

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL112321\
 Data File : VL038104.D
 Acq On : 23 Nov 2021 18:01
 Operator : SY/AP
 Sample : M4805-07
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA L
 ClientSampleId :
 IA-CURATED-HOME

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 11/25/2021
 Supervised By : Mahesh Dadoda 11/29/2021

Quant Time: Nov 24 08:16:38 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL111821A
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:
 QLast Update : Thu Nov 18 13:16:09 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	960356	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	2794461	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.07	117	2363155	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.40	95	1906163	11.18	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	111.80%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.05	85	37203	0.235	ppbv	93
4) Chloromethane	3.15	50	36641	0.534	ppbv	99
9) Propene	3.03	41	320191m	4.311	ppbv	
10) Heptane	8.11	43	117098	0.638	ppbv	98
11) Trichlorofluoromethane	3.95	101	260827	1.729	ppbv	91
13) Ethanol	3.64	45	16897757	2354.183	ppbv	93
15) Acetone	3.84	43	5850756	70.267	ppbv	99
19) Isopropyl Alcohol	4.01	45	26863464	446.521	ppbv #	98
20) Methylene Chloride	4.34	84	693529	14.870	ppbv	95
25) Ethyl Acetate	5.67	43	2556784	9.239	ppbv #	93
29) Chloroform	5.75	83	344146	1.751	ppbv	98
30) Cyclohexane	7.12	84	13445m	0.111	ppbv	
34) 2-Butanone	5.24	43	144828	1.285	ppbv	94
35) Carbon Tetrachloride	7.01	117	12645m	0.064	ppbv	
36) Benzene	6.88	78	111499	0.400	ppbv	96
37) 1,2-Dichloroethane	6.30	62	44223	0.328	ppbv	100
44) 2,2,4-Trimethylpentane	7.86	57	199131	0.427	ppbv	91
52) Tetrachloroethene	11.22	164	11658m	0.113	ppbv	
53) Toluene	9.80	91	745613	2.325	ppbv	96
58) Ethyl Benzene	12.70	91	158923	0.407	ppbv	95
59) m/p-Xylene	12.95	91	252463m	0.768	ppbv	
60) o-Xylene	13.68	91	103551	0.340	ppbv	95
61) Styrene	13.52	104	75276	0.460	ppbv	92
69) p-Isopropyltoluene	17.64	119	47637	0.115	ppbv #	70
74) 1,2,4-Trimethylbenzene	16.74	105	92963	0.279	ppbv #	66

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

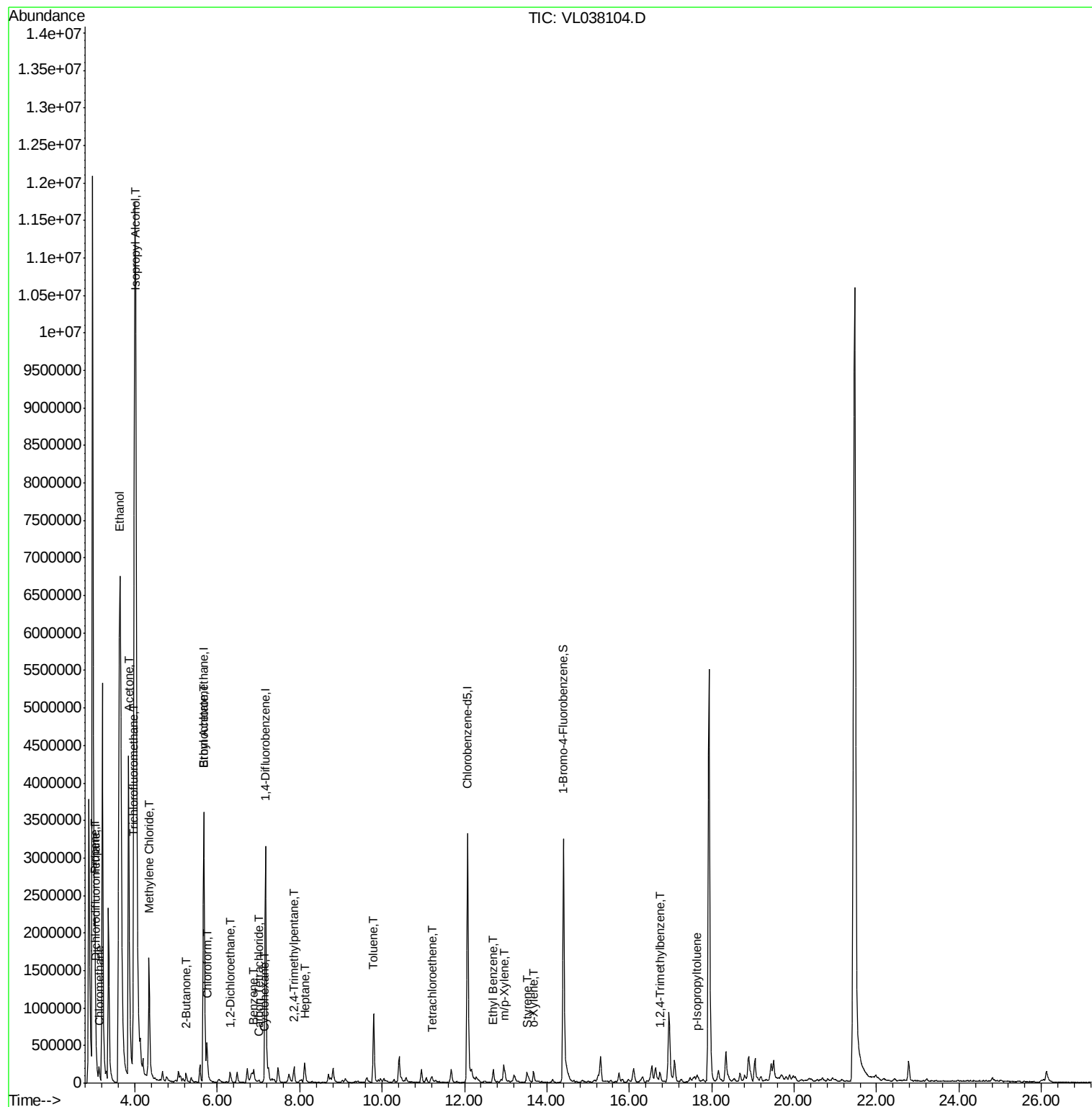
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL112321\
Data File : VL038104.D
Acq On : 23 Nov 2021 18:01
Operator : SY/AP
Sample : M4805-07
Misc : 400mL/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

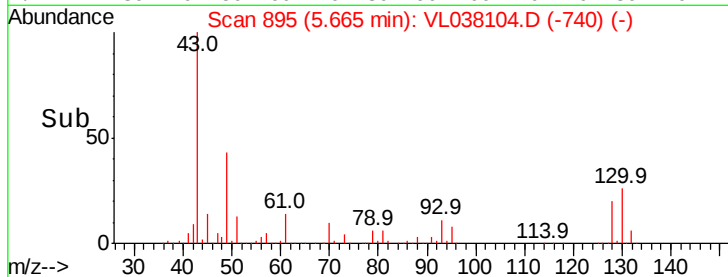
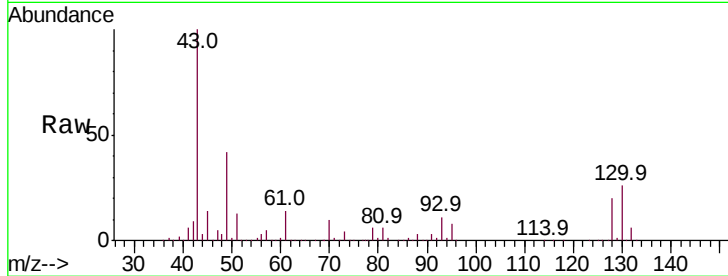
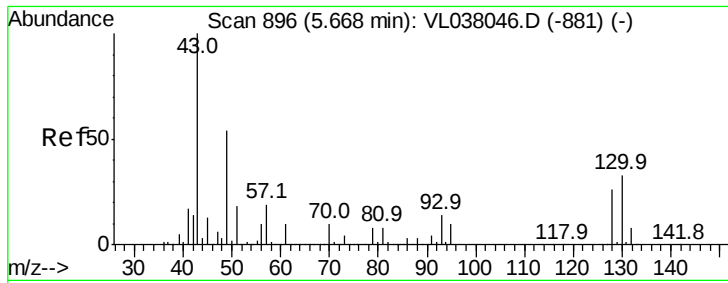
Instrument :
MSVOA_L
ClientSampleId :
IA-CURATED-HOME

Quant Time: Nov 24 08:16:38 2021
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL111821
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:
QLast Update : Thu Nov 18 13:16:09 2021
Response via : Initial Calibration

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 11/25/2021
Supervised By :Mahesh Dadoda 11/29/2021





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 23 Nov 2021 18:01

Tot Ion:

Ion Ratio

49 100

128 49.

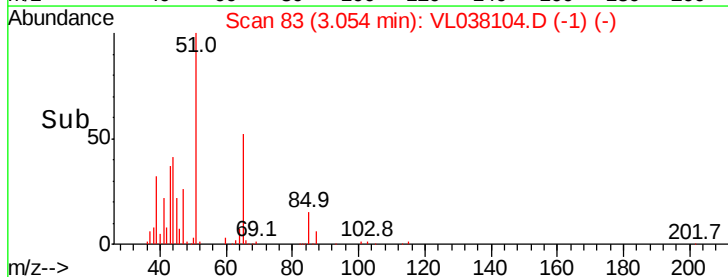
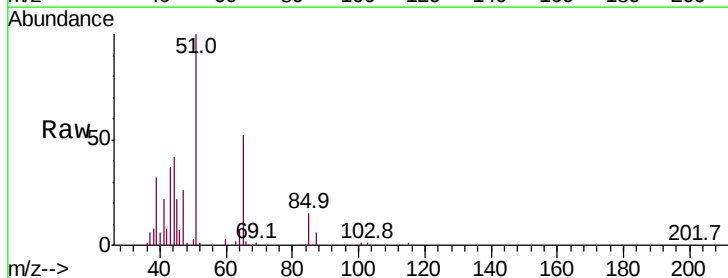
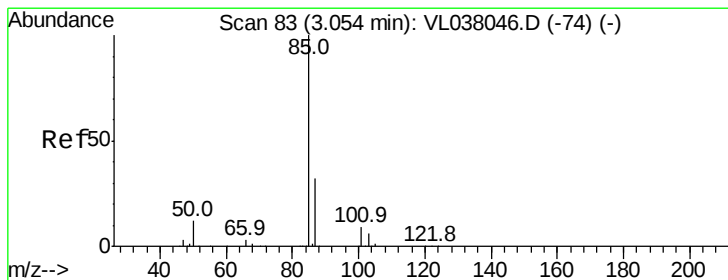
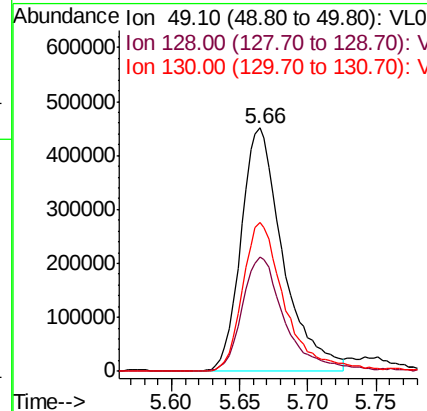
130 63.

