

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL032322\
 Data File : VL038745.D
 Acq On : 24 Mar 2022 10:49
 Operator : SY/AP
 Sample : N2052-02
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 C0P96

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 03/25/2022
 Supervised By : Mahesh Dadoda 03/28/2022

Quant Time: Mar 25 01:46:30 2022

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL032122A

Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument:

QLast Update : Mon Mar 21 17:09:26 2022

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	680451	10.00	ppbv	0.01
33) 1,4-Difluorobenzene	7.18	114	1793004	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	1543510	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.41	95	1132806	9.57	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.70%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.06	85	28967	0.32	ppbv	98
3) Chlorodifluoromethane	3.00	51	25398	0.35	ppbv	93
4) Chloromethane	3.15	50	9448	0.24	ppbv	93
9) Propene	3.02	41	40491	1.17	ppbv	95
11) Trichlorofluoromethane	3.96	101	25336	0.31	ppbv	98
13) Ethanol	3.61	45	91126	23.81	ppbv	99
15) Acetone	3.85	43	683936	11.65	ppbv #	86
17) tert-Butyl alcohol	4.30	59	17787m	0.35	ppbv	
19) Isopropyl Alcohol	3.98	45	22992	0.71	ppbv #	1
20) Methylene Chloride	4.35	84	94847	3.84	ppbv	98
26) Hexane	5.69	57	70786	1.07	ppbv #	36
27) Carbon Disulfide	4.56	76	12329	0.19	ppbv #	78
29) Chloroform	5.75	83	54072	0.51	ppbv	98
34) 2-Butanone	5.25	43	677944	9.55	ppbv	97
35) Carbon Tetrachloride	7.02	117	5912m	0.06	ppbv	
51) 2-Hexanone	10.15	43	41953	0.44	ppbv #	91
52) Tetrachloroethene	11.22	164	198139	3.91	ppbv	98
53) Toluene	9.80	91	30648	0.21	ppbv	96
67) sec-Butylbenzene	17.29	105	39336m	0.14	ppbv	
69) p-Isopropyltoluene	17.65	119	56655m	0.24	ppbv	
70) n-Butylbenzene	18.56	91	68655m	0.28	ppbv	
72) 4-Ethyltoluene	15.83	105	25488m	0.14	ppbv	
73) 1,3,5-Trimethylbenzene	15.99	105	47470m	0.29	ppbv	
74) 1,2,4-Trimethylbenzene	16.76	105	57020	0.32	ppbv #	74
75) 1,3-Dichlorobenzene	16.99	146	27557m	0.25	ppbv	

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

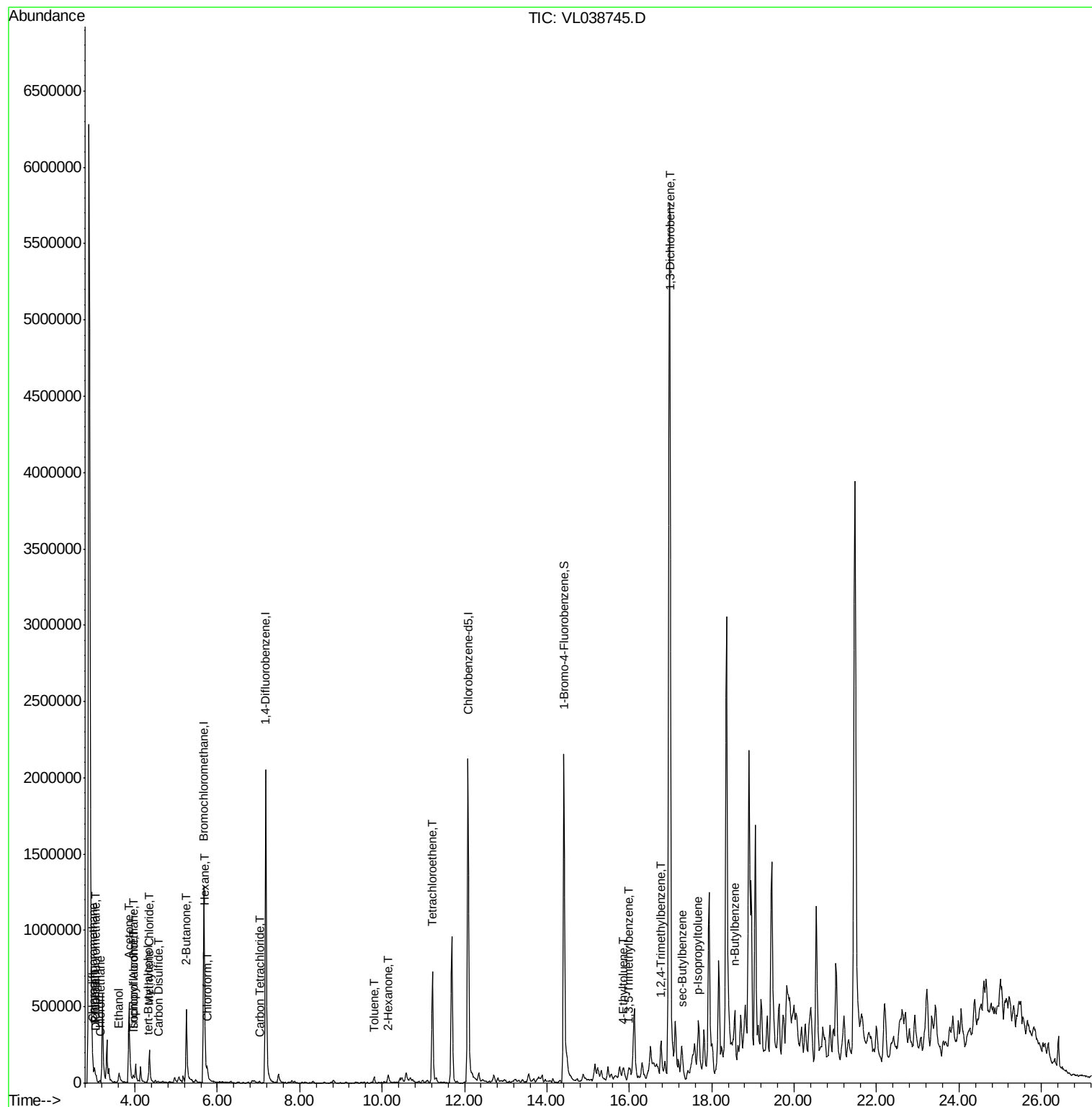
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_L\DATA\VL032322\
Data File : VL038745.D
Acq On : 24 Mar 2022 10:49
Operator : SY/AP
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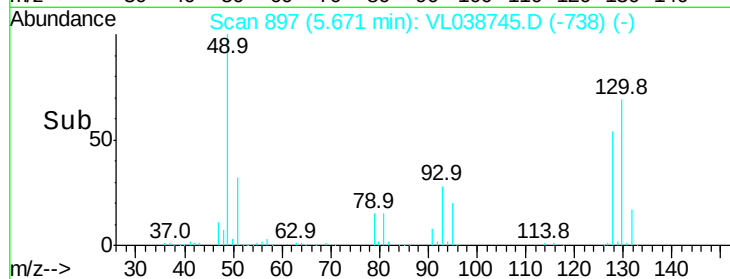
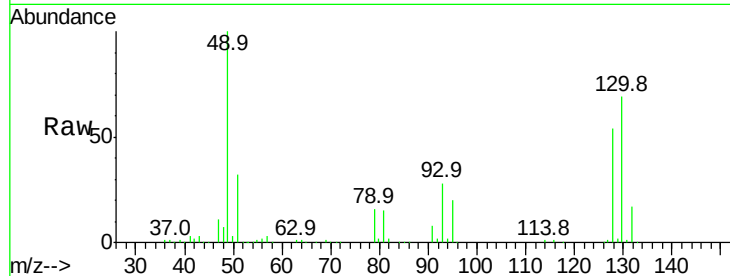
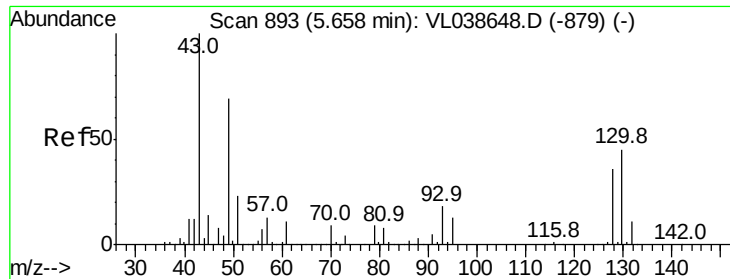
Instrument :
MSVOA_L
ClientSampleId :
C0P96

Manual Integrations
APPROVED

Quant Time: Mar 25 01:46:30 2022
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_L\METHODS\VL032122
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:
QLast Update : Mon Mar 21 17:09:26 2022
Response via : Initial Calibration

Reviewed By :Semsettin Yesilyurt 03/25/2022
Supervised By :Mahesh Dadoda 03/28/2022





#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.67 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 24 Mar 2022 10:49 C0P96

Tgt Ion:

Ion Ratio

49 100

128 55.

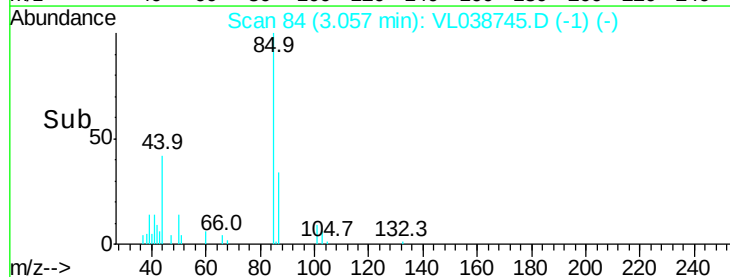
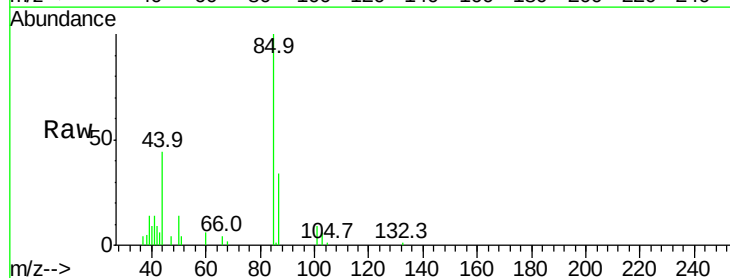
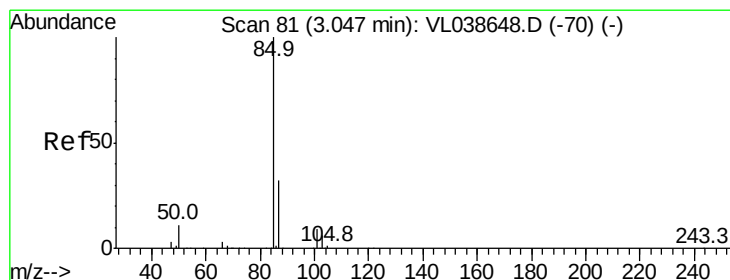
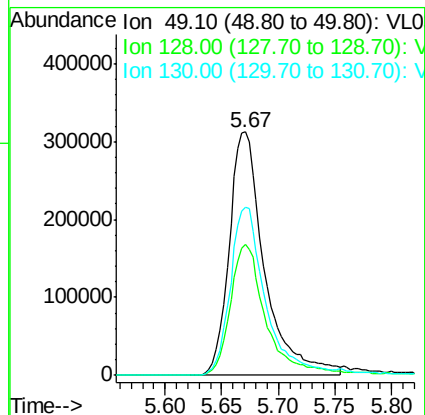
130 71.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/25/2022

