

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL032322\
 Data File : VL038736.D
 Acq On : 24 Mar 2022 4:28
 Operator : SY/AP
 Sample : N2051-01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 C0P91

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 03/24/2022
 Supervised By : Mahesh Dadoda 03/28/2022

Quant Time: Mar 27 16:26:42 2022
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL032122A
 Quant Title : AIR ANALYSIS BY METHOD TO-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	719184	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	1923050	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.08	117	1789507	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.41	95	1259062	9.18	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	91.80%

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.05	85	24107	0.25	ppbv	97
3) Chlorodifluoromethane	2.99	51	23209	0.31	ppbv	96
4) Chloromethane	3.14	50	7348m	0.18	ppbv	
9) Propene	3.02	41	52363	1.43	ppbv	97
11) Trichlorofluoromethane	3.96	101	24047	0.28	ppbv	91
13) Ethanol	3.60	45	115814	28.63	ppbv	93
15) Acetone	3.85	43	1275941	20.56	ppbv #	88
17) tert-Butyl alcohol	4.30	59	35845	0.66	ppbv #	91
19) Isopropyl Alcohol	3.97	45	32105	0.93	ppbv #	91
20) Methylene Chloride	4.35	84	123958	4.74	ppbv	94
26) Hexane	5.69	57	89834	1.28	ppbv #	42
27) Carbon Disulfide	4.55	76	14550	0.21	ppbv #	93
29) Chloroform	5.75	83	1877789	16.77	ppbv	99
32) 1,1,1-Trichloroethane	6.51	97	4931m	0.05	ppbv	
34) 2-Butanone	5.24	43	1345491	17.68	ppbv	100
35) Carbon Tetrachloride	7.02	117	4449m	0.04	ppbv	
36) Benzene	6.89	78	21603	0.15	ppbv	98
38) Trichloroethene	7.83	130	2263m	0.04	ppbv	
51) 2-Hexanone	10.13	43	147442	1.45	ppbv #	97
52) Tetrachloroethene	11.22	164	745497	13.73	ppbv	97
53) Toluene	9.81	91	74130	0.46	ppbv	99
59) m/p-Xylene	12.96	91	33511m	0.18	ppbv	

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

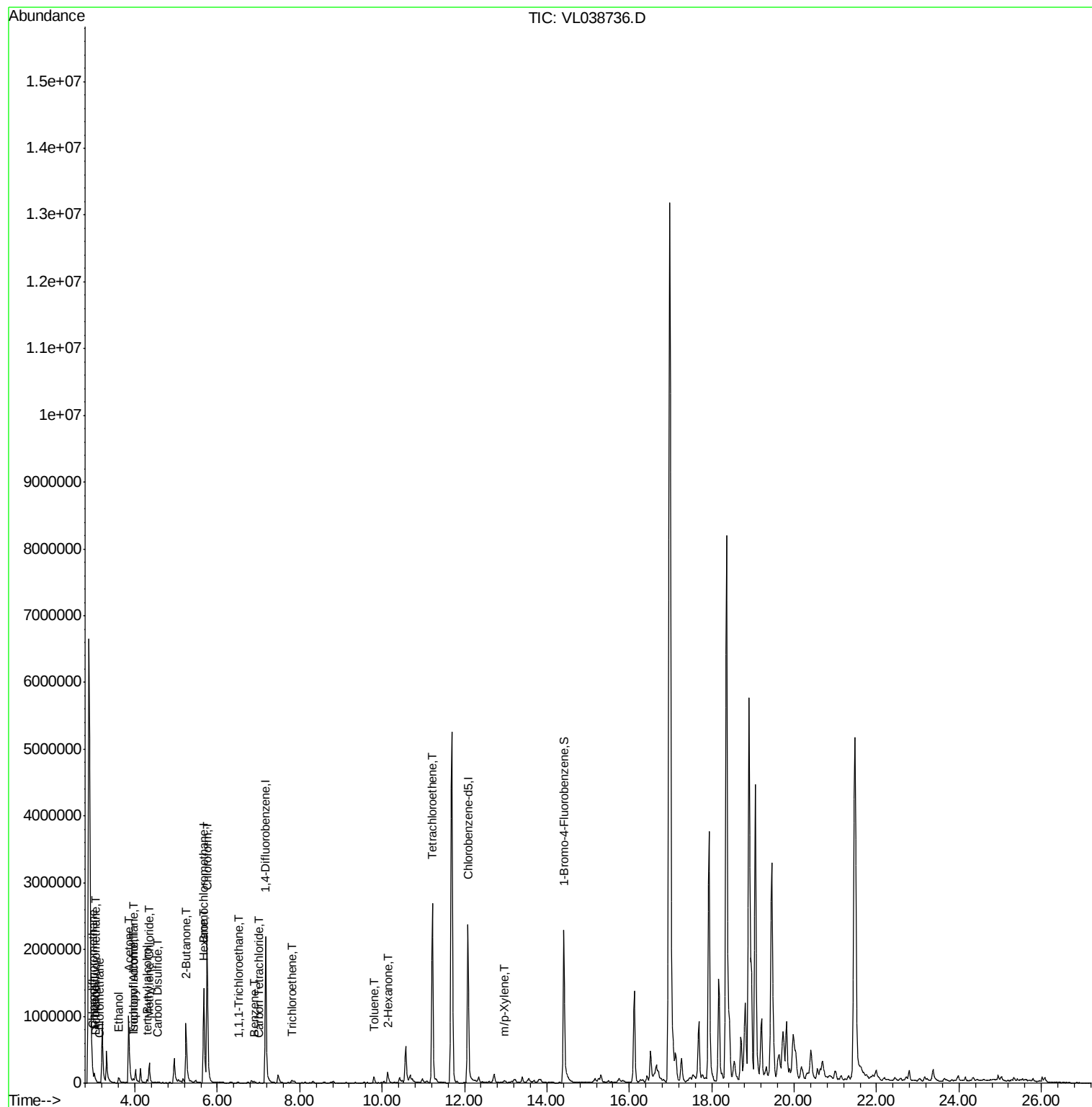
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_L\DATA\VL032322\
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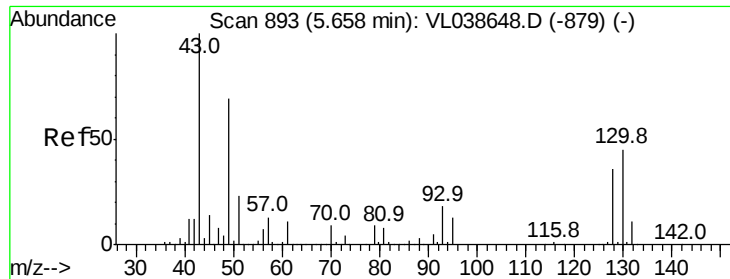
Instrument :
MSVOA_L
ClientSampleId :
C0P91

Manual Integrations
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Quant Time: Mar 27 16:26:42 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 03/24/2022
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 4:28

Tgt Ion:

Ion Ratio

49 100

128 56.

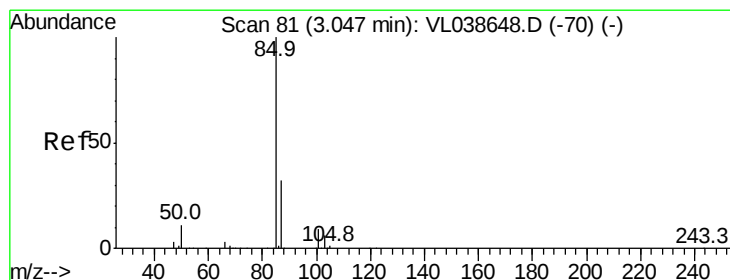
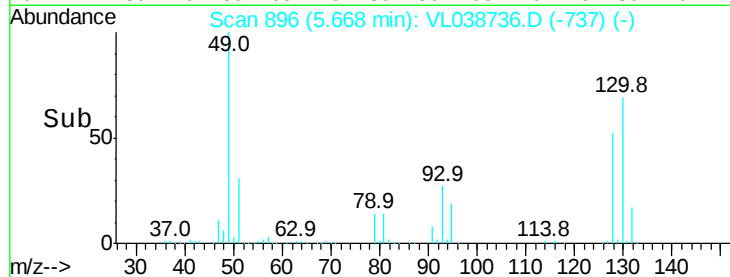
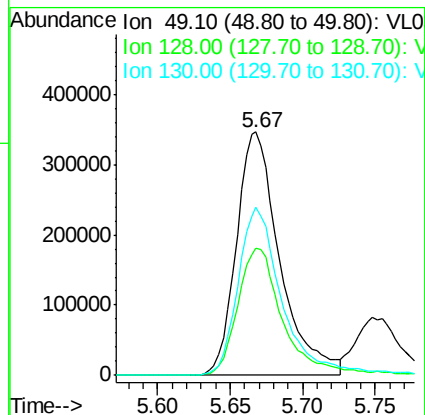
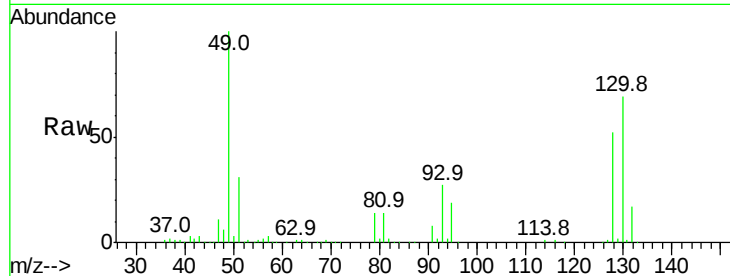
130 72.

