

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL020122\
 Data File : VL038323.D
 Acq On : 1 Feb 2022 16:12
 Operator : SY/AP
 Sample : N1341-01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SVP-1

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 02/07/2022
 Supervised By : Mahesh Dadoda 02/07/2022

Quant Time: Feb 03 16:56:20 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	5.64	49	755430	10.00	ppbv	-0.04
33) 1,4-Difluorobenzene	7.14	114	2353026	10.00	ppbv	-0.04
55) Chlorobenzene-d5	12.04	117	2009866	10.00	ppbv	-0.05

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.37	95	1630571	10.69	ppbv	-0.05
Spiked Amount	10.000	Range	65 - 135	Recovery	=	106.90%

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.03	85	17797	0.111	ppbv	91
9) Propene	3.01	41	4215461m	86.109	ppbv	
10) Heptane	8.08	43	104670m	0.831	ppbv	
11) Trichlorofluoromethane	3.93	101	28312	0.226	ppbv	95
13) Ethanol	3.58	45	192538	36.636	ppbv	99
15) Acetone	3.82	43	4784640	71.849	ppbv	97
17) tert-Butyl alcohol	4.27	59	239346	3.275	ppbv	98
19) Isopropyl Alcohol	3.94	45	103693	2.489	ppbv #	91
20) Methylene Chloride	4.32	84	52812	1.364	ppbv	95
26) Hexane	5.66	57	3292910	37.971	ppbv #	42
27) Carbon Disulfide	4.53	76	38946	0.384	ppbv #	91
30) Cyclohexane	7.10	84	33232m	0.440	ppbv	
32) 1,1,1-Trichloroethane	6.47	97	14351m	0.102	ppbv	
34) 2-Butanone	5.21	43	220503	2.866	ppbv	95
36) Benzene	6.85	78	188084	0.904	ppbv	97
41) Tetrahydrofuran	6.04	42	11857m	0.229	ppbv	
52) Tetrachloroethene	11.18	164	8203m	0.114	ppbv	
53) Toluene	9.76	91	353608	1.535	ppbv	98
58) Ethyl Benzene	12.66	91	84501	0.286	ppbv	99
59) m/p-Xylene	12.92	91	251030m	0.996	ppbv	
60) o-Xylene	13.64	91	96597m	0.412	ppbv	
61) Styrene	13.47	104	16823m	0.154	ppbv	
69) p-Isopropyltoluene	17.61	119	646685	2.360	ppbv	99
73) 1,3,5-Trimethylbenzene	15.96	105	26953m	0.122	ppbv	
74) 1,2,4-Trimethylbenzene	16.72	105	92912m	0.400	ppbv	
79) Naphthalene	22.14	128	22153m	0.204	ppbv	

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

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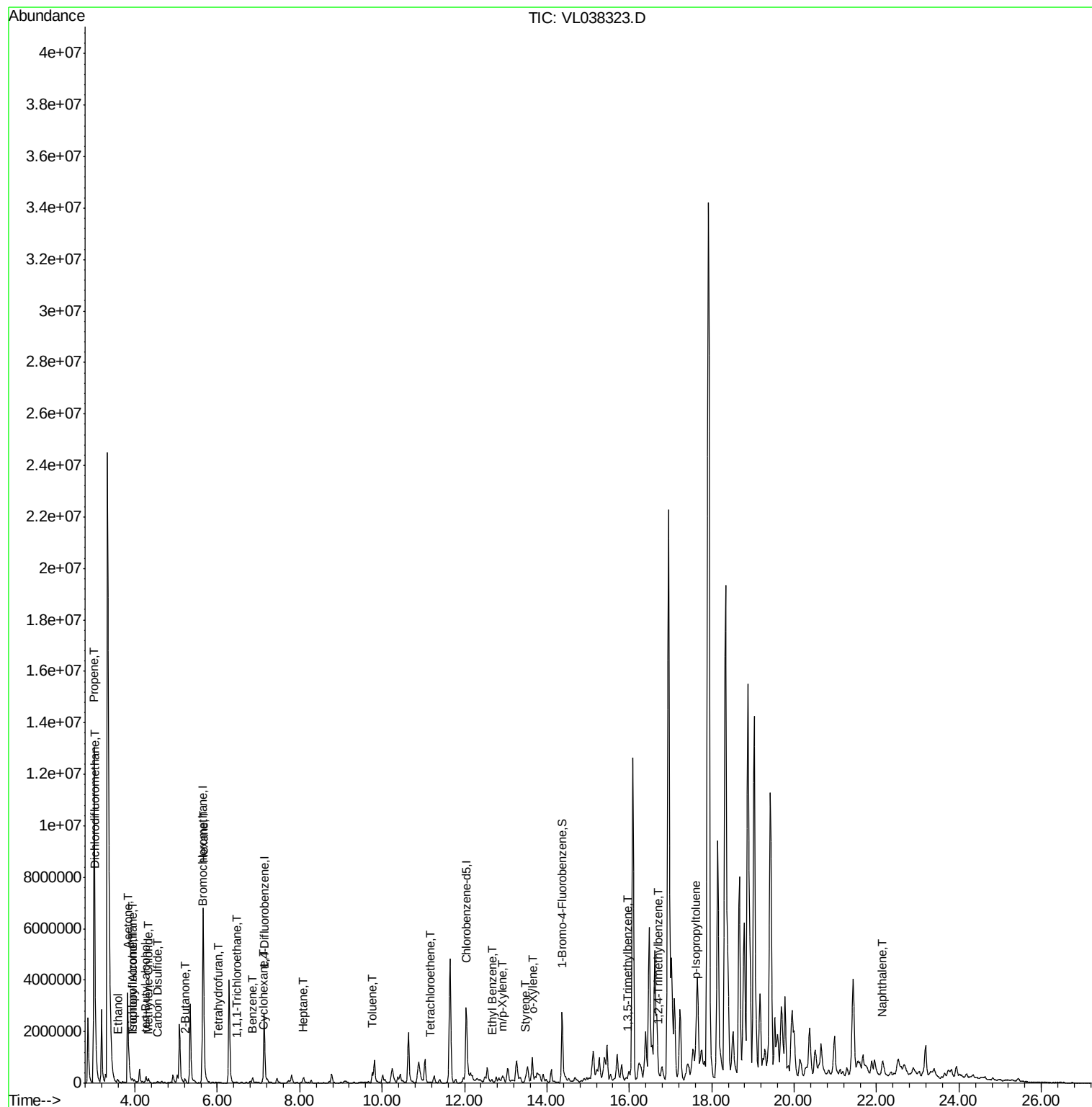
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL012422

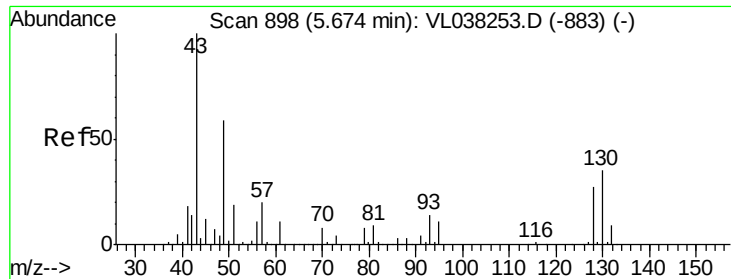
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:

QLast Update : Mon Jan 24 14:12:48 2022

Response via : Initial Calibration

Reviewed By :Semsettin Yesilyurt 02/07/2022
Supervised By :Mahesh Dadoda 02/07/2022





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.64 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 1 Feb 2022 16:12 SVP-1

Tgt Ion:

Ion Ratio

49 100

128 51.

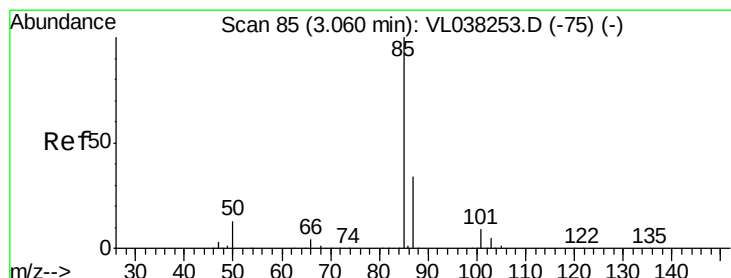
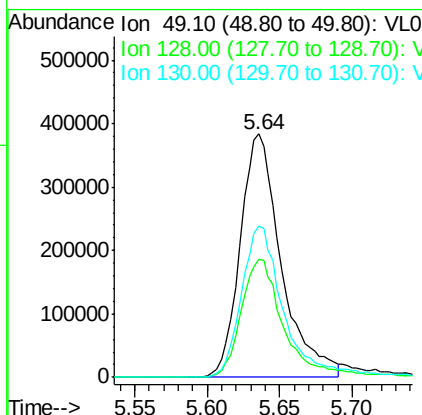
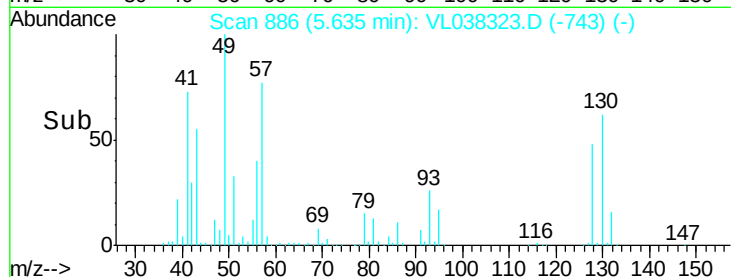
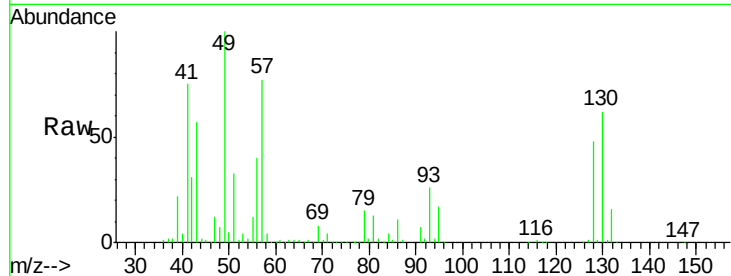
130 65.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 02/07/2022

Supervised By :Mahesh Dadoda 02/07/2022



#2

Dichlorodifluoromethane

Concen: 0.111 ppbv

RT: 3.03 min Scan# 77

Delta R.T. -0.03 min

Lab File: VL038323.D

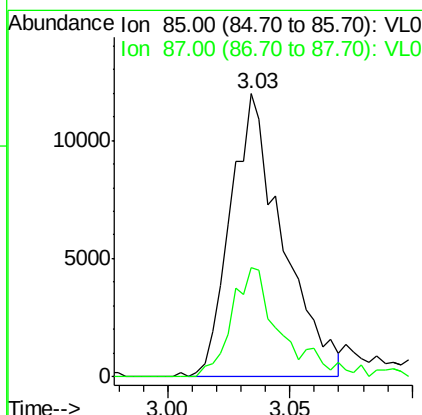
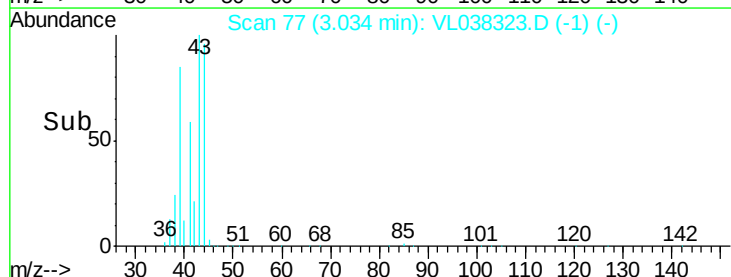
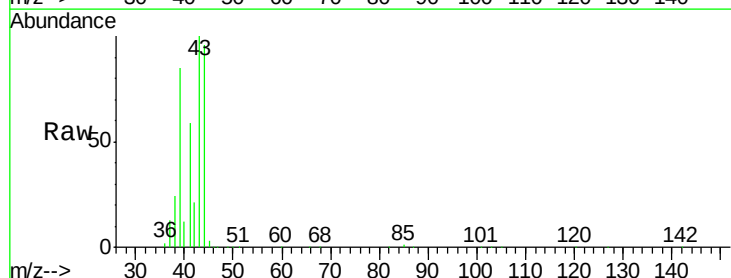
Acq: 1 Feb 2022 16:12

