

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL051322\
 Data File : VL039051.D
 Acq On : 14 May 2022 00:32
 Operator : SY/AP
 Sample : N2828-02
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA L
 ClientSampleId :
 IA2

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 05/16/2022
 Supervised By : Mahesh Dadoda 05/17/2022

Quant Time: May 14 03:52:15 2022
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL050522A
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:
 QLast Update : Thu May 05 10:12:15 2022
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	886662	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.16	114	2155005	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.06	117	1803167	10.00	ppbv	-0.02

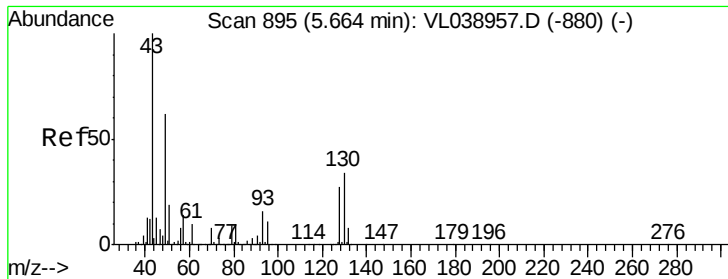
System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 14.39 95 1450470 10.16 ppbv -0.01
 Spiked Amount 10.000 Range 65 - 135 Recovery = 101.60%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	3.04	85	46898	0.338	ppbv	94
3) Chlorodifluoromethane	2.98	51	167739m	1.525	ppbv	
4) Chloromethane	3.13	50	37629m	0.683	ppbv	
9) Propene	3.02	41	521539m	10.855	ppbv	
10) Heptane	8.10	43	34994	0.297	ppbv	90
11) Trichlorofluoromethane	3.94	101	30564m	0.256	ppbv	
13) Ethanol	3.59	45	3255451	957.415	ppbv	91
15) Acetone	3.84	43	446259	5.336	ppbv #	82
17) tert-Butyl alcohol	4.30	59	9040m	0.141	ppbv	
19) Isopropyl Alcohol	3.95	45	1100473	27.673	ppbv	100
20) Methylene Chloride	4.33	84	132065	4.189	ppbv	95
25) Ethyl Acetate	5.67	43	286910	1.433	ppbv #	97
29) Chloroform	5.74	83	144924	1.007	ppbv	95
30) Cyclohexane	7.11	84	17092m	0.230	ppbv	
34) 2-Butanone	5.23	43	40886	0.372	ppbv #	91
35) Carbon Tetrachloride	7.00	117	8570m	0.060	ppbv	
36) Benzene	6.87	78	68577	0.372	ppbv	96
44) 2,2,4-Trimethylpentane	7.84	57	157433m	0.486	ppbv	
52) Tetrachloroethene	11.20	164	47701m	0.724	ppbv	
53) Toluene	9.79	91	281294	1.361	ppbv	98
58) Ethyl Benzene	12.69	91	49255m	0.190	ppbv	
59) m/p-Xylene	12.95	91	147174m	0.664	ppbv	
60) o-Xylene	13.67	91	59423m	0.285	ppbv	
72) 4-Ethyltoluene	15.82	105	26444m	0.111	ppbv	
73) 1,3,5-Trimethylbenzene	15.98	105	22705m	0.106	ppbv	
74) 1,2,4-Trimethylbenzene	16.73	105	95392m	0.407	ppbv	

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: IA2

Acq: 14 May 2022 00:32

Tot Ion:

Ion Ratio

49 100

128 48.

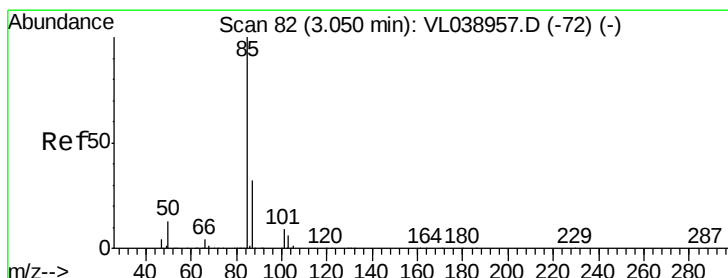
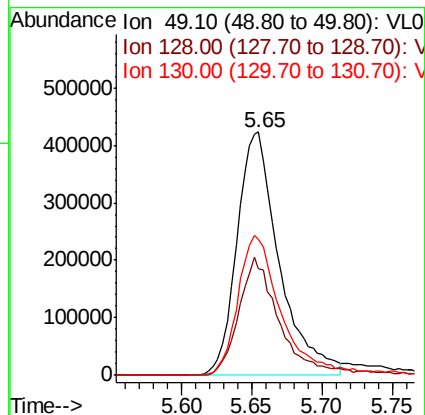
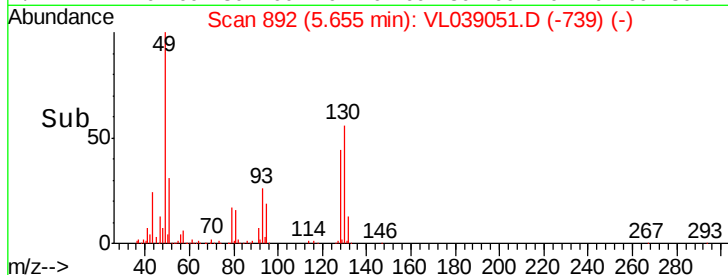
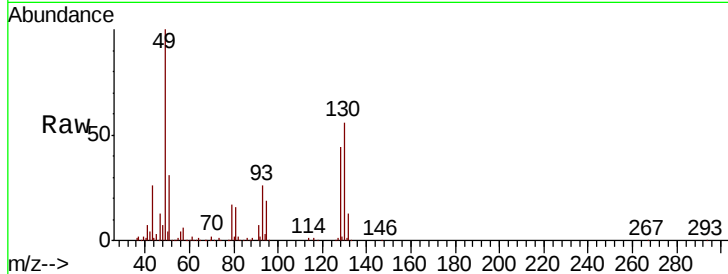
130 61.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 05/16/2022