Manual Integrations

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Supervised By :Mahesh Dadoda 11/29/2021



#2

Dichlorodifluoromethane

Concen: 0.235 ppbv

RT: 3.05 min Scan# 83

Delta R.T. 0.00 min

Lab File: VL038104.D

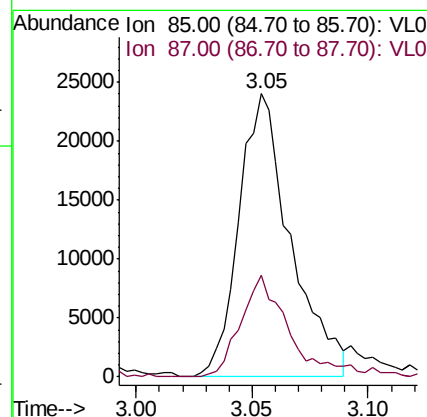
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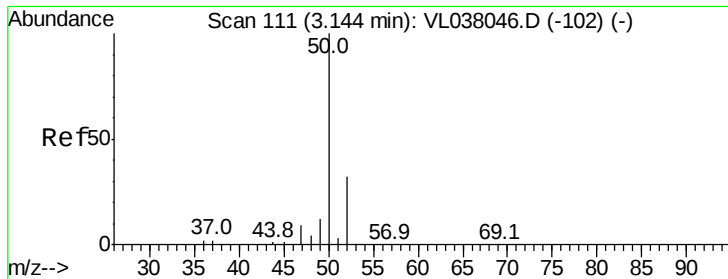
Tgt Ion: 85 Resp: 37203

Ion Ratio Lower Upper

85 100

87 35.9 25.8 38.6





#4

Chloromethane

Concen: 0.534 ppbv

RT: 3.15 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 23 Nov 2021 18:01

Tot Ion:

Ion Ratio

50 100

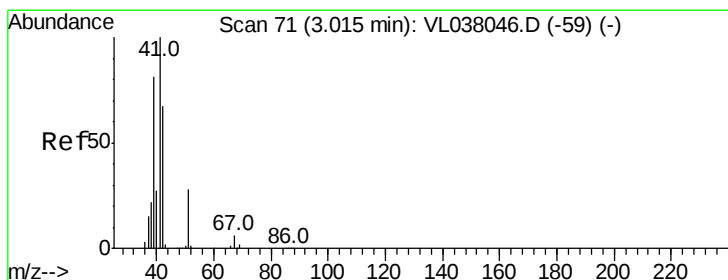
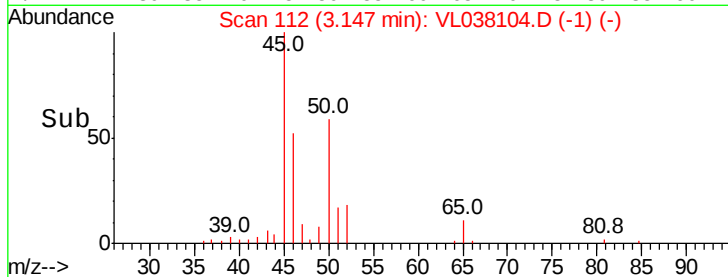
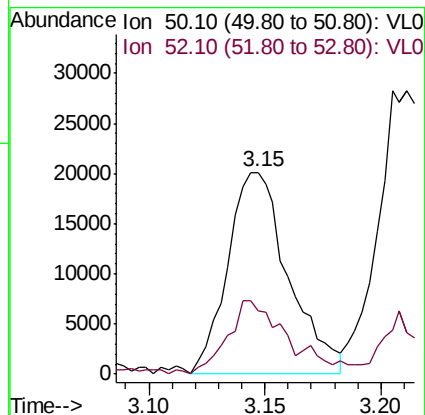
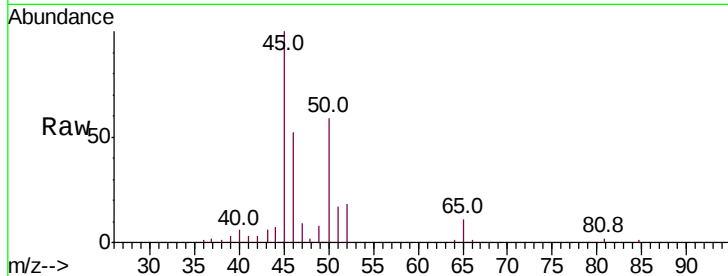
52 31.

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#9

Propene

Concen: 4.311 ppbv m

RT: 3.03 min Scan# 75

Delta R.T. 0.01 min

Lab File: VL038104.D

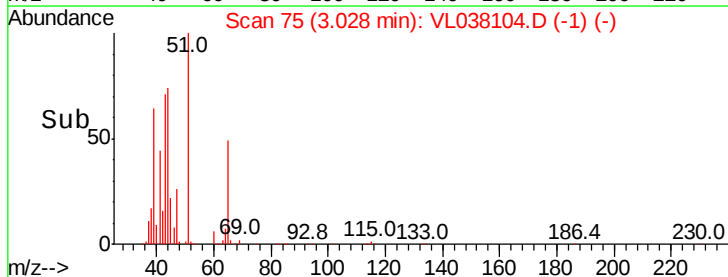
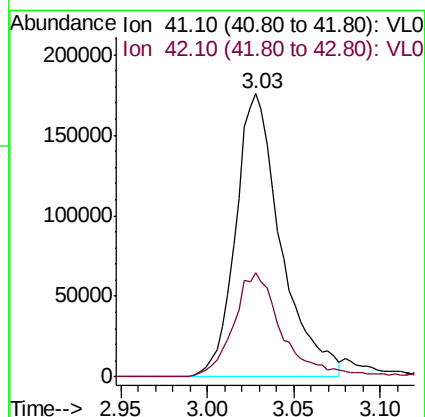
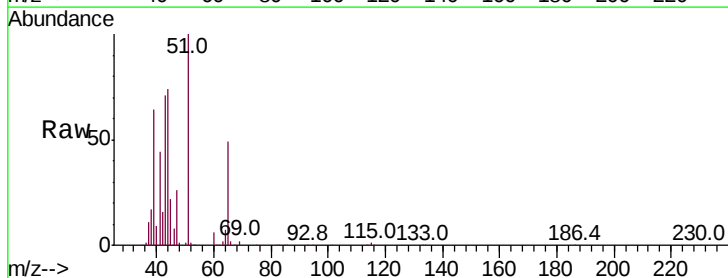
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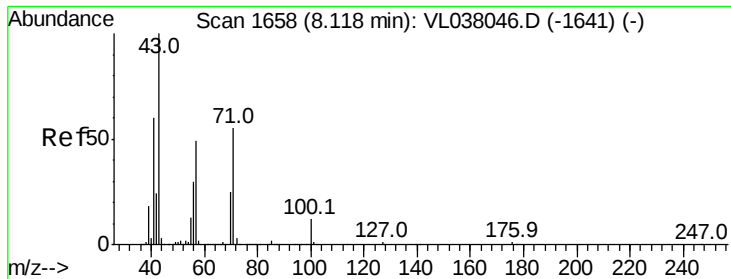
Tgt Ion: 41 Resp: 320191

Ion Ratio Lower Upper

41 100

42 433.5 53.8 80.8#



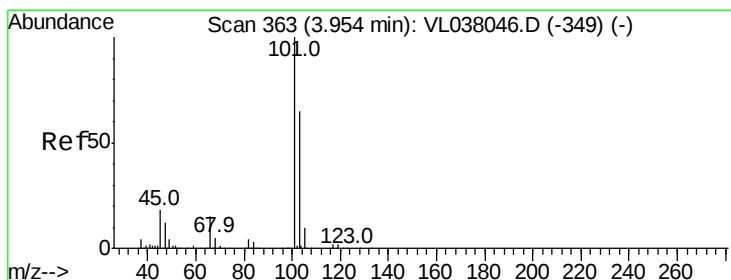
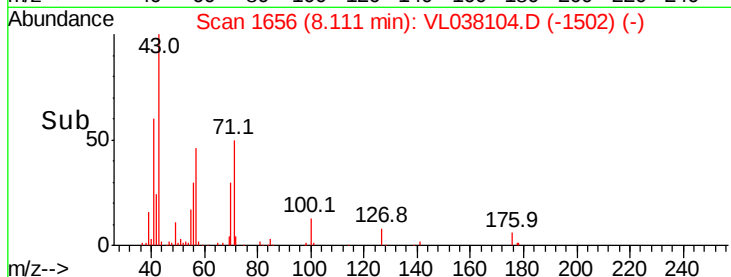
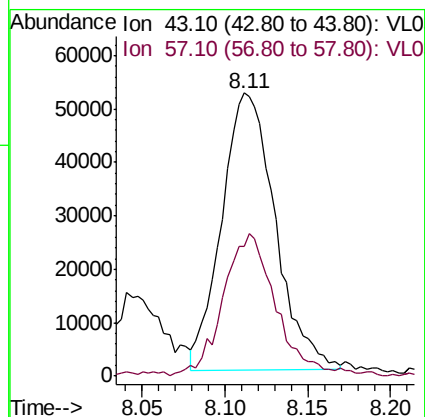
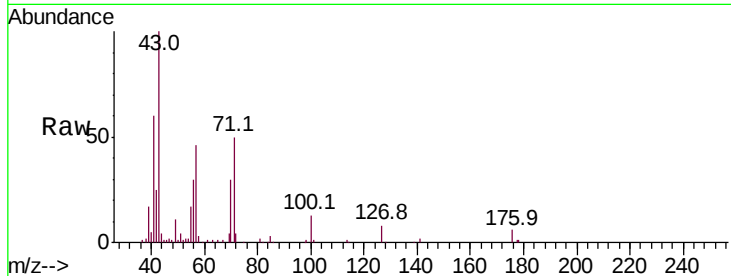


#10
 Heptane
 Concen: 0.638 ppbv
 RT: 8.11
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 23 Nov 2021 18:01

Tot Ion:
 Ion Ratio
 43 100
 57 49.