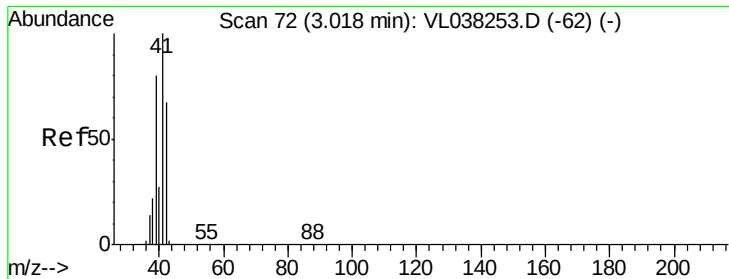
Tgt Ion: 85 Resp: 17797

Ion Ratio Lower Upper

85 100

87 38.8 27.0 40.6



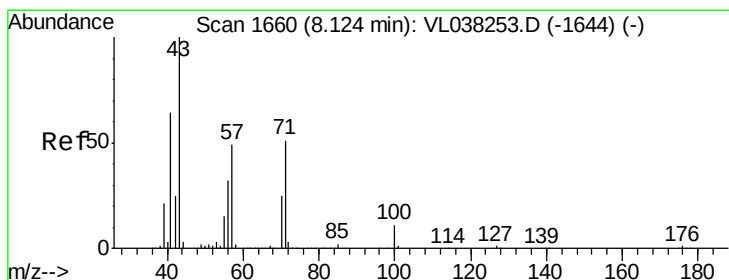
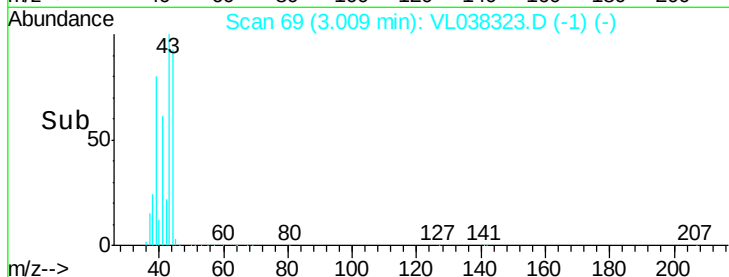
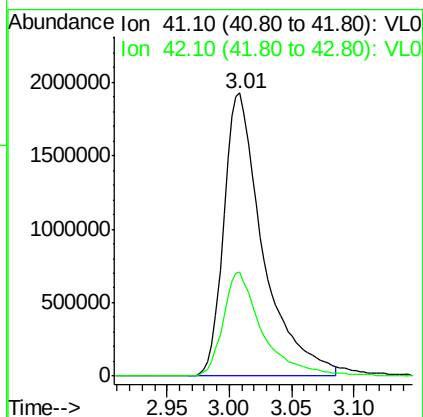
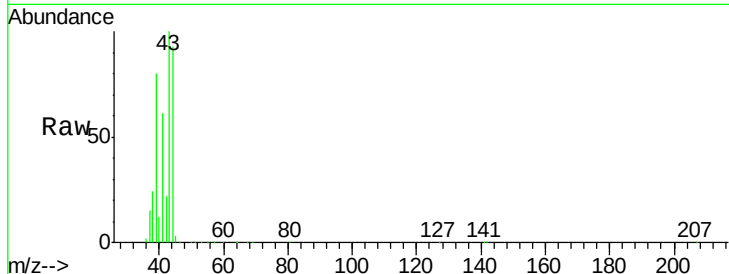


#9
 Propene
 Concen: 86.109 ppbv m
 RT: 3.01
 Instrument : MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId :
 SVP-1
 Acq: 1 Feb 2022 16:12

Tgt Ion:
 Ion Ratio
 41 100
 42 16.

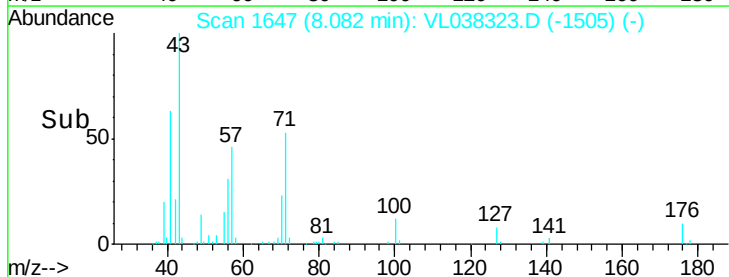
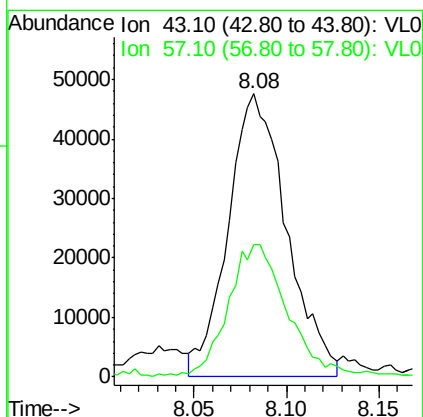
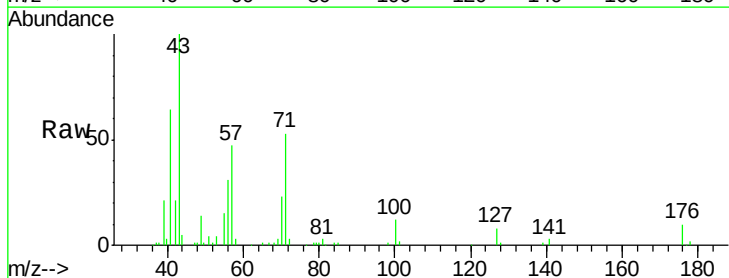
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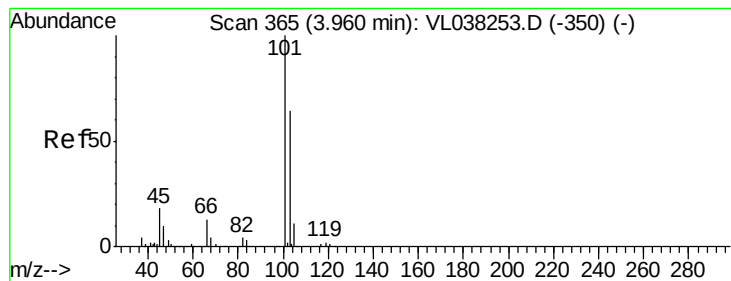
Reviewed By :Semsettin Yesilyurt 02/07/2022
 Supervised By :Mahesh Dadoda 02/07/2022



#10
 Heptane
 Concen: 0.831 ppbv m
 RT: 8.08 min Scan# 1647
 Delta R.T. -0.04 min
 Lab File: VL038323.D
 Acq: 1 Feb 2022 16:12

Tgt Ion: 43 Resp: 104670
 Ion Ratio Lower Upper
 43 100
 57 46.7 39.5 59.3





#11

Trichlorofluoromethane

Concen: 0.226 ppbv

RT: 3.93 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 1 Feb 2022 16:12 SVP-1

Tgt Ion:1

Ion Ratio

101 100

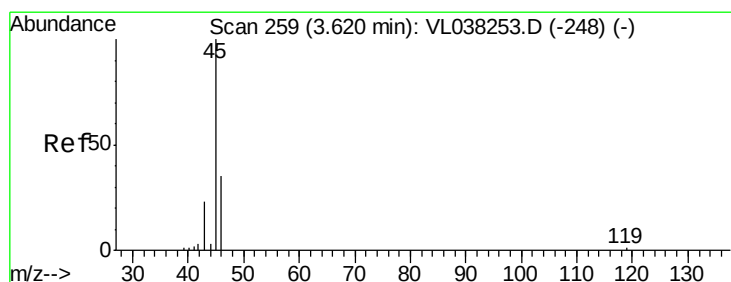
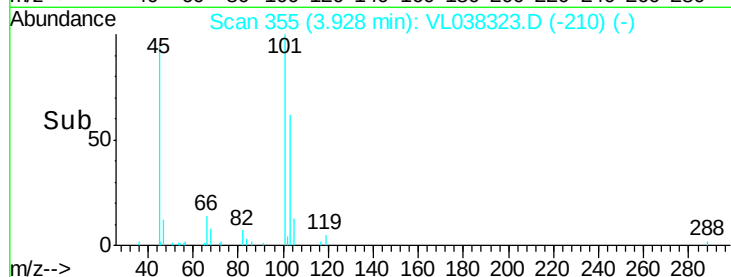
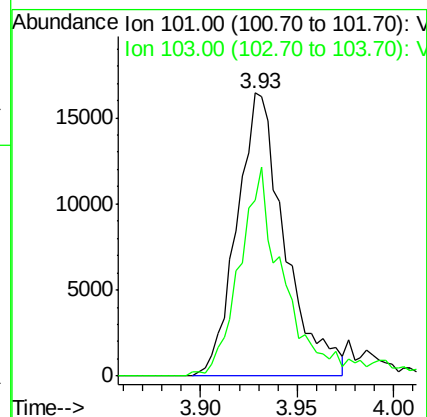
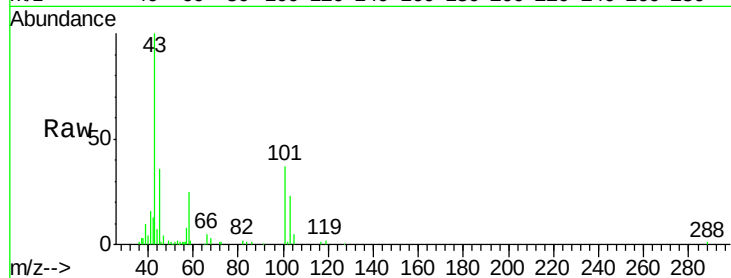
103 60.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 02/07/2022

