

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041923\
 Data File : VL040397.D
 Acq On : 20 Apr 2023 9:12
 Operator : SY/MD
 Sample : 02368-05 2X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VP-1A

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 04/20/2023
 Supervised By : Mahesh Dadoda 04/22/2023

Quant Time: Apr 20 10:33:19 2023

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041323AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2023

QLast Update : Thu Apr 13 14:37:02 2023

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	5.169	49	1073066	10.000	ppbv	-0.02
33) 1,4-Difluorobenzene	6.632	114	2789676	10.000	ppbv	-0.02
55) Chlorobenzene-d5	11.449	117	2559004	10.000	ppbv	-0.03

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 13.760 95 2060958 9.739 ppbv -0.03
 Spiked Amount 10.000 Range 65 - 135 Recovery = 97.400%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.709	85	98306	0.508	ppbv	91
3) Chlorodifluoromethane	2.652	51	31909m	0.228	ppbv	
4) Chloromethane	2.787	50	19844	0.224	ppbv	97
9) Propene	2.681	41	49655	0.896	ppbv #	80
10) Heptane	7.561	43	24035m	0.191	ppbv	
13) Ethanol	3.211	45	738172	159.623	ppbv	95
15) Acetone	3.439	43	3934772	25.889	ppbv	95
17) tert-Butyl alcohol	3.867	59	66777	0.478	ppbv #	90
20) Methylene Chloride	3.909	84	25989	0.428	ppbv	95
26) Hexane	5.188	57	45092	0.418	ppbv #	46
27) Carbon Disulfide	4.102	76	41519	0.298	ppbv #	80
29) Chloroform	5.253	83	90759	0.473	ppbv	98
34) 2-Butanone	4.764	43	367386	2.442	ppbv	98
36) Benzene	6.343	78	62574	0.275	ppbv	98
41) Tetrahydrofuran	5.542	42	135066	1.639	ppbv	97
50) 4-Methyl-2-Pentanone	8.179	43	71043	0.311	ppbv	97
52) Tetrachloroethene	10.597	164	66933m	0.940	ppbv	
53) Toluene	9.201	91	216334	0.897	ppbv	98
58) Ethyl Benzene	12.072	91	58884m	0.187	ppbv	
59) m/p-Xylene	12.330	91	154825m	0.535	ppbv	
60) o-Xylene	13.040	91	55875	0.201	ppbv	98
74) 1,2,4-Trimethylbenzene	16.098	105	55261m	0.171	ppbv	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

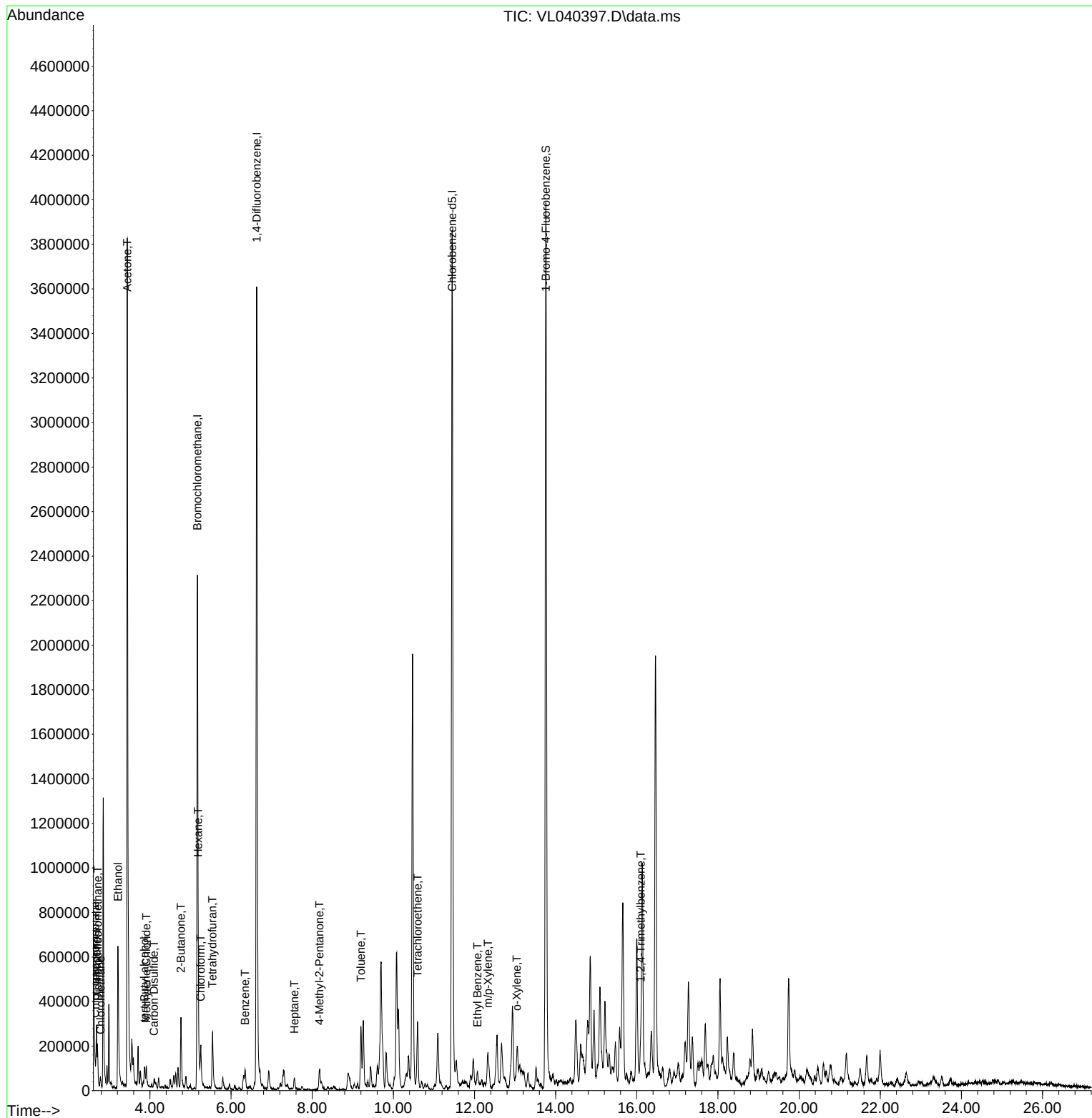
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041923\
Data File : VL040397.D
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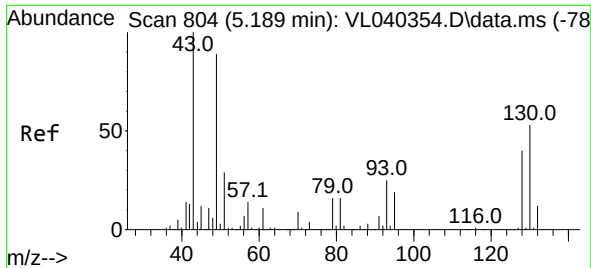
Instrument :
MSVOA_L
ClientSampleId :
VP-1A

Quant Time: Apr 20 10:33:19 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041323AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Thu Apr 13 14:37:02 2023
Response via : Initial Calibration

Manual Integrations
APPROVED

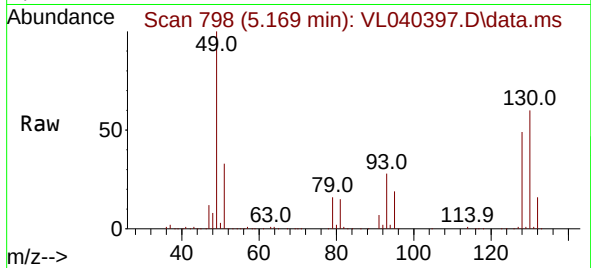
Reviewed By : Semsettin Yesilyurt 04/20/2023
Supervised By : Mahesh Dadoda 04/22/2023





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.169 min Scan# 79
Delta R.T. -0.020 min
Lab File: VL040397.D
Acq: 20 Apr 2023 9:12

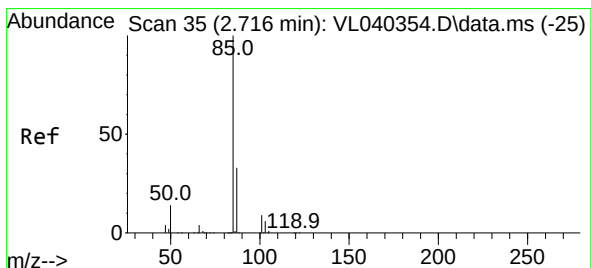
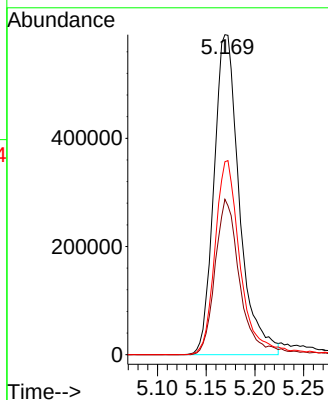
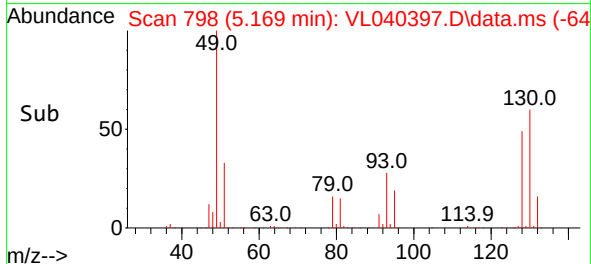
Instrument :
MSVOA_L
ClientSampleId :
VP-1A



