

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL112321\
 Data File : VL038110.D
 Acq On : 23 Nov 2021 21:56
 Operator : SY/AP
 Sample : M4805-12
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA L
 ClientSampleId :
 IA-CURVY-BRIDE

Manual Integrations
 APPROVED

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

Quant Time: Nov 26 04:38:12 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	900680	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	2632744	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.07	117	2285768	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.40	95	1821049	11.04	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	110.40%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	3.05	85	35520	0.239	ppbv	98
4) Chloromethane	3.14	50	39201m	0.609	ppbv	
9) Propene	3.02	41	412985m	5.929	ppbv	
10) Heptane	8.11	43	177069	1.028	ppbv	99
11) Trichlorofluoromethane	3.95	101	134929	0.954	ppbv	100
13) Ethanol	3.65	45	27025519	4014.644	ppbv	99
15) Acetone	3.84	43	10643771	136.301	ppbv	94
19) Isopropyl Alcohol	4.01	45	14224862	252.110	ppbv #	99
20) Methylene Chloride	4.34	84	522282	11.941	ppbv	97
25) Ethyl Acetate	5.66	43	1762717	6.792	ppbv #	94
29) Chloroform	5.75	83	89344	0.485	ppbv	97
30) Cyclohexane	7.11	84	28923m	0.255	ppbv	
34) 2-Butanone	5.24	43	87077m	0.820	ppbv	
35) Carbon Tetrachloride	7.01	117	13066m	0.071	ppbv	
36) Benzene	6.88	78	158278m	0.603	ppbv	
44) 2,2,4-Trimethylpentane	7.85	57	249213	0.567	ppbv	94
52) Tetrachloroethene	11.20	164	29701m	0.306	ppbv	
53) Toluene	9.79	91	756820	2.505	ppbv	98
58) Ethyl Benzene	12.69	91	156143	0.413	ppbv	92
59) m/p-Xylene	12.95	91	219817m	0.691	ppbv	
60) o-Xylene	13.67	91	74443	0.252	ppbv	97
61) Styrene	13.51	104	20586m	0.130	ppbv	
69) p-Isopropyltoluene	17.64	119	42434	0.106	ppbv #	83
74) 1,2,4-Trimethylbenzene	16.73	105	42096m	0.131	ppbv	

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

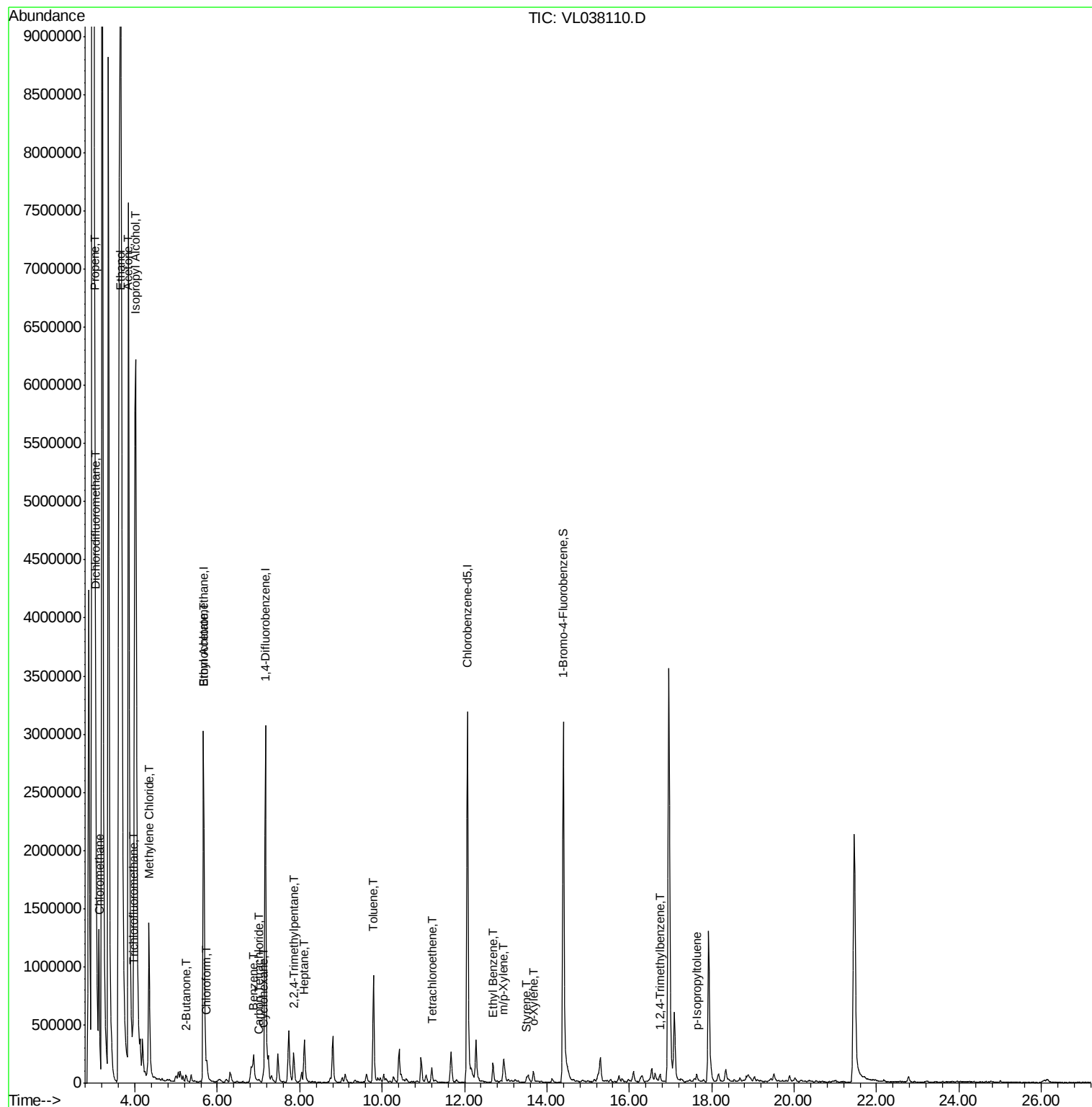
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL112321\
Data File : VL038110.D
Acq On : 23 Nov 2021 21:56
Operator : SY/AP
Sample : M4805-12
Misc : 400mL/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

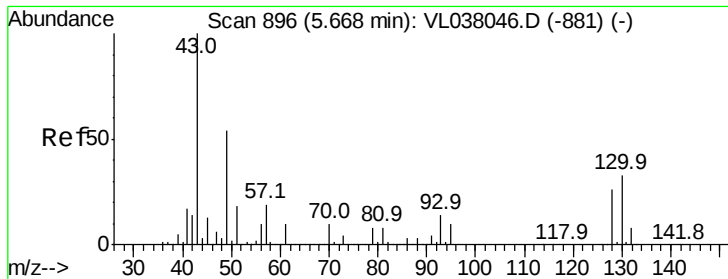
Instrument :
MSVOA_L
ClientSampleId :
IA-CURVY-BRIDE

Quant Time: Nov 26 04:38:12 2021
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL111821
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:
QLast Update : Thu Nov 18 13:16:09 2021
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Supervised By :Mahesh Dadoda 11/29/2021





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: IA-CURVY-BRIDE

Acq: 23 Nov 2021 21:50

Tot Ion:

Ion Ratio

49 100

128 49.

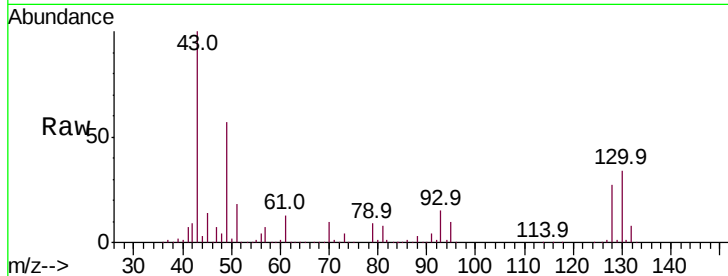
130 63.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/29/2021

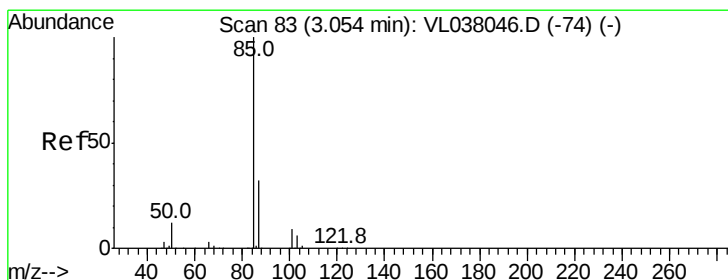
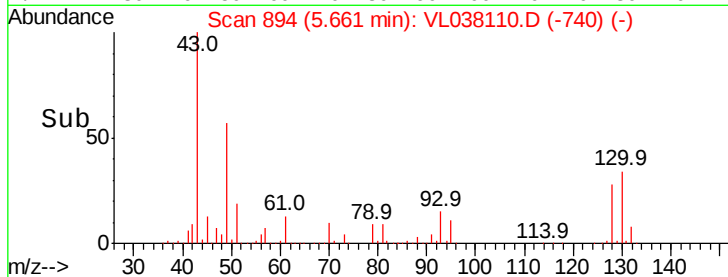
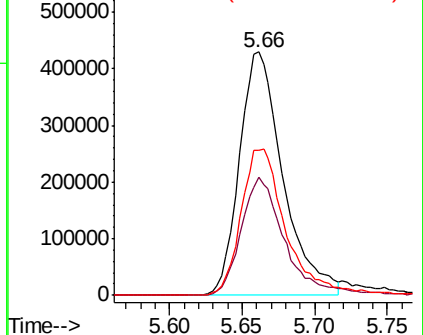
Supervised By :Mahesh Dadoda 11/29/2021