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#13

Ethanol

Concen: 36.636 ppbv

RT: 3.58 min Scan# 247

Delta R.T. -0.04 min

Lab File: VL038323.D

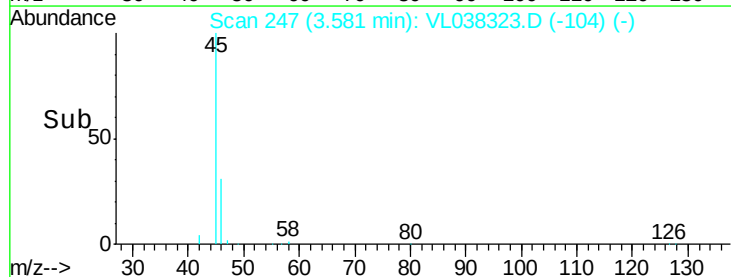
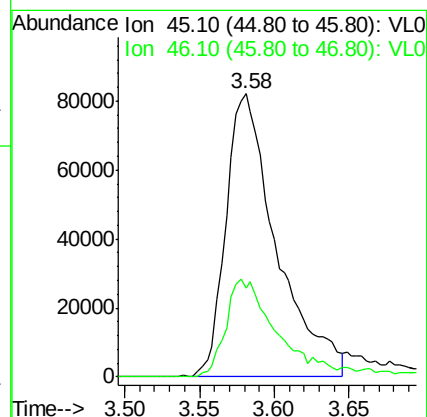
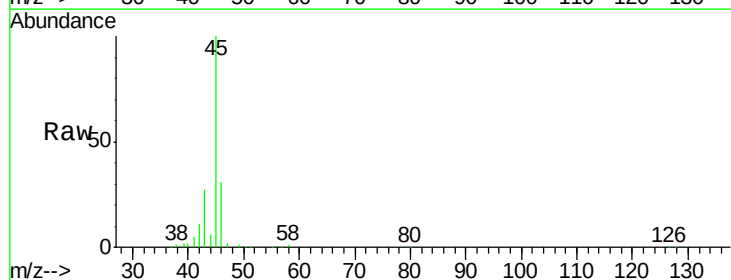
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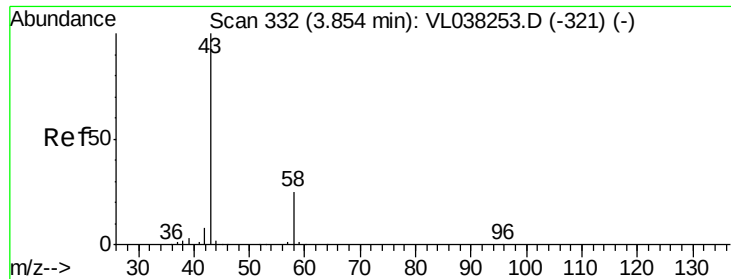
Tgt Ion: 45 Resp: 192538

Ion Ratio Lower Upper

45 100

46 38.1 15.4 61.6





#15

Acetone

Concen: 71.849 ppbv

RT: 3.82

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 1 Feb 2022 16:12

Tgt Ion:

Ion Ratio

43 100

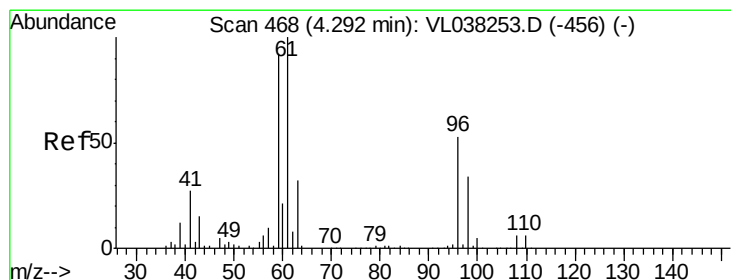
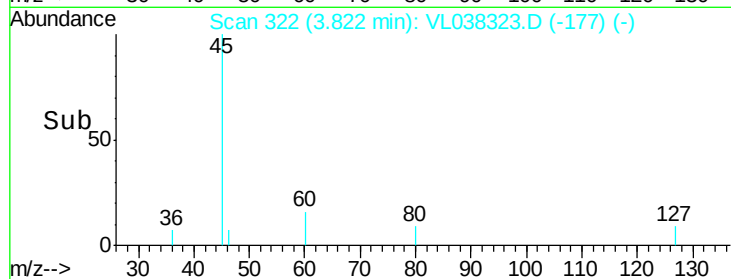
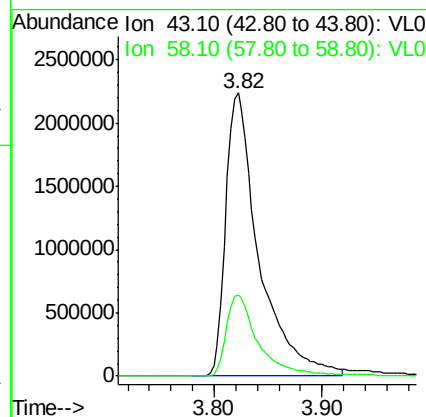
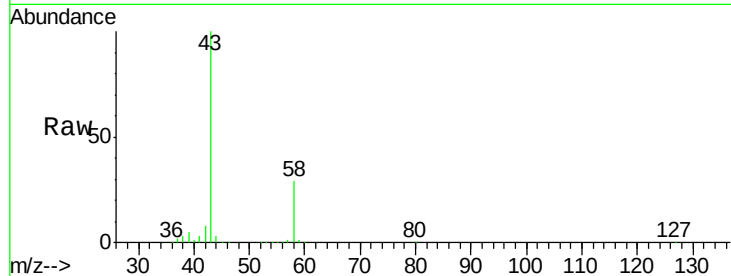
58 28.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 02/07/2022

Supervised By :Mahesh Dadoda 02/07/2022



#17

tert-Butyl alcohol

Concen: 3.275 ppbv

RT: 4.27 min Scan# 460

Delta R.T. -0.03 min

Lab File: VL038323.D

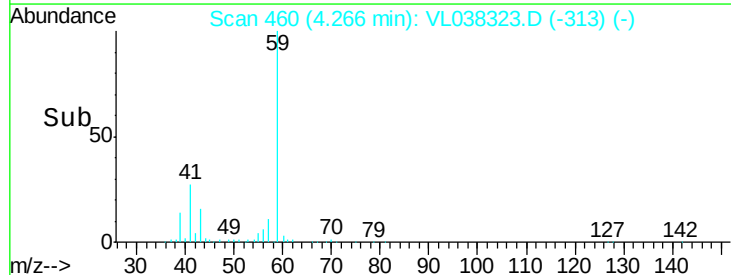
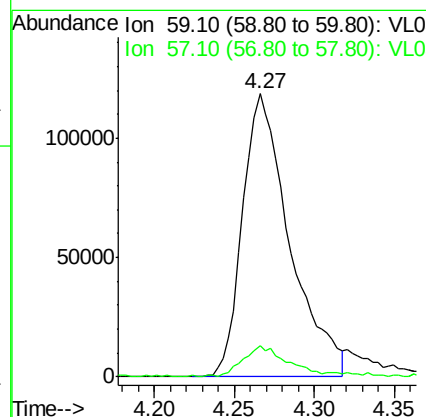
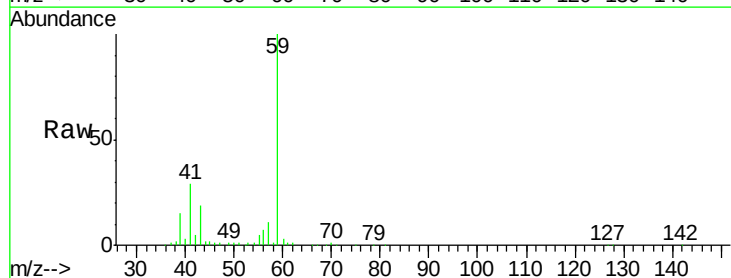
Acq: 1 Feb 2022 16:12

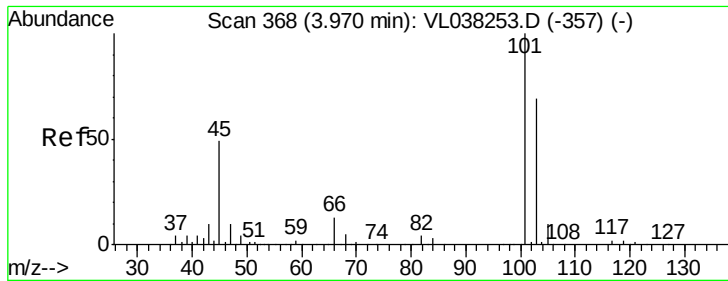
Tgt Ion: 59 Resp: 239346

Ion Ratio Lower Upper

59 100

57 12.1 9.2 13.8



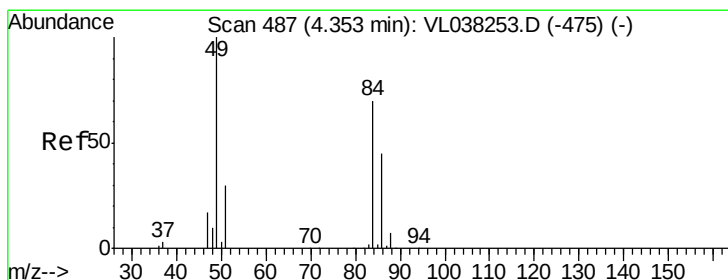
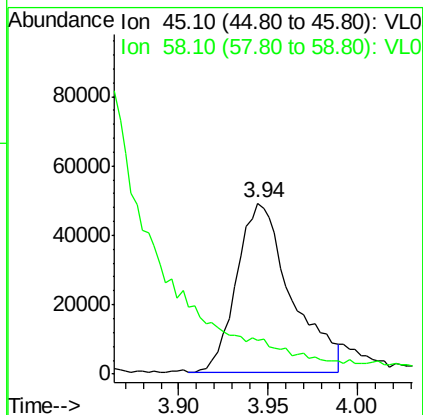
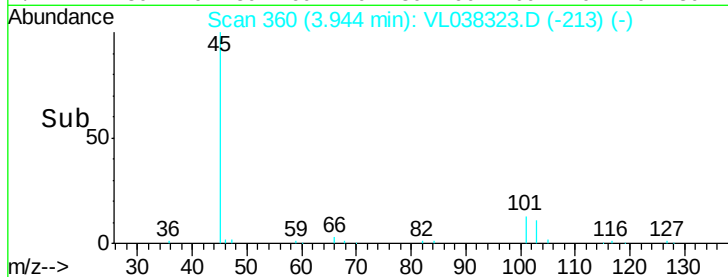
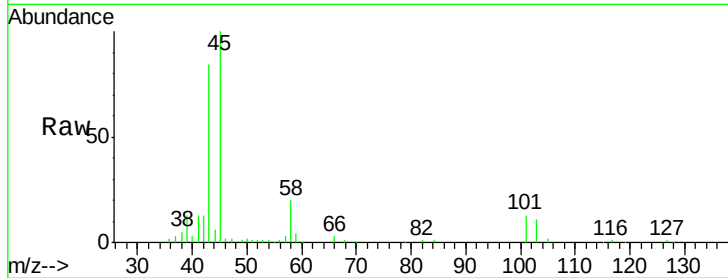


#19
Isopropyl Alcohol
Concen: 2.489 ppbv
RT: 3.94
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 1 Feb 2022 16:12

Tgt Ion:
Ion Ratio
45 100
58 0.