Supervised By :Mahesh Dadoda 05/17/2022



#2

Dichlorodifluoromethane

Concen: 0.338 ppbv

RT: 3.04 min Scan# 79

Delta R.T. -0.01 min

Lab File: VL039051.D

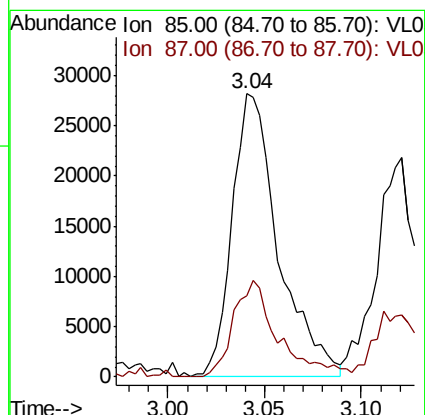
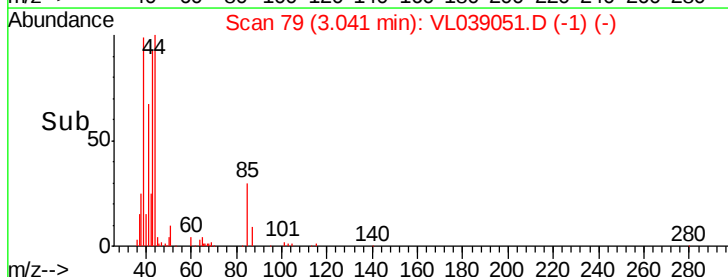
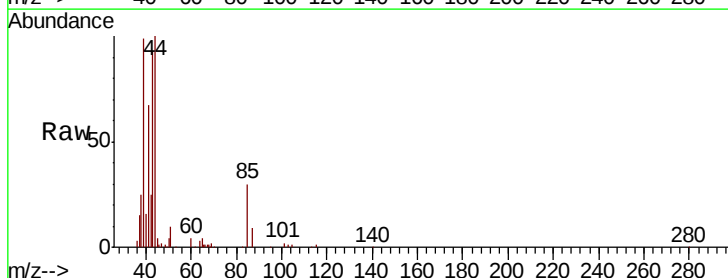
Acq: 14 May 2022 00:32

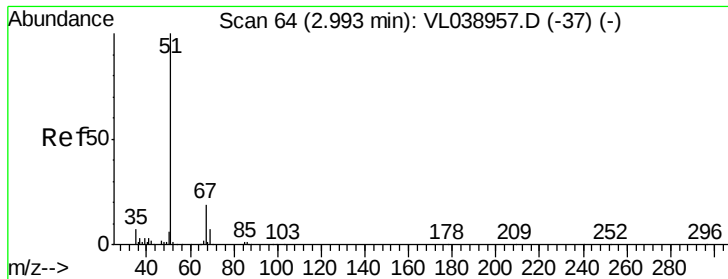
Tgt Ion: 85 Resp: 46898

Ion Ratio Lower Upper

85 100

87 28.5 25.7 38.5





#3

Chlorodifluoromethane

Concen: 1.525 ppbv m

RT: 2.98 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: IA2

Acq: 14 May 2022 00:32

Tot Ion:

Ion Ratio

51 100

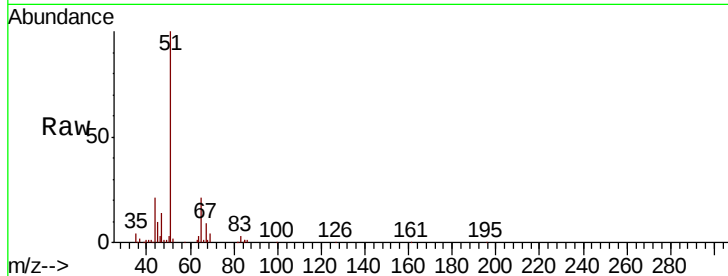
67 13.

Manual Integrations

APPROVED

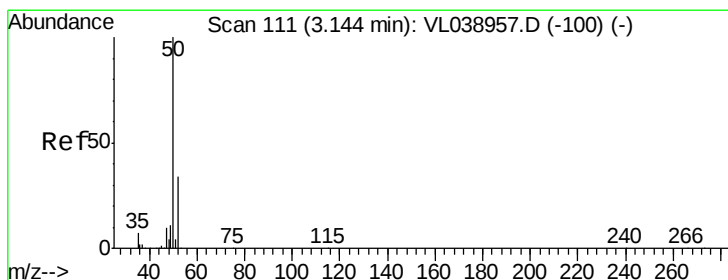
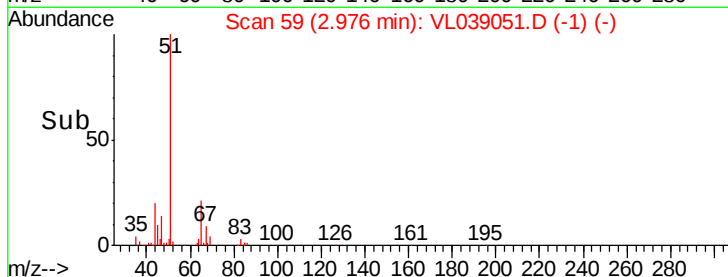
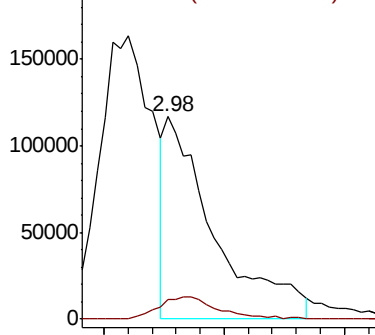
Reviewed By :Semsettin Yesilyurt 05/16/2022

Supervised By :Mahesh Dadoda 05/17/2022



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.683 ppbv m

RT: 3.13 min Scan# 107

Delta R.T. -0.01 min

Lab File: VL039051.D

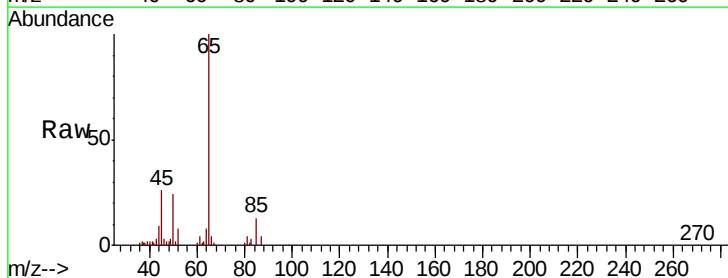
Acq: 14 May 2022 00:32

Tgt Ion: 50 Resp: 37629

Ion Ratio Lower Upper

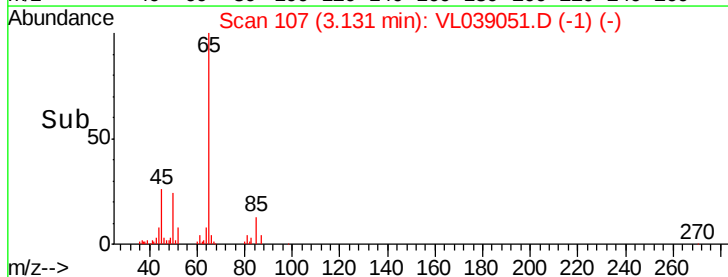
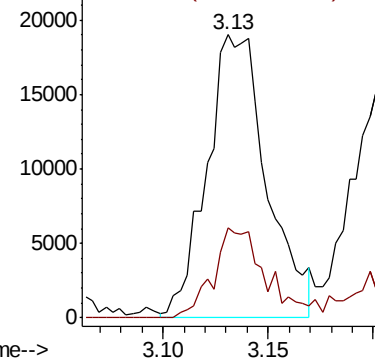
50 100

