

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL030222\
 Data File : VL038500.D
 Acq On : 3 Mar 2022 2:40
 Operator : SY/AP
 Sample : N1754-01DUP
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA L
 ClientSampleId :
 IA1DUP

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 03/03/2022
 Supervised By : Mahesh Dadoda 03/07/2022

Quant Time: Mar 03 04:29:29 2022
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL022222A
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:
 QLast Update : Tue Feb 22 19:45:51 2022
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	886246	10.00	ppbv	0.03
33) 1,4-Difluorobenzene	7.19	114	1930977	10.00	ppbv	0.03
55) Chlorobenzene-d5	12.10	117	1683900	10.00	ppbv	0.04

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.43	95	1301932	9.34	ppbv	0.04
Spiked Amount	10.000	Range	65 - 135	Recovery	=	93.40%

Target Compounds

	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.06	85	27895	0.199	ppbv	99
3) Chlorodifluoromethane	3.00	51	736412	4.706	ppbv	96
4) Chloromethane	3.15	50	28310	0.521	ppbv	97
9) Propene	3.03	41	81634	1.580	ppbv #	76
11) Trichlorofluoromethane	3.96	101	27763m	0.207	ppbv	
13) Ethanol	3.63	45	12093610	2345.238	ppbv	92
15) Acetone	3.86	43	1262995	16.758	ppbv	99
17) tert-Butyl alcohol	4.32	59	49348m	0.656	ppbv	
19) Isopropyl Alcohol	3.99	45	2647622	60.666	ppbv #	98
20) Methylene Chloride	4.36	84	47452	1.271	ppbv	91
22) trans-1,2-Dichloroethene	4.90	96	16546m	0.379	ppbv	
25) Ethyl Acetate	5.68	43	254207	1.255	ppbv #	93
34) 2-Butanone	5.25	43	81863m	1.348	ppbv	
35) Carbon Tetrachloride	7.03	117	15256m	0.112	ppbv	
36) Benzene	6.90	78	36563	0.215	ppbv	99
52) Tetrachloroethene	11.23	164	60213	1.067	ppbv	95
53) Toluene	9.82	91	154959m	0.840	ppbv	
59) m/p-Xylene	12.98	91	24987m	0.126	ppbv	
61) Styrene	13.54	104	12202m	0.142	ppbv	
69) p-Isopropyltoluene	17.66	119	71638m	0.296	ppbv	

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

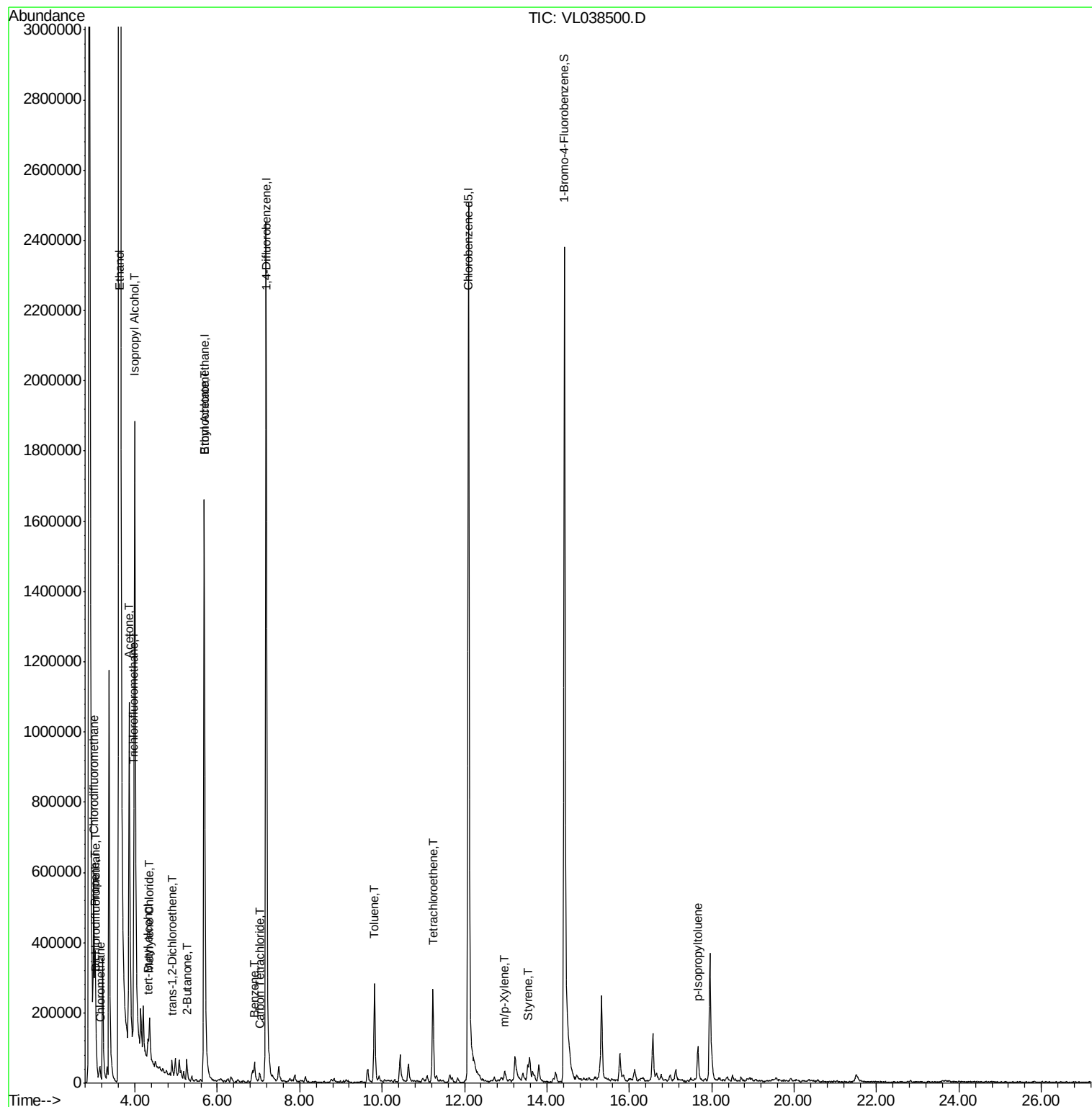
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL030222\
Data File : VL038500.D
Acq On : 3 Mar 2022 2:40
Operator : SY/AP
Sample : N1754-01DUP
Misc : 400mL/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

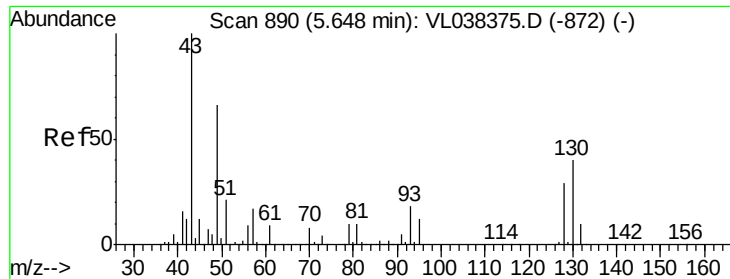
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

Quant Time: Mar 03 04:29:29 2022
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL022222
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:
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Supervised By :Mahesh Dadoda 03/07/2022





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.68

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 3 Mar 2022 2:40

Tot Ion:

Ion Ratio

49 100

128 43.

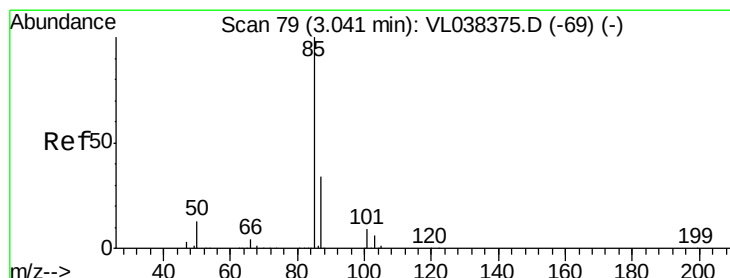
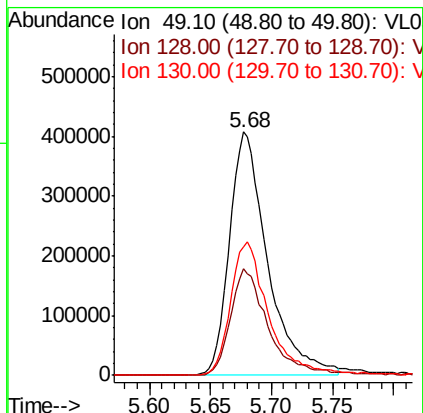
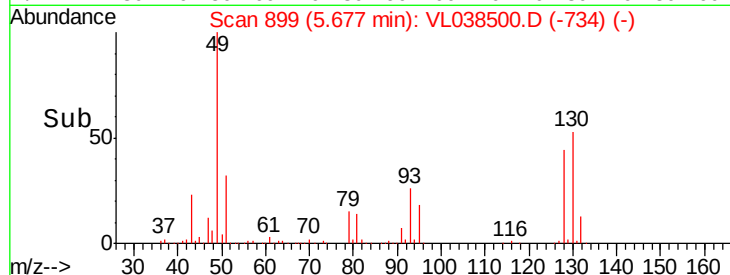
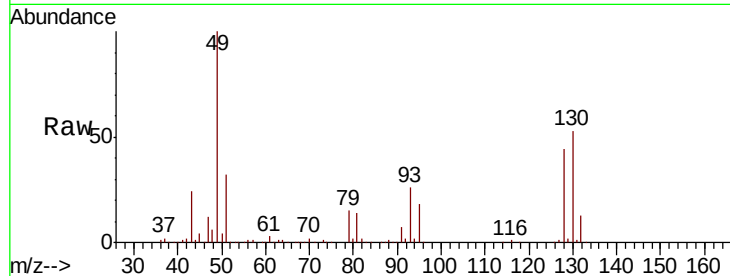
130 55.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 03/03/2022

