

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL012722\
 Data File : VL038303.D
 Acq On : 27 Jan 2022 19:20
 Operator : SY/AP
 Sample : N1308-01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-1

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 01/28/2022
 Supervised By : Mahesh Dadoda 01/28/2022

Quant Time: Jan 28 06:06:08 2022
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL012422A
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:
 QLast Update : Mon Jan 24 14:12:48 2022
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	788930	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.15	114	1965516	10.00	ppbv	-0.03
55) Chlorobenzene-d5	12.06	117	1567176	10.00	ppbv	-0.03

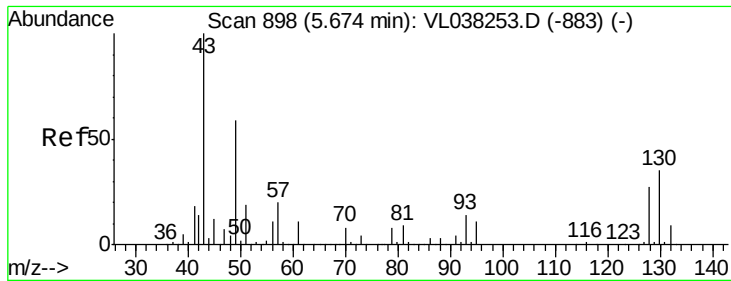
System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.39	95	1229897	10.34	ppbv	-0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.40%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.04	85	30854	0.184	ppbv #	85
3) Chlorodifluoromethane	2.98	51	43362m	0.276	ppbv	
4) Chloromethane	3.13	50	22535	0.417	ppbv	96
9) Propene	3.02	41	81677m	1.598	ppbv	
10) Heptane	8.10	43	34828m	0.265	ppbv	
11) Trichlorofluoromethane	3.94	101	25662	0.196	ppbv	99
13) Ethanol	3.59	45	2966153	540.427	ppbv	98
15) Acetone	3.84	43	917820	13.197	ppbv	98
19) Isopropyl Alcohol	3.96	45	92995m	2.137	ppbv	
20) Methylene Chloride	4.33	84	927290	22.925	ppbv	94
26) Hexane	5.67	57	130705	1.443	ppbv #	55
29) Chloroform	5.73	83	15298m	0.103	ppbv	
34) 2-Butanone	5.23	43	104855	1.631	ppbv	100
35) Carbon Tetrachloride	7.00	117	9333m	0.068	ppbv	
36) Benzene	6.87	78	84397	0.485	ppbv	95
37) 1,2-Dichloroethane	6.29	62	22388	0.225	ppbv	100
44) 2,2,4-Trimethylpentane	7.85	57	61163	0.200	ppbv #	81
52) Tetrachloroethene	11.19	164	4780m	0.080	ppbv	
53) Toluene	9.78	91	331480	1.723	ppbv	97
58) Ethyl Benzene	12.68	91	33480	0.145	ppbv	89
59) m/p-Xylene	12.94	91	84464m	0.430	ppbv	
60) o-Xylene	13.66	91	39520m	0.216	ppbv	
61) Styrene	13.50	104	22502m	0.264	ppbv	
74) 1,2,4-Trimethylbenzene	16.73	105	24721m	0.137	ppbv	

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 27 Jan 2022 19:20

Tgt Ion:

Ion Ratio

49 100

128 45.

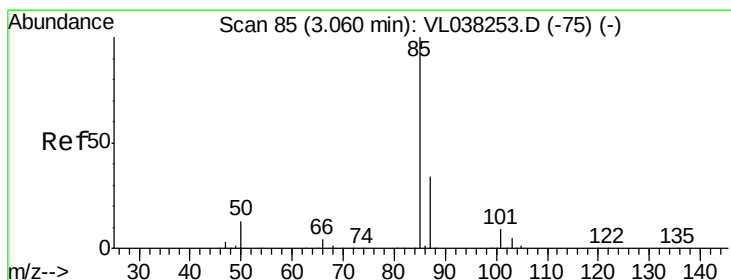
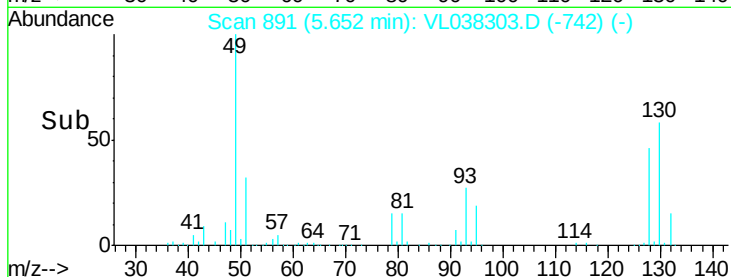
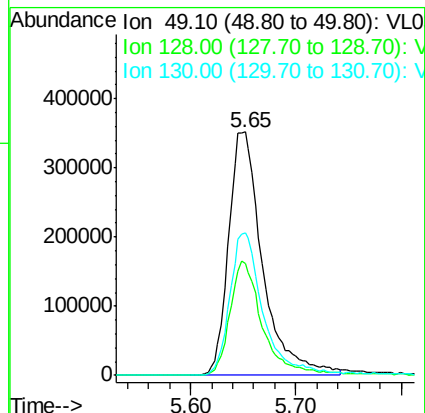
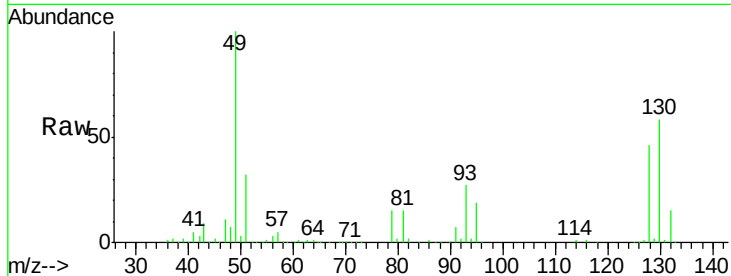
130 58.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 01/28/2022

Supervised By :Mahesh Dadoda 01/28/2022



#2

Dichlorodifluoromethane

Concen: 0.184 ppbv

RT: 3.04 min Scan# 79

Delta R.T. -0.02 min

Lab File: VL038303.D

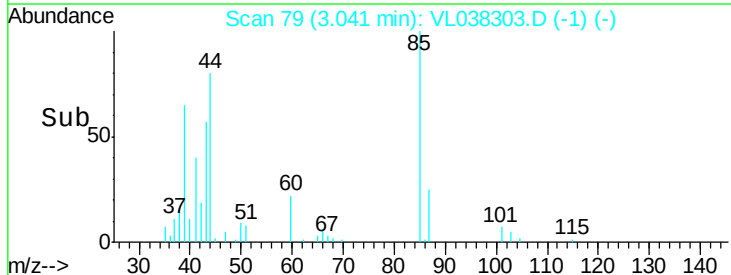
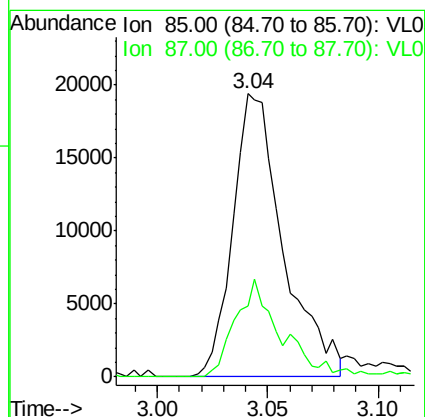
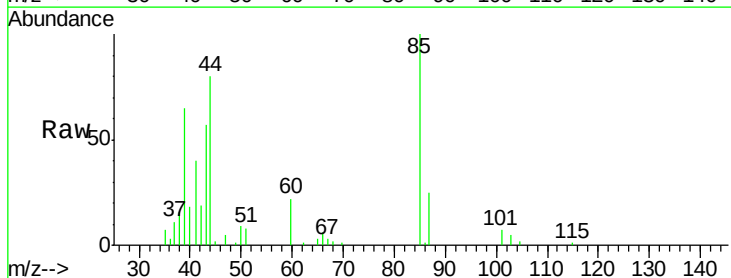
Acq: 27 Jan 2022 19:20

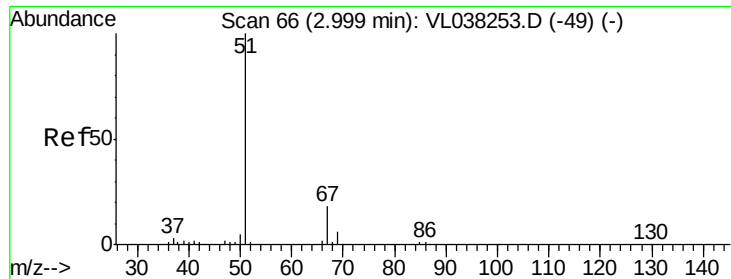
Tgt Ion: 85 Resp: 30854

Ion Ratio Lower Upper

85 100

87 25.2 27.0 40.6#





#3

Chlorodifluoromethane

Concen: 0.276 ppbv m

RT: 2.98 Instrument :

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 27 Jan 2022 19:20

Tgt Ion:

Ion Ratio

51 100

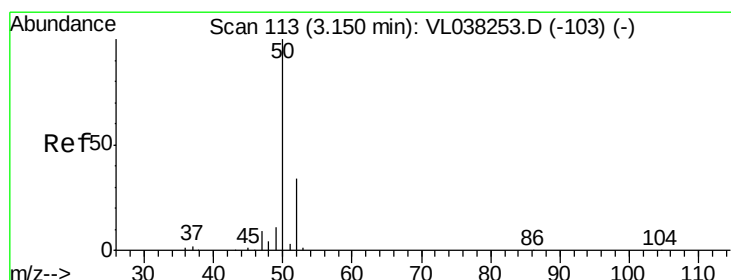
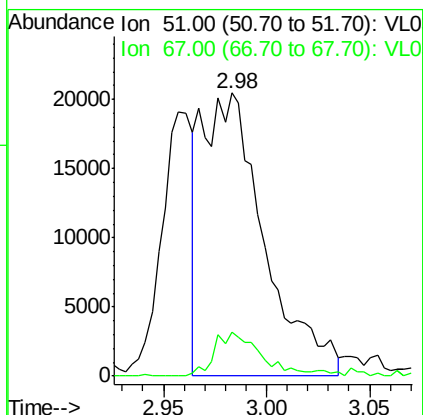
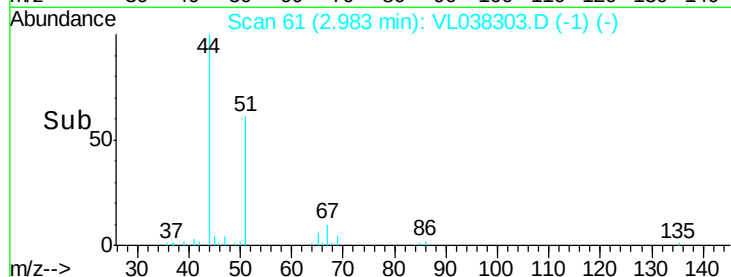
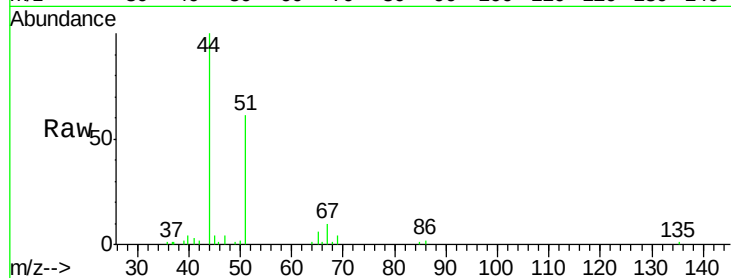
67 12.