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 0.239 ppbv

RT: 3.05 min Scan# 82

Delta R.T. -0.00 min

Lab File: VL038110.D

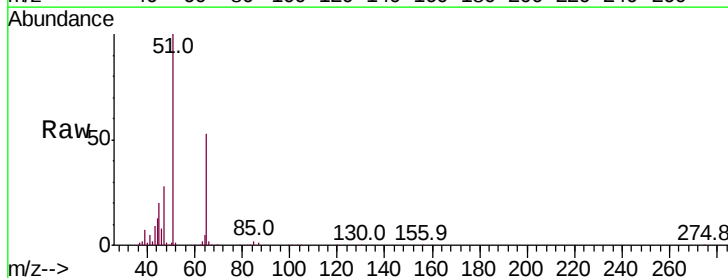
Acq: 23 Nov 2021 21:56

Tgt Ion: 85 Resp: 35520

Ion Ratio Lower Upper

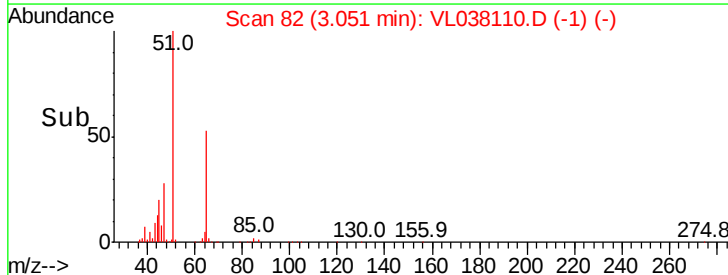
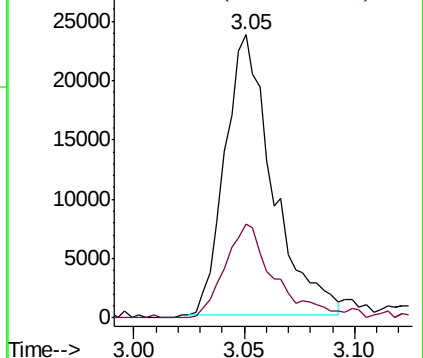
85 100

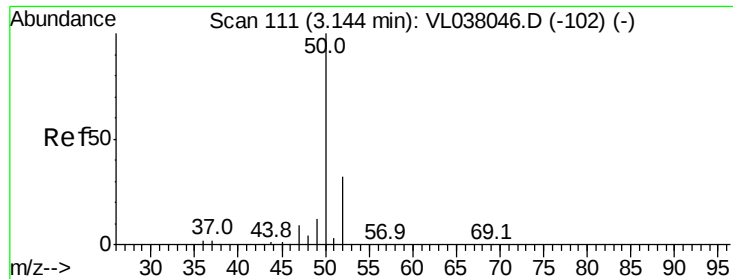
87 33.5 25.8 38.6



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#4

Chloromethane

Concen: 0.609 ppbv m

RT: 3.14 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 23 Nov 2021 21:56

Tot Ion:

Ion Ratio

50 100

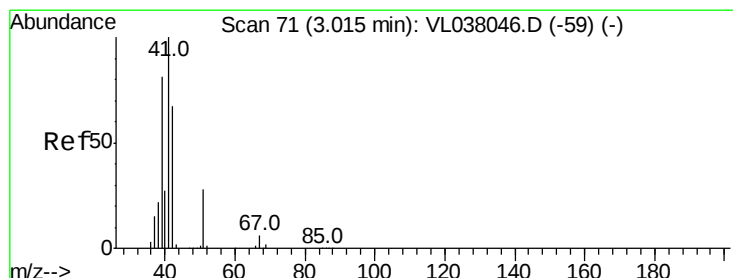
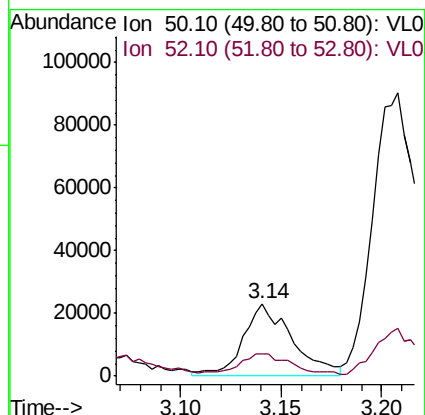
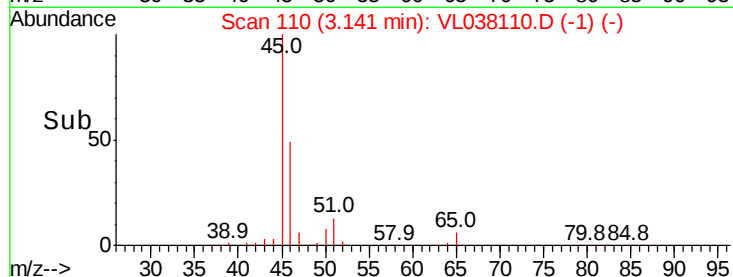
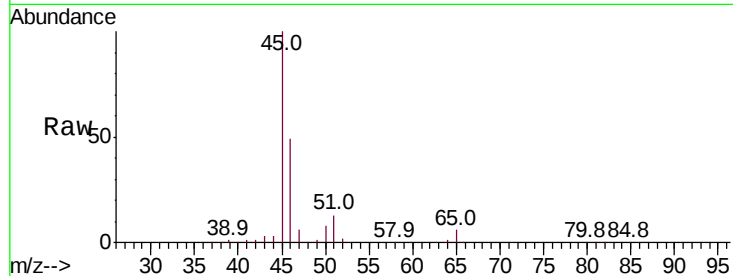
52 31.

Manual Integrations

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#9

Propene

Concen: 5.929 ppbv m

RT: 3.02 min Scan# 74

Delta R.T. 0.01 min

Lab File: VL038110.D

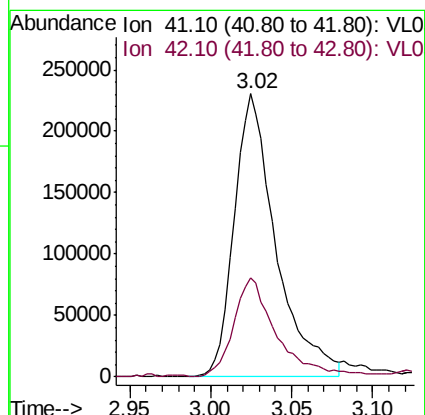
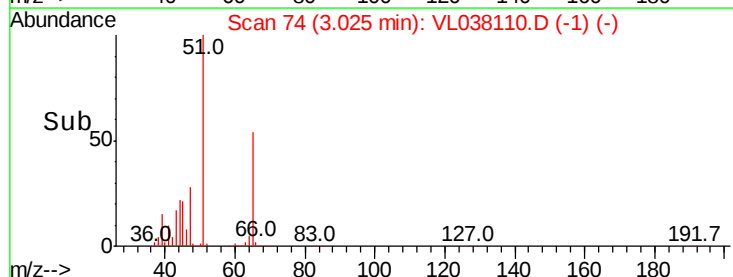
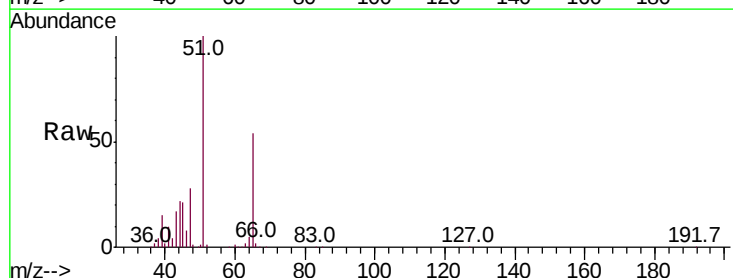
Acq: 23 Nov 2021 21:56

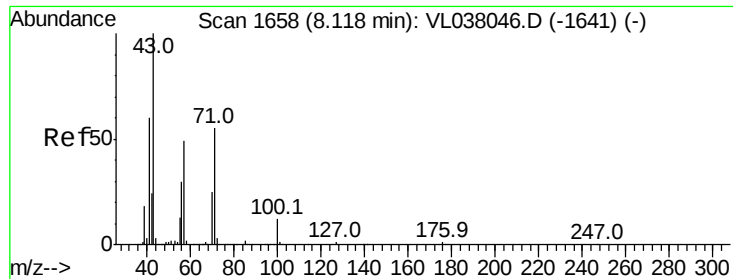
Tgt Ion: 41 Resp: 412985

Ion Ratio Lower Upper

41 100

42 1080.4 53.8 80.8#



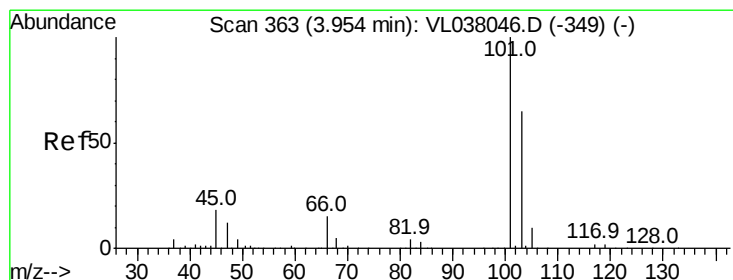
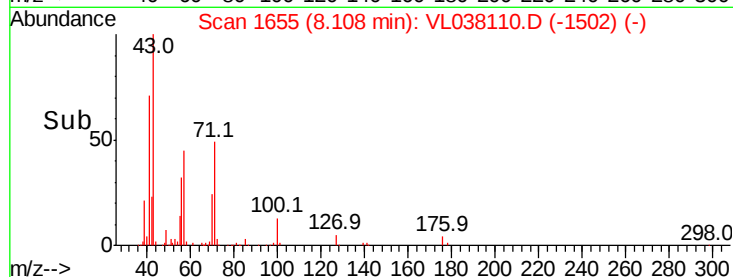
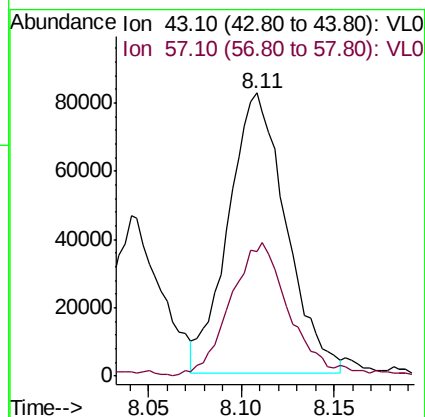
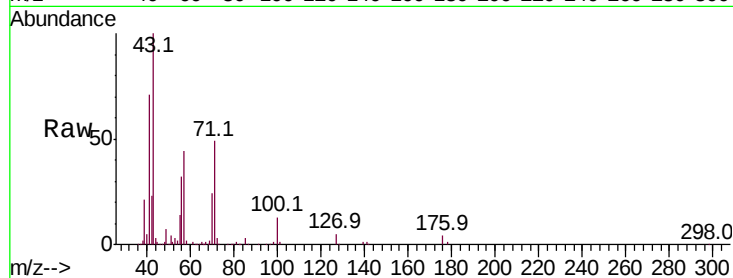


#10
Heptane
Concen: 1.028 ppbv
RT: 8.11
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 23 Nov 2021 21:50

Tot Ion:
Ion Ratio
43 100
57 50.