Manual Integrations

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Supervised By :Mahesh Dadoda 03/28/2022



#2

Dichlorodifluoromethane

Concen: 0.25 ppbv

RT: 3.05 min Scan# 83

Delta R.T. 0.01 min

Lab File: VL038736.D

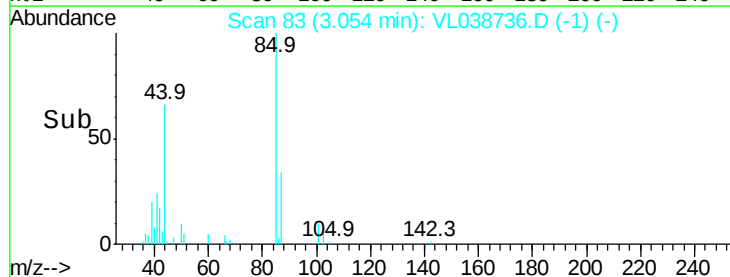
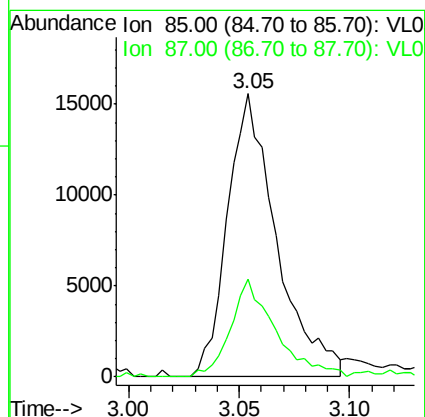
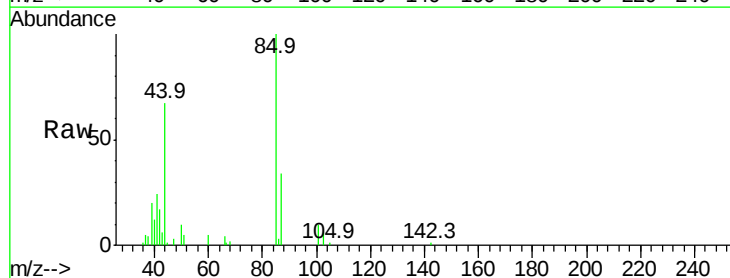
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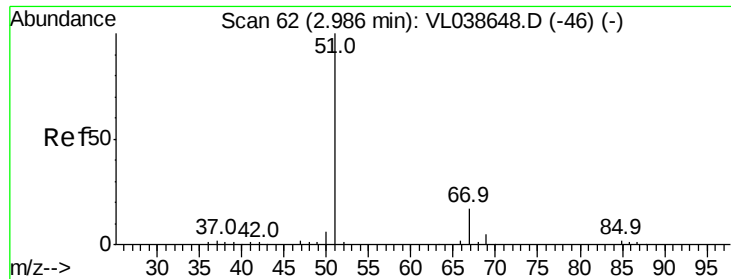
Tgt Ion: 85 Resp: 24107

Ion Ratio Lower Upper

85 100

87 34.3 26.0 39.0





#3

Chlorodifluoromethane

Concen: 0.31 ppbv

RT: 2.99 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 24 Mar 2022 4:28

Tgt Ion:

Ion Ratio

51 100

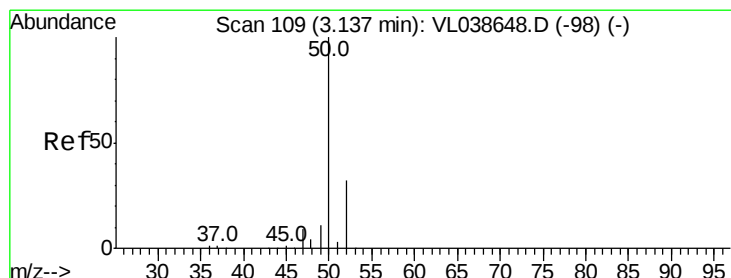
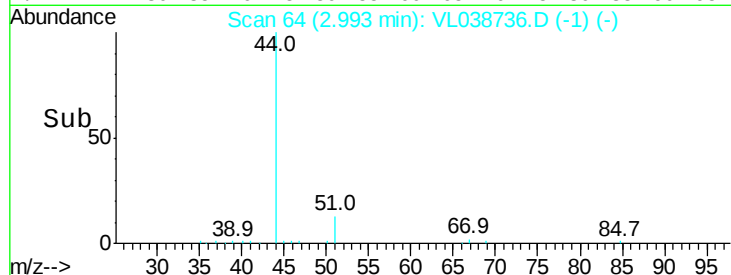
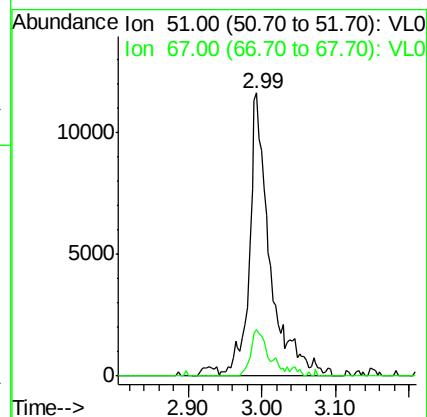
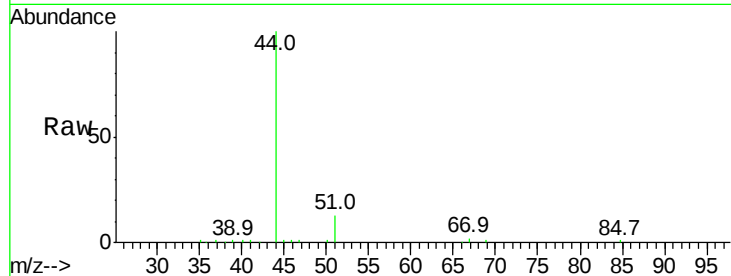
67 15.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 03/24/2022

Supervised By :Mahesh Dadoda 03/28/2022



#4

Chloromethane

Concen: 0.18 ppbv m

RT: 3.14 min Scan# 111

Delta R.T. 0.01 min

Lab File: VL038736.D

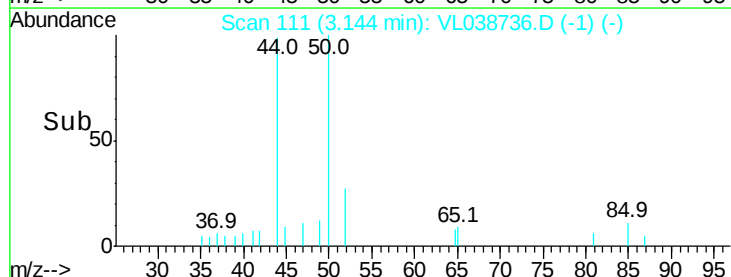
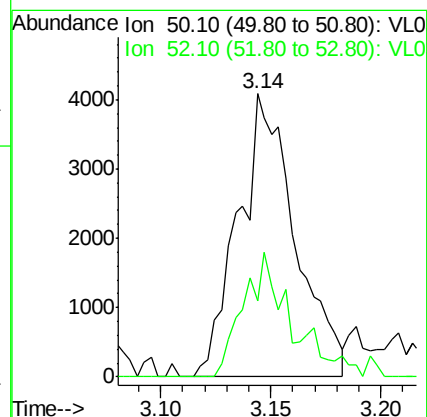
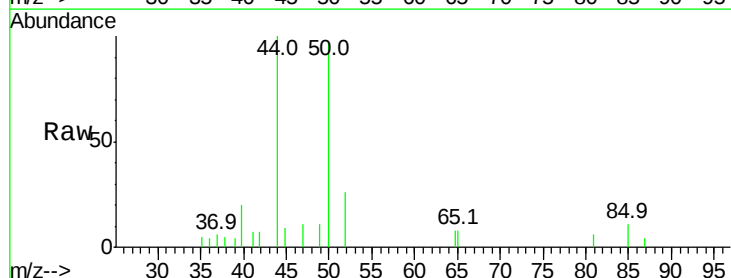
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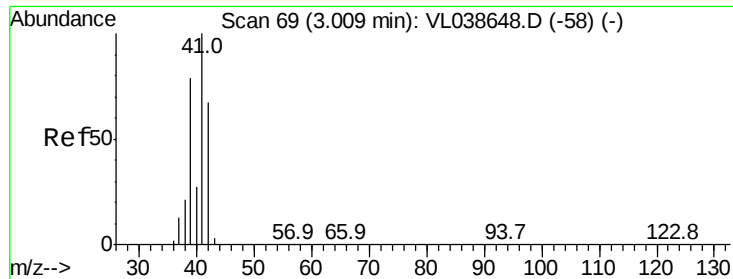
Tgt Ion: 50 Resp: 7348

Ion Ratio Lower Upper

50 100

52 26.7 25.5 38.3





#9

Propene

Concen: 1.43 ppbv

RT: 3.02 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 24 Mar 2022 4:28

Tgt Ion:

Ion Ratio

41 100

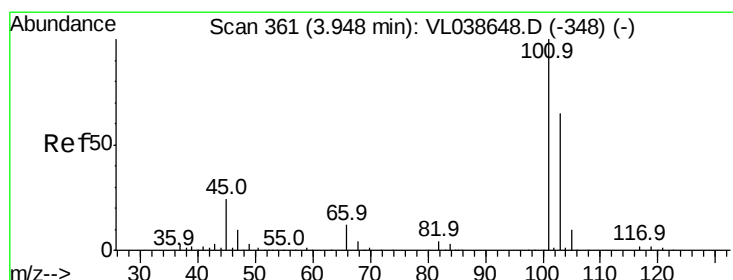
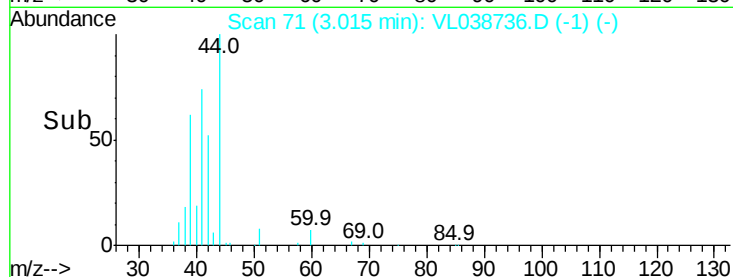
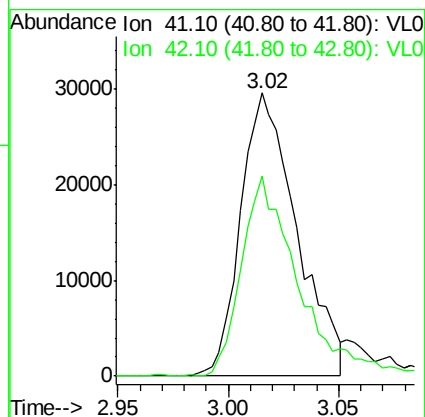
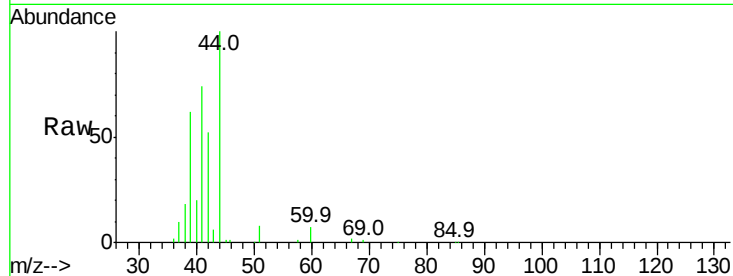
42 72.