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Reviewed By :Semsettin Yesilyurt 01/28/2022

Supervised By :Mahesh Dadoda 01/28/2022



#4

Chloromethane

Concen: 0.417 ppbv

RT: 3.13 min Scan# 108

Delta R.T. -0.02 min

Lab File: VL038303.D

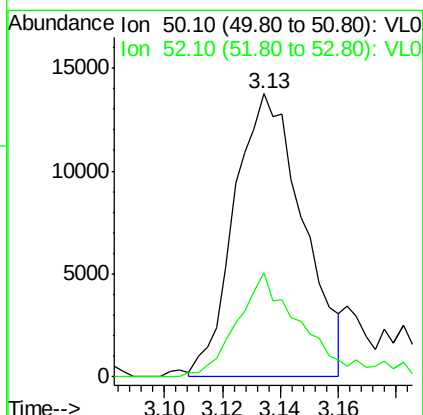
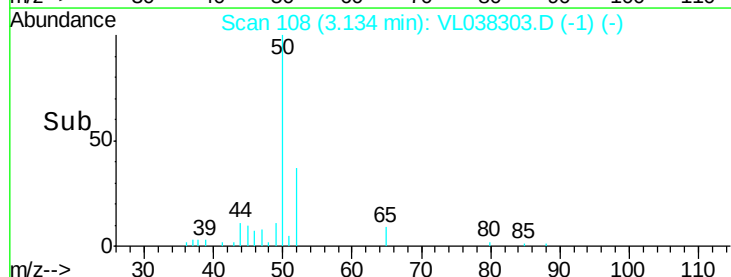
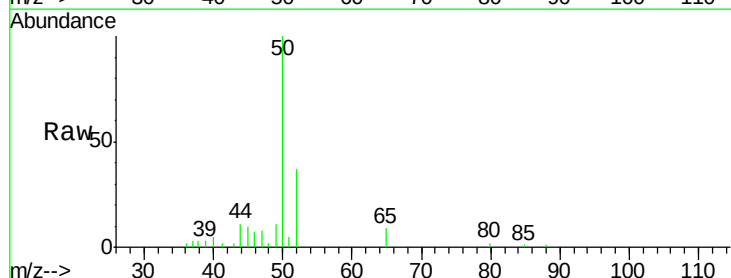
Acq: 27 Jan 2022 19:20

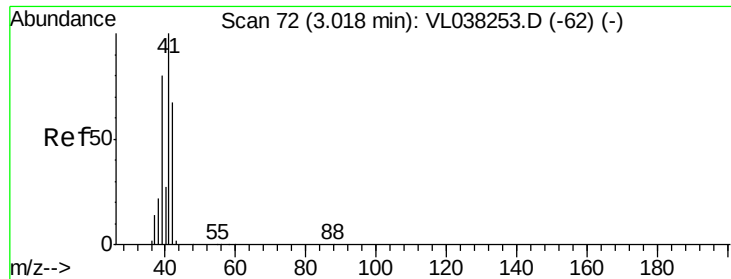
Tgt Ion: 50 Resp: 22535

Ion Ratio Lower Upper

50 100

52 36.3 27.1 40.7





#9

Propene

Concen: 1.598 ppbv m

RT: 3.02 Instrument :

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 27 Jan 2022 19:20

Tgt Ion:

Ion Ratio

41 100

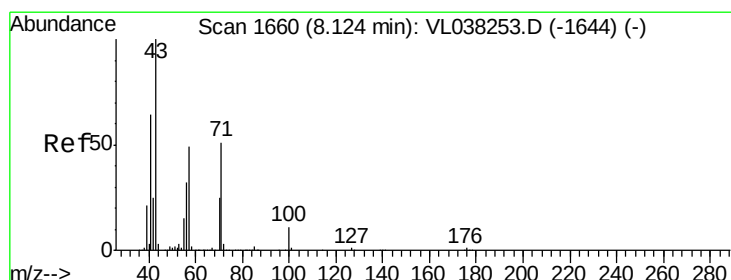
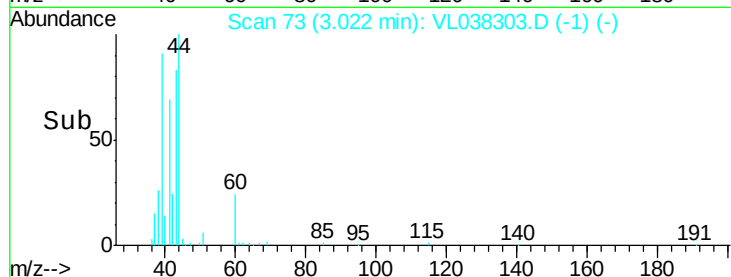
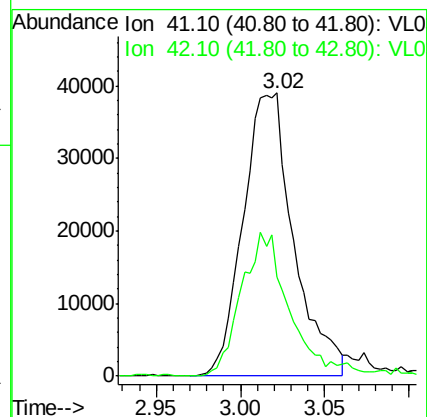
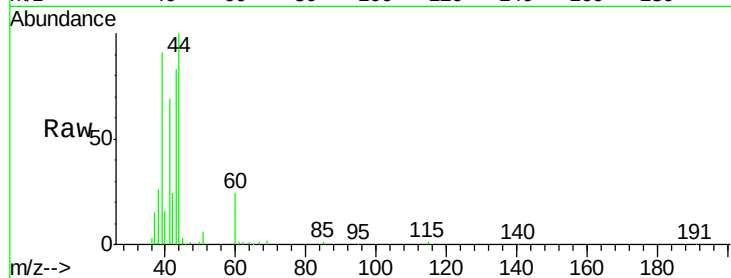
42 51.

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Reviewed By :Semsettin Yesilyurt 01/28/2022

Supervised By :Mahesh Dadoda 01/28/2022



#10

Heptane

Concen: 0.265 ppbv m

RT: 8.10 min Scan# 1653

Delta R.T. -0.02 min

Lab File: VL038303.D

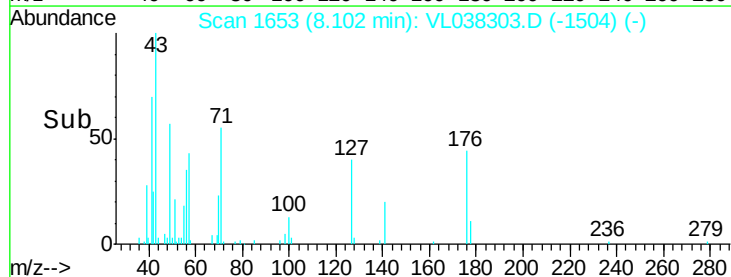
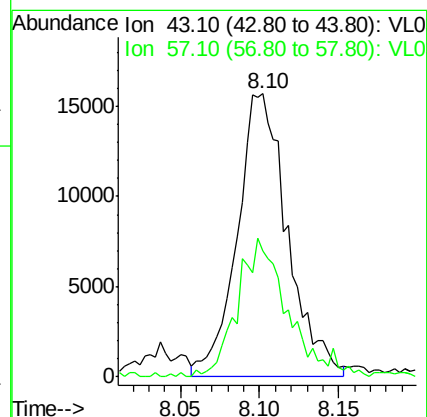
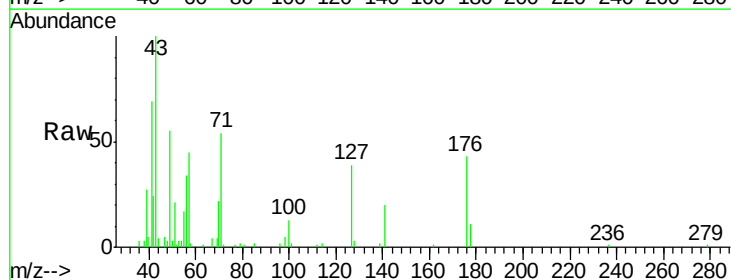
Acq: 27 Jan 2022 19:20