Supervised By :Mahesh Dadoda 03/07/2022



#2

Dichlorodifluoromethane

Concen: 0.199 ppbv

RT: 3.06 min Scan# 85

Delta R.T. 0.02 min

Lab File: VL038500.D

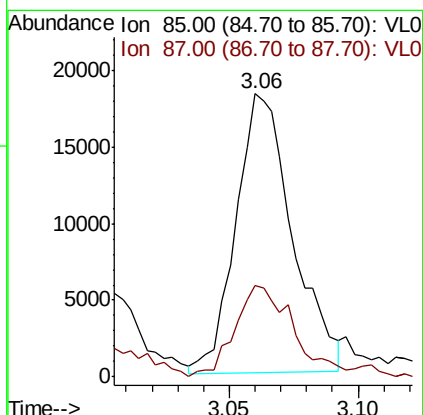
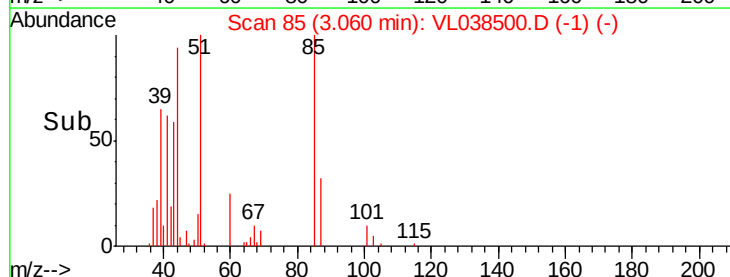
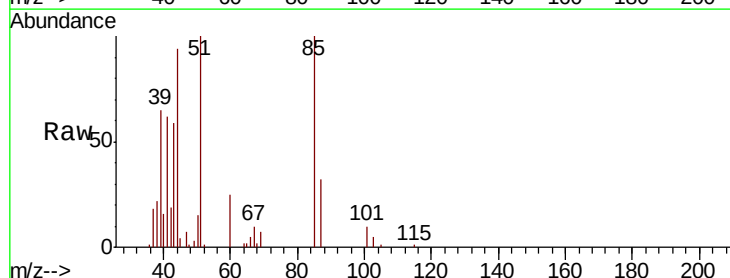
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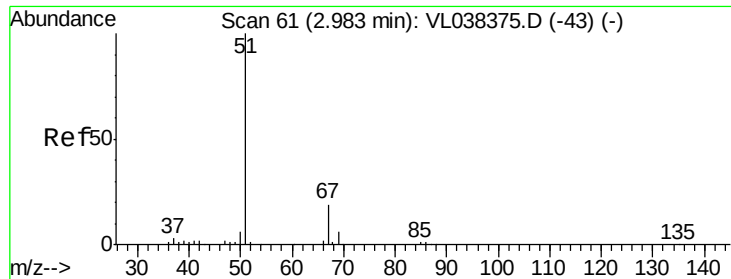
Tgt Ion: 85 Resp: 27895

Ion Ratio Lower Upper

85 100

87 33.6 27.4 41.0





#3

Chlorodifluoromethane

Concen: 4.706 ppbv

RT: 3.00

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 3 Mar 2022 2:40

Tot Ion:

Ion Ratio

51 100

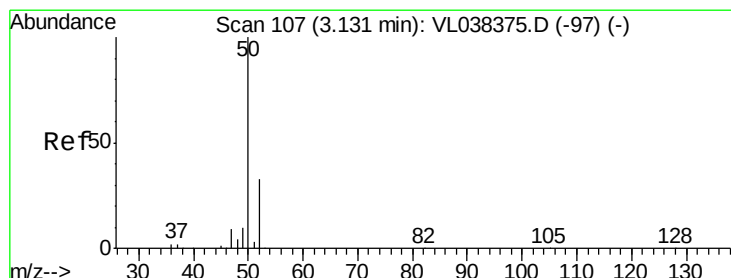
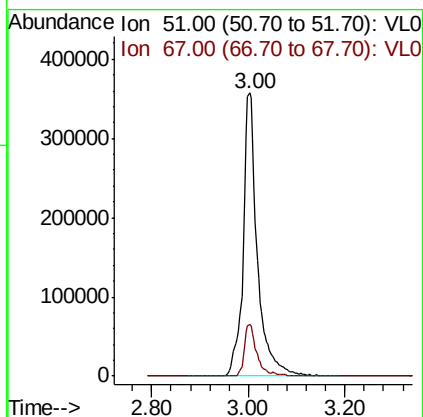
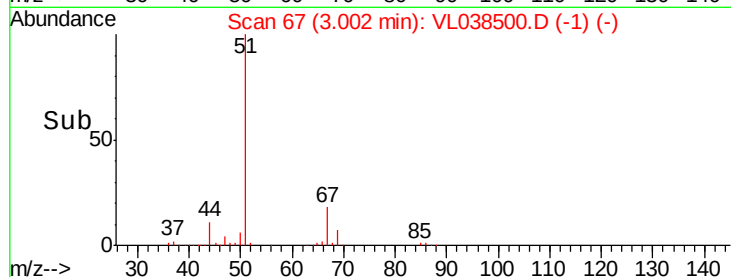
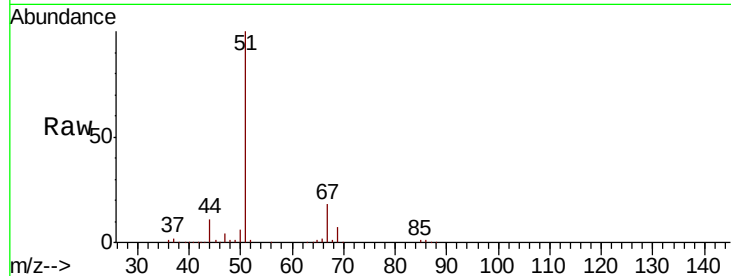
67 16.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 03/03/2022

Supervised By :Mahesh Dadoda 03/07/2022



#4

Chloromethane

Concen: 0.521 ppbv

RT: 3.15 min Scan# 114

Delta R.T. 0.02 min

Lab File: VL038500.D

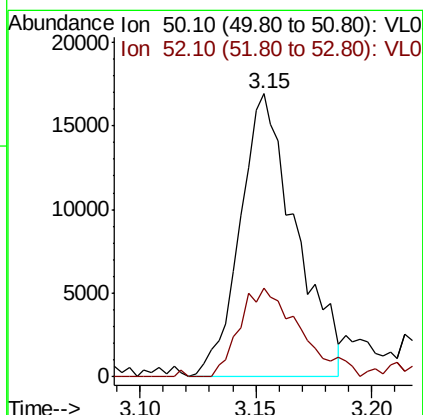
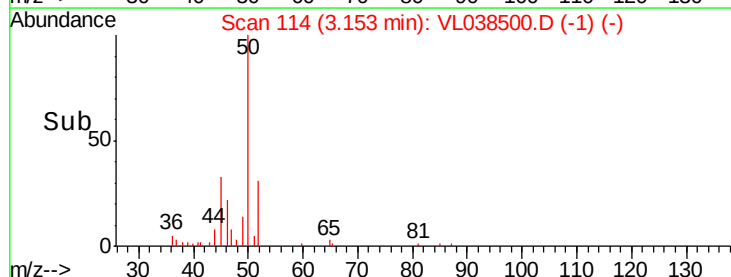
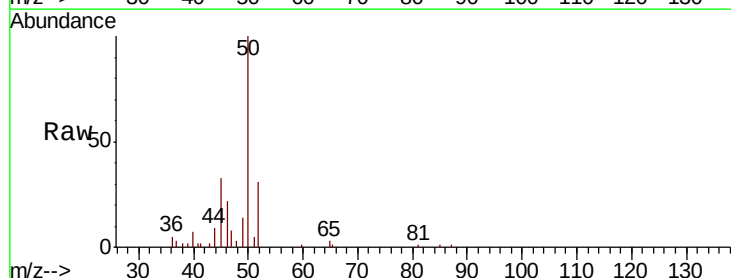
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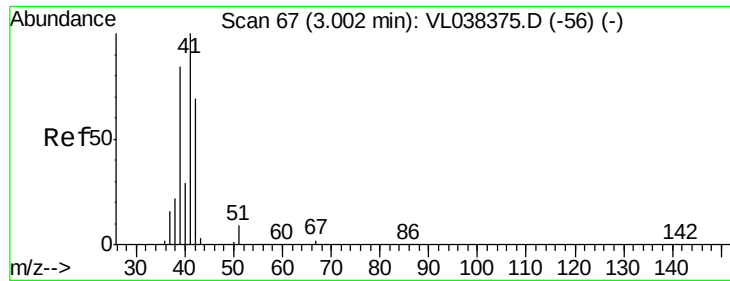
Tgt Ion: 50 Resp: 28310