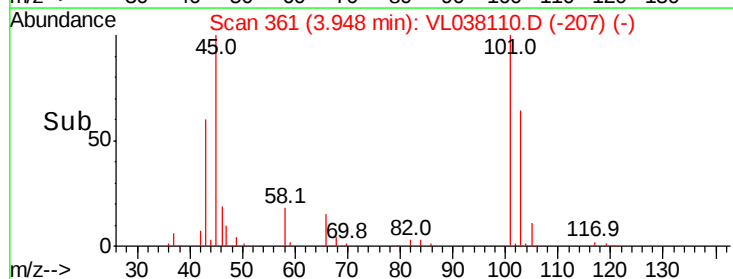
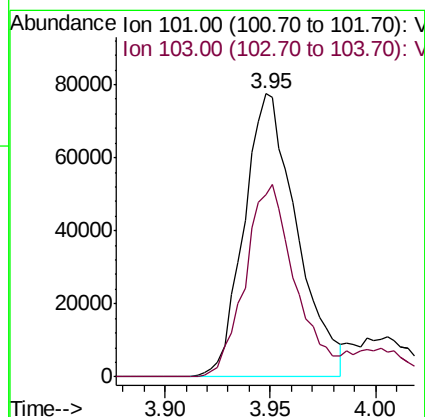
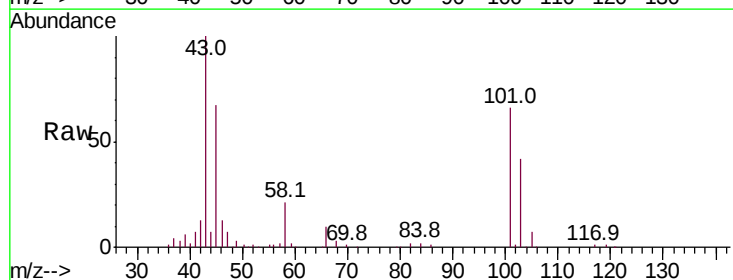
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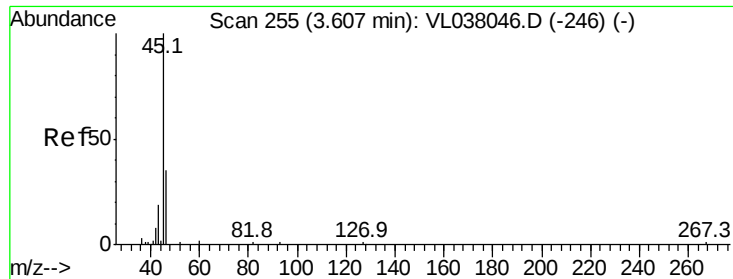
Reviewed By :Semsettin Yesilyurt 11/29/2021
Supervised By :Mahesh Dadoda 11/29/2021



#11
Trichlorofluoromethane
Concen: 0.954 ppbv
RT: 3.95 min Scan# 361
Delta R.T. -0.01 min
Lab File: VL038110.D
Acq: 23 Nov 2021 21:56

Tgt Ion:101 Resp: 134929
Ion Ratio Lower Upper
101 100
103 64.6 51.8 77.6





#13

Ethanol

Concen: 4014.644 ppbv

RT: 3.65

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 23 Nov 2021 21:50

Tot Ion:

Ion Ratio

45 100

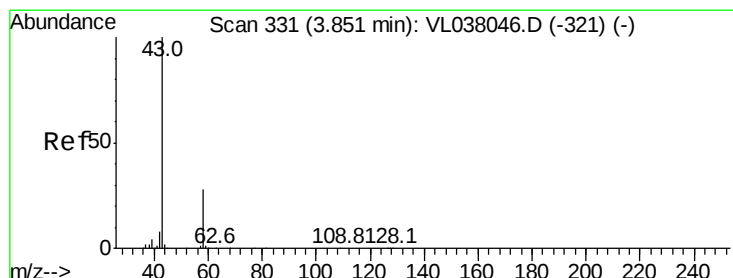
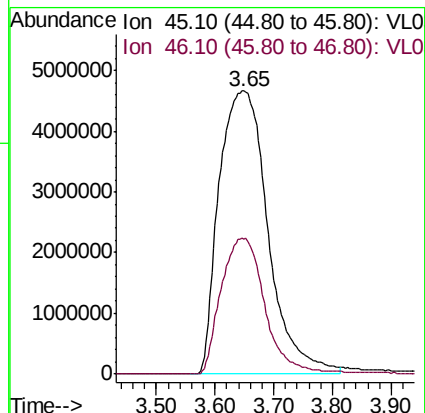
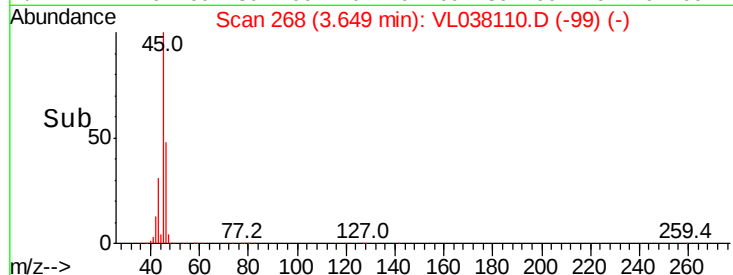
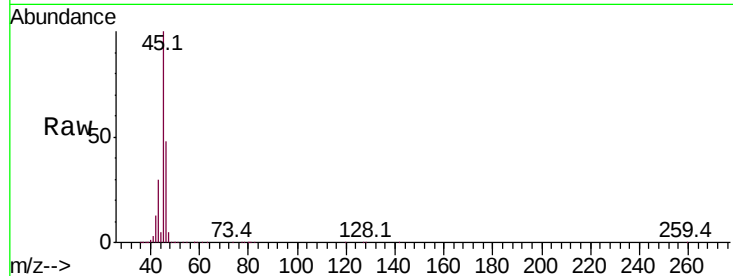
46 43.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 11/29/2021

Supervised By :Mahesh Dadoda 11/29/2021



#15

Acetone

Concen: 136.301 ppbv

RT: 3.84 min Scan# 329

Delta R.T. -0.01 min

Lab File: VL038110.D

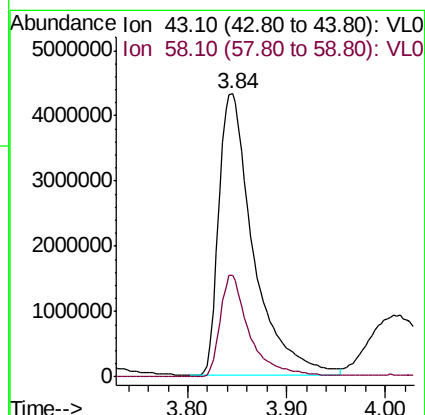
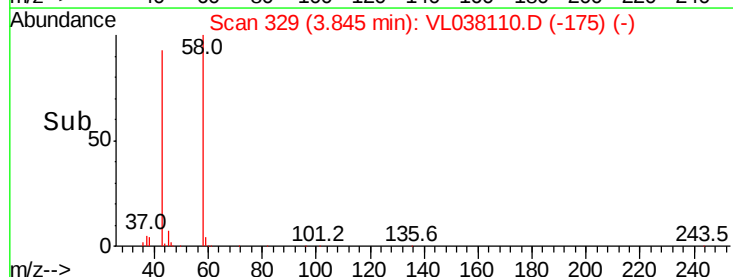
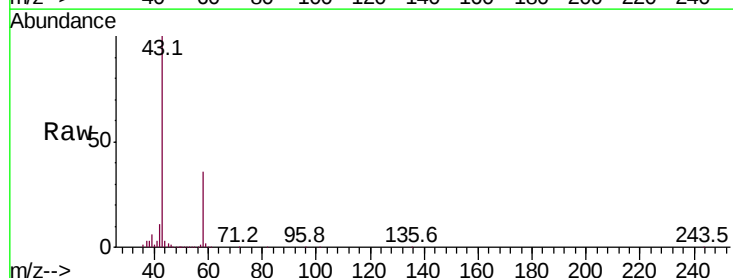
Acq: 23 Nov 2021 21:56

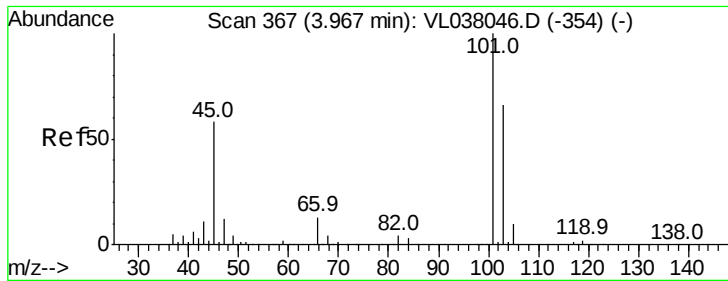
Tgt Ion: 43 Resp:10643771

Ion Ratio Lower Upper

43 100

58 31.3 22.4 33.6





#19

Isopropyl Alcohol

Concen: 252.110 ppbv

RT: 4.01 Instrument :

Delta R.T. MSVOA_1

Lab File: ClientSampleId :

Acq: 23 Nov 2021 21:56

Tot Ion:

Ion Ratio

45 100

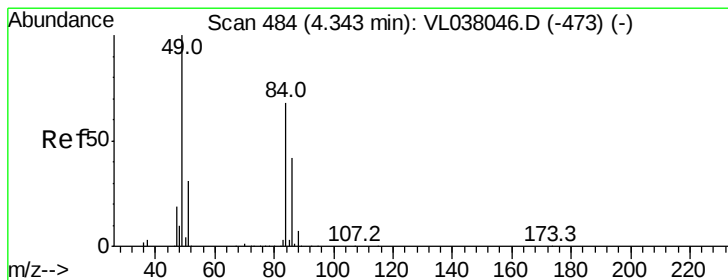
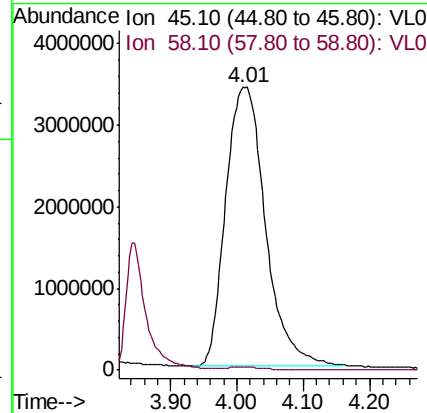
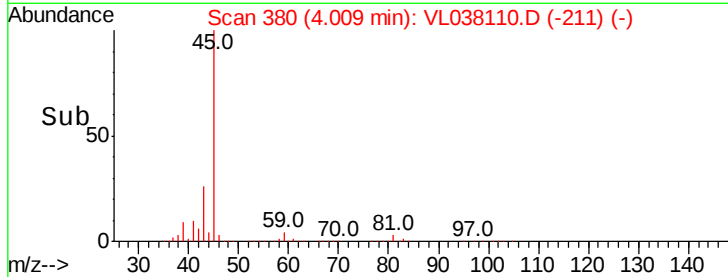
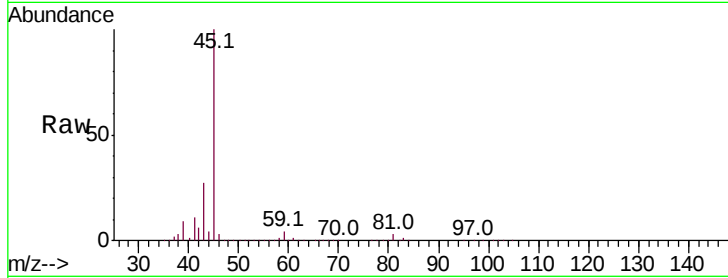
58 1.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 11/29/2021