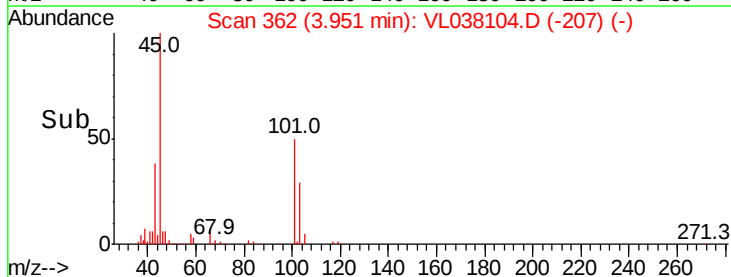
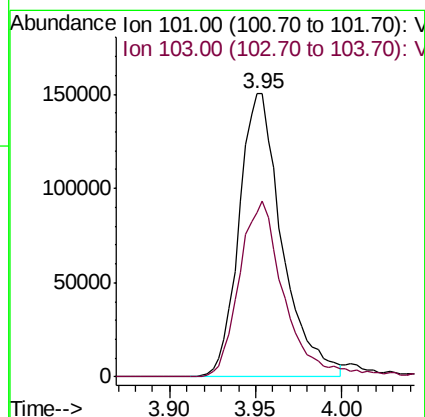
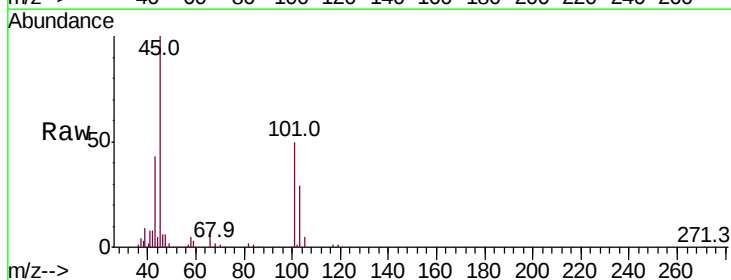
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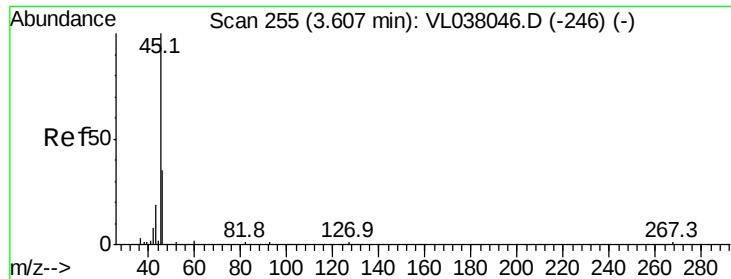
Reviewed By :Semsettin Yesilyurt 11/25/2021
 Supervised By :Mahesh Dadoda 11/29/2021



#11
 Trichlorofluoromethane
 Concen: 1.729 ppbv
 RT: 3.95 min Scan# 362
 Delta R.T. -0.00 min
 Lab File: VL038104.D
 Acq: 23 Nov 2021 18:01

Tgt Ion:101 Resp: 260827
 Ion Ratio Lower Upper
 101 100
 103 57.9 51.8 77.6



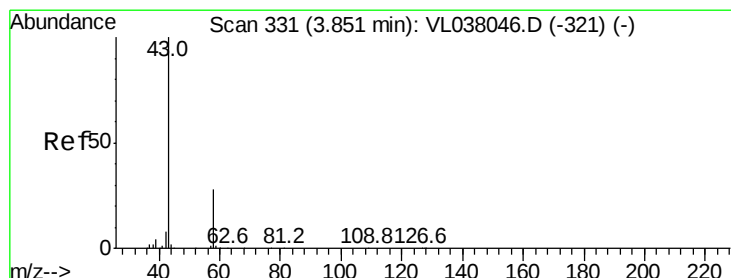
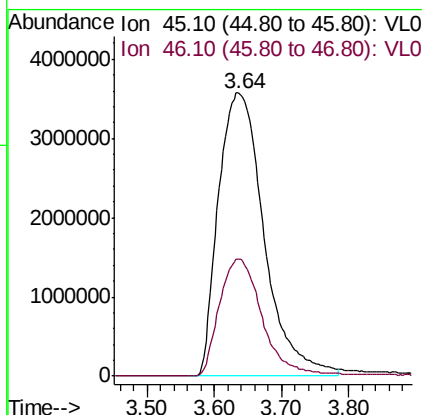
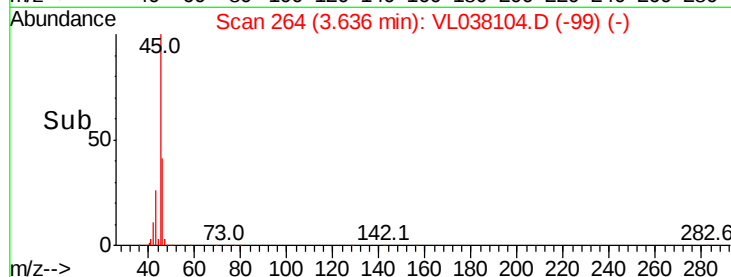
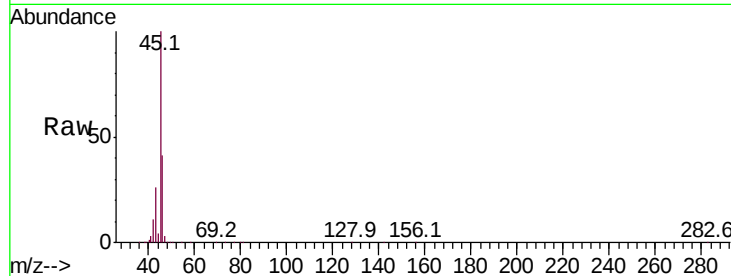


#13
Ethanol
Concen: 2354.183 ppbv
RT: 3.64
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 23 Nov 2021 18:01

Tot Ion:
Ion Ratio
45 100
46 39.

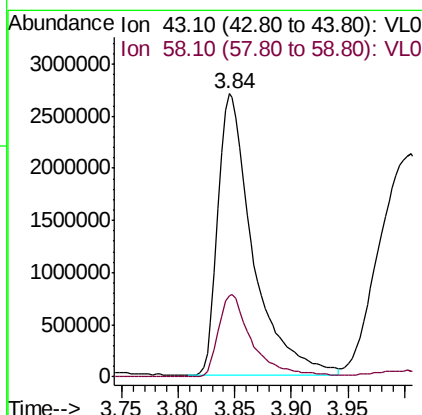
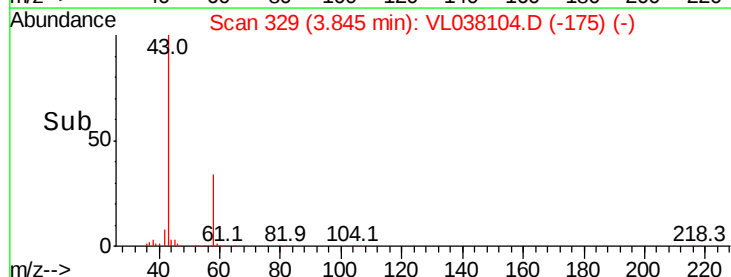
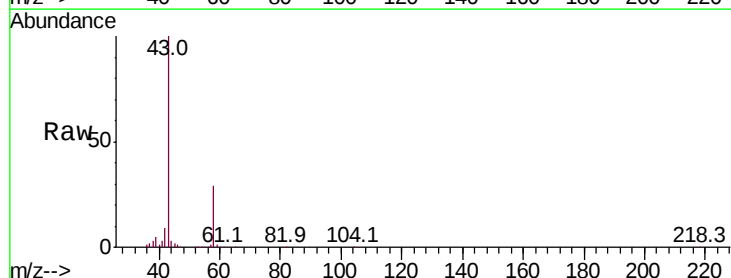
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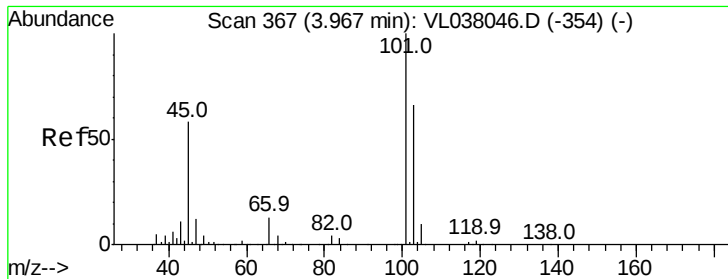
Reviewed By :Semsettin Yesilyurt 11/25/2021
Supervised By :Mahesh Dadoda 11/29/2021



#15
Acetone
Concen: 70.267 ppbv
RT: 3.84 min Scan# 329
Delta R.T. -0.01 min
Lab File: VL038104.D
Acq: 23 Nov 2021 18:01

Tgt Ion: 43 Resp: 5850756
Ion Ratio Lower Upper
43 100
58 28.4 22.4 33.6





#19

Isopropyl Alcohol

Concen: 446.521 ppbv

RT: 4.01

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 23 Nov 2021 18:01

Tot Ion:

Ion Ratio

45 100

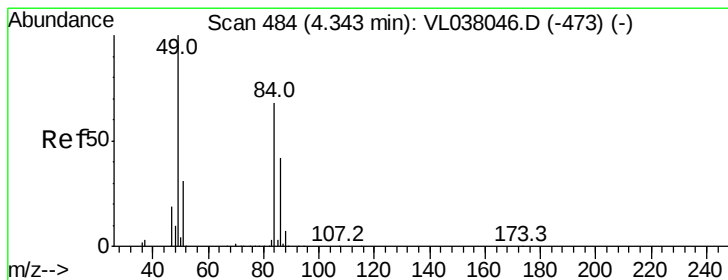
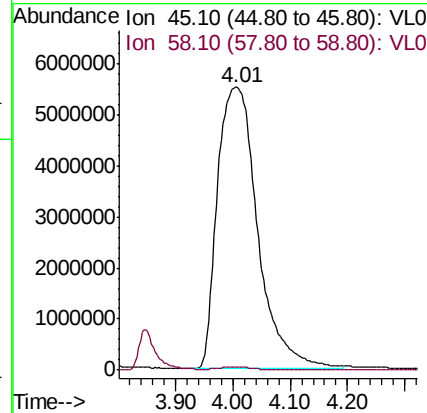
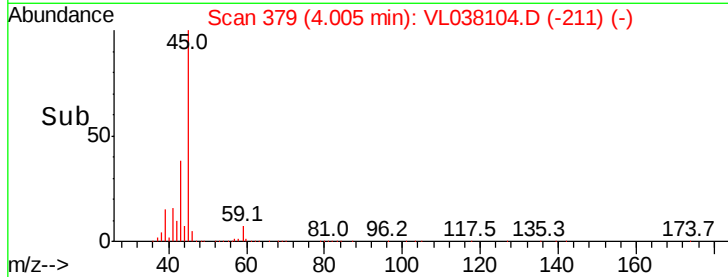
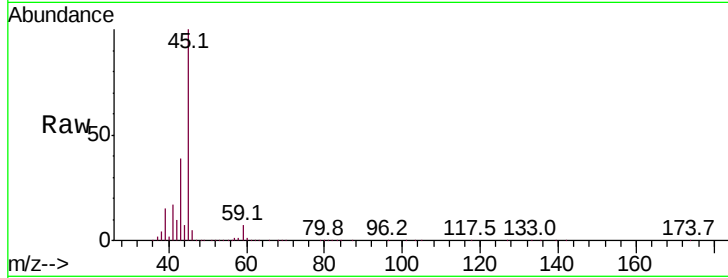
58 1.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 11/25/2021