Ion Ratio Lower Upper

50 100

52 31.4 26.5 39.7



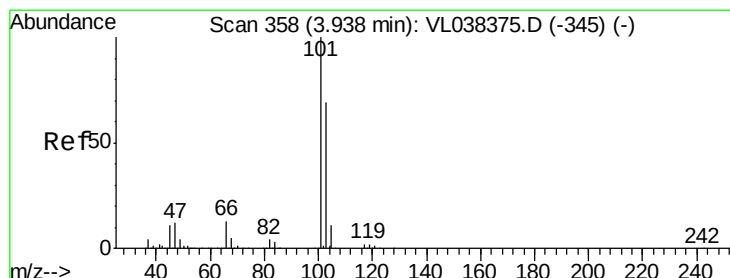
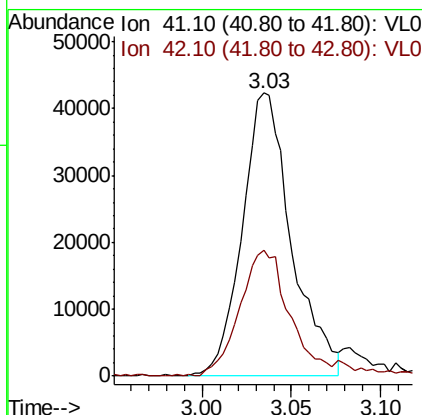
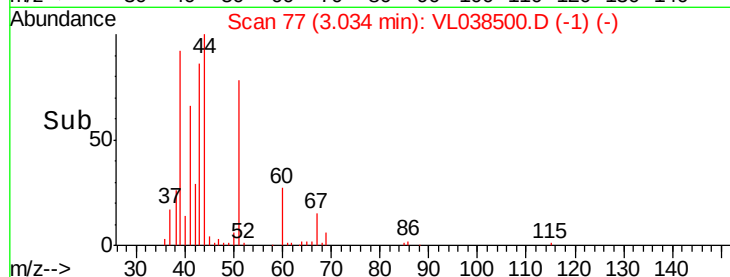
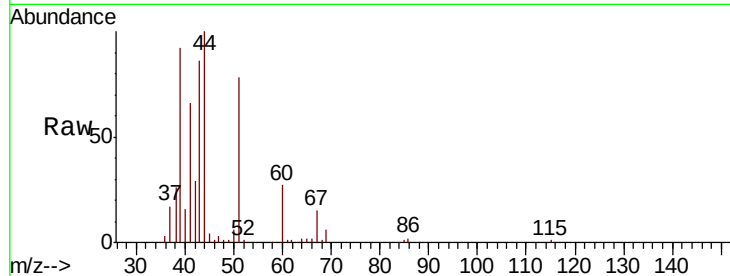


#9
 Propene
 Concen: 1.580 ppbv
 RT: 3.03
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 3 Mar 2022 2:40

Tot Ion:
 Ion Ratio
 41 100
 42 48.

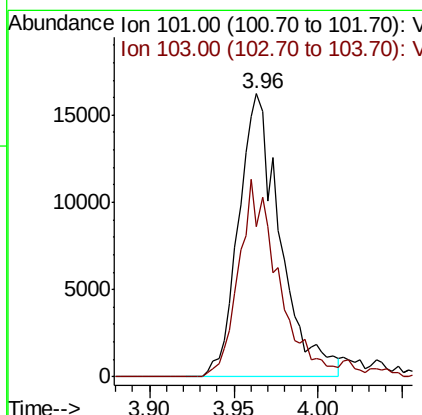
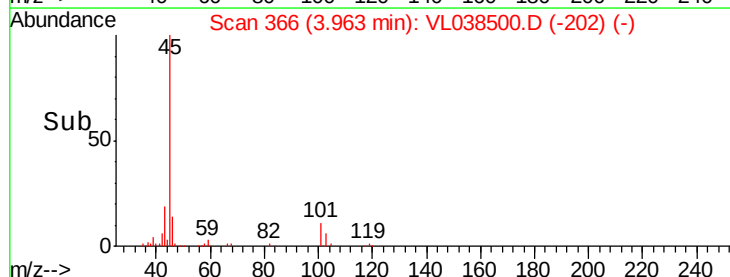
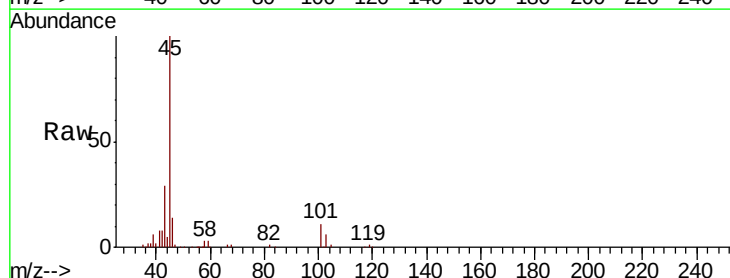
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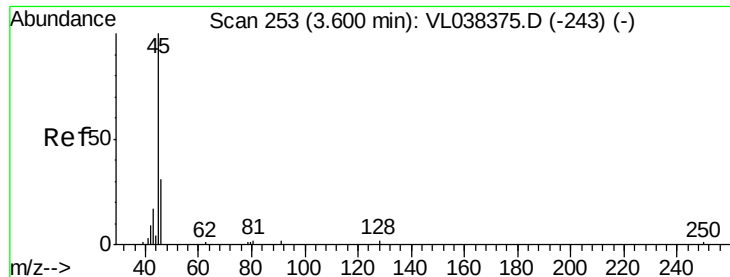
Reviewed By :Semsettin Yesilyurt 03/03/2022
 Supervised By :Mahesh Dadoda 03/07/2022



#11
 Trichlorofluoromethane
 Concen: 0.207 ppbv m
 RT: 3.96 min Scan# 366
 Delta R.T. 0.03 min
 Lab File: VL038500.D
 Acq: 3 Mar 2022 2:40

Tgt Ion:101 Resp: 27763
 Ion Ratio Lower Upper
 101 100
 103 52.9 55.0 82.4#



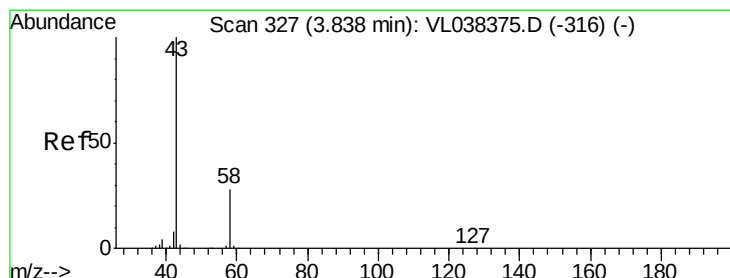
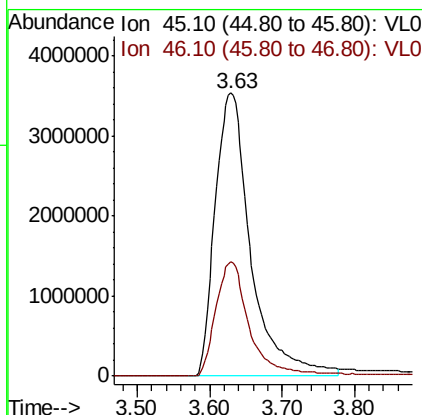
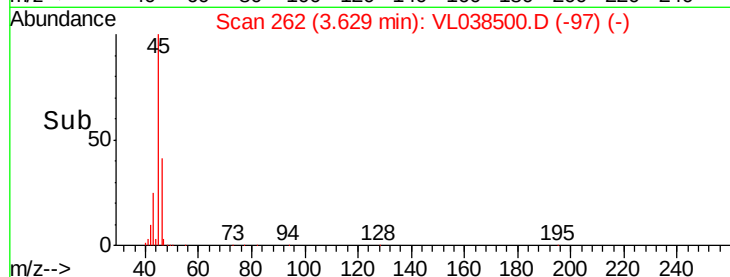
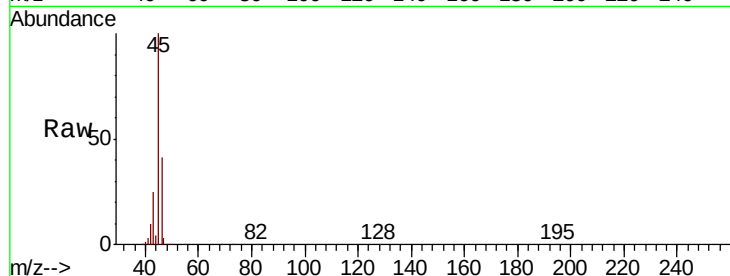


#13
Ethanol
Concen: 2345.238 ppbv
RT: 3.63
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 3 Mar 2022 2:40

Tot Ion:
Ion Ratio
45 100
46 39.

