

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL110221\
 Data File : VL037972.D
 Acq On : 2 Nov 2021 17:50
 Operator : SY/AP
 Sample : M4425-02
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 11/05/2021
 Supervised By : Mahesh Dadoda 11/09/2021

Quant Time: Nov 03 03:50:27 2021

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL110121AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Nov 03 03:50:27 2021

QLast Update : Tue Nov 02 05:54:07 2021

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.658	49	1309599	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	7.163	114	3767627	10.000	ppbv	0.00
55) Chlorobenzene-d5	12.066	117	3269430	10.000	ppbv	-0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 14.394 95 2400450 10.101 ppbv -0.01
 Spiked Amount 10.000 Range 65 - 135 Recovery = 101.000%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.047	85	55243m	0.299	ppbv	
3) Chlorodifluoromethane	2.983	51	62600m	0.257	ppbv	
4) Chloromethane	3.134	50	51118m	0.552	ppbv	
9) Propene	3.018	41	128521m	1.470	ppbv	
10) Heptane	8.111	43	28837m	0.142	ppbv	
11) Trichlorofluoromethane	3.944	101	41007	0.223	ppbv	97
13) Ethanol	3.597	45	365848	41.488	ppbv	96
15) Acetone	3.841	43	876645	8.101	ppbv	98
19) Isopropyl Alcohol	3.964	45	655250	9.469	ppbv	99
20) Methylene Chloride	4.340	84	441659	7.434	ppbv	98
26) Hexane	5.677	57	245540	1.612	ppbv #	54
29) Chloroform	5.739	83	61320m	0.270	ppbv	
30) Cyclohexane	7.140	84	31900m	0.245	ppbv	
34) 2-Butanone	5.247	43	75649m	0.542	ppbv	
35) Carbon Tetrachloride	7.015	117	12789m	0.056	ppbv	
36) Benzene	6.874	78	39661m	0.129	ppbv	
52) Tetrachloroethene	11.211	164	14578m	0.125	ppbv	
53) Toluene	9.793	91	100490m	0.306	ppbv	
58) Ethyl Benzene	12.696	91	252193	0.631	ppbv	94
59) m/p-Xylene	12.950	91	377077m	1.061	ppbv	
60) o-Xylene	13.680	91	107671m	0.321	ppbv	
74) 1,2,4-Trimethylbenzene	16.745	105	81232	0.216	ppbv #	69

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

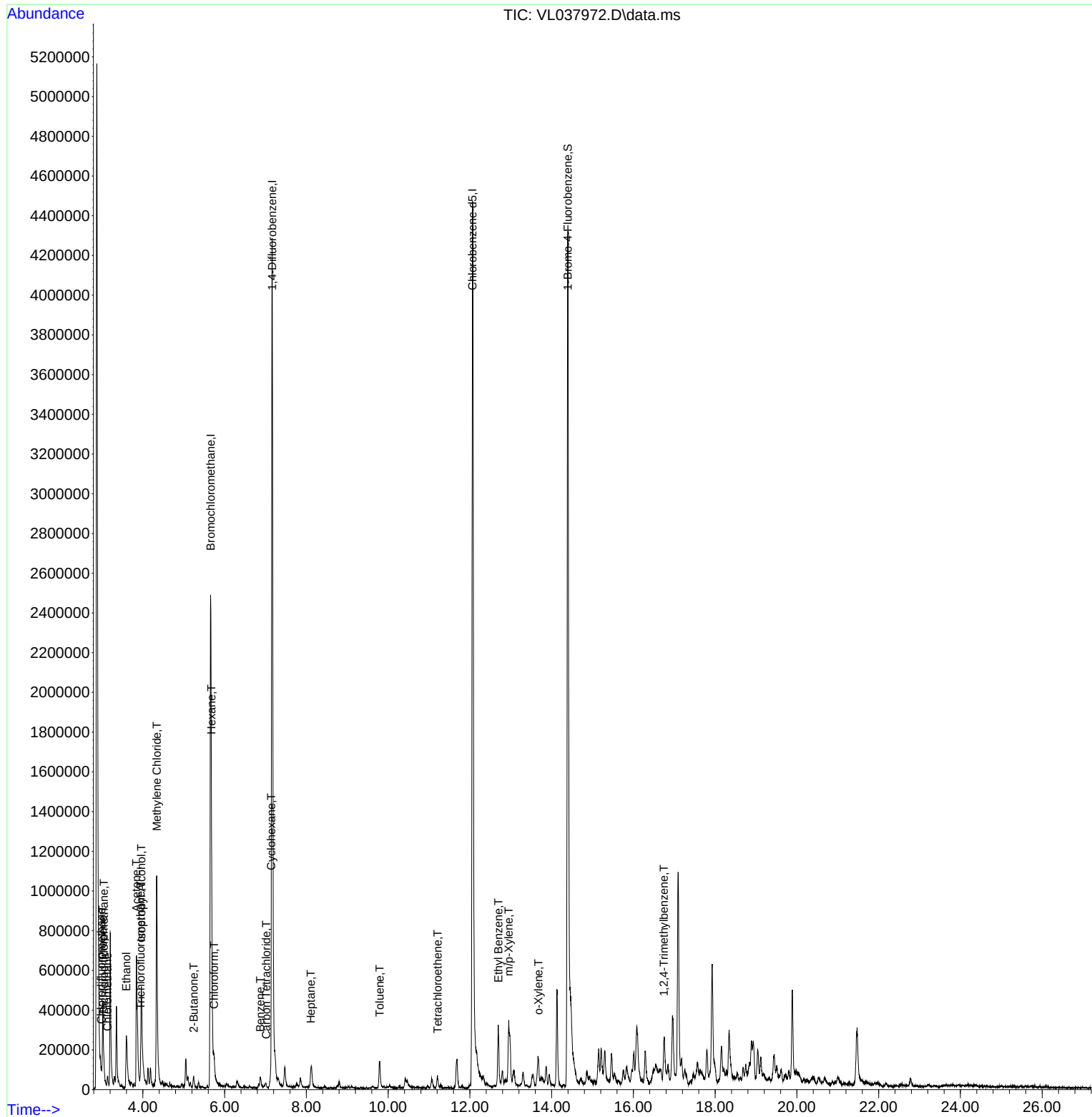
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL110221\
Data File : VL037972.D
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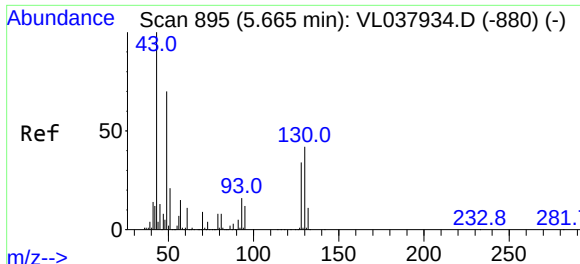
Instrument :
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ClientSampleId :
IA1

Quant Time: Nov 03 03:50:27 2021
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL110121AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Nov
QLast Update : Tue Nov 02 05:54:07 2021
Response via : Initial Calibration

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APPROVED

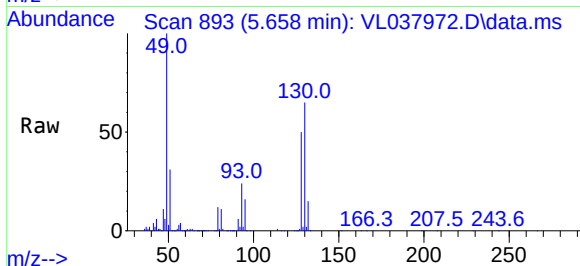
Reviewed By : Semsettin Yesilyurt 11/05/2021
Supervised By : Mahesh Dadoda 11/09/2021





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.658 min Scan# 895
Delta R.T. -0.006 min
Lab File: VL037972.D
Acq: 2 Nov 2021 17:50

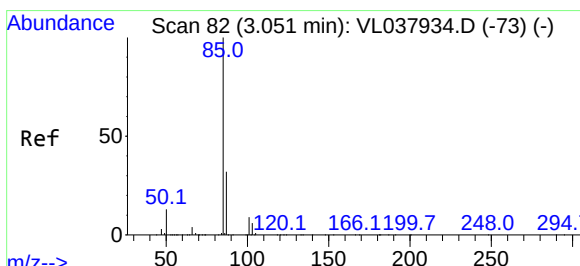
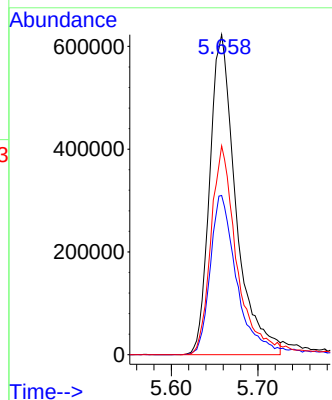
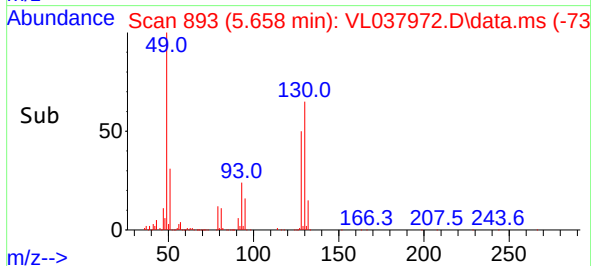
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 49 Resp: 130959
Ion Ratio Lower Upper
49 100
128 52.4 27.0 81.0
130 67.8 33.4 100.2