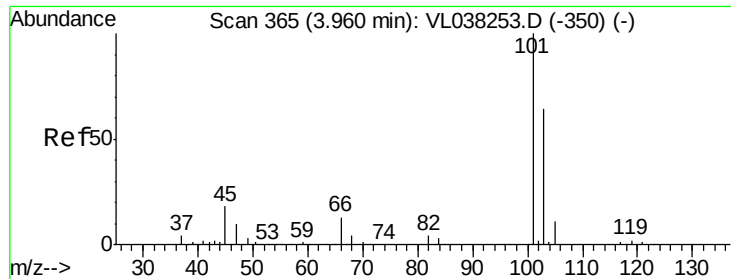
Tgt Ion: 43 Resp: 34828

Ion Ratio Lower Upper

43 100

57 50.1 39.5 59.3



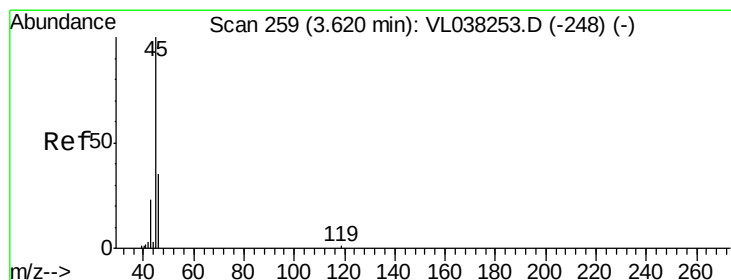
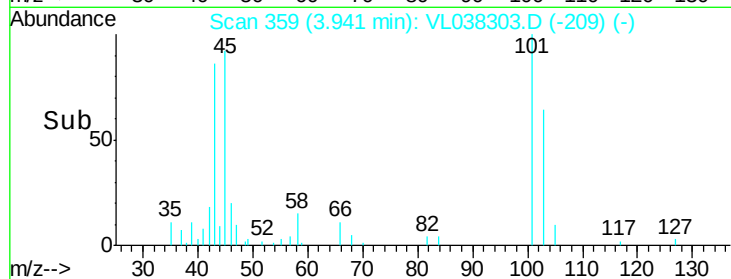
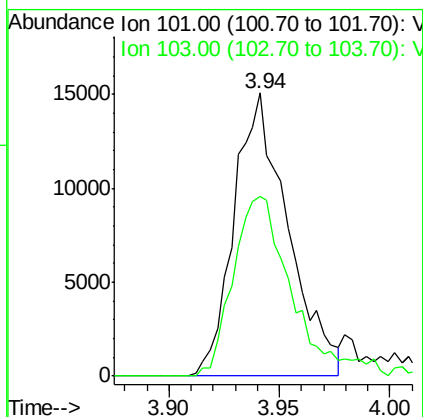
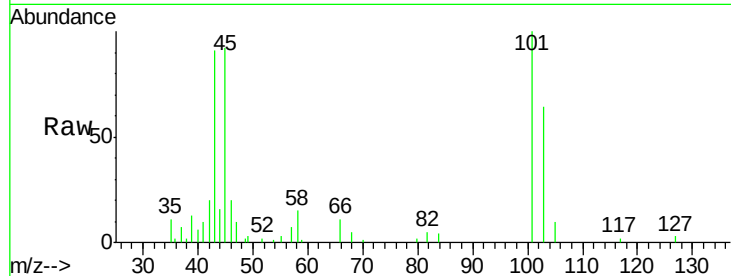


#11
 Trichlorofluoromethane
 Concen: 0.196 ppbv
 RT: 3.94
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId :
 Acq: 27 Jan 2022 19:20

Tgt Ion: 101
 Ion Ratio: 100
 103 63.

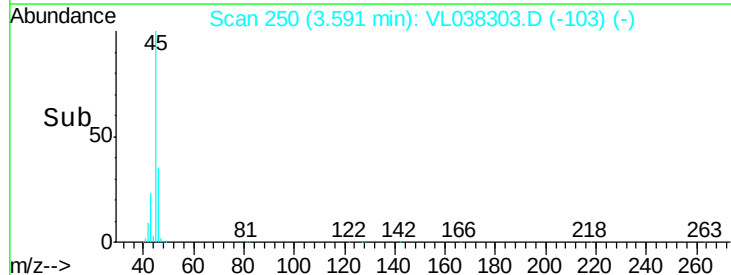
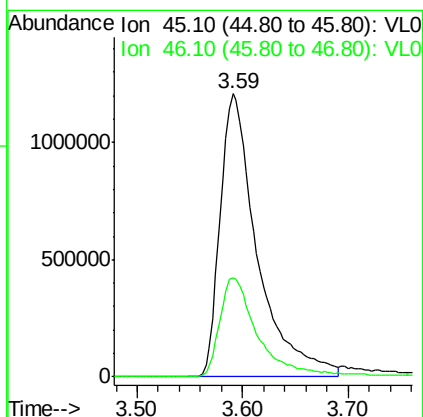
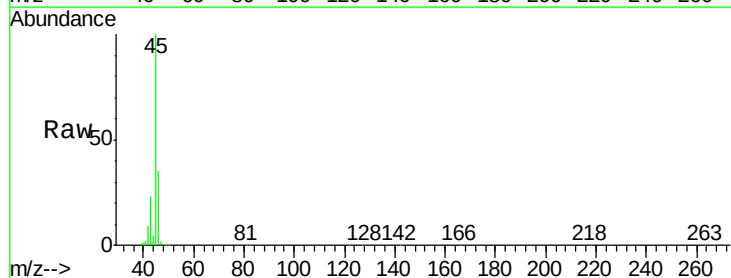
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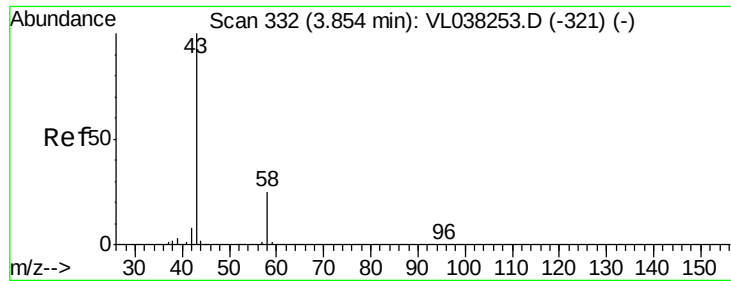
Reviewed By : Semsettin Yesilyurt 01/28/2022
 Supervised By : Mahesh Dadoda 01/28/2022



#13
 Ethanol
 Concen: 540.427 ppbv
 RT: 3.59 min Scan# 250
 Delta R.T. -0.03 min
 Lab File: VL038303.D
 Acq: 27 Jan 2022 19:20

Tgt Ion: 45 Resp: 2966153
 Ion Ratio Lower Upper
 45 100
 46 37.1 15.4 61.6





#15

Acetone

Concen: 13.197 ppbv

RT: 3.84 Instrument :

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 27 Jan 2022 19:20

Tgt Ion:

Ion Ratio

43 100

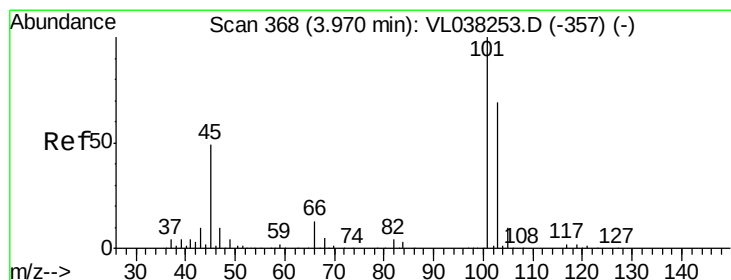
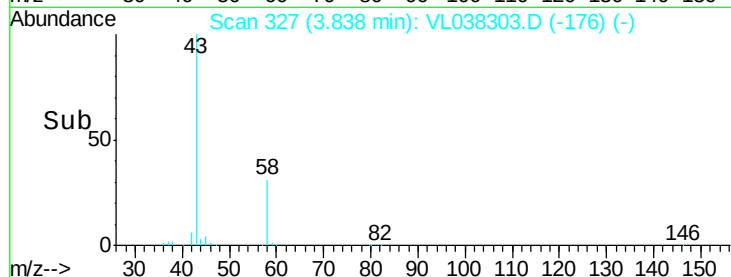
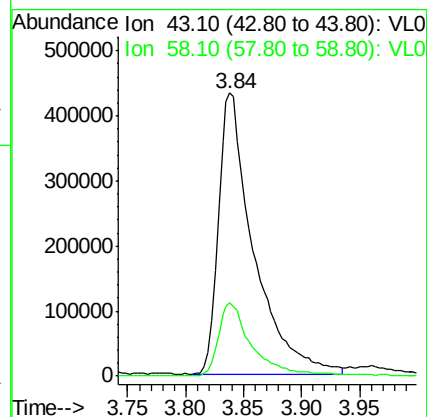
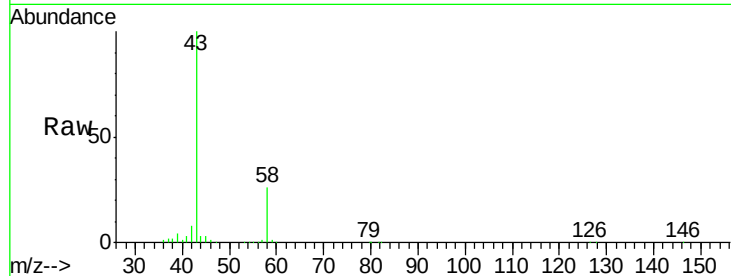
58 25.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 01/28/2022

Supervised By :Mahesh Dadoda 01/28/2022



#19

Isopropyl Alcohol

Concen: 2.137 ppbv m

RT: 3.96 min Scan# 364

Delta R.T. -0.01 min

Lab File: VL038303.D

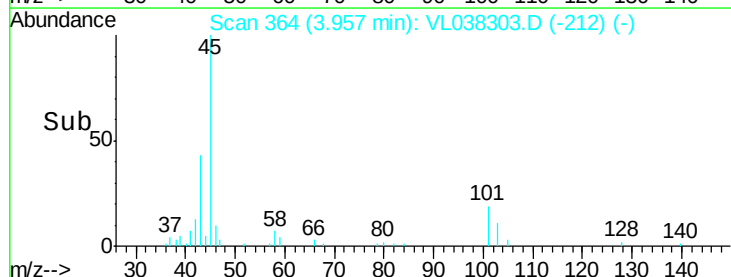
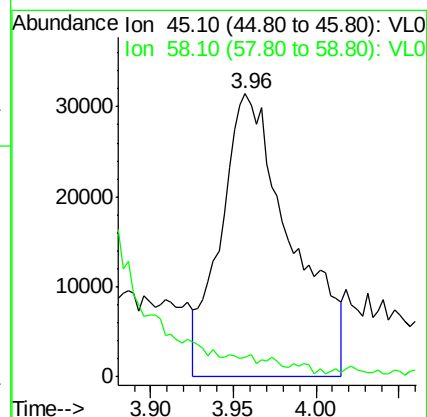
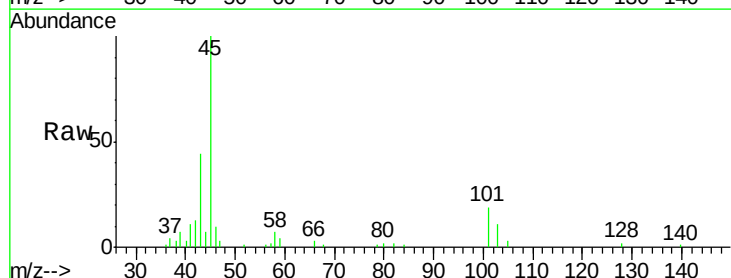
Acq: 27 Jan 2022 19:20