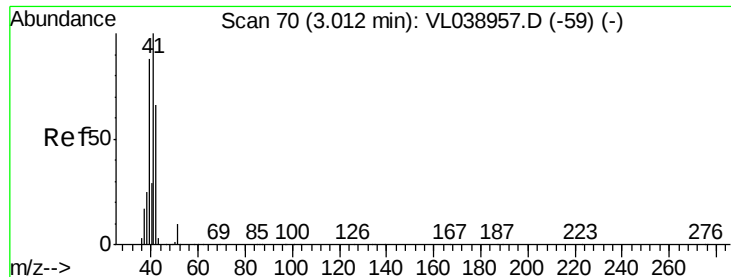
52 31.7 27.3 40.9



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0



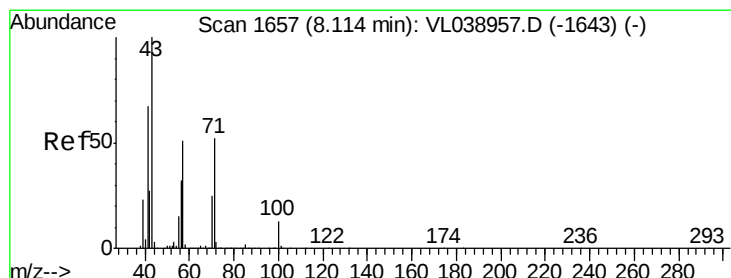
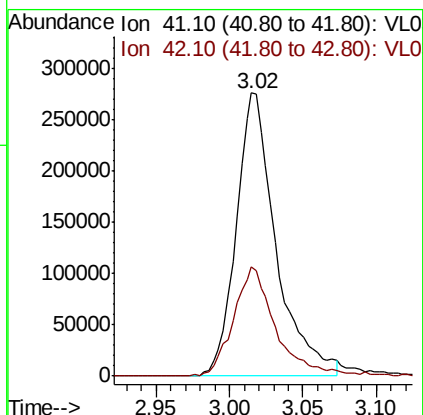
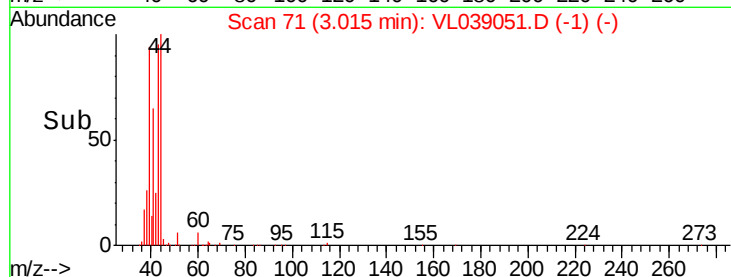
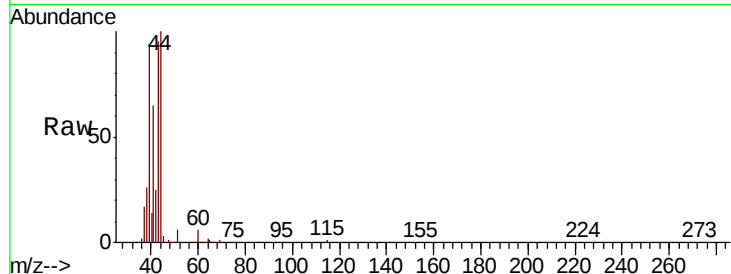


#9
 Propene
 Concen: 10.855 ppbv m
 RT: 3.02
 Instrument : MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId :
 Acq: 14 May 2022 00:32

Tot Ion:
 Ion Ratio
 41 100
 42 119.

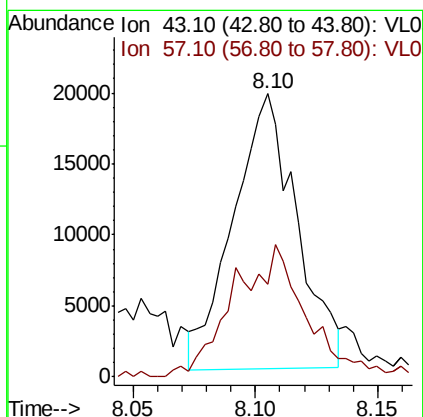
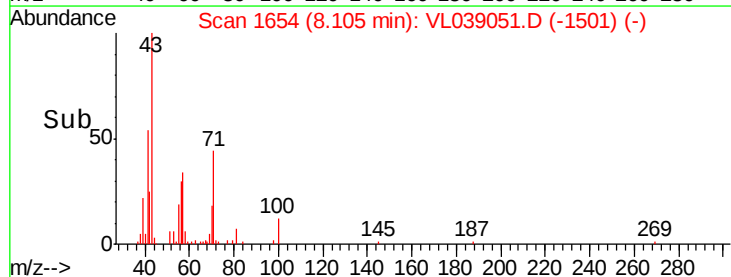
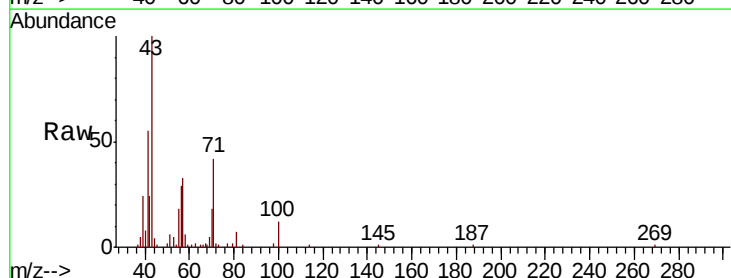
Manual Integrations
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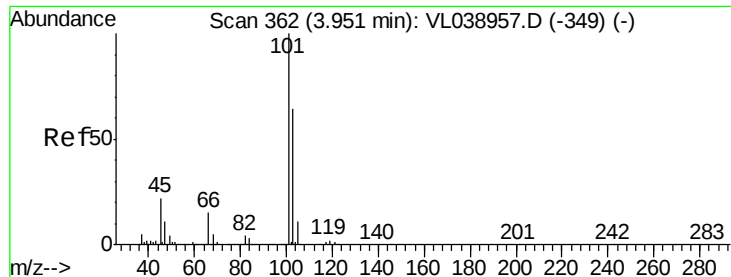
Reviewed By :Semsettin Yesilyurt 05/16/2022
 Supervised By :Mahesh Dadoda 05/17/2022



#10
 Heptane
 Concen: 0.297 ppbv
 RT: 8.10 min Scan# 1654
 Delta R.T. -0.01 min
 Lab File: VL039051.D
 Acq: 14 May 2022 00:32