Tgt Ion: 49 Resp: 107306
Ion Ratio Lower Upper
49 100
128 48.8 23.7 71.1
130 62.6 29.9 89.8

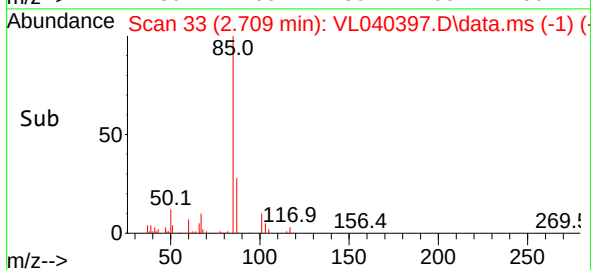
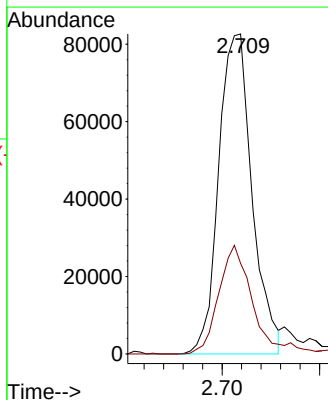
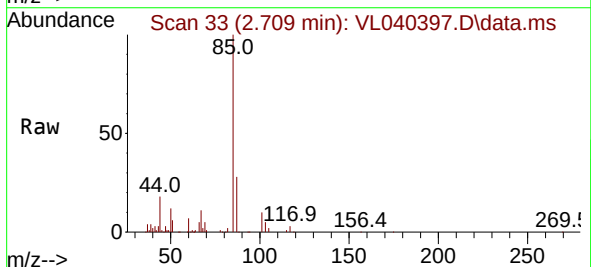
Manual Integrations
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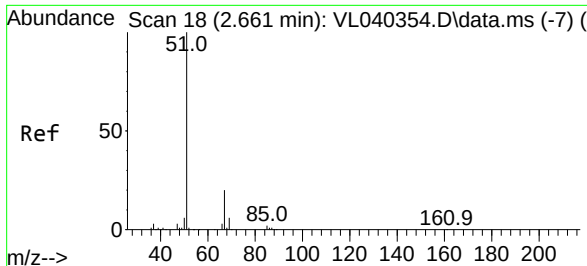
Reviewed By :Semsettin Yesilyurt 04/20/2023
Supervised By :Mahesh Dadoda 04/22/2023



#2
Dichlorodifluoromethane
Concen: 0.508 ppbv
RT: 2.709 min Scan# 33
Delta R.T. -0.007 min
Lab File: VL040397.D
Acq: 20 Apr 2023 9:12

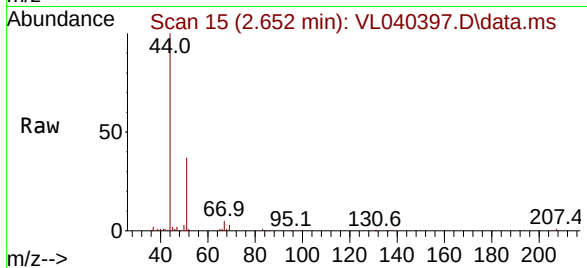
Tgt Ion: 85 Resp: 98306
Ion Ratio Lower Upper
85 100
87 28.3 26.6 40.0





#3
Chlorodifluoromethane
Concen: 0.228 ppbv m
RT: 2.652 min Scan# 11
Delta R.T. -0.009 min
Lab File: VL040397.D
Acq: 20 Apr 2023 9:12

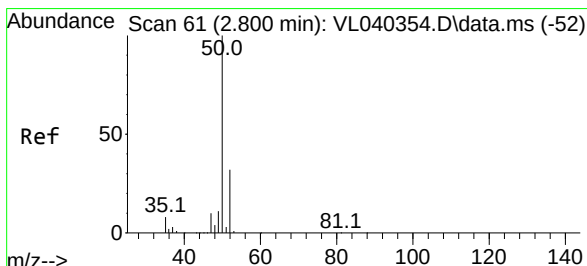
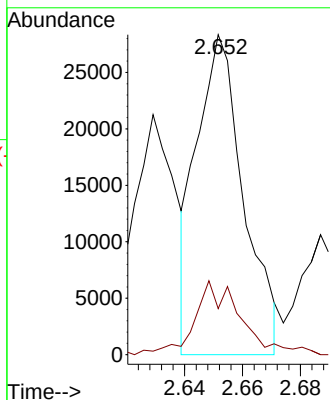
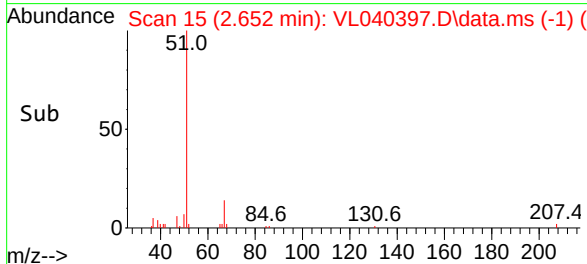
Instrument :
MSVOA_L
ClientSampleId :
VP-1A



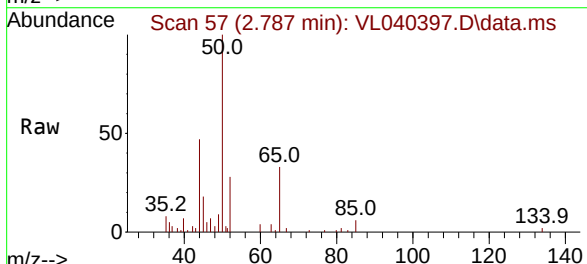
Tgt Ion: 51 Resp: 31909
Ion Ratio Lower Upper
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67 19.2 15.5 23.3

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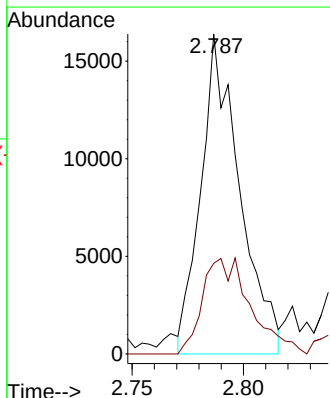
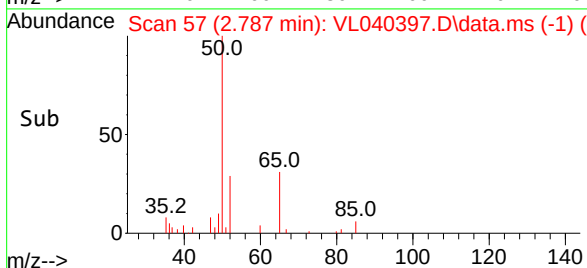
Reviewed By :Semsettin Yesilyurt 04/20/2023
Supervised By :Mahesh Dadoda 04/22/2023

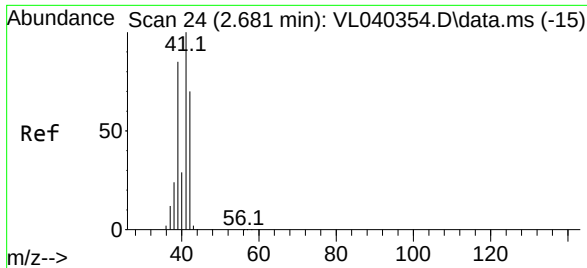


#4
Chloromethane
Concen: 0.224 ppbv
RT: 2.787 min Scan# 57
Delta R.T. -0.013 min
Lab File: VL040397.D
Acq: 20 Apr 2023 9:12



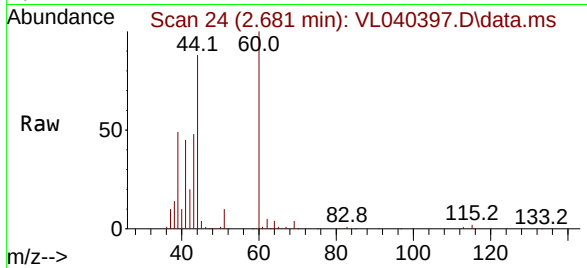
Tgt Ion: 50 Resp: 19844
Ion Ratio Lower Upper
50 100
52 29.9 25.3 37.9





#9
 Propene
 Concen: 0.896 ppbv
 RT: 2.681 min Scan# 24
 Delta R.T. -0.000 min
 Lab File: VL040397.D
 Acq: 20 Apr 2023 9:12