Supervised By :Mahesh Dadoda 03/28/2022



#2

Dichlorodifluoromethane

Concen: 0.32 ppbv

RT: 3.06 min Scan# 84

Delta R.T. 0.01 min

Lab File: VL038745.D

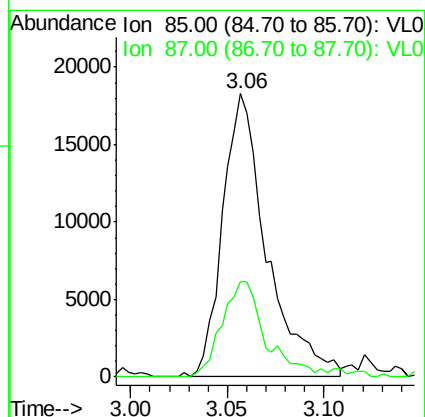
Acq: 24 Mar 2022 10:49

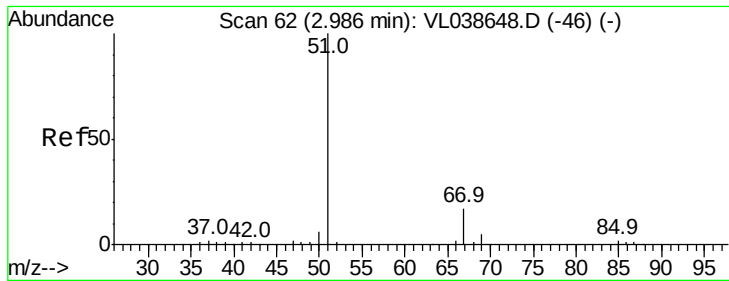
Tgt Ion: 85 Resp: 28967

Ion Ratio Lower Upper

85 100

87 33.7 26.0 39.0





#3

Chlorodifluoromethane

Concen: 0.35 ppbv

RT: 3.00 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 24 Mar 2022 10:49 C0P96

Tgt Ion:

Ion Ratio

51 100

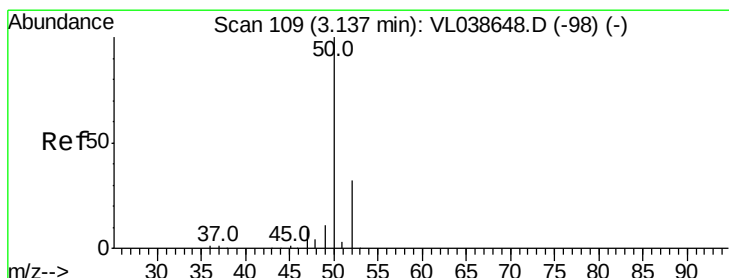
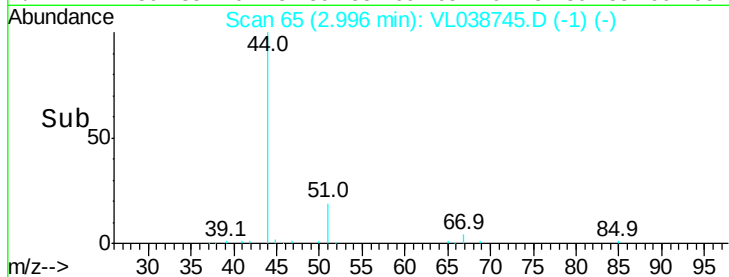
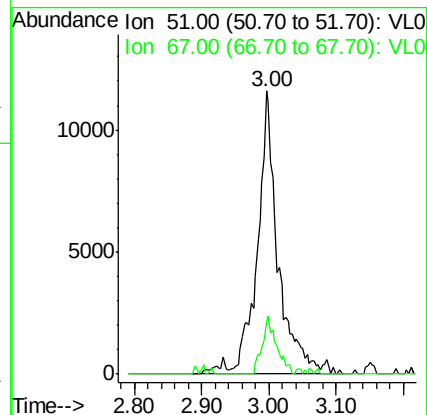
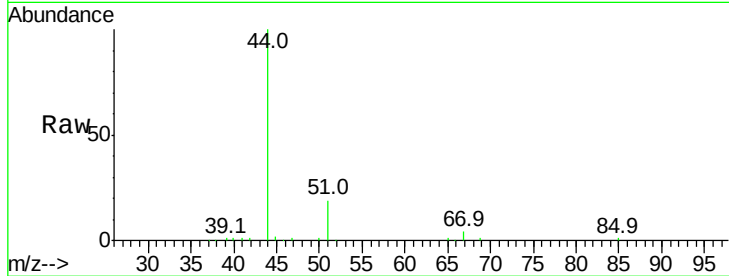
67 14.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 03/25/2022

Supervised By :Mahesh Dadoda 03/28/2022



#4

Chloromethane

Concen: 0.24 ppbv

RT: 3.15 min Scan# 113

Delta R.T. 0.01 min

Lab File: VL038745.D

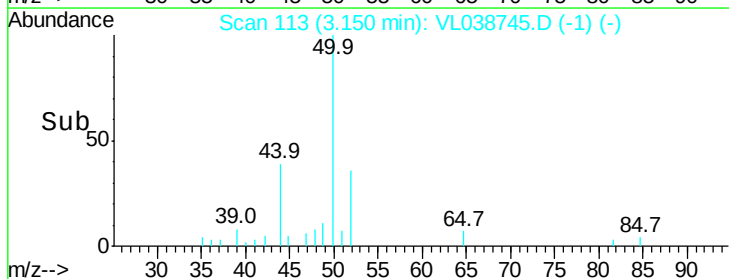
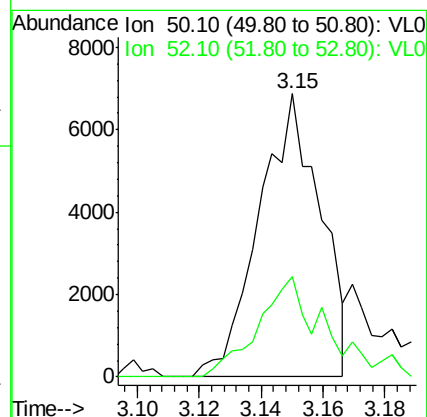
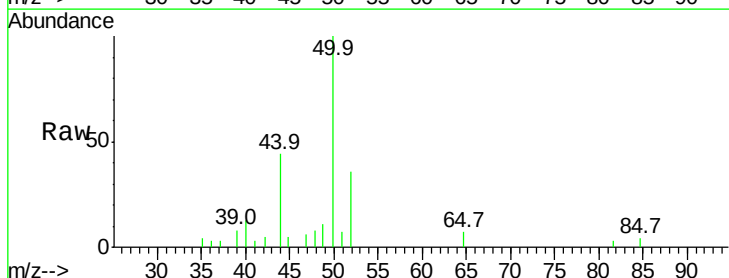
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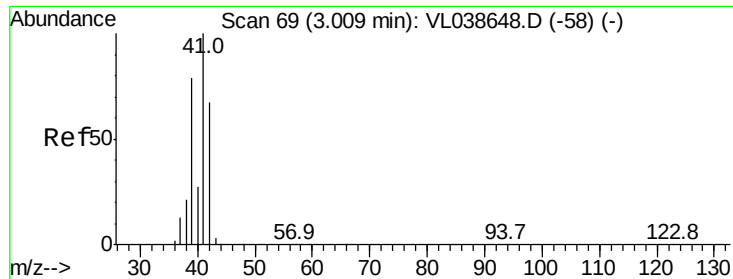
Tgt Ion: 50 Resp: 9448

Ion Ratio Lower Upper

50 100

52 35.5 25.5 38.3





#9

Propene

Concen: 1.17 ppbv

RT: 3.02 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 24 Mar 2022 10:49 COP96

Tgt Ion:

Ion Ratio

41 100

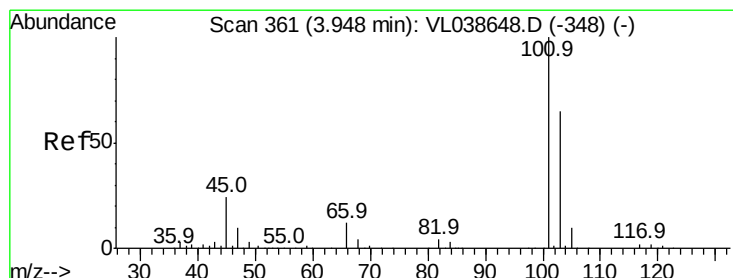
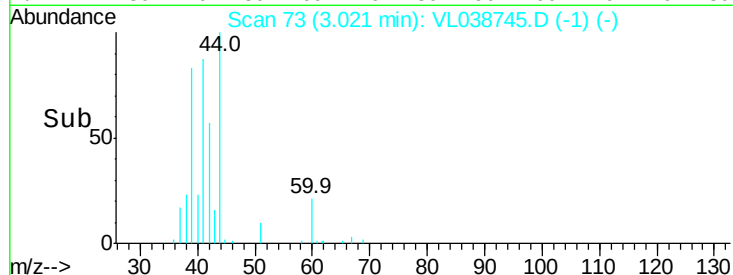
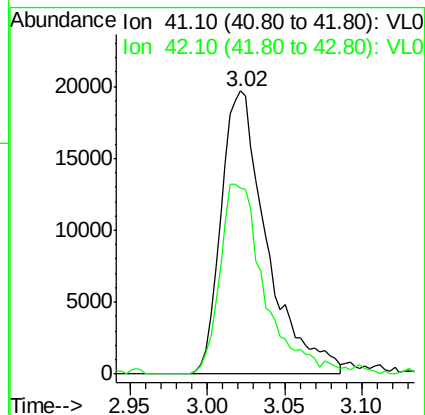
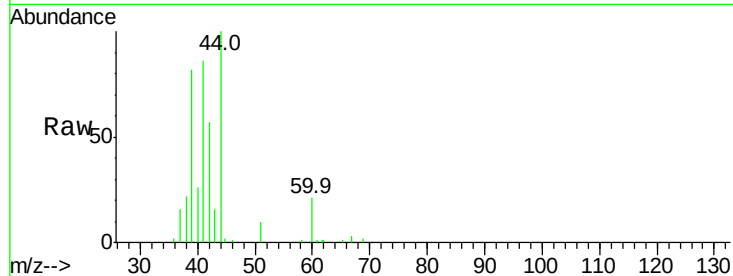
42 66.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 03/25/2022