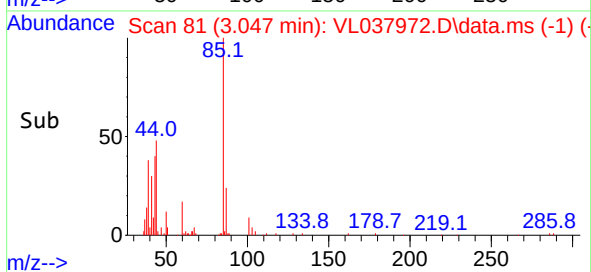
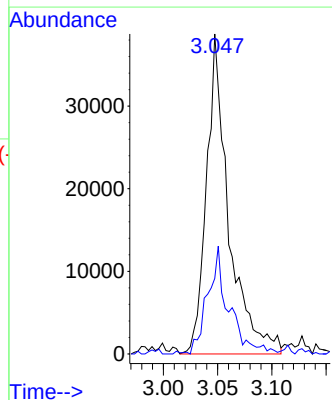
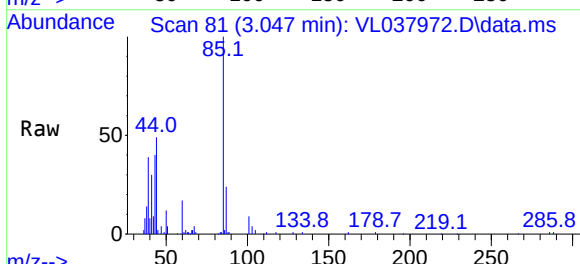
Manual Integrations
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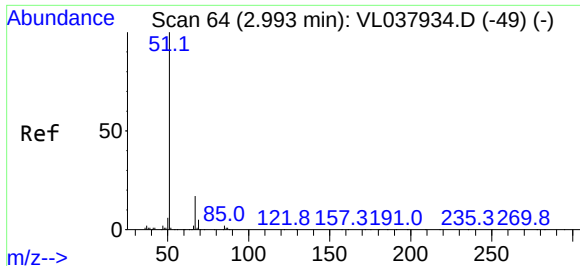
Reviewed By :Semsettin Yesilyurt 11/05/2021
Supervised By :Mahesh Dadoda 11/09/2021



#2
Dichlorodifluoromethane
Concen: 0.299 ppbv m
RT: 3.047 min Scan# 81
Delta R.T. -0.003 min
Lab File: VL037972.D
Acq: 2 Nov 2021 17:50

Tgt Ion: 85 Resp: 55243
Ion Ratio Lower Upper
85 100
87 23.6 25.3 37.9#





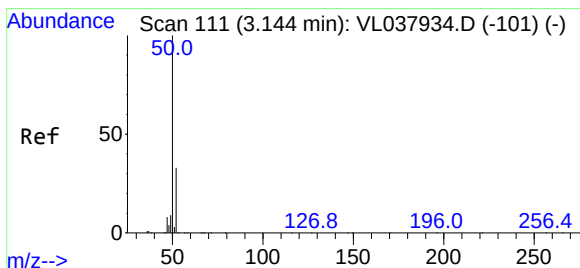
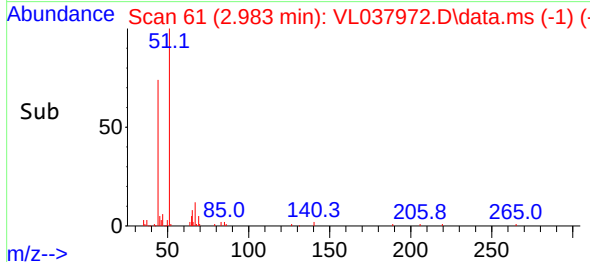
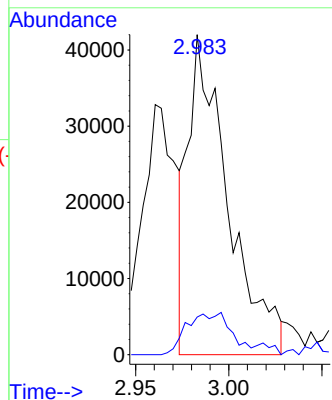
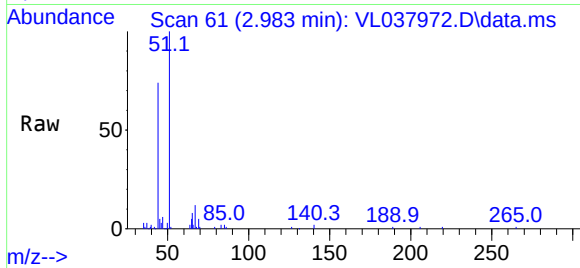
#3
Chlorodifluoromethane
Concen: 0.257 ppbv m
RT: 2.983 min Scan# 61
Delta R.T. -0.010 min
Lab File: VL037972.D
Acq: 2 Nov 2021 17:50

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion: 51 Resp: 62600
Ion Ratio Lower Upper
51 100
67 16.2 13.4 20.0

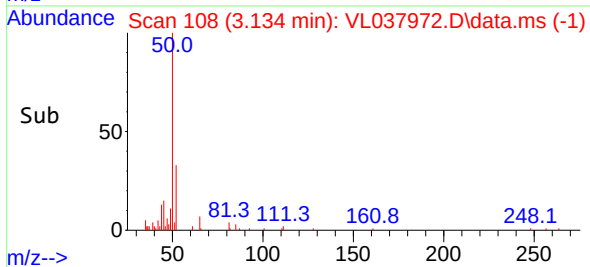
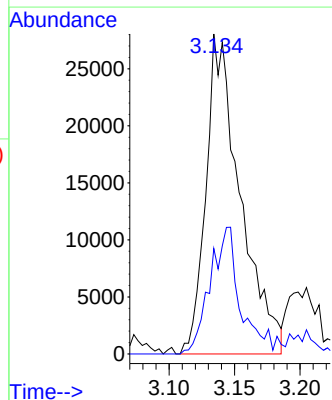
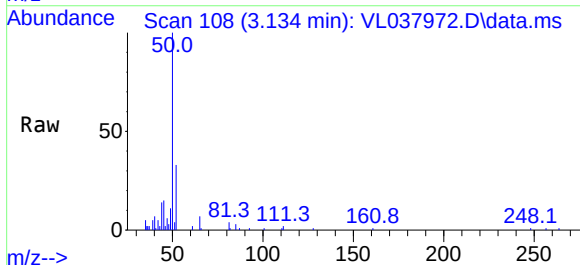
Manual Integrations
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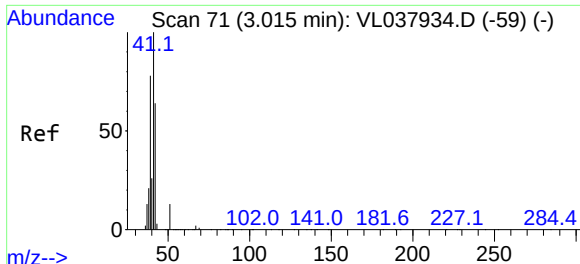
Reviewed By :Semsettin Yesilyurt 11/05/2021
Supervised By :Mahesh Dadoda 11/09/2021



#4
Chloromethane
Concen: 0.552 ppbv m
RT: 3.134 min Scan# 108
Delta R.T. -0.010 min
Lab File: VL037972.D
Acq: 2 Nov 2021 17:50

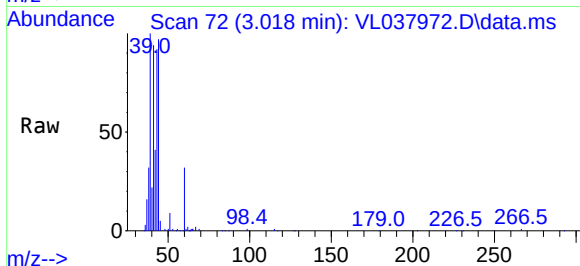
Tgt Ion: 50 Resp: 51118
Ion Ratio Lower Upper
50 100
52 32.9 26.3 39.5