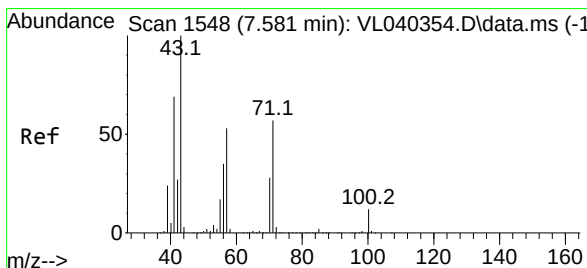
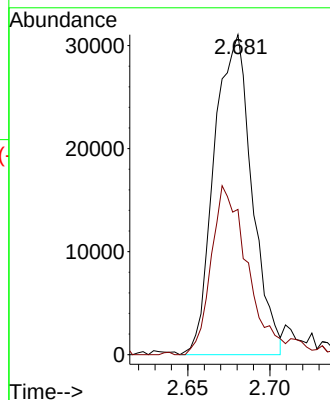
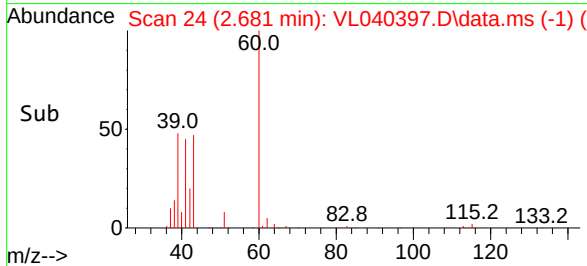
Instrument :
 MSVOA_L
 ClientSampleId :
 VP-1A



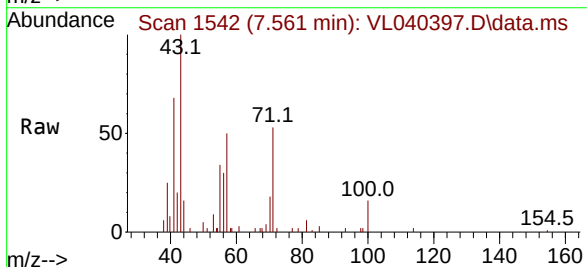
Tgt Ion: 41 Resp: 4965
 Ion Ratio Lower Upper
 41 100
 42 53.9 56.5 84.7

Manual Integrations
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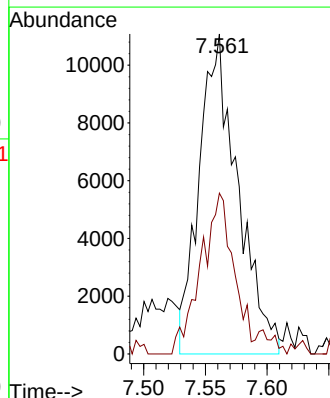
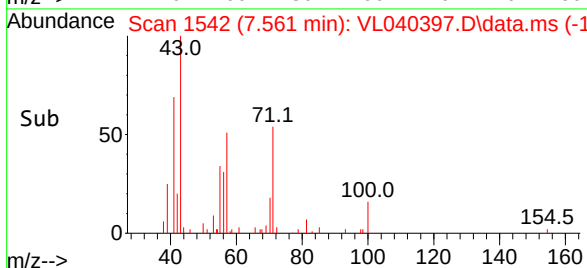
Reviewed By :Semsettin Yesilyurt 04/20/2023
 Supervised By :Mahesh Dadoda 04/22/2023

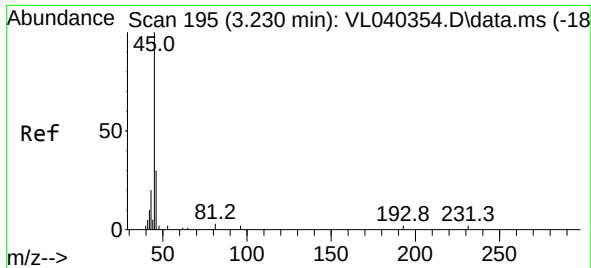


#10
 Heptane
 Concen: 0.191 ppbv m
 RT: 7.561 min Scan# 1542
 Delta R.T. -0.020 min
 Lab File: VL040397.D
 Acq: 20 Apr 2023 9:12



Tgt Ion: 43 Resp: 24035
 Ion Ratio Lower Upper
 43 100
 57 0.0 42.2 63.4





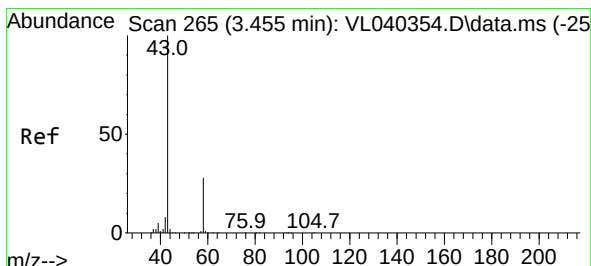
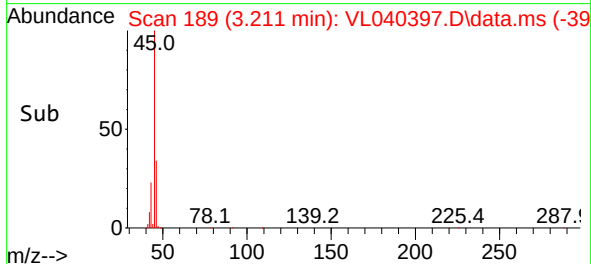
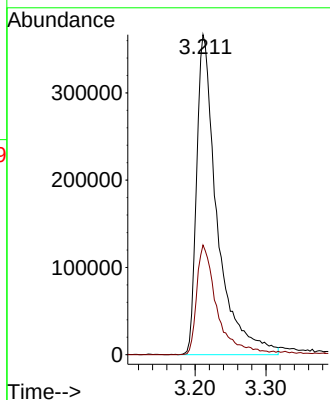
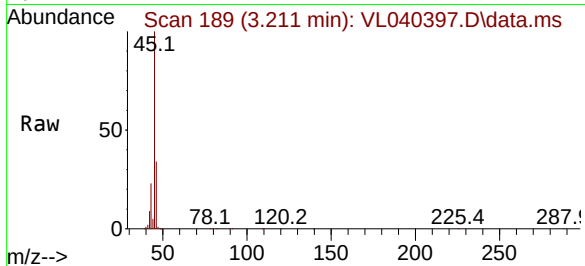
#13
Ethanol
Concen: 159.623 ppbv
RT: 3.211 min Scan# 189
Delta R.T. -0.019 min
Lab File: VL040397.D
Acq: 20 Apr 2023 9:12

Instrument :
MSVOA_L
ClientSampleId :
VP-1A

Tgt Ion: 45 Resp: 738172
Ion Ratio Lower Upper
45 100
46 35.1 15.3 61.3

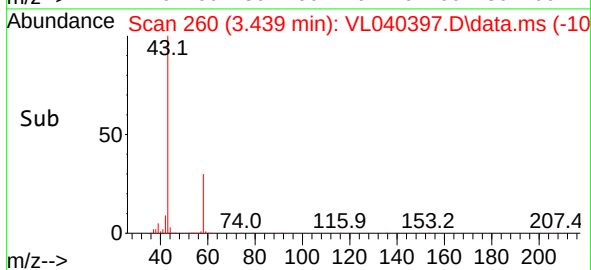
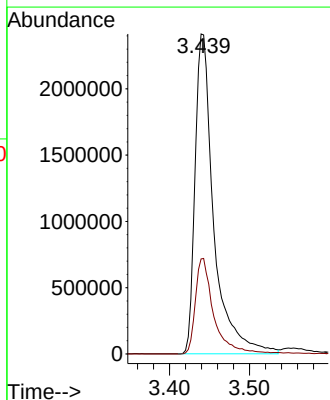
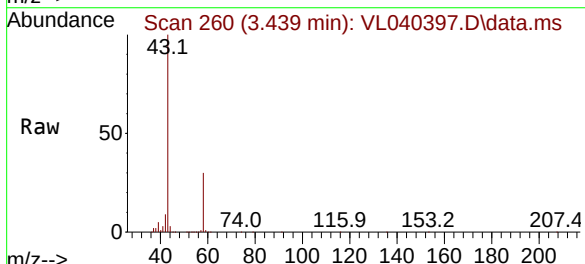
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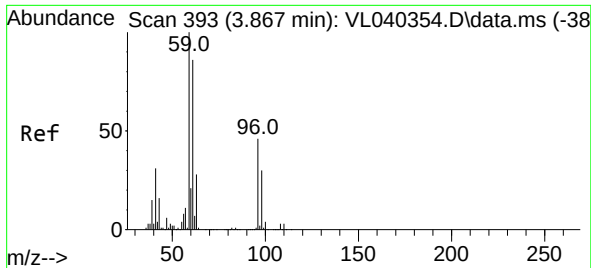
Reviewed By :Semsettin Yesilyurt 04/20/2023
Supervised By :Mahesh Dadoda 04/22/2023