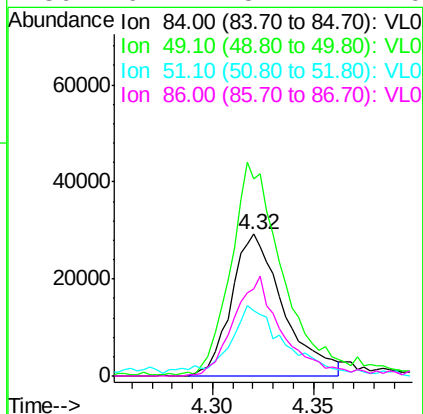
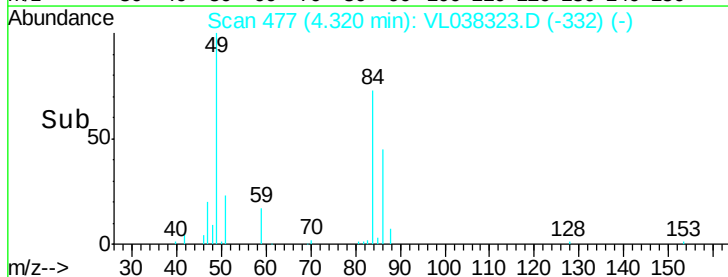
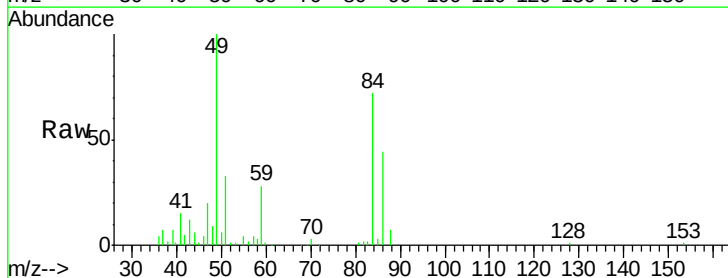
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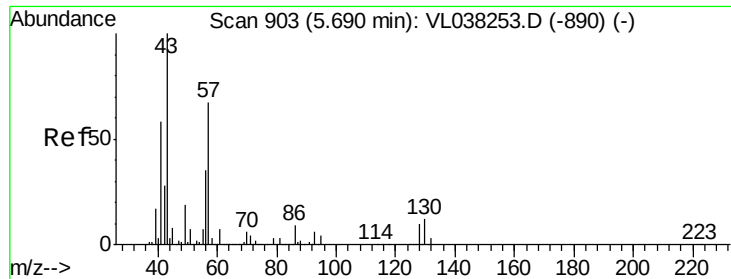
Reviewed By :Semsettin Yesilyurt 02/07/2022
Supervised By :Mahesh Dadoda 02/07/2022



#20
Methylene Chloride
Concen: 1.364 ppbv
RT: 4.32 min Scan# 477
Delta R.T. -0.03 min
Lab File: VL038323.D
Acq: 1 Feb 2022 16:12

Tgt Ion: 84 Resp: 52812
Ion Ratio Lower Upper
84 100
49 136.6 115.0 172.6
51 41.9 35.0 52.6
86 61.1 51.4 77.0



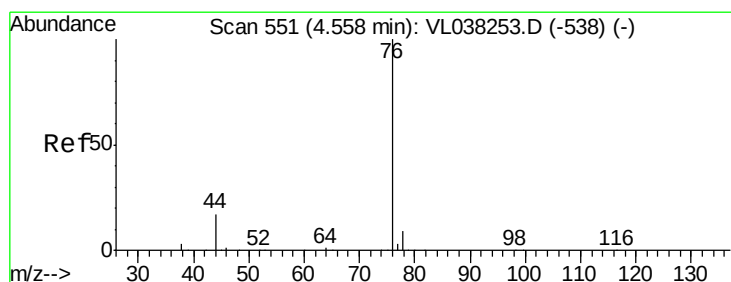
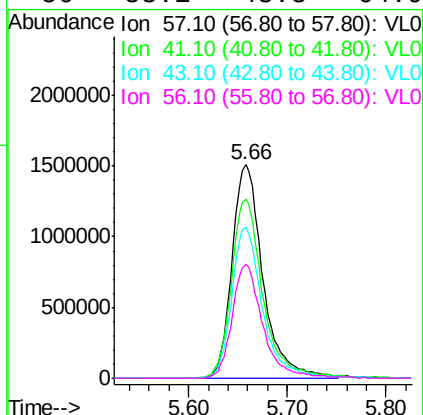
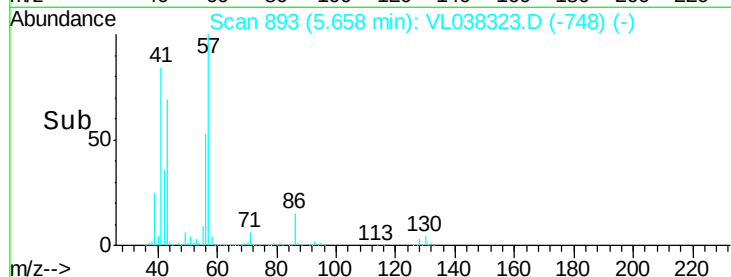
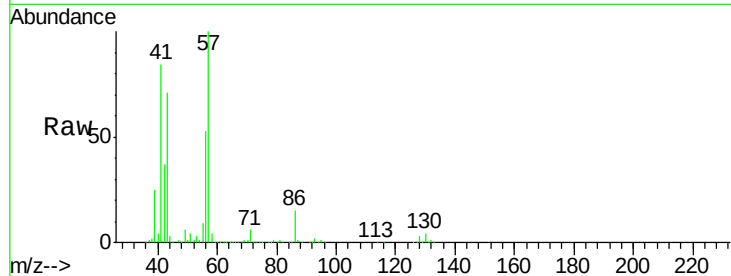


#26
Hexane
Concen: 37.971 ppbv
RT: 5.66
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 1 Feb 2022 16:12

Tgt Ion: 57
Ion Ratio: 100
57 100
41 86.
43 71.
56 53.1 43.3 64.9

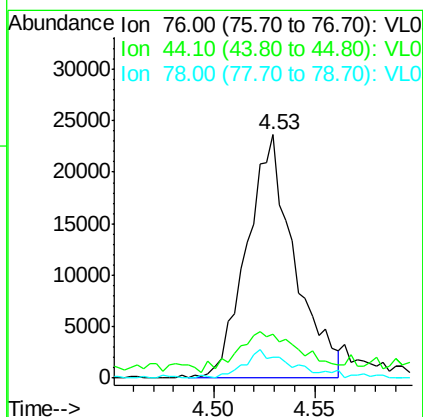
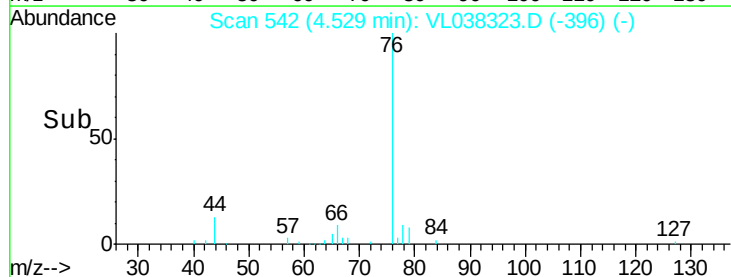
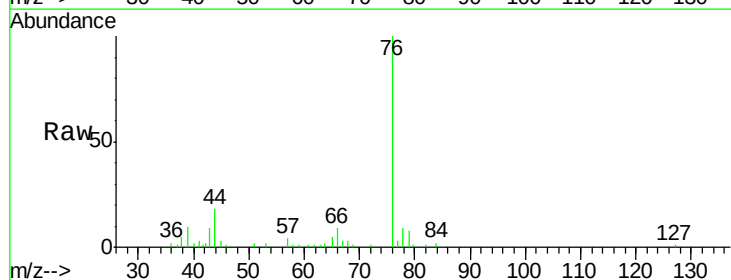
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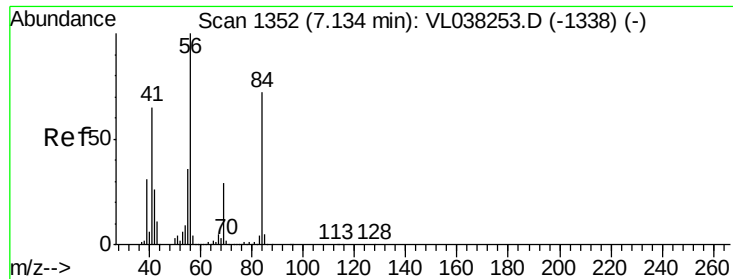
Reviewed By :Semsettin Yesilyurt 02/07/2022
Supervised By :Mahesh Dadoda 02/07/2022



#27
Carbon Disulfide
Concen: 0.384 ppbv
RT: 4.53 min Scan# 542
Delta R.T. -0.03 min
Lab File: VL038323.D
Acq: 1 Feb 2022 16:12

Tgt Ion: 76 Resp: 38946
Ion Ratio Lower Upper
76 100
44 22.9 14.8 22.2#
78 12.6 7.9 11.9#



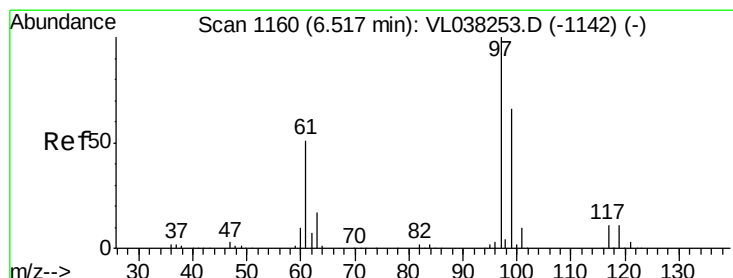
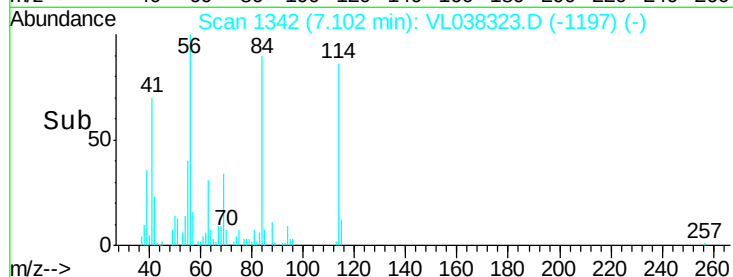
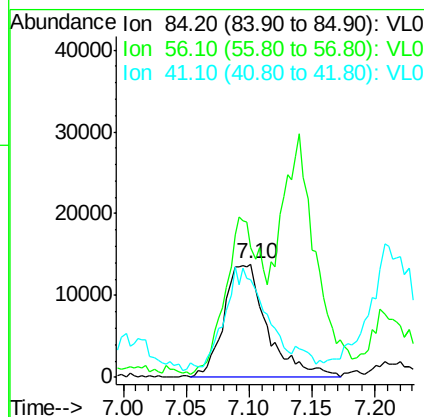
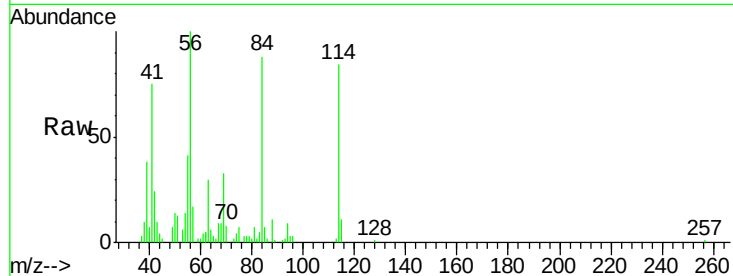


#30
Cyclohexane
Concen: 0.440 ppbv m
RT: 7.10
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 1 Feb 2022 16:12

Tgt Ion:
Ion Ratio
84 100
56 125.
41 99.