Supervised By :Mahesh Dadoda 11/29/2021



#20

Methylene Chloride

Concen: 11.941 ppbv

RT: 4.34 min Scan# 484

Delta R.T. 0.00 min

Lab File: VL038110.D

Acq: 23 Nov 2021 21:56

Tgt Ion: 84 Resp: 522282

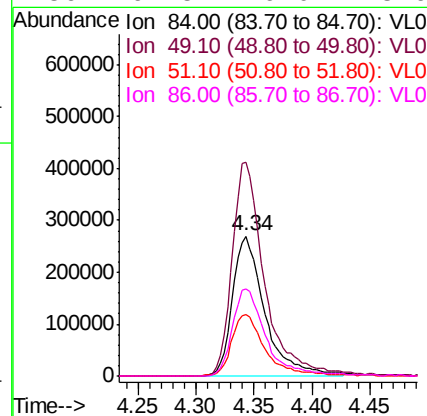
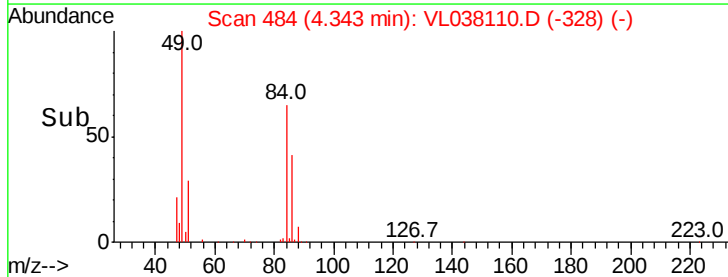
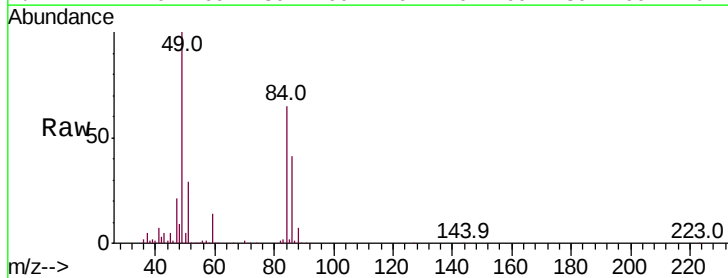
Ion Ratio Lower Upper

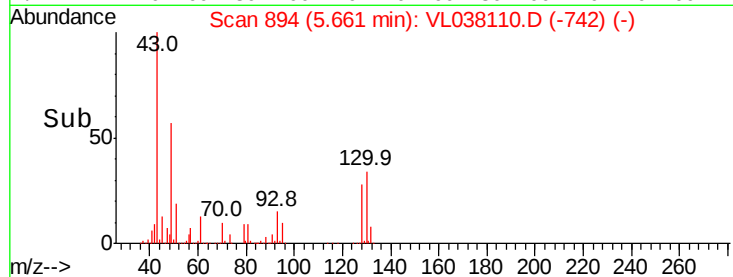
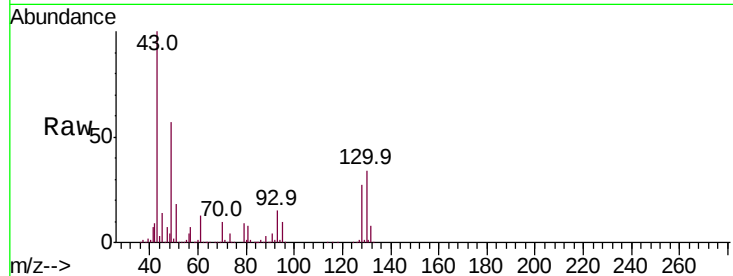
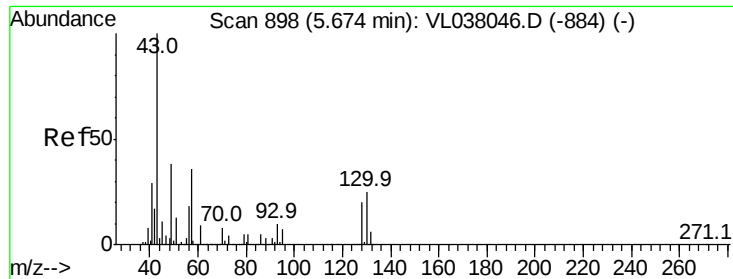
84 100

49 153.0 118.2 177.2

51 44.3 36.8 55.2

86 62.5 49.0 73.6



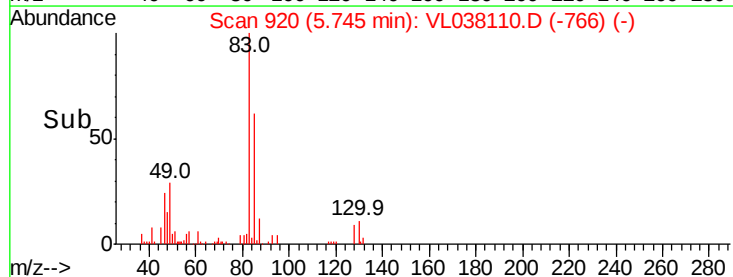
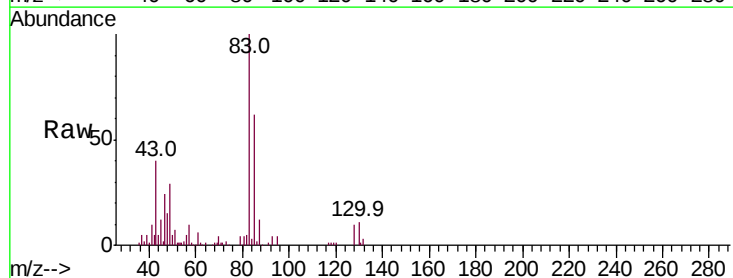
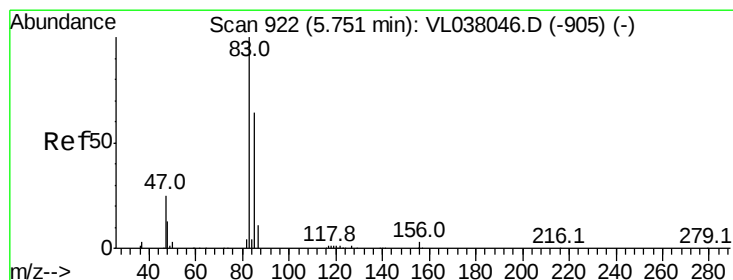
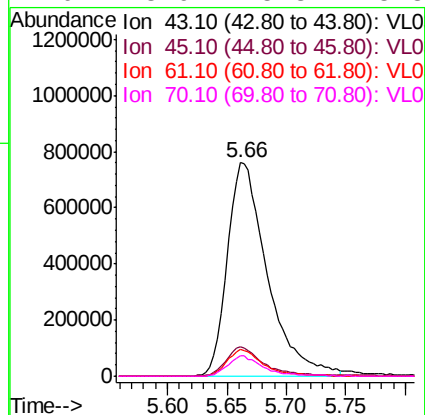


#25
Ethyl Acetate
Concen: 6.792 ppbv
RT: 5.66
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 23 Nov 2021 21:50

Tot Ion:
Ion Ratio
43 100
45 13.
61 11.
70 8.9 5.8 8.8#

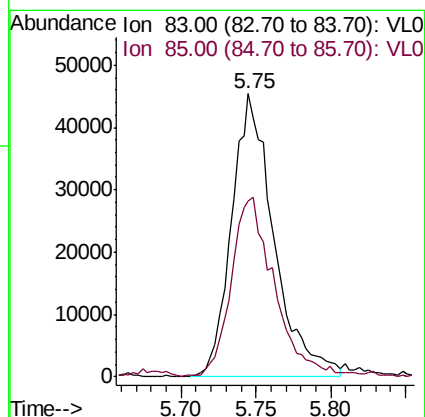
Manual Integrations
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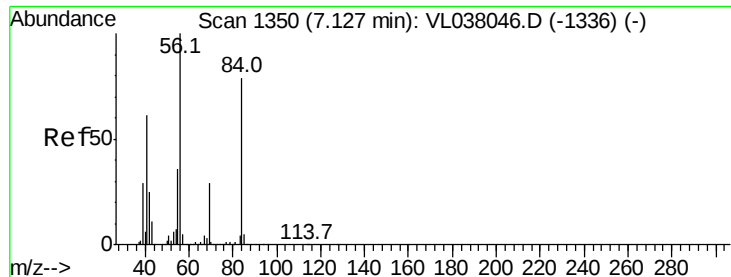
Reviewed By :Semsettin Yesilyurt 11/29/2021
Supervised By :Mahesh Dadoda 11/29/2021



#29
Chloroform
Concen: 0.485 ppbv
RT: 5.75 min Scan# 920
Delta R.T. -0.01 min
Lab File: VL038110.D
Acq: 23 Nov 2021 21:56

Tgt Ion: 83 Resp: 89344
Ion Ratio Lower Upper
83 100
85 61.2 51.0 76.6



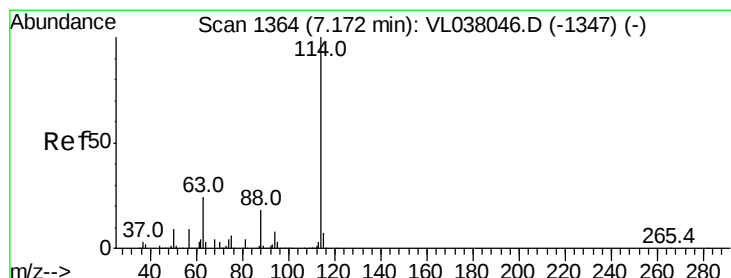
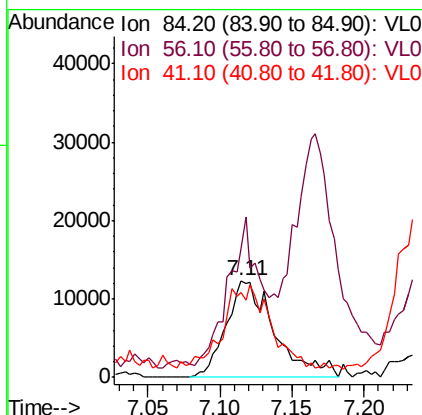
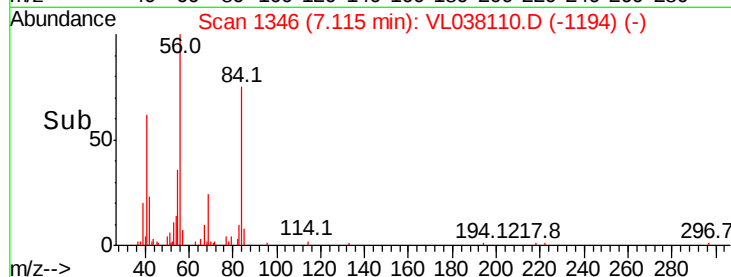
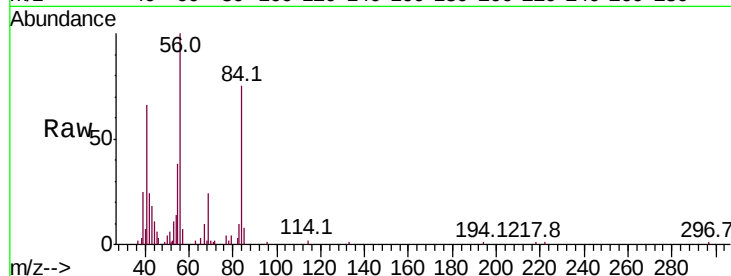


#30
Cvclohexane
Concen: 0.255 ppbv m
RT: 7.11
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 23 Nov 2021 21:50

Tot Ion:
Ion Rati
84 100
56 128.
41 88.