#15
Acetone
Concen: 25.889 ppbv
RT: 3.439 min Scan# 260
Delta R.T. -0.016 min
Lab File: VL040397.D
Acq: 20 Apr 2023 9:12

Tgt Ion: 43 Resp: 3934772
Ion Ratio Lower Upper
43 100
58 30.2 22.2 33.2





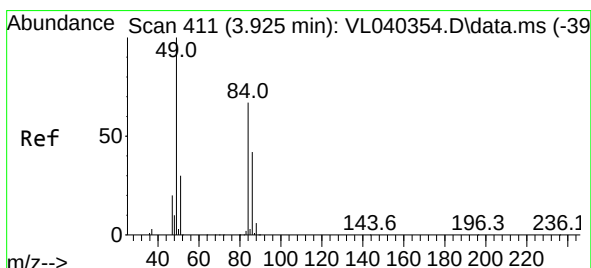
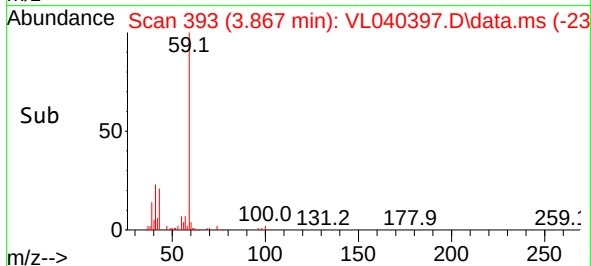
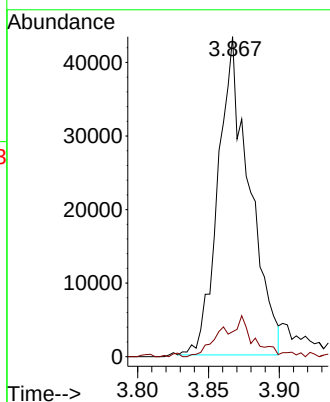
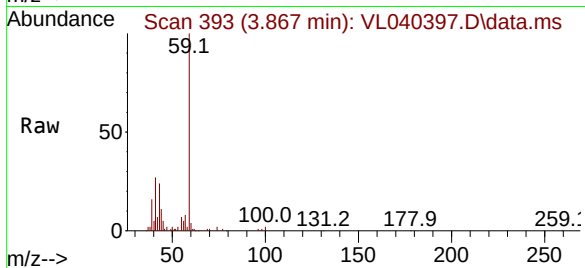
#17
tert-Butyl alcohol
Concen: 0.478 ppbv
RT: 3.867 min Scan# 393
Delta R.T. -0.000 min
Lab File: VL040397.D
Acq: 20 Apr 2023 9:12

Instrument :
MSVOA_L
ClientSampleId :
VP-1A

Tgt Ion: 59 Resp: 6677
Ion Ratio Lower Upper
59 100
57 14.2 8.5 12.7

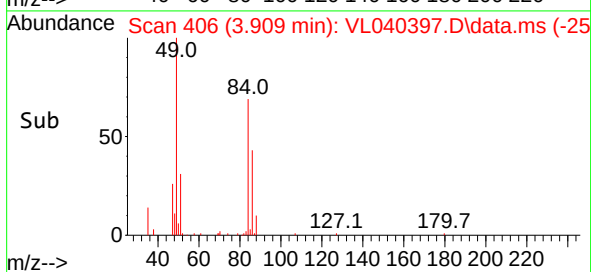
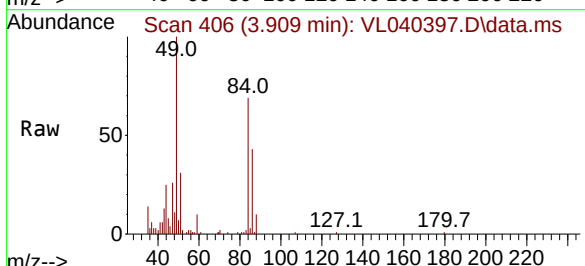
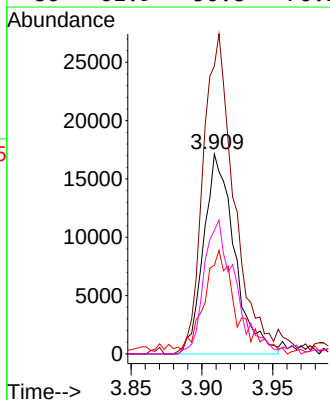
Manual Integrations
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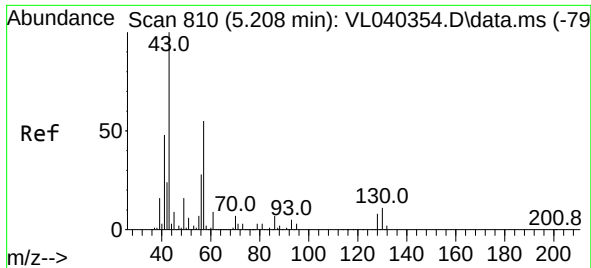
Reviewed By :Semsettin Yesilyurt 04/20/2023
Supervised By :Mahesh Dadoda 04/22/2023



#20
Methylene Chloride
Concen: 0.428 ppbv
RT: 3.909 min Scan# 406
Delta R.T. -0.016 min
Lab File: VL040397.D
Acq: 20 Apr 2023 9:12

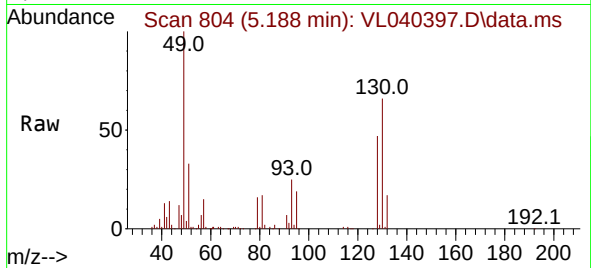
Tgt Ion: 84 Resp: 25989
Ion Ratio Lower Upper
84 100
49 142.8 120.1 180.1
51 42.0 36.3 54.5
86 61.9 50.8 76.2





#26
Hexane
Concen: 0.418 ppbv
RT: 5.188 min Scan# 804
Delta R.T. -0.020 min
Lab File: VL040397.D
Acq: 20 Apr 2023 9:12

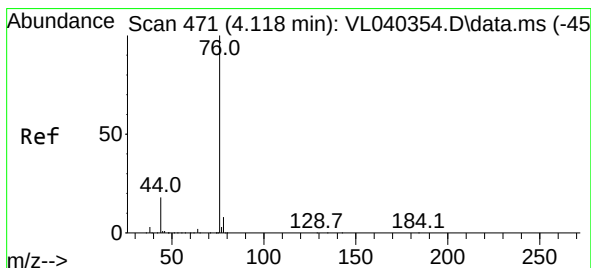
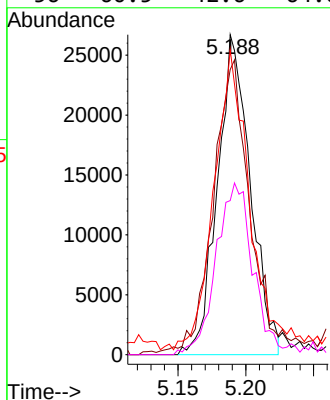
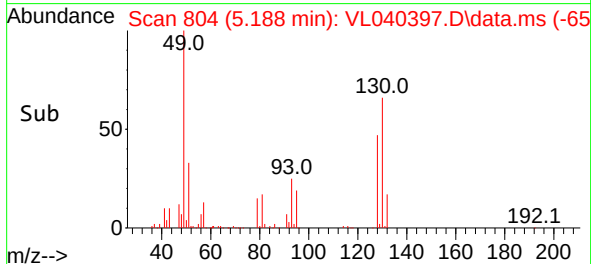
Instrument :
MSVOA_L
ClientSampleId :
VP-1A



Tgt Ion: 57 Resp: 45092
Ion Ratio Lower Upper
57 100
41 101.1 74.8 112.2
43 101.5 192.7 289.1
56 60.5 42.6 64.0