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Reviewed By :Semsettin Yesilyurt 03/24/2022

Supervised By :Mahesh Dadoda 03/28/2022



#11

Trichlorofluoromethane

Concen: 0.28 ppbv

RT: 3.96 min Scan# 364

Delta R.T. 0.01 min

Lab File: VL038736.D

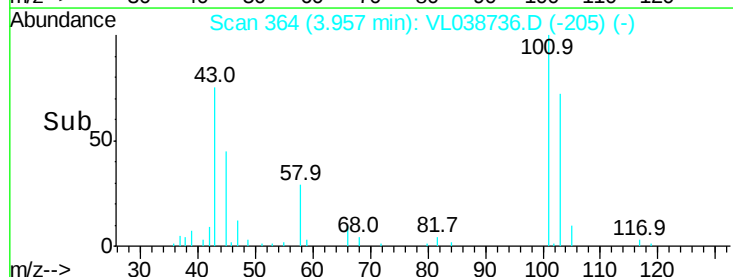
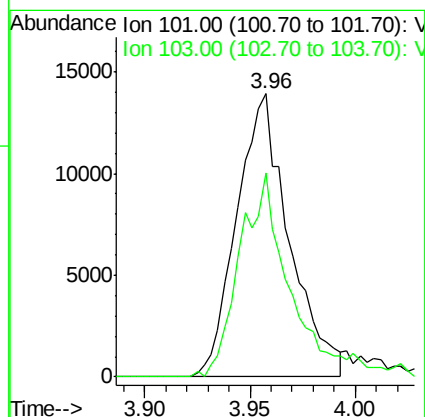
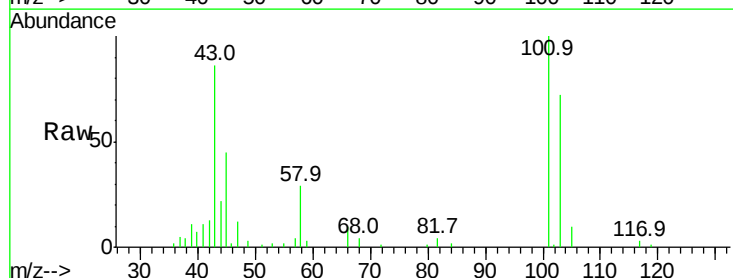
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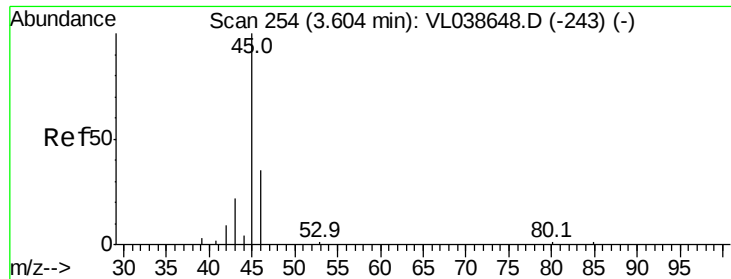
Tgt Ion:101 Resp: 24047

Ion Ratio Lower Upper

101 100

103 72.0 51.9 77.9



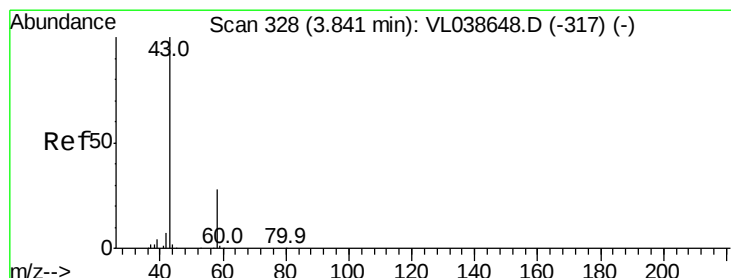
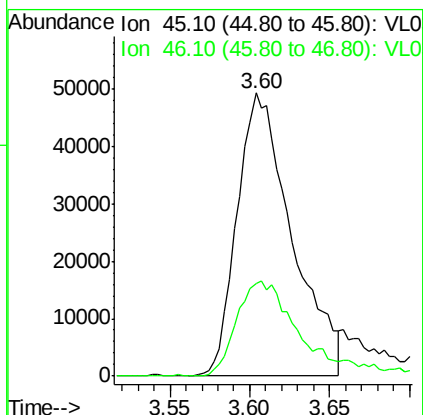
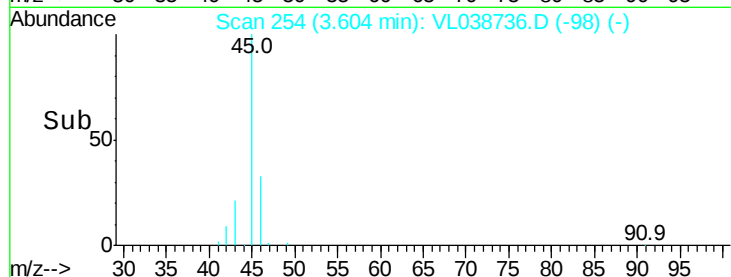
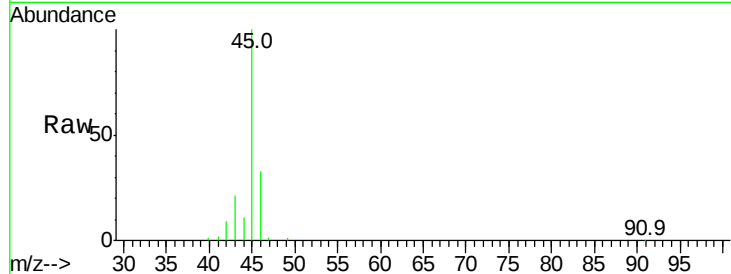


#13
Ethanol
Concen: 28.63 ppbv
RT: 3.60
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
COP91
Acq: 24 Mar 2022 4:28

Tgt Ion:
Ion Ratio
45 100
46 42.

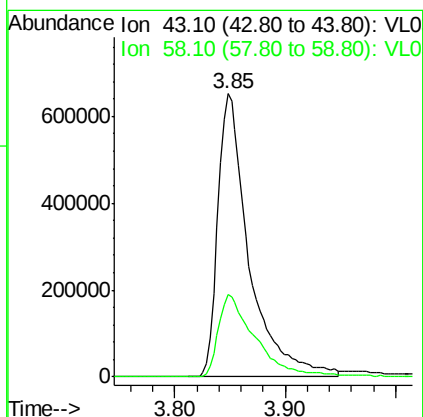
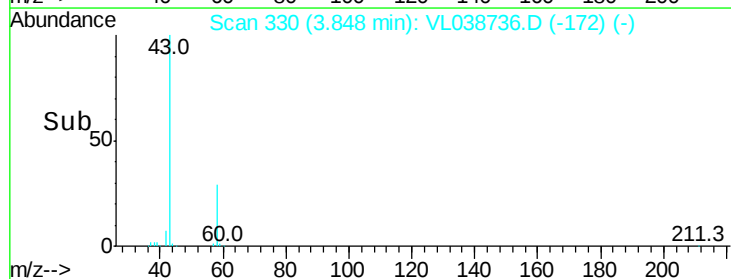
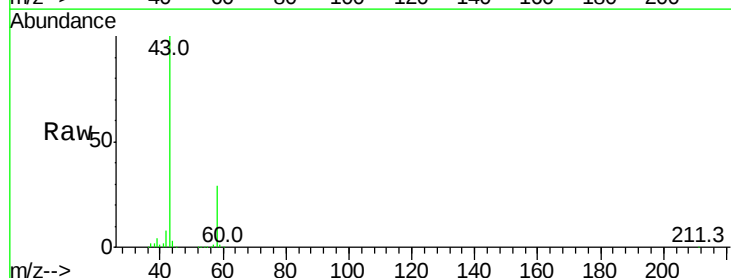
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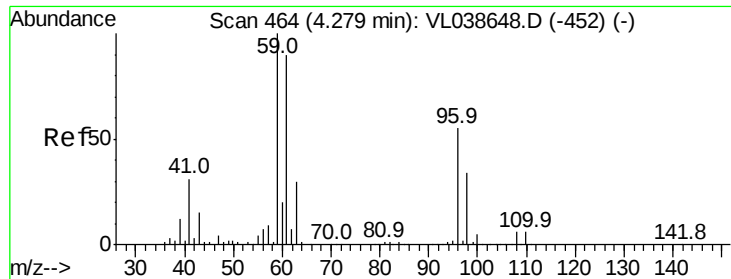
Reviewed By :Semsettin Yesilyurt 03/24/2022
Supervised By :Mahesh Dadoda 03/28/2022



#15
Acetone
Concen: 20.56 ppbv
RT: 3.85 min Scan# 330
Delta R.T. 0.01 min
Lab File: VL038736.D
Acq: 24 Mar 2022 4:28

