

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL111821\
 Data File : VL038067.D
 Acq On : 18 Nov 2021 23:44
 Operator : SY/AP
 Sample : M4704-03
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA L
 ClientSampleId :
 57-NEONEY

Manual Integrations
 APPROVED

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

Quant Time: Nov 19 08:25:08 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	5.67	49	855319	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	2415217	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.08	117	2040113	10.00	ppbv	0.00

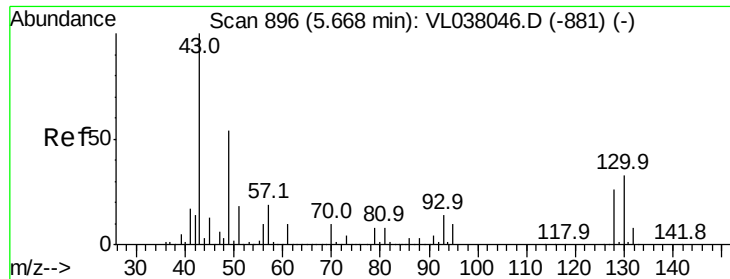
System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.41	95	1500185	10.19	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.90%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	3.05	85	27725	0.196 ppbv	98
4) Chloromethane	3.15	50	31564	0.516 ppbv	99
9) Propene	3.02	41	3977772	60.131 ppbv	99
10) Heptane	8.11	43	87131m	0.533 ppbv	
11) Trichlorofluoromethane	3.95	101	23541	0.175 ppbv	94
13) Ethanol	3.61	45	233726	36.561 ppbv	94
15) Acetone	3.85	43	11355446	153.126 ppbv	91
17) tert-Butyl alcohol	4.30	59	183670	2.042 ppbv	99
19) Isopropyl Alcohol	3.97	45	160939	3.004 ppbv #	95
20) Methylene Chloride	4.35	84	334086	8.043 ppbv	97
26) Hexane	5.69	57	358537	3.018 ppbv #	42
27) Carbon Disulfide	4.55	76	63551	0.597 ppbv #	83
30) Cyclohexane	7.13	84	18973m	0.176 ppbv	
32) 1,1,1-Trichloroethane	6.51	97	8802m	0.050 ppbv	
34) 2-Butanone	5.25	43	614029	6.305 ppbv	97
35) Carbon Tetrachloride	7.02	117	7514m	0.044 ppbv	
36) Benzene	6.89	78	111864	0.464 ppbv	96
44) 2,2,4-Trimethylpentane	7.86	57	180117m	0.447 ppbv	
50) 4-Methyl-2-Pentanone	8.75	43	23099m	0.156 ppbv	
51) 2-Hexanone	10.15	43	83702m	1.203 ppbv	
53) Toluene	9.80	91	766903	2.767 ppbv	98
58) Ethyl Benzene	12.71	91	145845	0.433 ppbv #	88
59) m/p-Xylene	12.96	91	389937	1.374 ppbv	95
60) o-Xylene	13.69	91	142075	0.540 ppbv	99
64) n-propylbenzene	15.56	120	9921m	0.104 ppbv	
72) 4-Ethyltoluene	15.83	105	53354m	0.175 ppbv	
73) 1,3,5-Trimethylbenzene	15.99	105	32274m	0.116 ppbv	
74) 1,2,4-Trimethylbenzene	16.75	105	125111	0.435 ppbv #	69

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 18 Nov 2021 23:44

Tot Ion:

Ion Ratio

49 100

128 49.

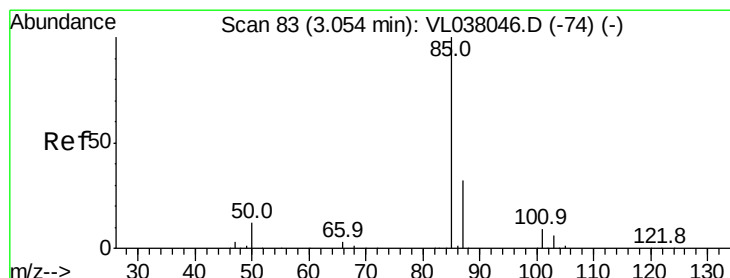
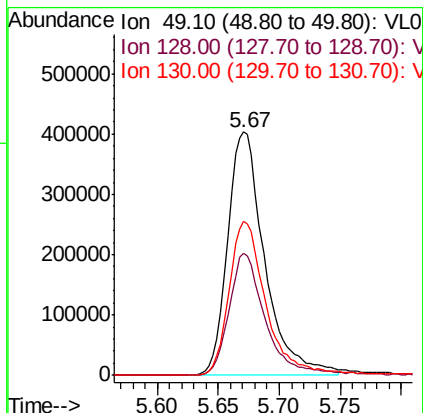
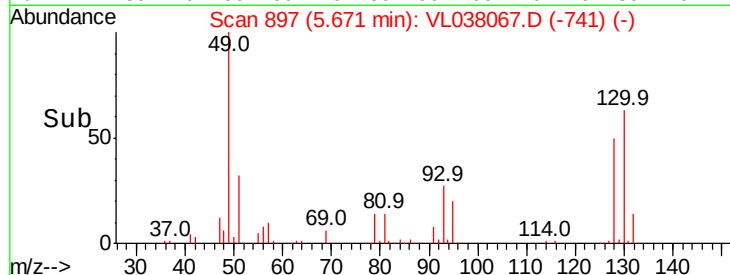
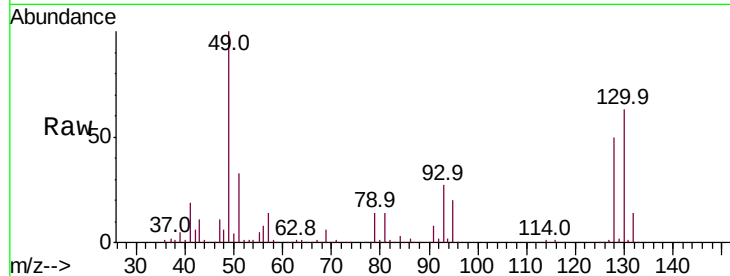
130 63.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 11/25/2021

Supervised By :Mahesh Dadoda 11/29/2021



#2

Dichlorodifluoromethane

Concen: 0.196 ppbv

RT: 3.05 min Scan# 83

Delta R.T. -0.00 min

Lab File: VL038067.D

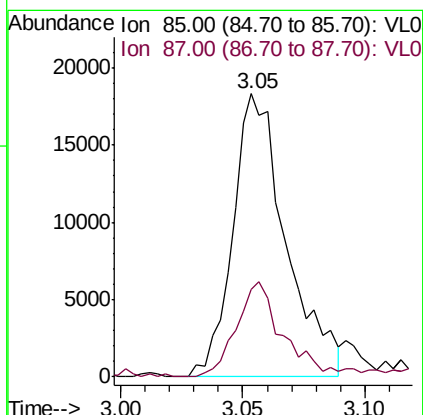
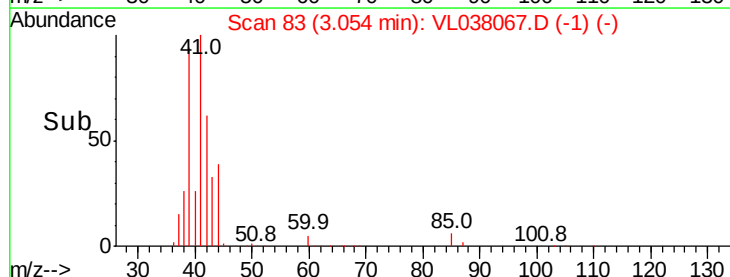
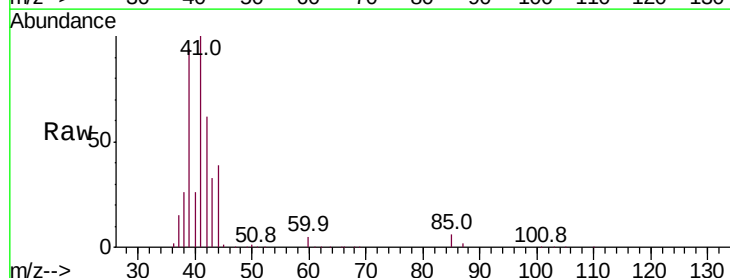
Acq: 18 Nov 2021 23:44

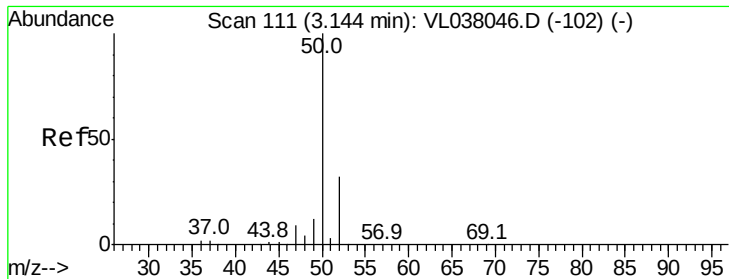
Tgt Ion: 85 Resp: 27725

Ion Ratio Lower Upper

85 100

87 30.8 25.8 38.6





#4

Chloromethane

Concen: 0.516 ppbv

RT: 3.15 Instrument :

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 18 Nov 2021 23:44

Tot Ion:

Ion Ratio

50 100

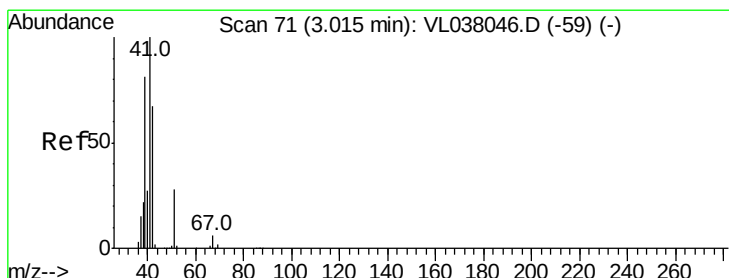
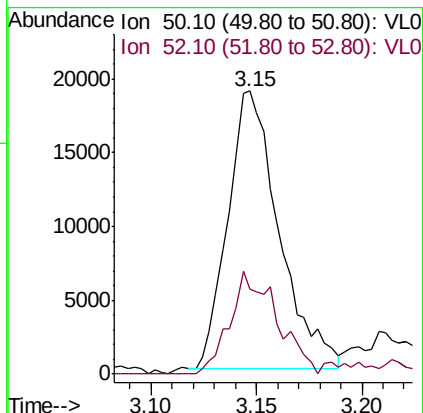
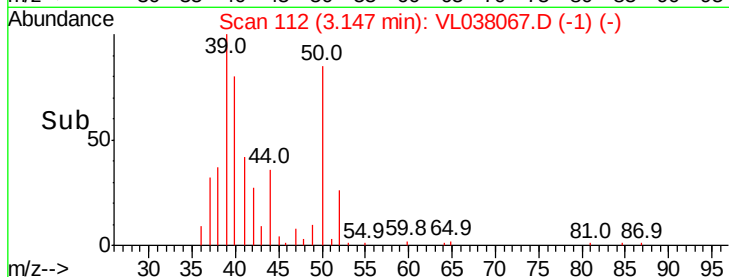
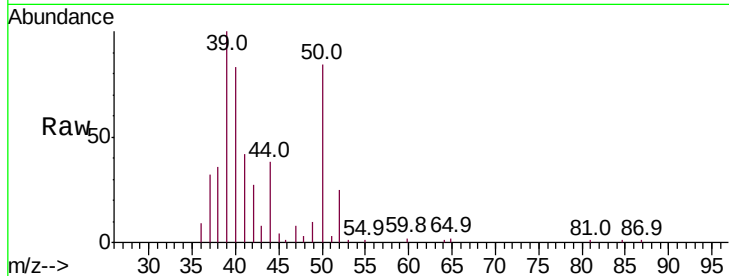
52 31.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 11/25/2021