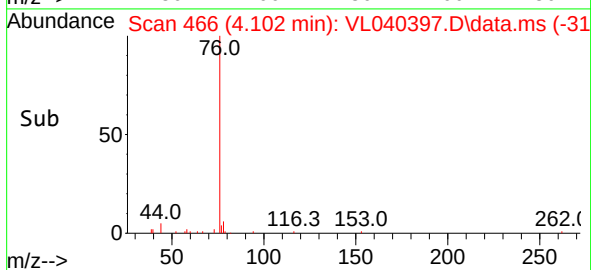
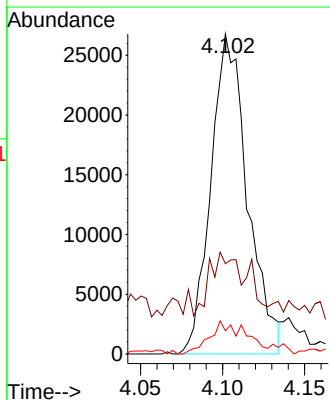
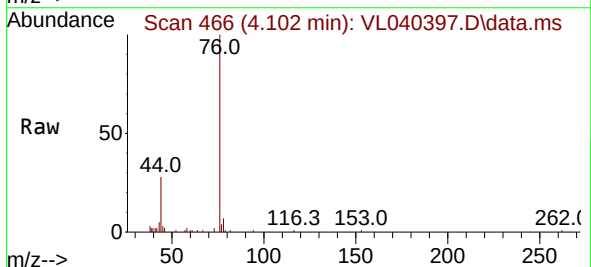
Manual Integrations
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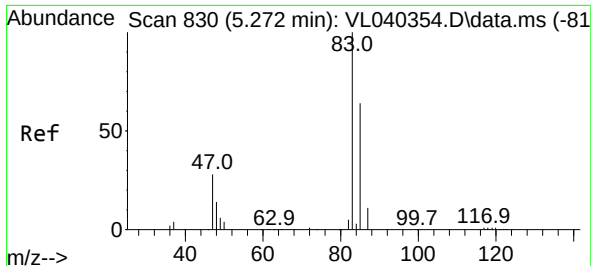
Reviewed By :Semsettin Yesilyurt 04/20/2023
Supervised By :Mahesh Dadoda 04/22/2023



#27
Carbon Disulfide
Concen: 0.298 ppbv
RT: 4.102 min Scan# 466
Delta R.T. -0.016 min
Lab File: VL040397.D
Acq: 20 Apr 2023 9:12

Tgt Ion: 76 Resp: 41519
Ion Ratio Lower Upper
76 100
44 31.1 14.7 22.1
78 11.3 7.7 11.5





#29

Chloroform

Concen: 0.473 ppbv

RT: 5.253 min Scan# 81

Delta R.T. -0.019 min

Lab File: VL040397.D

Acq: 20 Apr 2023 9:12

Instrument :

MSVOA_L

ClientSampleId :

VP-1A

Tgt Ion: 83 Resp: 90759

Ion Ratio Lower Upper

83 100

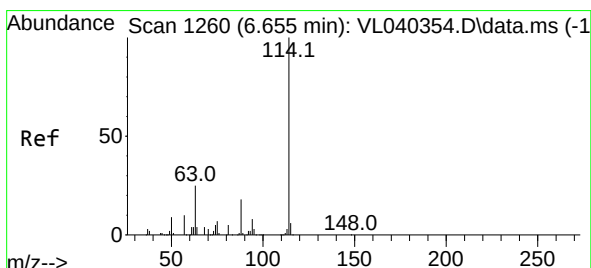
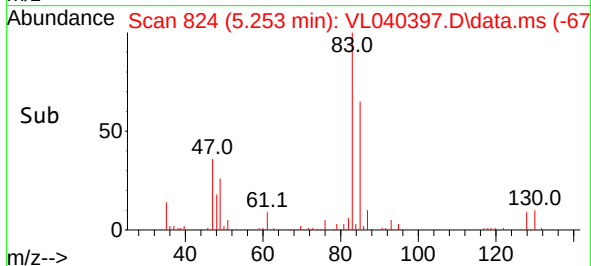
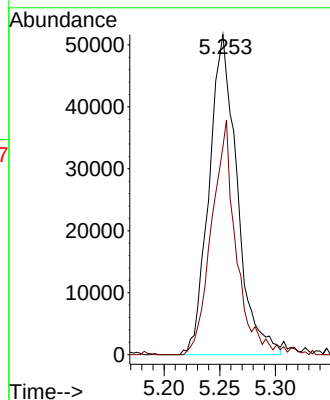
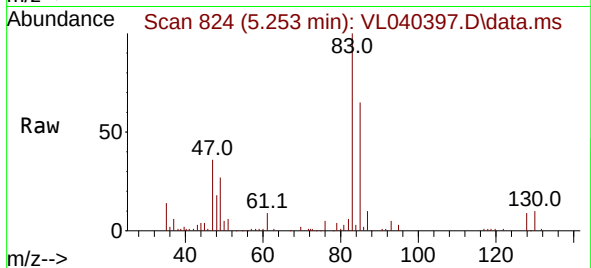
85 64.9 51.0 76.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/20/2023

Supervised By :Mahesh Dadoda 04/22/2023



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.632 min Scan# 1253

Delta R.T. -0.023 min

Lab File: VL040397.D

Acq: 20 Apr 2023 9:12

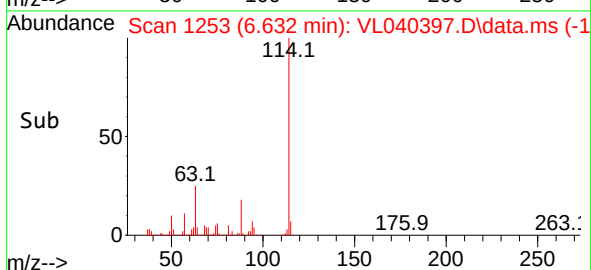
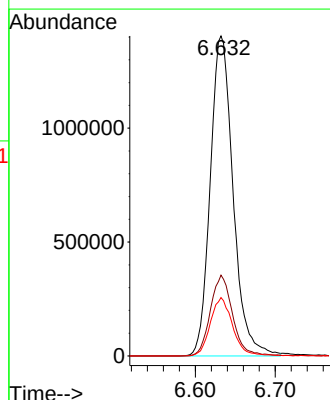
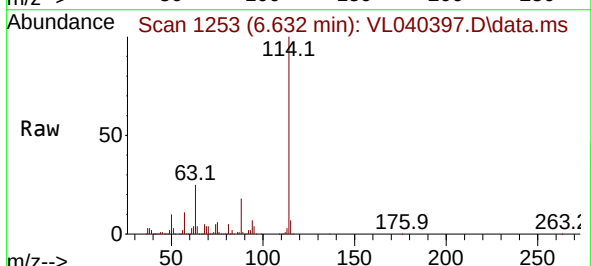
Tgt Ion:114 Resp: 2789676

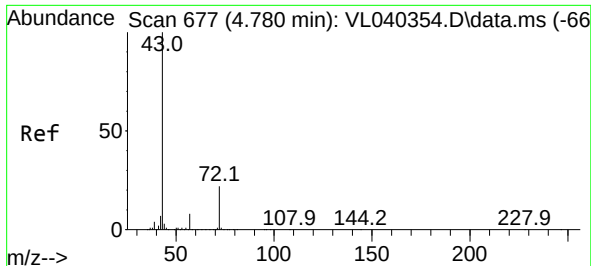
Ion Ratio Lower Upper

114 100

63 24.8 21.4 32.0

88 18.0 14.6 22.0





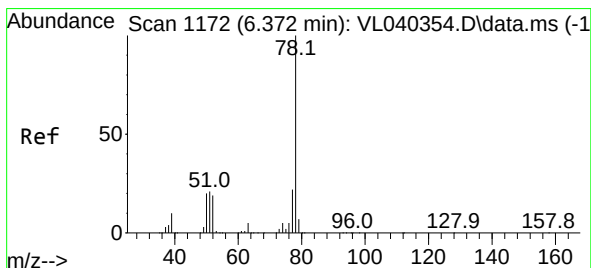
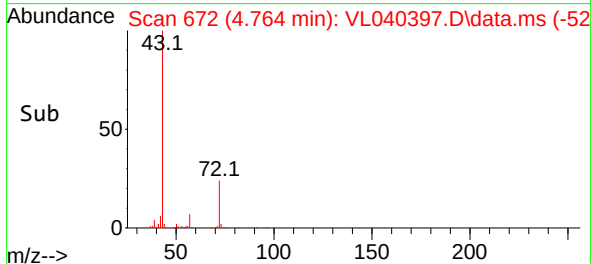
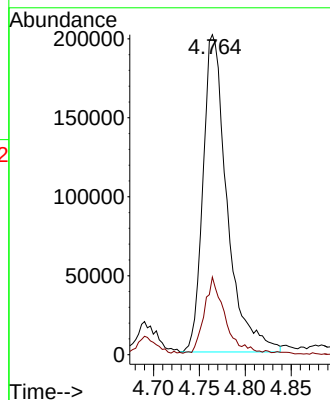
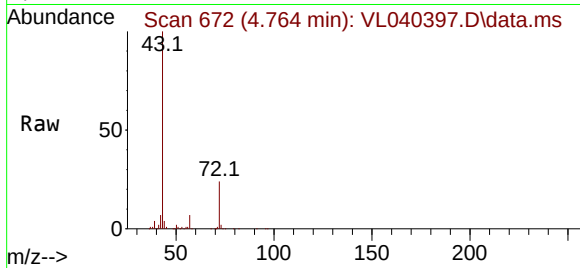
#34
2-Butanone
Concen: 2.442 ppbv
RT: 4.764 min Scan# 61
Delta R.T. -0.016 min
Lab File: VL040397.D
Acq: 20 Apr 2023 9:12