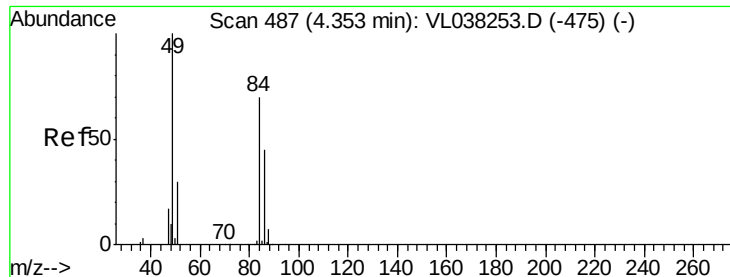
Tgt Ion: 45 Resp: 92995

Ion Ratio Lower Upper

45 100

58 0.0 2.3 3.5#





#20

Methylene Chloride

Concen: 22.925 ppbv

RT: 4.33 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

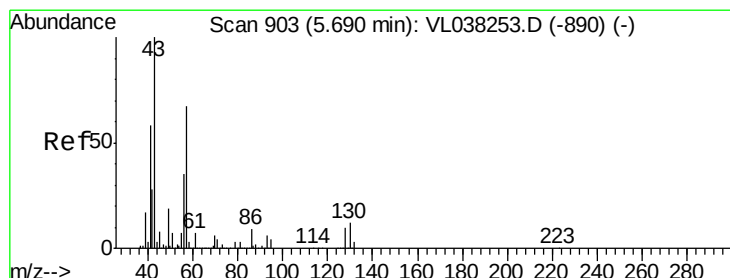
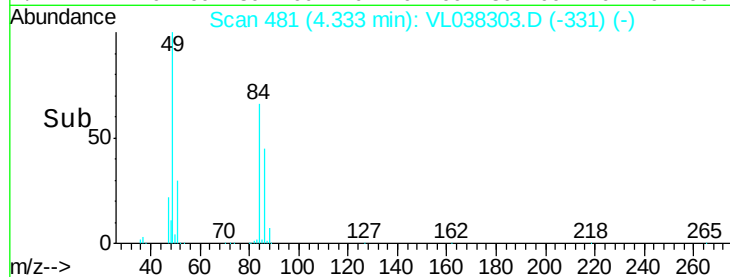
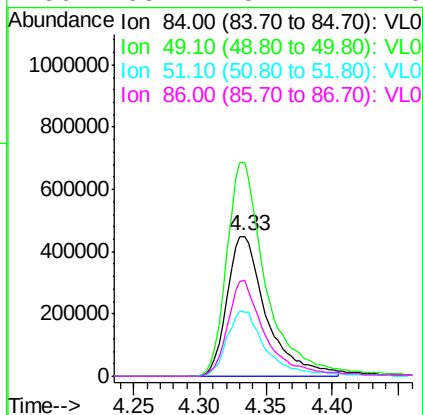
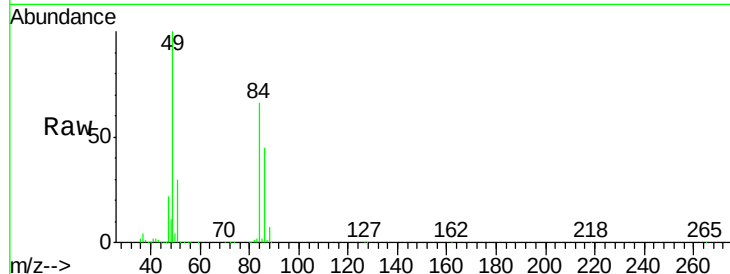
Acq: 27 Jan 2022 19:20

Tgt Ion: 84.00 (83.70 to 84.70): VL0

Ion	Ratio
84	100
49	152.
51	46.
86	68.2
	51.4
	77.0

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Reviewed By :Semsettin Yesilyurt 01/28/2022
Supervised By :Mahesh Dadoda 01/28/2022



#26

Hexane

Concen: 1.443 ppbv

RT: 5.67 min Scan# 897

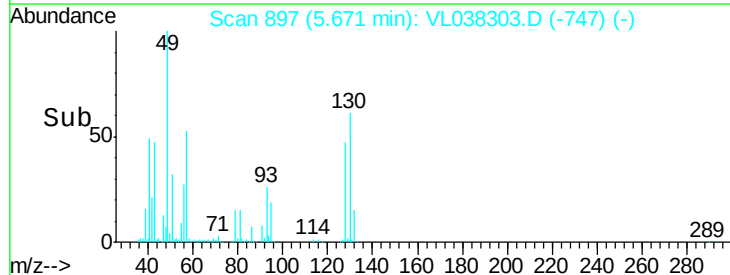
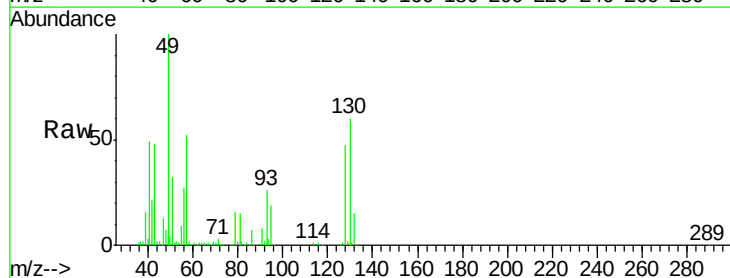
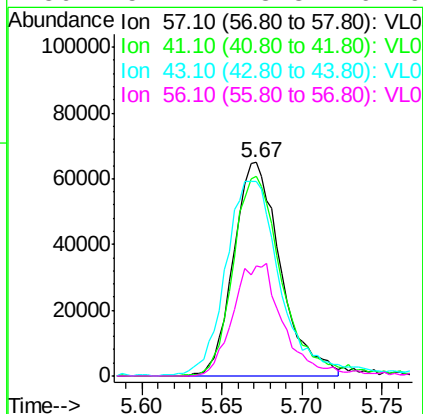
Delta R.T. -0.02 min

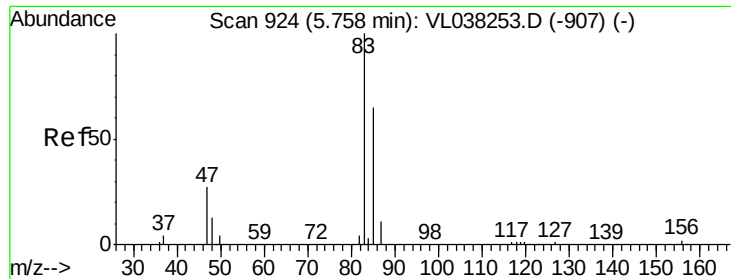
Lab File: VL038303.D

Acq: 27 Jan 2022 19:20

Tgt Ion: 57 Resp: 130705

Ion	Ratio	Lower	Upper
57	100		
41	98.9	72.8	109.2
43	107.9	177.0	265.6#
56	57.1	43.3	64.9



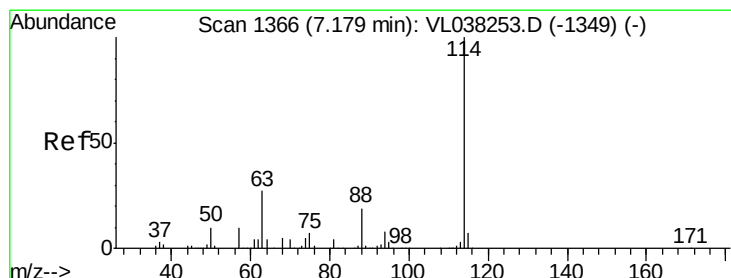
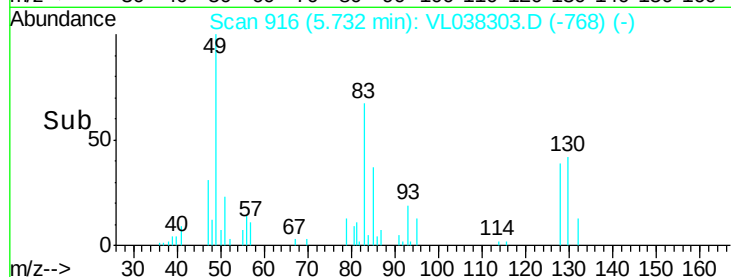
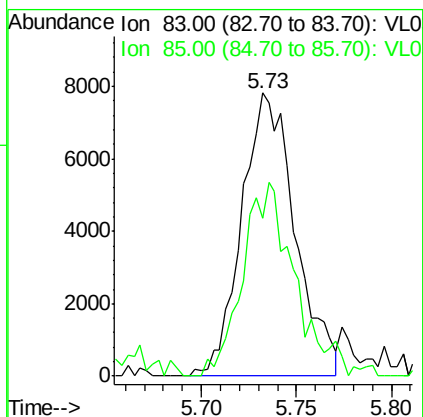
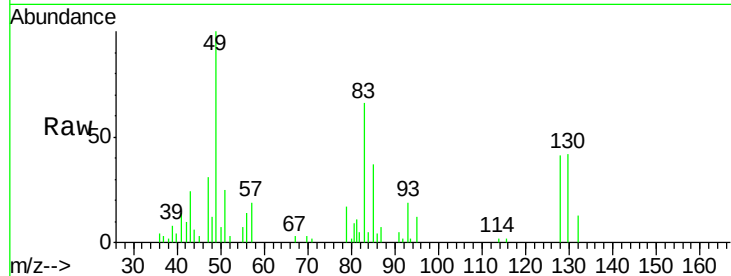


#29
Chloroform
Concen: 0.103 ppbv m
RT: 5.73
Instrument: MSVOA_L
Delta R.T.:
Lab File: ClientSampleId :
Acq: 27 Jan 2022 19:20

Tgt Ion:
Ion Ratio
83 100
85 55.