Tgt Ion: 43 Resp: 34994
 Ion Ratio Lower Upper
 43 100
 57 57.4 40.5 60.7



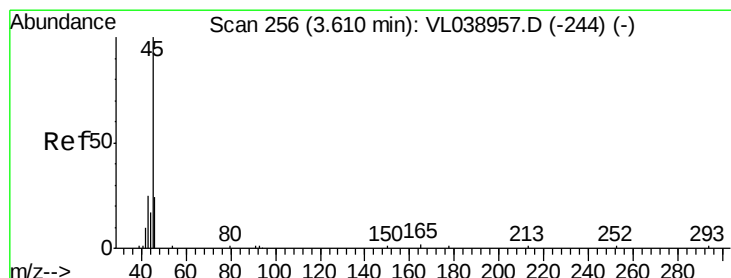
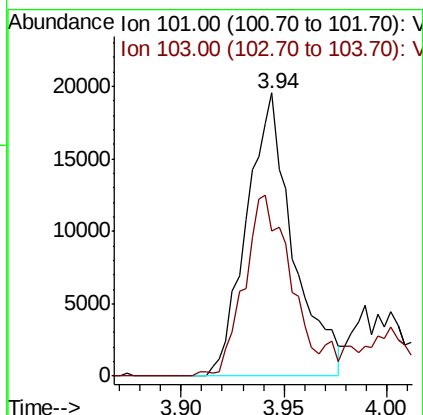
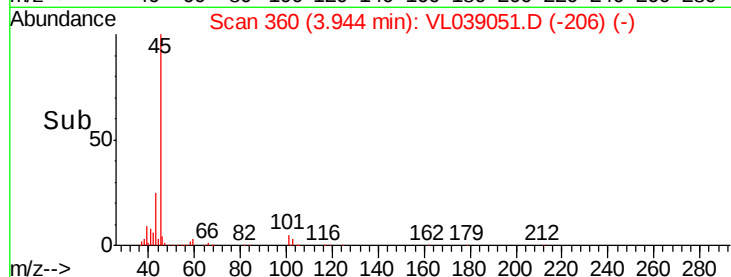
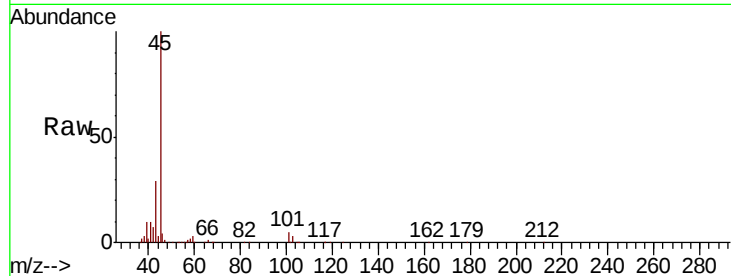


#11
Trichlorofluoromethane
Concen: 0.256 ppbv m
RT: 3.94
Instrument: MSVOA_L
Delta R.T.:
Lab File: ClientSampleId :
Acq: 14 May 2022 00:32

Tot Ion:1
Ion Rati
101 100
103 51.

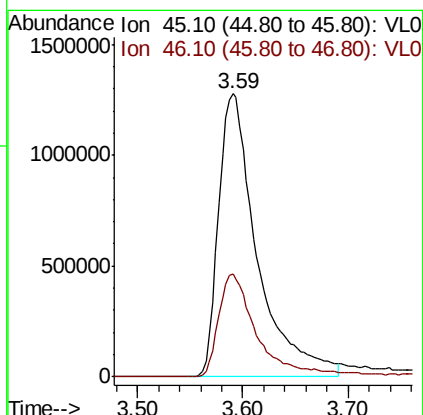
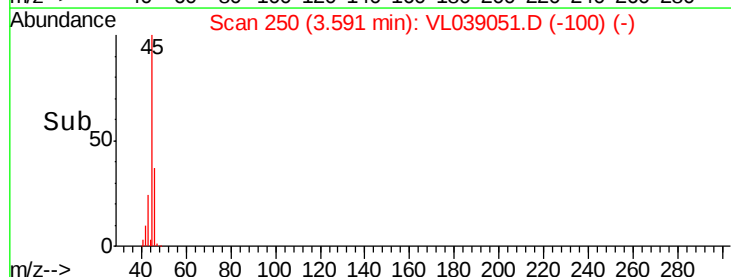
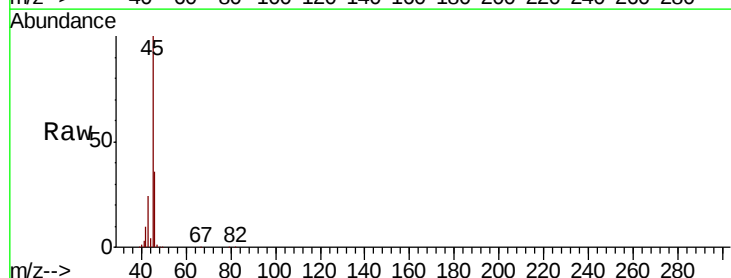
Manual Integrations
APPROVED

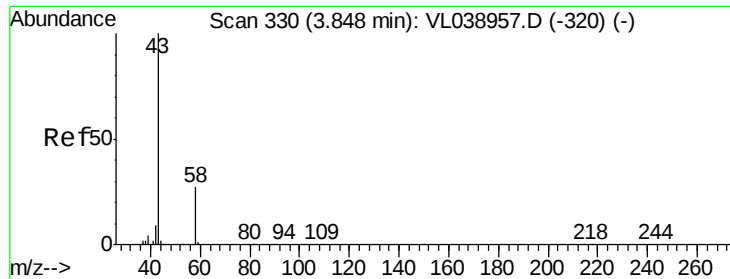
Reviewed By :Semsettin Yesilyurt 05/16/2022
Supervised By :Mahesh Dadoda 05/17/2022



#13
Ethanol
Concen: 957.415 ppbv
RT: 3.59 min Scan# 250
Delta R.T. -0.02 min
Lab File: VL039051.D
Acq: 14 May 2022 00:32