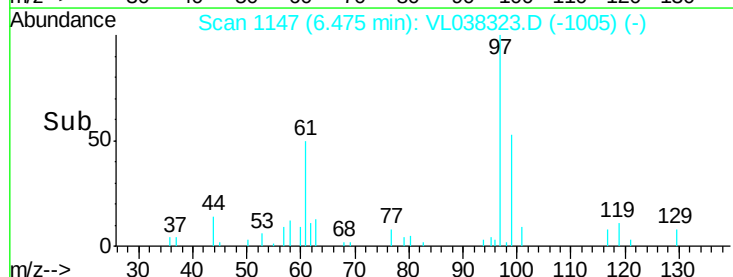
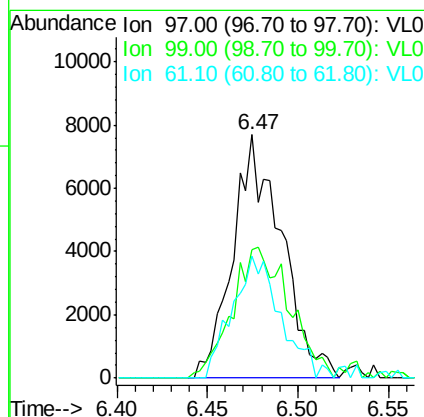
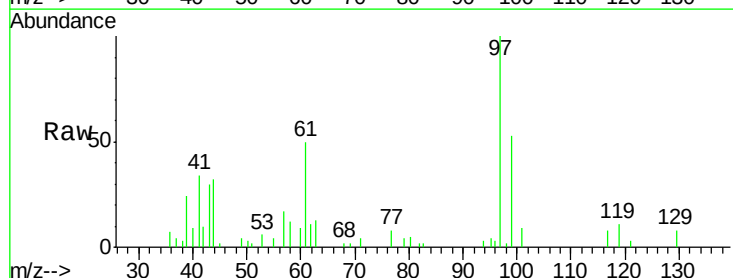
Manual Integrations
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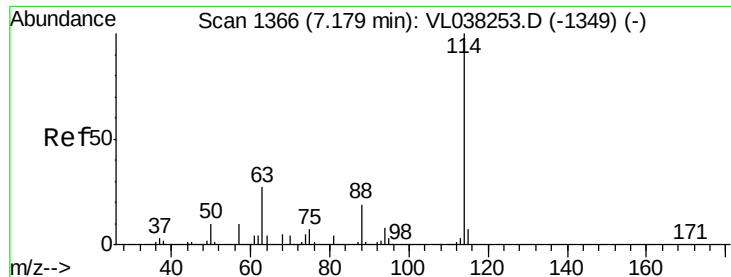
Reviewed By :Semsettin Yesilyurt 02/07/2022
Supervised By :Mahesh Dadoda 02/07/2022



#32
1,1,1-Trichloroethane
Concen: 0.102 ppbv m
RT: 6.47 min Scan# 1147
Delta R.T. -0.04 min
Lab File: VL038323.D
Acq: 1 Feb 2022 16:12

Tgt Ion: 97 Resp: 14351
Ion Ratio Lower Upper
97 100
99 0.0 51.5 77.3#
61 51.4 40.5 60.7



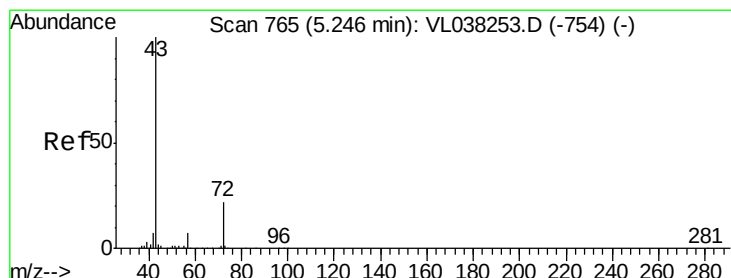
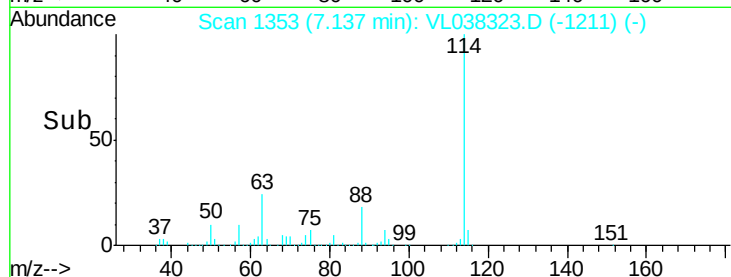
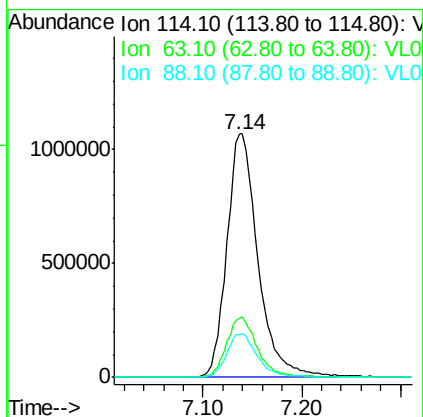
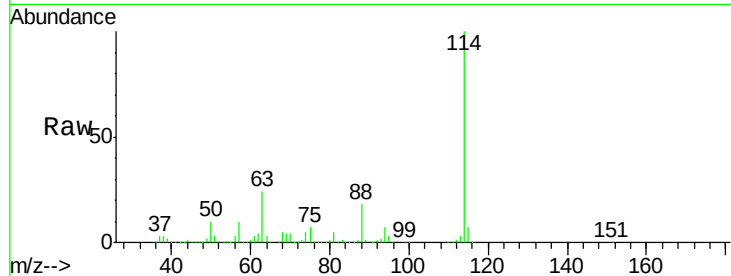


#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.14
 Instrument : MSVOA_L
 Delta R.T.:
 Lab File: ClientSampleId :
 SVP-1
 Acq: 1 Feb 2022 16:12

Tgt Ion: 114
 Ion Ratio
 114 100
 63 24.1
 88 17.1

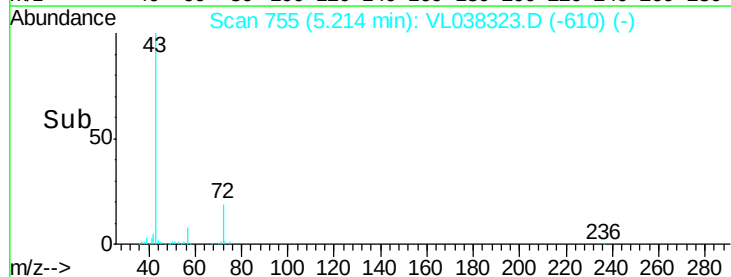
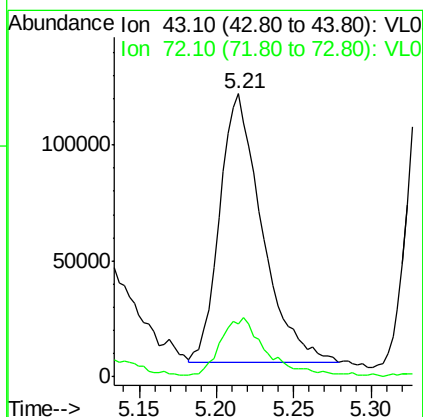
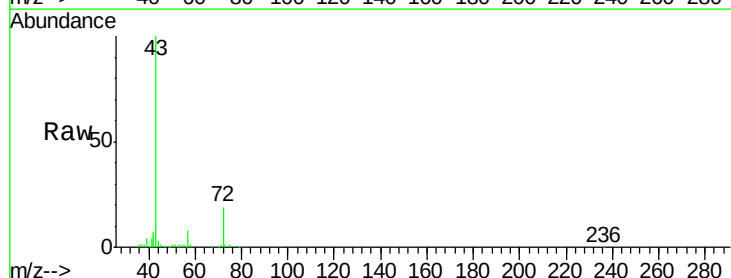
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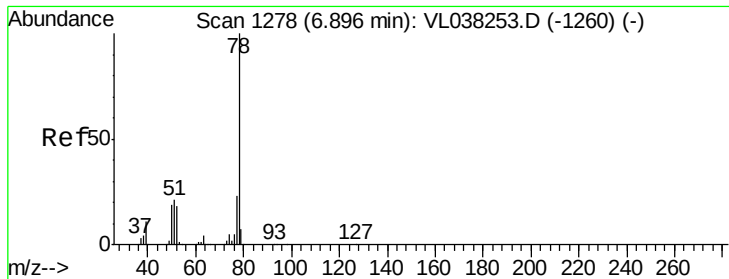
Reviewed By : Semsettin Yesilyurt 02/07/2022
 Supervised By : Mahesh Dadoda 02/07/2022



#34
 2-Butanone
 Concen: 2.866 ppbv
 RT: 5.21 min Scan# 755
 Delta R.T. -0.03 min
 Lab File: VL038323.D
 Acq: 1 Feb 2022 16:12

Tgt Ion: 43 Resp: 220503
 Ion Ratio Lower Upper
 43 100
 72 25.1 18.1 27.1



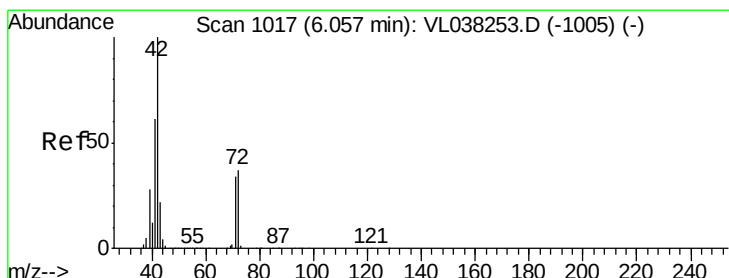
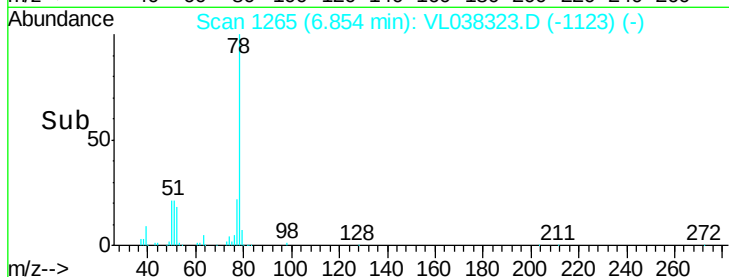
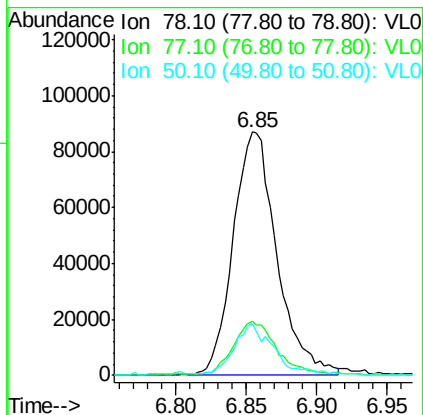
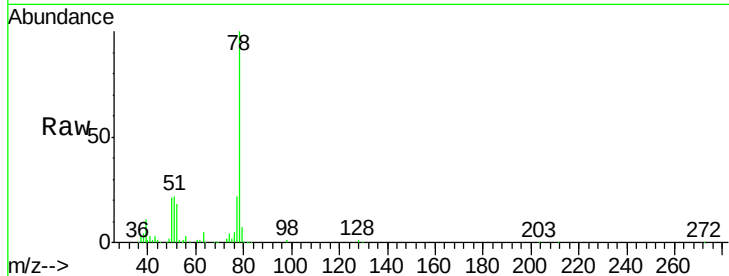


#36
Benzene
Concen: 0.904 ppbv
RT: 6.85
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 1 Feb 2022 16:12

Tgt Ion:
Ion Ratio
78 100
77 21.
50 20.

