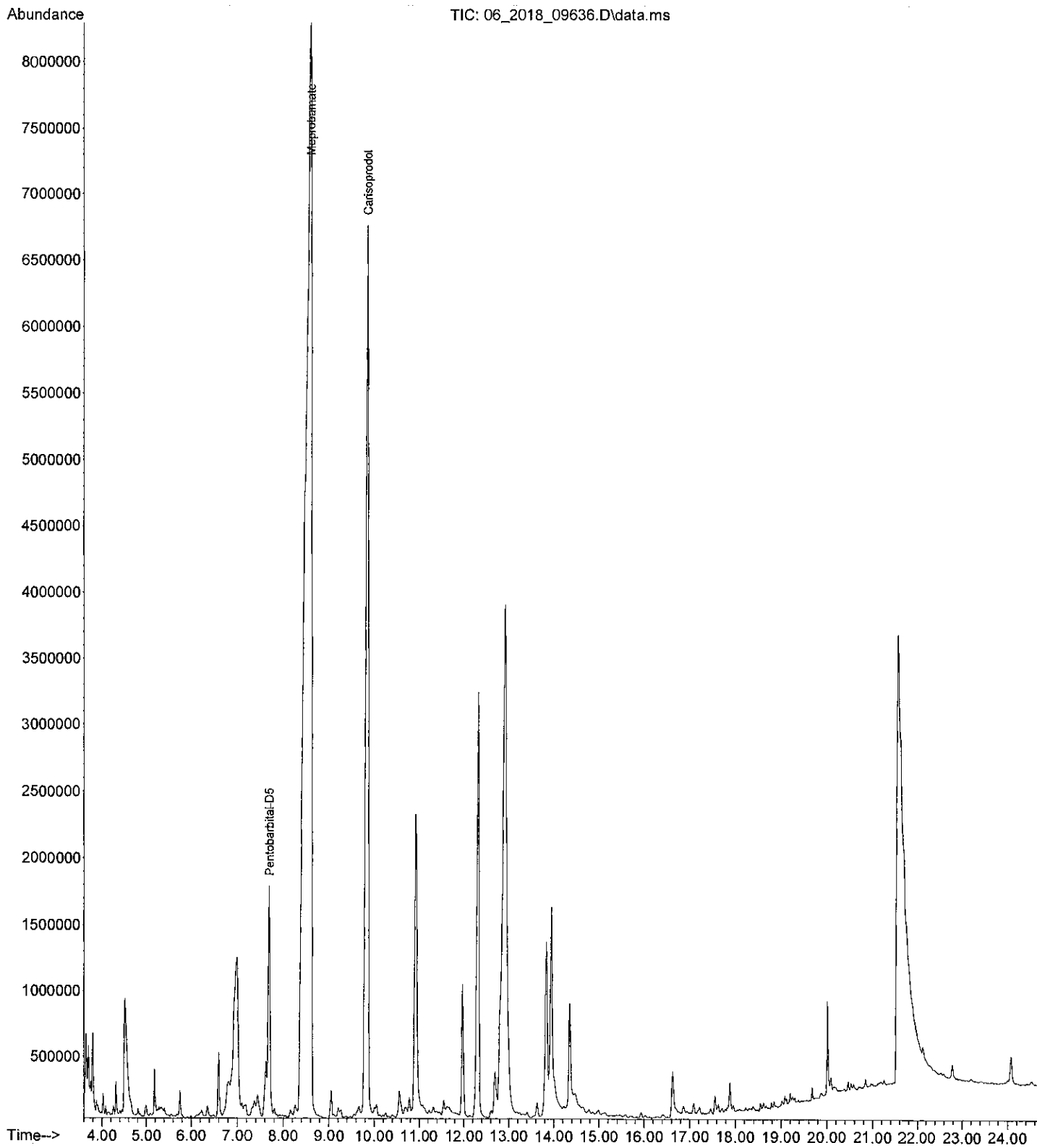
Adjacent Peak Subtraction = 1
 Resolution = Medium
 Sensitivity = High
 Shape Requirements = Medium

The NIST library was searched for the components that were found in the AMDIS target library.

R.T.	Cas #	Compound Name	Amount (ng/mL)		AMDIS		NIST	
			Chem station	AMDIS	Match	R.T. Diff sec.	Reverse Match	Hit Num.
7.6946	52944668	Pentobarbital-D5			99✓	1.7		
7.6946	3189488	2-Indolizine, carboxylic acid					63	1
8.4776	57534	Meprobamate			96✓	5.6	88	1
9.8661	78444	Carisoprodol			95✓	3.7	93	1
17.6142	57410	Phenytoin			88	2.4	78	2
7.695		Pentobarbital-D5		1 ✓				
8.62		Meprobamate		26546.26 ✓				
9.866		Carisoprodol		7053.9 ✓				

TS

File :D:\DATA\2018\AND\AND_20180924B_TS\2018-09-24-1128.b\06_2018_09636.D
Operator : Tanuja Sathiraj
Instrument : GC-MS 4
Acquired : 24 Sep 2018 14:15 using AcqMethod QCONFIRM.M
Sample Name: 2018-09636-1.1
Misc Info :



TS