#9
Propene
Concen: 1.470 ppbv m
RT: 3.018 min Scan# 71
Delta R.T. 0.003 min
Lab File: VL037972.D
Acq: 2 Nov 2021 17:50

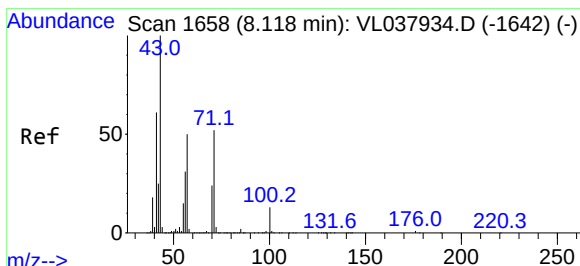
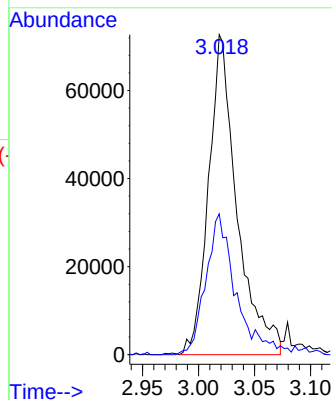
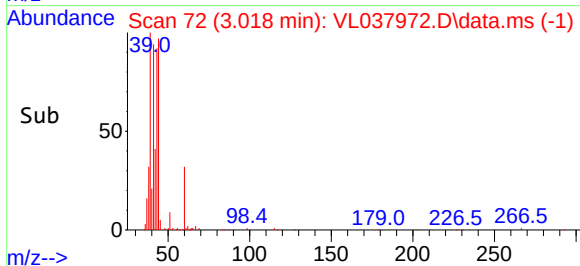
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 41 Resp: 12852
Ion Ratio Lower Upper
41 100
42 140.6 57.6 86.4

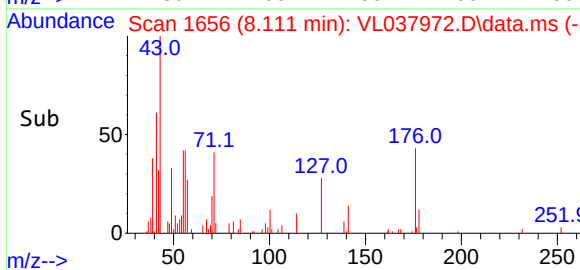
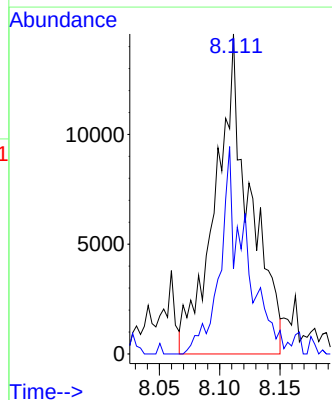
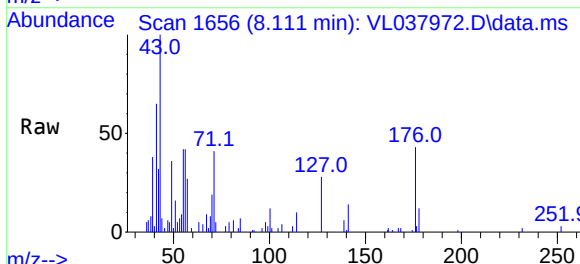
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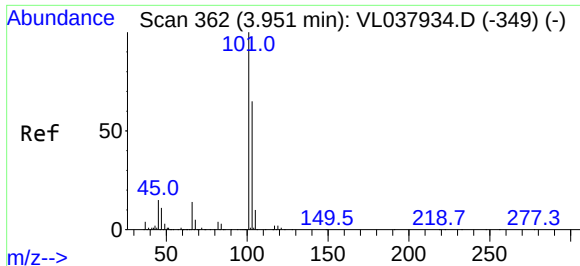
Reviewed By :Semsettin Yesilyurt 11/05/2021
Supervised By :Mahesh Dadoda 11/09/2021



#10
Heptane
Concen: 0.142 ppbv m
RT: 8.111 min Scan# 1656
Delta R.T. -0.006 min
Lab File: VL037972.D
Acq: 2 Nov 2021 17:50

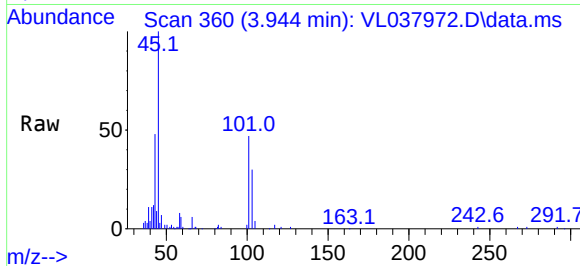
Tgt Ion: 43 Resp: 28837
Ion Ratio Lower Upper
43 100
57 49.9 39.8 59.8





#11
Trichlorofluoromethane
Concen: 0.223 ppbv
RT: 3.944 min Scan# 30
Delta R.T. -0.006 min
Lab File: VL037972.D
Acq: 2 Nov 2021 17:50

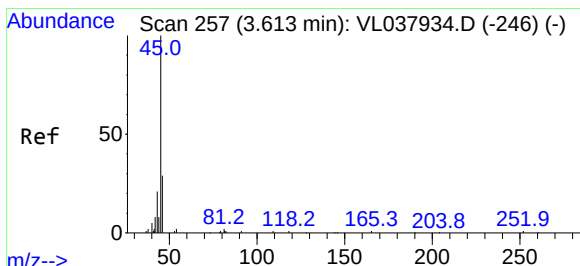
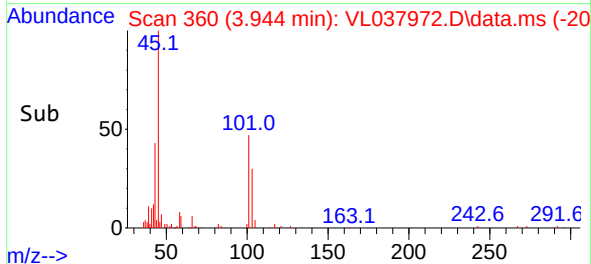
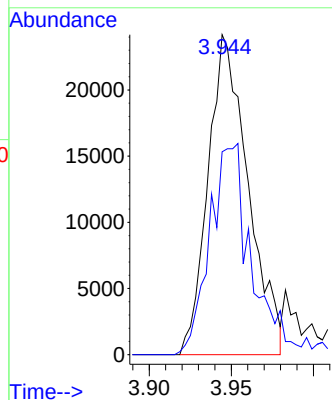
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion:101 Resp: 4100
Ion Ratio Lower Upper
101 100
103 62.5 52.0 78.0

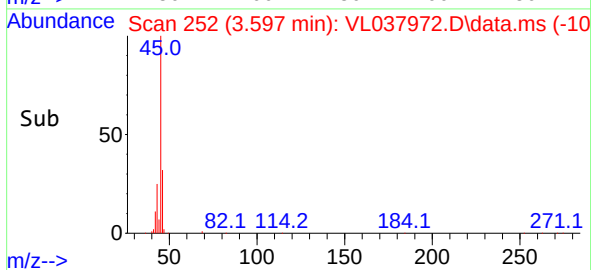
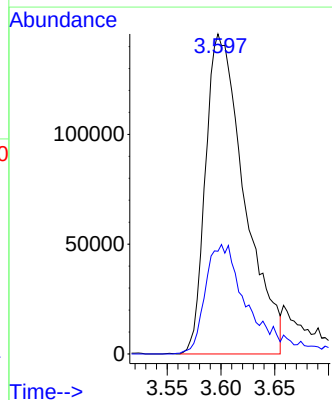
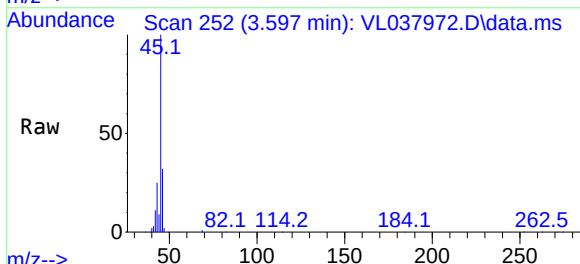
Manual Integrations
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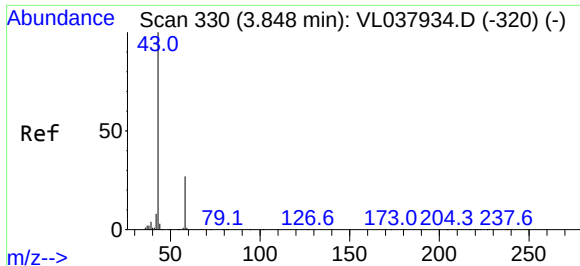
Reviewed By :Semsettin Yesilyurt 11/05/2021
Supervised By :Mahesh Dadoda 11/09/2021