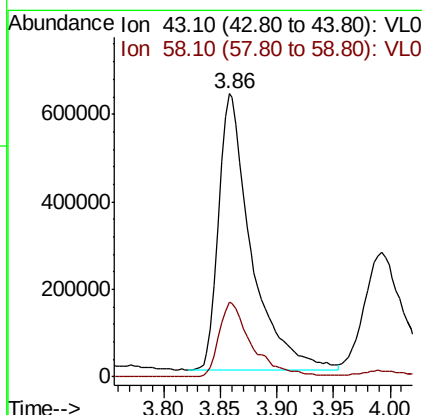
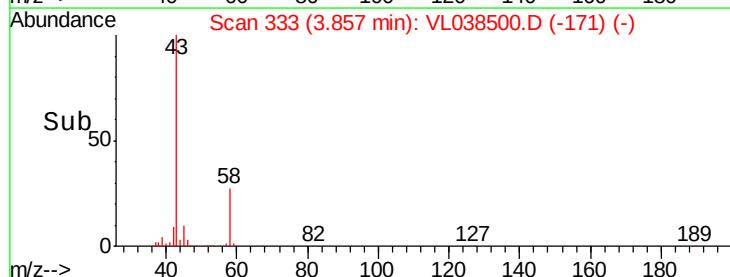
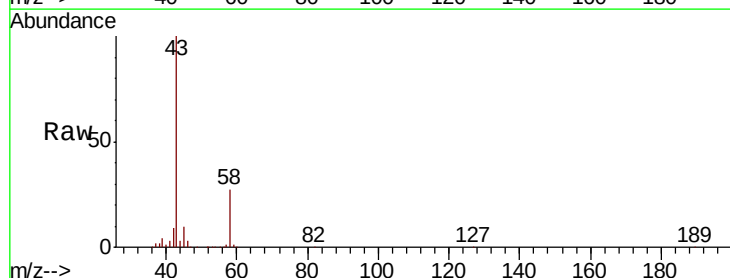
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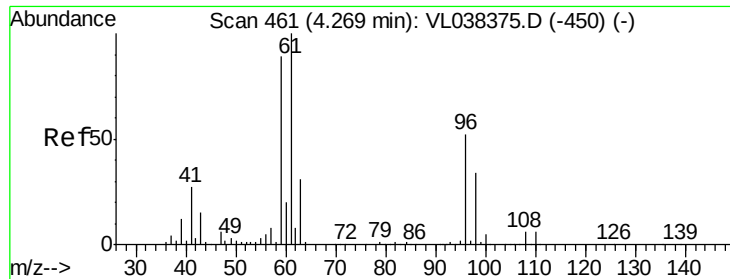
Reviewed By :Semsettin Yesilyurt 03/03/2022
Supervised By :Mahesh Dadoda 03/07/2022



#15
Acetone
Concen: 16.758 ppbv
RT: 3.86 min Scan# 333
Delta R.T. 0.02 min
Lab File: VL038500.D
Acq: 3 Mar 2022 2:40

Tgt Ion: 43 Resp: 1262995
Ion Ratio Lower Upper
43 100
58 27.5 21.7 32.5



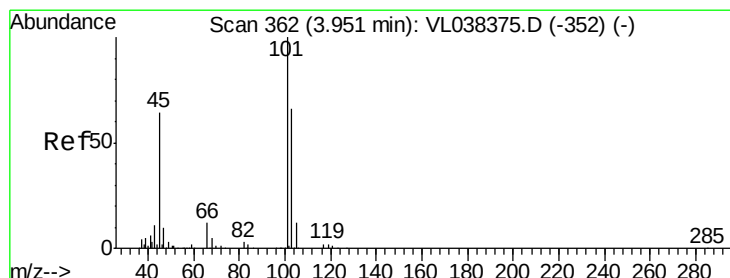
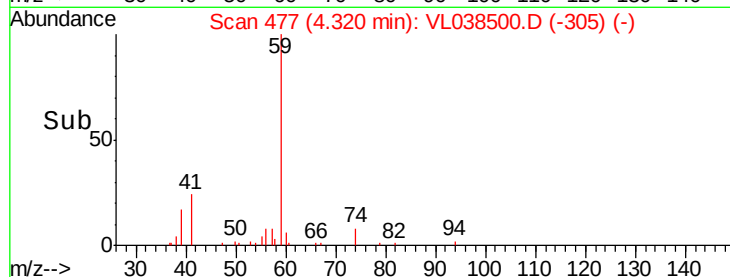
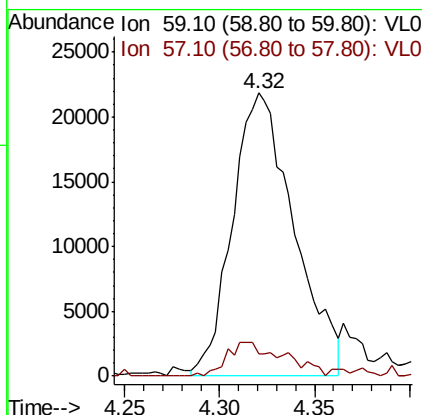
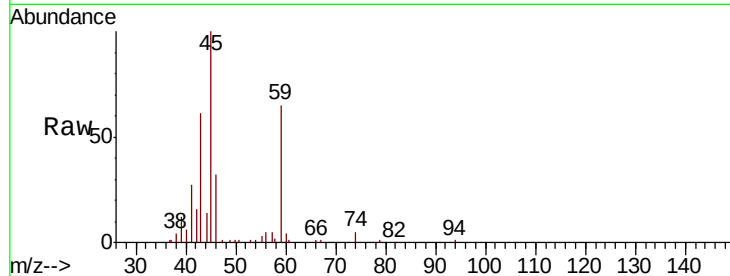


#17
 tert-Butyl alcohol
 Concen: 0.656 ppbv m
 RT: 4.32
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId :
 Acq: 3 Mar 2022 2:40

Tot Ion:
 Ion Ratio
 59 100
 57 18.

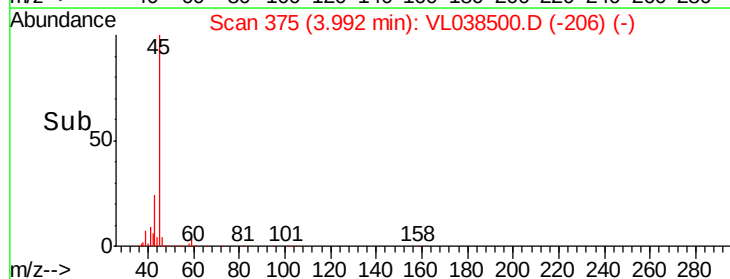
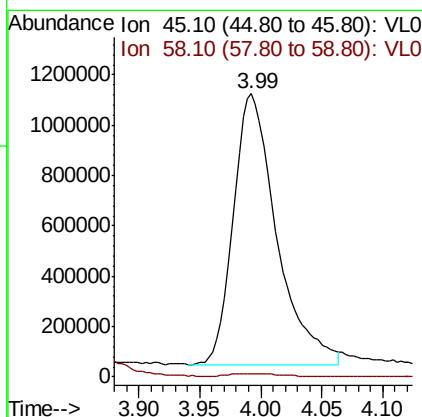
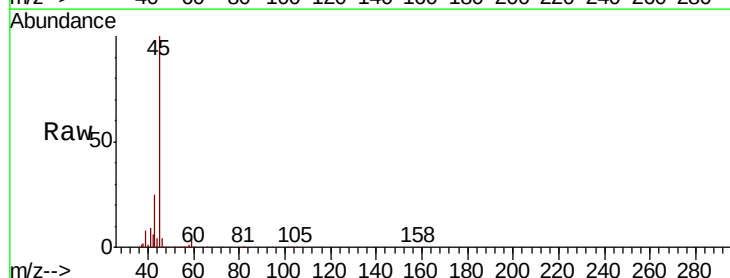
Manual Integrations
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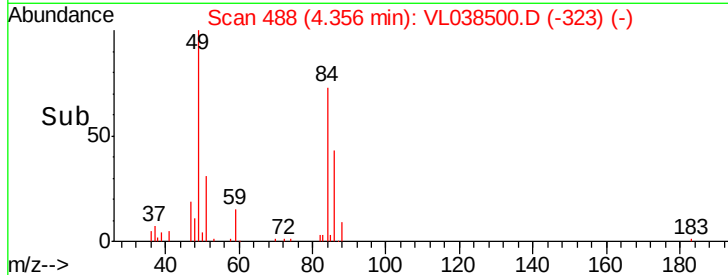
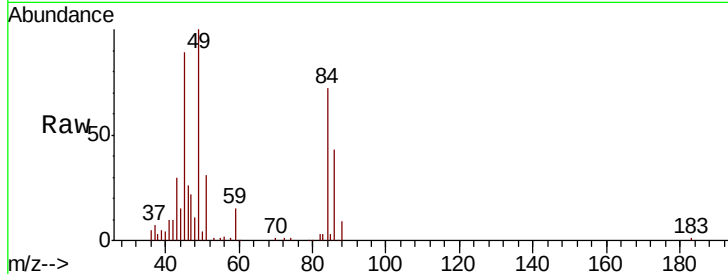
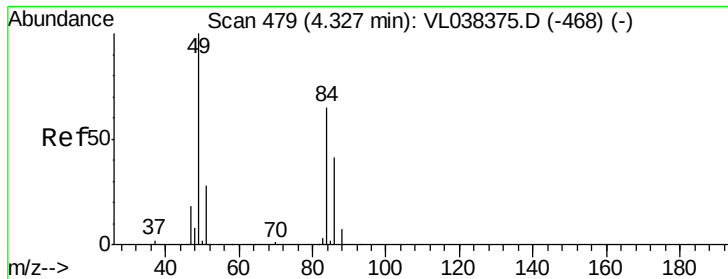
Reviewed By :Semsettin Yesilyurt 03/03/2022
 Supervised By :Mahesh Dadoda 03/07/2022