Instrument :
MSVOA_L
ClientSampleId :
VP-1A

Tgt Ion: 43 Resp: 367380
Ion Ratio Lower Upper
43 100
72 22.2 18.4 27.6

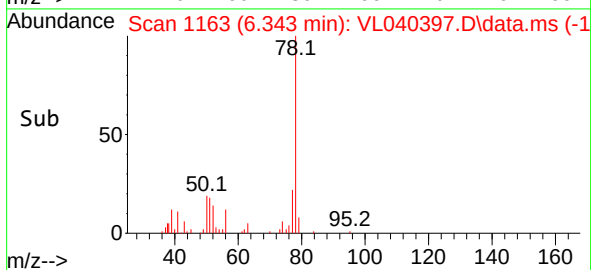
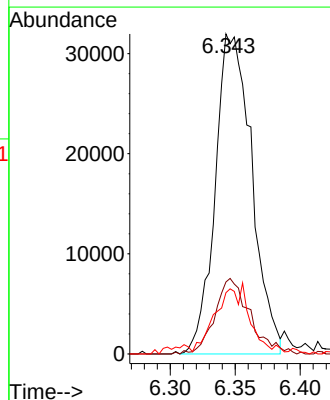
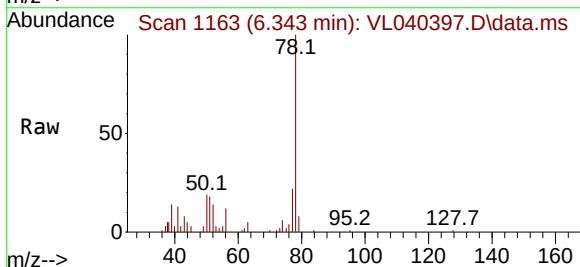
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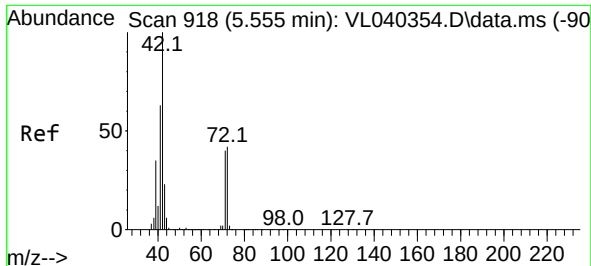
Reviewed By :Semsettin Yesilyurt 04/20/2023
Supervised By :Mahesh Dadoda 04/22/2023



#36
Benzene
Concen: 0.275 ppbv
RT: 6.343 min Scan# 1163
Delta R.T. -0.029 min
Lab File: VL040397.D
Acq: 20 Apr 2023 9:12

Tgt Ion: 78 Resp: 62574
Ion Ratio Lower Upper
78 100
77 22.5 17.8 26.8
50 17.3 15.6 23.4





#41

Tetrahydrofuran

Concen: 1.639 ppbv

RT: 5.542 min Scan# 914

Delta R.T. -0.013 min

Lab File: VL040397.D

Acq: 20 Apr 2023 9:12

Instrument :

MSVOA_L

ClientSampleId :

VP-1A

Tgt Ion: 42 Resp: 13506

Ion Ratio Lower Upper

42 100

72 43.2 33.7 50.5

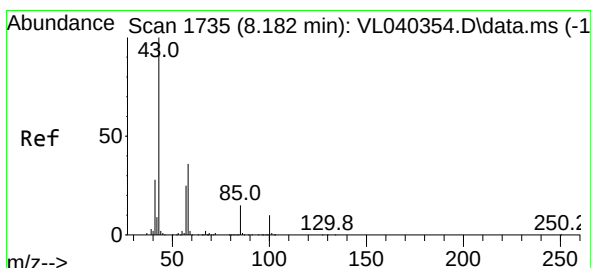
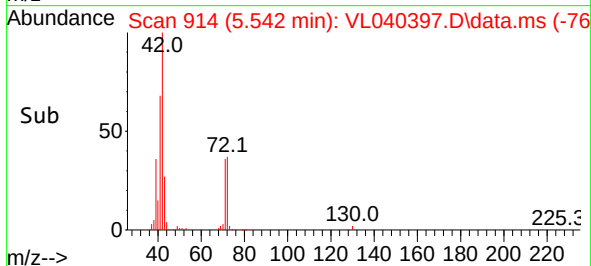
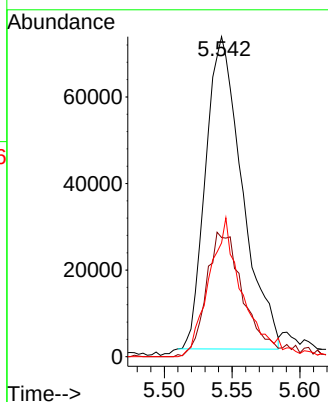
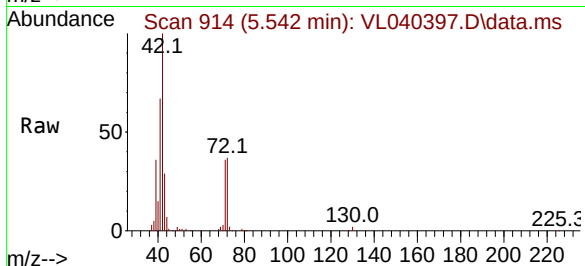
71 42.5 32.2 48.2

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Reviewed By :Semsettin Yesilyurt 04/20/2023

Supervised By :Mahesh Dadoda 04/22/2023



#50

4-Methyl-2-Pentanone

Concen: 0.311 ppbv

RT: 8.179 min Scan# 1734

Delta R.T. -0.003 min

Lab File: VL040397.D

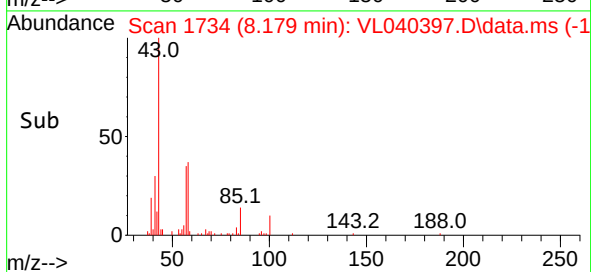
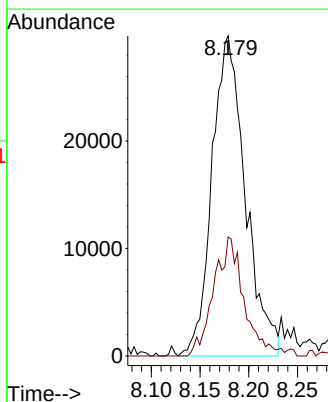
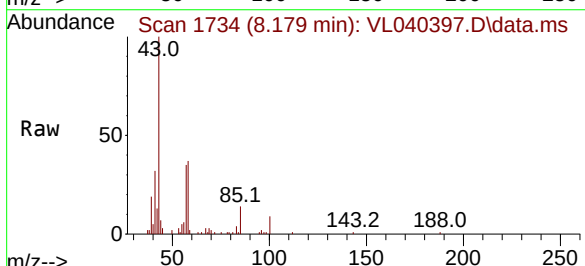
Acq: 20 Apr 2023 9:12

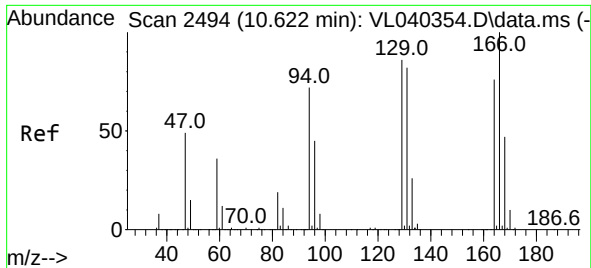
Tgt Ion: 43 Resp: 71043

Ion Ratio Lower Upper

43 100

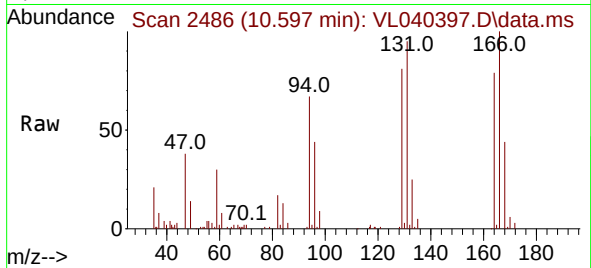
58 33.9 28.6 43.0





#52
Tetrachloroethene
Concen: 0.940 ppbv m
RT: 10.597 min Scan# 2494
Delta R.T. -0.025 min
Lab File: VL040397.D
Acq: 20 Apr 2023 9:12