#13
Ethanol
Concen: 41.488 ppbv
RT: 3.597 min Scan# 252
Delta R.T. -0.016 min
Lab File: VL037972.D
Acq: 2 Nov 2021 17:50

Tgt Ion: 45 Resp: 365848
Ion Ratio Lower Upper
45 100
46 40.8 17.4 69.8





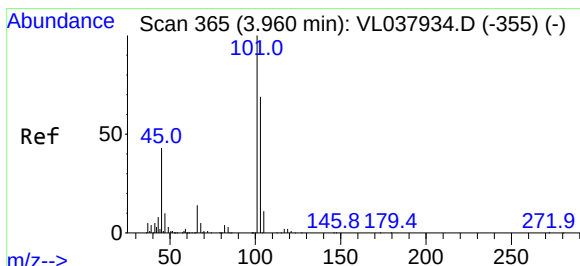
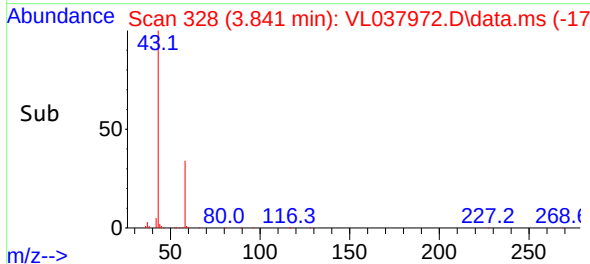
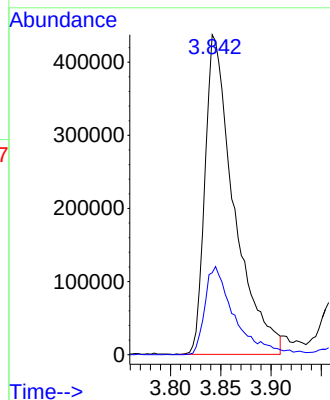
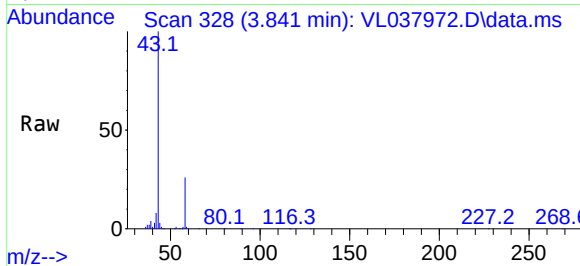
#15
Acetone
Concen: 8.101 ppbv
RT: 3.841 min Scan# 31
Delta R.T. -0.006 min
Lab File: VL037972.D
Acq: 2 Nov 2021 17:50

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion: 43 Resp: 87664
Ion Ratio Lower Upper
43 100
58 27.9 23.3 34.9

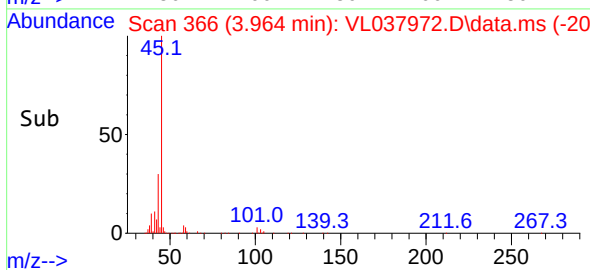
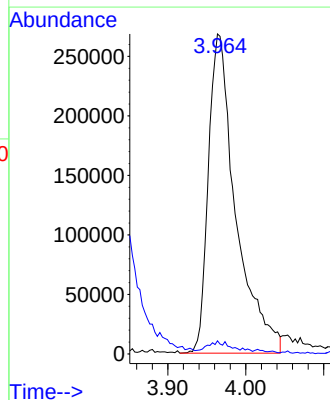
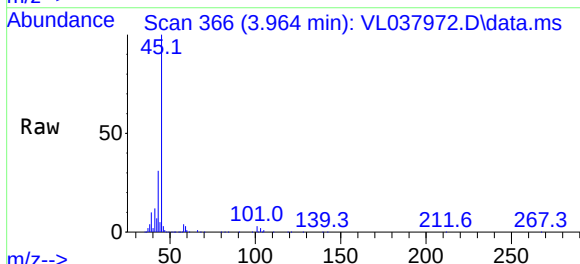
Manual Integrations
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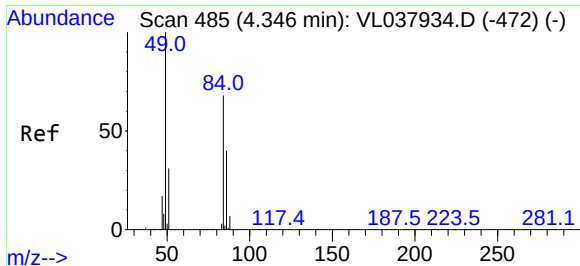
Reviewed By :Semsettin Yesilyurt 11/05/2021
Supervised By :Mahesh Dadoda 11/09/2021



#19
Isopropyl Alcohol
Concen: 9.469 ppbv
RT: 3.964 min Scan# 366
Delta R.T. 0.003 min
Lab File: VL037972.D
Acq: 2 Nov 2021 17:50

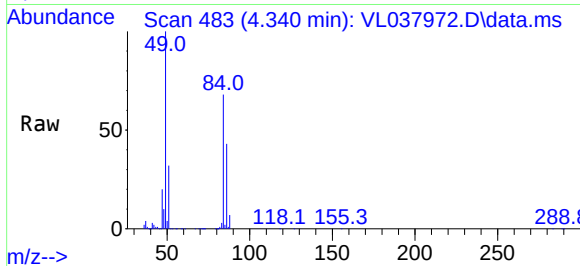
Tgt Ion: 45 Resp: 655250
Ion Ratio Lower Upper
45 100
58 4.6 4.0 6.0





#20
Methylene Chloride
Concen: 7.434 ppbv
RT: 4.340 min Scan# 41
Delta R.T. -0.006 min
Lab File: VL037972.D
Acq: 2 Nov 2021 17:50

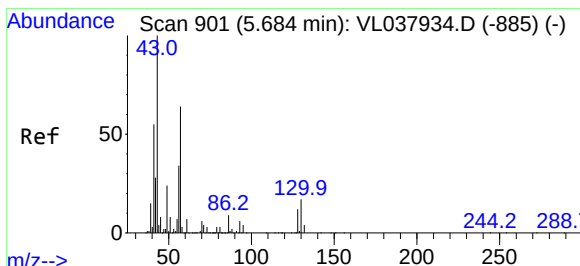
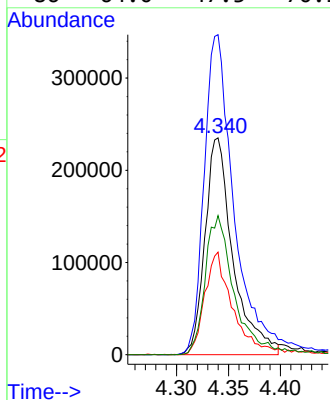
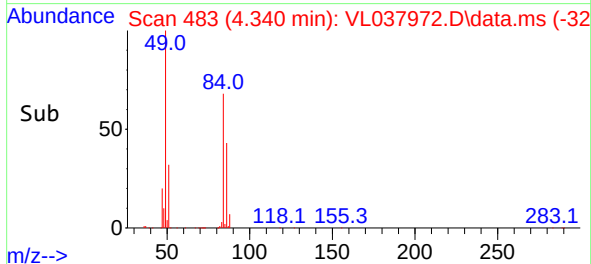
Instrument :
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ClientSampleId :
IA1



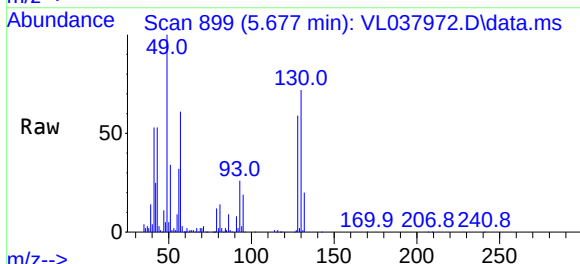
Tgt Ion: 84 Resp: 441659
Ion Ratio Lower Upper
84 100
49 147.4 117.5 176.3
51 47.3 35.9 53.9
86 64.0 47.3 70.9