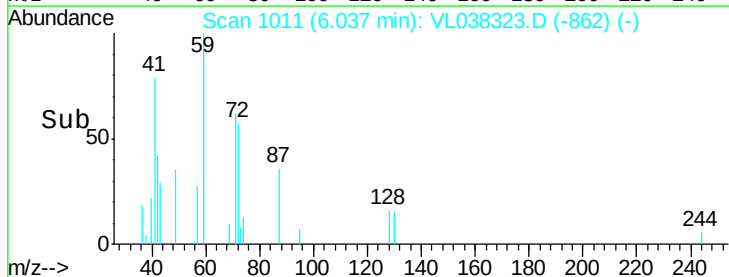
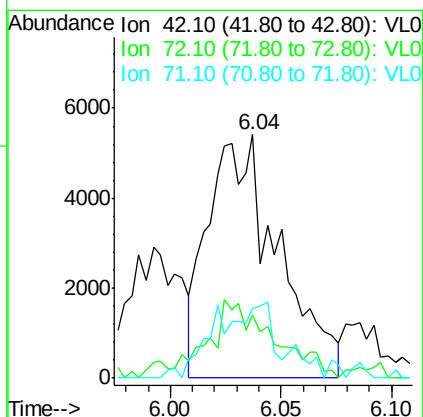
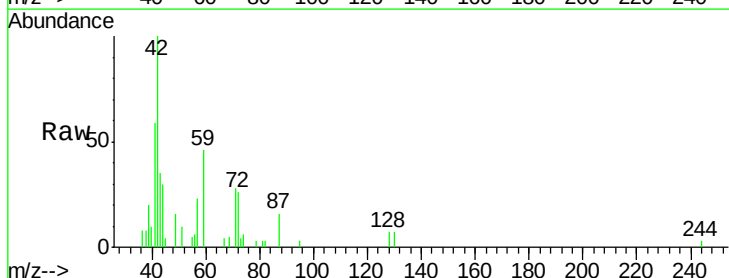
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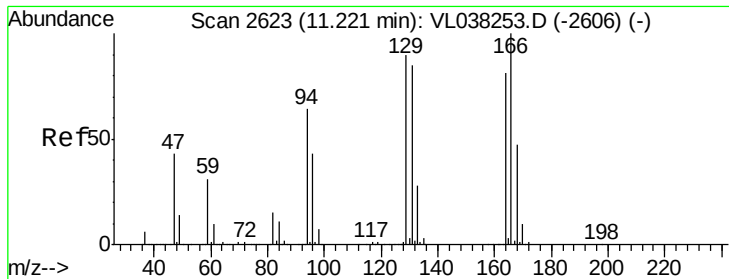
Reviewed By :Semsettin Yesilyurt 02/07/2022
Supervised By :Mahesh Dadoda 02/07/2022



#41
Tetrahydrofuran
Concen: 0.229 ppbv m
RT: 6.04 min Scan# 1011
Delta R.T. -0.02 min
Lab File: VL038323.D
Acq: 1 Feb 2022 16:12

Tgt Ion: 42 Resp: 11857
Ion Ratio Lower Upper
42 100
72 0.0 29.7 44.5#
71 0.0 29.4 44.2#





#52

Tetrachloroethene

Concen: 0.114 ppbv m

RT: 11.18

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 1 Feb 2022 16:12

Tgt Ion:1

Ion Ratio

164 100

166 121.

129 87.

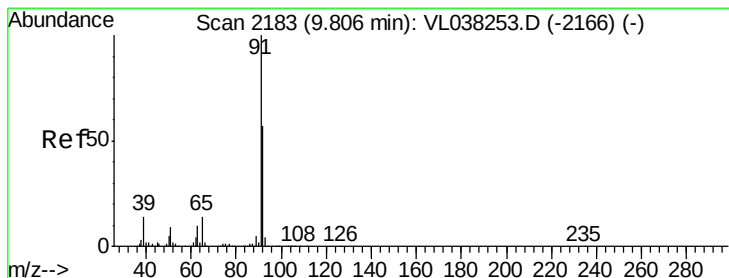
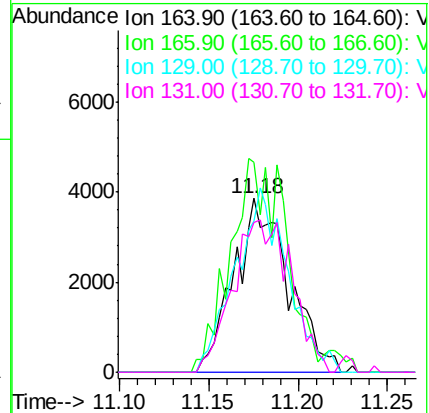
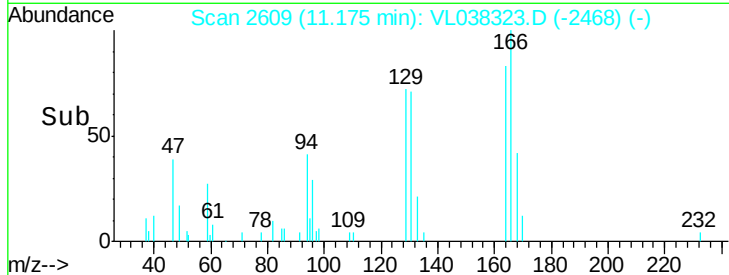
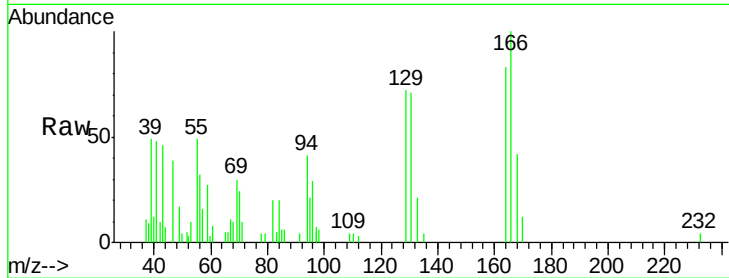
131 86.0 83.6 125.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 02/07/2022

Supervised By :Mahesh Dadoda 02/07/2022



#53

Toluene

Concen: 1.535 ppbv

RT: 9.76 min Scan# 2169

Delta R.T. -0.05 min

Lab File: VL038323.D

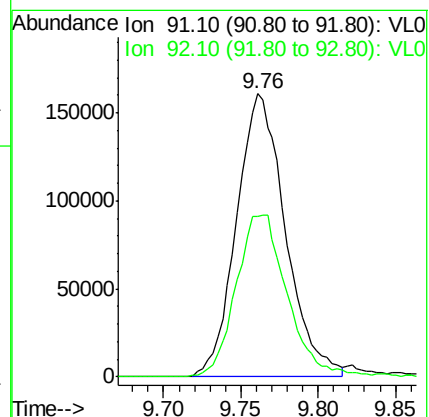
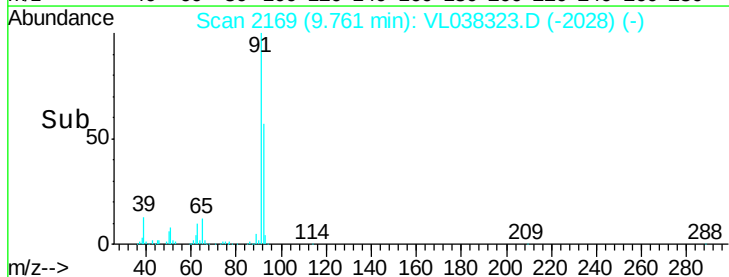
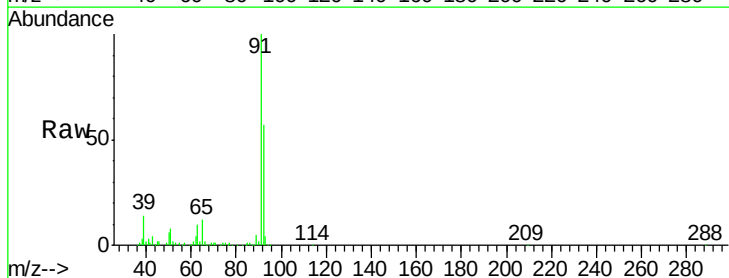
Acq: 1 Feb 2022 16:12

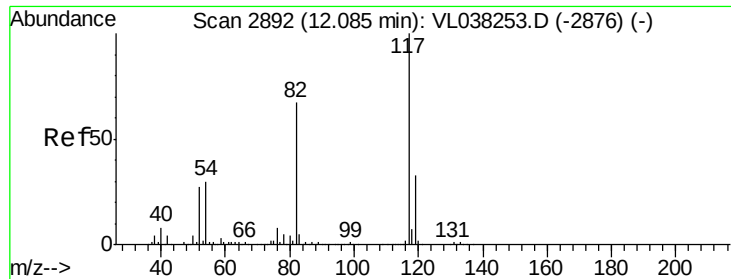
Tgt Ion: 91 Resp: 353608

Ion Ratio Lower Upper

91 100

92 60.6 47.4 71.0



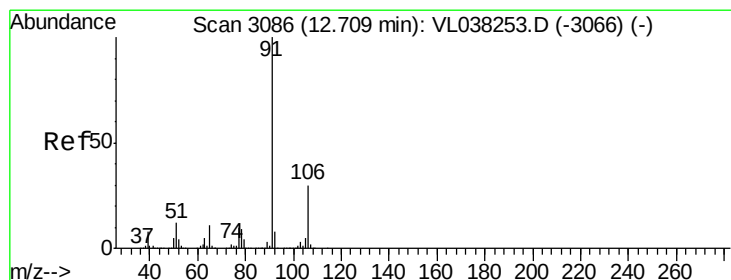
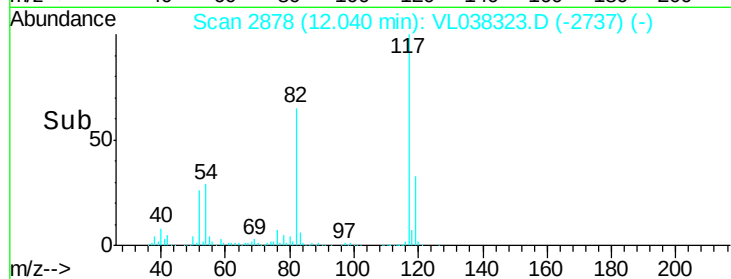
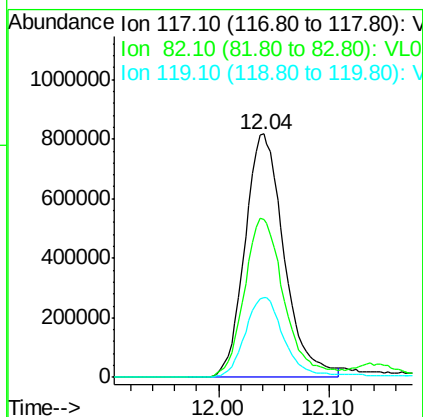
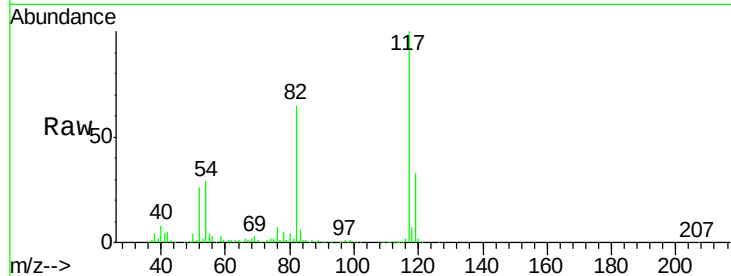


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.04 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 1 Feb 2022 16:12

Tgt Ion: 117
Ion Ratio: 100
117 100
82 66.
119 33.