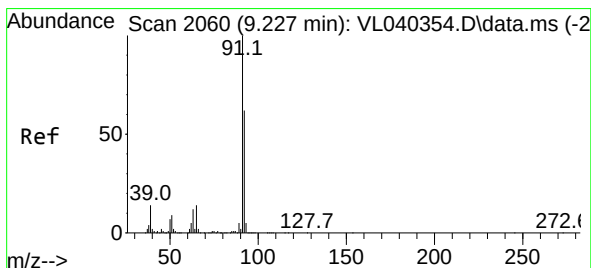
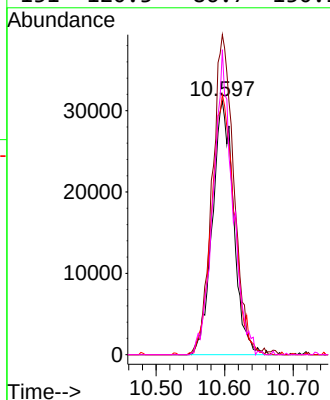
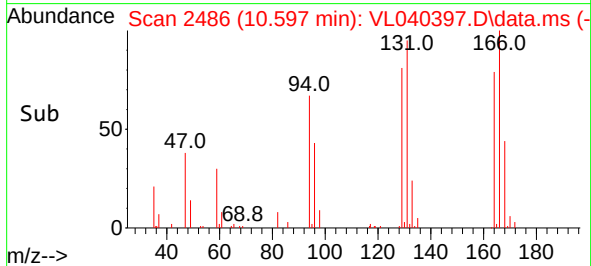
Instrument :
MSVOA_L
ClientSampleId :
VP-1A



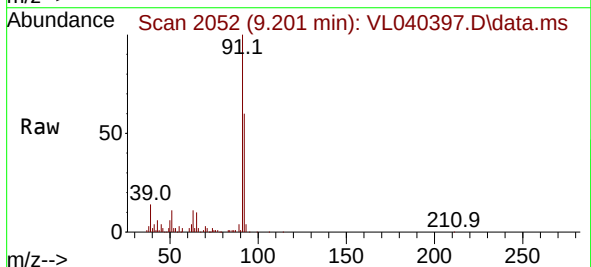
Tgt Ion:164 Resp: 6693
Ion Ratio Lower Upper
164 100
166 126.2 105.2 157.8
129 102.5 90.3 135.5
131 120.3 86.7 130.1

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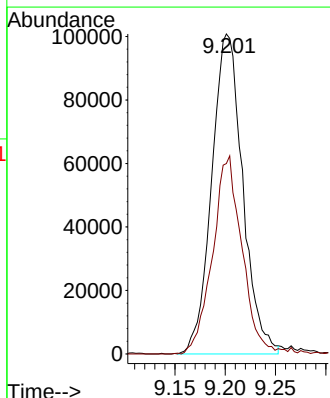
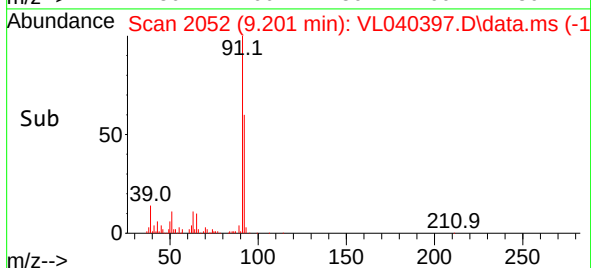
Reviewed By :Semsettin Yesilyurt 04/20/2023
Supervised By :Mahesh Dadoda 04/22/2023

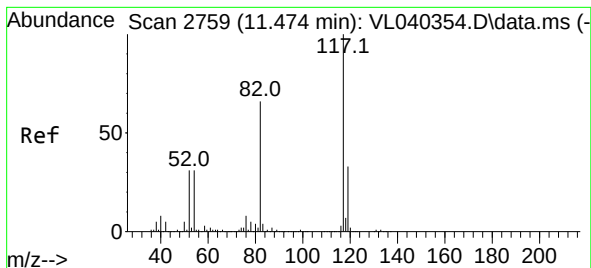


#53
Toluene
Concen: 0.897 ppbv
RT: 9.201 min Scan# 2052
Delta R.T. -0.026 min
Lab File: VL040397.D
Acq: 20 Apr 2023 9:12



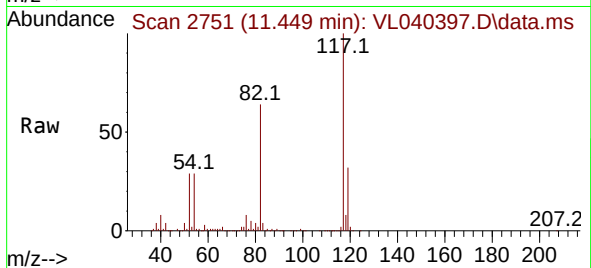
Tgt Ion: 91 Resp: 216334
Ion Ratio Lower Upper
91 100
92 59.4 48.9 73.3





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.449 min Scan# 21
Delta R.T. -0.025 min
Lab File: VL040397.D
Acq: 20 Apr 2023 9:12

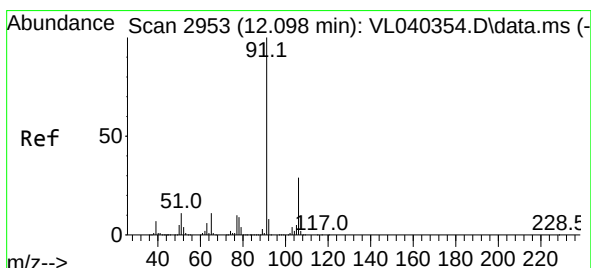
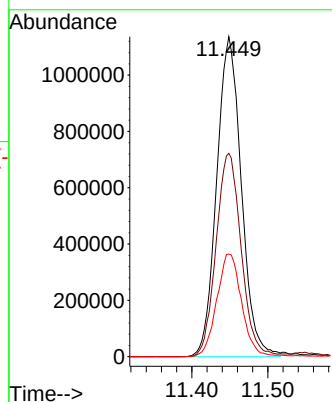
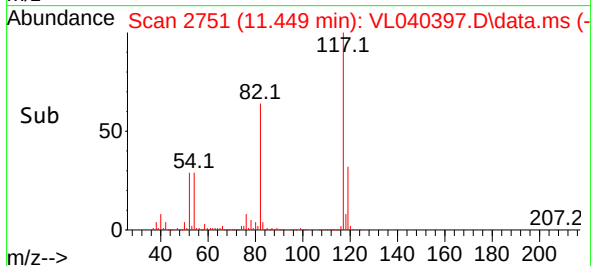
Instrument :
MSVOA_L
ClientSampleId :
VP-1A



Tgt Ion:117 Resp: 2559004
Ion Ratio Lower Upper
117 100
82 64.8 52.5 78.7
119 32.9 24.3 36.5

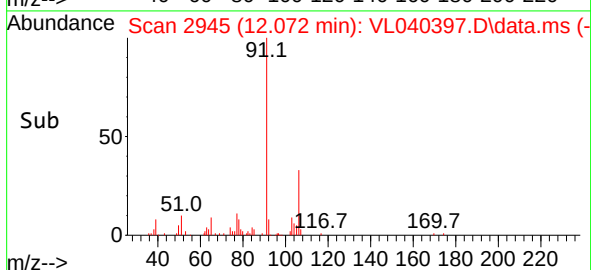
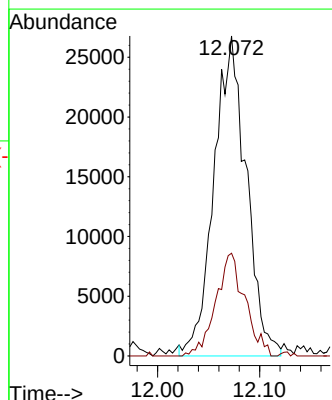
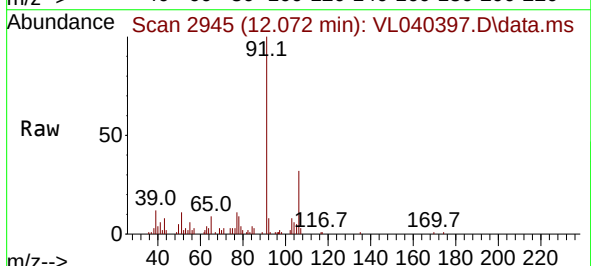
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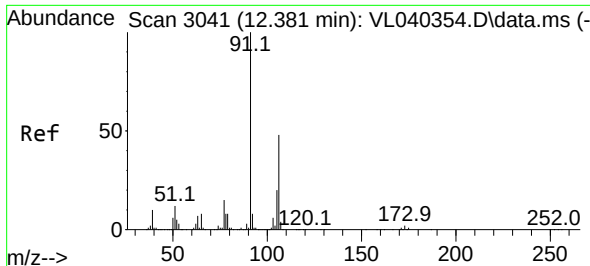
Reviewed By :Semsettin Yesilyurt 04/20/2023
Supervised By :Mahesh Dadoda 04/22/2023



#58
Ethyl Benzene
Concen: 0.187 ppbv m
RT: 12.072 min Scan# 2945
Delta R.T. -0.026 min
Lab File: VL040397.D
Acq: 20 Apr 2023 9:12