Supervised By :Mahesh Dadoda 11/29/2021



#20

Methylene Chloride

Concen: 14.870 ppbv

RT: 4.34 min Scan# 484

Delta R.T. 0.00 min

Lab File: VL038104.D

Acq: 23 Nov 2021 18:01

Tgt Ion: 84 Resp: 693529

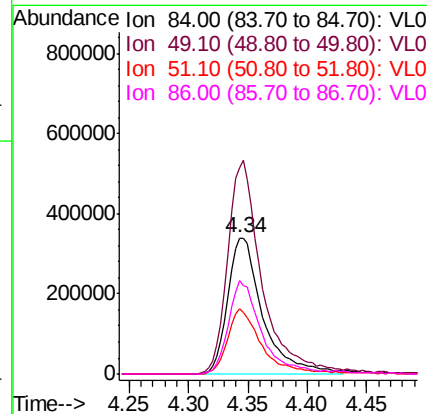
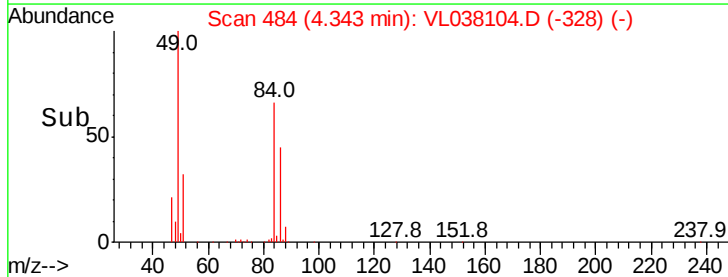
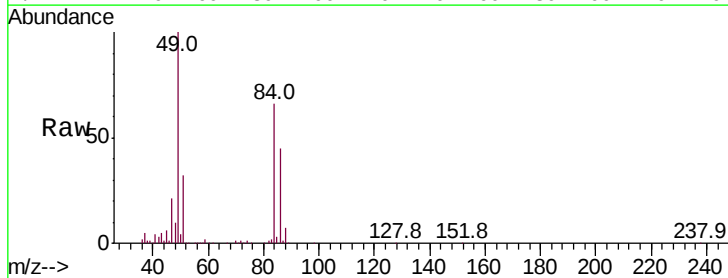
Ion Ratio Lower Upper

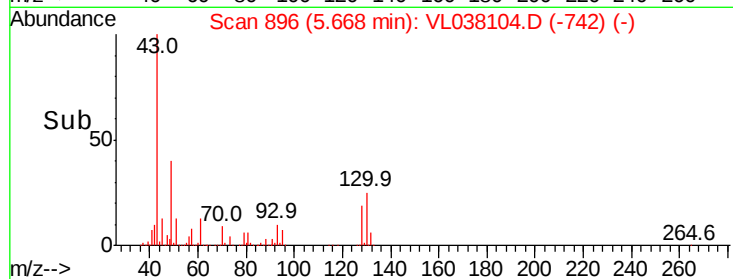
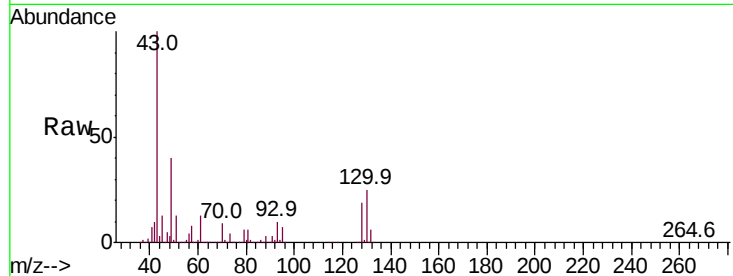
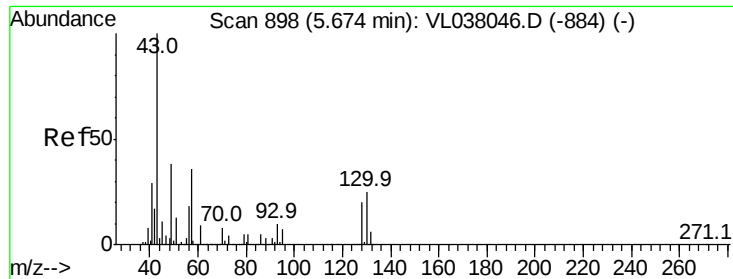
84 100

49 151.7 118.2 177.2

51 47.9 36.8 55.2

86 68.4 49.0 73.6



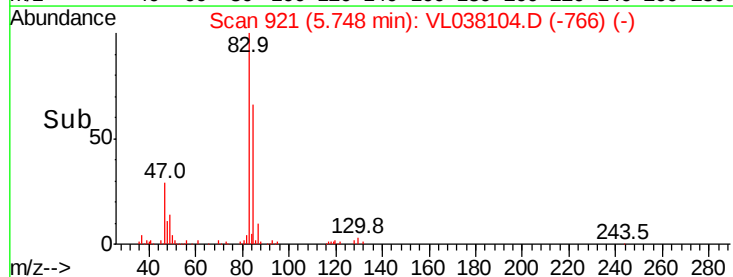
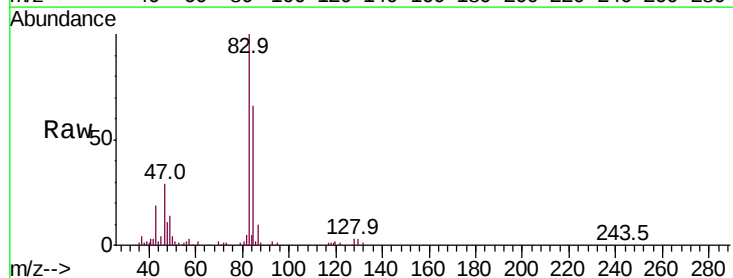
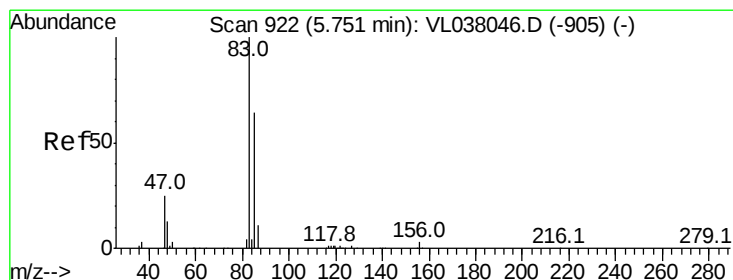
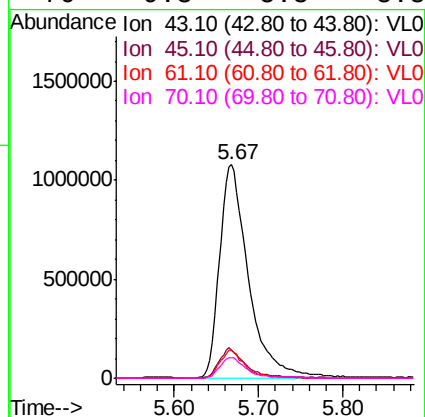


#25
Ethyl Acetate
Concen: 9.239 ppbv
RT: 5.67
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 23 Nov 2021 18:01

Tot Ion:
Ion Ratio
43 100
45 13.
61 12.
70 9.3 5.8 8.8#

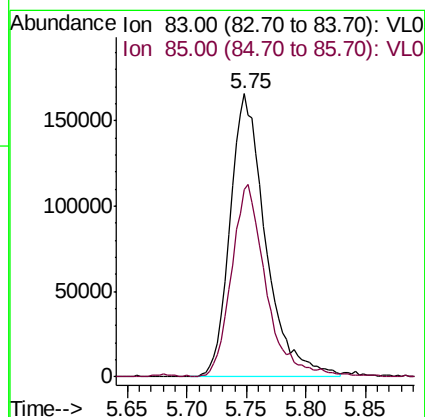
Manual Integrations
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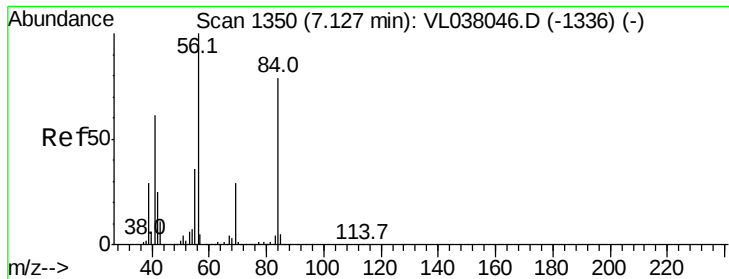
Reviewed By :Semsettin Yesilyurt 11/25/2021
Supervised By :Mahesh Dadoda 11/29/2021



#29
Chloroform
Concen: 1.751 ppbv
RT: 5.75 min Scan# 921
Delta R.T.: -0.00 min
Lab File: VL038104.D
Acq: 23 Nov 2021 18:01

Tgt Ion: 83 Resp: 344146
Ion Ratio Lower Upper
83 100
85 65.7 51.0 76.6



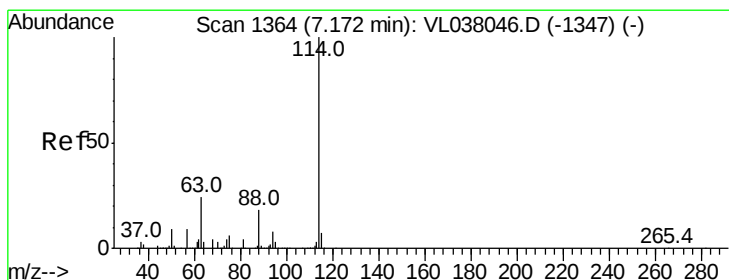
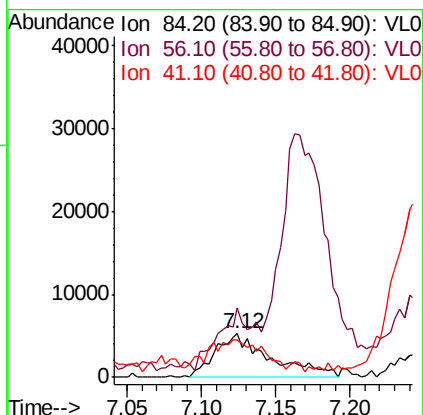
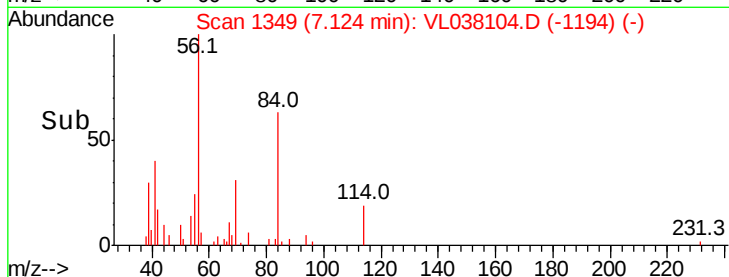
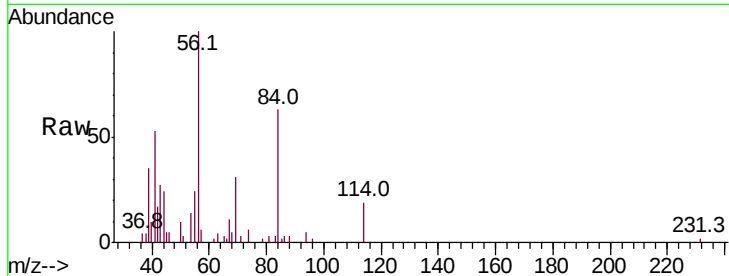


#30
Cyclohexane
Concen: 0.111 ppbv m
RT: 7.12 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 23 Nov 2021 18:01

Tot Ion:
Ion Ratio
84 100
56 0.
41 69.