Manual Integrations
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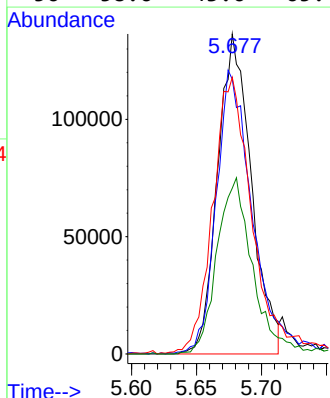
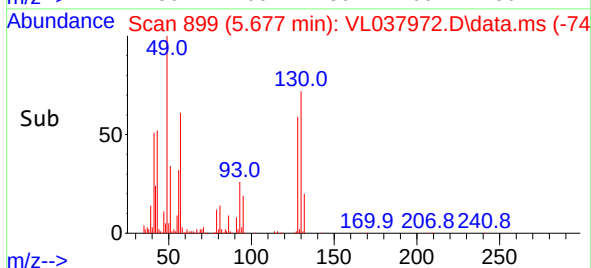
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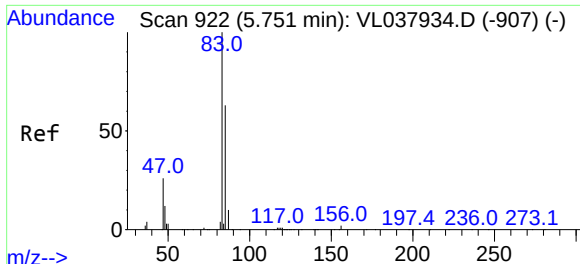


#26
Hexane
Concen: 1.612 ppbv
RT: 5.677 min Scan# 899
Delta R.T. -0.006 min
Lab File: VL037972.D
Acq: 2 Nov 2021 17:50



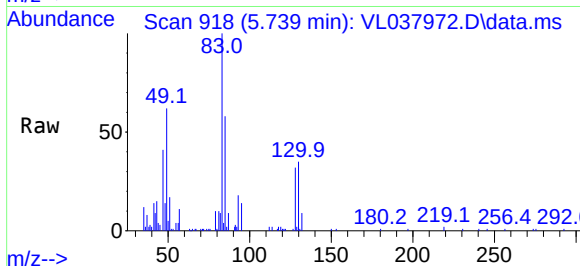
Tgt Ion: 57 Resp: 245540
Ion Ratio Lower Upper
57 100
41 98.0 71.0 106.6
43 102.8 173.0 259.6#
56 58.6 43.6 65.4





#29
Chloroform
Concen: 0.270 ppbv m
RT: 5.739 min Scan# 918
Delta R.T. -0.013 min
Lab File: VL037972.D
Acq: 2 Nov 2021 17:50

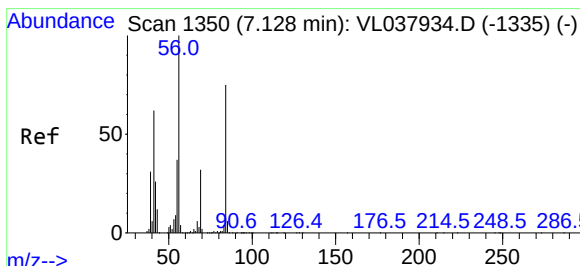
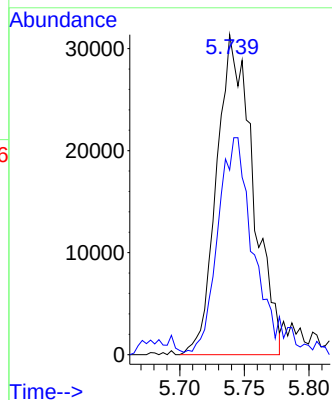
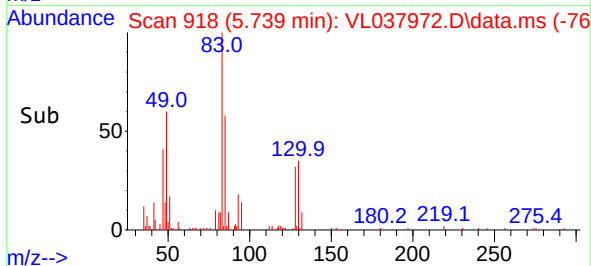
Instrument :
MSVOA_L
ClientSampleId :
IA1



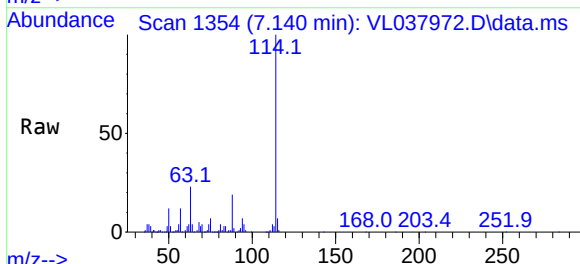
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Ion Ratio Lower Upper
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Manual Integrations
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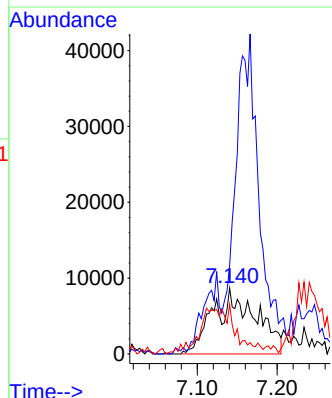
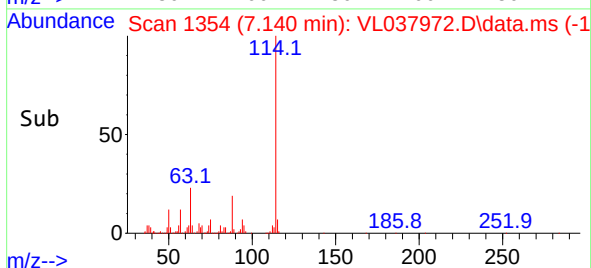
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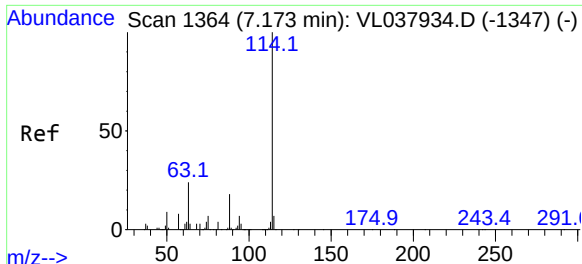


#30
Cyclohexane
Concen: 0.245 ppbv m
RT: 7.140 min Scan# 1354
Delta R.T. 0.013 min
Lab File: VL037972.D
Acq: 2 Nov 2021 17:50



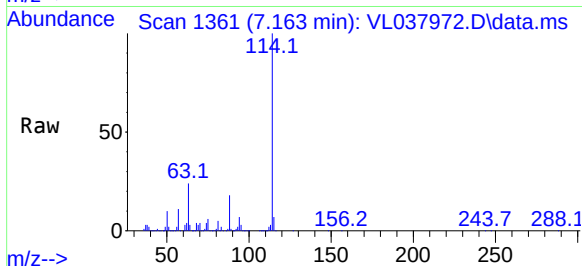
Tgt Ion: 84 Resp: 31900
Ion Ratio Lower Upper
84 100
56 0.0 114.0 171.0#
41 0.0 68.3 102.5#





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.163 min Scan# 114
Delta R.T. -0.010 min
Lab File: VL037972.D
Acq: 2 Nov 2021 17:50

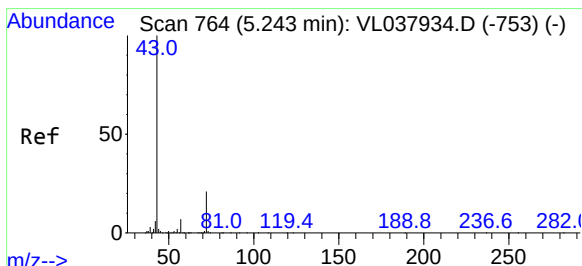
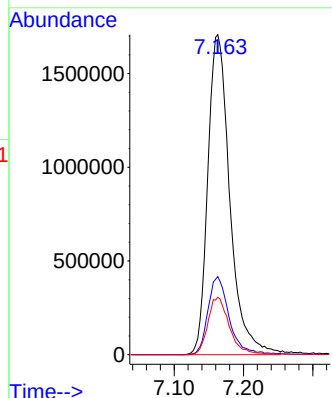
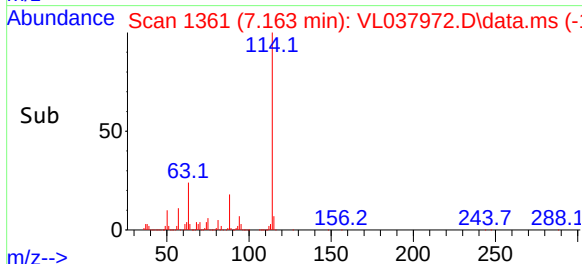
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion:114 Resp: 376762
Ion Ratio Lower Upper
114 100
63 23.8 19.4 29.0
88 17.8 14.2 21.4