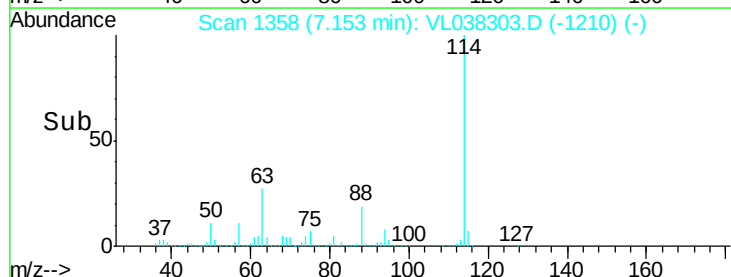
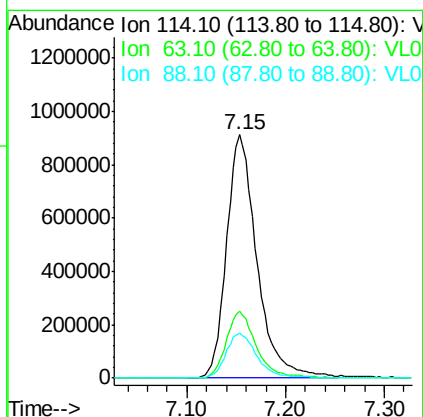
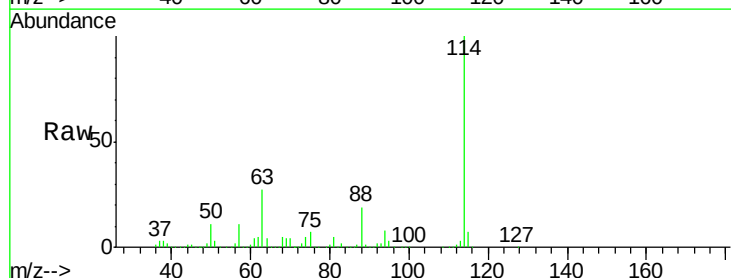
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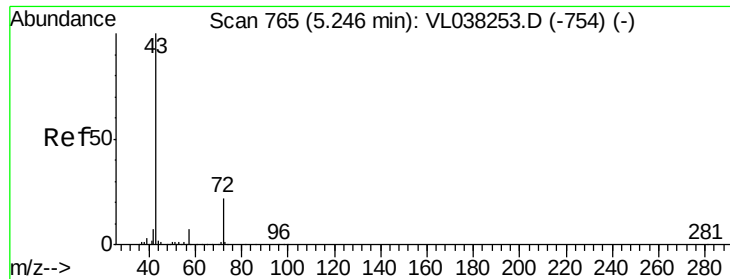
Reviewed By :Semsettin Yesilyurt 01/28/2022
Supervised By :Mahesh Dadoda 01/28/2022



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.15 min Scan# 1358
Delta R.T. -0.03 min
Lab File: VL038303.D
Acq: 27 Jan 2022 19:20

Tgt Ion:114 Resp: 1965516
Ion Ratio Lower Upper
114 100
63 27.3 22.0 33.0
88 19.2 15.0 22.6





#34

2-Butanone

Concen: 1.631 ppbv

RT: 5.23 Instrument :

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 27 Jan 2022 19:20

Tgt Ion:

Ion Ratio

43 100

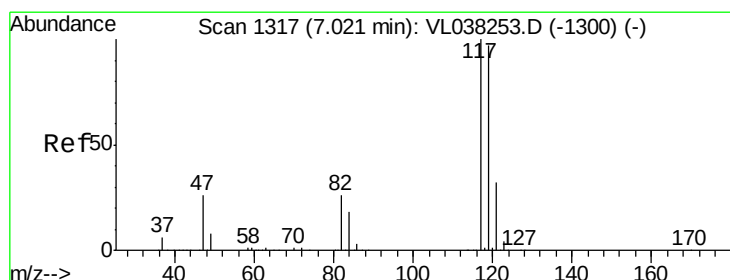
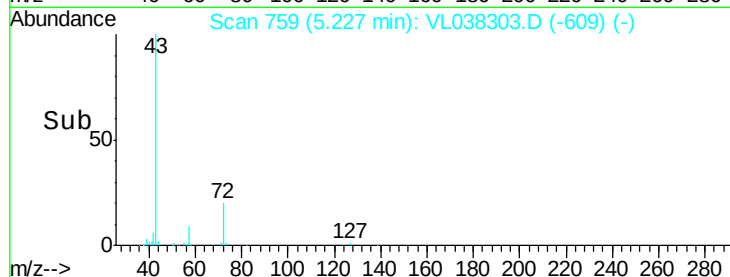
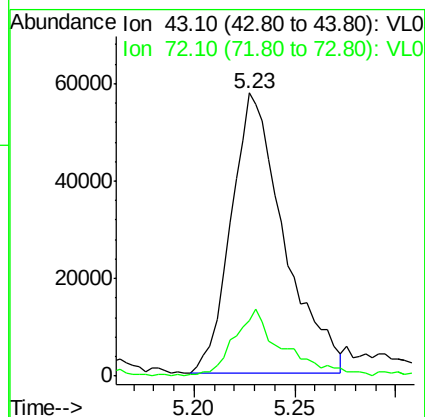
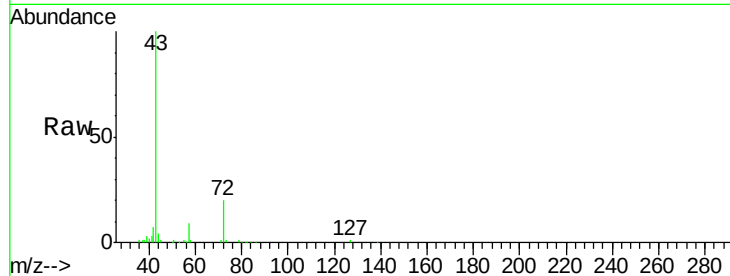
72 22.

Manual Integrations

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Supervised By :Mahesh Dadoda 01/28/2022



#35

Carbon Tetrachloride

Concen: 0.068 ppbv m

RT: 7.00 min Scan# 1309

Delta R.T. -0.03 min

Lab File: VL038303.D

Acq: 27 Jan 2022 19:20

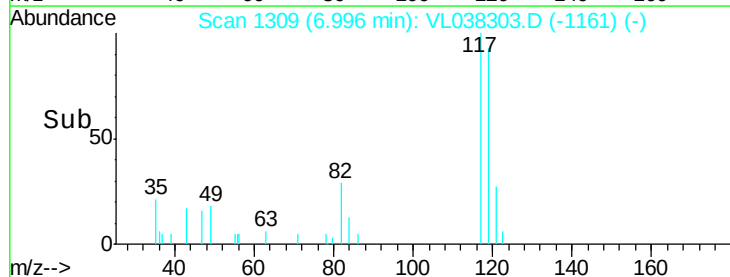
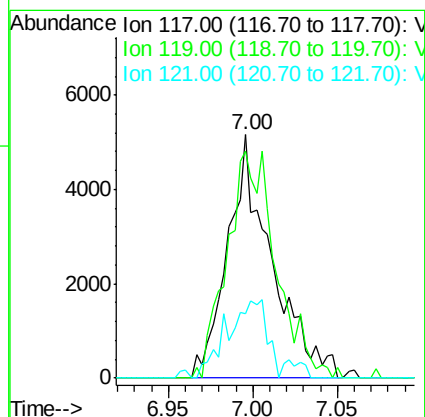
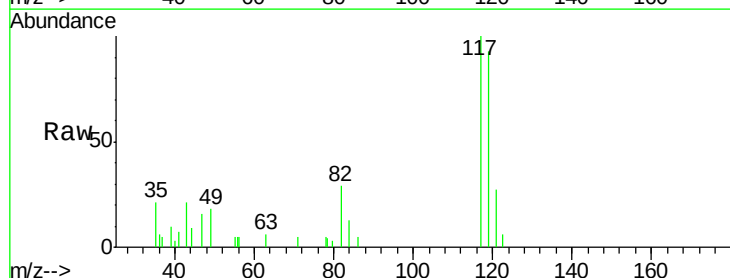
Tgt Ion:117 Resp: 9333

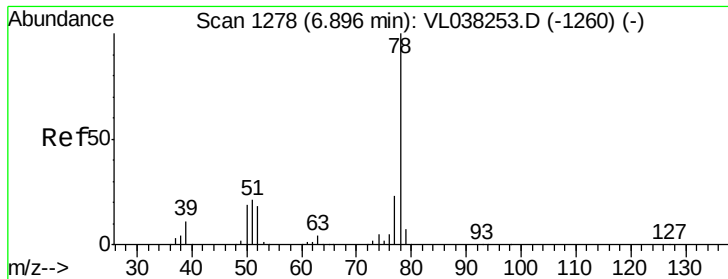
Ion Ratio Lower Upper

117 100

119 93.0 77.9 116.9

121 26.6 25.4 38.2



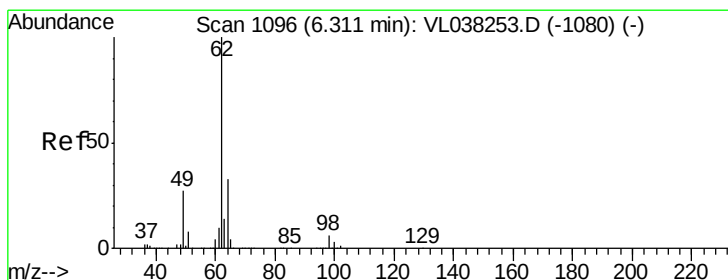
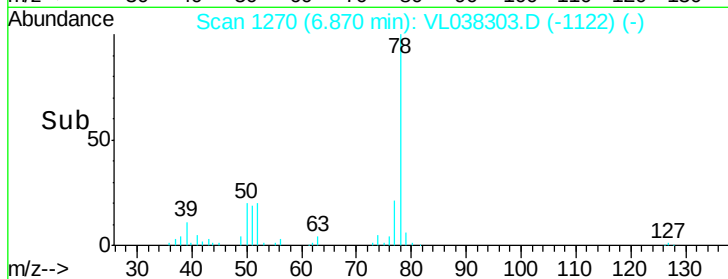
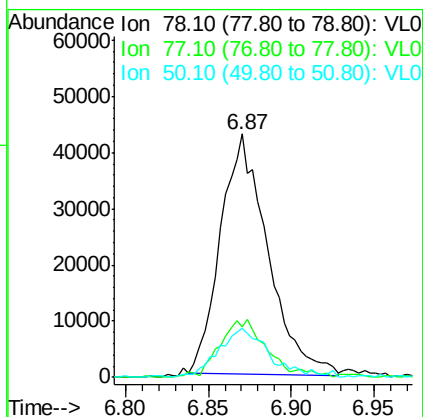
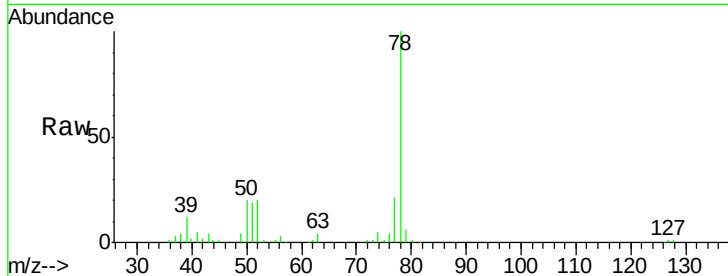


#36
Benzene
Concen: 0.485 ppbv
RT: 6.87
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 27 Jan 2022 19:20

Tgt Ion:
Ion Ratio
78 100
77 19.
50 20.