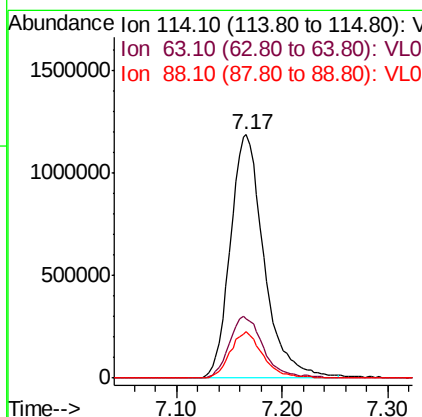
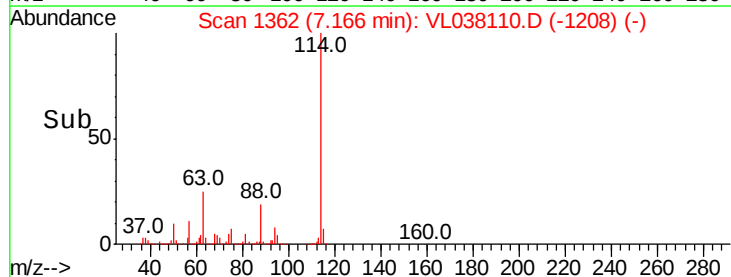
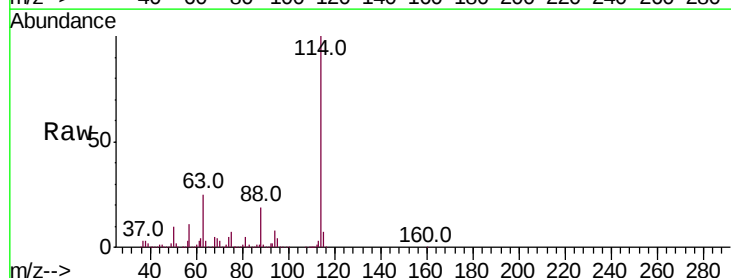
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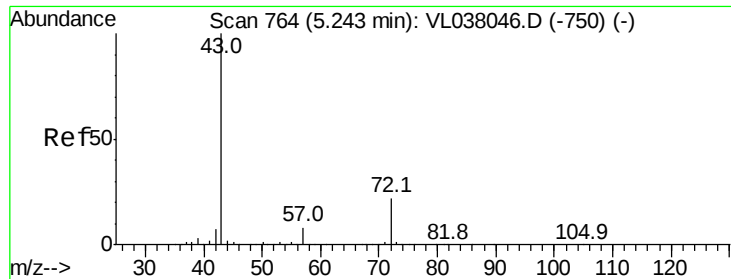
Reviewed By :Semsettin Yesilyurt 11/29/2021
Supervised By :Mahesh Dadoda 11/29/2021



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.17 min Scan# 1362
Delta R.T. -0.01 min
Lab File: VL038110.D
Acq: 23 Nov 2021 21:56

Tgt Ion:114 Resp: 2632744
Ion Ratio Lower Upper
114 100
63 25.7 19.7 29.5
88 18.6 14.4 21.6





#34

2-Butanone

Concen: 0.820 ppbv m

RT: 5.24 Instrument :

Delta R.T. MSVOA_1

Lab File: ClientSampleId :

Acq: 23 Nov 2021 21:50

Tot Ion:

Ion Ratio

43 100

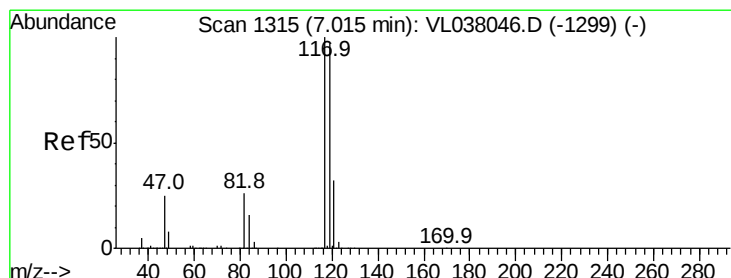
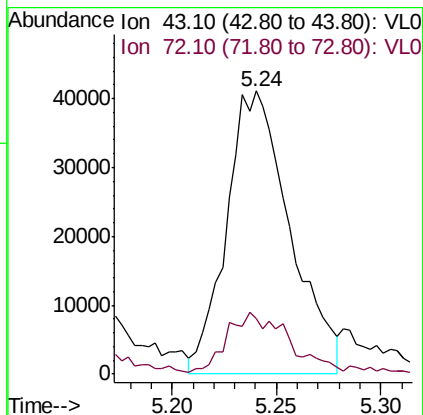
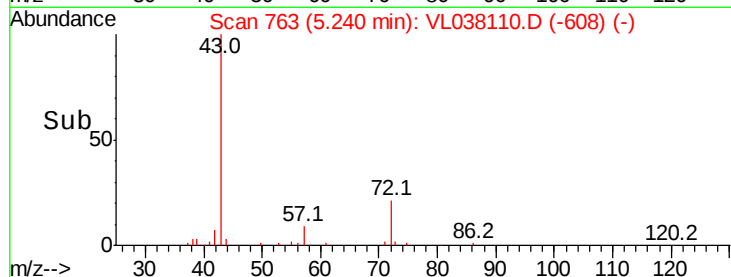
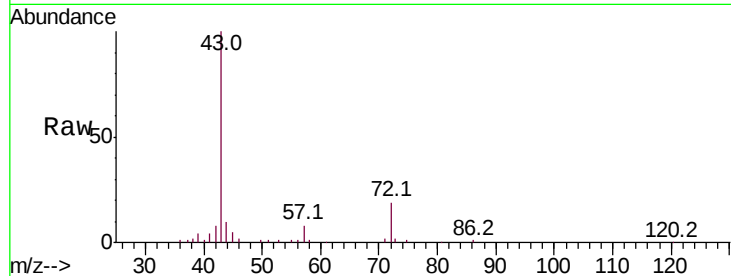
72 23.

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Reviewed By :Semsettin Yesilyurt 11/29/2021

Supervised By :Mahesh Dadoda 11/29/2021



#35

Carbon Tetrachloride

Concen: 0.071 ppbv m

RT: 7.01 min Scan# 1314

Delta R.T. -0.00 min

Lab File: VL038110.D

Acq: 23 Nov 2021 21:56

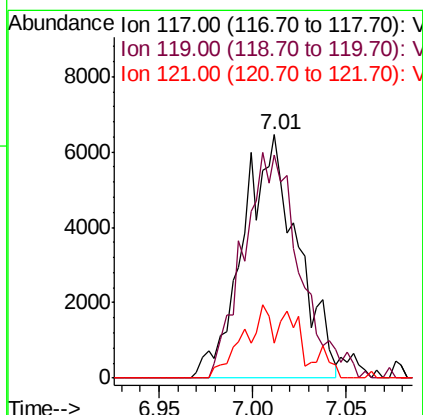
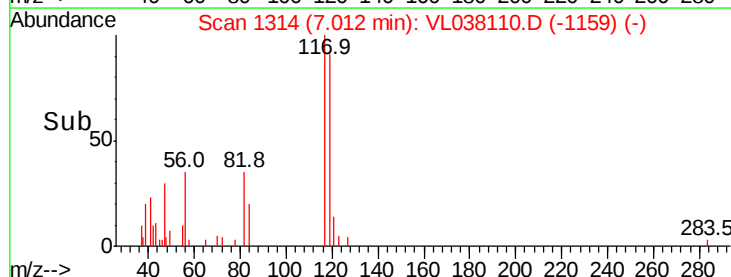
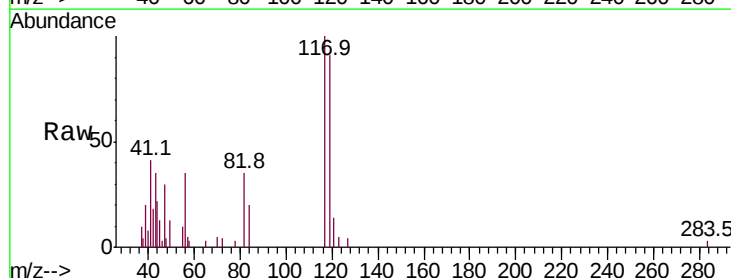
Tgt Ion:117 Resp: 13066