Supervised By :Mahesh Dadoda 03/28/2022



#11

Trichlorofluoromethane

Concen: 0.31 ppbv

RT: 3.96 min Scan# 364

Delta R.T. 0.01 min

Lab File: VL038745.D

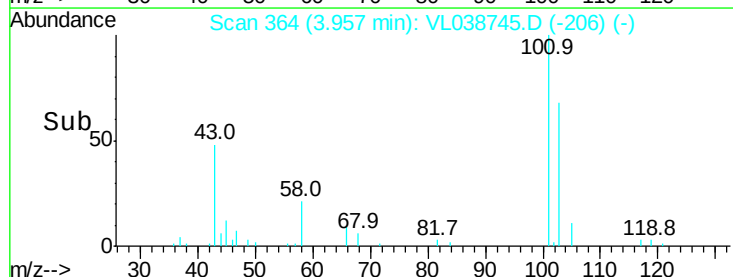
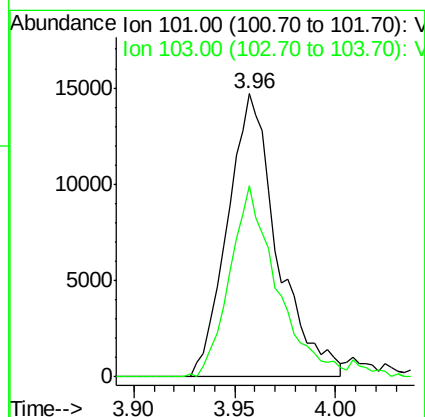
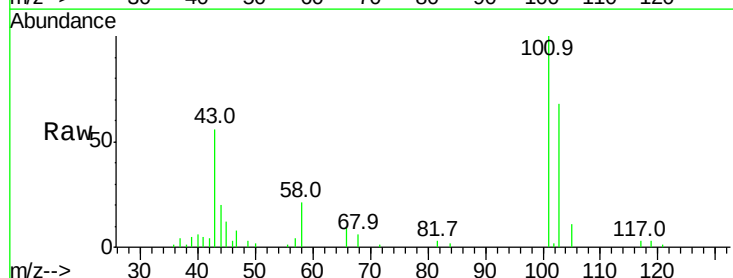
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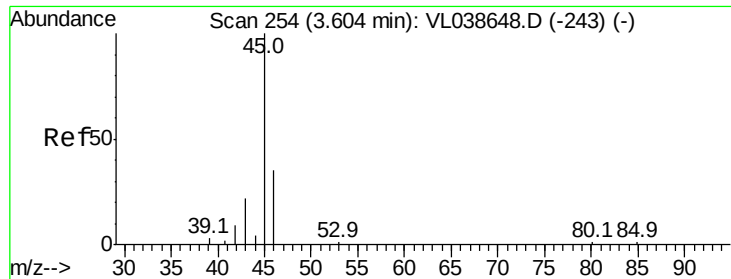
Tgt Ion:101 Resp: 25336

Ion Ratio Lower Upper

101 100

103 66.6 51.9 77.9



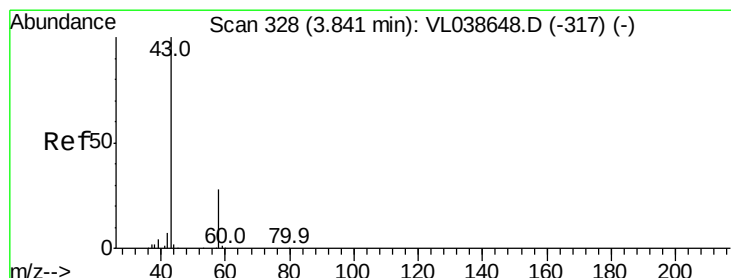
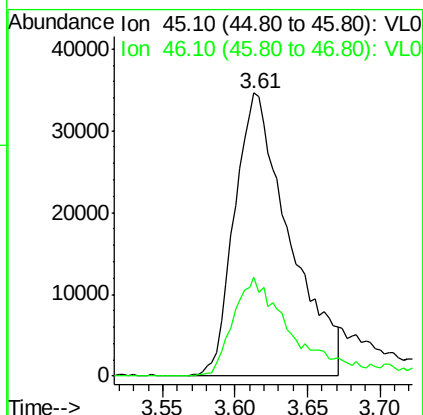
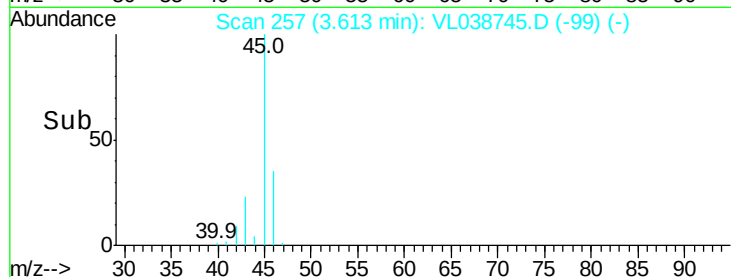
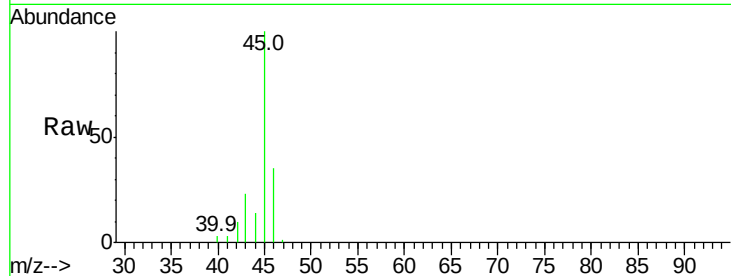


#13
Ethanol
Concen: 23.81 ppbv
RT: 3.61 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
COP96
Acq: 24 Mar 2022 10:49

Tgt Ion:
Ion Ratio
45 100
46 38.

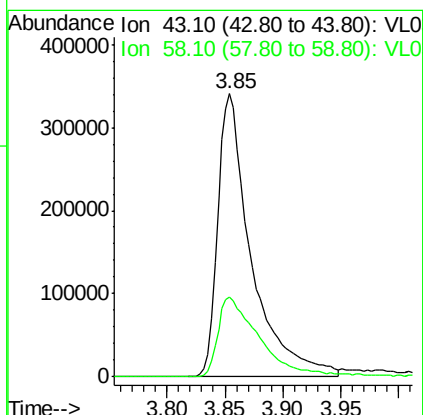
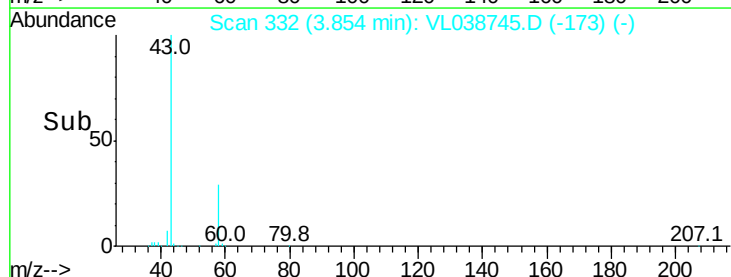
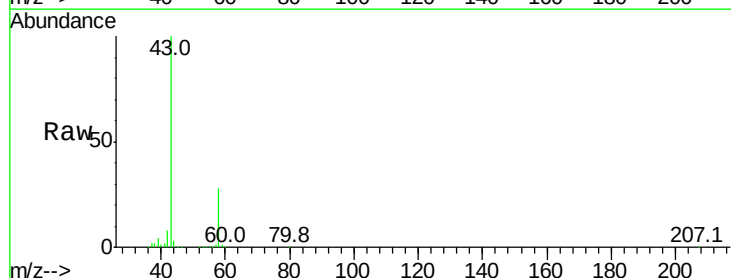
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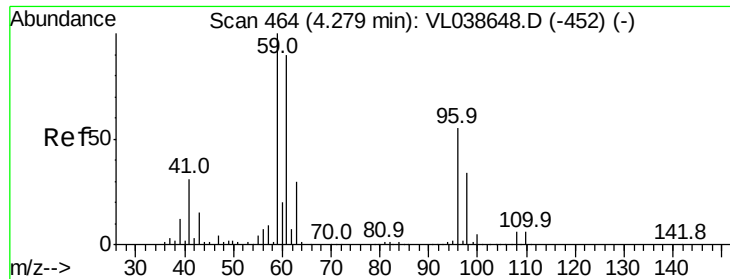
Reviewed By :Semsettin Yesilyurt 03/25/2022
Supervised By :Mahesh Dadoda 03/28/2022



#15
Acetone
Concen: 11.65 ppbv
RT: 3.85 min Scan# 332
Delta R.T.: 0.01 min
Lab File: VL038745.D
Acq: 24 Mar 2022 10:49

Tgt Ion: 43 Resp: 683936
Ion Ratio Lower Upper
43 100
58 36.5 23.3 34.9#



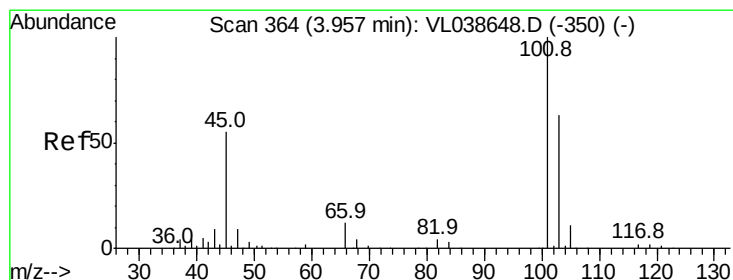
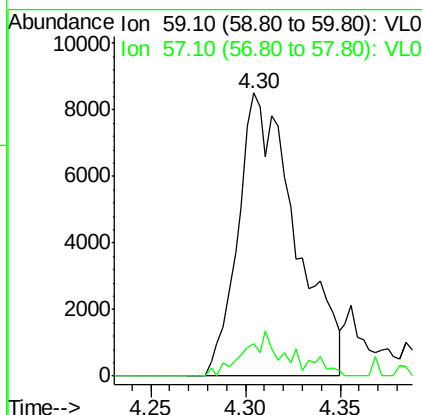
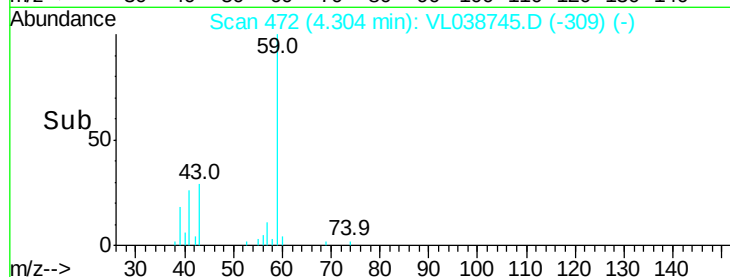
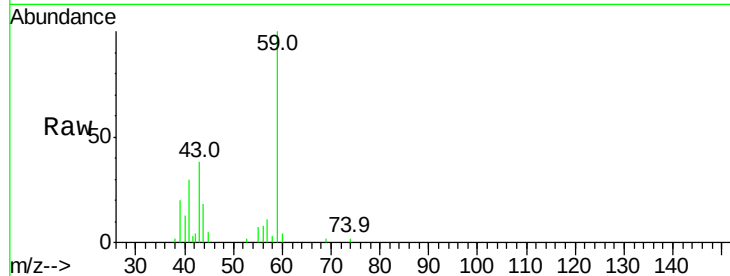


#17
tert-Butyl alcohol
Concen: 0.35 ppbv m
RT: 4.30
Instrument: MSVOA_L
Delta R.T.:
Lab File: ClientSampleId :
COP96
Acq: 24 Mar 2022 10:49

Tgt Ion:
Ion Ratio
59 100
57 0.