Supervised By :Mahesh Dadoda 11/29/2021



#9

Propene

Concen: 60.131 ppbv

RT: 3.02 min Scan# 72

Delta R.T. 0.00 min

Lab File: VL038067.D

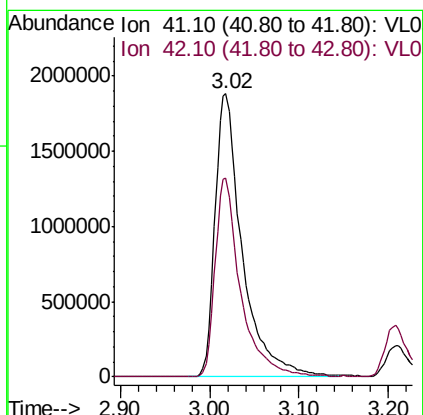
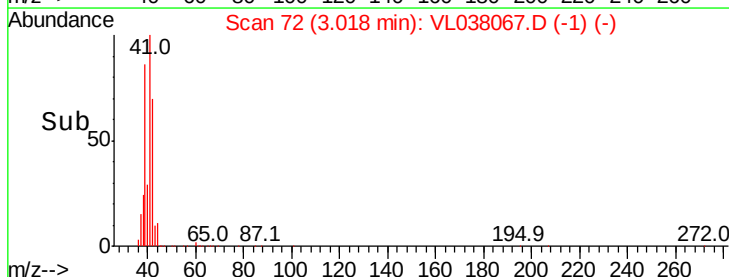
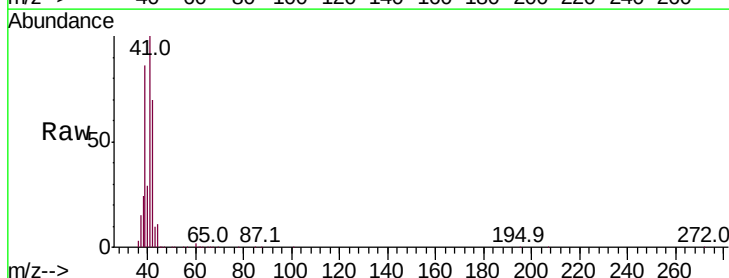
Acq: 18 Nov 2021 23:44

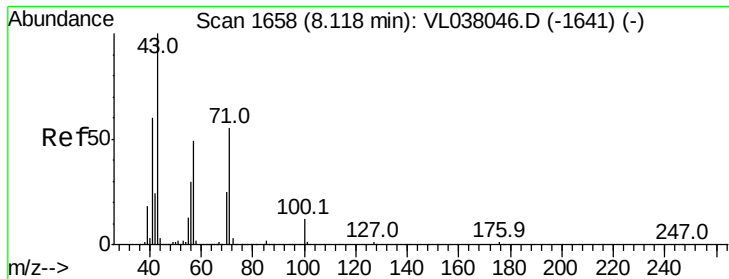
Tgt Ion: 41 Resp: 3977772

Ion Ratio Lower Upper

41 100

42 66.3 53.8 80.8



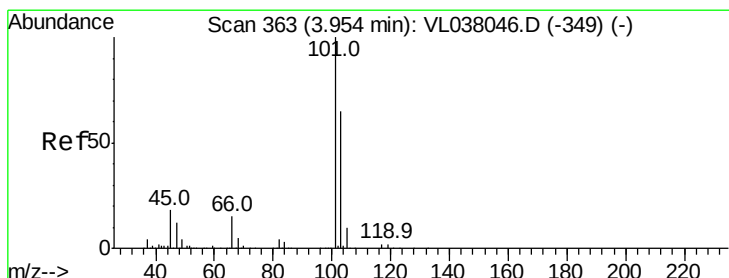
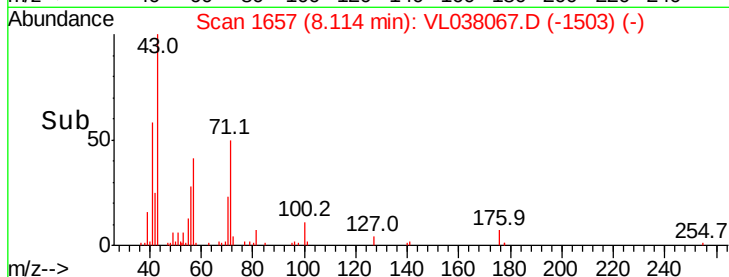
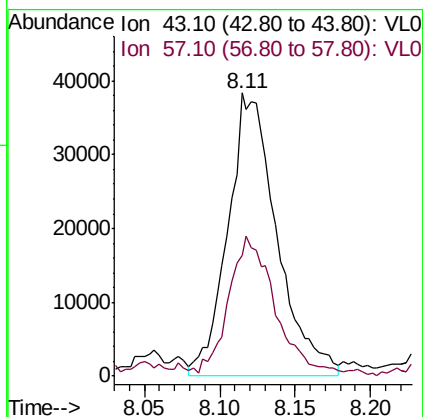
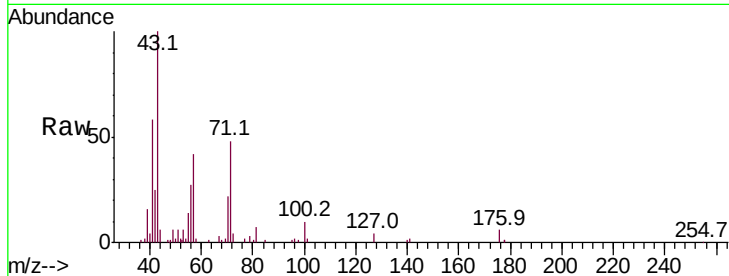


#10
 Heptane
 Concen: 0.533 ppbv m
 RT: 8.11
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId:
 57-NEONEY
 Acq: 18 Nov 2021 23:44

Tot Ion:
 Ion Ratio
 43 100
 57 45.

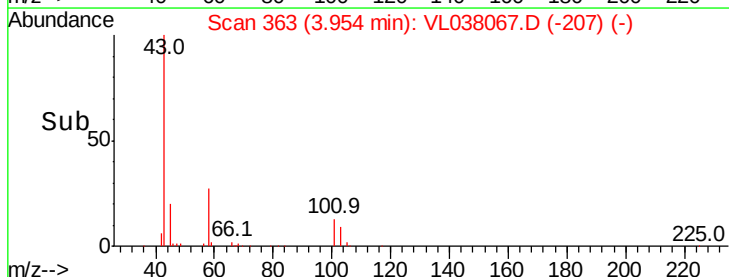
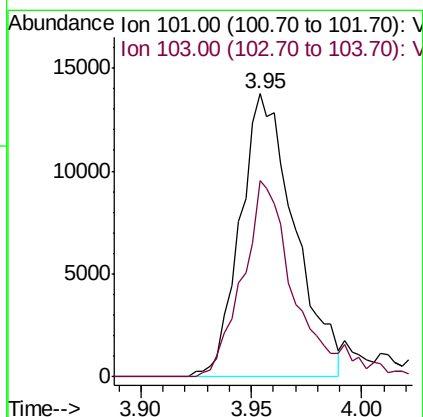
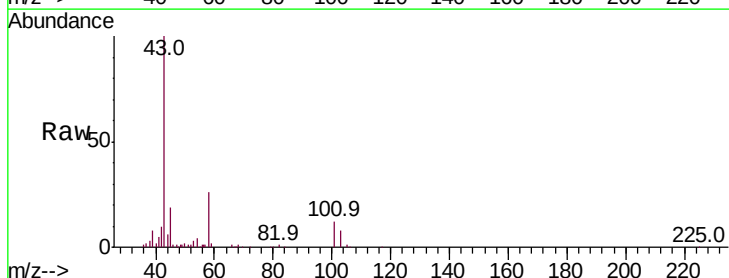
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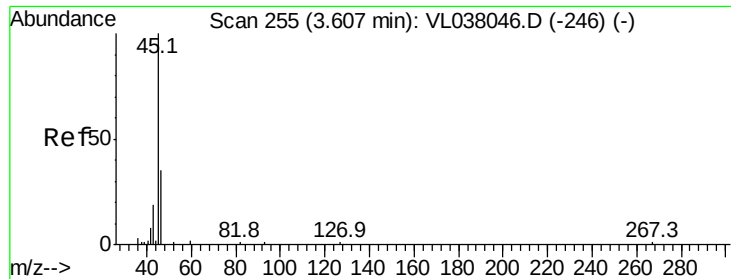
Reviewed By :Semsettin Yesilyurt 11/25/2021
 Supervised By :Mahesh Dadoda 11/29/2021



#11
 Trichlorofluoromethane
 Concen: 0.175 ppbv
 RT: 3.95 min Scan# 363
 Delta R.T. -0.00 min
 Lab File: VL038067.D
 Acq: 18 Nov 2021 23:44

Tgt Ion:101 Resp: 23541
 Ion Ratio Lower Upper
 101 100
 103 69.3 51.8 77.6



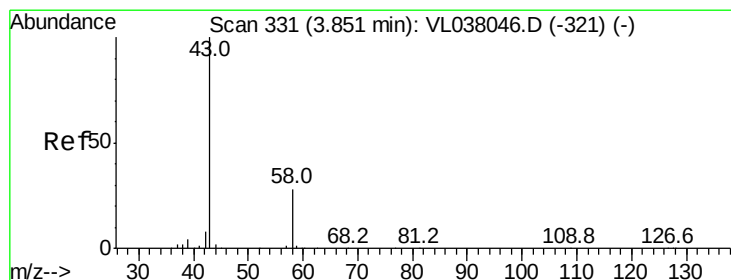
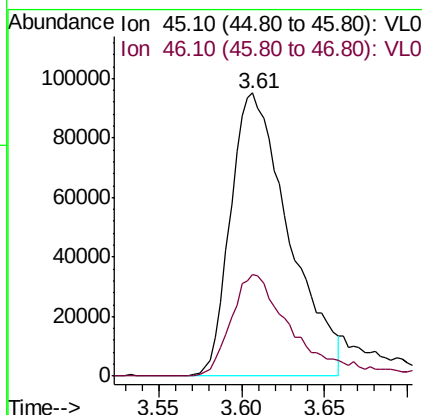
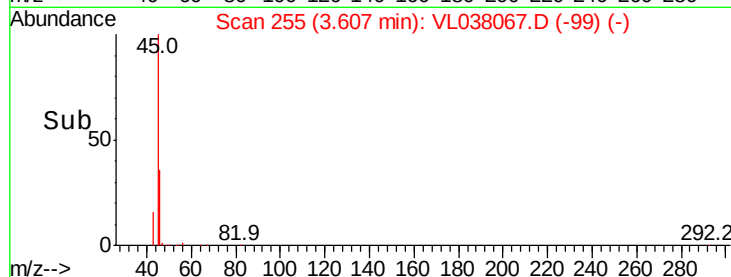
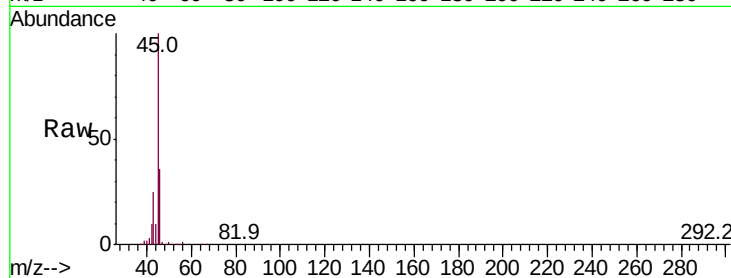


#13
Ethanol
Concen: 36.561 ppbv
RT: 3.61
Instrument : MSVOA_1
Delta R.T. :
Lab File: ClientSampleId :
Acq: 18 Nov 2021 23:44

Tot Ion:
Ion Ratio
45 100
46 39.