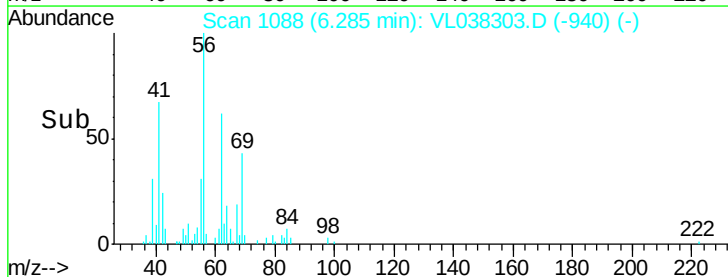
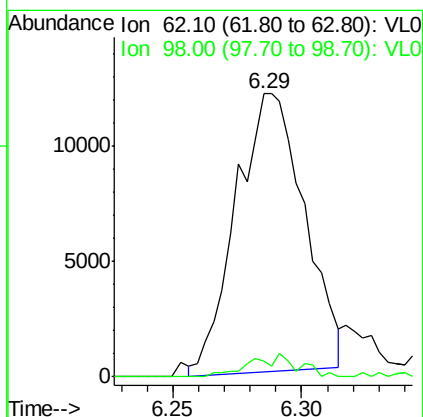
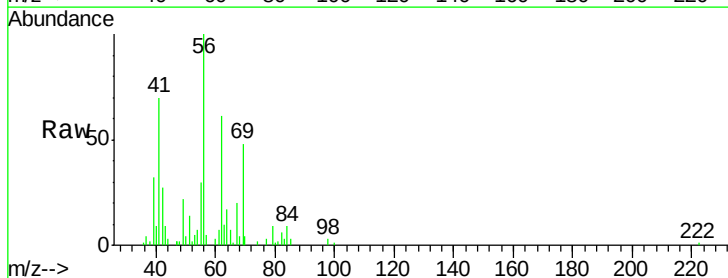
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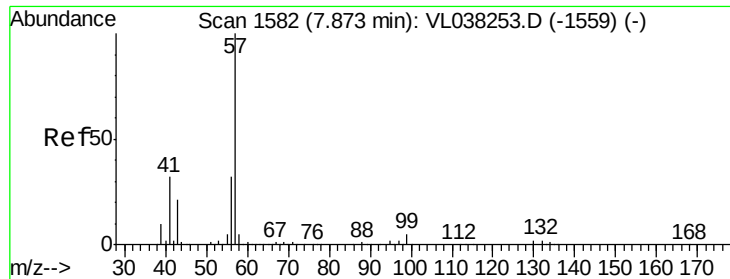
Reviewed By :Semsettin Yesilyurt 01/28/2022
Supervised By :Mahesh Dadoda 01/28/2022



#37
1,2-Dichloroethane
Concen: 0.225 ppbv
RT: 6.29 min Scan# 1088
Delta R.T. -0.03 min
Lab File: VL038303.D
Acq: 27 Jan 2022 19:20

Tgt Ion: 62 Resp: 22388
Ion Ratio Lower Upper
62 100
98 5.7 4.5 6.7





#44

2,2,4-Trimethylpentane

Concen: 0.200 ppbv

RT: 7.85 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 27 Jan 2022 19:20

Tgt Ion:

Ion Ratio

57 100

41 46.

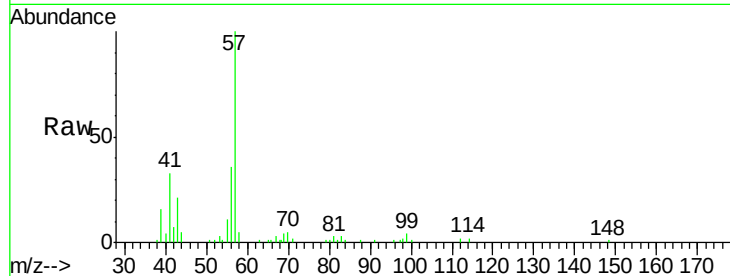
56 39.

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Reviewed By :Semsettin Yesilyurt 01/28/2022

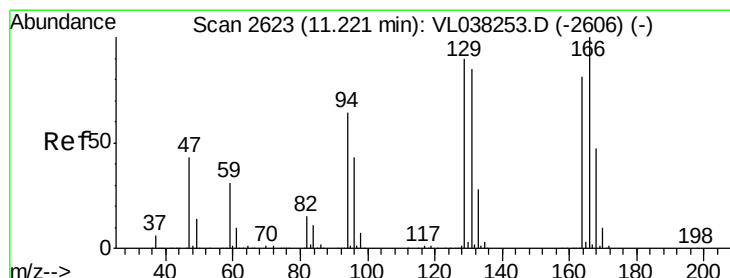
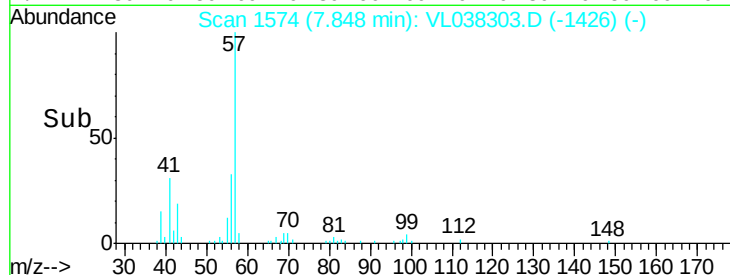
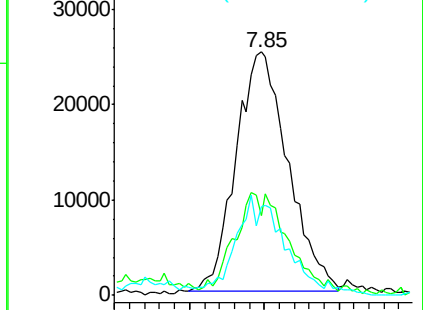
Supervised By :Mahesh Dadoda 01/28/2022



Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 56.10 (55.80 to 56.80): VL0



#52

Tetrachloroethene

Concen: 0.080 ppbv m

RT: 11.19 min Scan# 2615

Delta R.T. -0.03 min

Lab File: VL038303.D

Acq: 27 Jan 2022 19:20

Tgt Ion:164 Resp: 4780

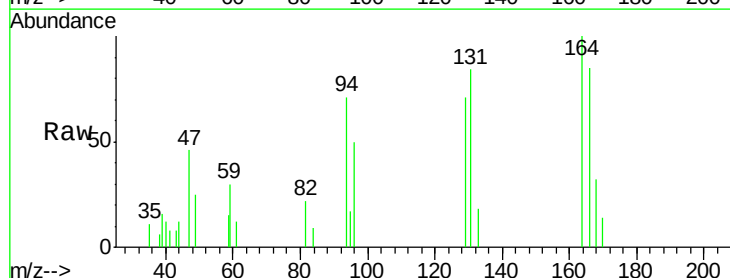
Ion Ratio Lower Upper

164 100

166 85.3 98.8 148.2#

129 70.6 89.2 133.8#

131 84.1 83.6 125.4

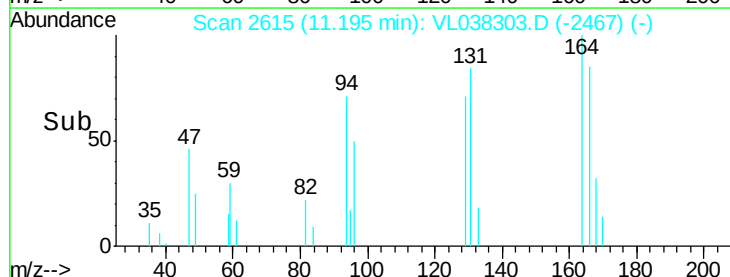
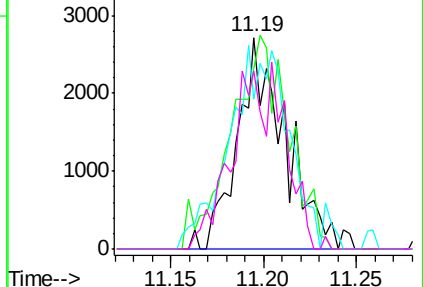


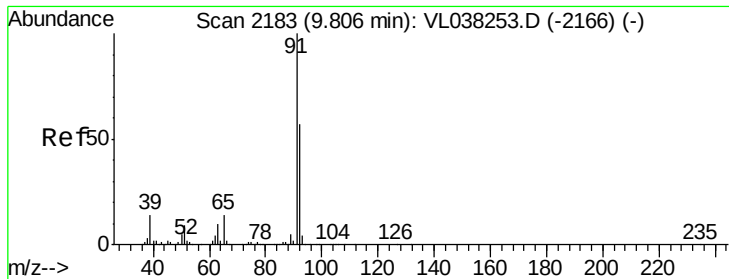
Abundance Ion 163.90 (163.60 to 164.60): V