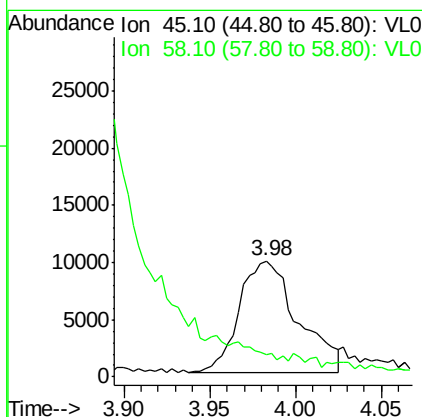
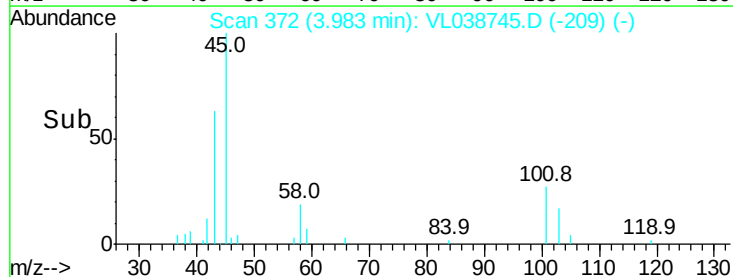
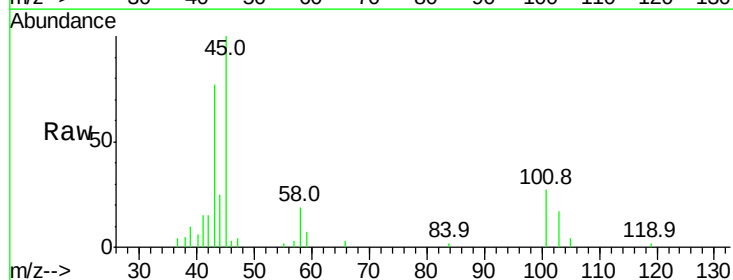
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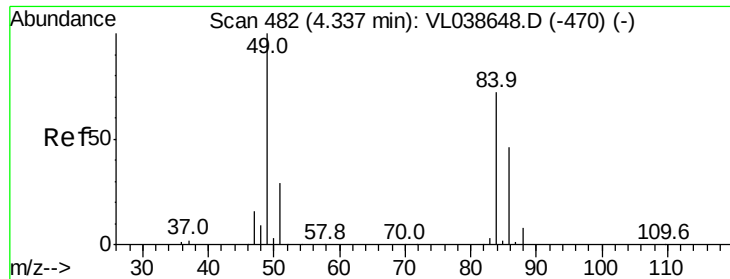
Reviewed By :Semsettin Yesilyurt 03/25/2022
Supervised By :Mahesh Dadoda 03/28/2022



#19
Isopropyl Alcohol
Concen: 0.71 ppbv
RT: 3.98 min Scan# 372
Delta R.T. 0.03 min
Lab File: VL038745.D
Acq: 24 Mar 2022 10:49

Tgt Ion: 45 Resp: 22992
Ion Ratio Lower Upper
45 100
58 1086.9 2.3 3.5#



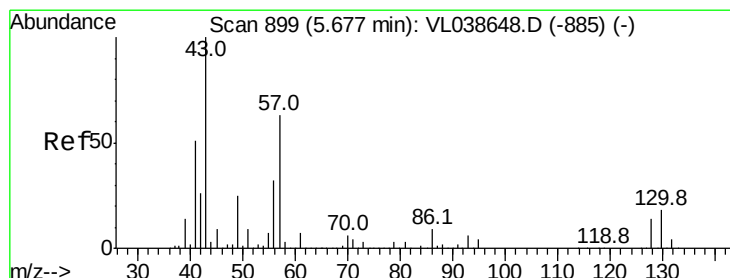
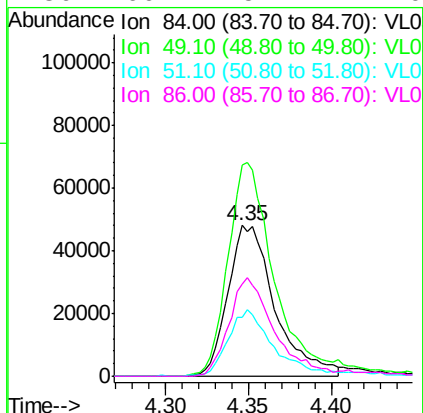
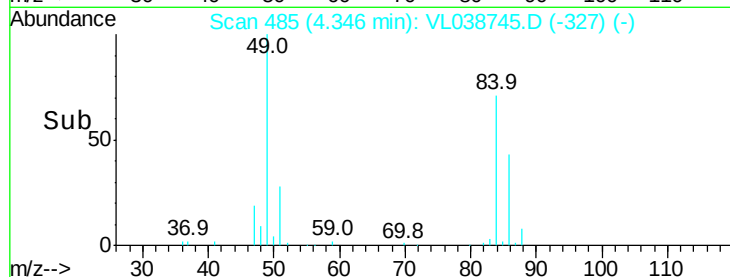
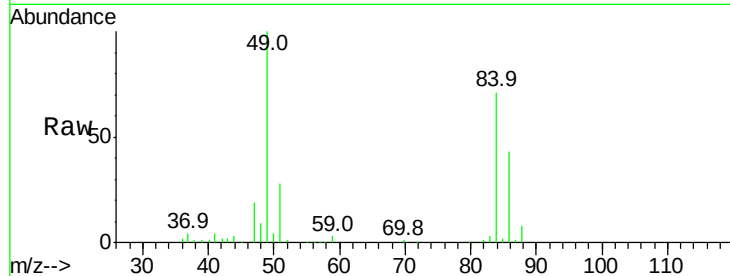


#20
Methylene Chloride
Concen: 3.84 ppbv
RT: 4.35
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
COP96
Acq: 24 Mar 2022 10:49

Tgt Ion:
Ion Ratio
84 100
49 140.
51 38.
86 60.7 51.4 77.0

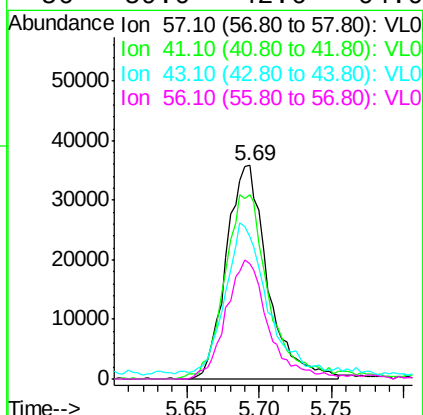
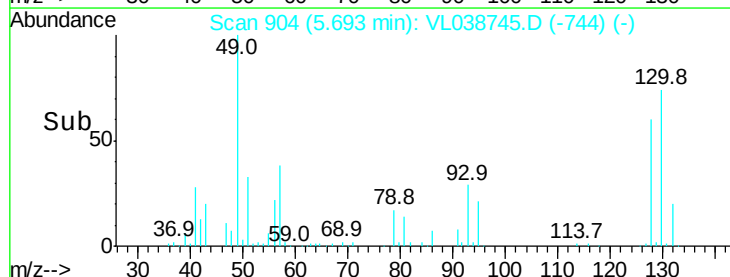
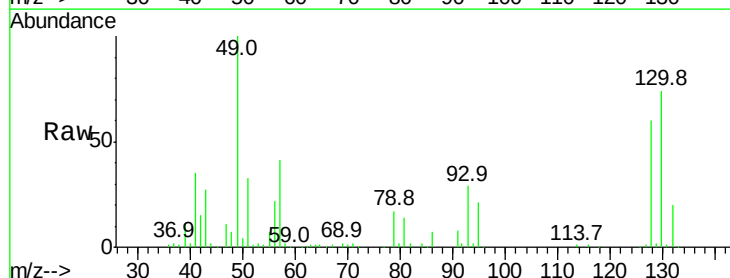
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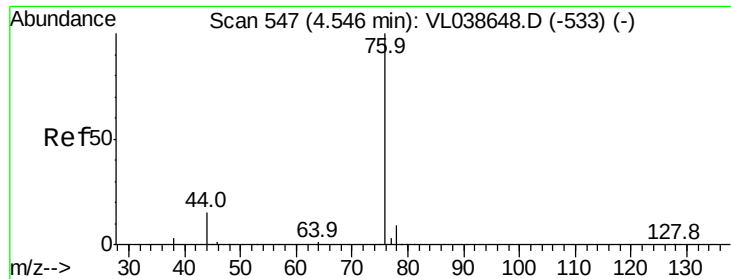
Reviewed By :Semsettin Yesilyurt 03/25/2022
Supervised By :Mahesh Dadoda 03/28/2022



#26
Hexane
Concen: 1.07 ppbv
RT: 5.69 min Scan# 904
Delta R.T. 0.02 min
Lab File: VL038745.D
Acq: 24 Mar 2022 10:49

Tgt Ion: 57 Resp: 70786
Ion Ratio Lower Upper
57 100
41 95.1 67.0 100.4
43 71.0 184.2 276.2#
56 59.0 42.6 64.0





#27

Carbon Disulfide

Concen: 0.19 ppbv

RT: 4.56 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 24 Mar 2022 10:49 C0P96

Tgt Ion:

Ion Ratio

76 100

44 30.

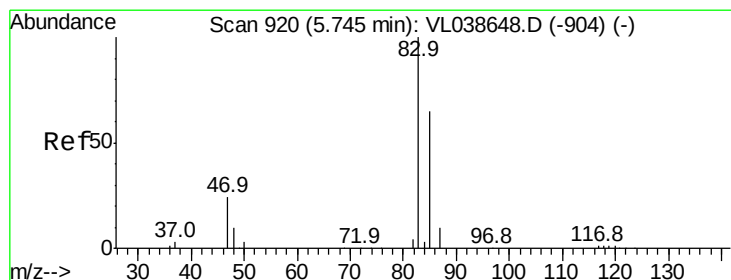
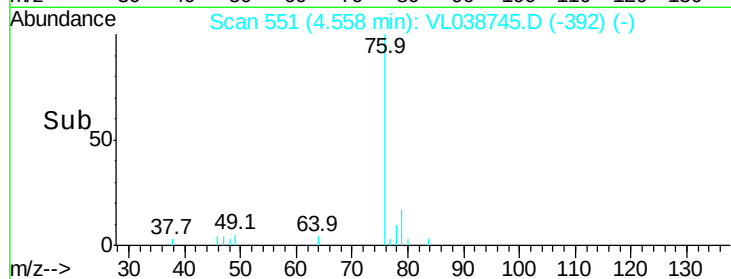
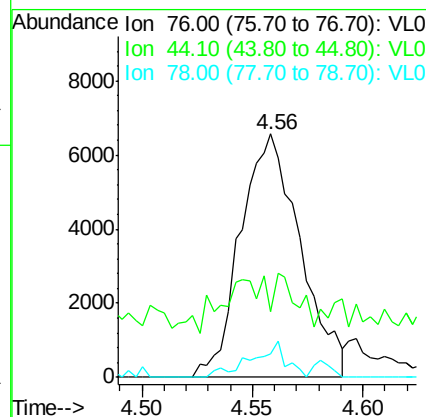
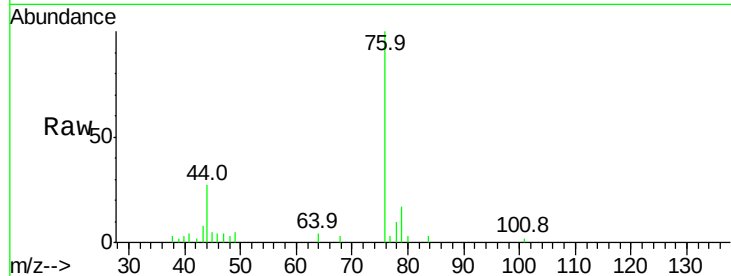
78 10.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 03/25/2022