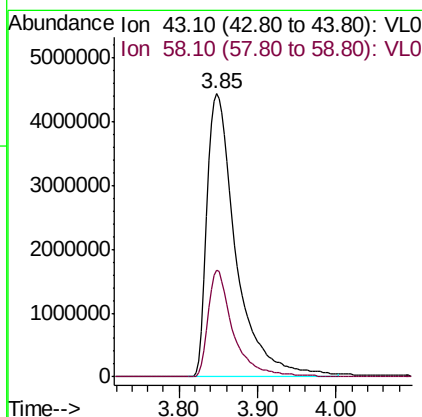
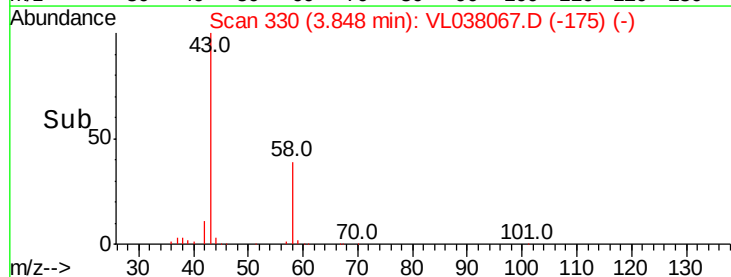
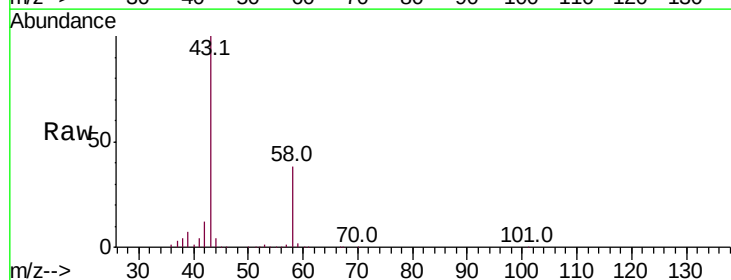
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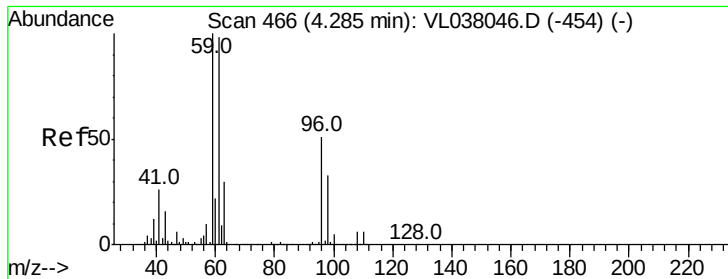
Reviewed By :Semsettin Yesilyurt 11/25/2021
Supervised By :Mahesh Dadoda 11/29/2021



#15
Acetone
Concen: 153.126 ppbv
RT: 3.85 min Scan# 330
Delta R.T. -0.00 min
Lab File: VL038067.D
Acq: 18 Nov 2021 23:44

Tgt Ion: 43 Resp:11355446
Ion Ratio Lower Upper
43 100
58 32.8 22.4 33.6





#17

tert-Butyl alcohol

Concen: 2.042 ppbv

RT: 4.30 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 18 Nov 2021 23:44

Tot Ion:

Ion Ratio

59 100

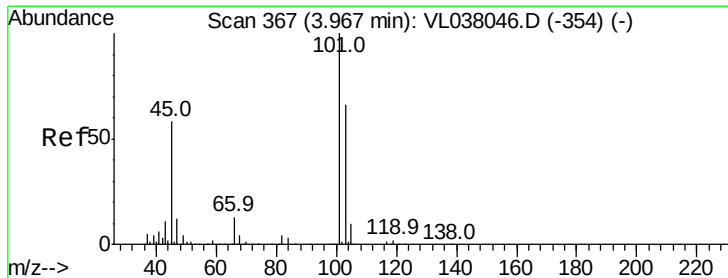
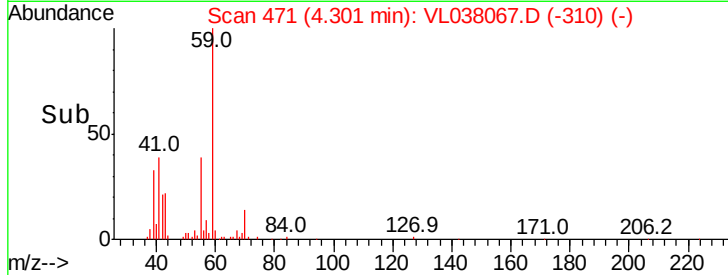
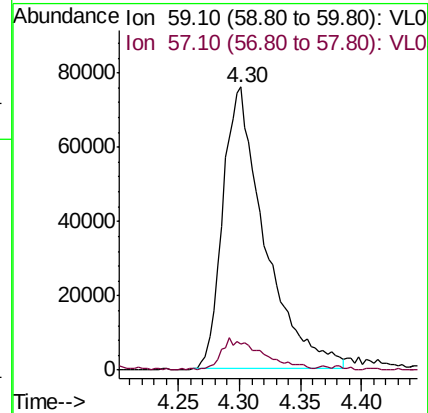
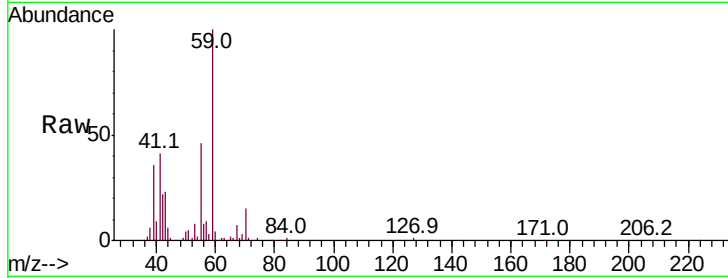
57 11.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 11/25/2021

Supervised By :Mahesh Dadoda 11/29/2021



#19

Isopropyl Alcohol

Concen: 3.004 ppbv

RT: 3.97 min Scan# 369

Delta R.T. 0.01 min

Lab File: VL038067.D

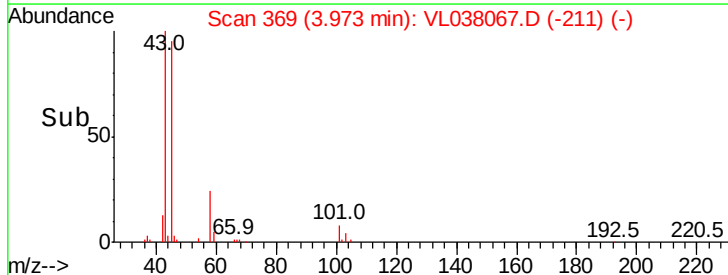
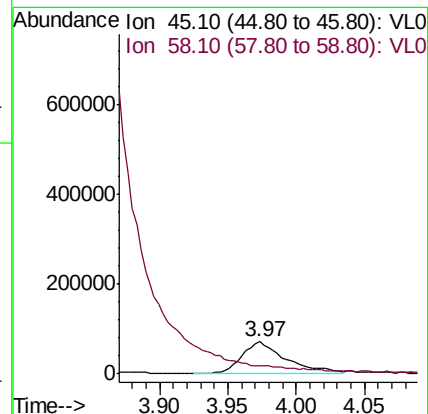
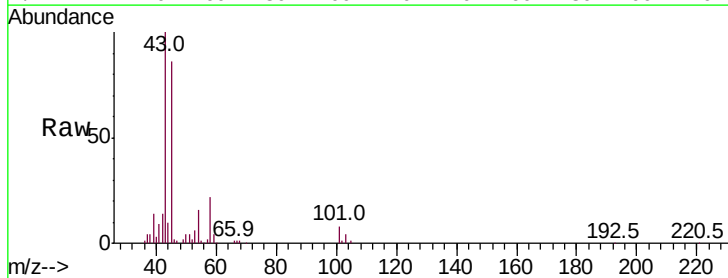
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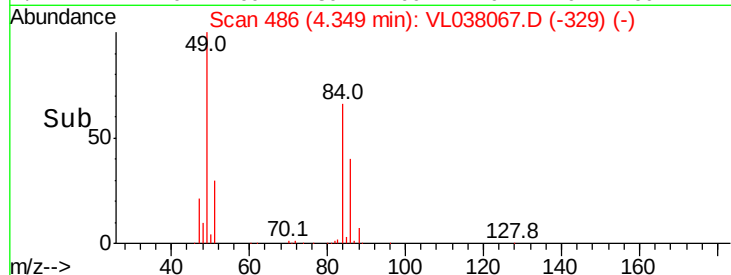
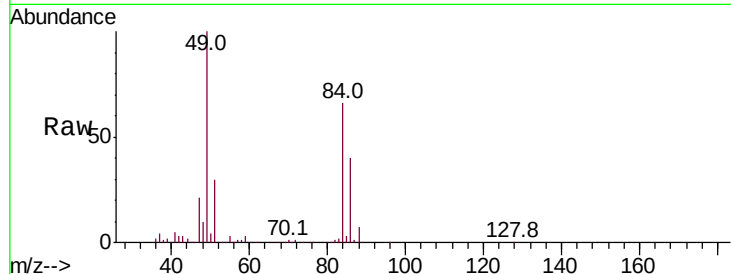
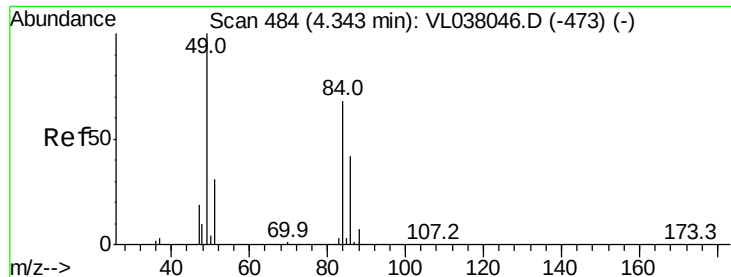
Tgt Ion: 45 Resp: 160939

Ion Ratio Lower Upper

45 100

58 0.0 1.4 2.0#



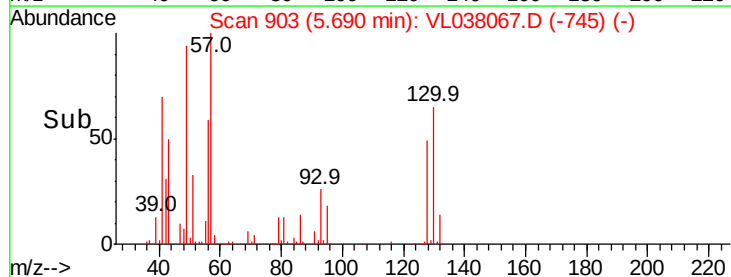
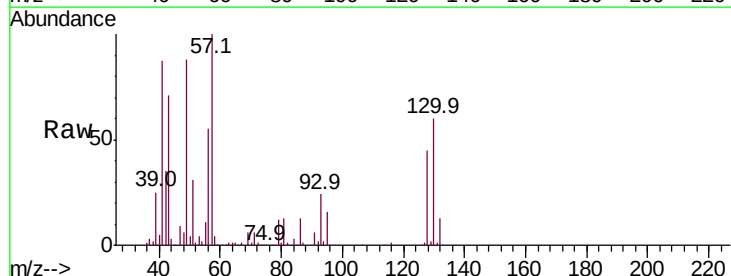
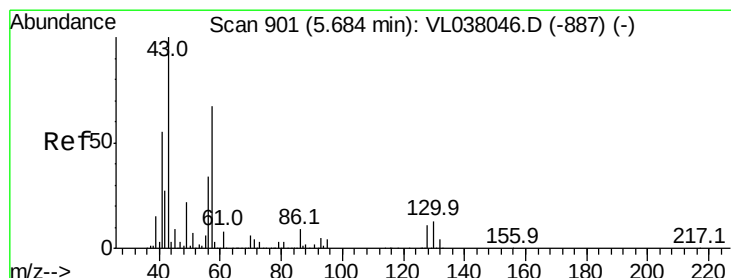
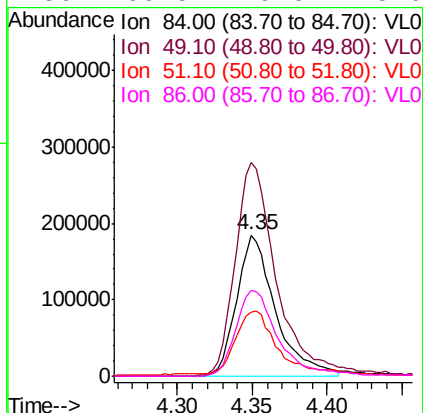