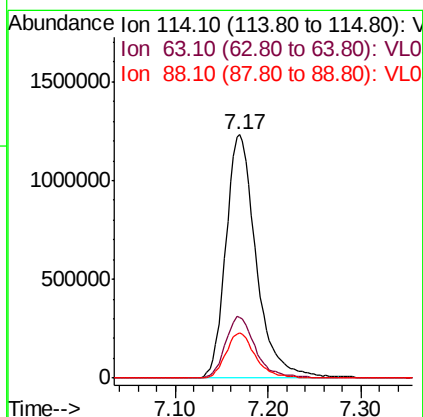
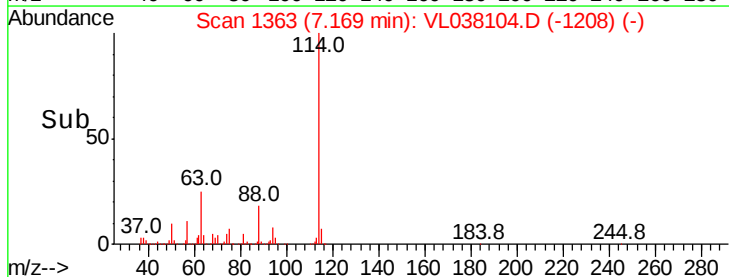
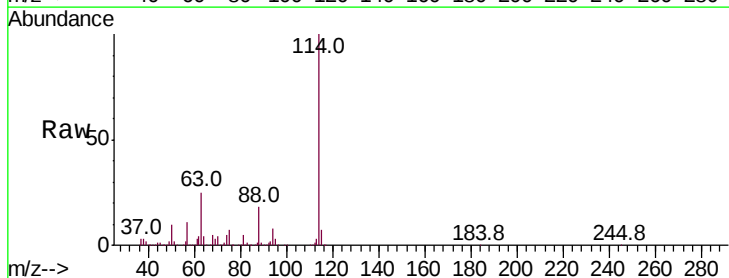
Manual Integrations
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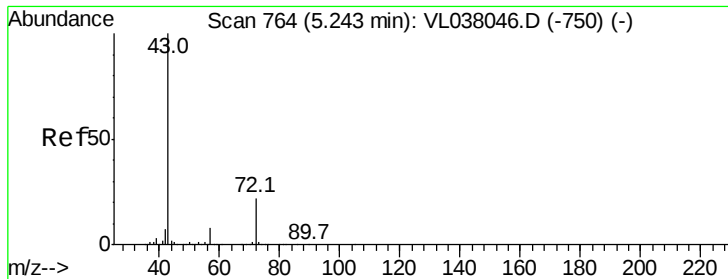
Reviewed By :Semsettin Yesilyurt 11/25/2021
Supervised By :Mahesh Dadoda 11/29/2021



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.17 min Scan# 1363
Delta R.T. -0.00 min
Lab File: VL038104.D
Acq: 23 Nov 2021 18:01

Tgt Ion:114 Resp: 2794461
Ion Ratio Lower Upper
114 100
63 25.2 19.7 29.5
88 18.3 14.4 21.6



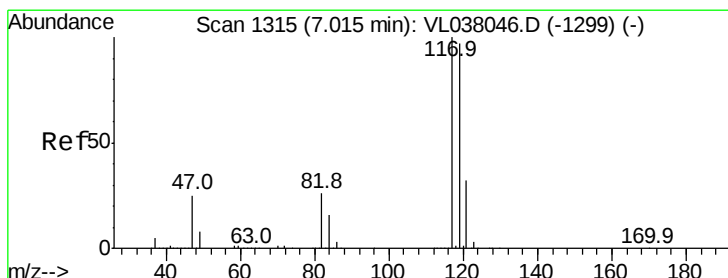
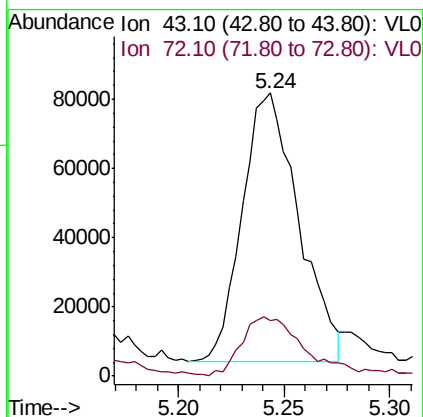
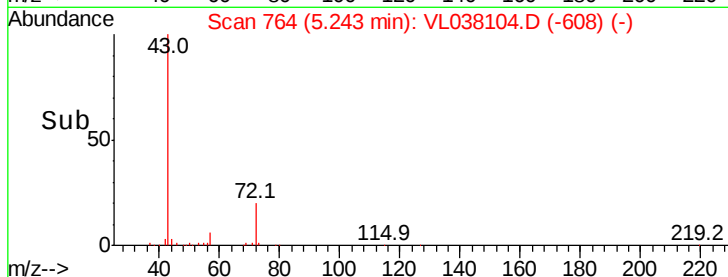
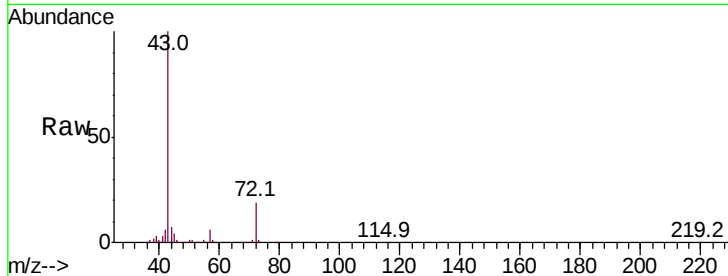


#34
2-Butanone
Concen: 1.285 ppbv
RT: 5.24
Delta R.T. MSVOA_L
Lab File: ClientSampled :
Acq: 23 Nov 2021 18:01

Tot Ion:
Ion Ratio
43 100
72 26.

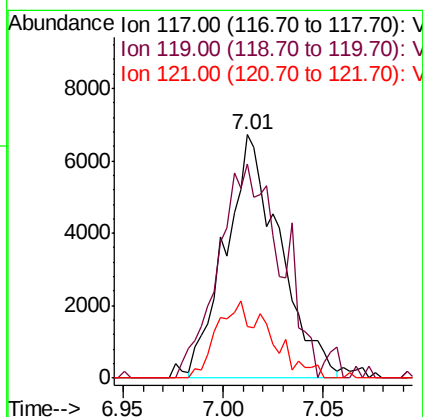
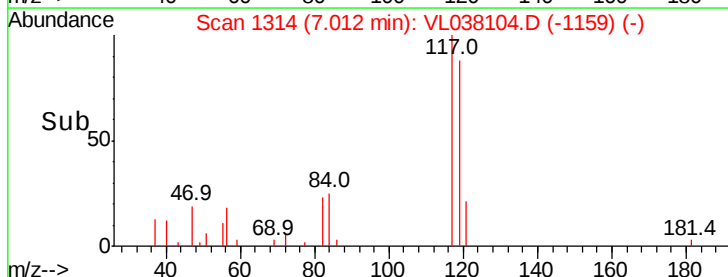
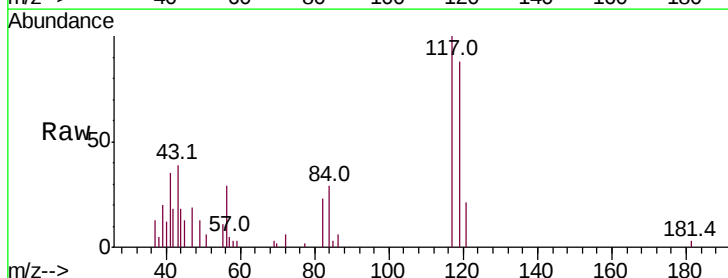
Manual Integrations
APPROVED

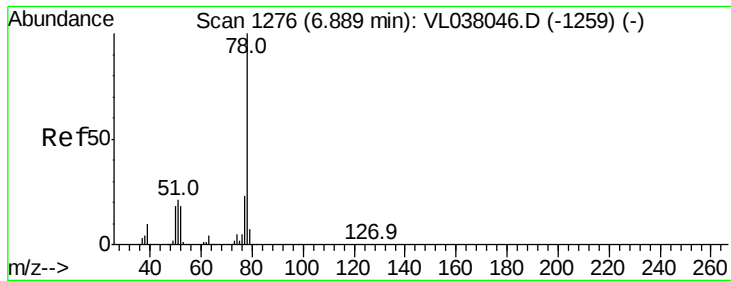
Reviewed By :Semsettin Yesilyurt 11/25/2021
Supervised By :Mahesh Dadoda 11/29/2021



#35
Carbon Tetrachloride
Concen: 0.064 ppbv m
RT: 7.01 min Scan# 1314
Delta R.T. -0.00 min
Lab File: VL038104.D
Acq: 23 Nov 2021 18:01

Tgt Ion:117 Resp: 12645
Ion Ratio Lower Upper
117 100
119 87.8 77.7 116.5
121 21.3 25.6 38.4#





#36

Benzene

Concen: 0.400 ppbv

RT: 6.88 Instrument :

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 23 Nov 2021 18:01

Tot Ion:

Ion Ratio

78 100

77 22.

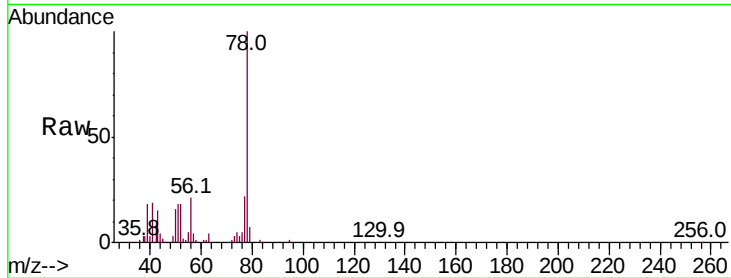
50 15.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 11/25/2021

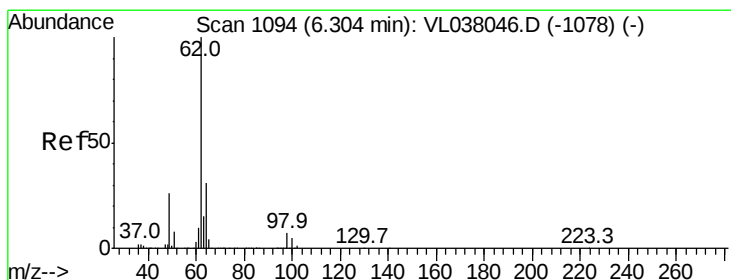
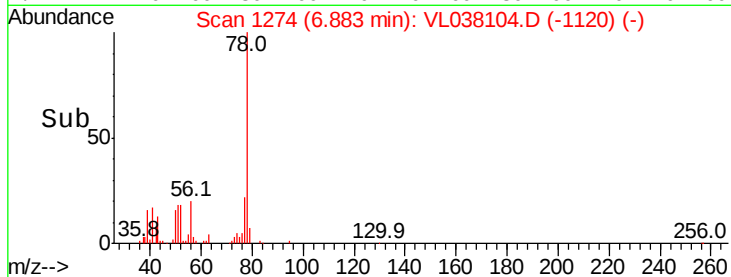
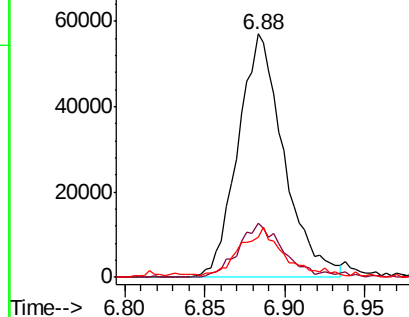
Supervised By :Mahesh Dadoda 11/29/2021



Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0



#37

1,2-Dichloroethane

Concen: 0.328 ppbv

RT: 6.30 min Scan# 1094

Delta R.T. 0.00 min

Lab File: VL038104.D

Acq: 23 Nov 2021 18:01

Tgt Ion: 62 Resp: 44223

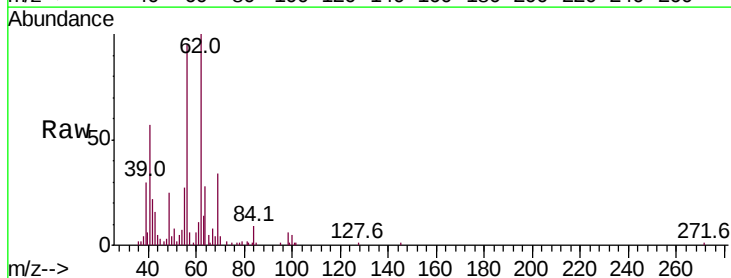
Ion Ratio Lower Upper

62 100

98 7.1

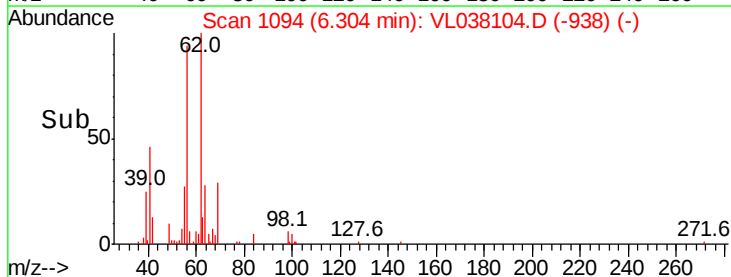
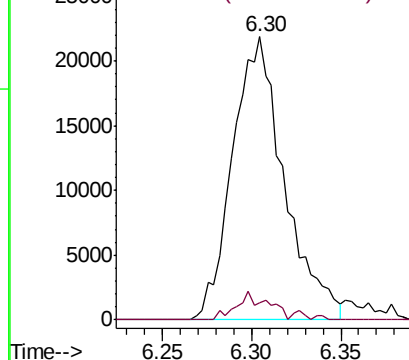
5.8

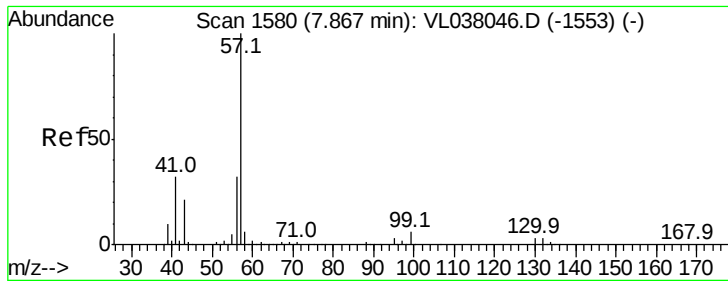
8.6



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 98.00 (97.70 to 98.70): VL0





#44

2,2,4-Trimethylpentane

Concen: 0.427 ppbv

RT: 7.86 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 23 Nov 2021 18:01

Tot Ion:

Ion Ratio

57 100

41 36.

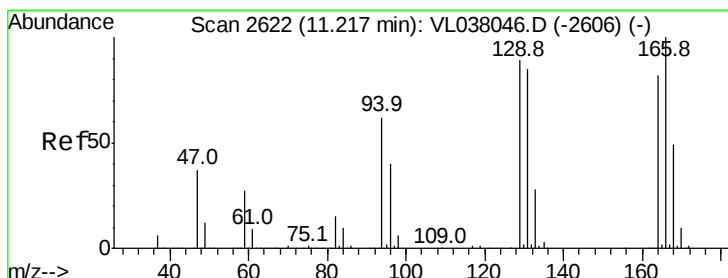
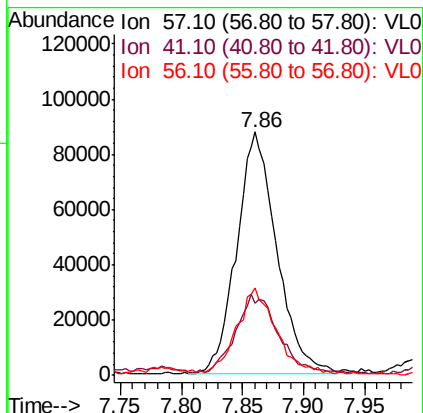
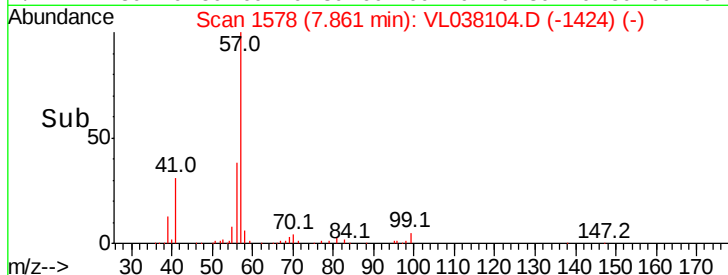
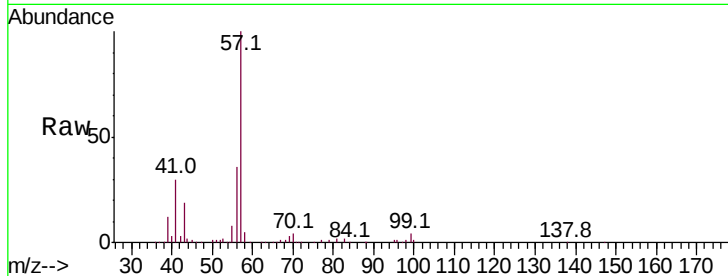
56 37.

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Reviewed By :Semsettin Yesilyurt 11/25/2021

Supervised By :Mahesh Dadoda 11/29/2021



#52

Tetrachloroethene

Concen: 0.113 ppbv m

RT: 11.22 min Scan# 2622

Delta R.T. 0.00 min

Lab File: VL038104.D

Acq: 23 Nov 2021 18:01

Tgt Ion:164 Resp: 11658

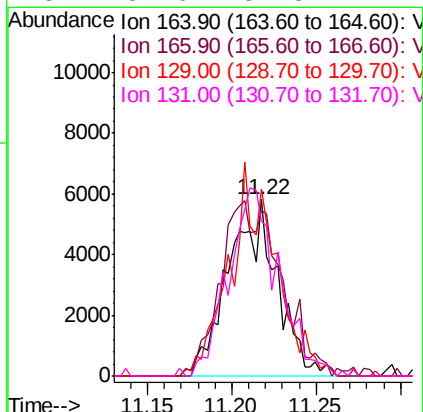
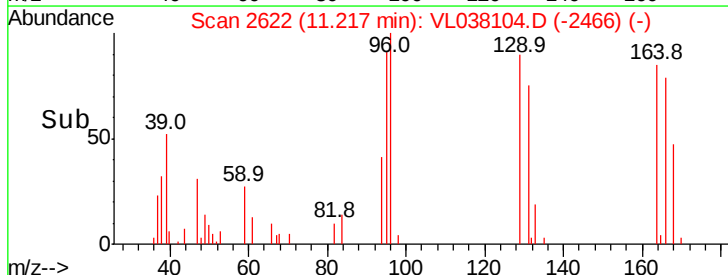
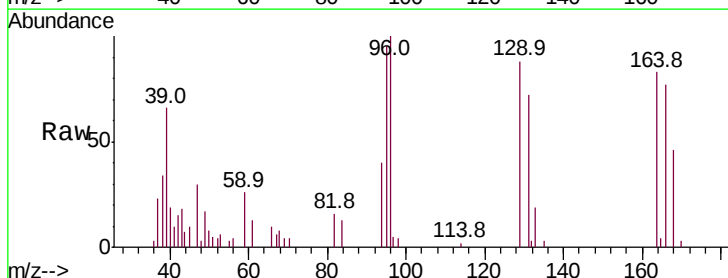
Ion Ratio Lower Upper

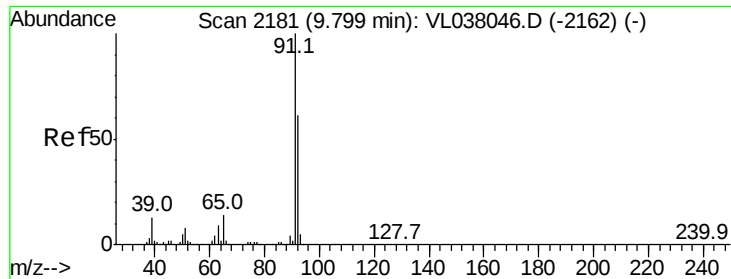
164 100

166 93.3 97.2 145.8#

129 105.8 86.9 130.3

131 87.6 82.8 124.2





#53

Toluene

Concen: 2.325 ppbv

RT: 9.80

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 23 Nov 2021 18:01

Tot Ion:

Ion Ratio

91 100

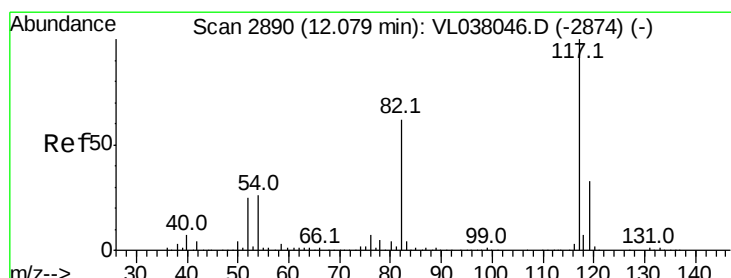
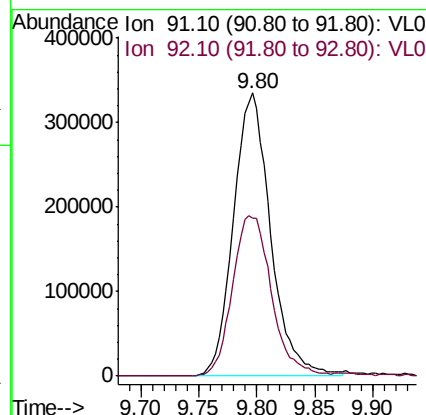
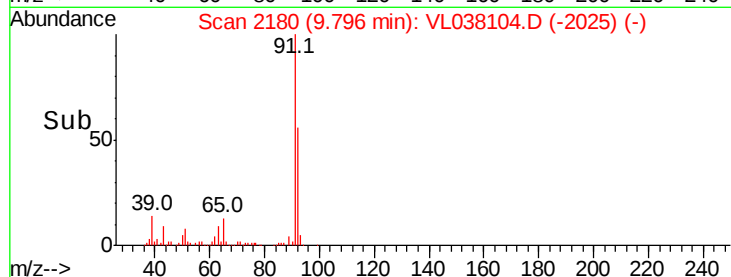
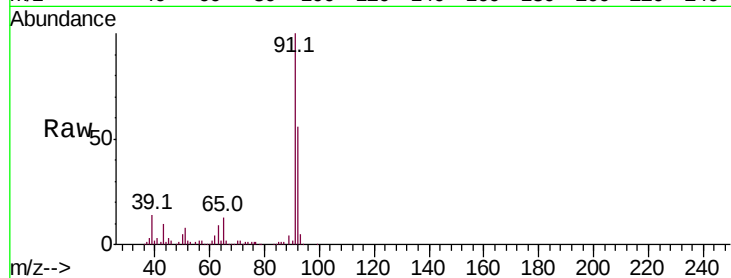
92 59.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/25/2021