Supervised By :Mahesh Dadoda 03/28/2022



#29

Chloroform

Concen: 0.51 ppbv

RT: 5.75 min Scan# 922

Delta R.T. 0.01 min

Lab File: VL038745.D

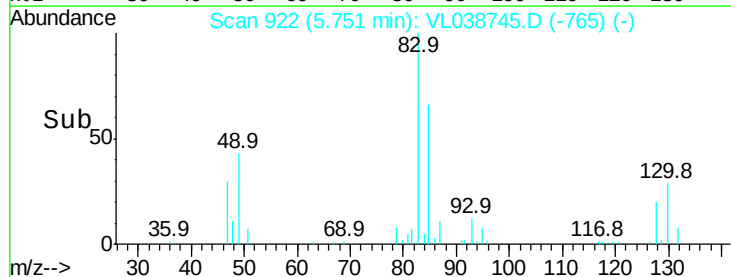
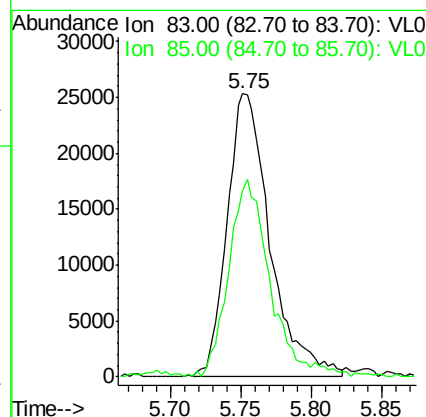
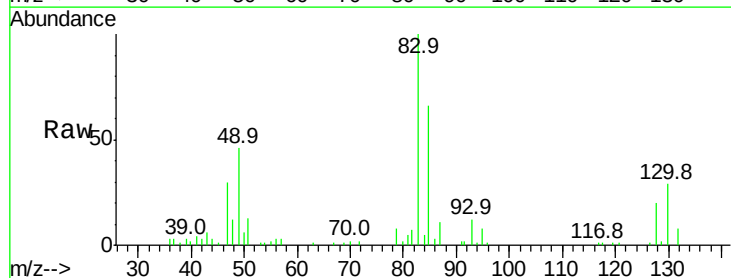
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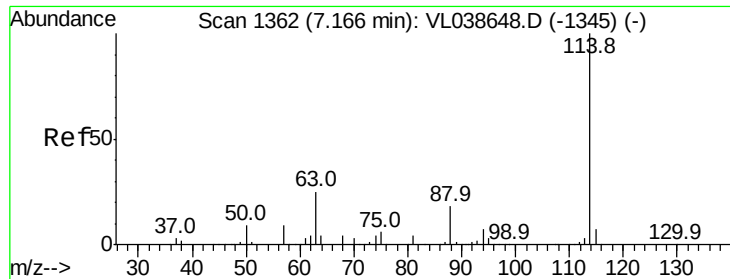
Tgt Ion: 83 Resp: 54072

Ion Ratio Lower Upper

83 100

85 65.9 51.7 77.5



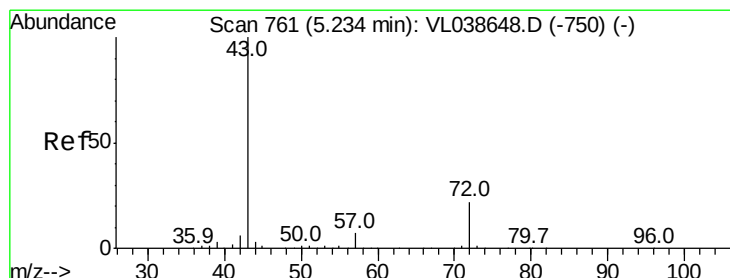
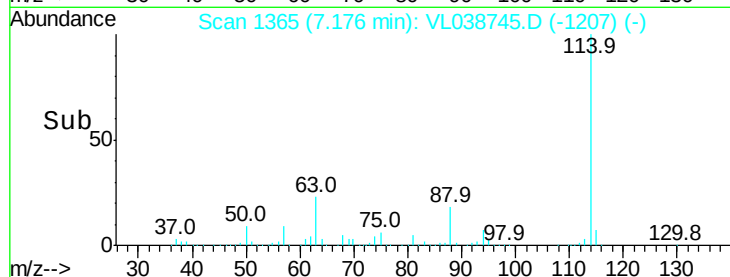
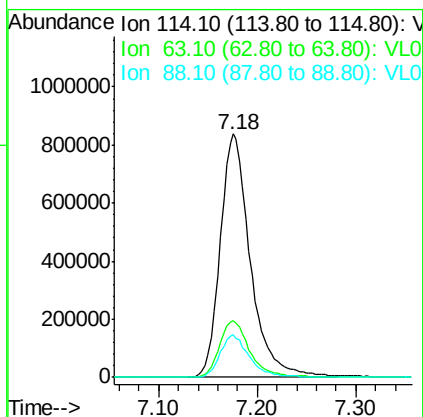
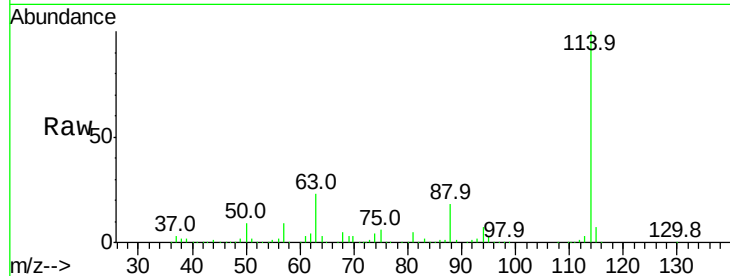


#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 7.18
 Instrument: MSVOA_L
 Delta R.T.:
 Lab File: ClientSampleId :
 Acq: 24 Mar 2022 10:49

Tgt Ion: 114.10
 Ion Ratio: 100
 114 100
 63 23.8
 88 17.8

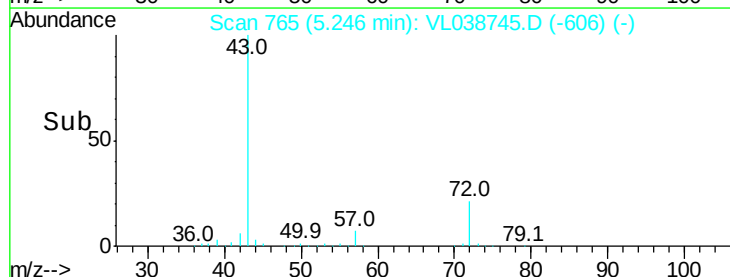
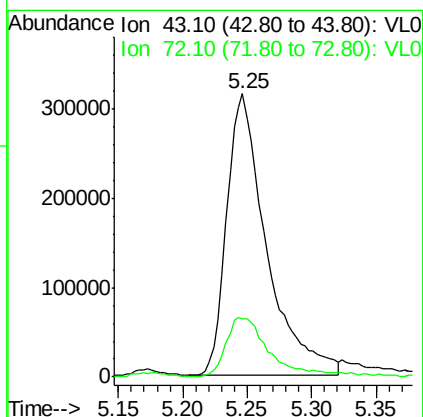
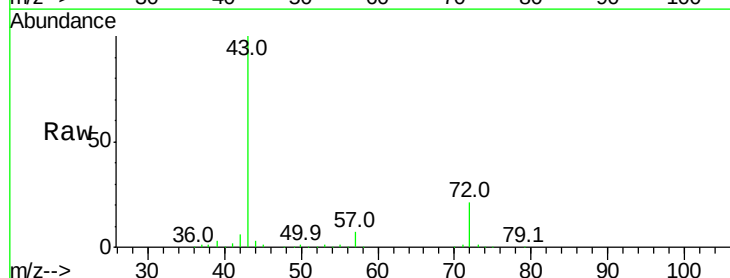
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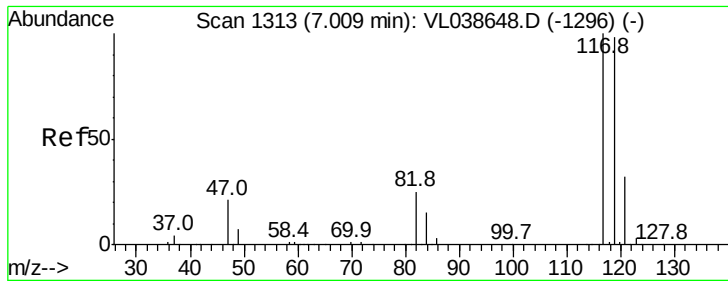
Reviewed By : Semsettin Yesilyurt 03/25/2022
 Supervised By : Mahesh Dadoda 03/28/2022



#34
 2-Butanone
 Concen: 9.55 ppbv
 RT: 5.25 min Scan# 765
 Delta R.T.: 0.01 min
 Lab File: VL038745.D
 Acq: 24 Mar 2022 10:49

Tgt Ion: 43 Resp: 677944
 Ion Ratio Lower Upper
 43 100
 72 23.8 17.8 26.8





#35

Carbon Tetrachloride

Concen: 0.06 ppbv m

RT: 7.02 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 24 Mar 2022 10:49 COP96

Tgt Ion:1

Ion Rati

117 100

119 95.

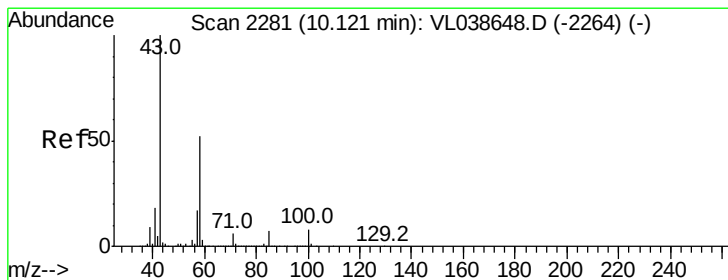
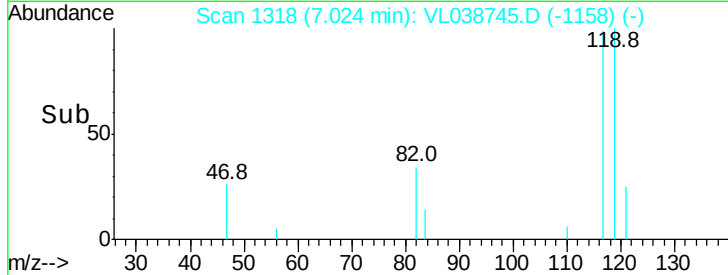
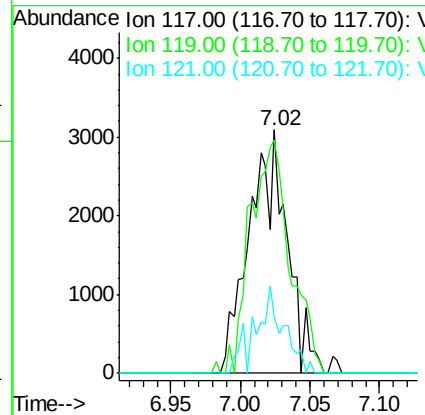
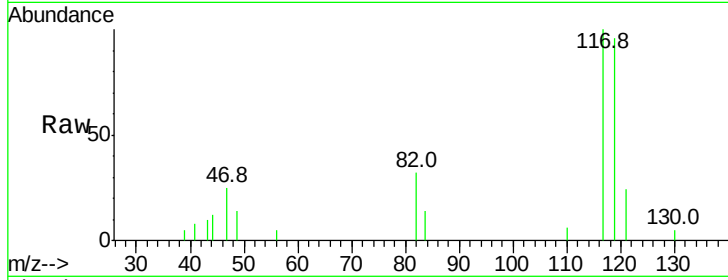
121 23.