Tgt Ion: 45 Resp: 3255451
Ion Ratio Lower Upper
45 100
46 38.9 18.0 72.2



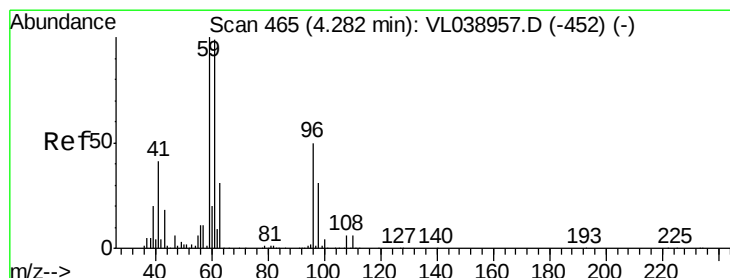
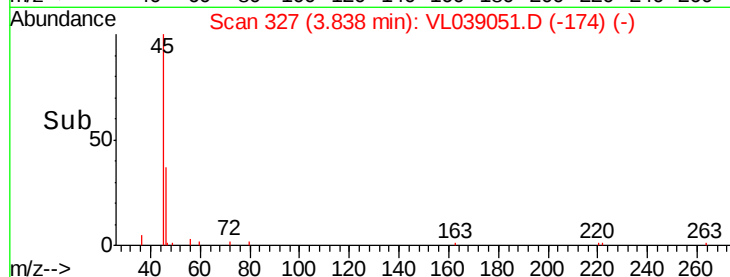
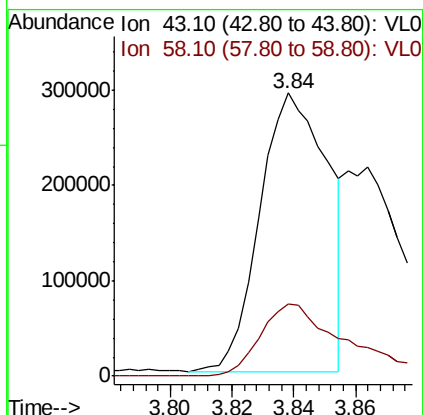
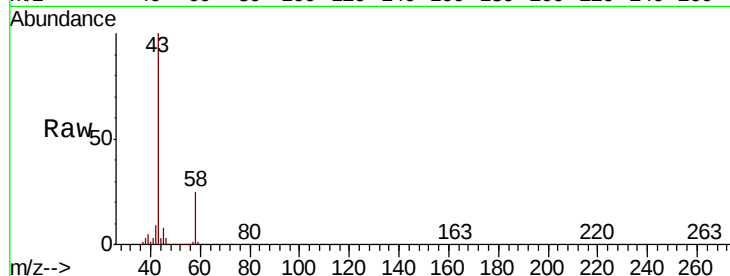


#15
Acetone
Concen: 5.336 ppbv
RT: 3.84
Delta R.T. MSVOA_L
Lab File: ClientSampled :
Acq: 14 May 2022 00:32

Tot Ion:
Ion Ratio
43 100
58 35.

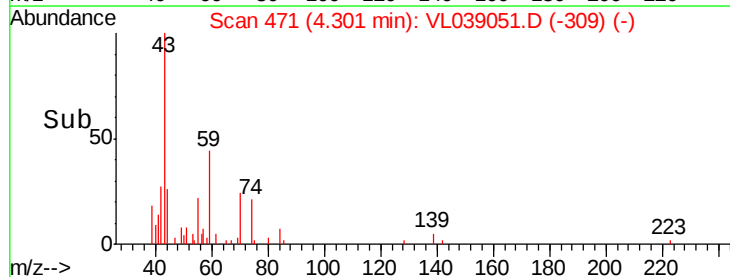
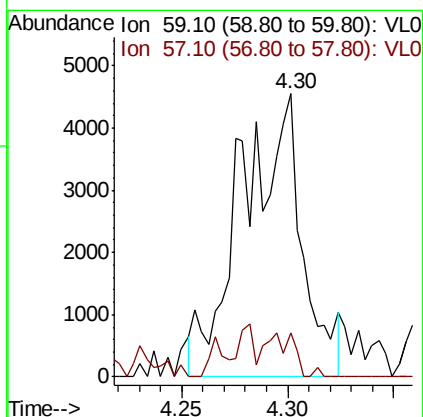
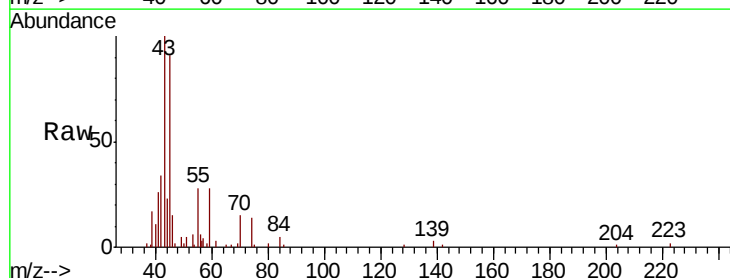
Manual Integrations
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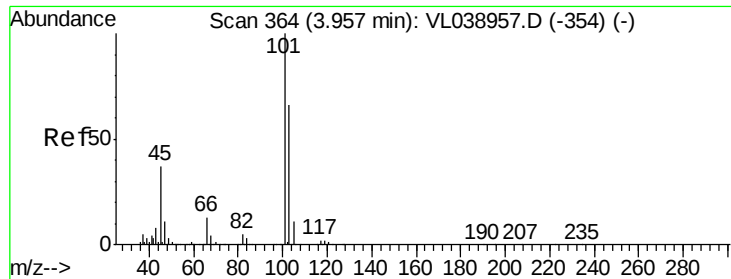
Reviewed By :Semsettin Yesilyurt 05/16/2022
Supervised By :Mahesh Dadoda 05/17/2022



#17
tert-Butyl alcohol
Concen: 0.141 ppbv m
RT: 4.30 min Scan# 471
Delta R.T. 0.02 min
Lab File: VL039051.D
Acq: 14 May 2022 00:32

Tgt Ion: 59 Resp: 9040
Ion Ratio Lower Upper
59 100
57 0.0 9.2 13.8#



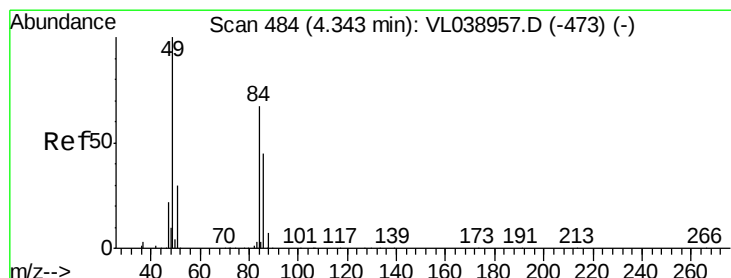
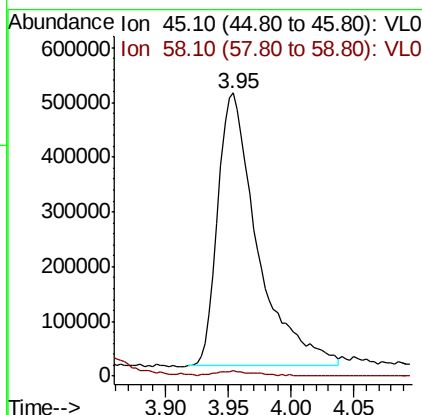
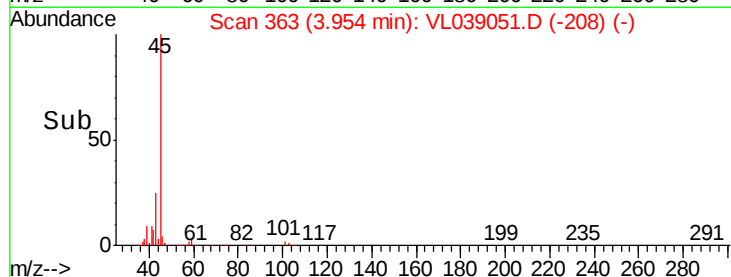
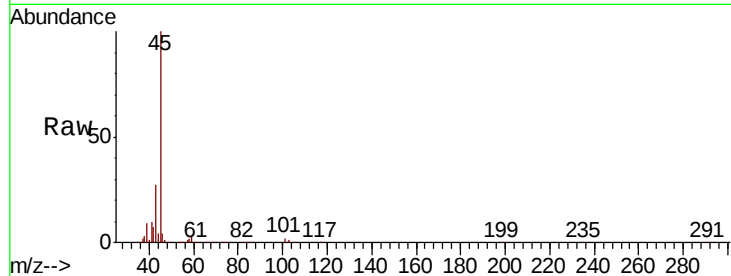