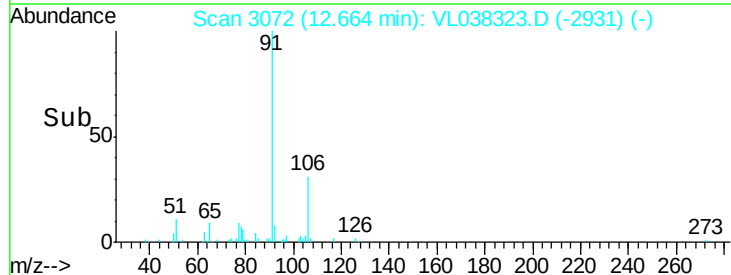
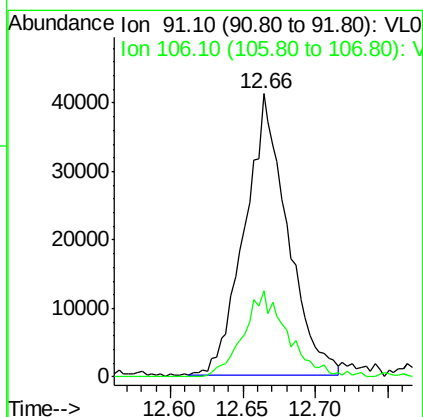
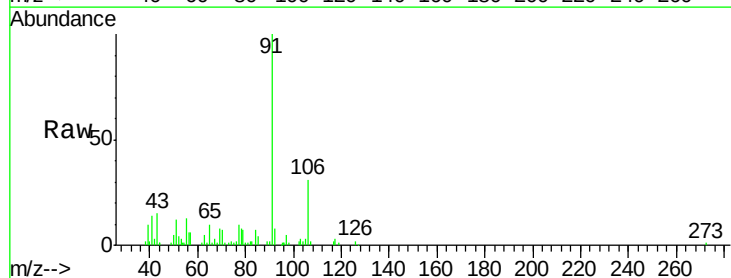
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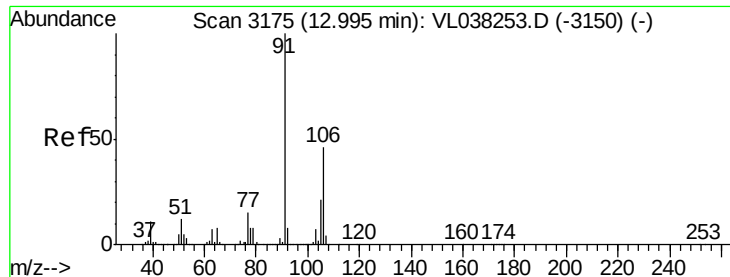
Reviewed By : Semsettin Yesilyurt 02/07/2022
Supervised By : Mahesh Dadoda 02/07/2022



#58
Ethyl Benzene
Concen: 0.286 ppbv
RT: 12.66 min Scan# 3072
Delta R.T. -0.05 min
Lab File: VL038323.D
Acq: 1 Feb 2022 16:12

Tgt Ion: 91 Resp: 84501
Ion Ratio Lower Upper
91 100
106 30.7 24.1 36.1



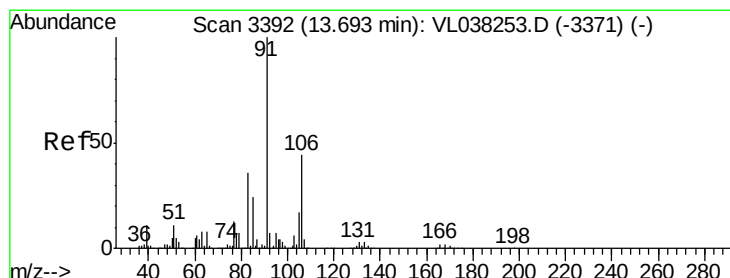
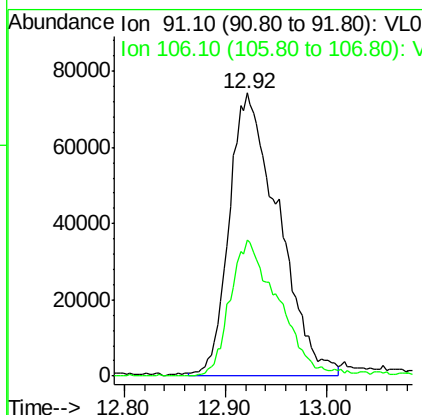
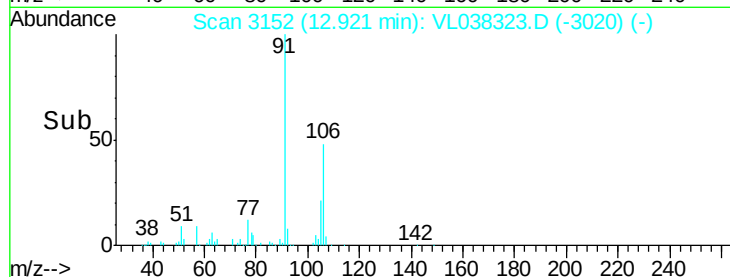
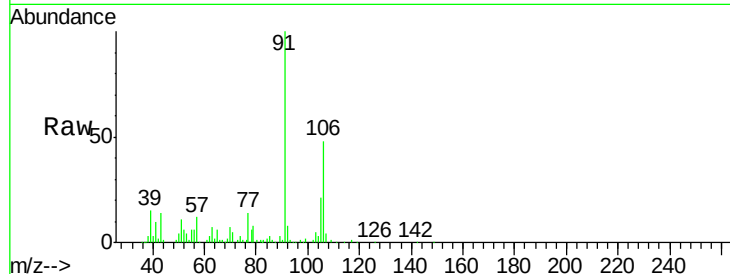


#59
m/p-Xylene
Concen: 0.996 ppbv m
RT: 12.92
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 1 Feb 2022 16:12

Tgt Ion:
Ion Ratio
91 100
106 0.

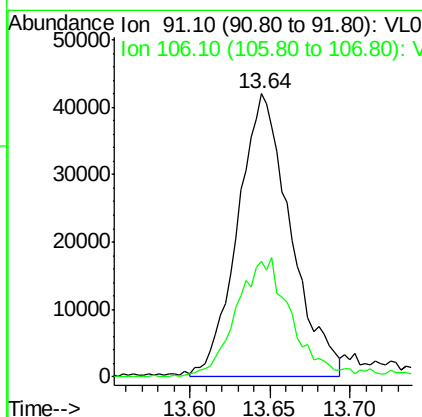
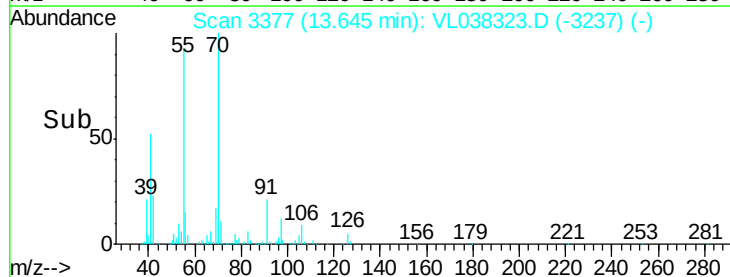
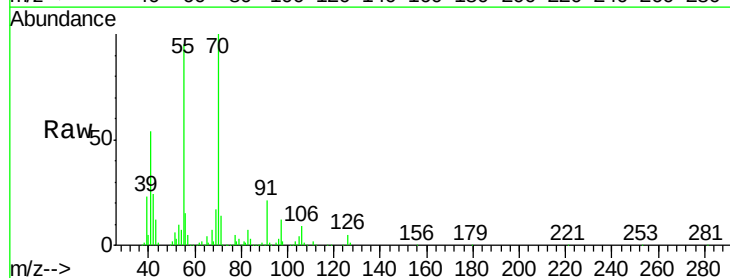
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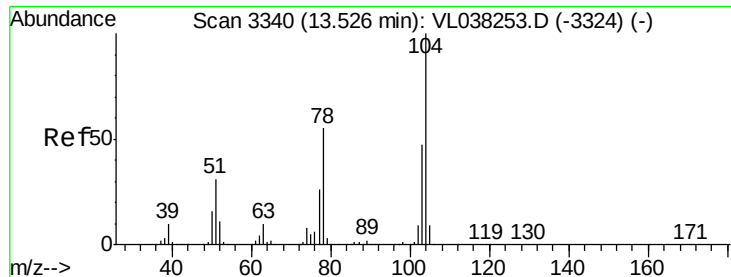
Reviewed By :Semsettin Yesilyurt 02/07/2022
Supervised By :Mahesh Dadoda 02/07/2022



#60
o-Xylene
Concen: 0.412 ppbv m
RT: 13.64 min Scan# 3377
Delta R.T. -0.05 min
Lab File: VL038323.D
Acq: 1 Feb 2022 16:12

Tgt Ion: 91 Resp: 96597
Ion Ratio Lower Upper
91 100
106 43.1 22.2 66.6



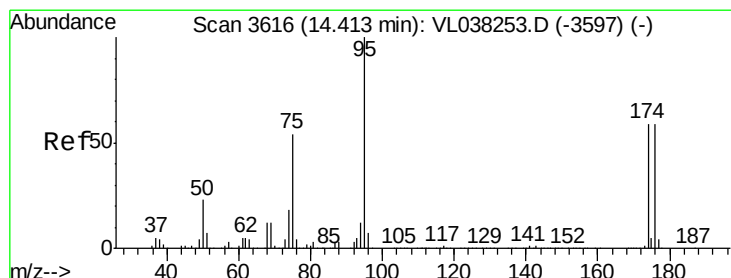
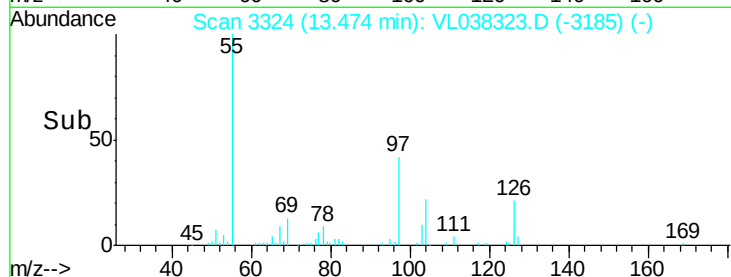
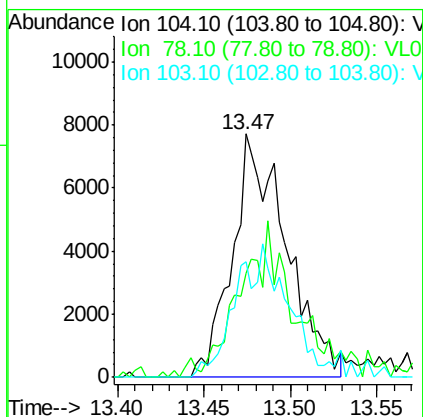
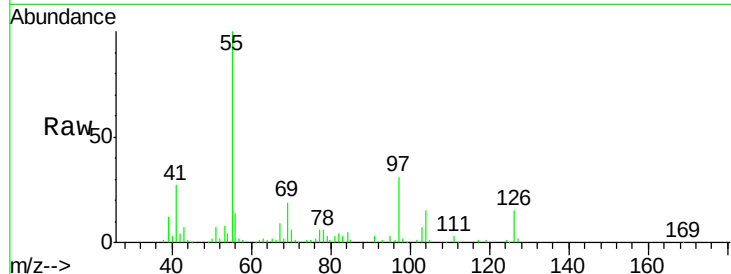


#61
Styrene
Concen: 0.154 ppbv m
RT: 13.47
Instrument: MSVOA_L
Delta R.T.:
Lab File: ClientSampleId:
SVP-1
Acq: 1 Feb 2022 16:12

Tgt Ion: 1
Ion Ratio
104 100
78 0.
103 0.