Supervised By :Mahesh Dadoda 11/29/2021



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.07 min Scan# 2888

Delta R.T. -0.01 min

Lab File: VL038104.D

Acq: 23 Nov 2021 18:01

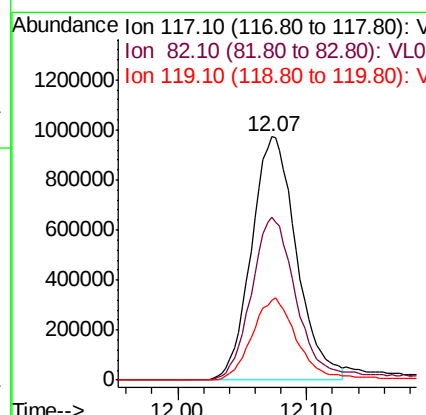
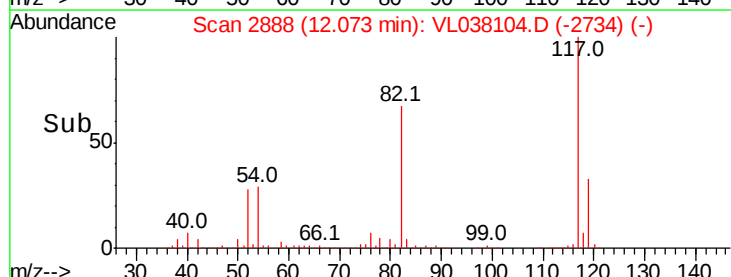
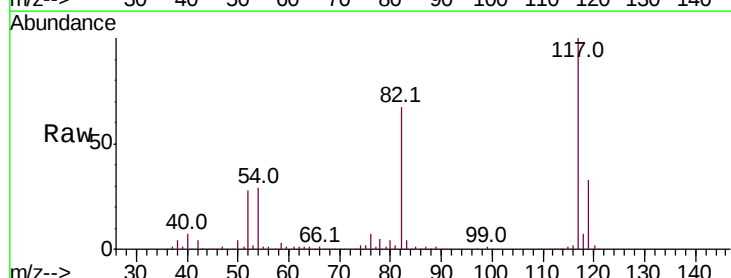
Tgt Ion:117 Resp: 2363155

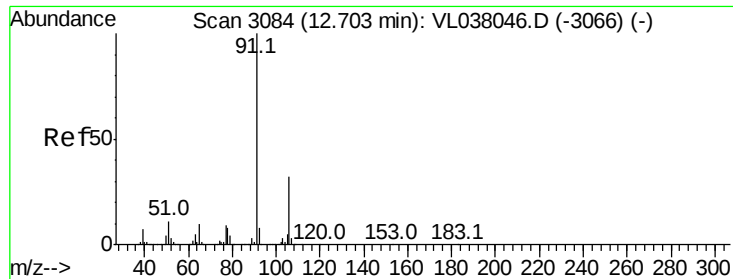
Ion Ratio Lower Upper

117 100

82 71.6 52.8 79.2

119 34.5 26.8 40.2



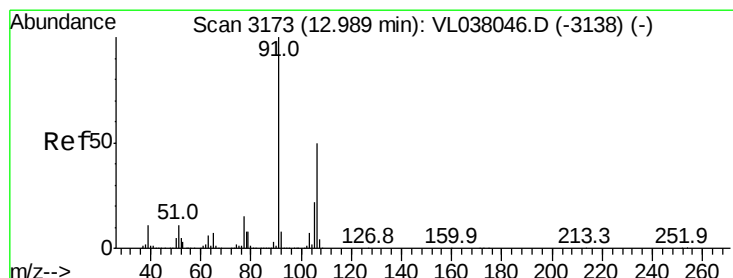
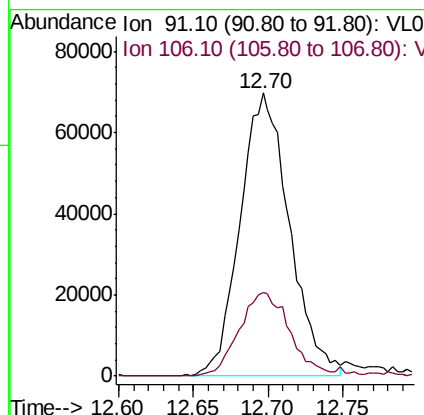
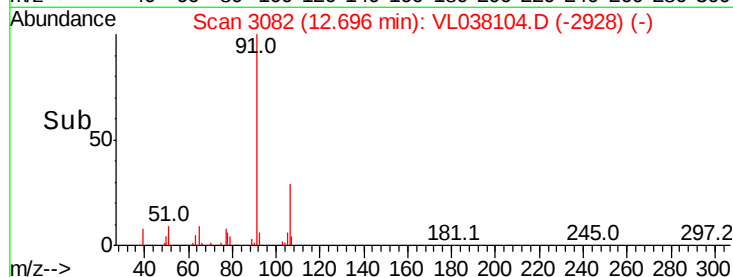
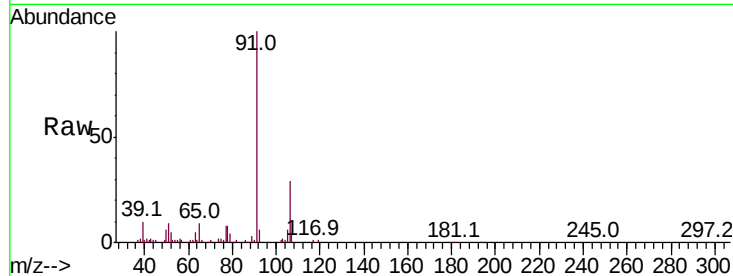


#58
Ethyl Benzene
Concen: 0.407 ppbv
RT: 12.70
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 23 Nov 2021 18:01

Tot Ion:
Ion Ratio
91 100
106 29.

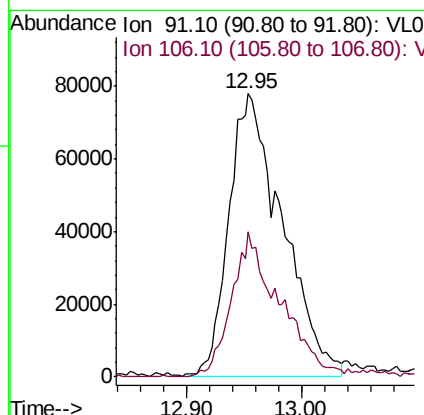
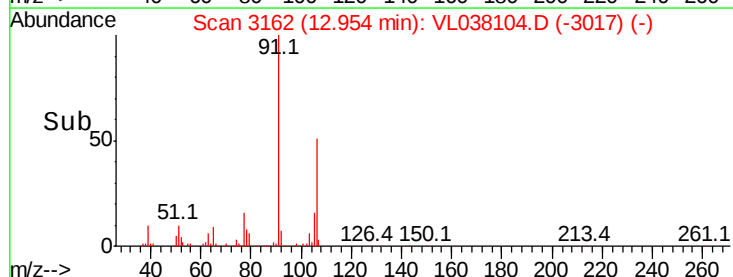
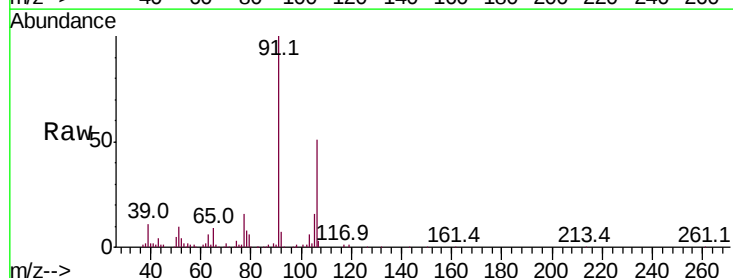
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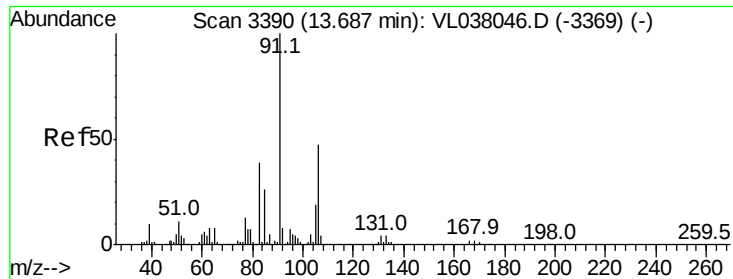
Reviewed By :Semsettin Yesilyurt 11/25/2021
Supervised By :Mahesh Dadoda 11/29/2021



#59
m/p-Xylene
Concen: 0.768 ppbv m
RT: 12.95 min Scan# 3162
Delta R.T. -0.04 min
Lab File: VL038104.D
Acq: 23 Nov 2021 18:01

Tgt Ion: 91 Resp: 252463
Ion Ratio Lower Upper
91 100
106 0.0 38.1 57.1#





#60

o-Xylene

Concen: 0.340 ppbv

RT: 13.68

Delta R.T.

Lab File:

Acq: 23 Nov 2021 18:01

Instrument:

MSVOA_L

ClientSampleId:

IA-CURATED-HOME

Tot Ion:

Ion Ratio

91 100

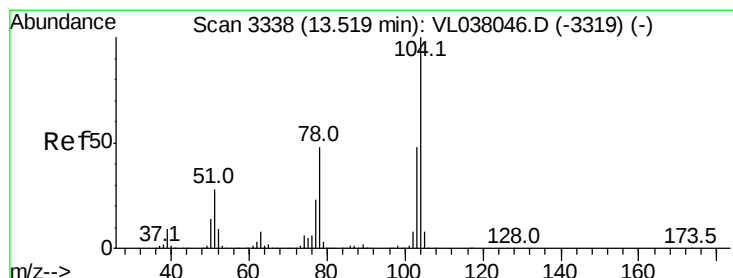
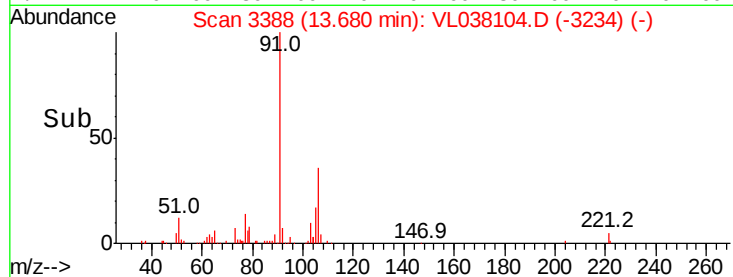
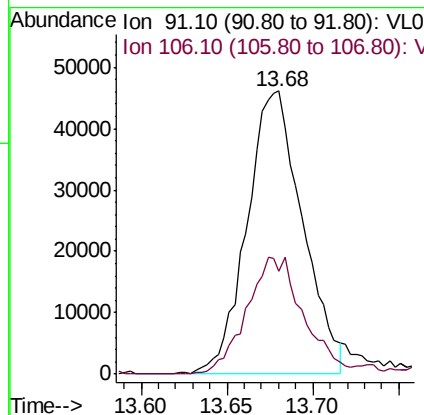
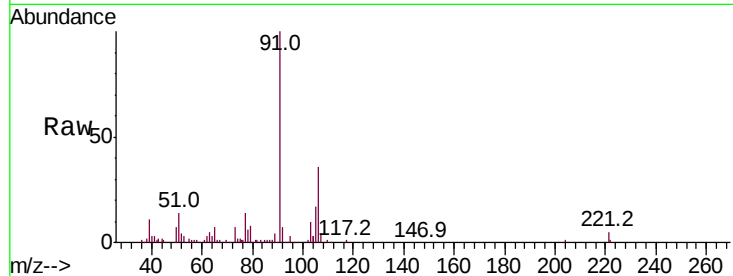
106 45.