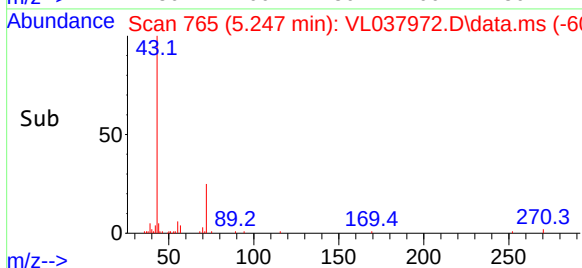
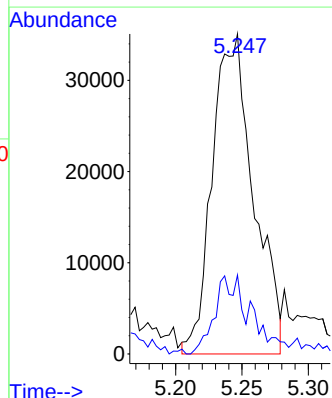
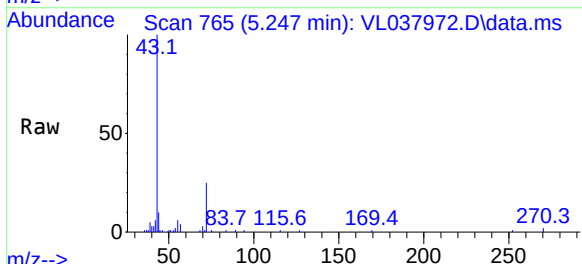
Manual Integrations
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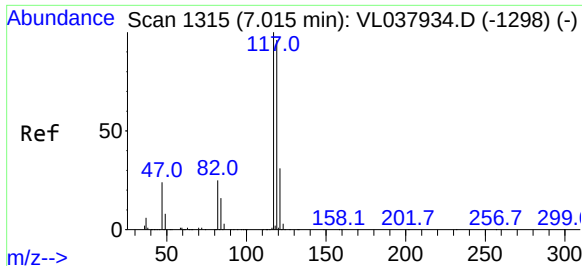
Reviewed By :Semsettin Yesilyurt 11/05/2021
Supervised By :Mahesh Dadoda 11/09/2021



#34
2-Butanone
Concen: 0.542 ppbv m
RT: 5.247 min Scan# 765
Delta R.T. 0.003 min
Lab File: VL037972.D
Acq: 2 Nov 2021 17:50

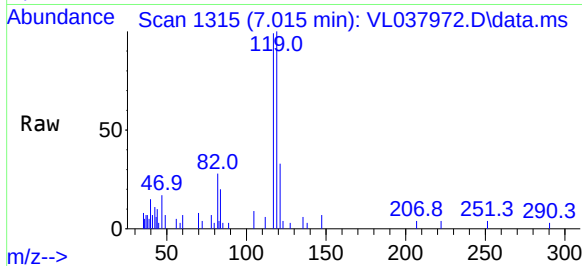
Tgt Ion: 43 Resp: 75649
Ion Ratio Lower Upper
43 100
72 0.0 18.3 27.5#





#35
Carbon Tetrachloride
Concen: 0.056 ppbv m
RT: 7.015 min Scan# 1178
Delta R.T. 0.000 min
Lab File: VL037972.D
Acq: 2 Nov 2021 17:50

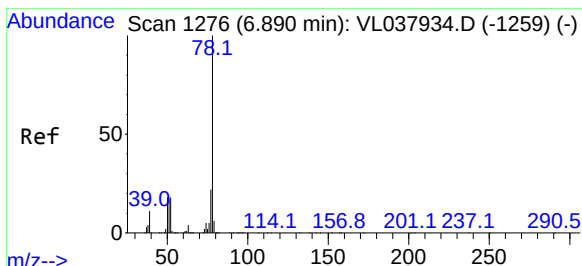
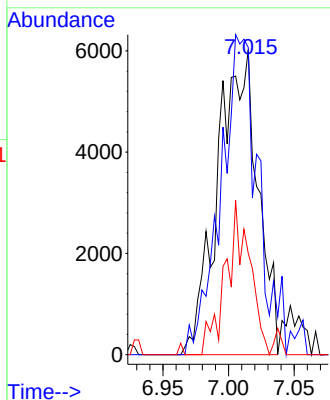
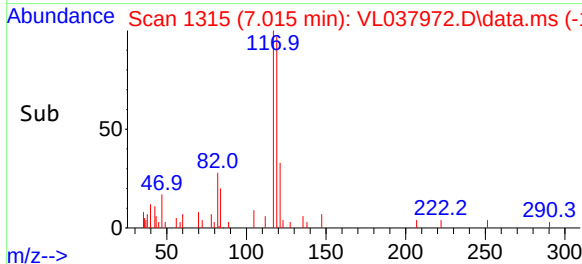
Instrument :
MSVOA_L
ClientSampleId :
IA1



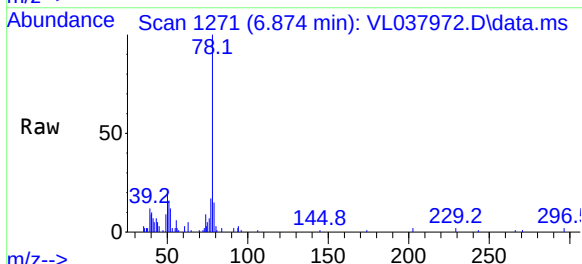
Tgt Ion: 117 Resp: 12789
Ion Ratio Lower Upper
117 100
119 100.7 76.6 114.8
121 33.2 25.1 37.7

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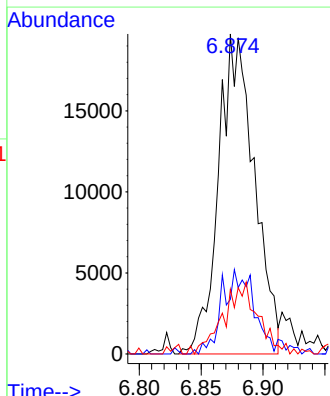
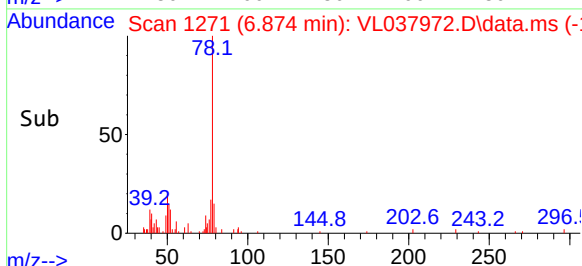
Reviewed By :Semsettin Yesilyurt 11/05/2021
Supervised By :Mahesh Dadoda 11/09/2021

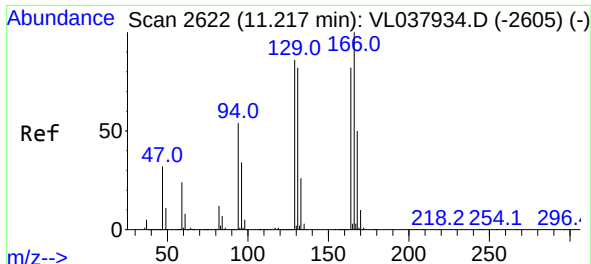


#36
Benzene
Concen: 0.129 ppbv m
RT: 6.874 min Scan# 1271
Delta R.T. -0.016 min
Lab File: VL037972.D
Acq: 2 Nov 2021 17:50



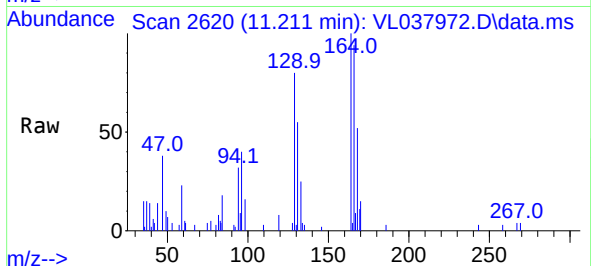
Tgt Ion: 78 Resp: 39661
Ion Ratio Lower Upper
78 100
77 17.1 17.9 26.9#
50 20.2 14.4 21.6





#52
Tetrachloroethene
Concen: 0.125 ppbv m
RT: 11.211 min Scan# 2179
Delta R.T. -0.006 min
Lab File: VL037972.D
Acq: 2 Nov 2021 17:50