Tgt Ion: 43 Resp: 1275941
Ion Ratio Lower Upper
43 100
58 35.3 23.3 34.9#



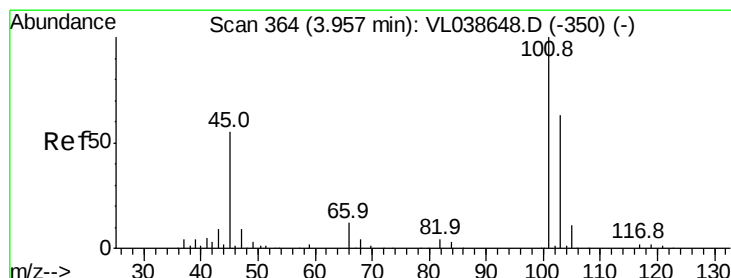
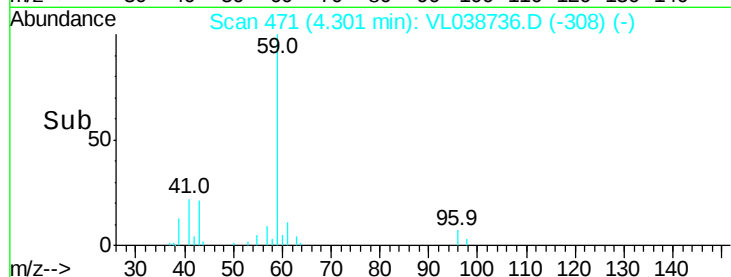
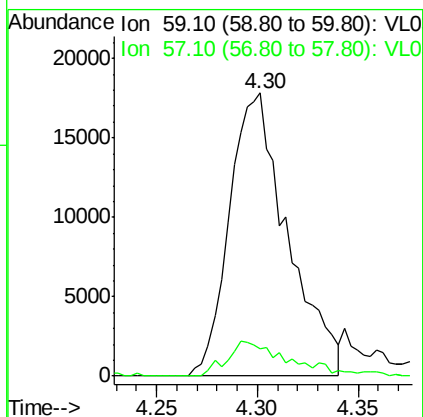
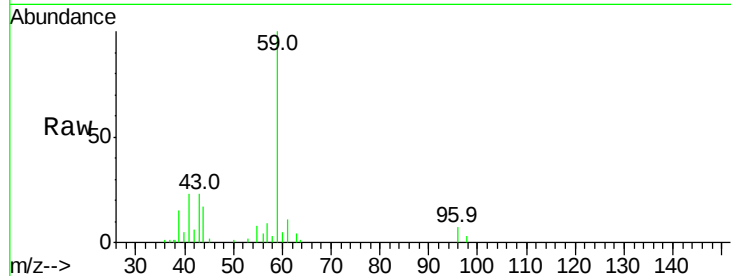


#17
tert-Butyl alcohol
Concen: 0.66 ppbv
RT: 4.30
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
COP91
Acq: 24 Mar 2022 4:28

Tgt Ion:
Ion Ratio
59 100
57 13.

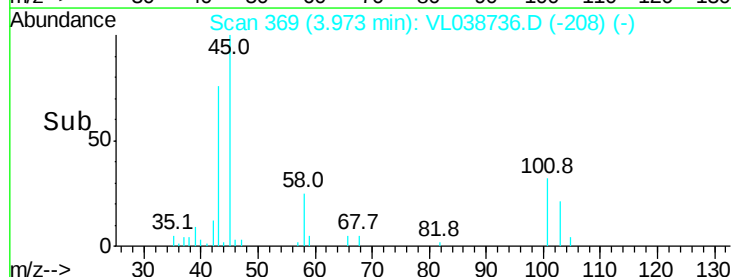
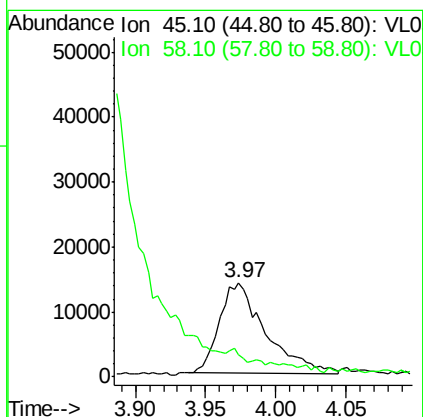
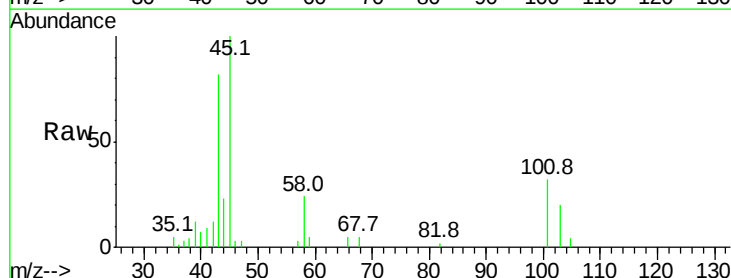
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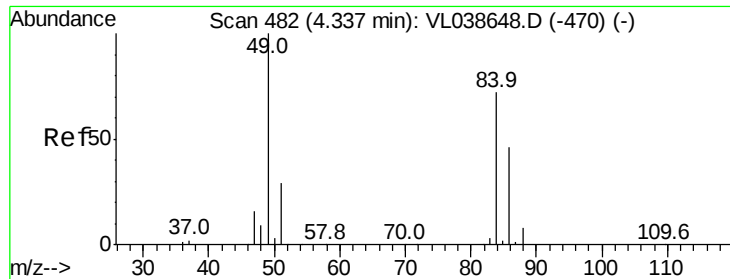
Reviewed By :Semsettin Yesilyurt 03/24/2022
Supervised By :Mahesh Dadoda 03/28/2022



#19
Isopropyl Alcohol
Concen: 0.93 ppbv
RT: 3.97 min Scan# 369
Delta R.T. 0.02 min
Lab File: VL038736.D
Acq: 24 Mar 2022 4:28

Tgt Ion: 45 Resp: 32105
Ion Ratio Lower Upper
45 100
58 0.0 2.3 3.5#



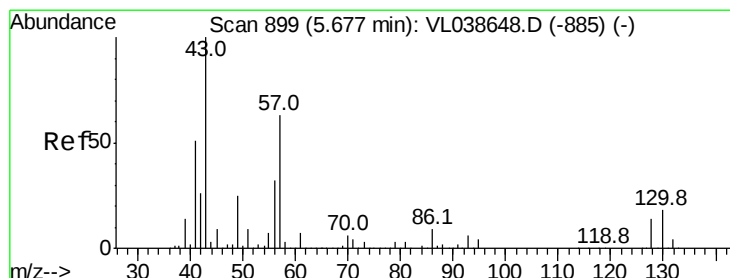
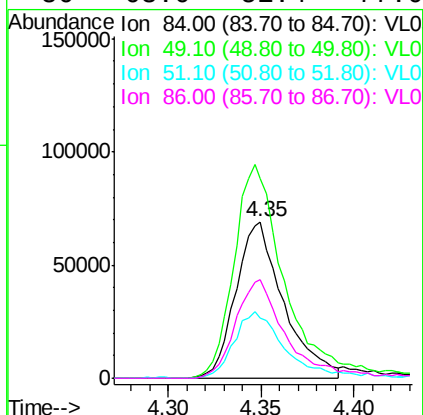
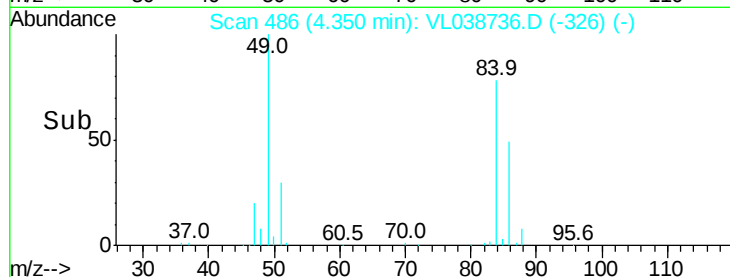
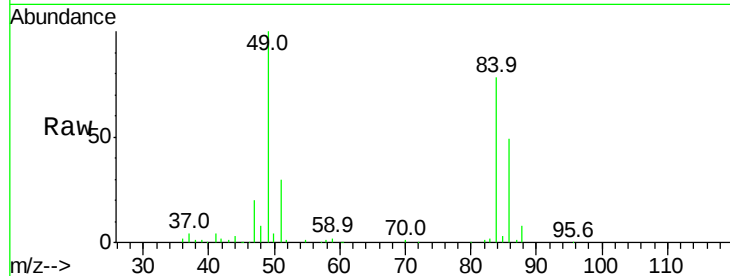


#20
Methylene Chloride
Concen: 4.74 ppbv
RT: 4.35
Delta R.T.: MSVOA_L
Lab File: ClientSampleId :
Acq: 24 Mar 2022 4:28

Tgt Ion:
Ion Ratio
84 100
49 127.
51 38.
86 63.0 51.4 77.0

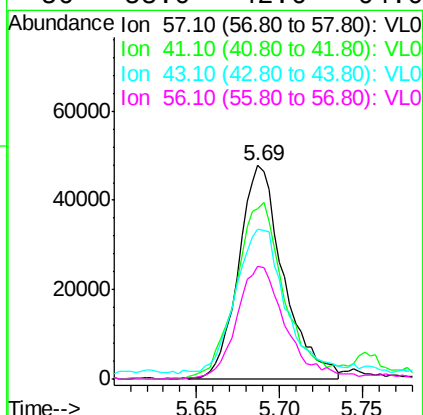
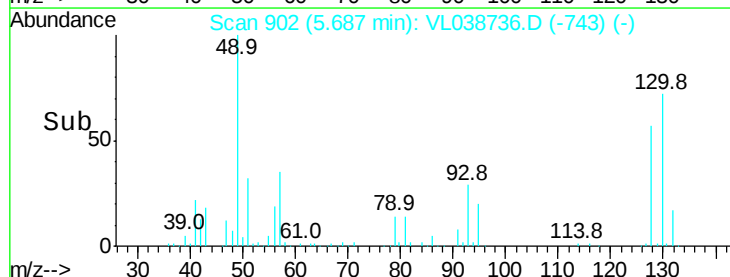
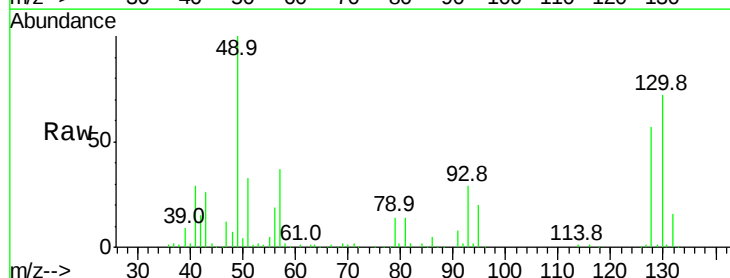
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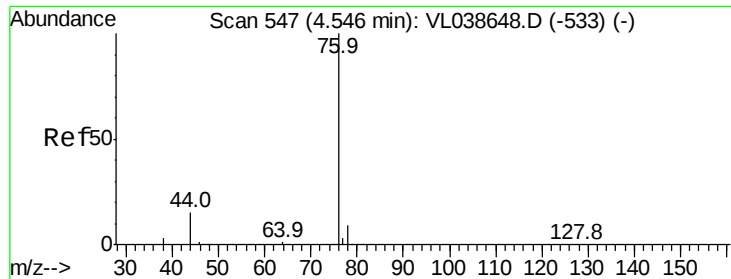
Reviewed By :Semsettin Yesilyurt 03/24/2022
Supervised By :Mahesh Dadoda 03/28/2022