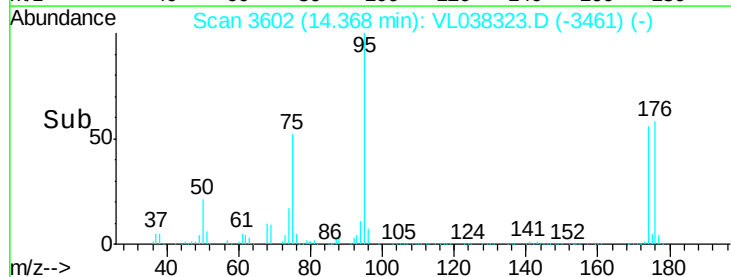
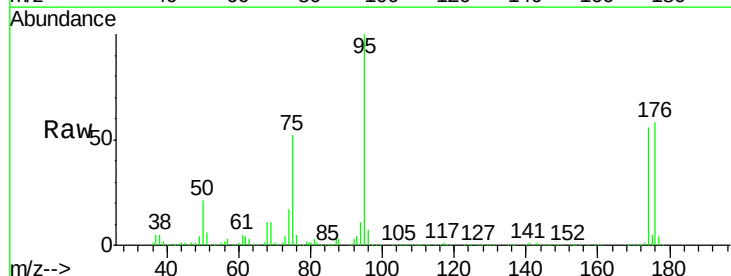
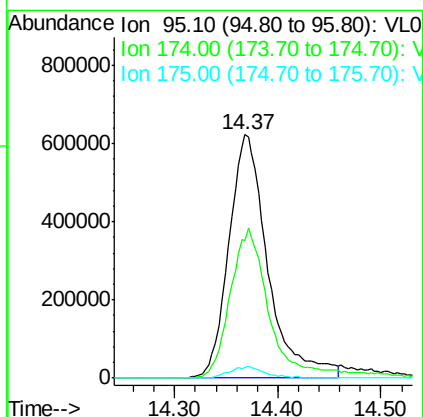
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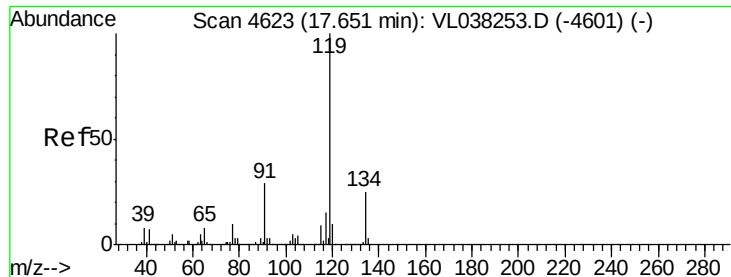
Reviewed By :Semsettin Yesilyurt 02/07/2022
Supervised By :Mahesh Dadoda 02/07/2022



#68
1-Bromo-4-Fluorobenzene
Concen: 10.689 ppbv
RT: 14.37 min Scan# 3602
Delta R.T. -0.05 min
Lab File: VL038323.D
Acq: 1 Feb 2022 16:12

Tgt Ion: 95 Resp: 1630571
Ion Ratio Lower Upper
95 100
174 63.7 48.3 72.5
175 4.9 3.5 5.3



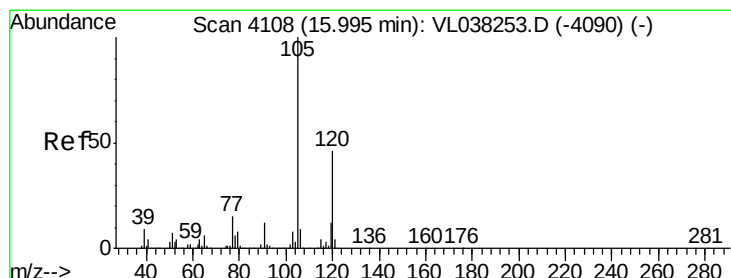
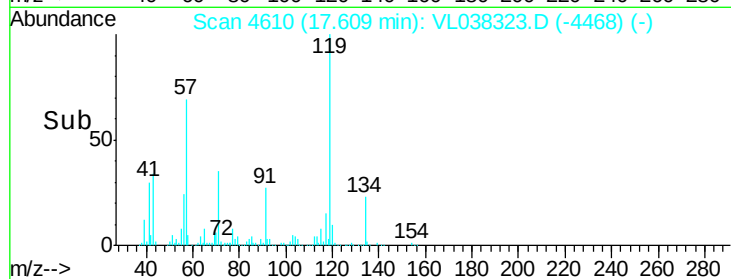
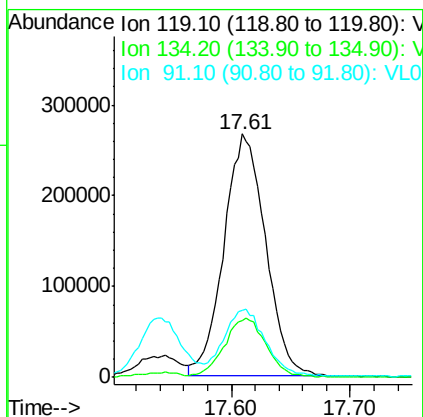
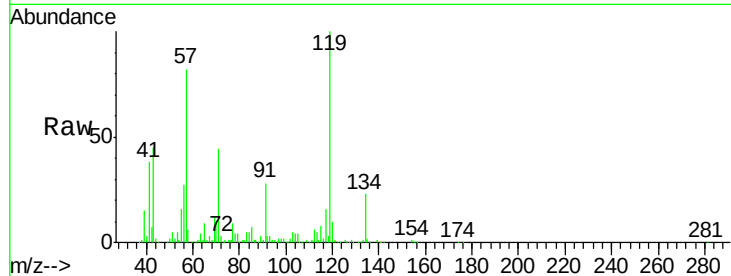


#69
 p-Isopropyltoluene
 Concen: 2.360 ppbv
 RT: 17.61
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 1 Feb 2022 16:12

Tgt Ion:1
 Ion Rati
 119 100
 134 24.
 91 28.

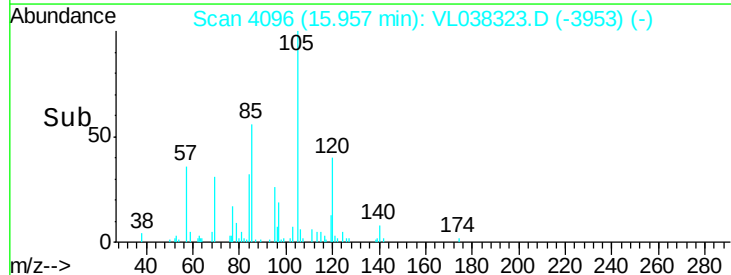
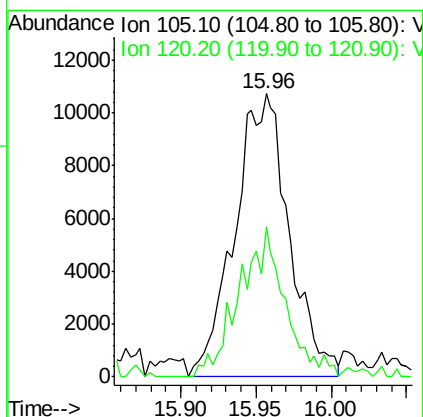
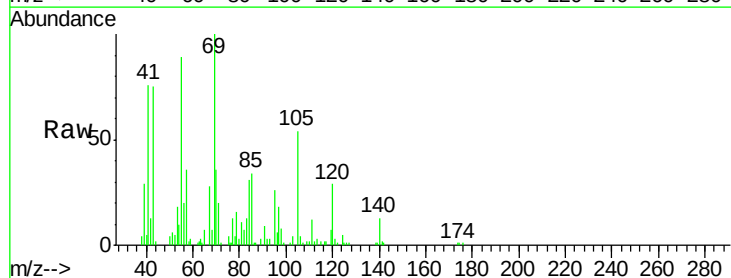
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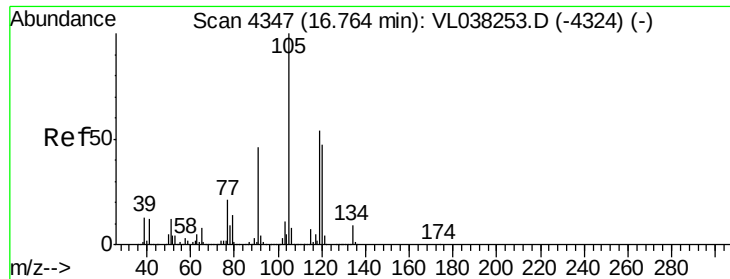
Reviewed By :Semsettin Yesilyurt 02/07/2022
 Supervised By :Mahesh Dadoda 02/07/2022



#73
 1,3,5-Trimethylbenzene
 Concen: 0.122 ppbv m
 RT: 15.96 min Scan# 4096
 Delta R.T. -0.04 min
 Lab File: VL038323.D
 Acq: 1 Feb 2022 16:12

Tgt Ion:105 Resp: 26953
 Ion Ratio Lower Upper
 105 100
 120 53.1 36.6 55.0





#74

1,2,4-Trimethylbenzene

Concen: 0.400 ppbv m

RT: 16.72

Delta R.T. MSVOA_L

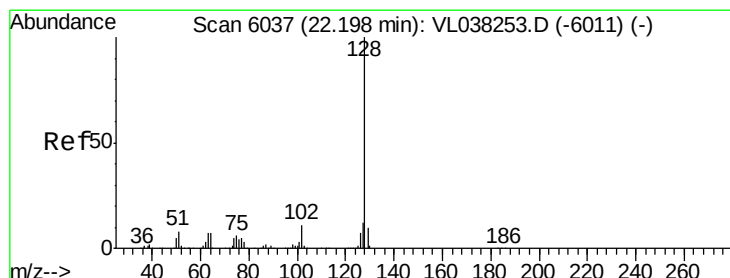
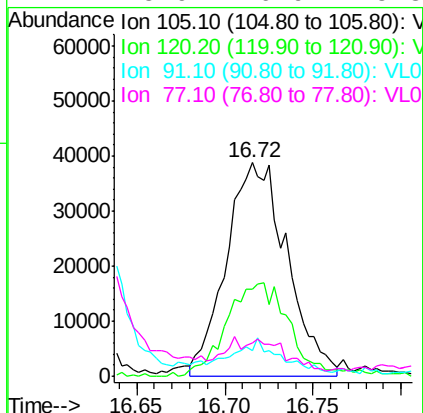
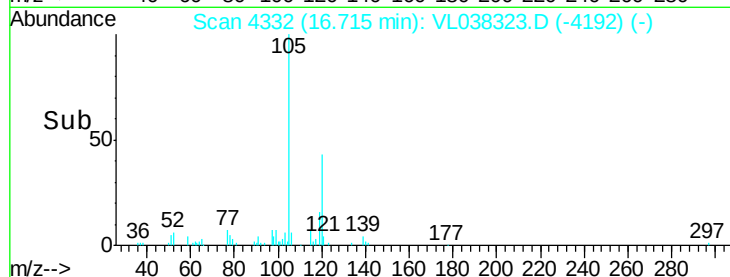
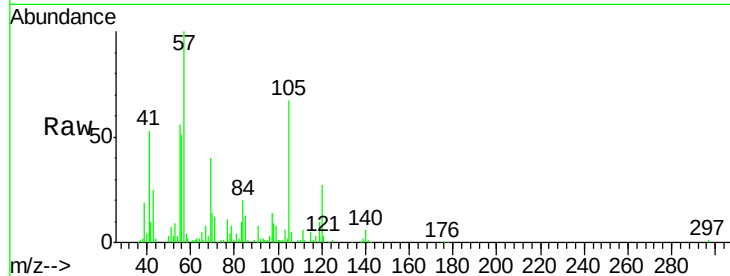
Lab File: ClientSampleId :

Acq: 1 Feb 2022 16:12

Tgt Ion:1
Ion Ratio
105 100
120 41.
91 12.
77 15.9 16.9 25.3#

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 02/07/2022
Supervised By :Mahesh Dadoda 02/07/2022



#79

Naphthalene

Concen: 0.204 ppbv m

RT: 22.14 min Scan# 6020

Delta R.T. -0.05 min

Lab File: VL038323.D

Acq: 1 Feb 2022 16:12

Tgt Ion:128 Resp: 22153
Ion Ratio Lower Upper
128 100
127 13.7 9.7 14.5
129 9.1 8.1 12.1