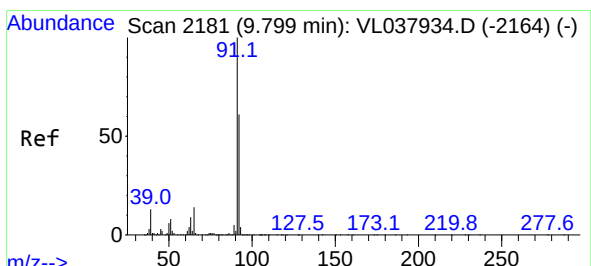
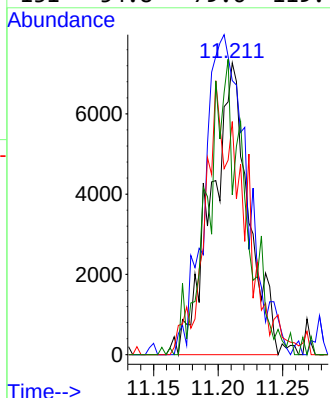
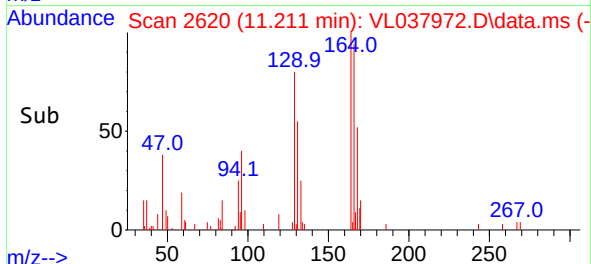
Instrument :
MSVOA_L
ClientSampleId :
1A1



Tgt Ion:164 Resp: 14578
Ion Ratio Lower Upper
164 100
166 93.9 97.6 146.4#
129 79.9 84.2 126.2#
131 54.8 79.6 119.4#

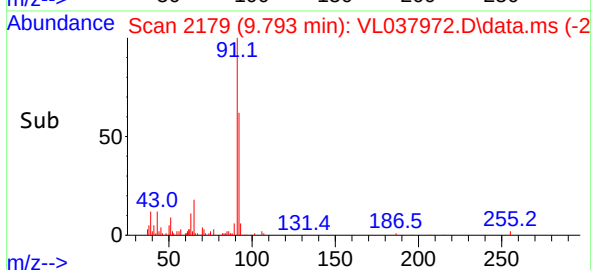
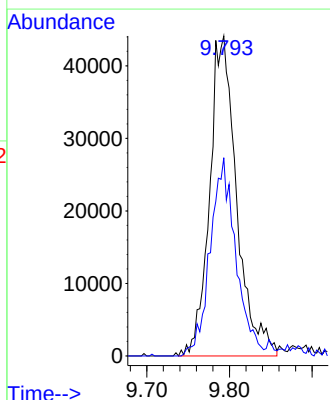
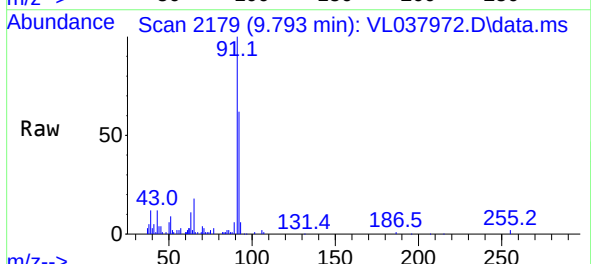
Manual Integrations
APPROVED

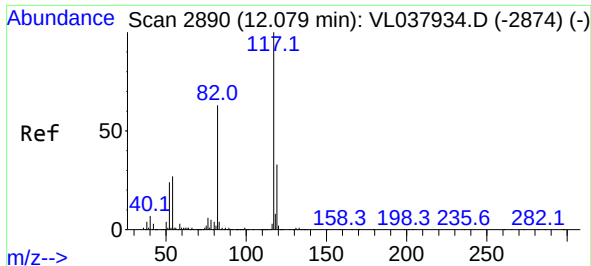
Reviewed By :Semsettin Yesilyurt 11/05/2021
Supervised By :Mahesh Dadoda 11/09/2021



#53
Toluene
Concen: 0.306 ppbv m
RT: 9.793 min Scan# 2179
Delta R.T. -0.006 min
Lab File: VL037972.D
Acq: 2 Nov 2021 17:50

Tgt Ion: 91 Resp: 100490
Ion Ratio Lower Upper
91 100
92 0.0 48.2 72.4#





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.066 min Scan# 2886

Delta R.T. -0.013 min

Lab File: VL037972.D

Acq: 2 Nov 2021 17:50

Instrument :

MSVOA_L

ClientSampleId :

IA1

Tgt Ion: 117 Resp: 3269430

Ion	Ratio	Lower	Upper
117	100		
82	66.0	51.0	76.6
119	34.2	26.9	40.3

117 100

82 66.0 51.0 76.6

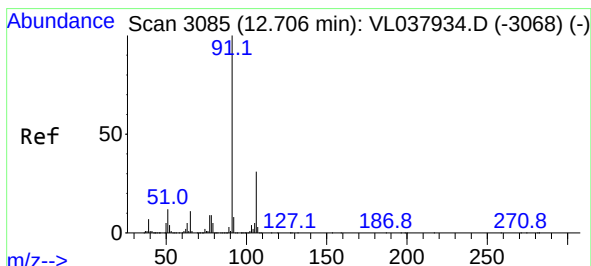
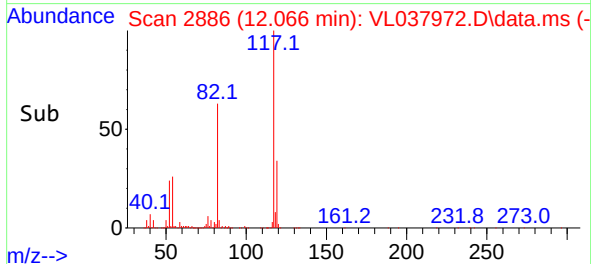
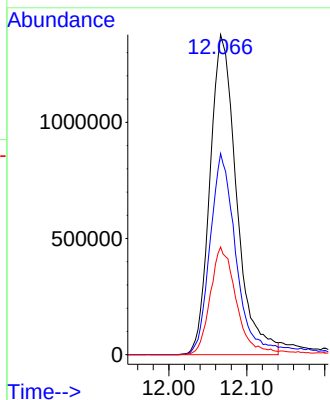
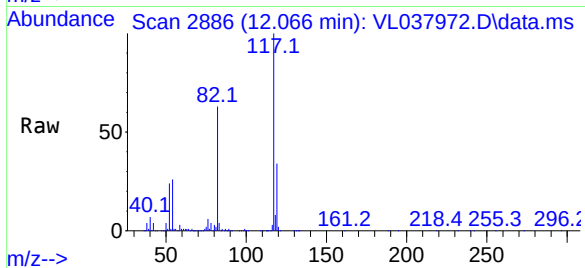
119 34.2 26.9 40.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/05/2021

Supervised By :Mahesh Dadoda 11/09/2021



#58

Ethyl Benzene

Concen: 0.631 ppbv

RT: 12.696 min Scan# 3082

Delta R.T. -0.010 min

Lab File: VL037972.D

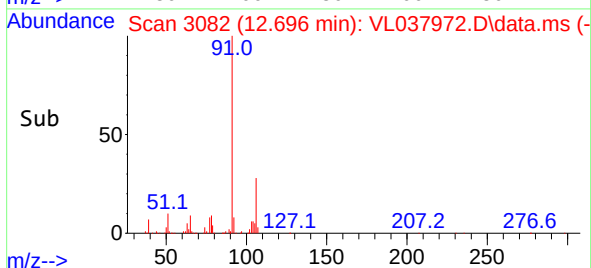
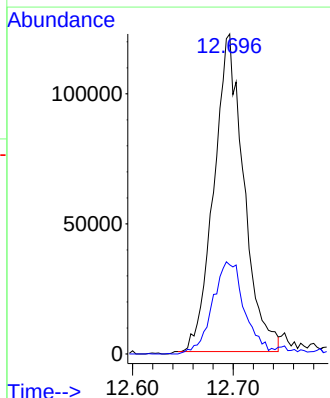
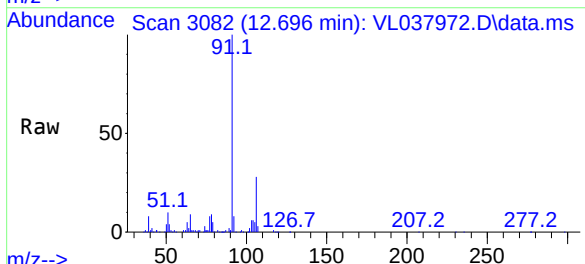
Acq: 2 Nov 2021 17:50