#26
Hexane
Concen: 1.28 ppbv
RT: 5.69 min Scan# 902
Delta R.T.: 0.01 min
Lab File: VL038736.D
Acq: 24 Mar 2022 4:28

Tgt Ion: 57 Resp: 89834
Ion Ratio Lower Upper
57 100
41 89.8 67.0 100.4
43 84.6 184.2 276.2#
56 58.0 42.6 64.0



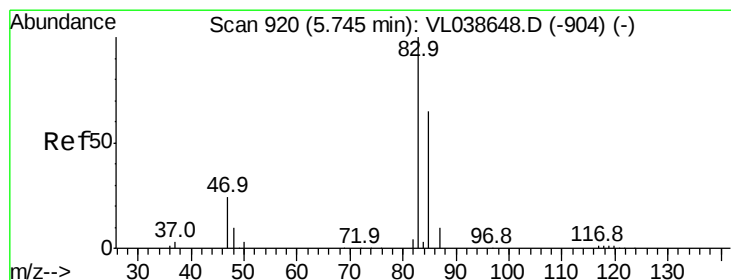
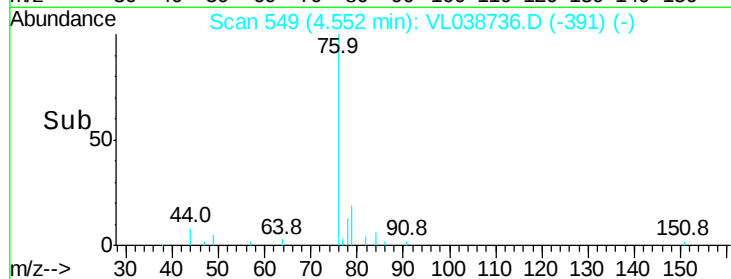
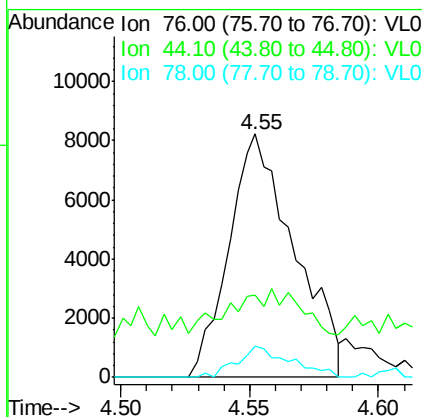
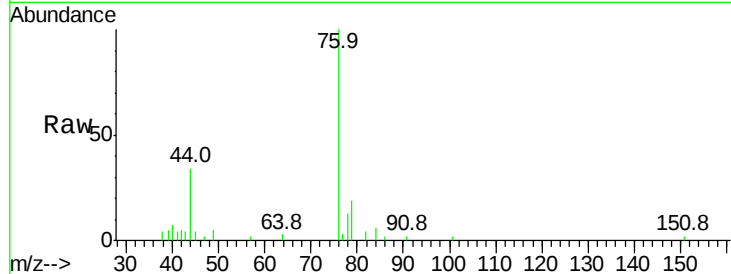


#27
Carbon Disulfide
Concen: 0.21 ppbv
RT: 4.55
Instrument: MSVOA_L
Delta R.T.:
Lab File: ClientSampleId :
COP91
Acq: 24 Mar 2022 4:28

Tgt Ion:
Ion Ratio
76 100
44 19.
78 10.

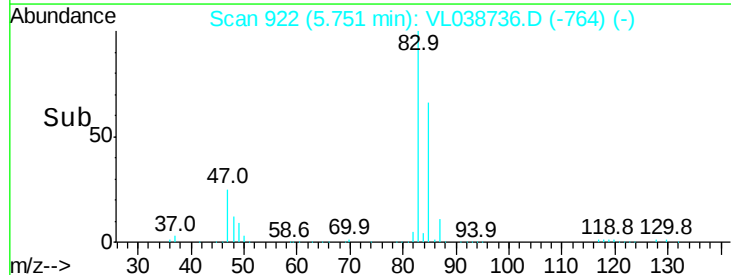
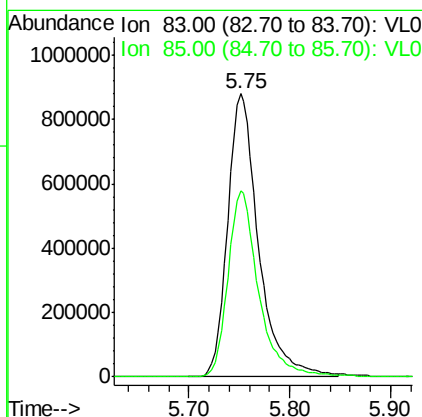
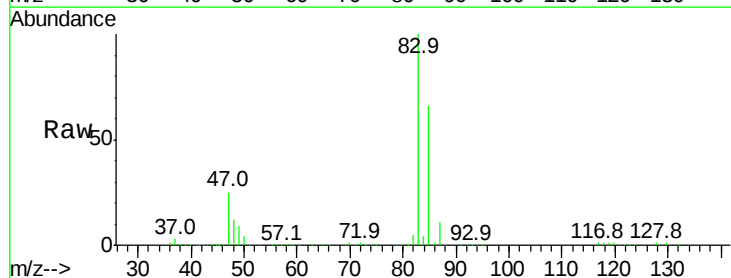
Manual Integrations
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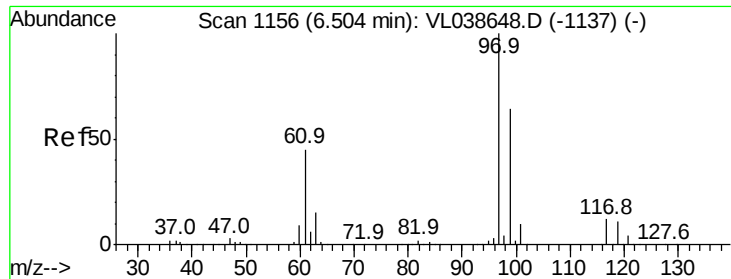
Reviewed By :Semsettin Yesilyurt 03/24/2022
Supervised By :Mahesh Dadoda 03/28/2022



#29
Chloroform
Concen: 16.77 ppbv
RT: 5.75 min Scan# 922
Delta R.T. 0.01 min
Lab File: VL038736.D
Acq: 24 Mar 2022 4:28

Tgt Ion: 83 Resp: 1877789
Ion Ratio Lower Upper
83 100
85 65.7 51.7 77.5





#32

1,1,1-Trichloroethane

Concen: 0.05 ppbv m

RT: 6.51

Instrument: MSVOA_L

Delta R.T.

Lab File: ClientSampleId :

Acq: 24 Mar 2022 4:28

Tgt Ion:

Ion Ratio

97 100

99 0.

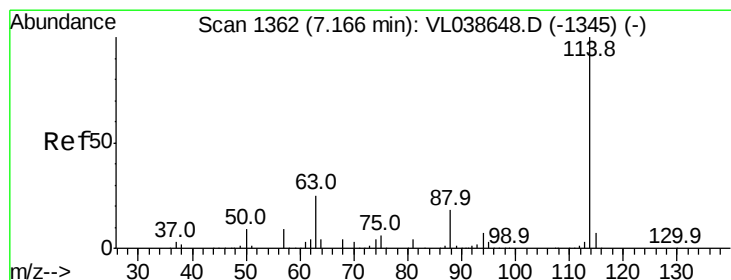
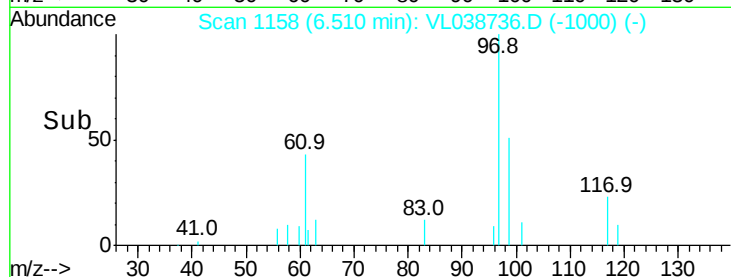
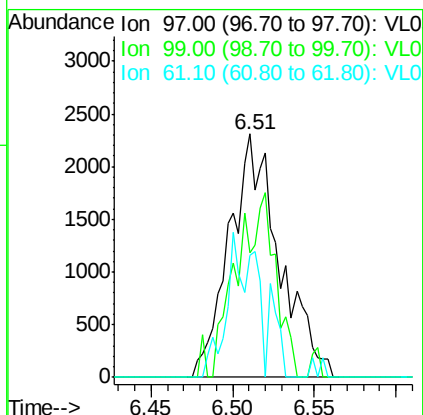
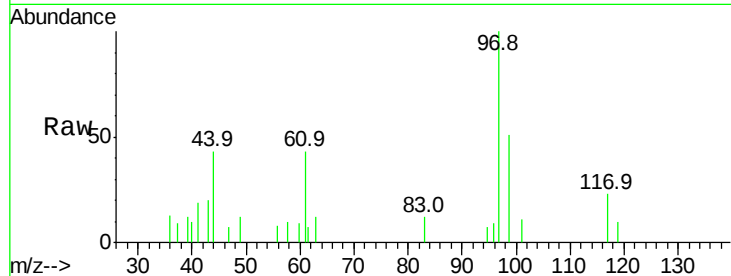
61 0.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/24/2022