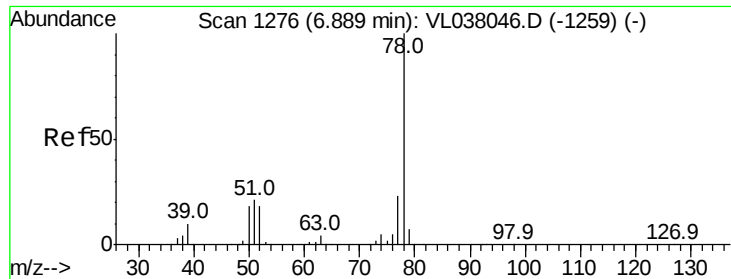
Ion Ratio Lower Upper

117 100

119 91.4 77.7 116.5

121 14.4 25.6 38.4#



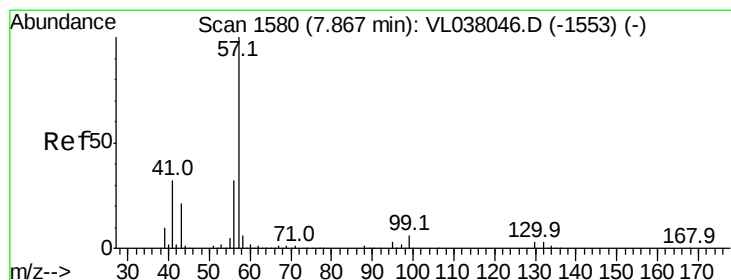
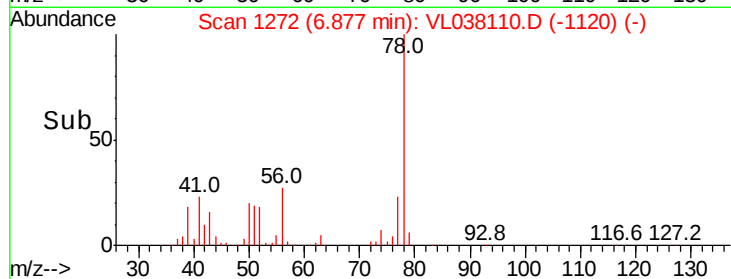
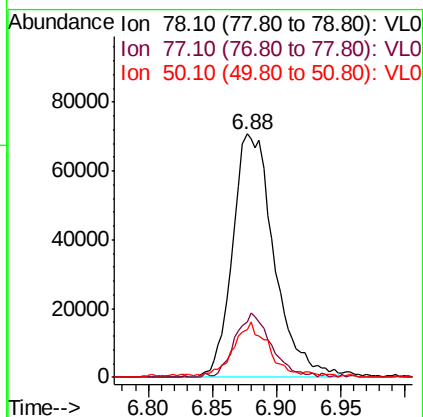
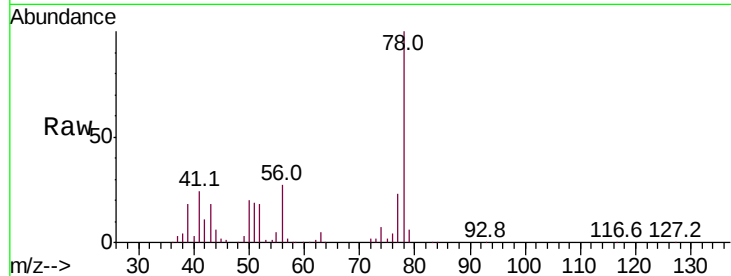


#36
Benzene
Concen: 0.603 ppbv m
RT: 6.88
Instrument: MSVOA_1
Delta R.T.:
ClientSampleId:
Lab File: IA-CURVY-BRIDE
Acq: 23 Nov 2021 21:56

Tot Ion:
Ion Ratio
78 100
77 22.
50 19.

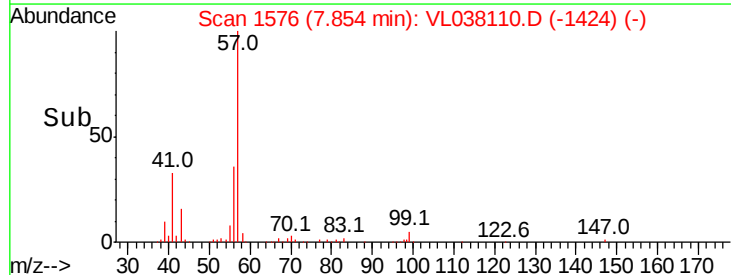
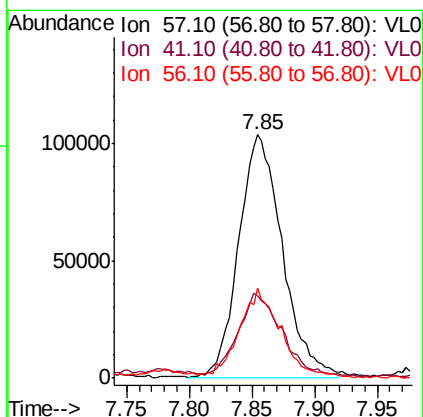
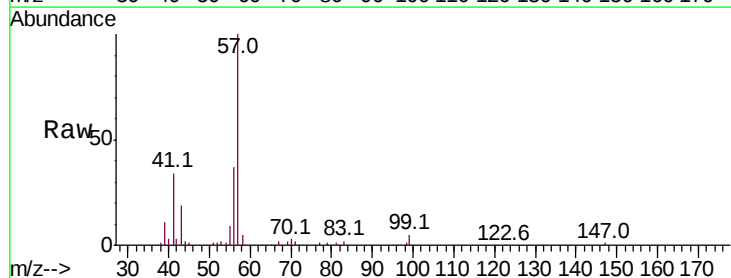
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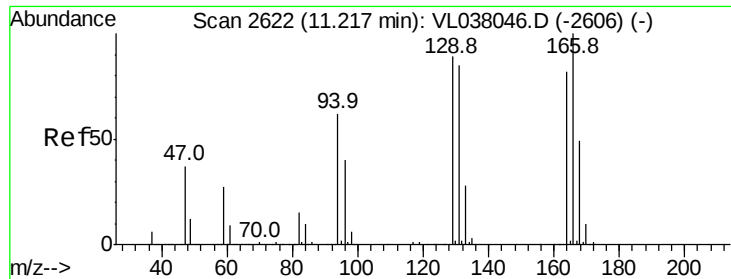
Reviewed By :Semsettin Yesilyurt 11/29/2021
Supervised By :Mahesh Dadoda 11/29/2021



#44
2,2,4-Trimethylpentane
Concen: 0.567 ppbv
RT: 7.85 min Scan# 1576
Delta R.T. -0.01 min
Lab File: VL038110.D
Acq: 23 Nov 2021 21:56

Tgt Ion: 57 Resp: 249213
Ion Ratio Lower Upper
57 100
41 35.7 25.8 38.6
56 35.0 25.6 38.4





#52

Tetrachloroethene

Concen: 0.306 ppbv m

RT: 11.20

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 23 Nov 2021 21:50

Tot Ion:1

Ion Ratio

164 100

166 125.

129 95.

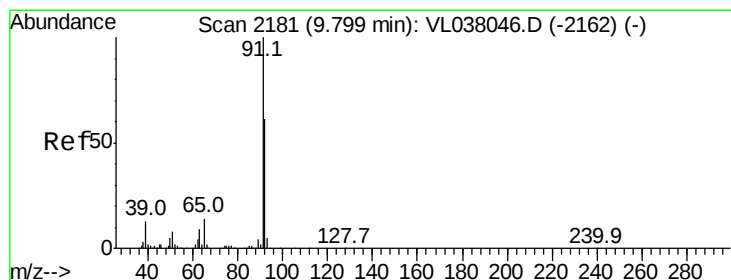
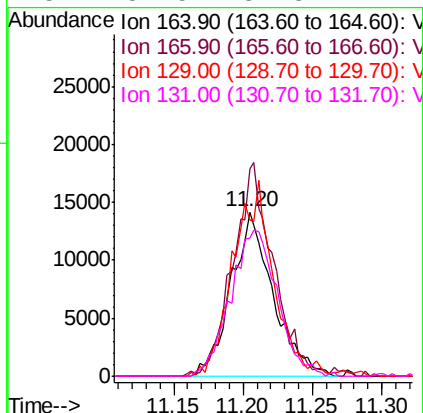
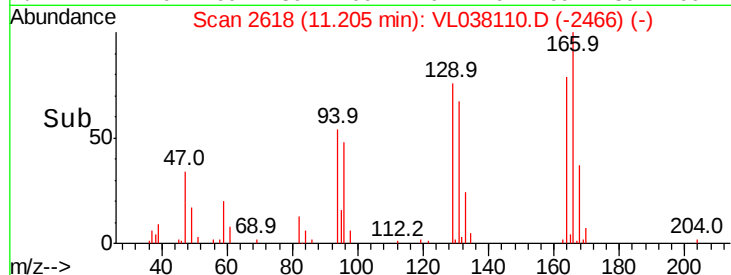
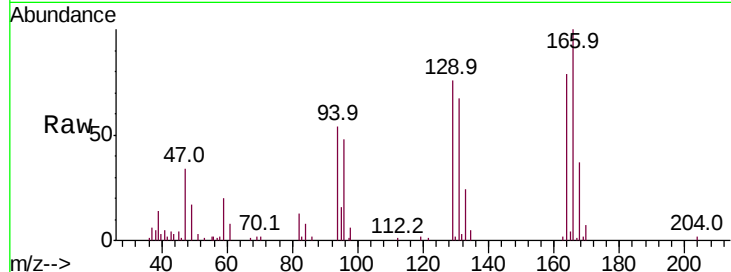
131 84.5

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Reviewed By :Semsettin Yesilyurt 11/29/2021

Supervised By :Mahesh Dadoda 11/29/2021



#53

Toluene

Concen: 2.505 ppbv

RT: 9.79 min Scan# 2178

Delta R.T. -0.01 min

Lab File: VL038110.D

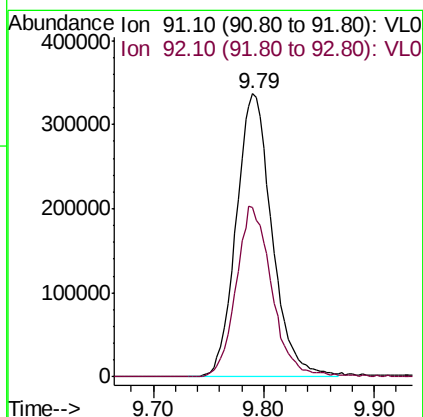
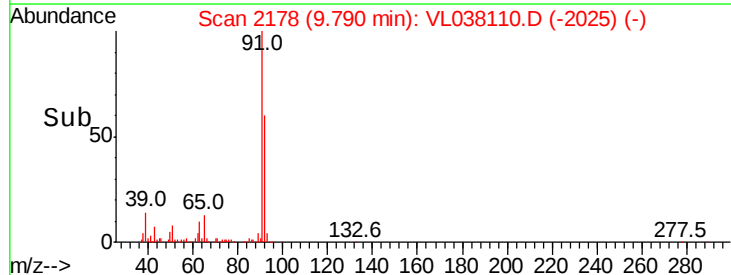
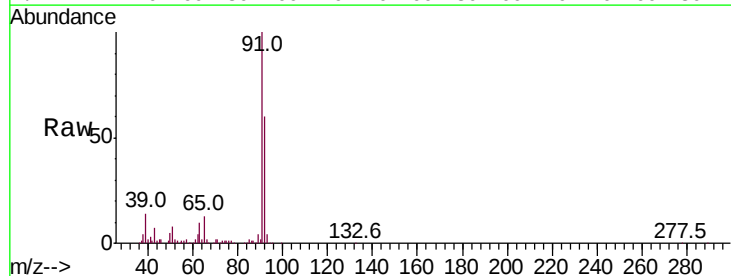
Acq: 23 Nov 2021 21:56