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



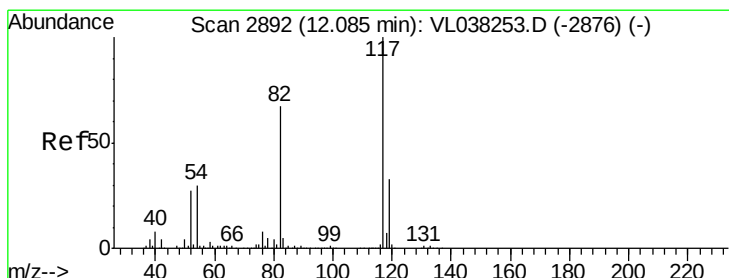
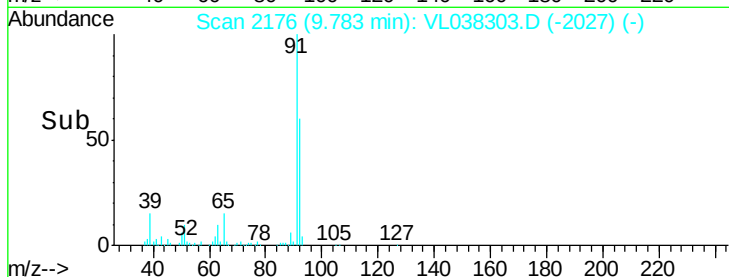
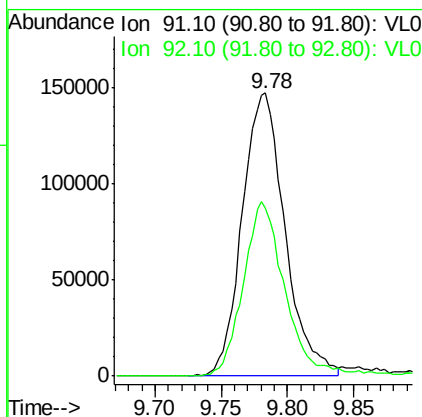
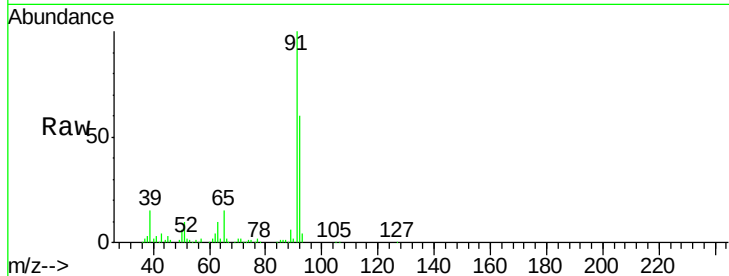


#53
Toluene
Concen: 1.723 ppbv
RT: 9.78
Instrument : MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 27 Jan 2022 19:20

Tgt Ion:
Ion Ratio
91 100
92 61.

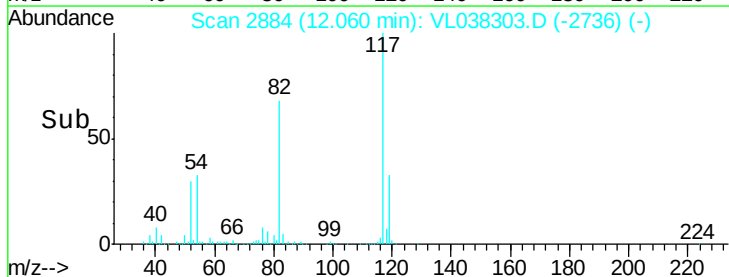
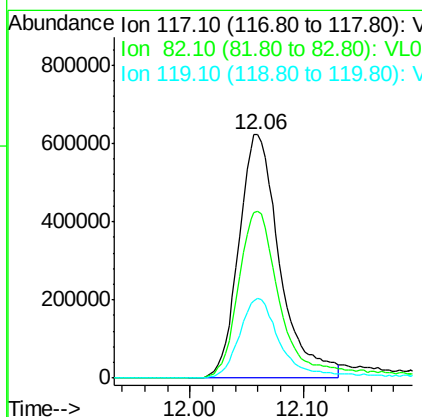
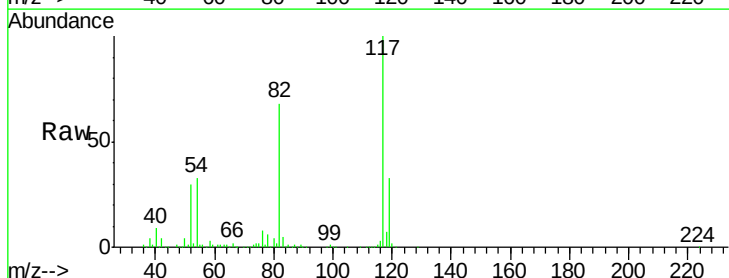
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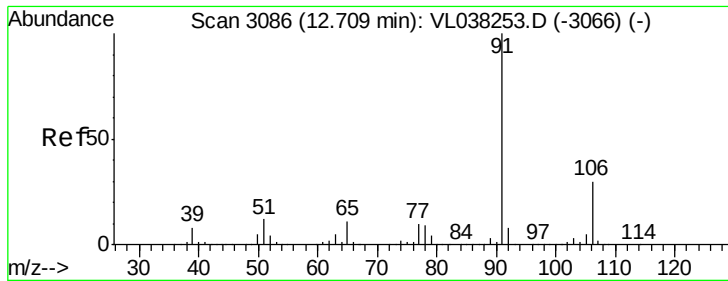
Reviewed By :Semsettin Yesilyurt 01/28/2022
Supervised By :Mahesh Dadoda 01/28/2022



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.06 min Scan# 2884
Delta R.T. -0.03 min
Lab File: VL038303.D
Acq: 27 Jan 2022 19:20

Tgt Ion:117 Resp: 1567176
Ion Ratio Lower Upper
117 100
82 73.7 54.4 81.6
119 34.5 45.9 68.9#





#58

Ethyl Benzene

Concen: 0.145 ppbv

RT: 12.68

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 27 Jan 2022 19:20

Tgt Ion:

Ion Ratio

91 100

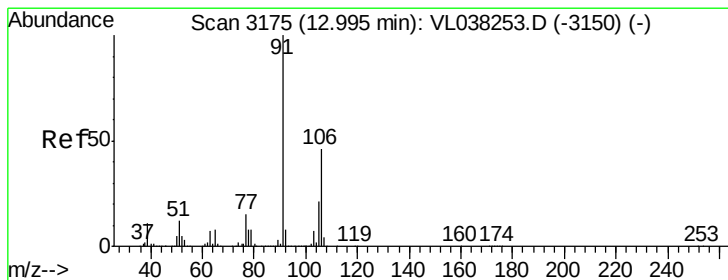
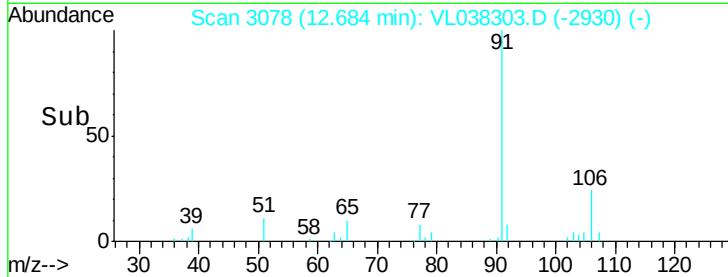
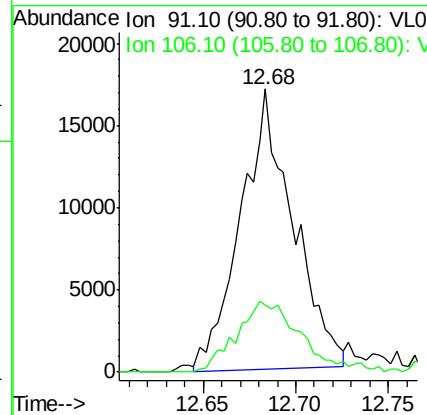
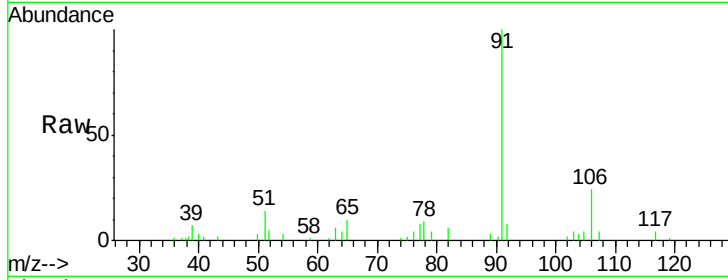
106 24.

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Reviewed By :Semsettin Yesilyurt 01/28/2022

Supervised By :Mahesh Dadoda 01/28/2022



#59

m/p-Xylene

Concen: 0.430 ppbv m

RT: 12.94 min Scan# 3158

Delta R.T. -0.05 min

Lab File: VL038303.D

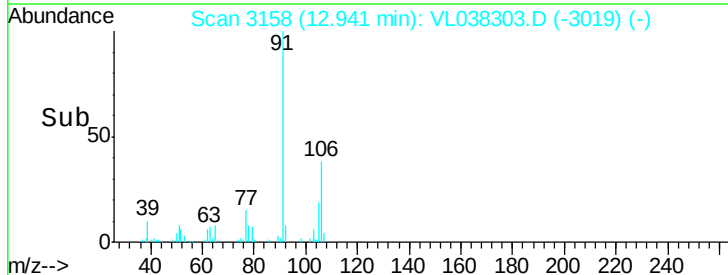
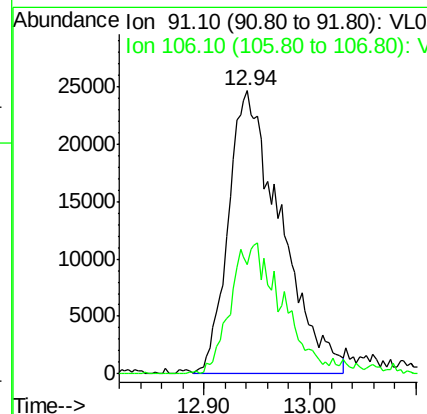
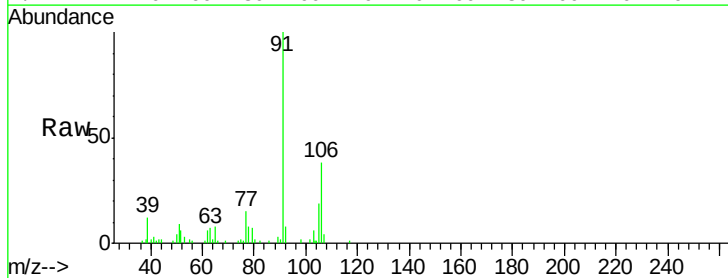
Acq: 27 Jan 2022 19:20