#19
Isopropyl Alcohol
Concen: 27.673 ppbv
RT: 3.95 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 14 May 2022 00:32

Tot Ion:
Ion Ratio
45 100
58 1.

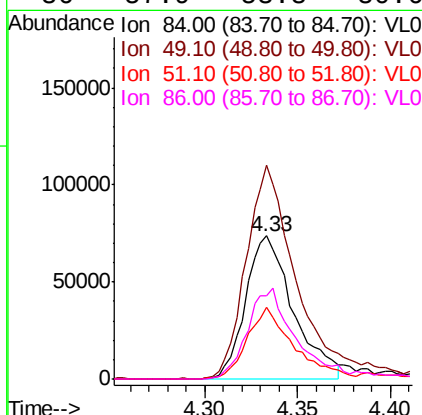
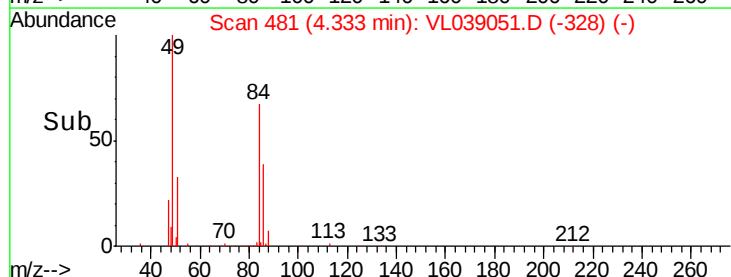
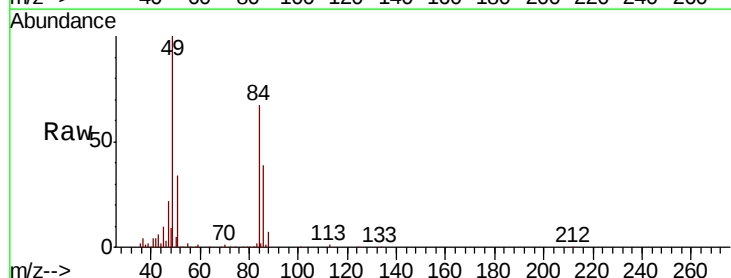
Manual Integrations
APPROVED

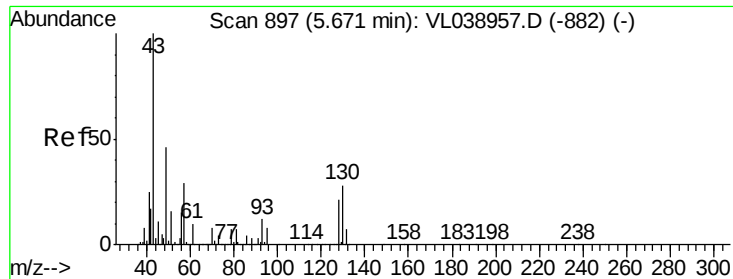
Reviewed By :Semsettin Yesilyurt 05/16/2022
Supervised By :Mahesh Dadoda 05/17/2022



#20
Methylene Chloride
Concen: 4.189 ppbv
RT: 4.33 min Scan# 481
Delta R.T. -0.01 min
Lab File: VL039051.D
Acq: 14 May 2022 00:32

Tgt Ion: 84 Resp: 132065
Ion Ratio Lower Upper
84 100
49 148.8 119.9 179.9
51 49.9 35.7 53.5
86 57.9 53.8 80.6



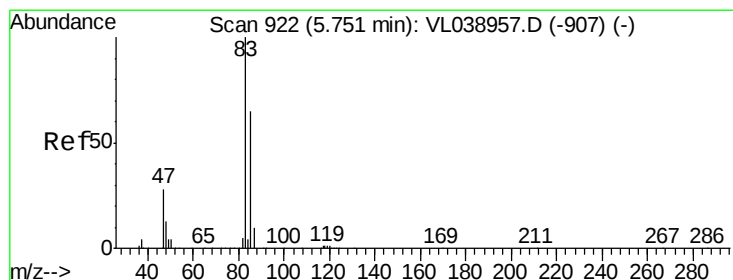
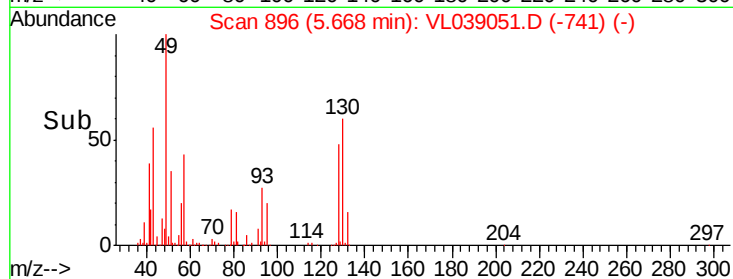
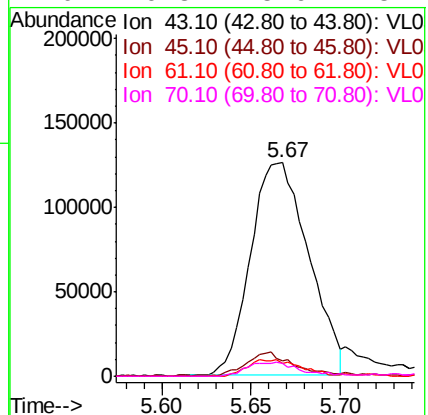
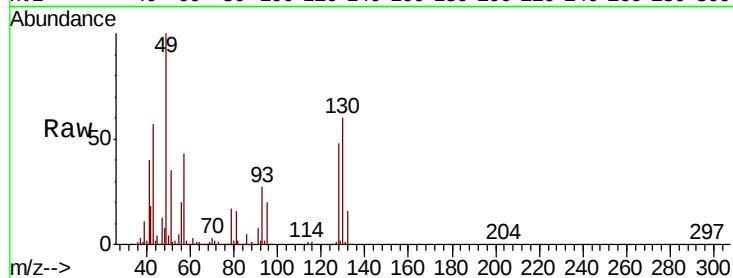