#20
Methvlene Chloride
Concen: 8.043 ppbv
RT: 4.35
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 18 Nov 2021 23:44

Tot Ion:
Ion Ratio
84 100
49 151.
51 43.
86 60.5 49.0 73.6

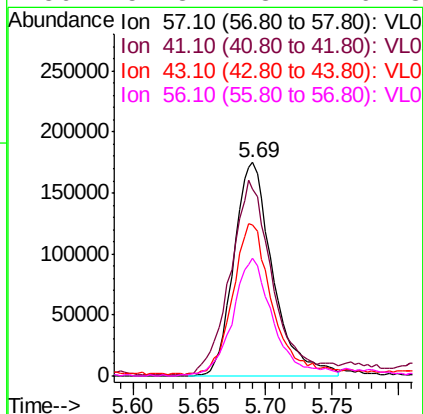
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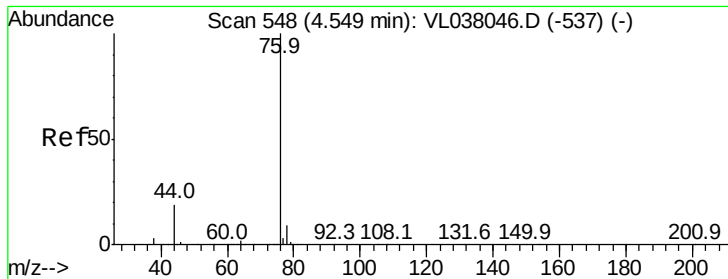
Reviewed By :Semsettin Yesilyurt 11/25/2021
Supervised By :Mahesh Dadoda 11/29/2021



#26
Hexane
Concen: 3.018 ppbv
RT: 5.69 min Scan# 903
Delta R.T. 0.01 min
Lab File: VL038067.D
Acq: 18 Nov 2021 23:44

Tgt Ion: 57 Resp: 358537
Ion Ratio Lower Upper
57 100
41 99.1 71.4 107.2
43 72.9 174.6 261.8#
56 57.3 43.2 64.8



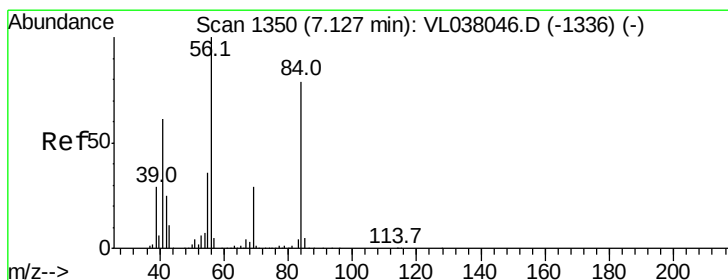
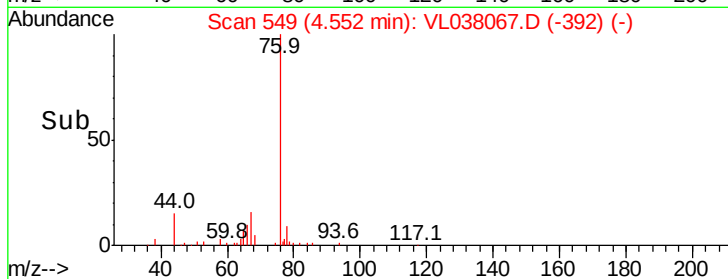
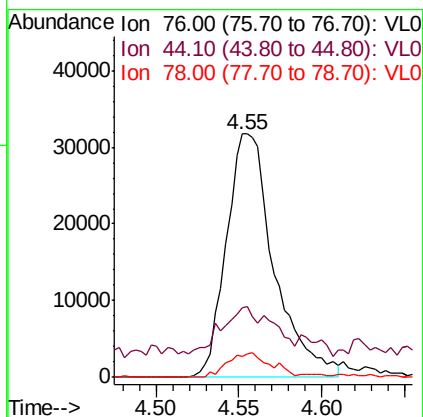
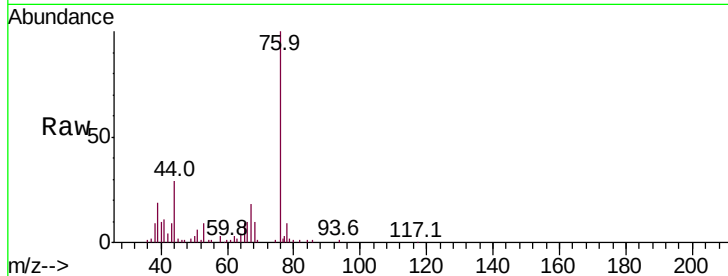


#27
Carbon Disulfide
Concen: 0.597 ppbv
RT: 4.55
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 18 Nov 2021 23:44

Tot Ion:
Ion Ratio
76 100
44 30.
78 9.

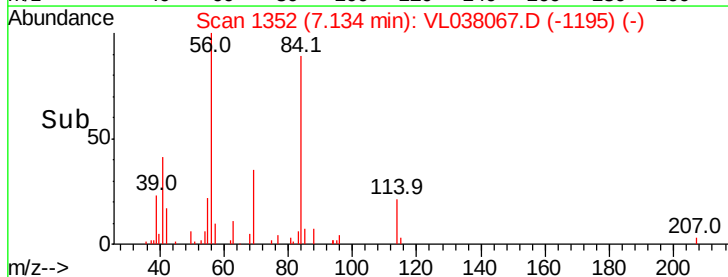
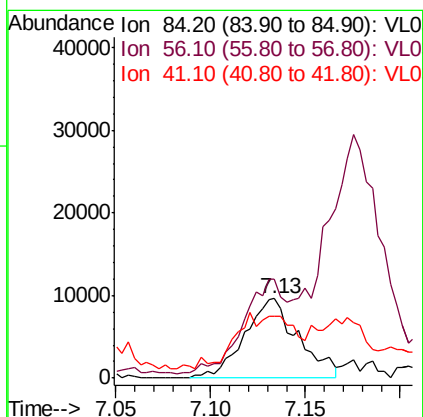
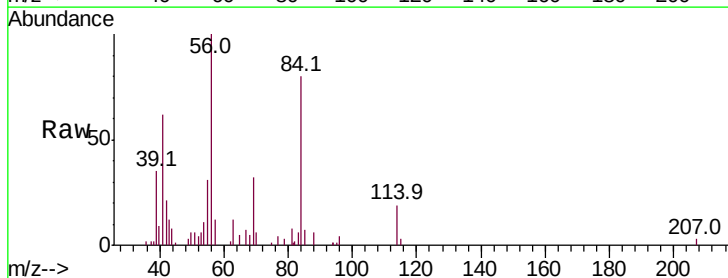
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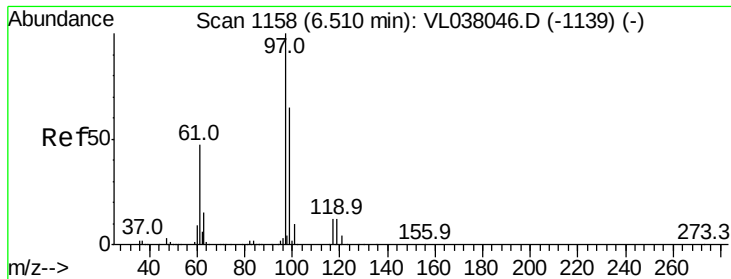
Reviewed By :Semsettin Yesilyurt 11/25/2021
Supervised By :Mahesh Dadoda 11/29/2021



#30
Cyclohexane
Concen: 0.176 ppbv m
RT: 7.13 min Scan# 1352
Delta R.T. 0.01 min
Lab File: VL038067.D
Acq: 18 Nov 2021 23:44

Tgt Ion: 84 Resp: 18973
Ion Ratio Lower Upper
84 100
56 0.0 108.1 162.1#
41 141.4 64.4 96.6#





#32

1,1,1-Trichloroethane

Concen: 0.050 ppbv m

RT: 6.51 Instrument:

Delta R.T. MSVOA_1

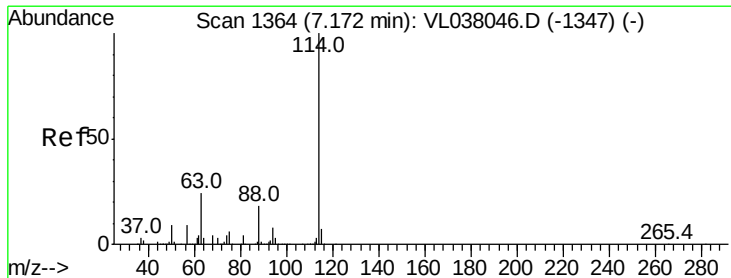
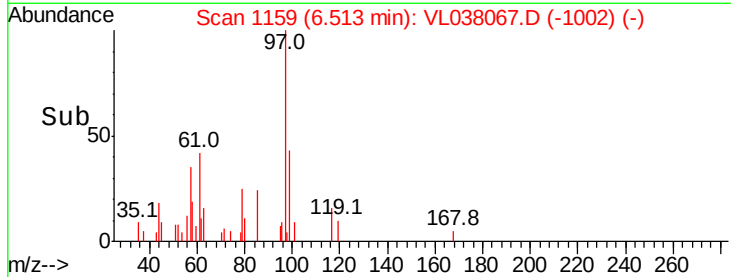
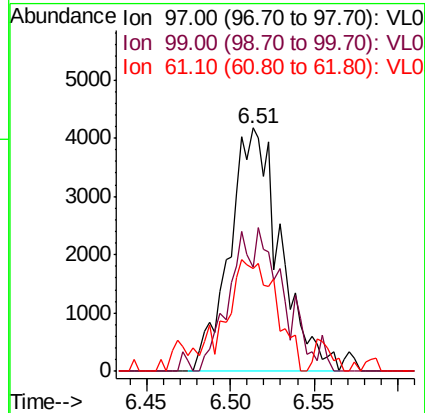
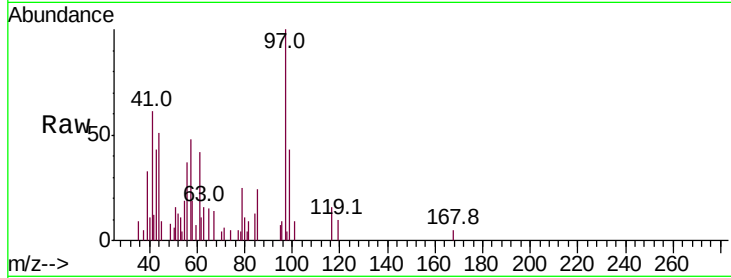
Lab File: ClientSampleId:

Acq: 18 Nov 2021 23:44

Tot Ion:
Ion Rati
97 100
99 63.
61 50.