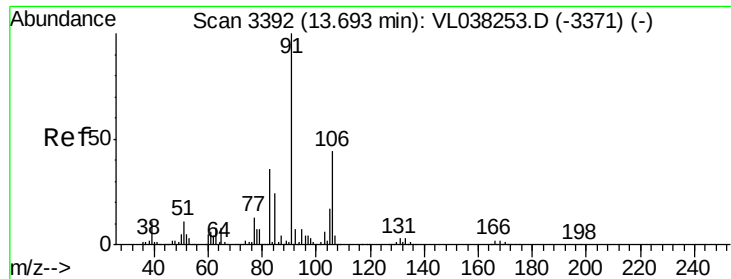
Tgt Ion: 91 Resp: 84464

Ion Ratio Lower Upper

91 100

106 0.0 34.8 52.2#



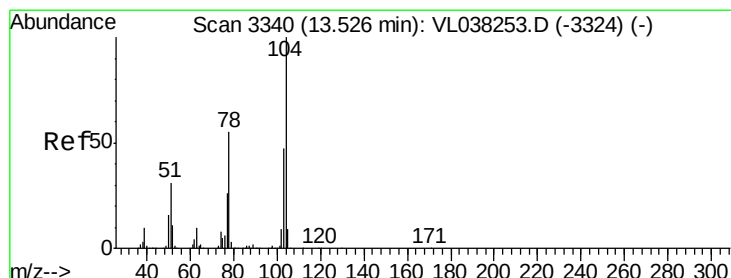
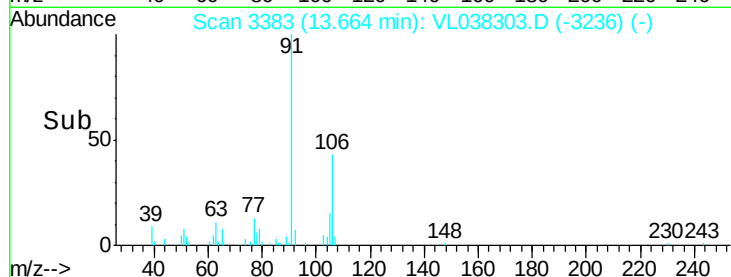
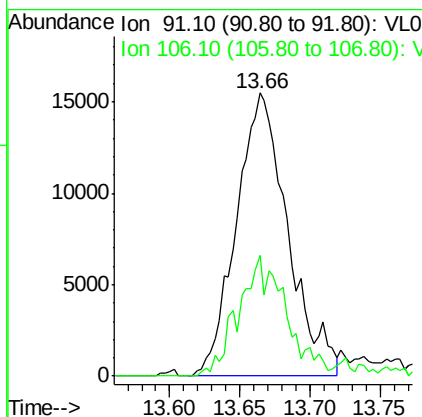
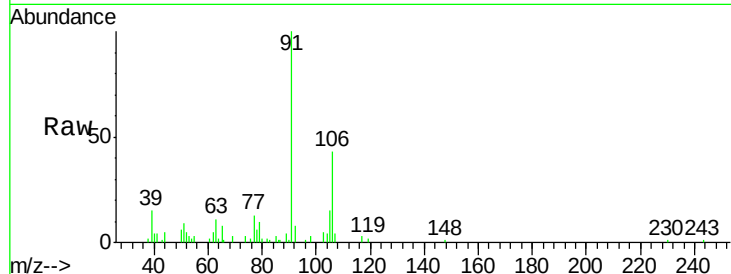


#60
o-Xylene
Concen: 0.216 ppbv m
RT: 13.66
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 27 Jan 2022 19:20

Tgt Ion:
Ion Ratio
91 100
106 39.

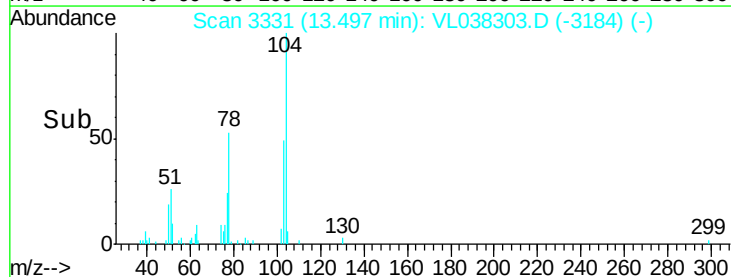
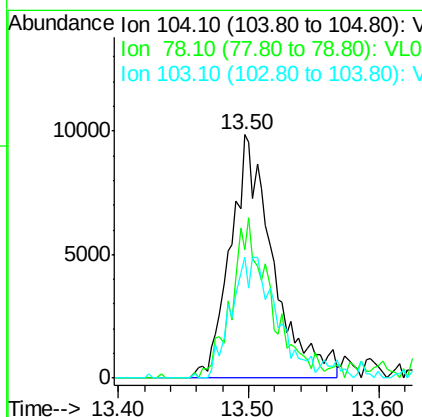
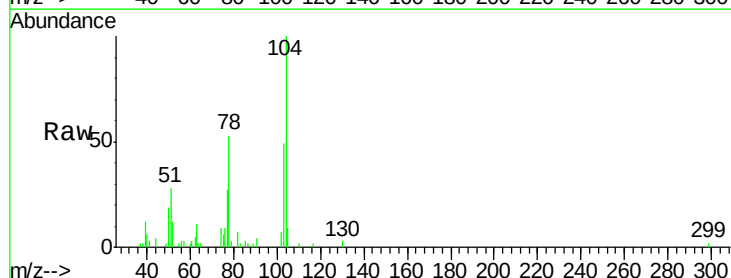
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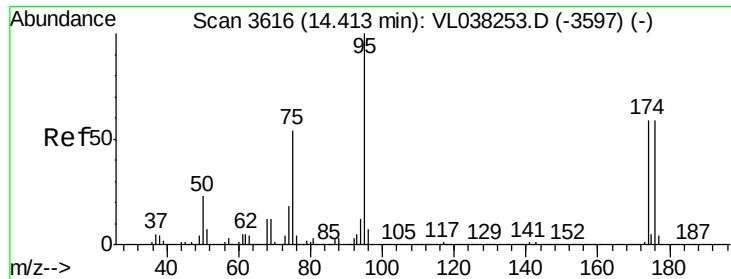
Reviewed By :Semsettin Yesilyurt 01/28/2022
Supervised By :Mahesh Dadoda 01/28/2022



#61
Styrene
Concen: 0.264 ppbv m
RT: 13.50 min Scan# 3331
Delta R.T. -0.03 min
Lab File: VL038303.D
Acq: 27 Jan 2022 19:20

Tgt Ion:104 Resp: 22502
Ion Ratio Lower Upper
104 100
78 60.1 44.2 66.4
103 0.0 38.2 57.4#



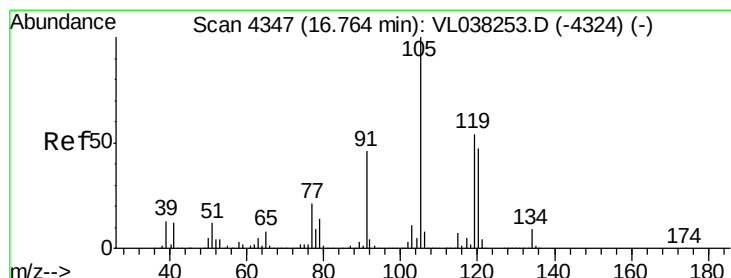
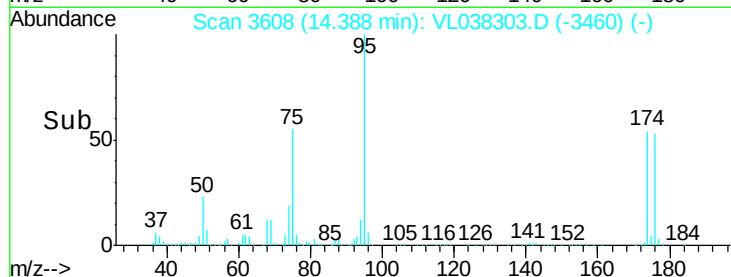
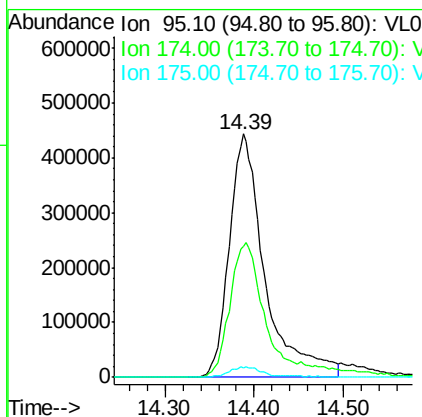
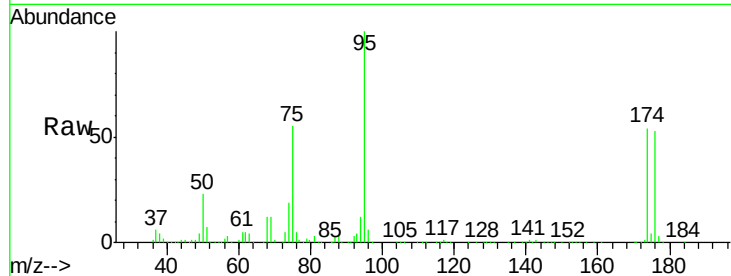


#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.340 ppbv
 RT: 14.39 min
 Delta R.T.: MSVOA_L
 Lab File: ClientSampleId :
 Acq: 27 Jan 2022 19:20

Tgt Ion:
 Ion Ratio
 95 100
 174 60.
 175 4.

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 01/28/2022
 Supervised By :Mahesh Dadoda 01/28/2022



#74
 1,2,4-Trimethylbenzene
 Concen: 0.137 ppbv m
 RT: 16.73 min Scan# 4336
 Delta R.T. -0.04 min
 Lab File: VL038303.D
 Acq: 27 Jan 2022 19:20

Tgt Ion:105 Resp: 24721
 Ion Ratio Lower Upper
 105 100
 120 31.1 37.2 55.8#
 91 15.3 36.6 55.0#
 77 18.6 16.9 25.3