#25
Ethyl Acetate
Concen: 1.433 ppbv
RT: 5.67
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 14 May 2022 00:32

Tot Ion:
Ion Ratio
43 100
45 10.
61 7.
70 6.3 5.6 8.4

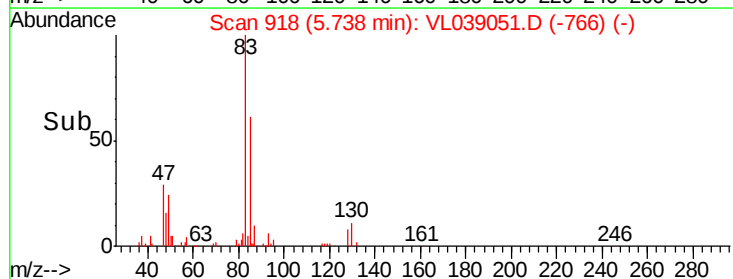
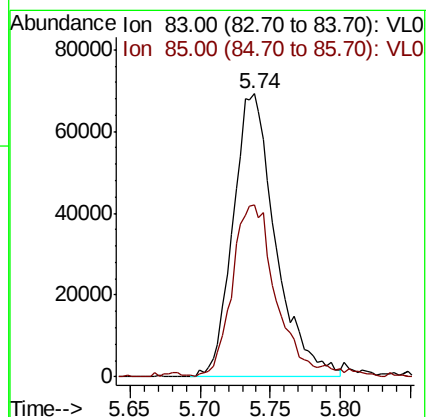
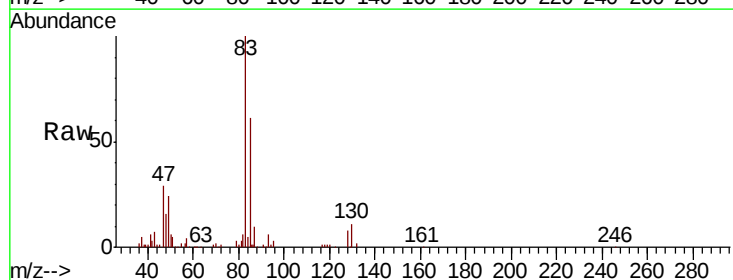
Manual Integrations
APPROVED

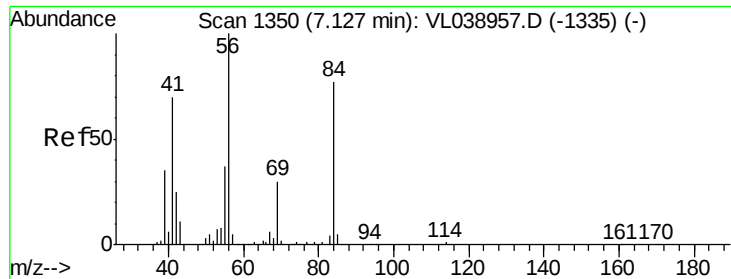
Reviewed By :Semsettin Yesilyurt 05/16/2022
Supervised By :Mahesh Dadoda 05/17/2022



#29
Chloroform
Concen: 1.007 ppbv
RT: 5.74 min Scan# 918
Delta R.T. -0.01 min
Lab File: VL039051.D
Acq: 14 May 2022 00:32

Tgt Ion: 83 Resp: 144924
Ion Ratio Lower Upper
83 100
85 60.4 51.8 77.6



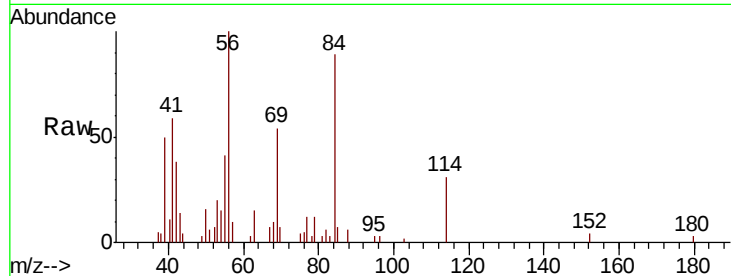


#30
Cvclohexane
Concen: 0.230 ppbv m
RT: 7.11 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 14 May 2022 00:32

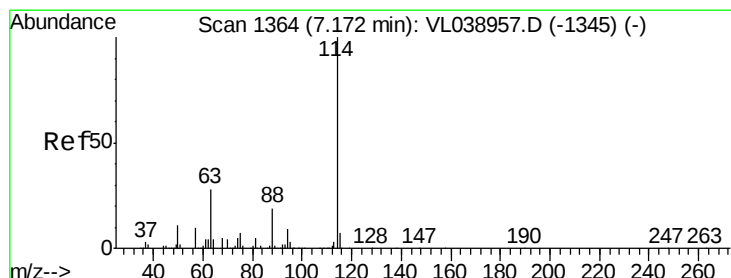
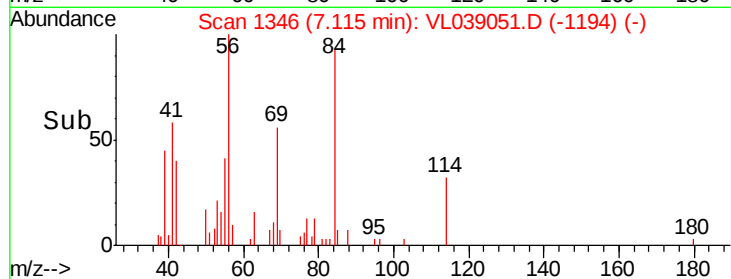
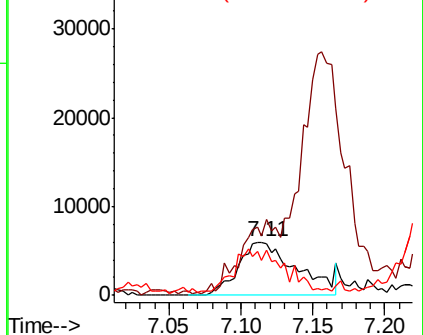
Tot Ion:
Ion Ratio
84 100
56 0.
41 84.