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Supervised By :Mahesh Dadoda 11/29/2021



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

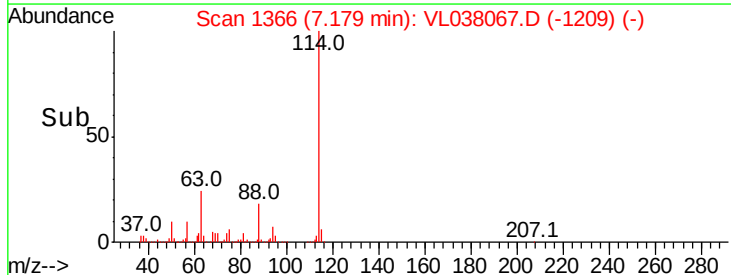
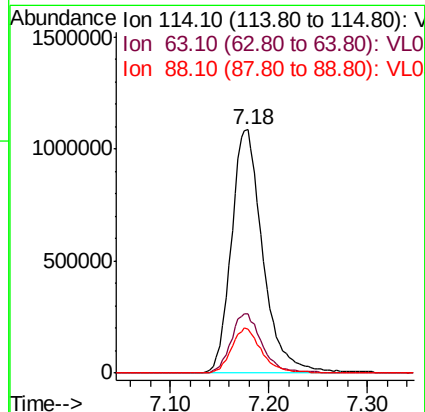
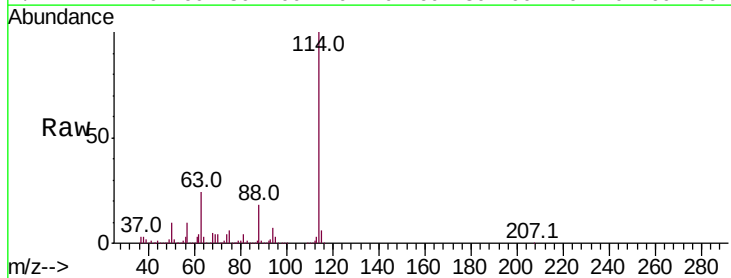
RT: 7.18 min Scan# 1366

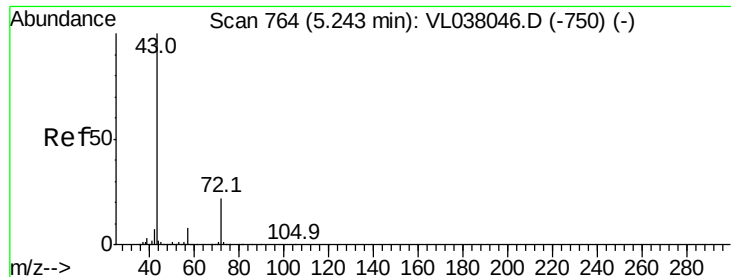
Delta R.T. 0.01 min

Lab File: VL038067.D

Acq: 18 Nov 2021 23:44

Tgt Ion:114 Resp: 2415217
Ion Ratio Lower Upper
114 100
63 24.3 19.7 29.5
88 18.1 14.4 21.6





#34

2-Butanone

Concen: 6.305 ppbv

RT: 5.25

Instrument: MSVOA_1

Delta R.T.

Lab File: ClientSampleId:

Acq: 18 Nov 2021 23:44

Tot Ion:

Ion Ratio

43 100

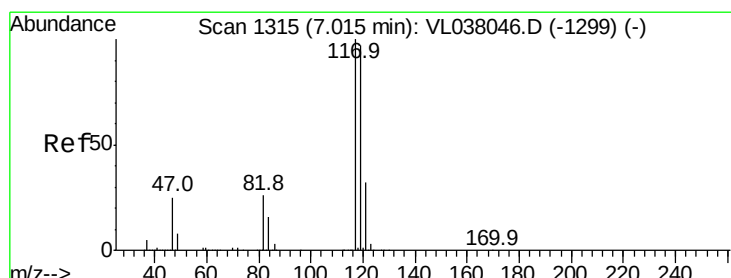
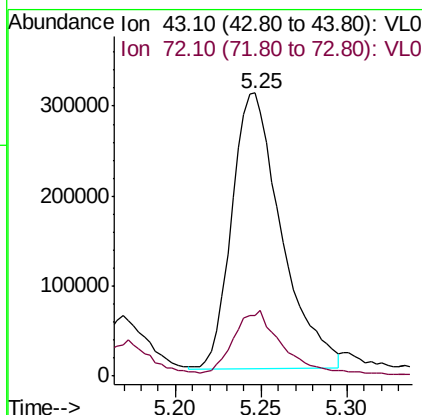
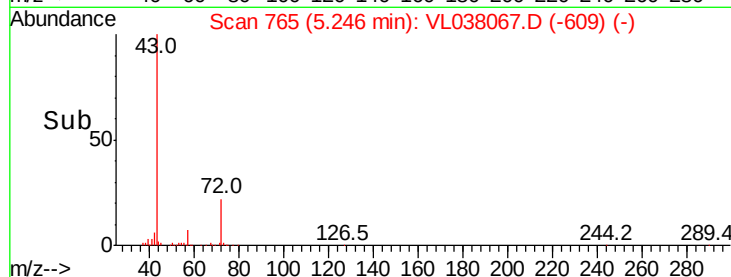
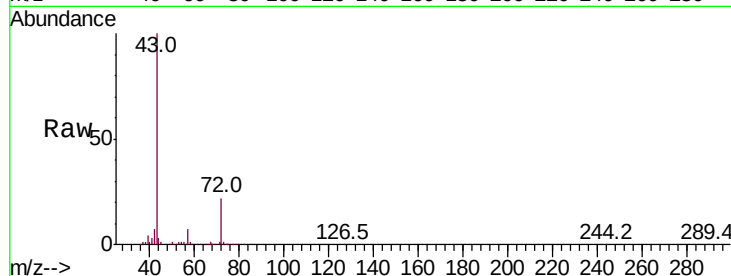
72 24.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/25/2021

Supervised By :Mahesh Dadoda 11/29/2021



#35

Carbon Tetrachloride

Concen: 0.044 ppbv m

RT: 7.02 min Scan# 1317

Delta R.T. 0.01 min

Lab File: VL038067.D

Acq: 18 Nov 2021 23:44

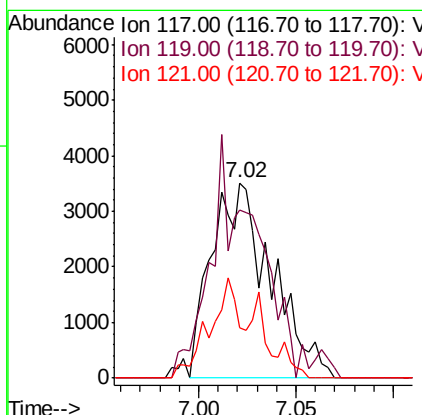
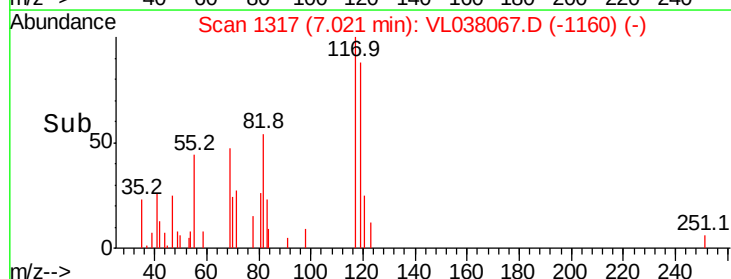
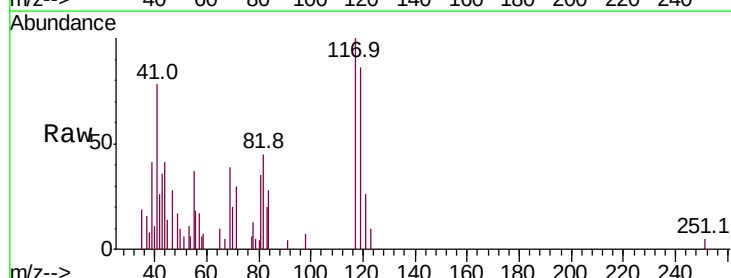
Tgt Ion:117 Resp: 7514

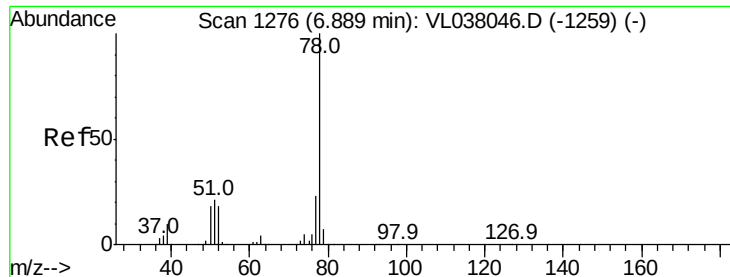
Ion Ratio Lower Upper

117 100

119 86.3 77.7 116.5

121 25.5 25.6 38.4#



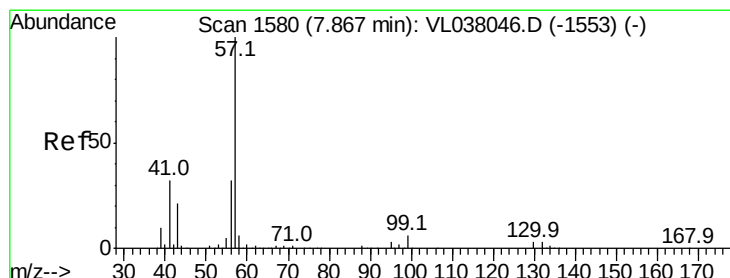
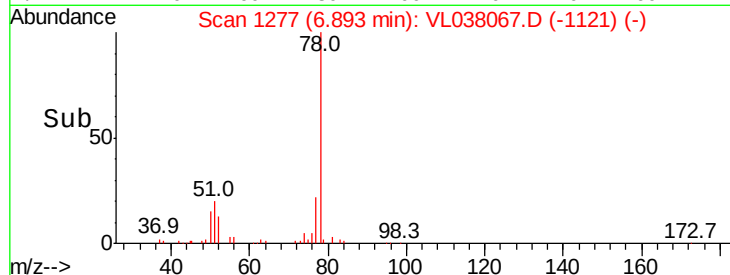
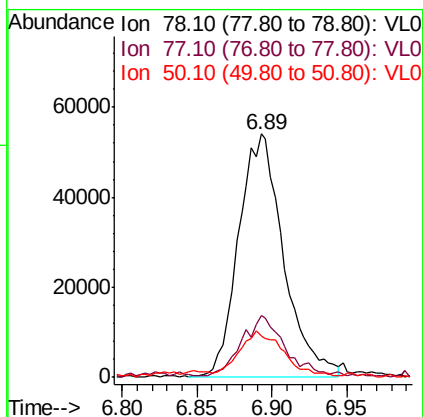
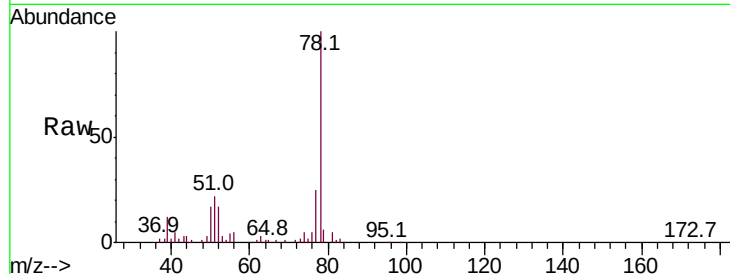


#36
Benzene
Concen: 0.464 ppbv
RT: 6.89
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 18 Nov 2021 23:44

Tot Ion:
Ion Ratio
78 100
77 24.
50 16.