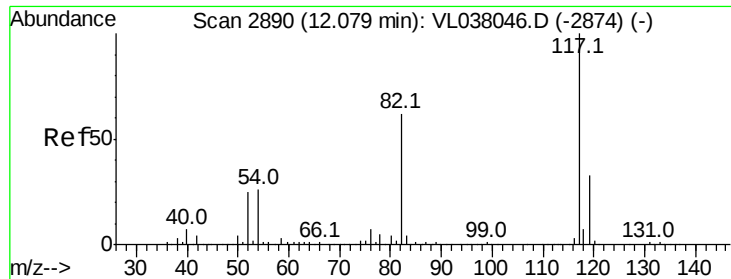
Tgt Ion: 91 Resp: 756820

Ion Ratio Lower Upper

91 100

92 60.6 49.7 74.5



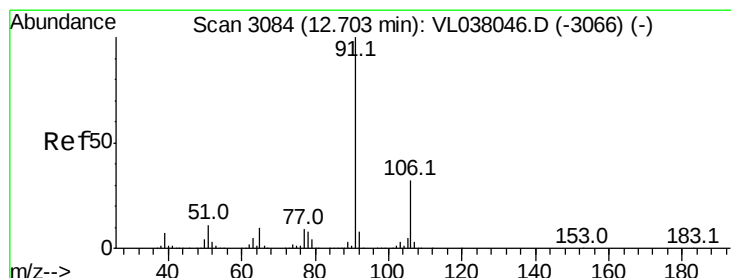
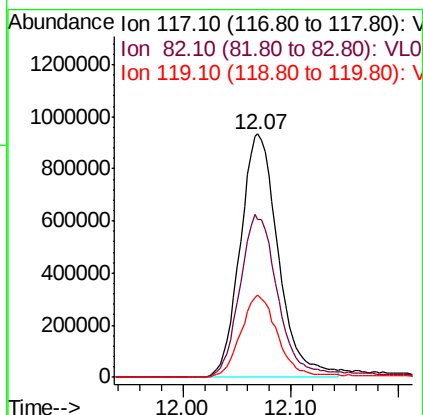
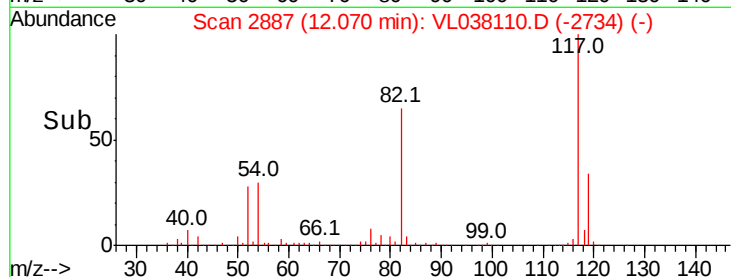
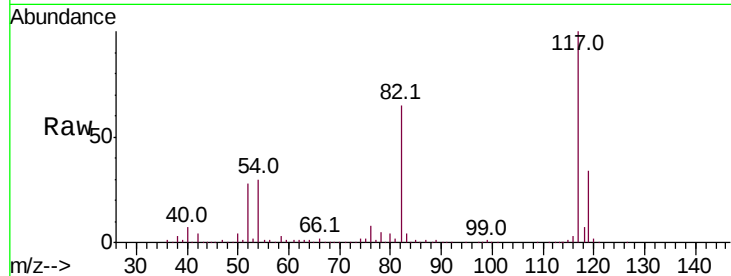


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.07 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 23 Nov 2021 21:50

Tot Ion: 1
Ion Ratio
117 100
82 70.
119 34.

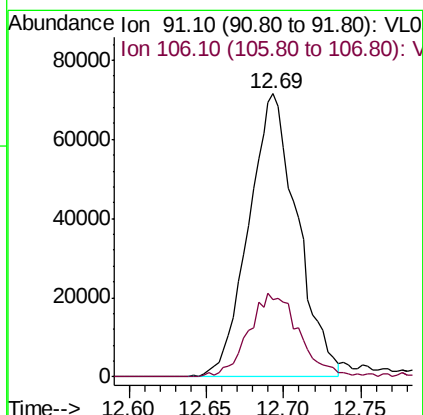
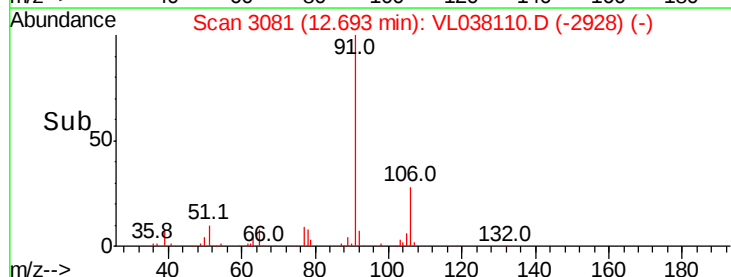
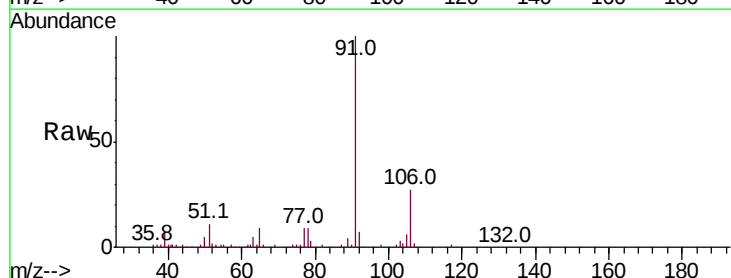
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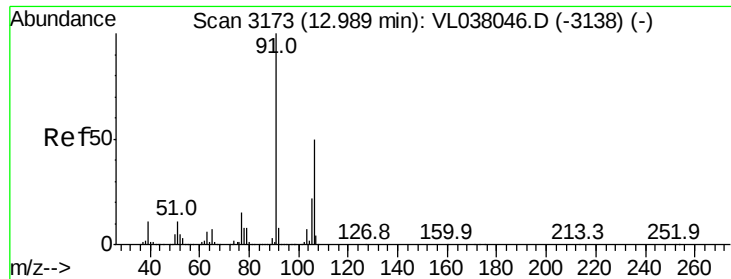
Reviewed By :Semsettin Yesilyurt 11/29/2021
Supervised By :Mahesh Dadoda 11/29/2021



#58
Ethyl Benzene
Concen: 0.413 ppbv
RT: 12.69 min Scan# 3081
Delta R.T. -0.01 min
Lab File: VL038110.D
Acq: 23 Nov 2021 21:56

Tgt Ion: 91 Resp: 156143
Ion Ratio Lower Upper
91 100
106 27.5 25.8 38.6



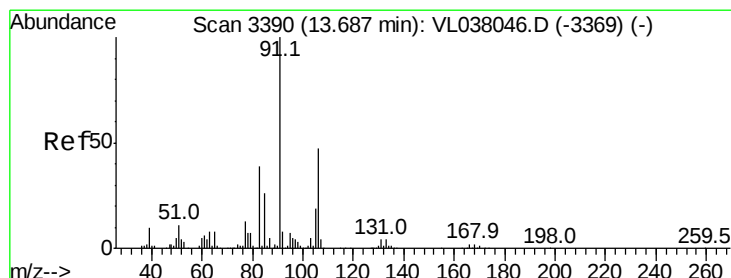
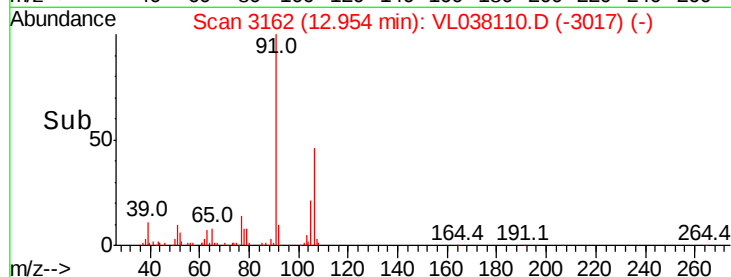
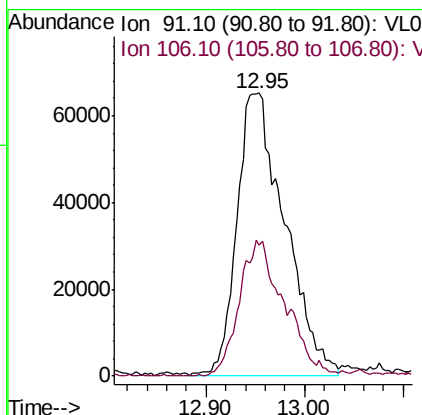
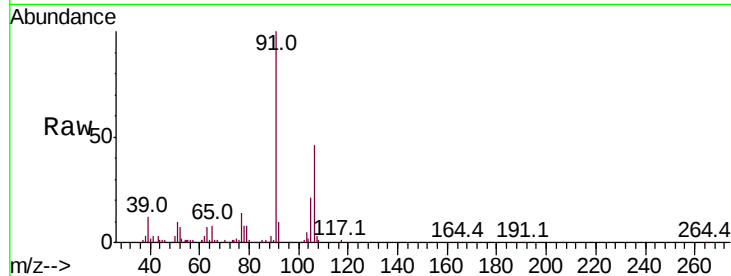


#59
m/p-Xylene
Concen: 0.691 ppbv m
RT: 12.95
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 23 Nov 2021 21:58

Tot Ion:
Ion Ratio
91 100
106 0.

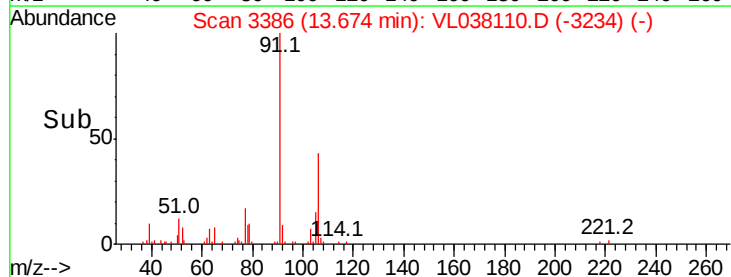
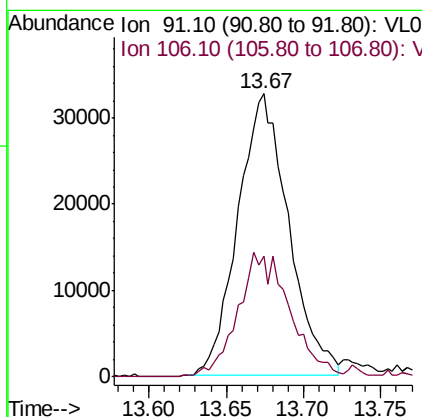
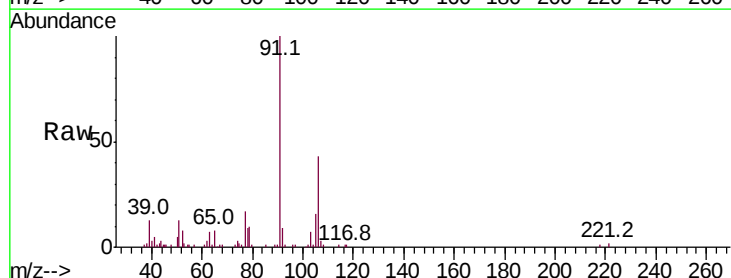
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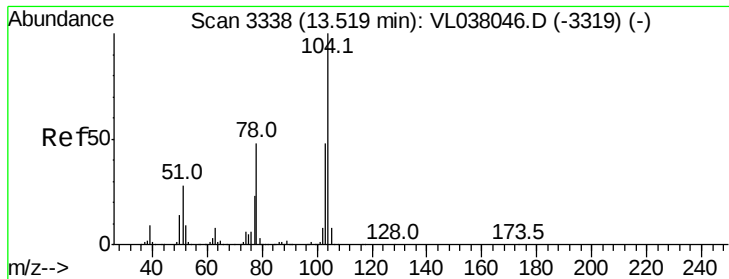
Reviewed By :Semsettin Yesilyurt 11/29/2021
Supervised By :Mahesh Dadoda 11/29/2021