#19
 Isopropyl Alcohol
 Concen: 60.666 ppbv
 RT: 3.99 min Scan# 375
 Delta R.T. 0.04 min
 Lab File: VL038500.D
 Acq: 3 Mar 2022 2:40

Tgt Ion: 45 Resp: 2647622
 Ion Ratio Lower Upper
 45 100
 58 1.8 1.8 2.8#



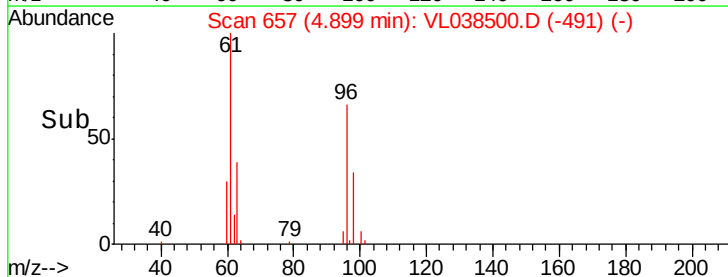
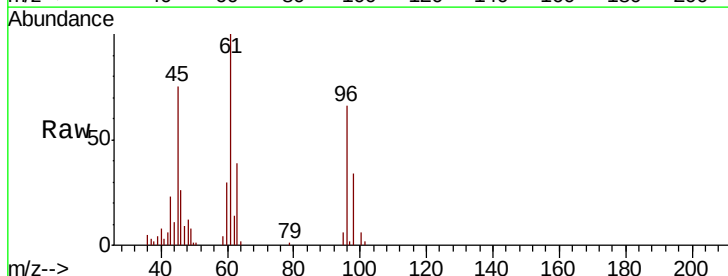
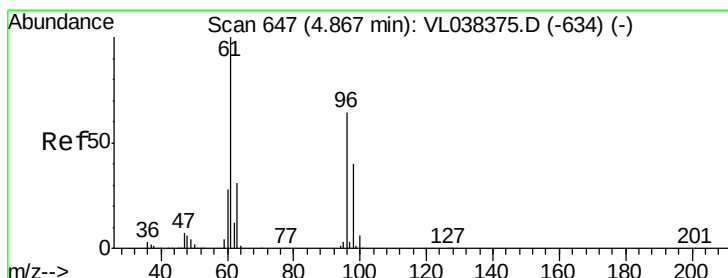
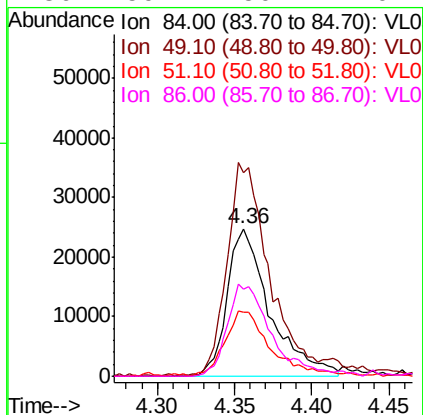


#20
Methvlene Chloride
Concen: 1.271 ppbv
RT: 4.36
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 3 Mar 2022 2:40

Tot Ion:
Ion Ratio
84 100
49 137.
51 43.
86 59.1 50.7 76.1

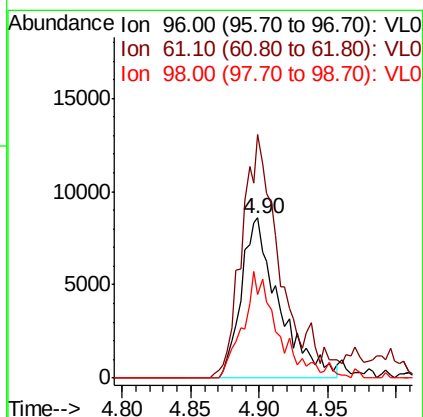
Manual Integrations
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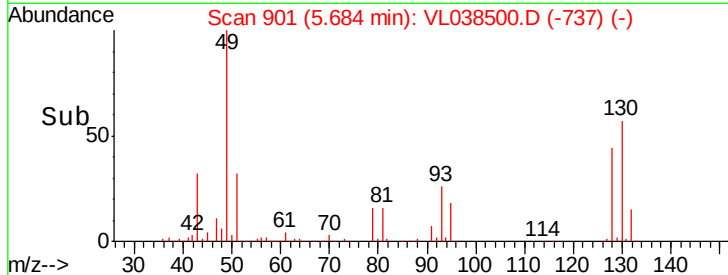
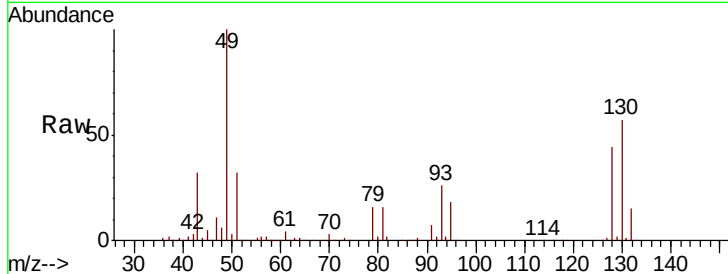
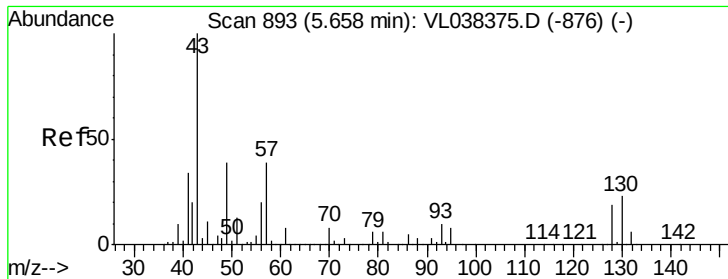
Reviewed By :Semsettin Yesilyurt 03/03/2022
Supervised By :Mahesh Dadoda 03/07/2022



#22
trans-1,2-Dichloroethene
Concen: 0.379 ppbv m
RT: 4.90 min Scan# 657
Delta R.T. 0.03 min
Lab File: VL038500.D
Acq: 3 Mar 2022 2:40

Tgt Ion: 96 Resp: 16546
Ion Ratio Lower Upper
96 100
61 152.0 124.2 186.4
98 51.9 49.1 73.7



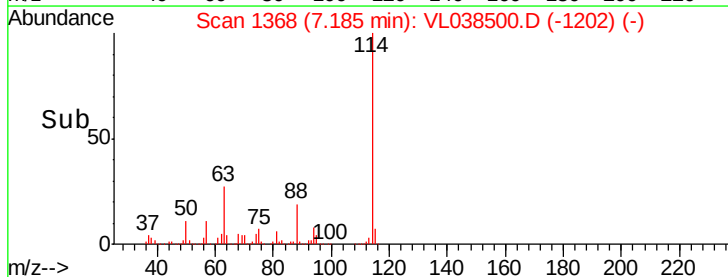
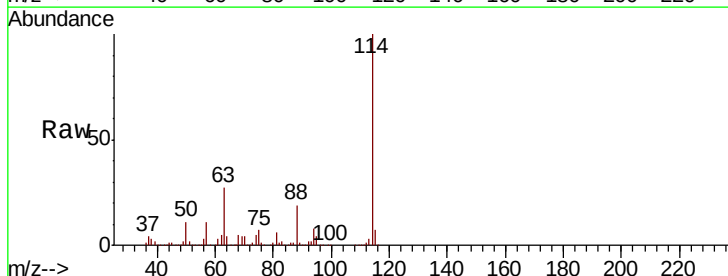
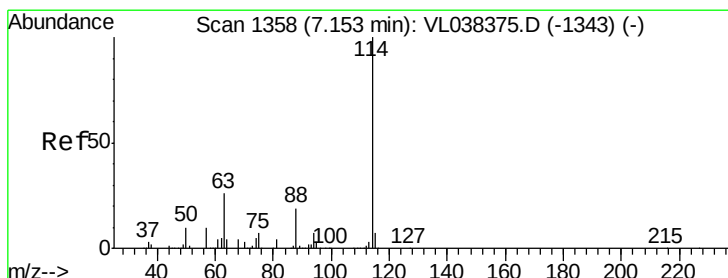
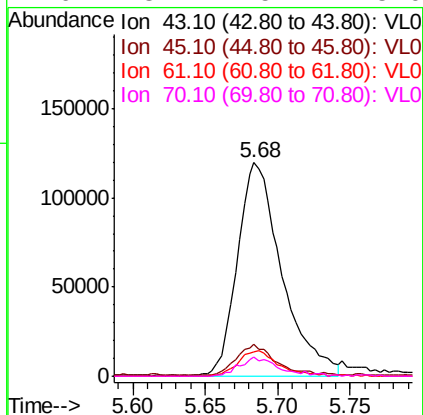


#25
Ethyl Acetate
Concen: 1.255 ppbv
RT: 5.68
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 3 Mar 2022 2:40