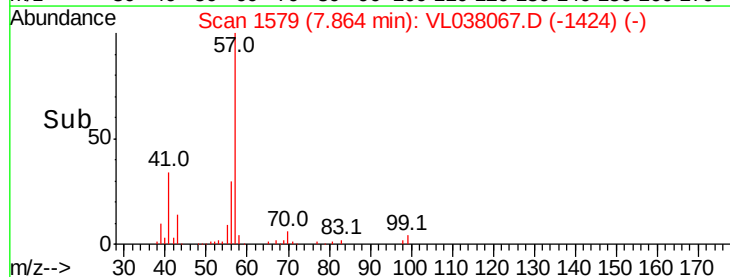
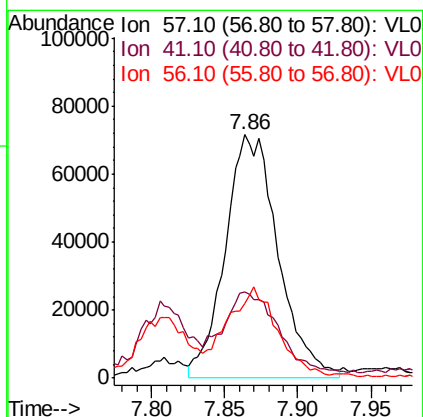
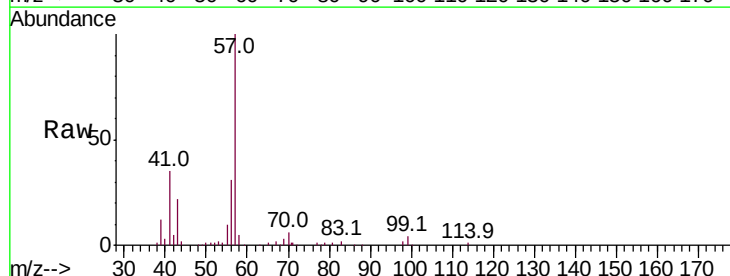
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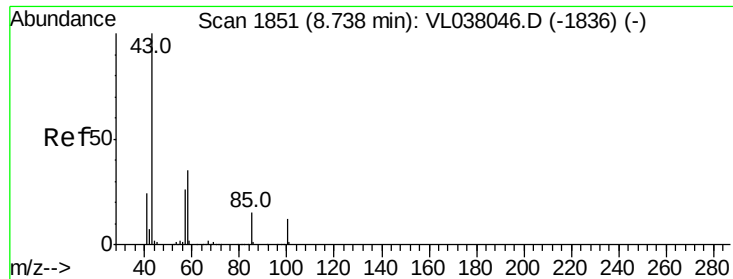
Reviewed By :Semsettin Yesilyurt 11/25/2021
Supervised By :Mahesh Dadoda 11/29/2021



#44
2,2,4-Trimethylpentane
Concen: 0.447 ppbv m
RT: 7.86 min Scan# 1579
Delta R.T. -0.00 min
Lab File: VL038067.D
Acq: 18 Nov 2021 23:44

Tgt Ion: 57 Resp: 180117
Ion Ratio Lower Upper
57 100
41 0.0 25.8 38.6#
56 34.9 25.6 38.4



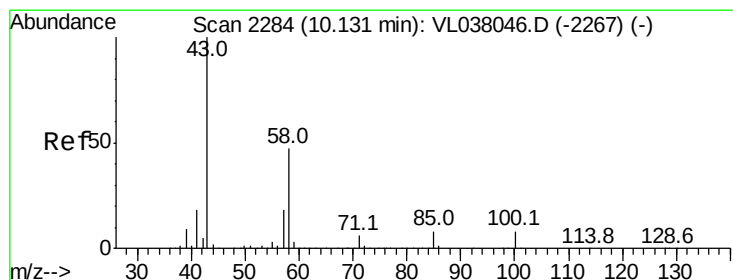
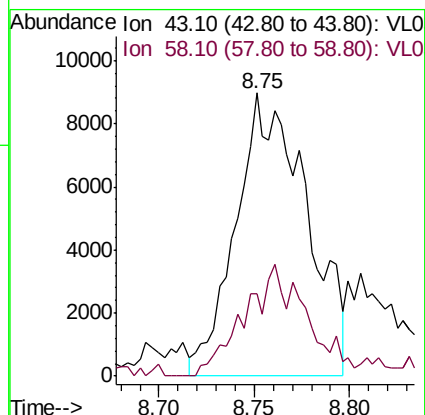
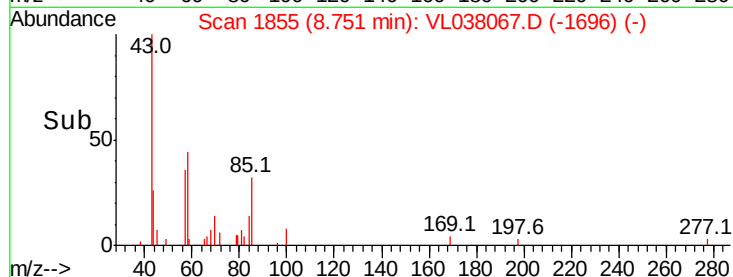
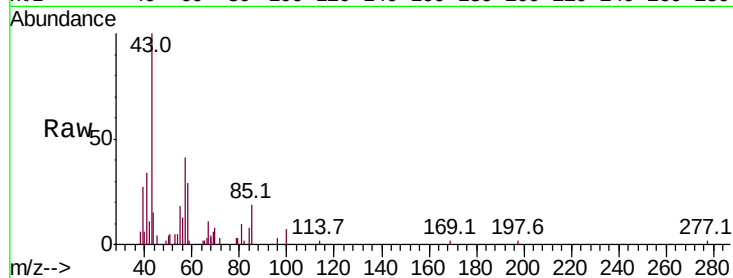


#50
4-Methyl-2-Pentanone
Concen: 0.156 ppbv m
RT: 8.75 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
57-NEONEY
Acq: 18 Nov 2021 23:44

Tot Ion:
Ion Ratio
43 100
58 0.

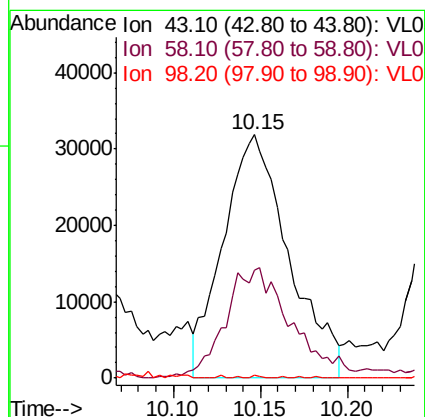
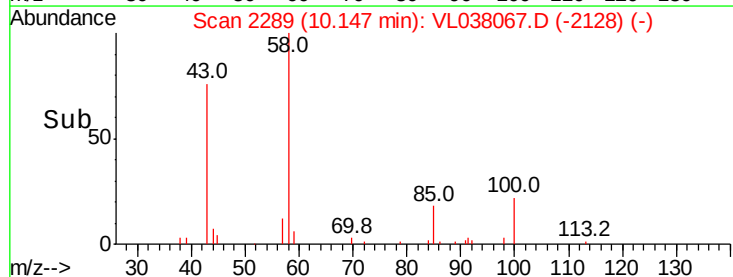
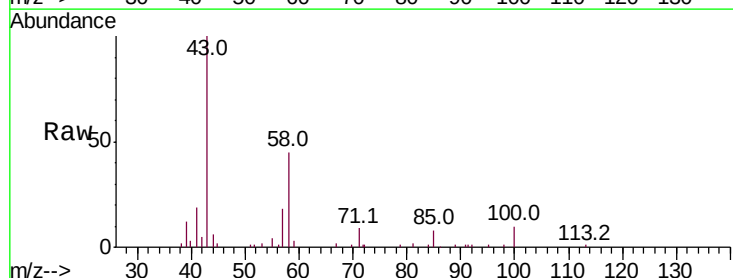
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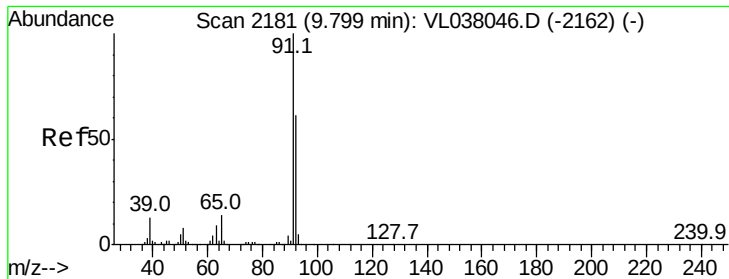
Reviewed By :Semsettin Yesilyurt 11/25/2021
Supervised By :Mahesh Dadoda 11/29/2021



#51
2-Hexanone
Concen: 1.203 ppbv m
RT: 10.15 min Scan# 2289
Delta R.T.: 0.02 min
Lab File: VL038067.D
Acq: 18 Nov 2021 23:44

Tgt Ion: 43 Resp: 83702
Ion Ratio Lower Upper
43 100
58 47.2 41.1 61.7
98 0.2 0.1 0.1#



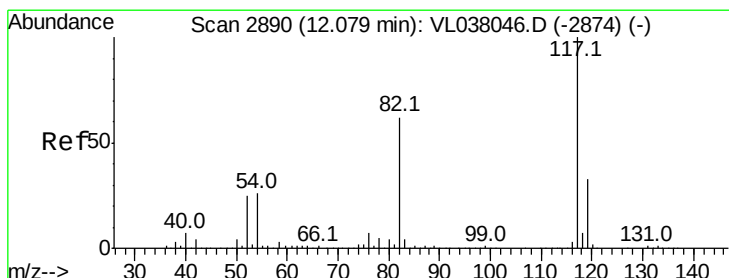
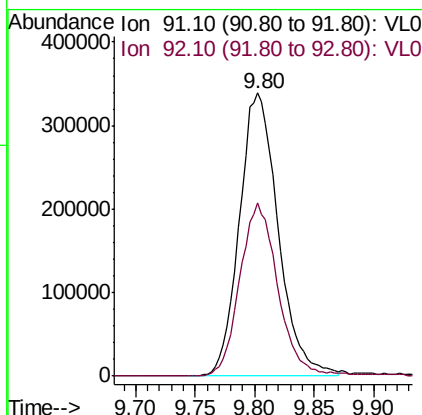
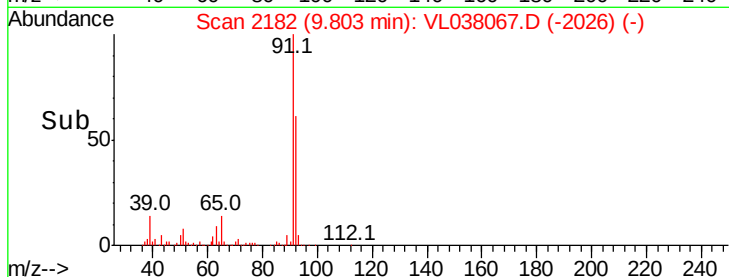
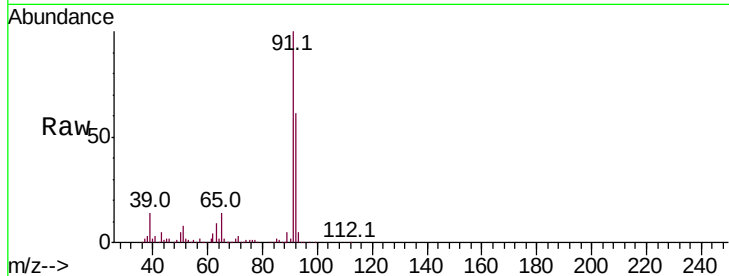


#53
Toluene
Concen: 2.767 ppbv
RT: 9.80
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 18 Nov 2021 23:44

Tot Ion:
Ion Ratio
91 100
92 60.