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Reviewed By :Semsettin Yesilyurt 03/25/2022

Supervised By :Mahesh Dadoda 03/28/2022



#51

2-Hexanone

Concen: 0.44 ppbv

RT: 10.15 min Scan# 2289

Delta R.T. 0.03 min

Lab File: VL038745.D

Acq: 24 Mar 2022 10:49

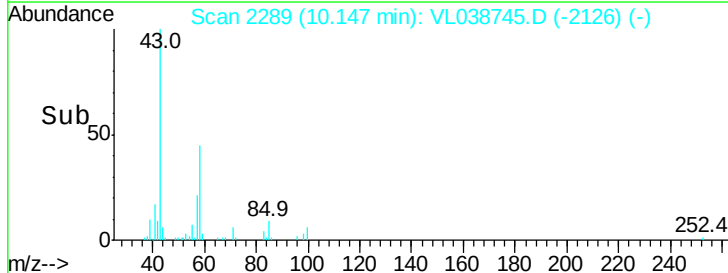
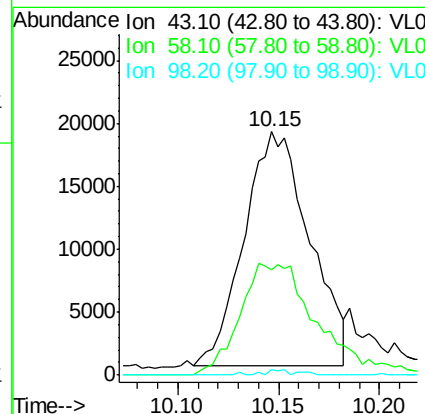
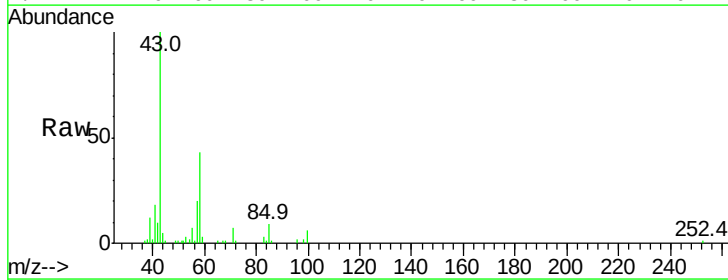
Tgt Ion: 43 Resp: 41953

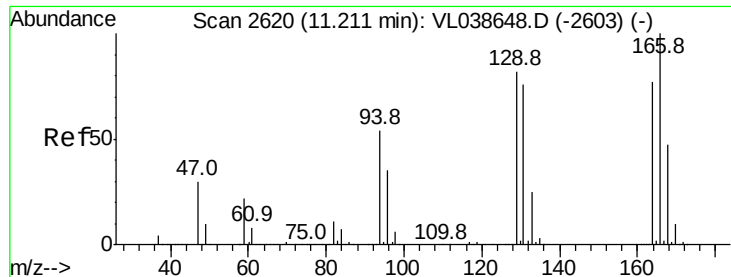
Ion Ratio Lower Upper

43 100

58 58.1 41.2 61.8

98 1.1 0.2 0.4#



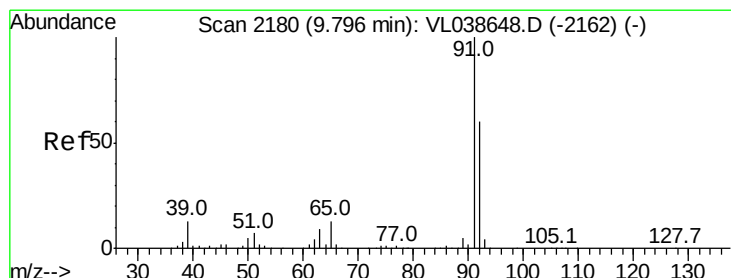
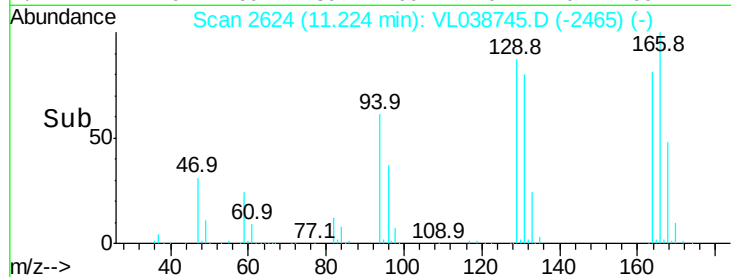
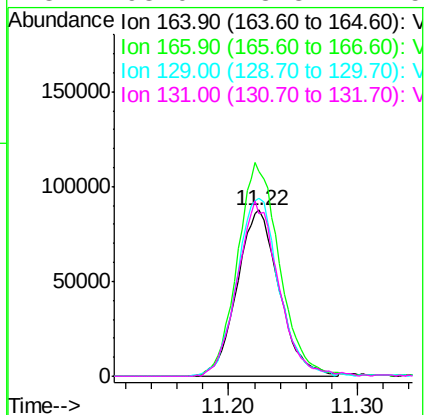
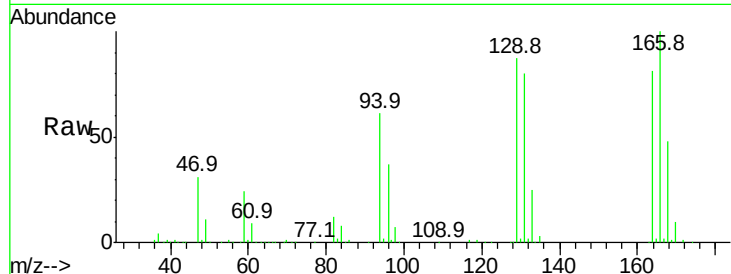


#52
Tetrachloroethene
Concen: 3.91 ppbv
RT: 11.22
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
COP96
Acq: 24 Mar 2022 10:49

Tgt Ion: 1
Ion Ratio
164 100
166 123.
129 106.
131 98.0 78.3 117.5

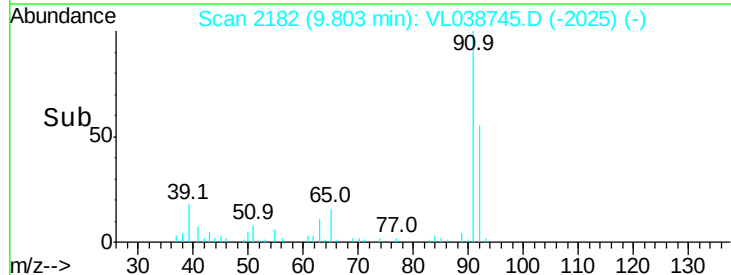
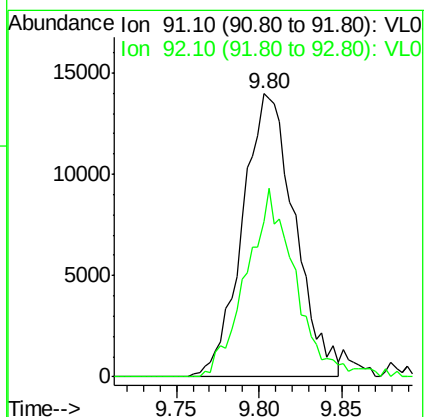
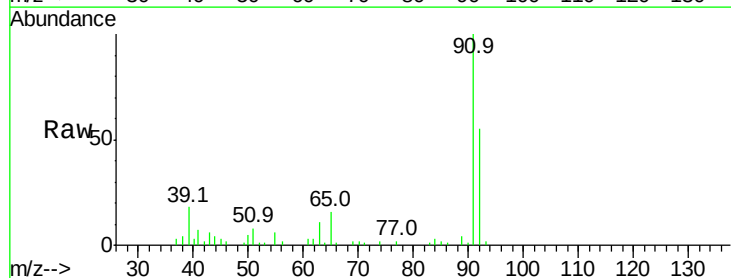
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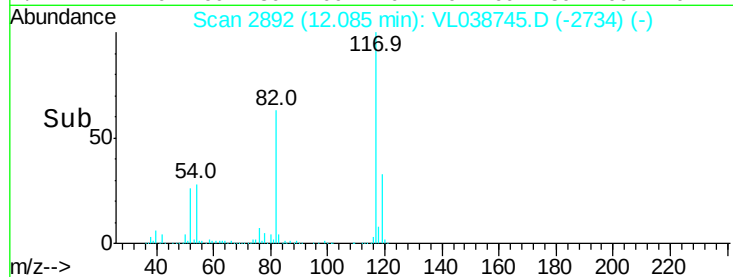
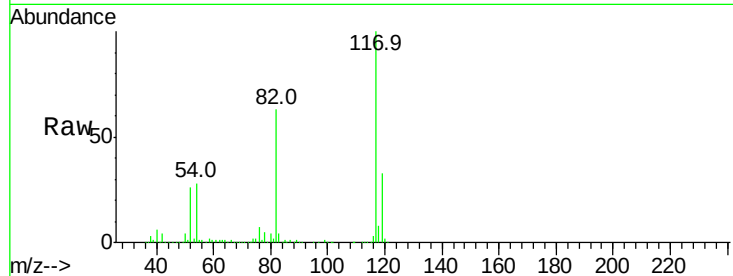
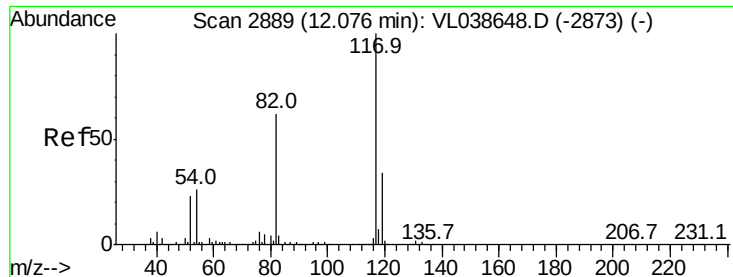
Reviewed By :Semsettin Yesilyurt 03/25/2022
Supervised By :Mahesh Dadoda 03/28/2022



#53
Toluene
Concen: 0.21 ppbv
RT: 9.80 min Scan# 2182
Delta R.T. 0.01 min
Lab File: VL038745.D
Acq: 24 Mar 2022 10:49

Tgt Ion: 91 Resp: 30648
Ion Ratio Lower Upper
91 100
92 63.6 48.7 73.1



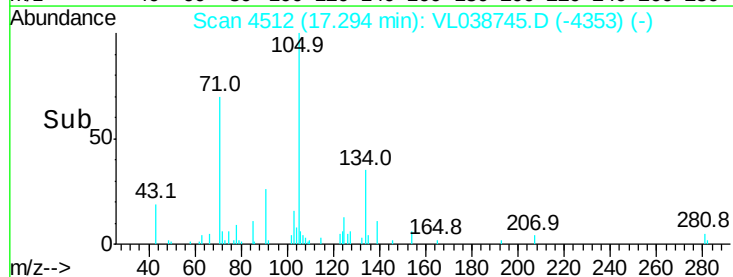
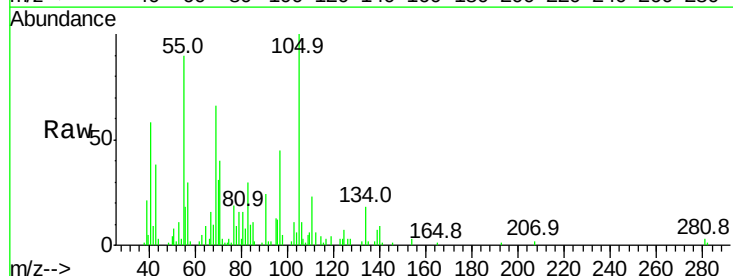
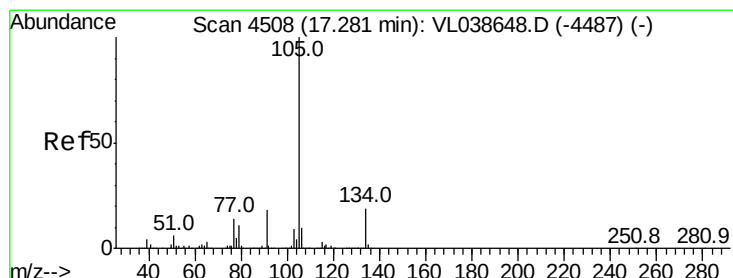
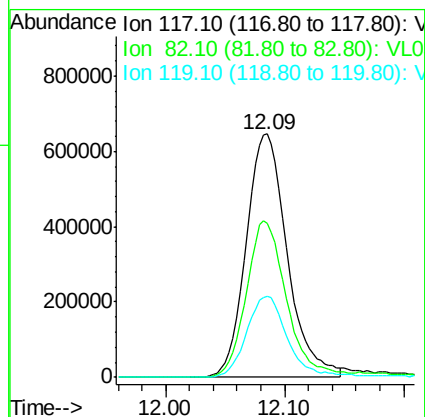


#55
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 12.09
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
COP96
Acq: 24 Mar 2022 10:49

Tgt Ion:1
Ion Rati
117 100
82 66.
119 34.