Tgt Ion: 91 Resp: 58884
Ion Ratio Lower Upper
91 100
106 32.1 23.5 35.3





#59

m/p-Xylene

Concen: 0.535 ppbv m

RT: 12.330 min Scan# 3041

Delta R.T. -0.051 min

Lab File: VL040397.D

Acq: 20 Apr 2023 9:12

Instrument :

MSVOA_L

ClientSampleId :

VP-1A

Tgt Ion: 91 Resp: 15482

Ion Ratio Lower Upper

91 100

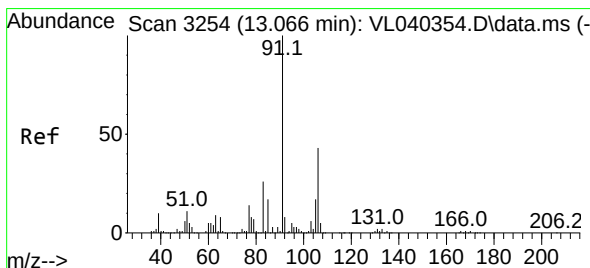
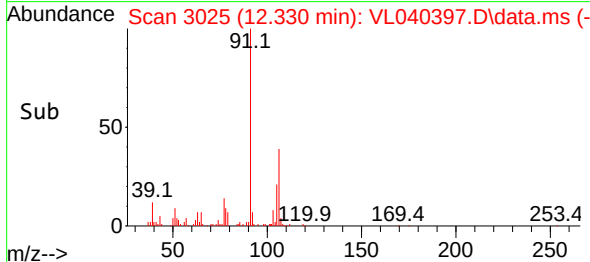
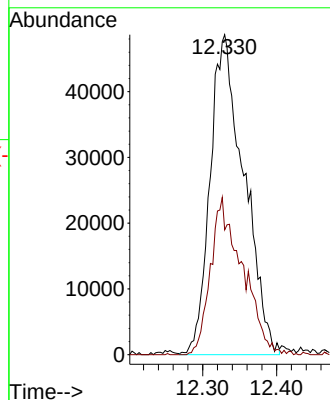
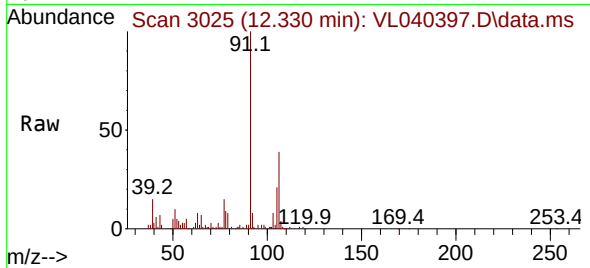
106 46.2 34.7 52.1

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Reviewed By :Semsettin Yesilyurt 04/20/2023

Supervised By :Mahesh Dadoda 04/22/2023



#60

o-Xylene

Concen: 0.201 ppbv

RT: 13.040 min Scan# 3246

Delta R.T. -0.026 min

Lab File: VL040397.D

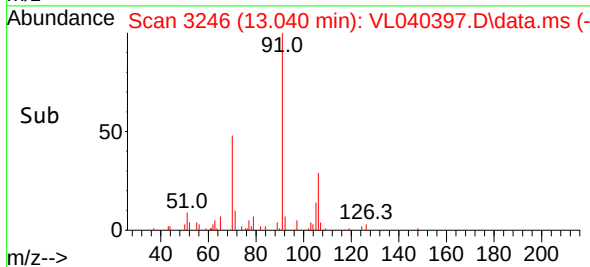
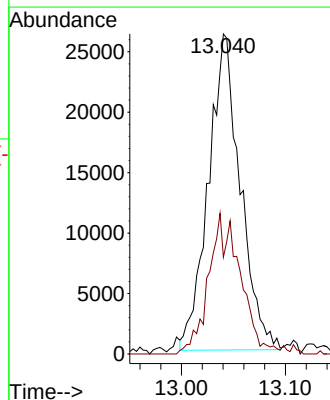
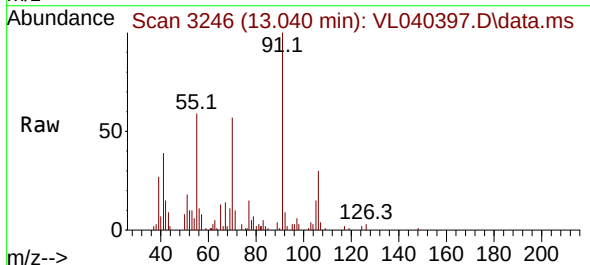
Acq: 20 Apr 2023 9:12

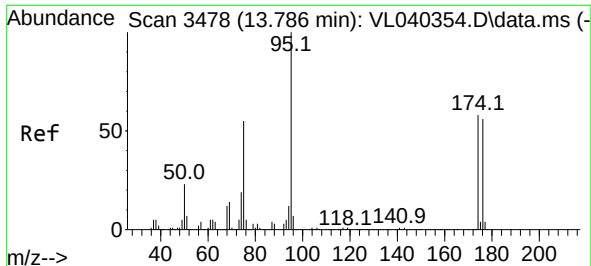
Tgt Ion: 91 Resp: 55875

Ion Ratio Lower Upper

91 100

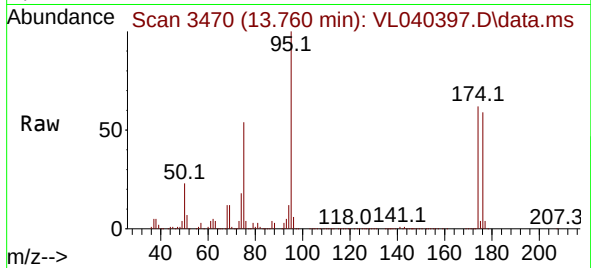
106 44.9 21.9 65.8





#68
1-Bromo-4-Fluorobenzene
Concen: 9.739 ppbv
RT: 13.760 min Scan# 3478
Delta R.T. -0.026 min
Lab File: VL040397.D
Acq: 20 Apr 2023 9:12

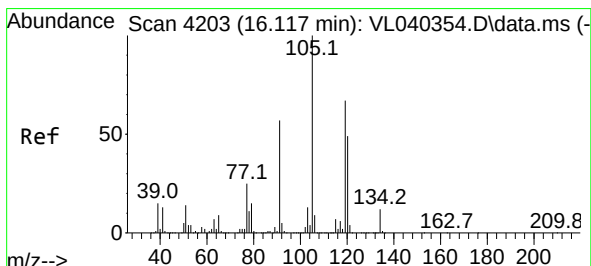
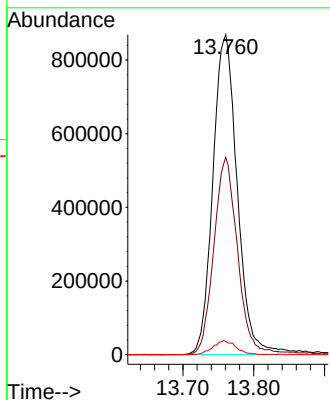
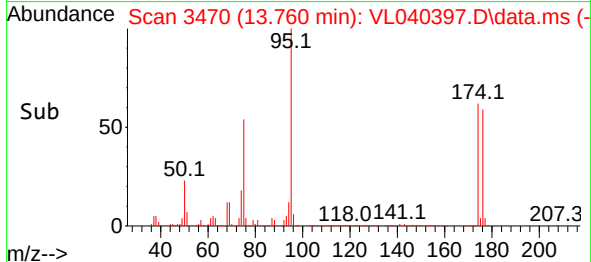
Instrument :
MSVOA_L
ClientSampleId :
VP-1A



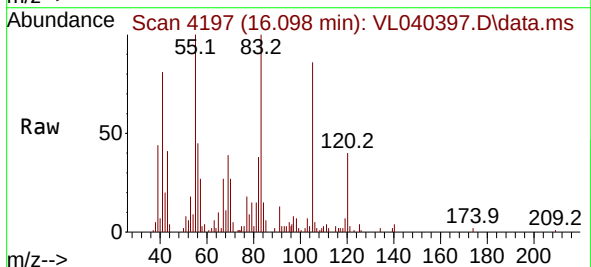
Tgt Ion: 95 Resp: 206095
Ion Ratio Lower Upper
95 100
174 61.0 47.2 70.8
175 4.2 3.5 5.3

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Reviewed By :Semsettin Yesilyurt 04/20/2023
Supervised By :Mahesh Dadoda 04/22/2023



#74
1,2,4-Trimethylbenzene
Concen: 0.171 ppbv m
RT: 16.098 min Scan# 4197
Delta R.T. -0.019 min
Lab File: VL040397.D
Acq: 20 Apr 2023 9:12



Tgt Ion:105 Resp: 55261
Ion Ratio Lower Upper
105 100
120 46.1 38.9 58.3
91 15.4 46.0 69.0#
77 21.3 20.0 30.0