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Reviewed By :Semsettin Yesilyurt 11/25/2021

Supervised By :Mahesh Dadoda 11/29/2021



#61

Styrene

Concen: 0.460 ppbv

RT: 13.52 min Scan# 3337

Delta R.T. -0.00 min

Lab File: VL038104.D

Acq: 23 Nov 2021 18:01

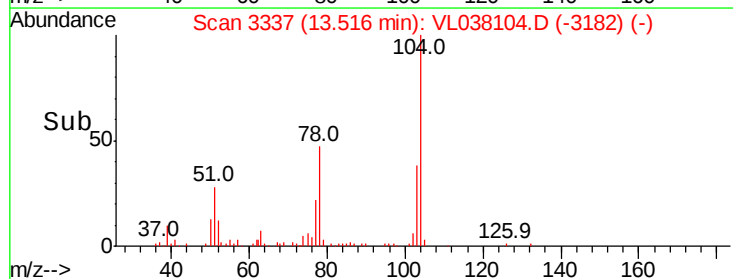
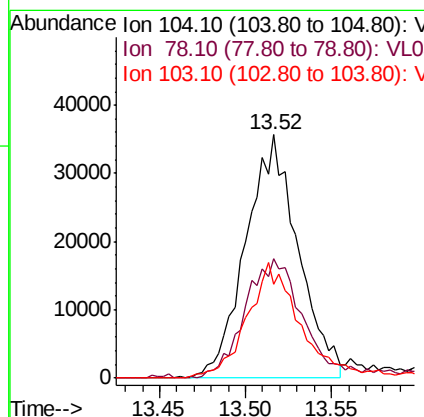
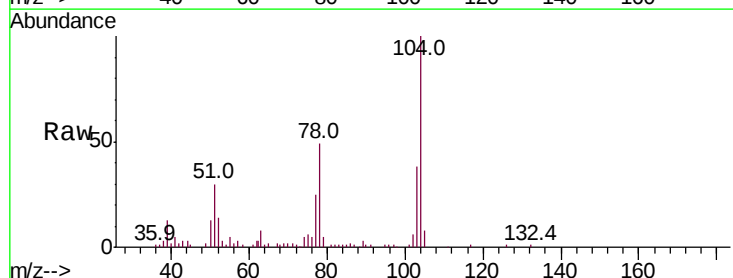
Tgt Ion:104 Resp: 75276

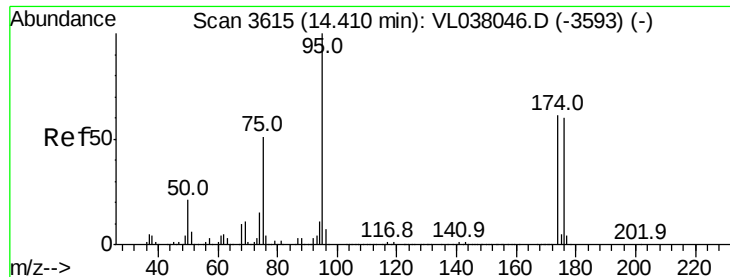
Ion Ratio Lower Upper

104 100

78 58.4 39.8 59.6

103 49.2 38.2 57.2



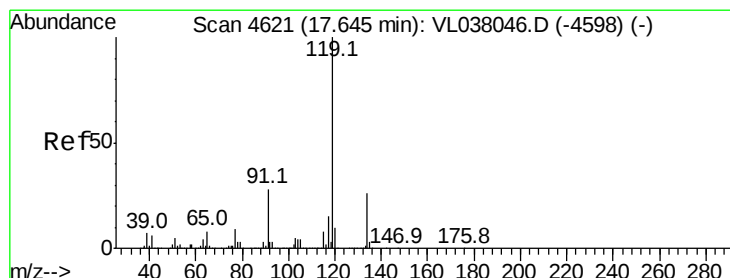
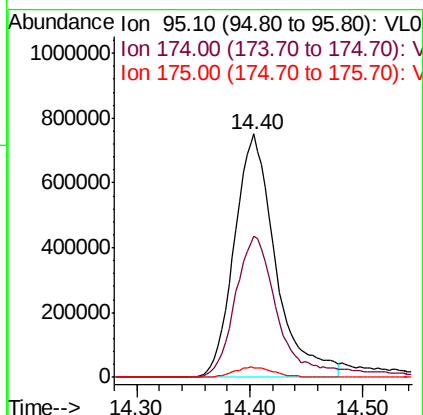
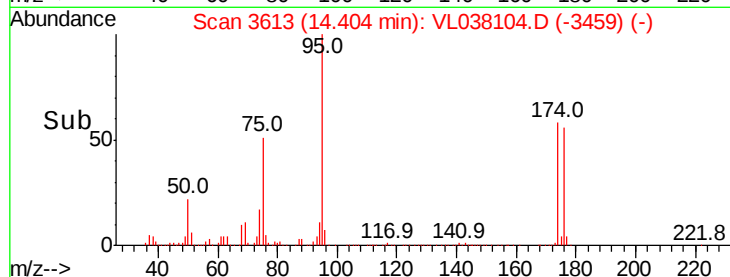
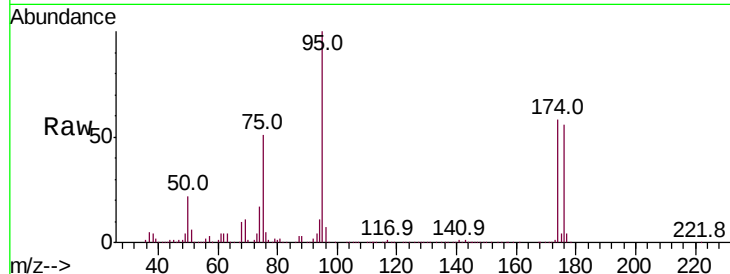


#68
1-Bromo-4-Fluorobenzene
Concen: 11.183 ppbv
RT: 14.40 min
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 23 Nov 2021 18:01

Tot Ion:
Ion Ratio
95 100
174 62.
175 4.

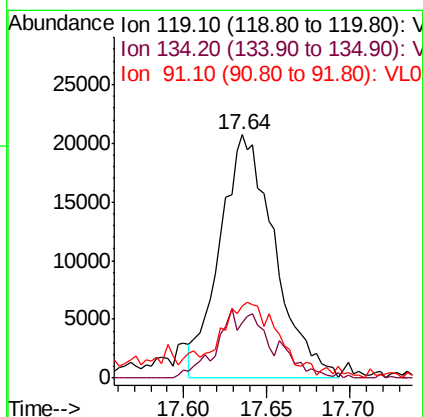
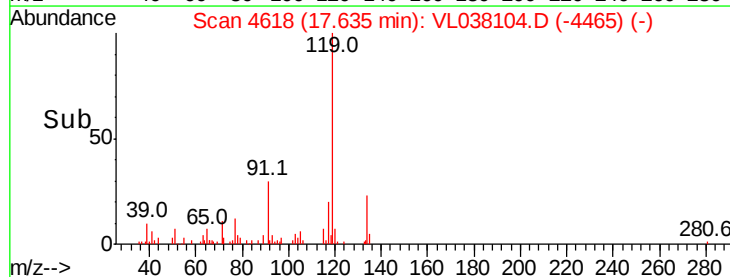
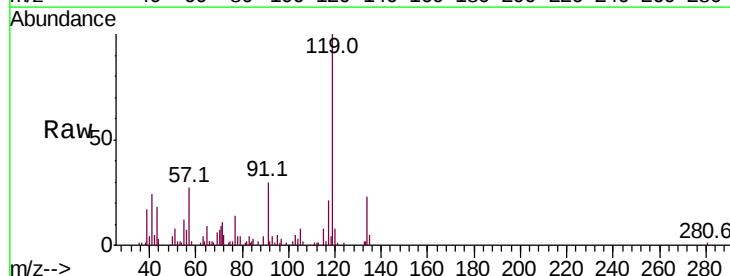
Manual Integrations
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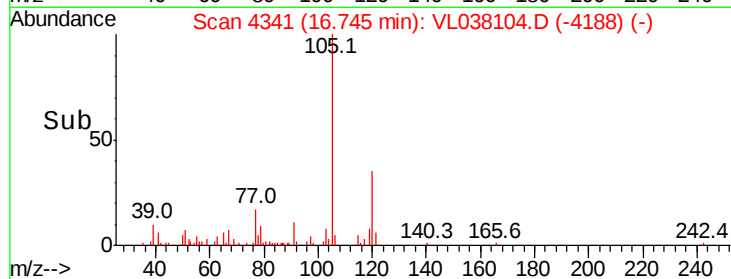
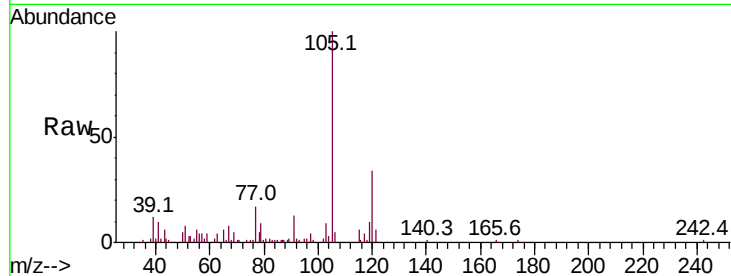
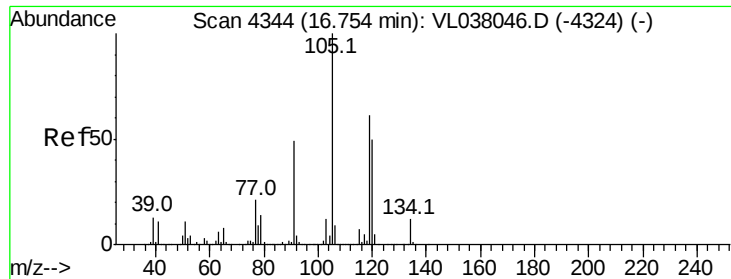
Reviewed By :Semsettin Yesilyurt 11/25/2021
Supervised By :Mahesh Dadoda 11/29/2021



#69
p-Isopropyltoluene
Concen: 0.115 ppbv
RT: 17.64 min Scan# 4618
Delta R.T. -0.01 min
Lab File: VL038104.D
Acq: 23 Nov 2021 18:01

Tgt Ion:119 Resp: 47637
Ion Ratio Lower Upper
119 100
134 28.4 20.6 30.8
91 0.0 22.2 33.4#





#74
 1,2,4-Trimethylbenzene
 Concen: 0.279 ppbv
 RT: 16.74
 Delta R.T: MSVOA_L
 Lab File: ClientSampleId :
 Acq: 23 Nov 2021 16:01

Tot Ion:1
 Ion Rati
 105 100
 120 34.
 91 11.
 77 15.3 16.6 25.0#

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 11/25/2021
 Supervised By :Mahesh Dadoda 11/29/2021