#60
o-Xylene
Concen: 0.252 ppbv
RT: 13.67 min Scan# 3386
Delta R.T. -0.01 min
Lab File: VL038110.D
Acq: 23 Nov 2021 21:56

Tgt Ion: 91 Resp: 74443
Ion Ratio Lower Upper
91 100
106 46.1 24.2 72.6



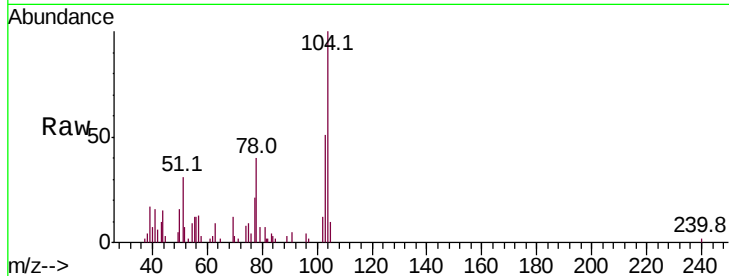


#61
Stvrene
Concen: 0.130 ppbv m
RT: 13.51
Delta R.T. MSVOA_L
Lab File: ClientSampled :
Acq: 23 Nov 2021 21:56

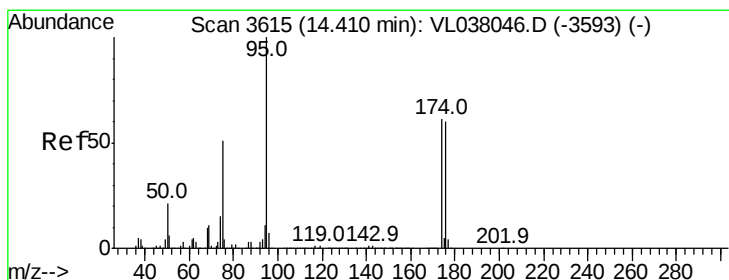
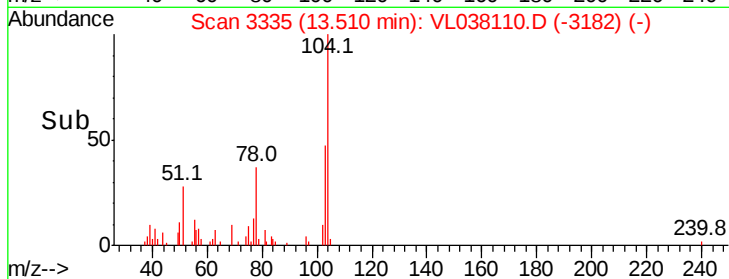
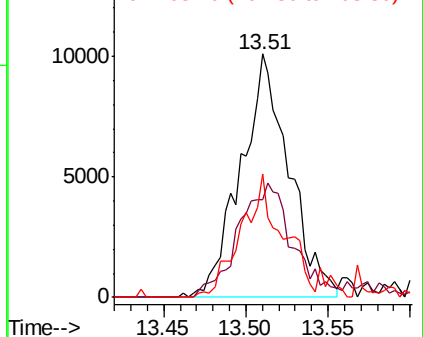
Tot Ion:1
Ion Rati
104 100
78 58.
103 46.

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

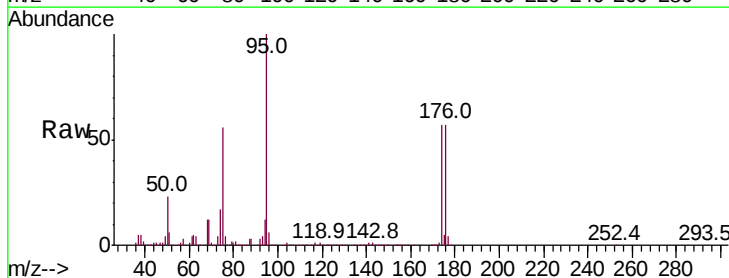


Abundance Ion 104.10 (103.80 to 104.80): V
Ion 78.10 (77.80 to 78.80): VL0
Ion 103.10 (102.80 to 103.80): V

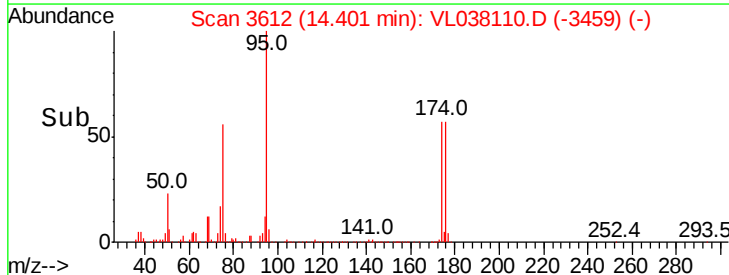
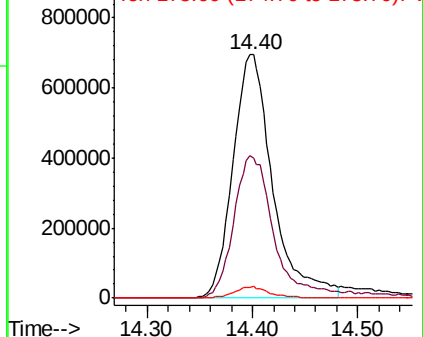


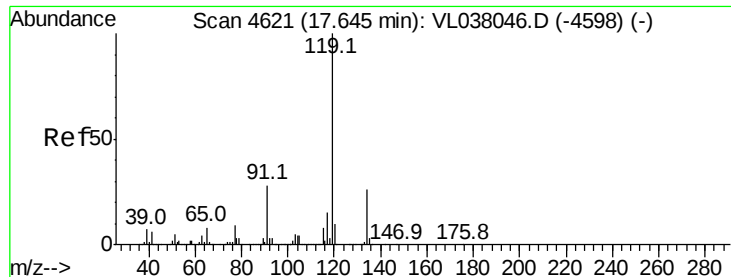
#68
1-Bromo-4-Fluorobenzene
Concen: 11.045 ppbv
RT: 14.40 min Scan# 3612
Delta R.T. -0.01 min
Lab File: VL038110.D
Acq: 23 Nov 2021 21:56

Tgt Ion: 95 Resp: 1821049
Ion Ratio Lower Upper
95 100
174 62.1 53.1 79.7
175 4.7 4.0 6.0



Abundance Ion 95.10 (94.80 to 95.80): VL0
Ion 174.00 (173.70 to 174.70): V
Ion 175.00 (174.70 to 175.70): V



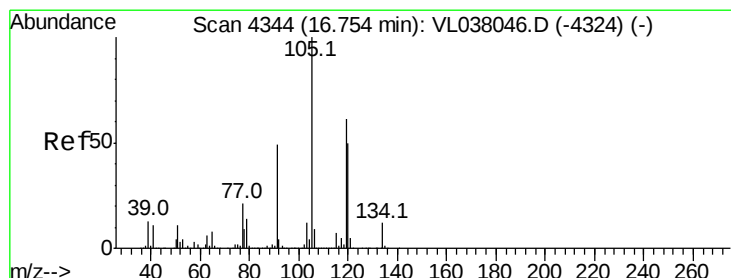
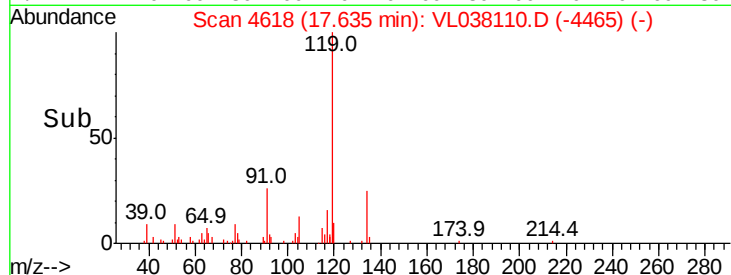
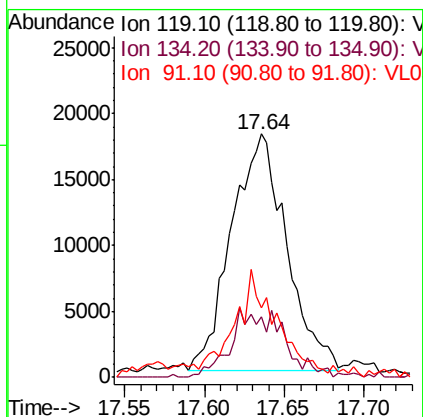
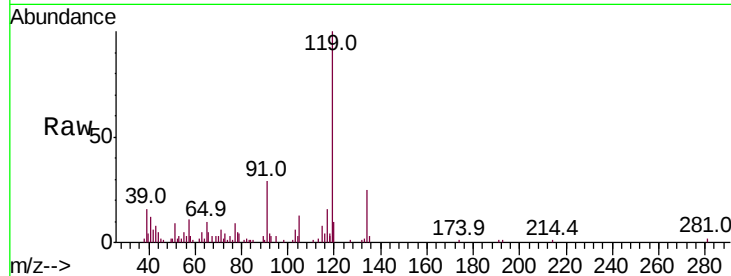


#69
 p-Isopropyltoluene
 Concen: 0.106 ppbv
 RT: 17.64 min
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId :
 Acq: 23 Nov 2021 21:58

Tot Ion:1
 Ion Rati
 119 100
 134 27.
 91 42.

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



#74
 1,2,4-Trimethylbenzene
 Concen: 0.131 ppbv m
 RT: 16.73 min Scan# 4338
 Delta R.T. -0.02 min
 Lab File: VL038110.D
 Acq: 23 Nov 2021 21:56

Tgt Ion:105 Resp: 42096
 Ion Ratio Lower Upper
 105 100
 120 33.6 40.1 60.1#
 91 11.6 39.8 59.8#
 77 10.2 16.6 25.0#