Supervised By :Mahesh Dadoda 03/28/2022



#33

1,4-Difluorobenzene

Concen: 10.00 ppbv

RT: 7.17 min Scan# 1364

Delta R.T. 0.01 min

Lab File: VL038736.D

Acq: 24 Mar 2022 4:28

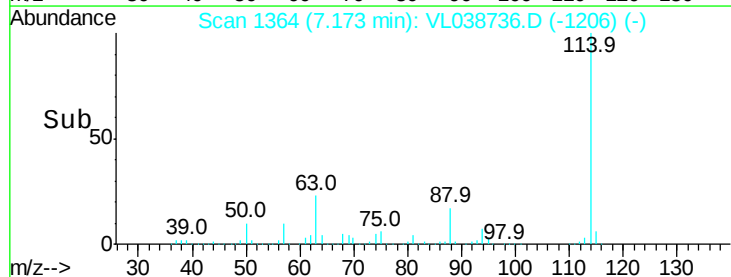
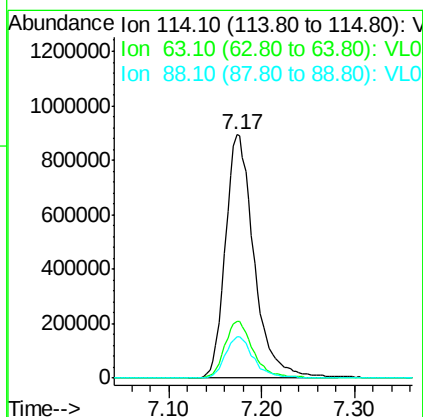
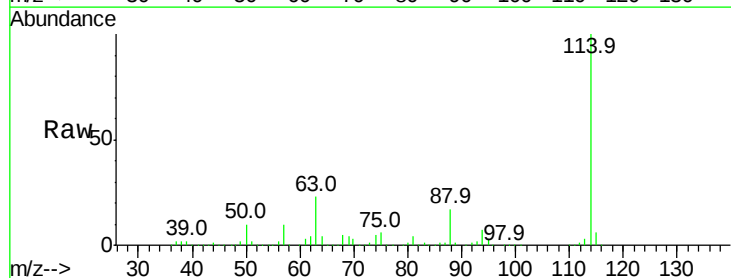
Tgt Ion:114 Resp: 1923050

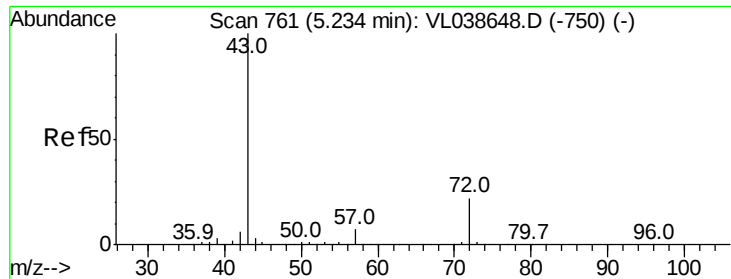
Ion Ratio Lower Upper

114 100

63 23.4 19.4 29.0

88 17.0 13.9 20.9



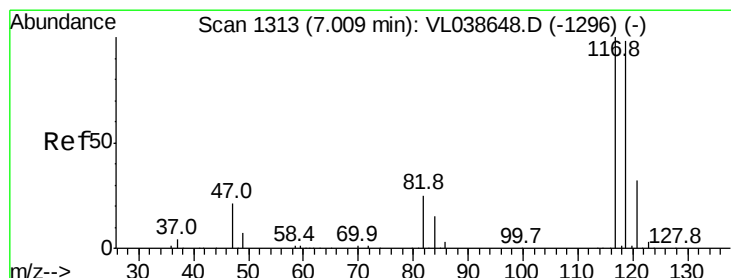
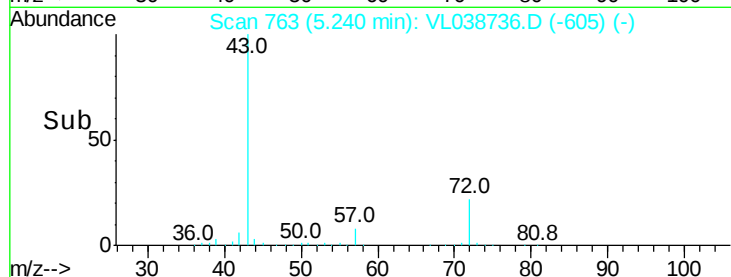
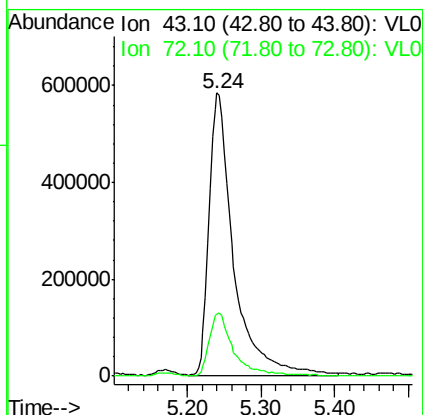
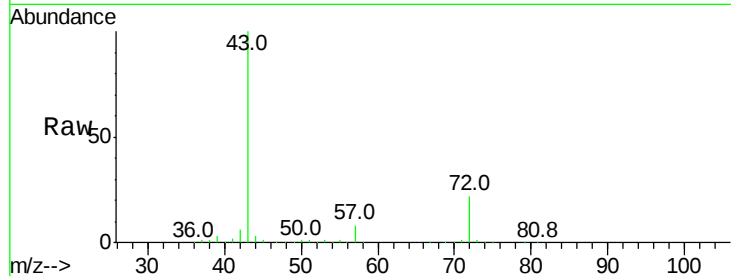


#34
2-Butanone
Concen: 17.68 ppbv
RT: 5.24
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 24 Mar 2022 4:28

Tgt Ion:
Ion Ratio
43 100
72 22.

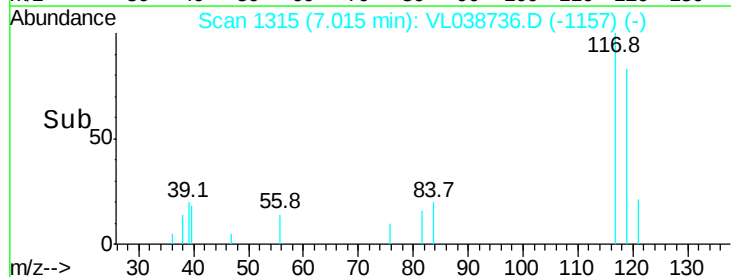
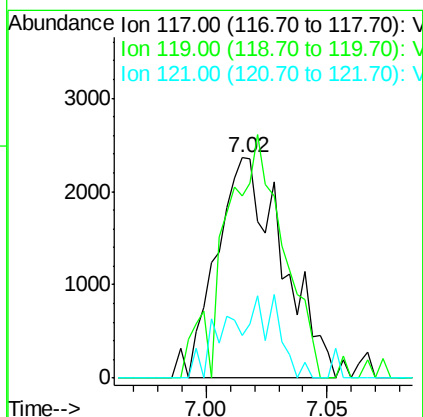
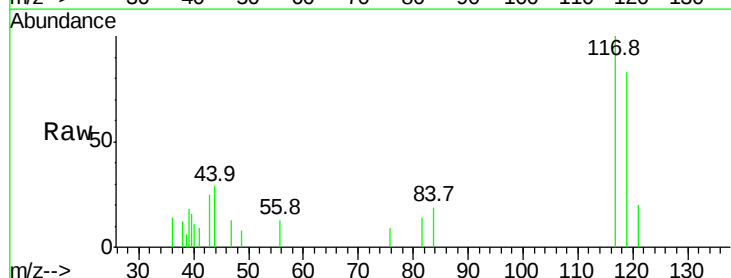
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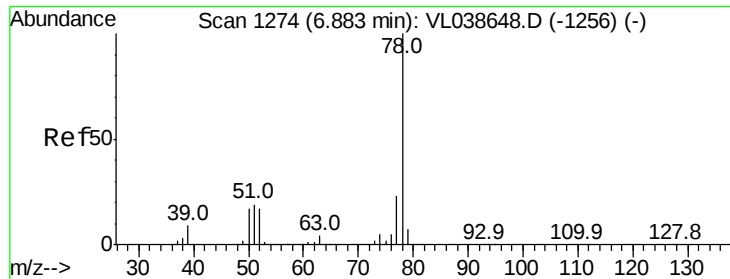
Reviewed By :Semsettin Yesilyurt 03/24/2022
Supervised By :Mahesh Dadoda 03/28/2022



#35
Carbon Tetrachloride
Concen: 0.04 ppbv m
RT: 7.02 min Scan# 1315
Delta R.T. 0.01 min
Lab File: VL038736.D
Acq: 24 Mar 2022 4:28

Tgt Ion:117 Resp: 4449
Ion Ratio Lower Upper
117 100
119 82.6 78.1 117.1
121 19.5 25.8 38.6#