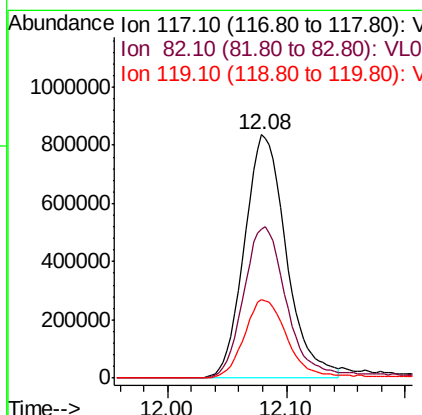
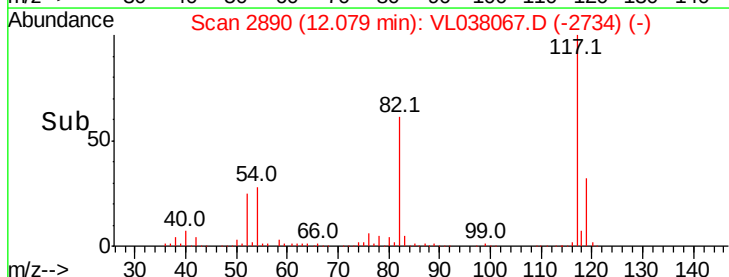
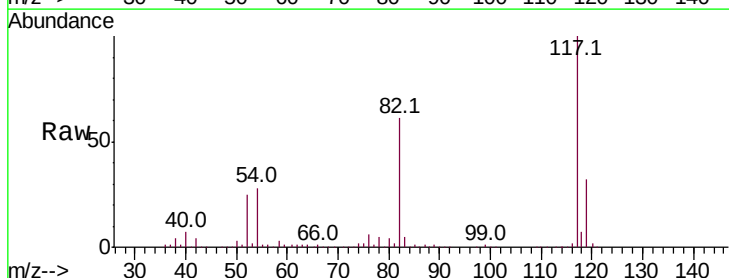
Manual Integrations
APPROVED

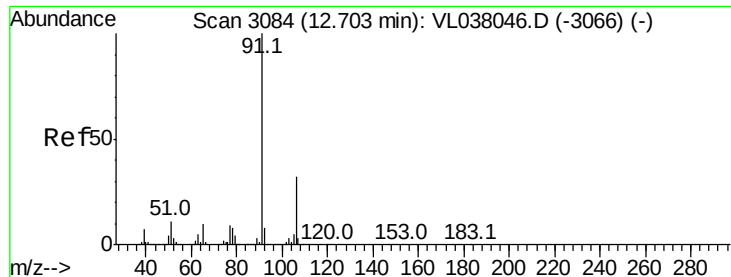
Reviewed By :Semsettin Yesilyurt 11/25/2021
Supervised By :Mahesh Dadoda 11/29/2021



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.08 min Scan# 2890
Delta R.T. -0.00 min
Lab File: VL038067.D
Acq: 18 Nov 2021 23:44

Tgt Ion:117 Resp: 2040113
Ion Ratio Lower Upper
117 100
82 67.1 52.8 79.2
119 35.1 26.8 40.2



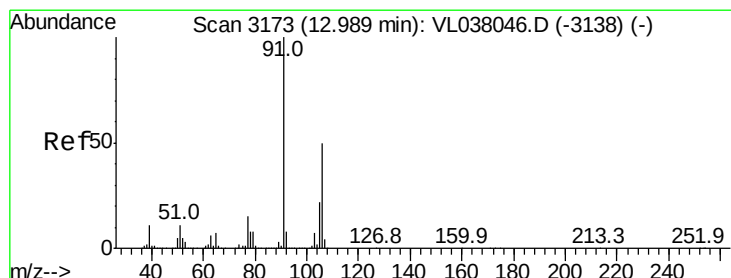
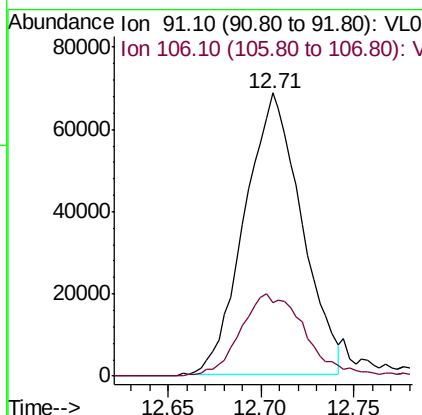
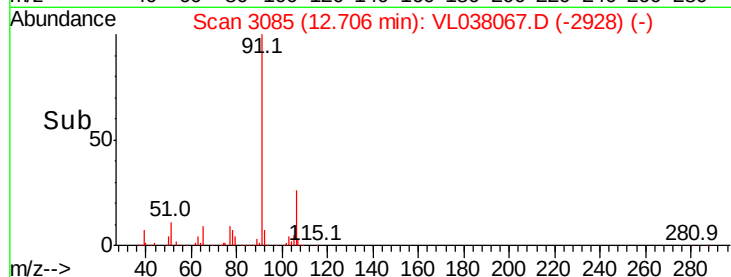
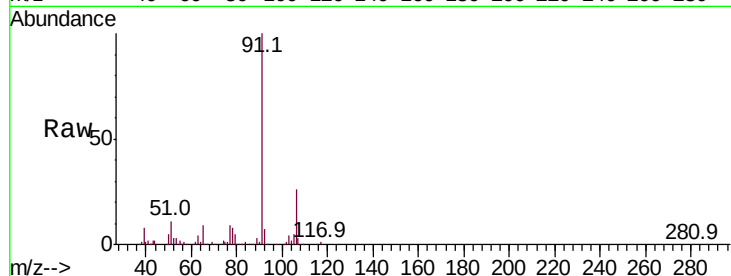


#58
Ethyl Benzene
Concen: 0.433 ppbv
RT: 12.71
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 18 Nov 2021 23:44

Tot Ion:
Ion Ratio
91 100
106 25.

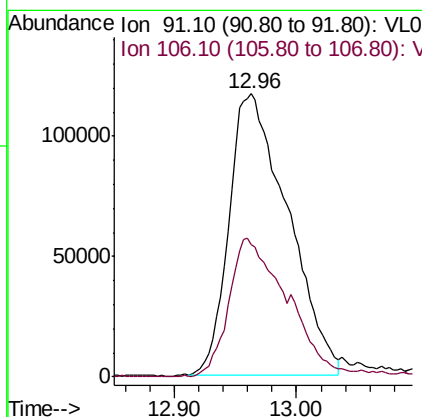
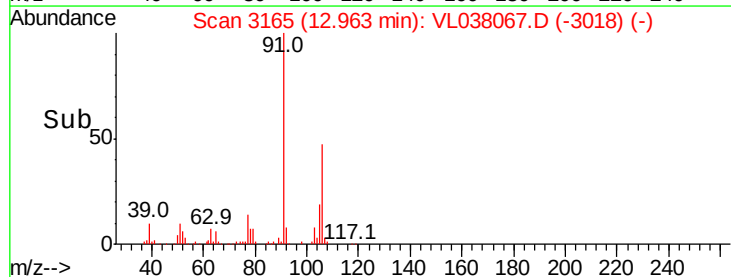
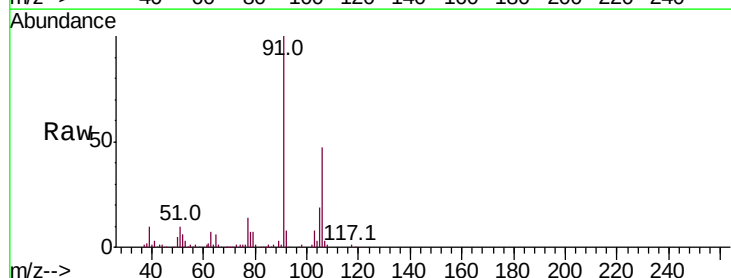
Manual Integrations
APPROVED

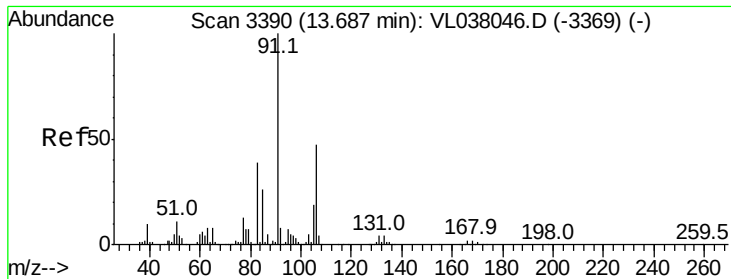
Reviewed By :Semsettin Yesilyurt 11/25/2021
Supervised By :Mahesh Dadoda 11/29/2021



#59
m/p-Xylene
Concen: 1.374 ppbv
RT: 12.96 min Scan# 3165
Delta R.T. -0.03 min
Lab File: VL038067.D
Acq: 18 Nov 2021 23:44

Tgt Ion: 91 Resp: 389937
Ion Ratio Lower Upper
91 100
106 50.8 38.1 57.1





#60

o-Xylene

Concen: 0.540 ppbv

RT: 13.69

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 18 Nov 2021 23:44

Tot Ion:

Ion Ratio

91 100

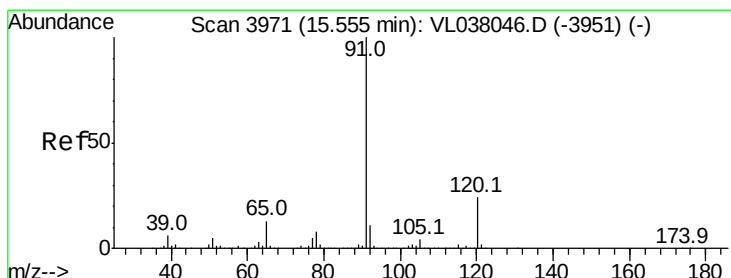
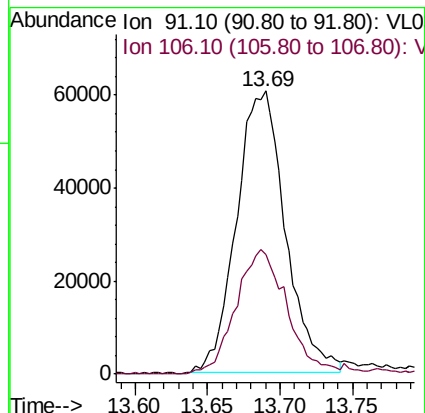
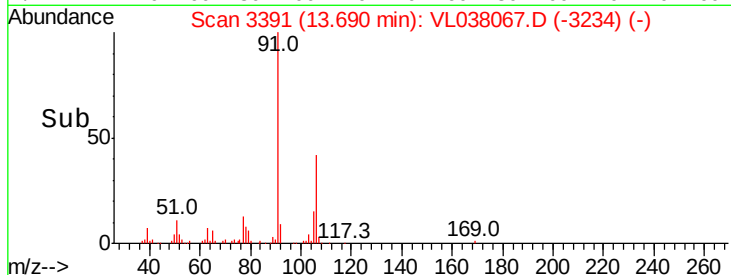
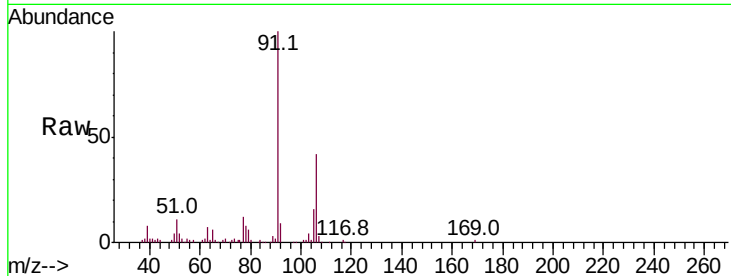
106 49.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/25/2021