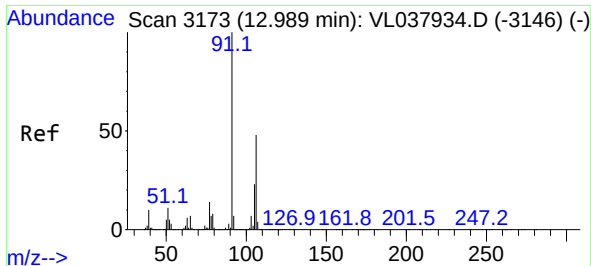
Tgt Ion: 91 Resp: 252193

Ion	Ratio	Lower	Upper
91	100		
106	28.1	25.1	37.7

91 100

106 28.1 25.1 37.7





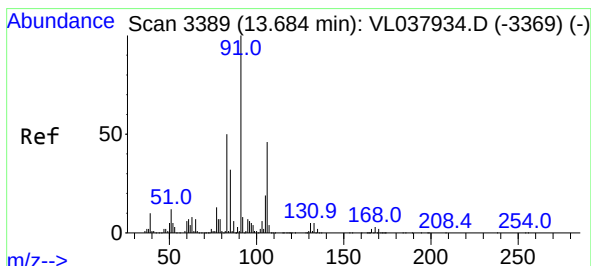
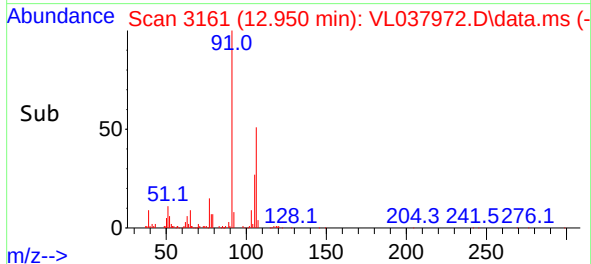
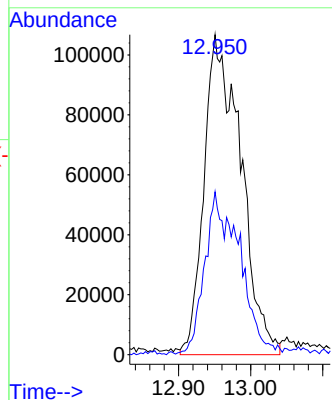
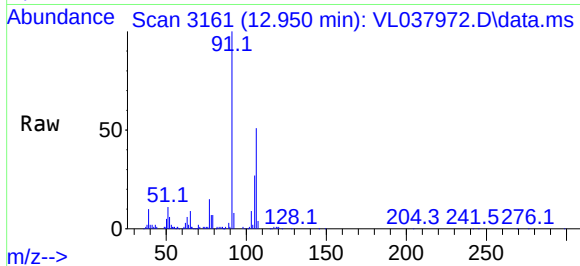
#59
m/p-Xylene
Concen: 1.061 ppbv m
RT: 12.950 min Scan# 3173
Delta R.T. -0.039 min
Lab File: VL037972.D
Acq: 2 Nov 2021 17:50

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion: 91 Resp: 37707
Ion Ratio Lower Upper
91 100
106 0.0 37.1 55.7

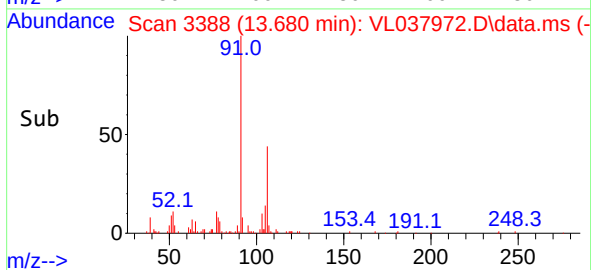
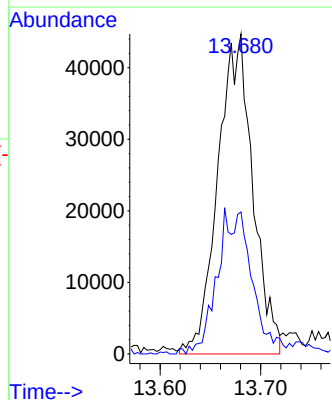
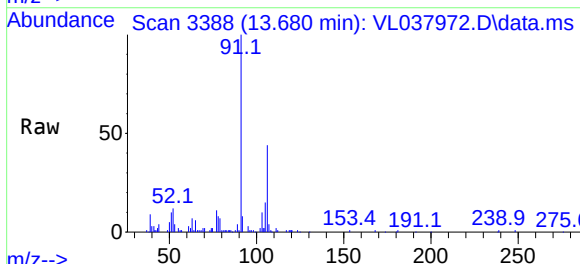
Manual Integrations
APPROVED

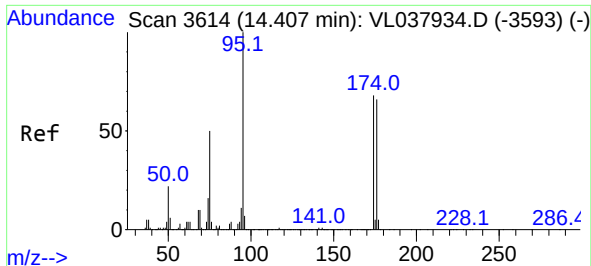
Reviewed By :Semsettin Yesilyurt 11/05/2021
Supervised By :Mahesh Dadoda 11/09/2021



#60
o-Xylene
Concen: 0.321 ppbv m
RT: 13.680 min Scan# 3388
Delta R.T. -0.003 min
Lab File: VL037972.D
Acq: 2 Nov 2021 17:50

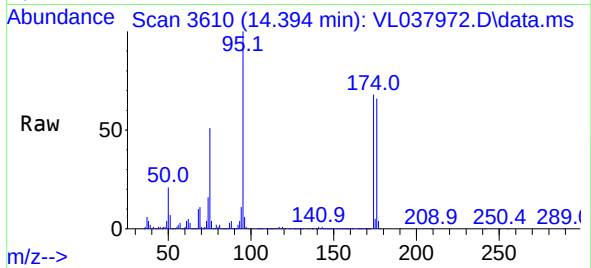
Tgt Ion: 91 Resp: 107671
Ion Ratio Lower Upper
91 100
106 47.3 23.5 70.6





#68
1-Bromo-4-Fluorobenzene
Concen: 10.101 ppbv
RT: 14.394 min Scan# 30
Delta R.T. -0.013 min
Lab File: VL037972.D
Acq: 2 Nov 2021 17:50

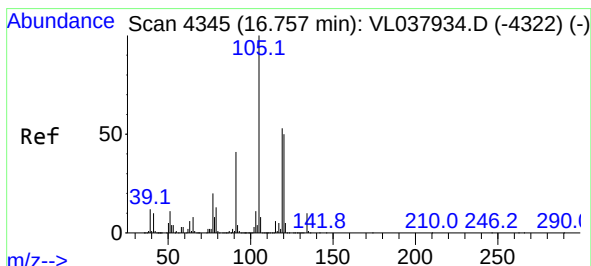
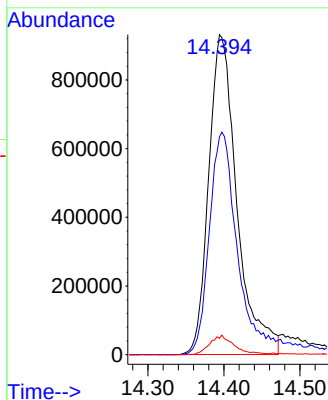
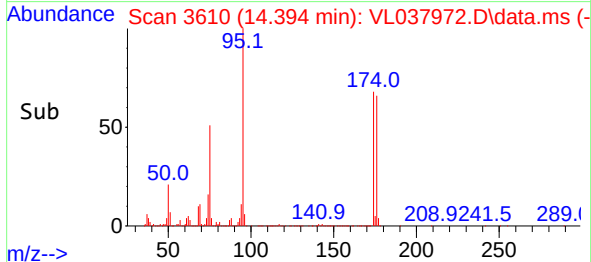
Instrument :
MSVOA_L
ClientSampleId :
IA1



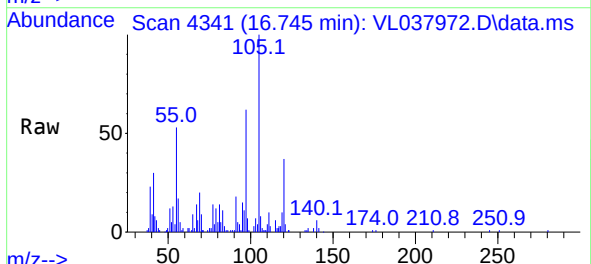
Tgt Ion: 95 Resp: 2400450
Ion Ratio Lower Upper
95 100
174 75.2 58.3 87.5
175 5.8 4.6 6.8

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/05/2021
Supervised By :Mahesh Dadoda 11/09/2021



#74
1,2,4-Trimethylbenzene
Concen: 0.216 ppbv
RT: 16.745 min Scan# 4341
Delta R.T. -0.013 min
Lab File: VL037972.D
Acq: 2 Nov 2021 17:50



Tgt Ion:105 Resp: 81232
Ion Ratio Lower Upper
105 100
120 32.6 40.0 60.0#
91 13.2 32.6 49.0#
77 12.0 15.8 23.8#