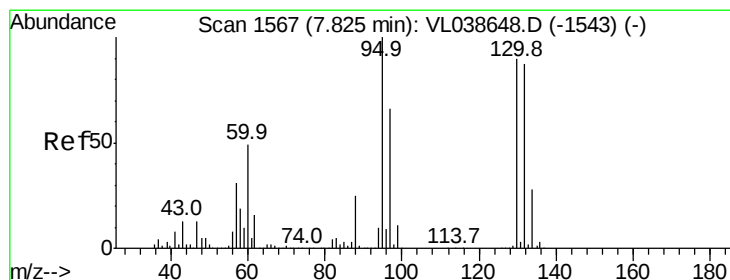
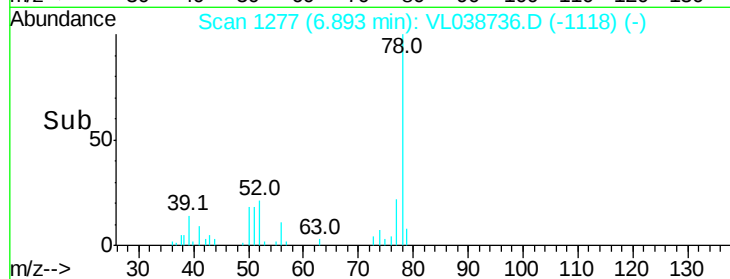
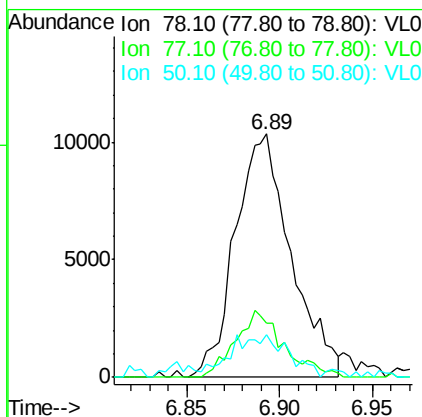
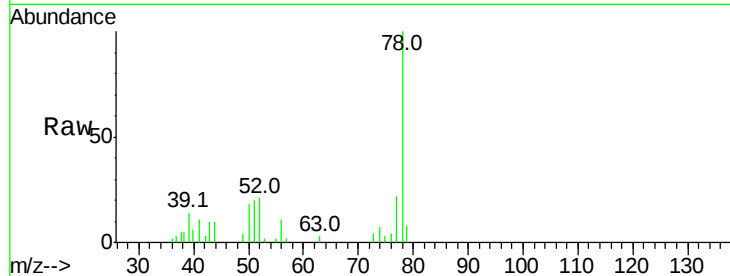


#36
Benzene
Concen: 0.15 ppbv
RT: 6.89
Instrument: MSVOA_L
Delta R.T.:
Lab File: ClientSampleId:
COP91
Acq: 24 Mar 2022 4:28

Tgt Ion:
Ion Ratio
78 100
77 22.
50 14.

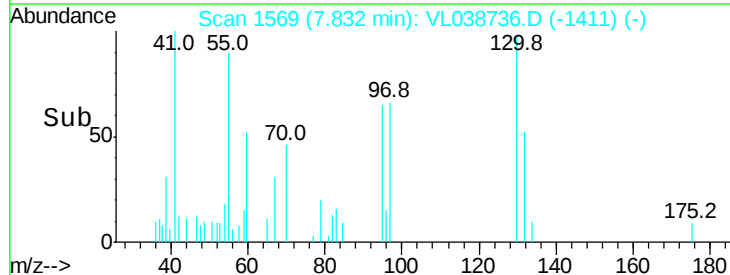
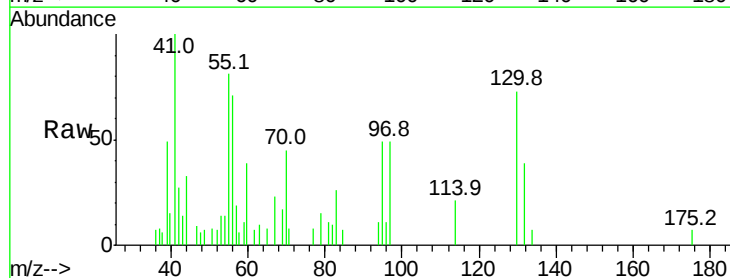
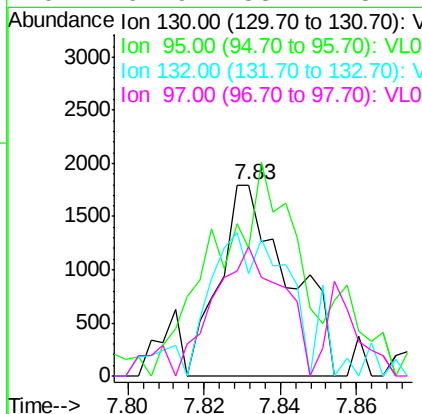
Manual Integrations
APPROVED

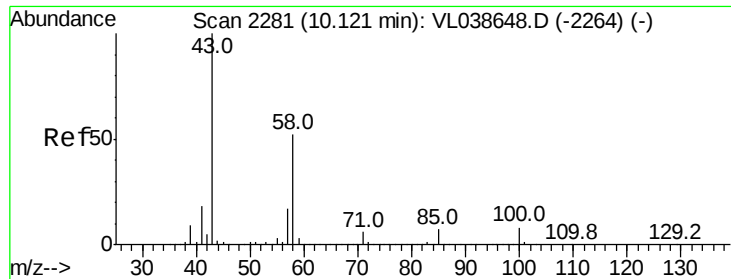
Reviewed By :Semsettin Yesilyurt 03/24/2022
Supervised By :Mahesh Dadoda 03/28/2022



#38
Trichloroethene
Concen: 0.04 ppbv m
RT: 7.83 min Scan# 1569
Delta R.T. 0.01 min
Lab File: VL038736.D
Acq: 24 Mar 2022 4:28

Tgt Ion:130 Resp: 2263
Ion Ratio Lower Upper
130 100
95 66.9 88.9 133.3#
132 53.7 77.4 116.0#
97 67.9 58.2 87.4



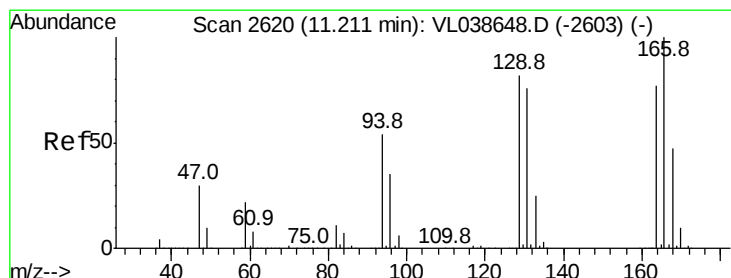
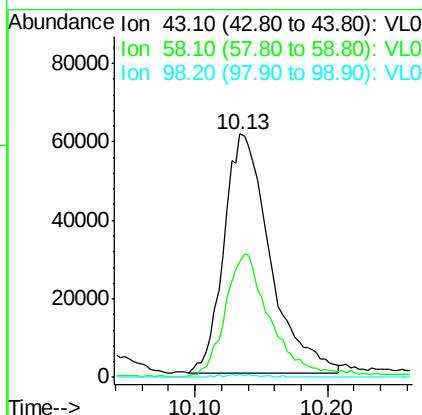
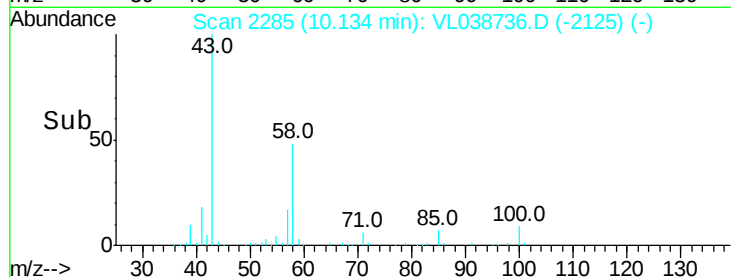
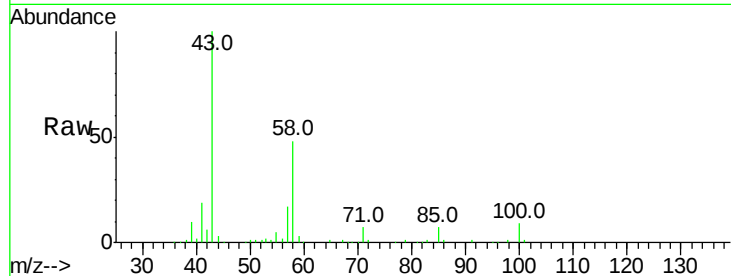


#51
2-Hexanone
Concen: 1.45 ppbv
RT: 10.13
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 24 Mar 2022 4:28

Tgt Ion:
Ion Ratio
43 100
58 53.
98 0.

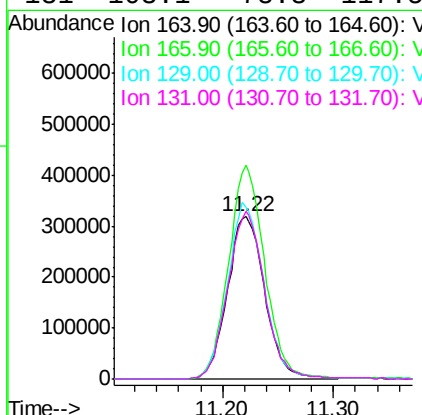
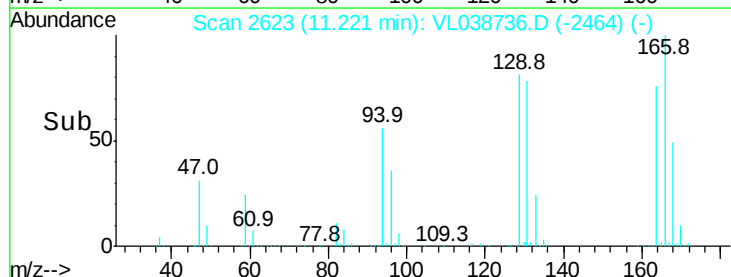
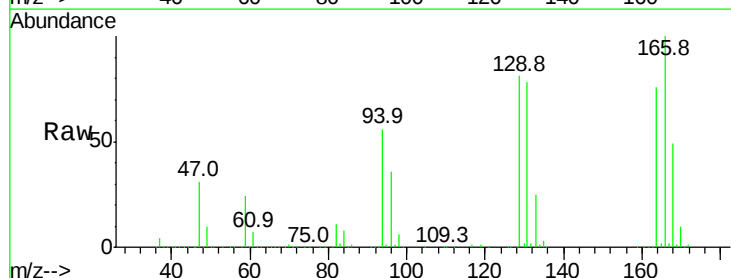
Manual Integrations
APPROVED