Supervised By :Mahesh Dadoda 11/29/2021



#64

n-propylbenzene

Concen: 0.104 ppbv m

RT: 15.56 min Scan# 3973

Delta R.T. 0.01 min

Lab File: VL038067.D

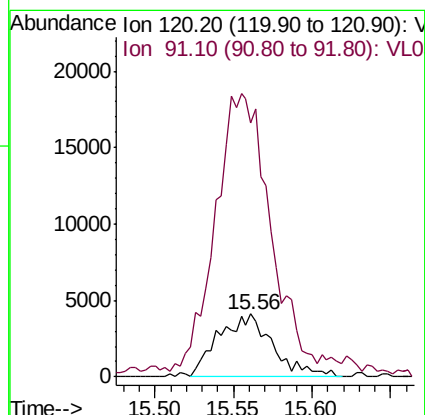
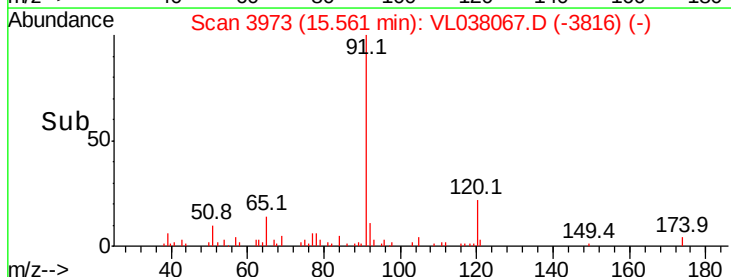
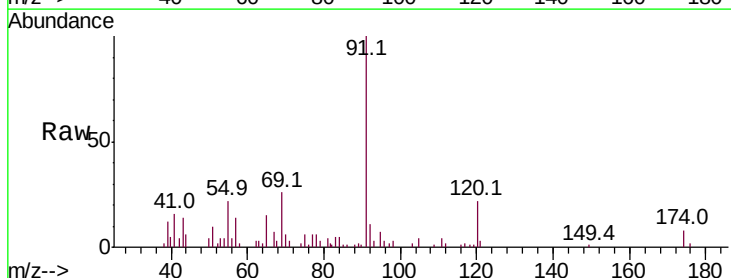
Acq: 18 Nov 2021 23:44

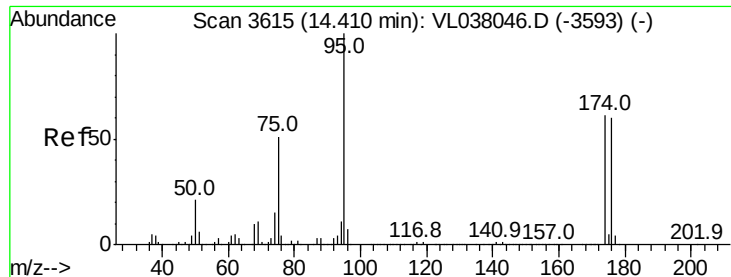
Tgt Ion:120 Resp: 9921

Ion Ratio Lower Upper

120 100

91 477.6 371.7 557.5





#68

1-Bromo-4-Fluorobenzene

Concen: 10.194 ppbv

RT: 14.41

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 18 Nov 2021 23:44

Tot Ion:

Ion Ratio

95 100

174 66.

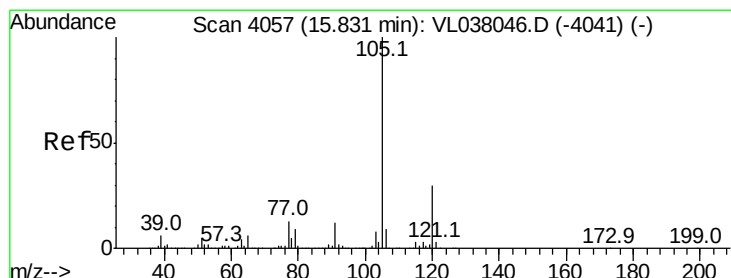
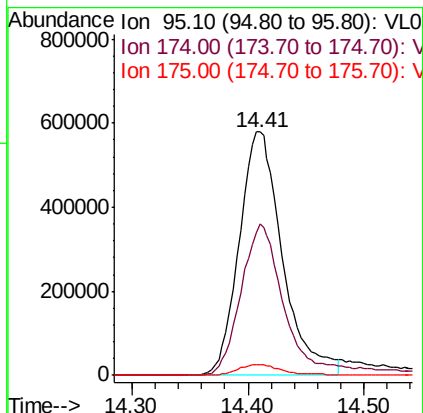
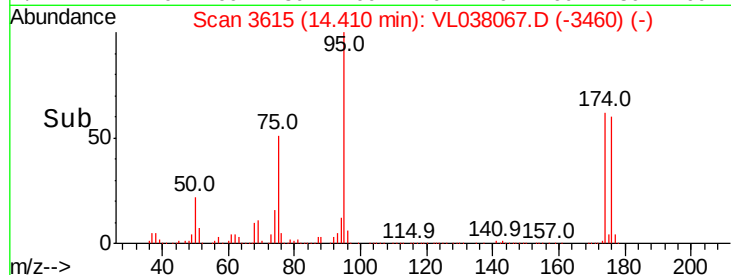
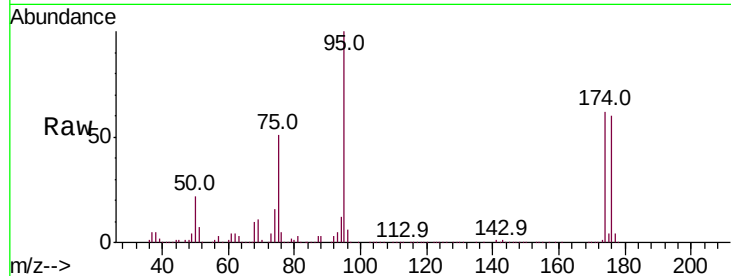
175 4.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/25/2021

Supervised By :Mahesh Dadoda 11/29/2021



#72

4-Ethyltoluene

Concen: 0.175 ppbv m

RT: 15.83 min Scan# 4057

Delta R.T. -0.00 min

Lab File: VL038067.D

Acq: 18 Nov 2021 23:44

Tgt Ion:105 Resp: 53354

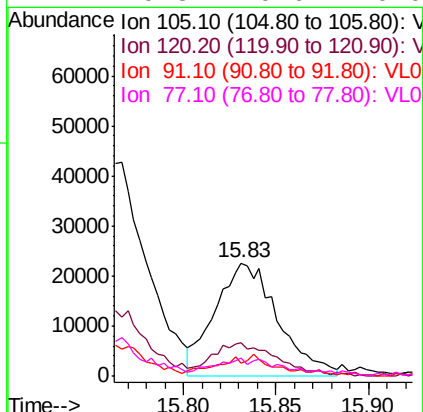
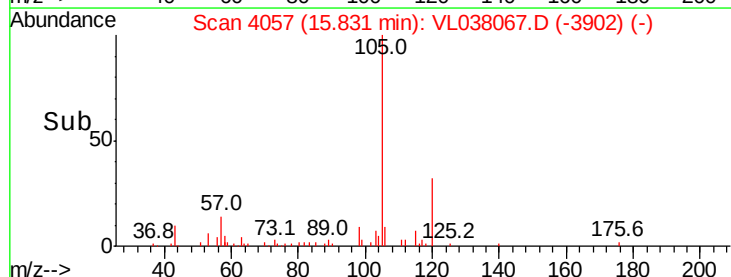
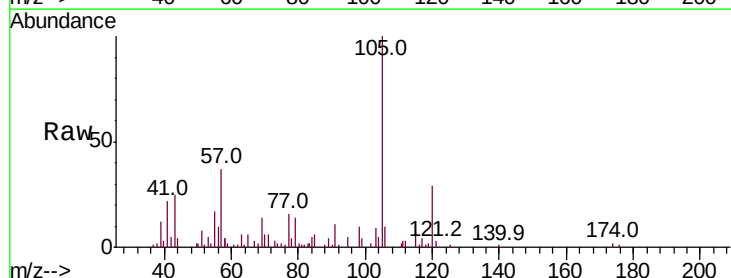
Ion Ratio Lower Upper

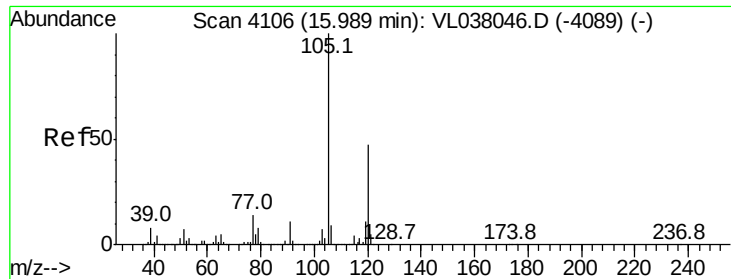
105 100

120 30.3 25.1 37.7

91 0.0 9.7 14.5#

77 19.3 10.6 16.0#





#73

1,3,5-Trimethylbenzene

Concen: 0.116 ppbv m

RT: 15.99

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 18 Nov 2021 23:44

Tot Ion:1

Ion Rati

105 100

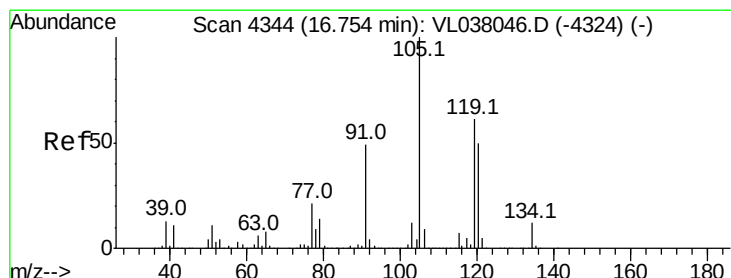
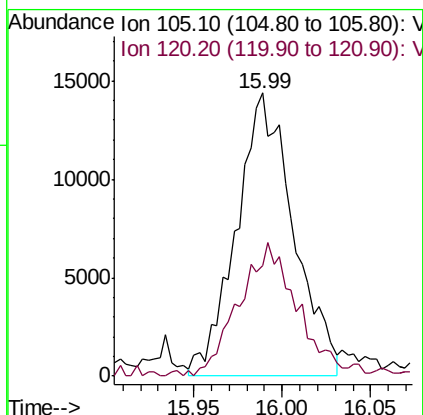
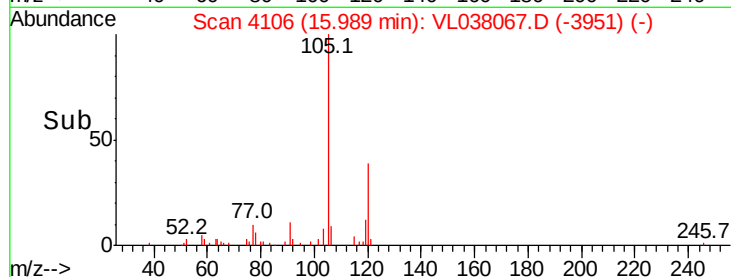
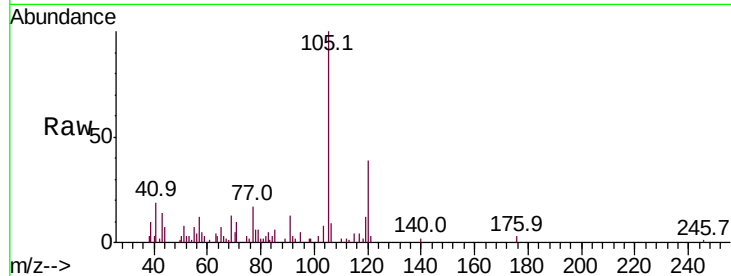
120 39.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/25/2021

Supervised By :Mahesh Dadoda 11/29/2021



#74

1,2,4-Trimethylbenzene

Concen: 0.435 ppbv

RT: 16.75 min Scan# 4344

Delta R.T. -0.00 min

Lab File: VL038067.D

Acq: 18 Nov 2021 23:44

Tgt Ion:105 Resp: 125111

Ion Ratio Lower Upper

105 100

120 42.3 40.1 60.1

91 10.5 39.8 59.8#

77 13.1 16.6 25.0#