Tot Ion:
Ion Ratio
43 100
45 13.
61 11.
70 8.1 5.4 8.0#

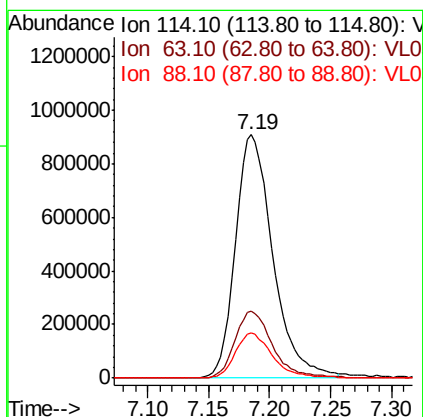
Manual Integrations
APPROVED

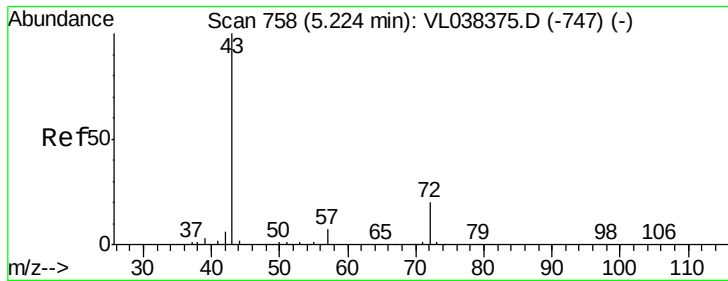
Reviewed By :Semsettin Yesilyurt 03/03/2022
Supervised By :Mahesh Dadoda 03/07/2022



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.19 min Scan# 1368
Delta R.T.: 0.03 min
Lab File: VL038500.D
Acq: 3 Mar 2022 2:40

Tgt Ion:114 Resp: 1930977
Ion Ratio Lower Upper
114 100
63 28.1 22.2 33.2
88 18.8 15.2 22.8



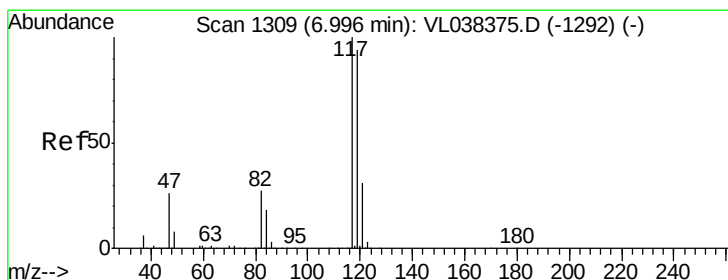
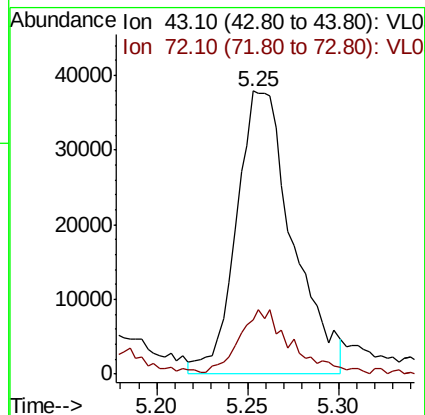
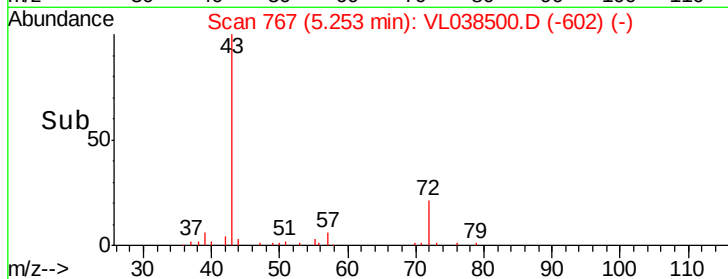
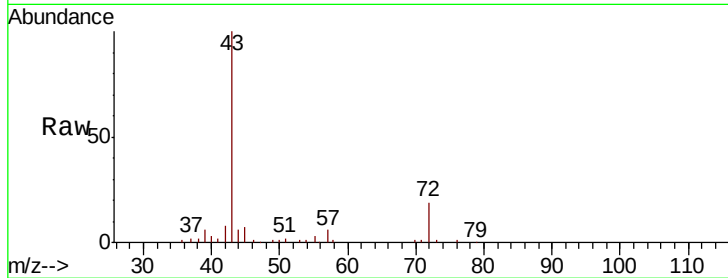


#34
2-Butanone
Concen: 1.348 ppbv m
RT: 5.25
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 3 Mar 2022 2:40

Tot Ion:
Ion Ratio
43 100
72 21.

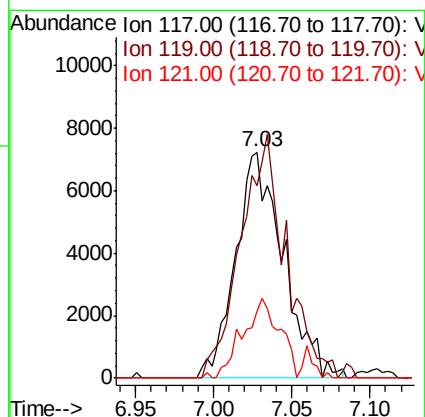
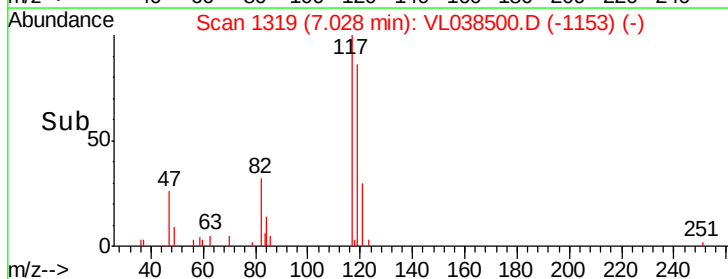
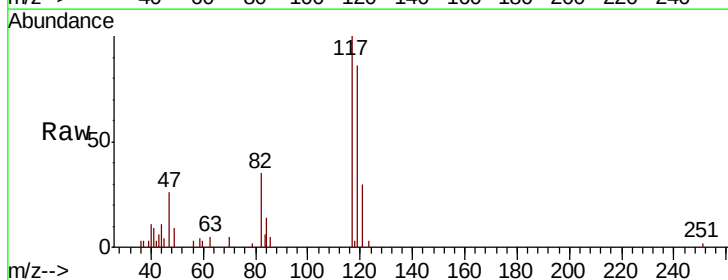
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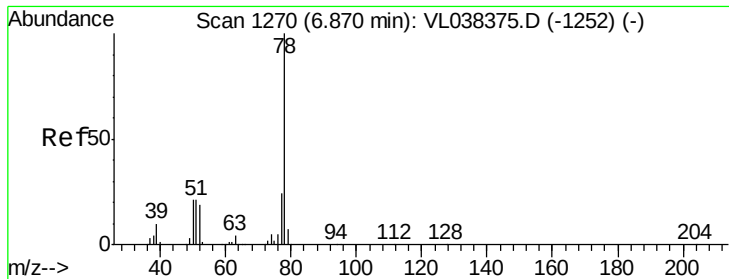
Reviewed By :Semsettin Yesilyurt 03/03/2022
Supervised By :Mahesh Dadoda 03/07/2022



#35
Carbon Tetrachloride
Concen: 0.112 ppbv m
RT: 7.03 min Scan# 1319
Delta R.T. 0.03 min
Lab File: VL038500.D
Acq: 3 Mar 2022 2:40

Tgt Ion:117 Resp: 15256
Ion Ratio Lower Upper
117 100
119 85.5 74.9 112.3
121 29.9 24.8 37.2





#36

Benzene

Concen: 0.215 ppbv

RT: 6.90 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 3 Mar 2022 2:40

Tot Ion:

Ion Ratio

78 100

77 24.

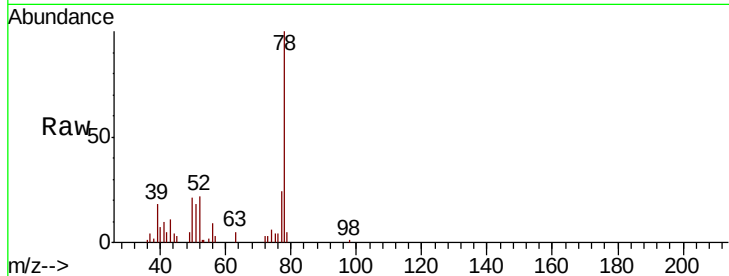
50 20.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 03/03/2022

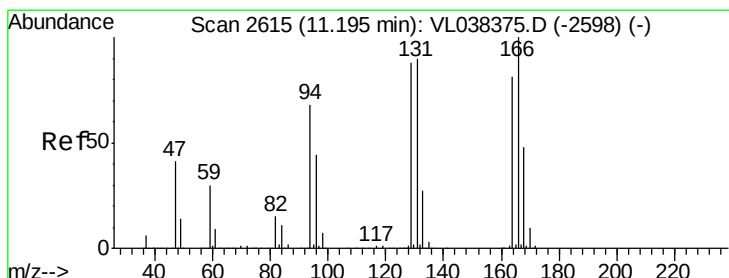
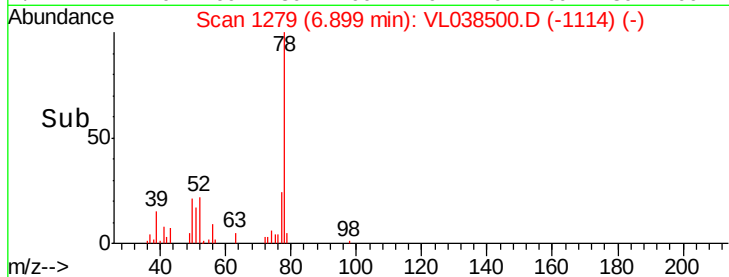
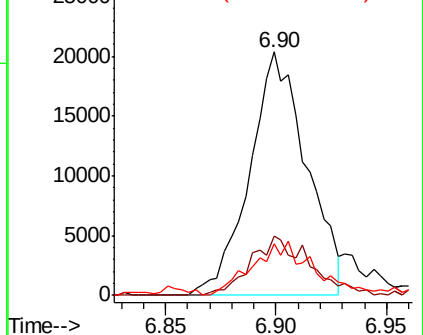
Supervised By :Mahesh Dadoda 03/07/2022



Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0



#52

Tetrachloroethene

Concen: 1.067 ppbv

RT: 11.23 min Scan# 2626

Delta R.T. 0.04 min

Lab File: VL038500.D

Acq: 3 Mar 2022 2:40

Tgt Ion:164 Resp: 60213

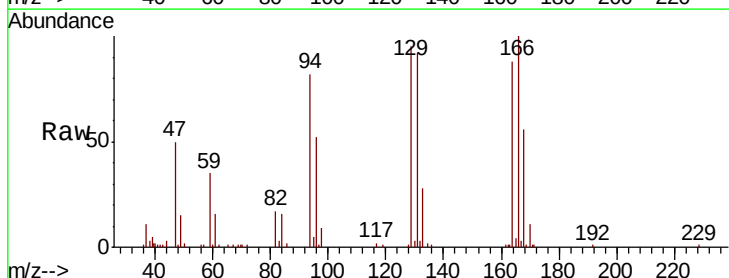
Ion Ratio Lower Upper

164 100

166 113.7 98.6 148.0

129 107.7 86.9 130.3

131 103.8 88.6 133.0

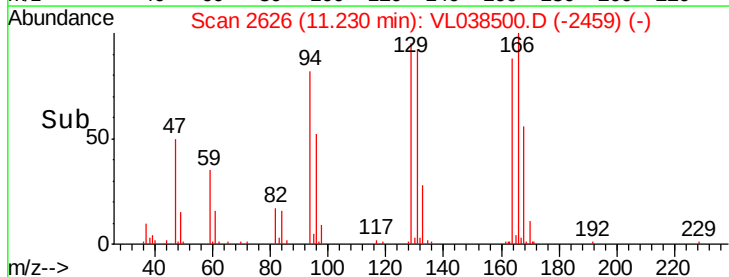
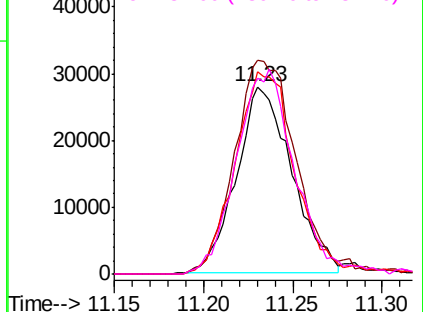


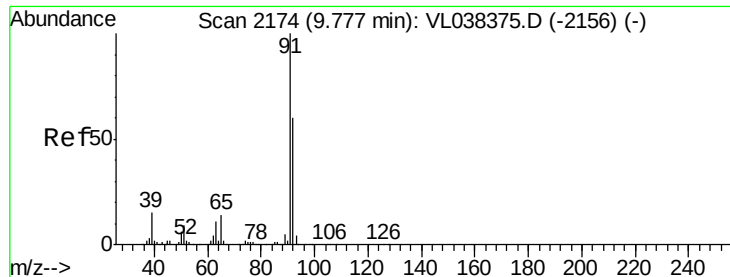
Abundance Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V





#53

Toluene

Concen: 0.840 ppbv m

RT: 9.82

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 3 Mar 2022 2:40

Tot Ion:

Ion Ratio

91 100

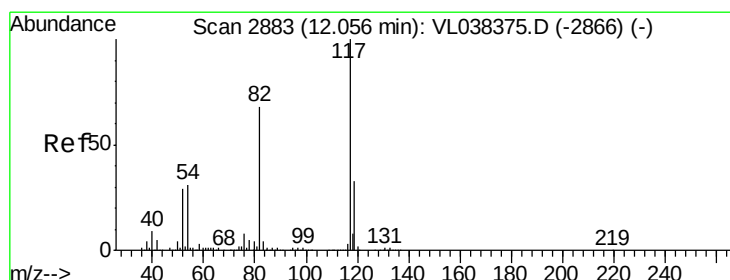
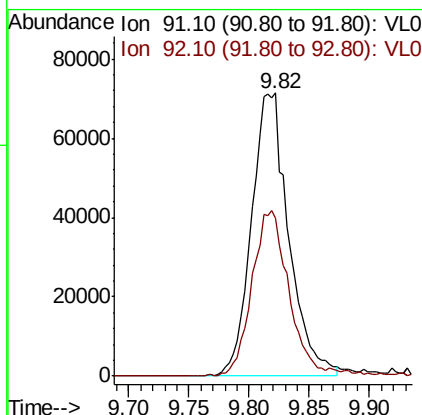
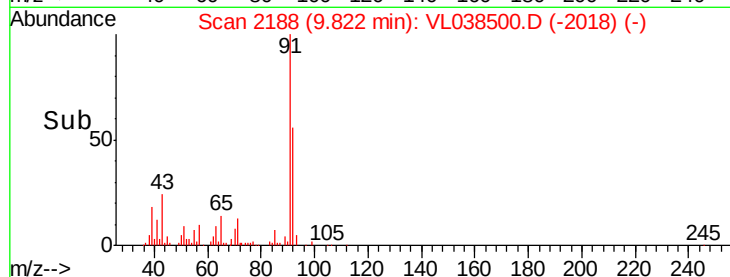
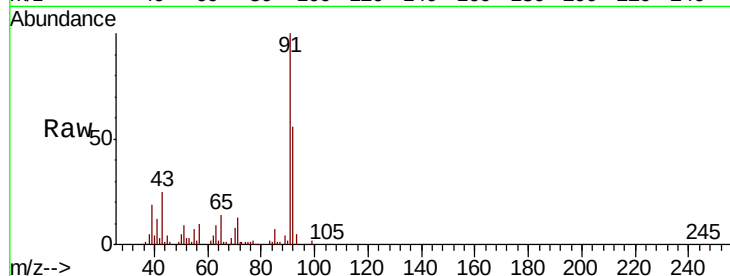
92 59.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/03/2022

Supervised By :Mahesh Dadoda 03/07/2022



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.10 min Scan# 2896

Delta R.T. 0.04 min

Lab File: VL038500.D

Acq: 3 Mar 2022 2:40

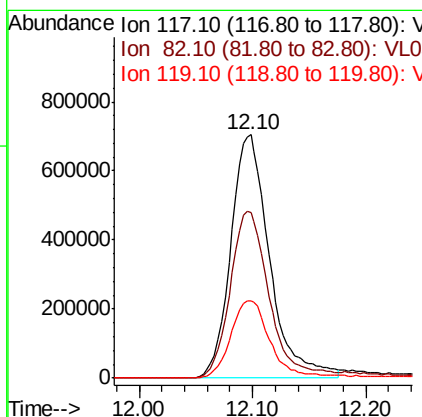
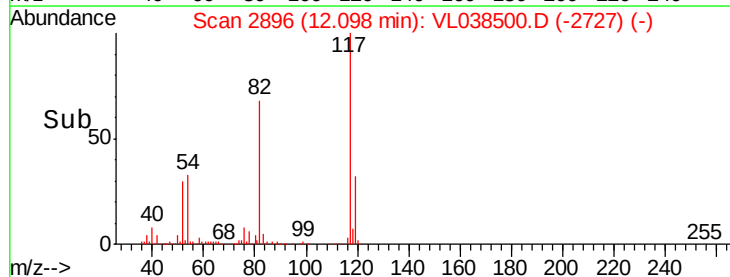
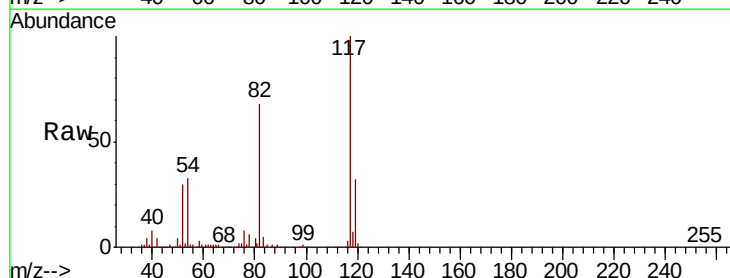
Tgt Ion:117 Resp: 1683900