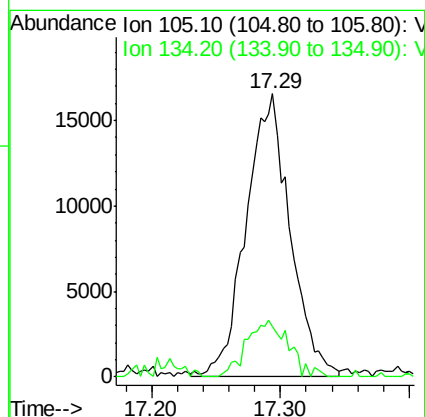
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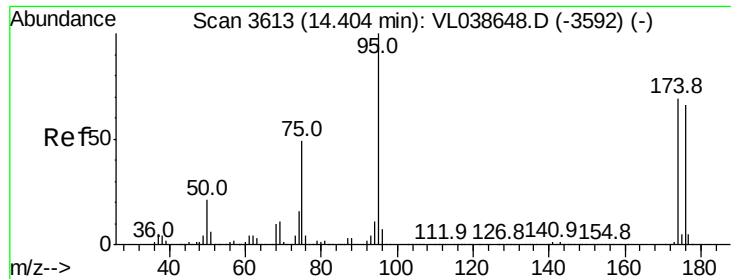
Reviewed By :Semsettin Yesilyurt 03/25/2022
Supervised By :Mahesh Dadoda 03/28/2022



#67
sec-Butylbenzene
Concen: 0.14 ppbv m
RT: 17.29 min Scan# 4512
Delta R.T. 0.01 min
Lab File: VL038745.D
Acq: 24 Mar 2022 10:49

Tgt Ion:105 Resp: 39336
Ion Ratio Lower Upper
105 100
134 32.8 15.1 22.7#





#68

1-Bromo-4-Fluorobenzene

Concen: 9.57 ppbv

RT: 14.41

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 24 Mar 2022 10:49

Tgt Ion:

Ion Ratio

95 100

174 73.

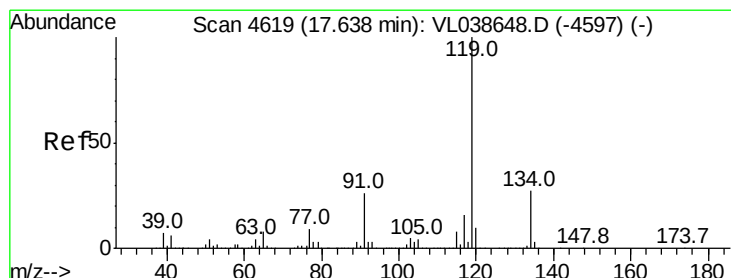
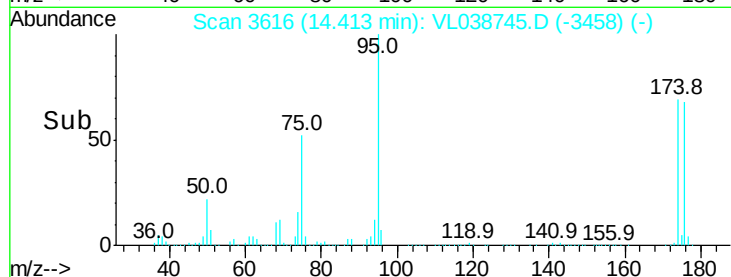
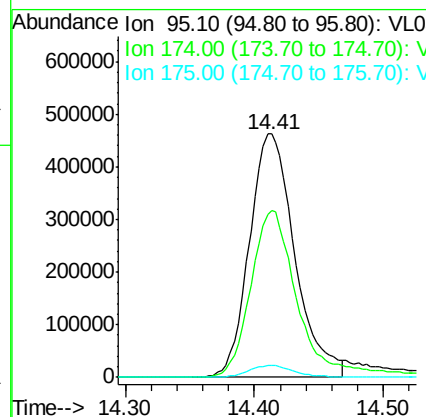
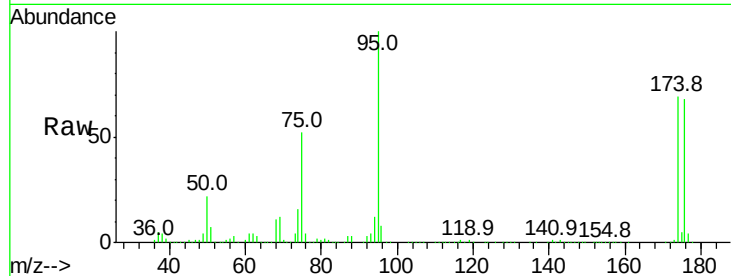
175 5.

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Reviewed By :Semsettin Yesilyurt 03/25/2022

Supervised By :Mahesh Dadoda 03/28/2022



#69

p-Isopropyltoluene

Concen: 0.24 ppbv m

RT: 17.65 min Scan# 4624

Delta R.T. 0.02 min

Lab File: VL038745.D

Acq: 24 Mar 2022 10:49

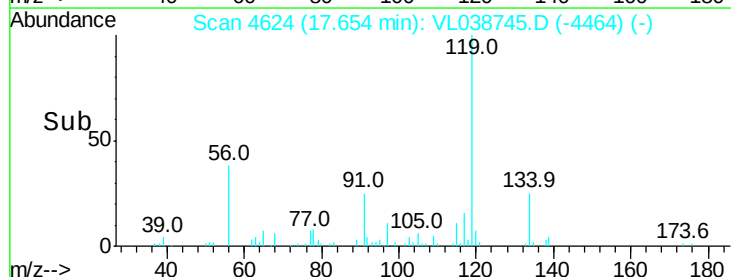
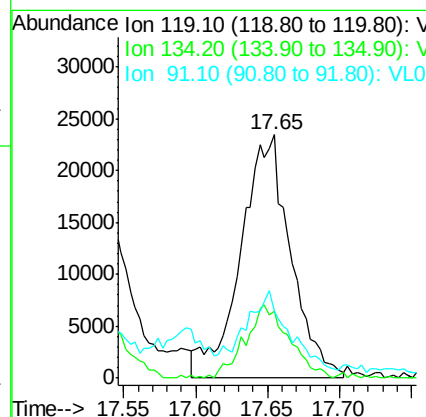
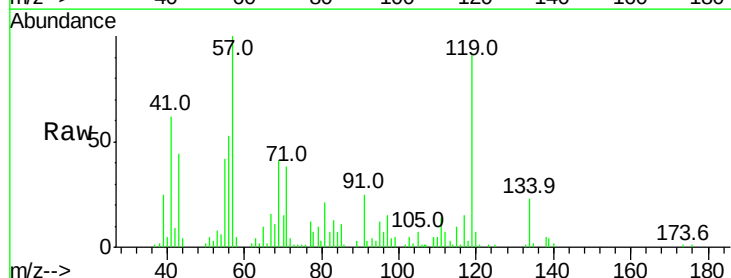
Tgt Ion:119 Resp: 56655

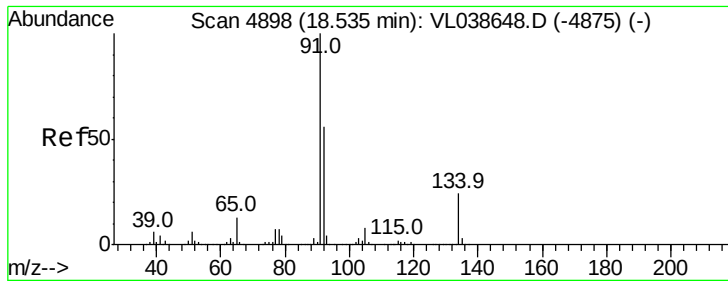
Ion Ratio Lower Upper

119 100

134 27.4 21.2 31.8

91 36.2 21.4 32.2#



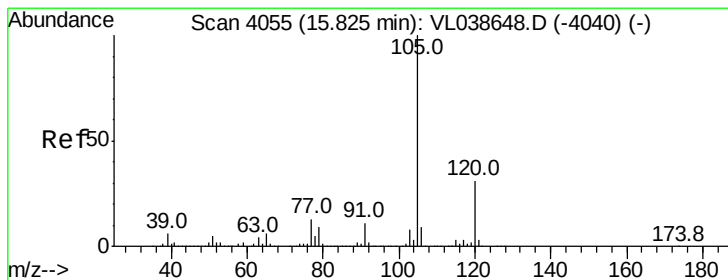
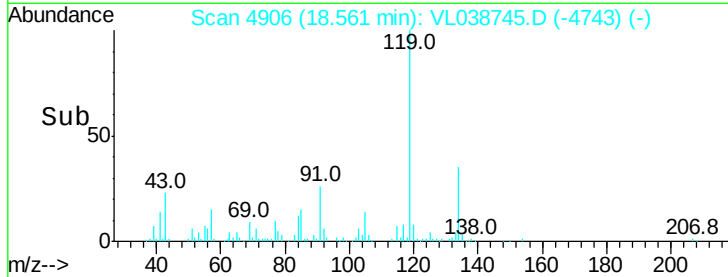
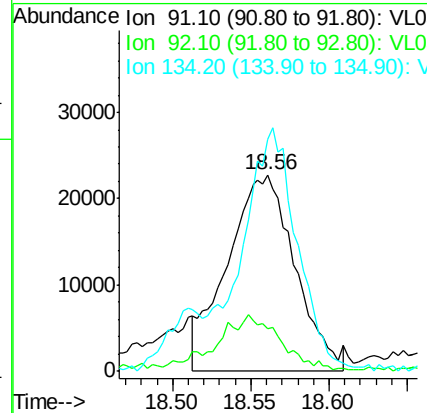
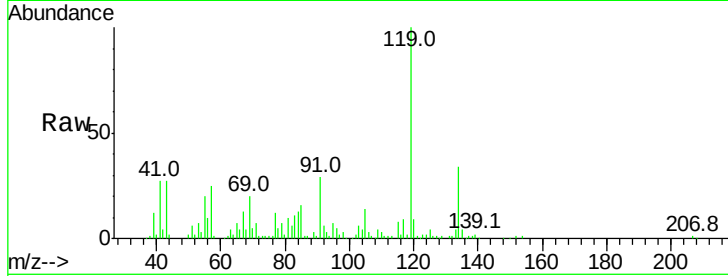


#70
n-Butylbenzene
Concen: 0.28 ppbv m
RT: 18.56
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 24 Mar 2022 10:49

Tgt Ion:
Ion Ratio
91 100
92 27.
134 0.