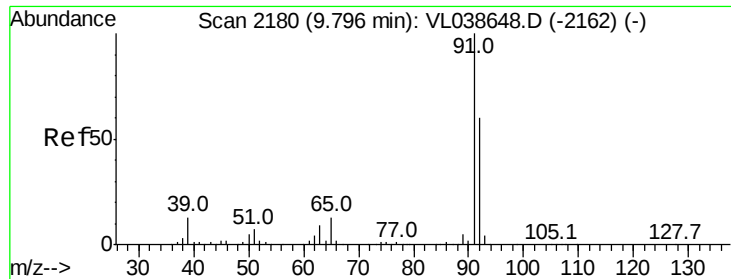
Reviewed By :Semsettin Yesilyurt 03/24/2022
Supervised By :Mahesh Dadoda 03/28/2022



#52
Tetrachloroethene
Concen: 13.73 ppbv
RT: 11.22 min Scan# 2623
Delta R.T. 0.01 min
Lab File: VL038736.D
Acq: 24 Mar 2022 4:28

Tgt Ion:164 Resp: 745497
Ion Ratio Lower Upper
164 100
166 131.6 103.3 154.9
129 106.0 85.2 127.8
131 103.1 78.3 117.5





#53

Toluene

Concen: 0.46 ppbv

RT: 9.81 Instrument: MSVOA_1

Delta R.T. 0.01

Lab File: ClientSampleId :

Acq: 24 Mar 2022 4:28

Tgt Ion:

Ion Ratio

91 100

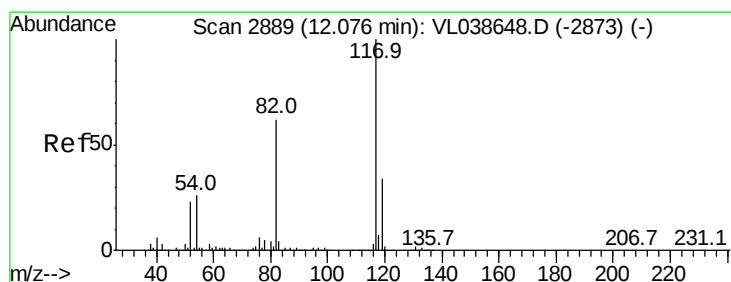
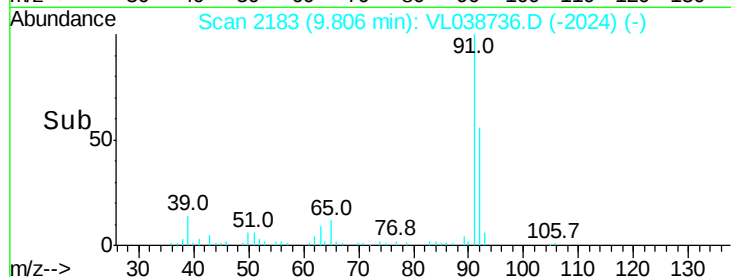
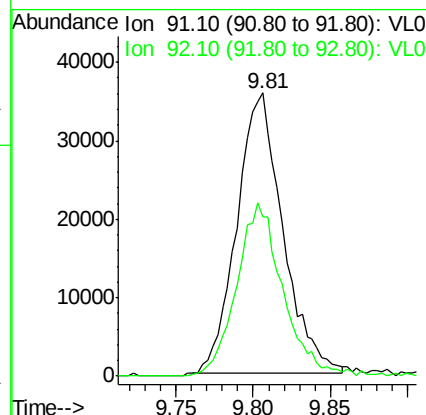
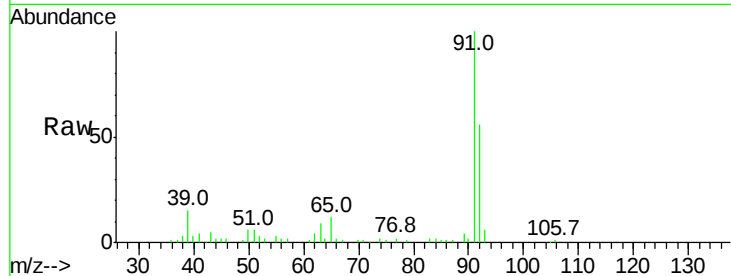
92 62.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/24/2022

Supervised By :Mahesh Dadoda 03/28/2022



#55

Chlorobenzene-d5

Concen: 10.00 ppbv

RT: 12.08 min Scan# 2891

Delta R.T. 0.01 min

Lab File: VL038736.D

Acq: 24 Mar 2022 4:28

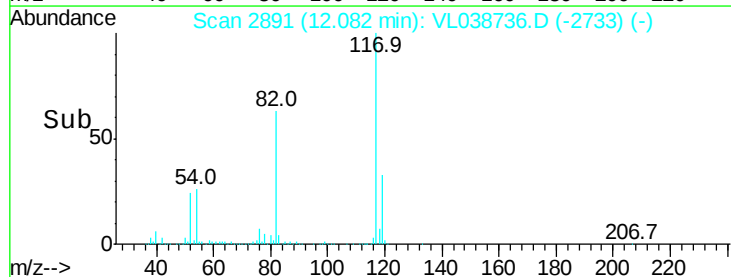
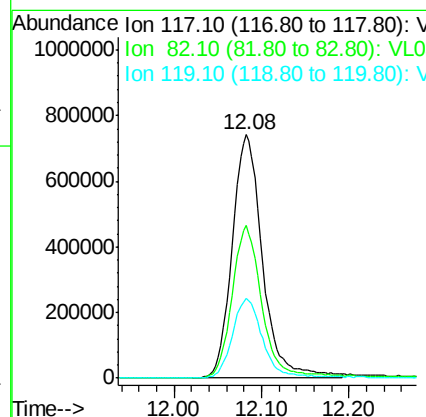
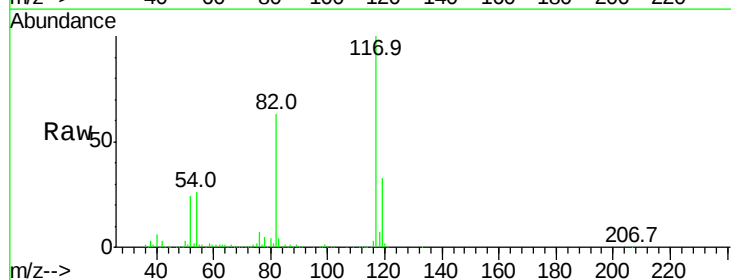
Tgt Ion:117 Resp: 1789507

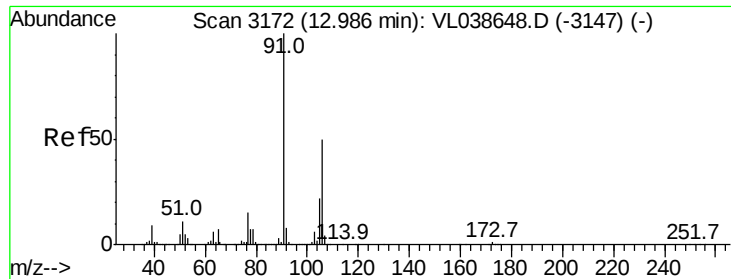
Ion Ratio Lower Upper

117 100

82 63.7 51.6 77.4

119 33.8 26.9 40.3



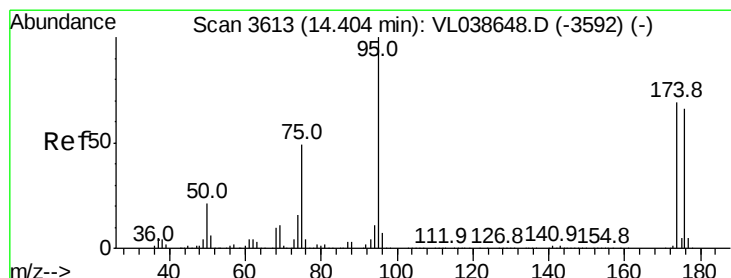
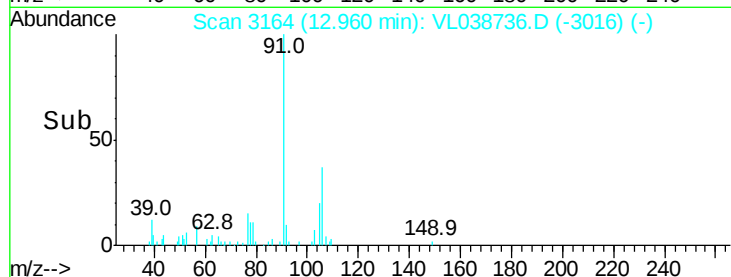
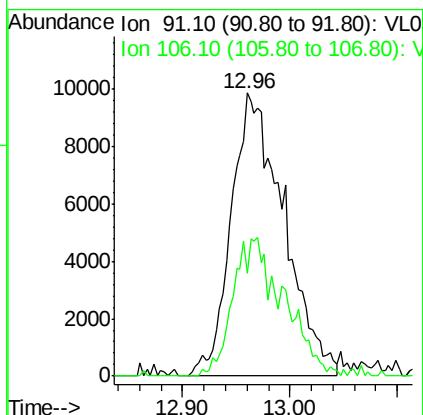
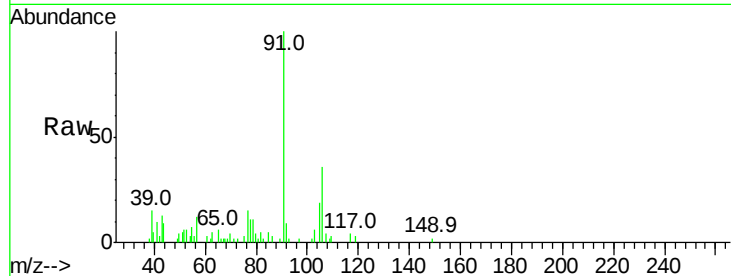


#59
m/p-Xylene
Concen: 0.18 ppbv m
RT: 12.96
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 24 Mar 2022 4:28

Tgt Ion:
Ion Ratio
91 100
106 0.

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 03/24/2022
Supervised By :Mahesh Dadoda 03/28/2022



#68
1-Bromo-4-Fluorobenzene
Concen: 9.18 ppbv
RT: 14.41 min Scan# 3615
Delta R.T. 0.01 min
Lab File: VL038736.D
Acq: 24 Mar 2022 4:28

Tgt Ion: 95 Resp: 1259062
Ion Ratio Lower Upper
95 100
174 73.6 56.1 84.1
175 5.2 4.2 6.2