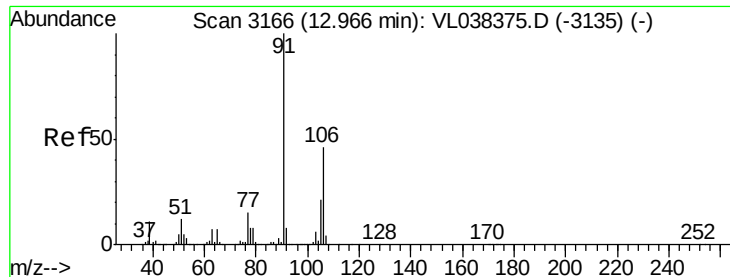
Ion Ratio Lower Upper

117 100

82 73.2 54.9 82.3

119 33.8 46.1 69.1#



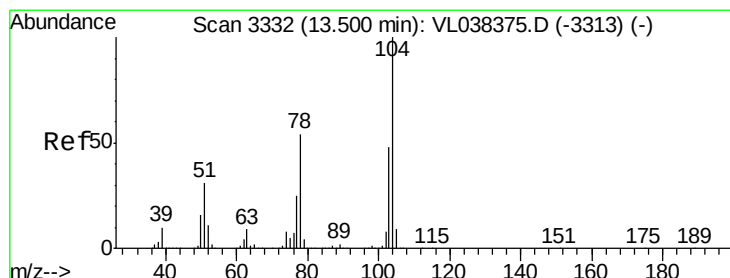
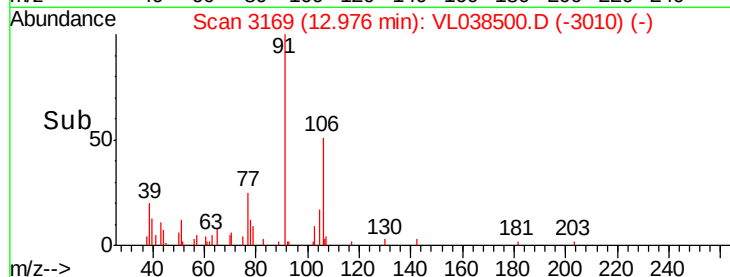
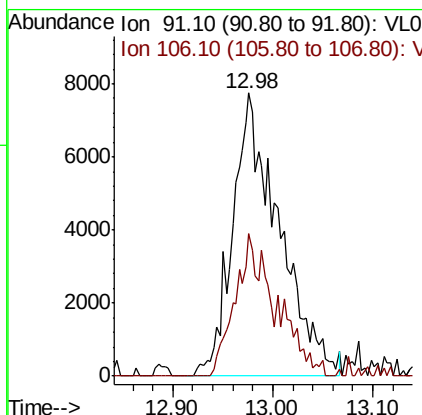
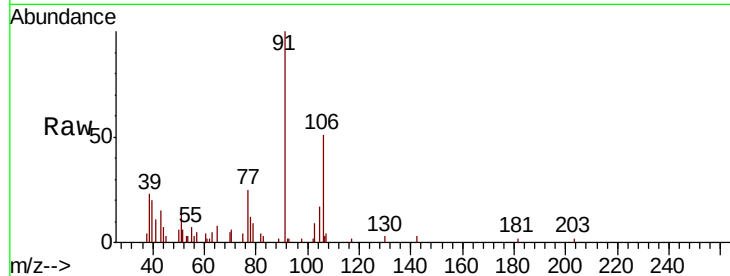


#59
m/p-Xylene
Concen: 0.126 ppbv m
RT: 12.98
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 3 Mar 2022 2:40

Tot Ion:
Ion Ratio
91 100
106 0.

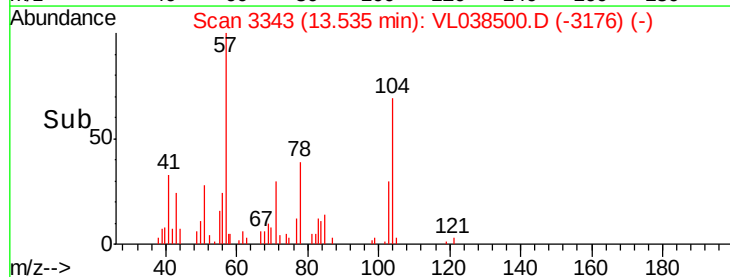
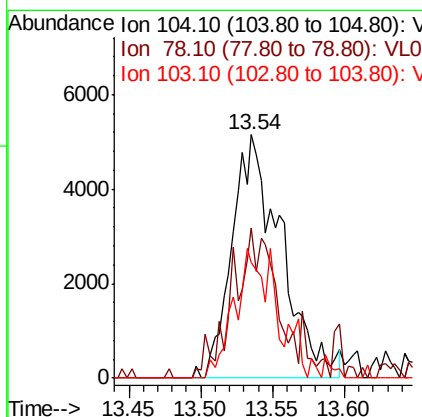
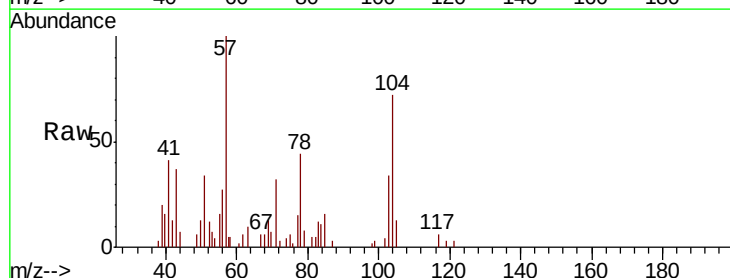
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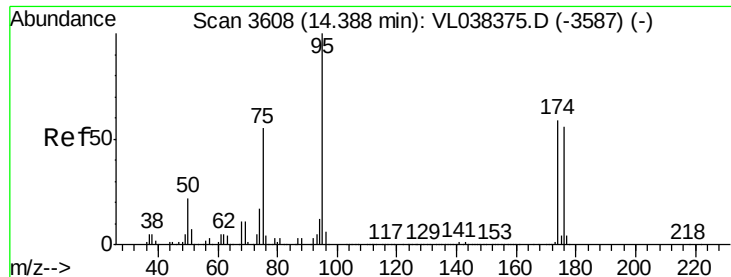
Reviewed By :Semsettin Yesilyurt 03/03/2022
Supervised By :Mahesh Dadoda 03/07/2022



#61
Styrene
Concen: 0.142 ppbv m
RT: 13.54 min Scan# 3343
Delta R.T. 0.04 min
Lab File: VL038500.D
Acq: 3 Mar 2022 2:40

Tgt Ion:104 Resp: 12202
Ion Ratio Lower Upper
104 100
78 0.0 44.2 66.4#
103 0.0 38.4 57.6#



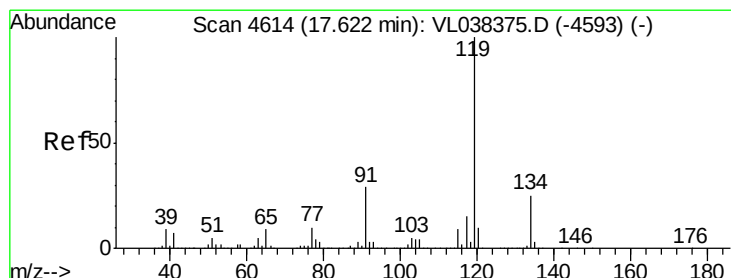
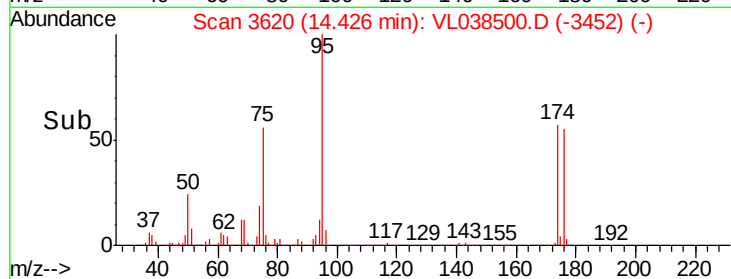
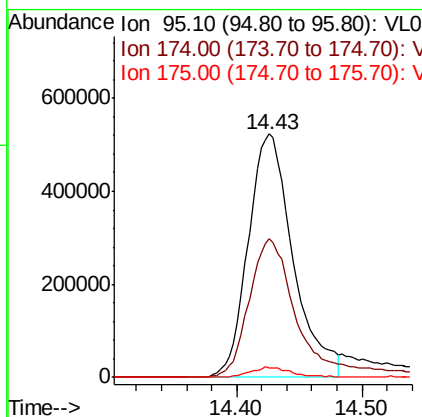
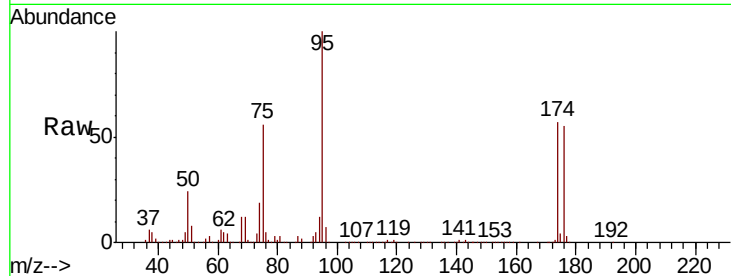


#68
1-Bromo-4-Fluorobenzene
Concen: 9.344 ppbv
RT: 14.43 min
Delta R.T.: 0.04 min
Lab File: VL038500.D
Acq: 3 Mar 2022 2:40

Tot Ion:
Ion Ratio
95 100
174 64.
175 4.

Manual Integrations
APPROVED

Reviewed By : Semsettin Yesilyurt 03/03/2022
Supervised By : Mahesh Dadoda 03/07/2022



#69
p-Isopropyltoluene
Concen: 0.296 ppbv m
RT: 17.66 min Scan# 4626
Delta R.T.: 0.04 min
Lab File: VL038500.D
Acq: 3 Mar 2022 2:40

Tgt Ion: 119 Resp: 71638
Ion Ratio Lower Upper
119 100
134 0.0 20.4 30.6#
91 0.0 23.8 35.8#