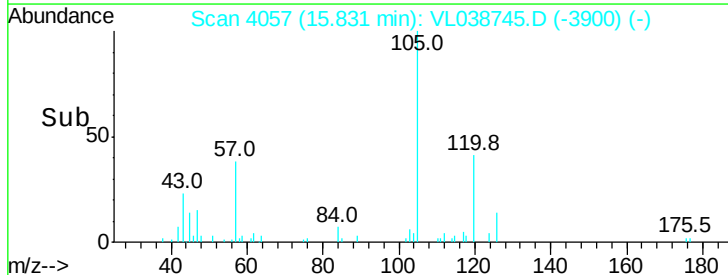
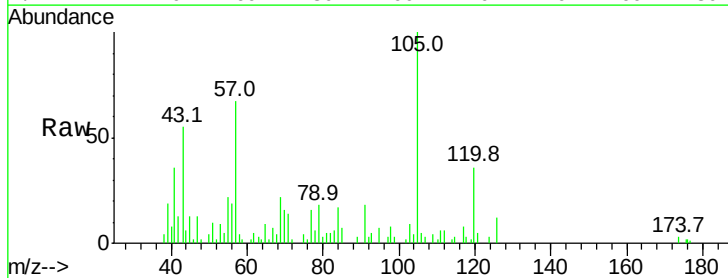
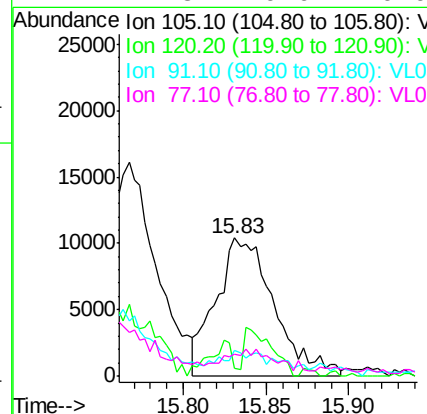
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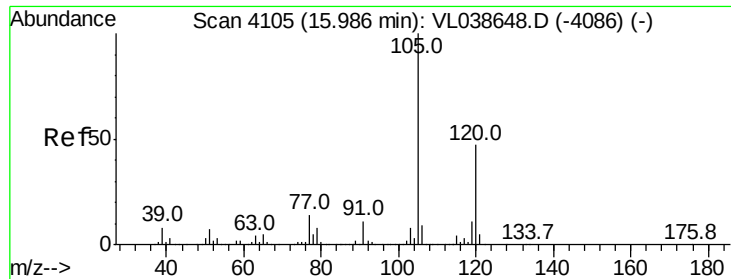
Reviewed By :Semsettin Yesilyurt 03/25/2022
Supervised By :Mahesh Dadoda 03/28/2022



#72
4-Ethyltoluene
Concen: 0.14 ppbv m
RT: 15.83 min Scan# 4057
Delta R.T. 0.01 min
Lab File: VL038745.D
Acq: 24 Mar 2022 10:49

Tgt Ion:105 Resp: 25488
Ion Ratio Lower Upper
105 100
120 27.1 24.9 37.3
91 0.0 9.8 14.6#
77 21.3 10.6 16.0#





#73

1,3,5-Trimethylbenzene

Concen: 0.29 ppbv m

RT: 15.99

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 24 Mar 2022 10:49

Tgt Ion:1

Ion Rati

105 100

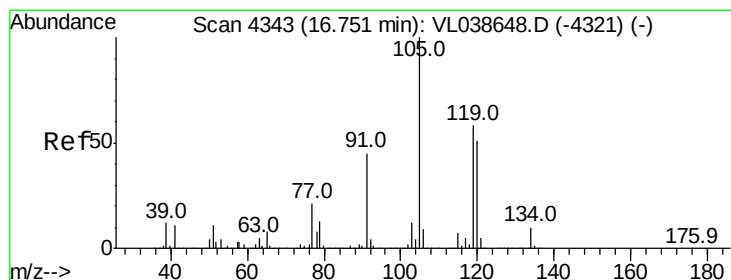
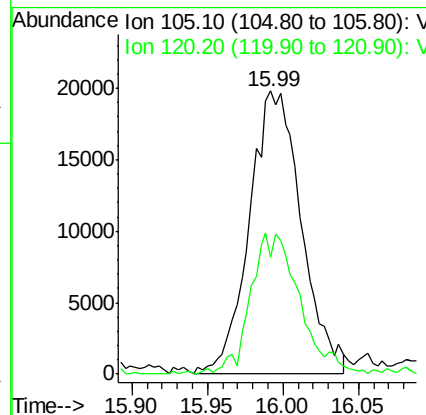
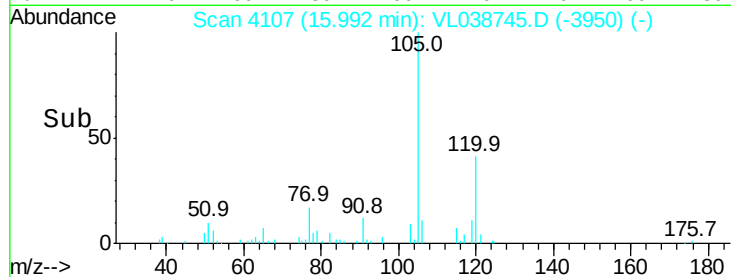
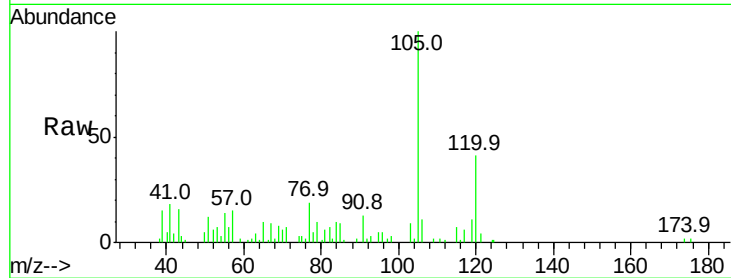
120 41.

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Reviewed By :Semsettin Yesilyurt 03/25/2022

Supervised By :Mahesh Dadoda 03/28/2022



#74

1,2,4-Trimethylbenzene

Concen: 0.32 ppbv

RT: 16.76 min Scan# 4345

Delta R.T. 0.01 min

Lab File: VL038745.D

Acq: 24 Mar 2022 10:49

Tgt Ion:105 Resp: 57020

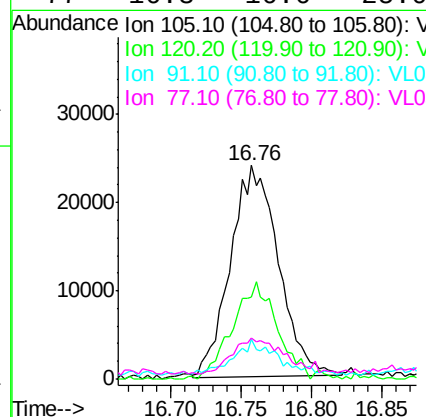
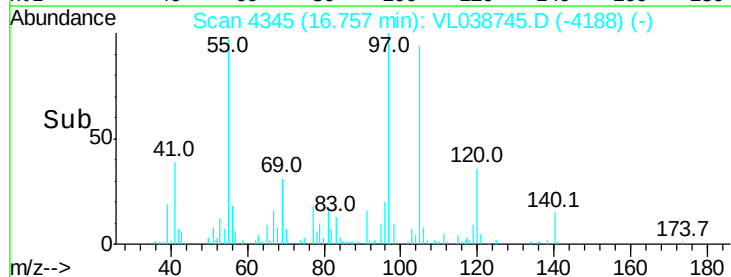
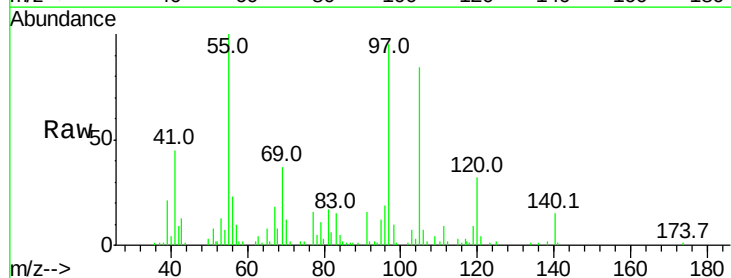
Ion Ratio Lower Upper

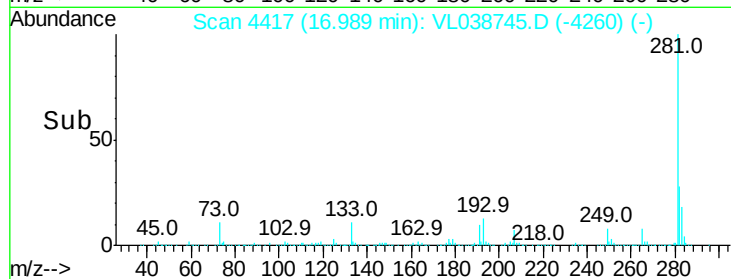
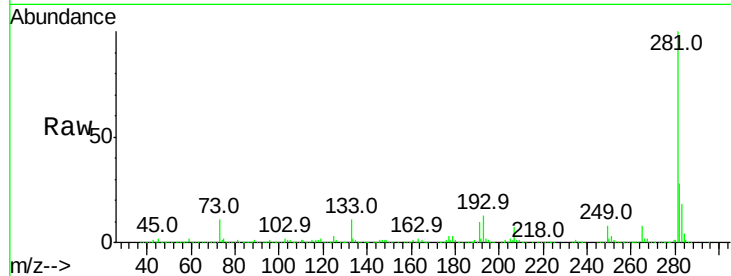
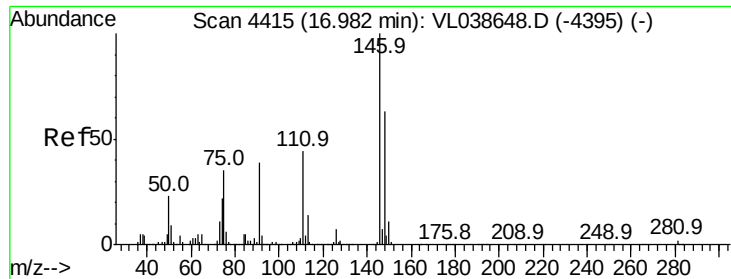
105 100

120 38.9 40.5 60.7#

91 16.8 35.9 53.9#

77 16.3 16.6 25.0#





#75

1,3-Dichlorobenzene

Concen: 0.25 ppbv m

RT: 16.99

Delta R.T

Lab File:

Acq: 24 Mar 2022 10:49

Instrument : MSVOA_L

ClientSampleId :

COP96

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Reviewed By :Semsettin Yesilyurt 03/25/2022

Supervised By :Mahesh Dadoda 03/28/2022

Tgt Ion:1

Ion Rati

146 100

111 0.

148 0.