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Reviewed By :Semsettin Yesilyurt 05/16/2022
Supervised By :Mahesh Dadoda 05/17/2022

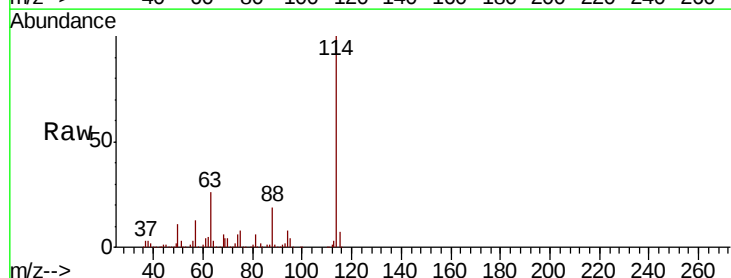


Abundance Ion 84.20 (83.90 to 84.90): VL0
Ion 56.10 (55.80 to 56.80): VL0
Ion 41.10 (40.80 to 41.80): VL0

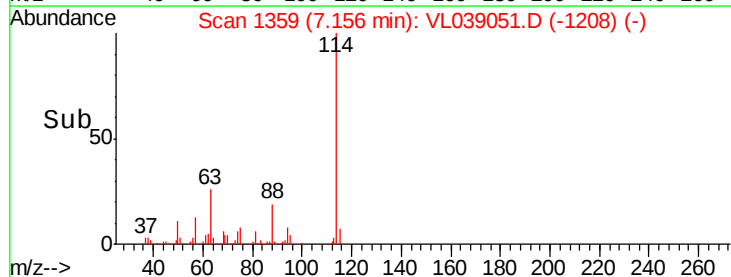
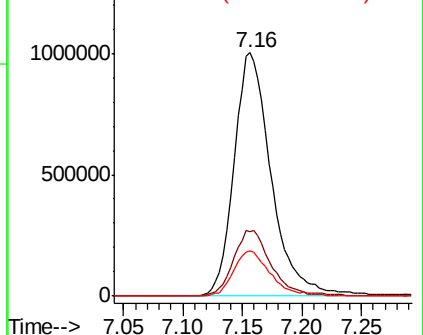


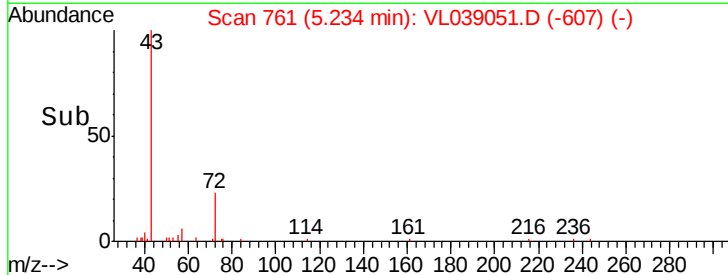
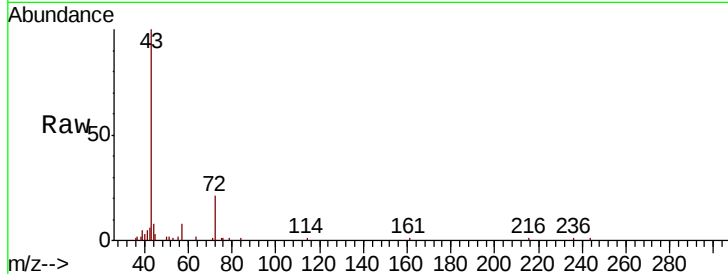
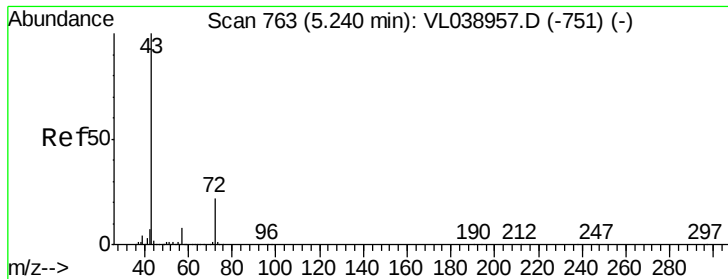
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.16 min Scan# 1359
Delta R.T. -0.02 min
Lab File: VL039051.D
Acq: 14 May 2022 00:32

Tgt Ion:114 Resp: 2155005
Ion Ratio Lower Upper
114 100
63 28.0 22.6 33.8
88 19.0 15.4 23.0



Abundance Ion 114.10 (113.80 to 114.80): V
Ion 63.10 (62.80 to 63.80): VL0
Ion 88.10 (87.80 to 88.80): VL0



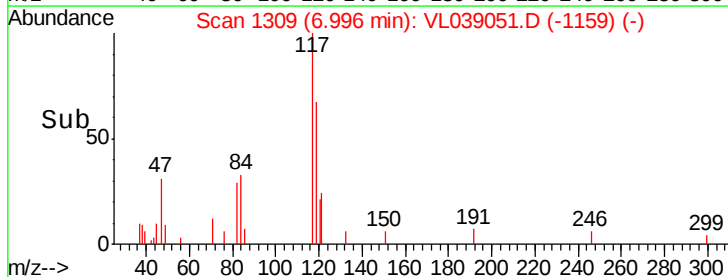
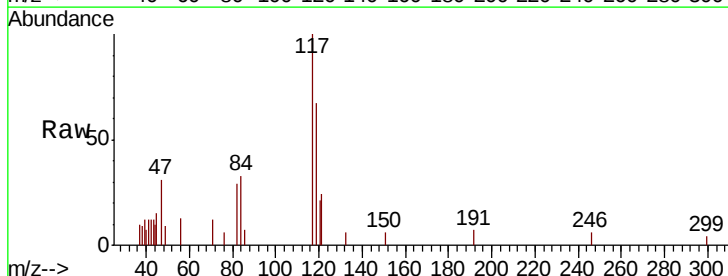
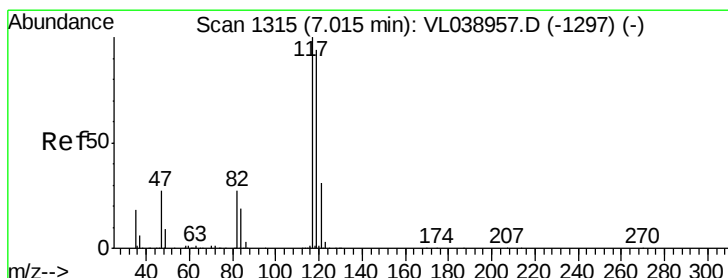
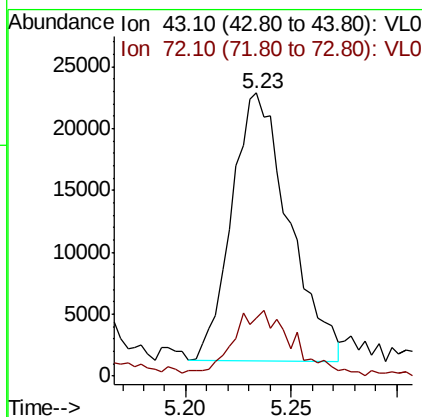


#34
2-Butanone
Concen: 0.372 ppbv
RT: 5.23
Delta R.T. MSVOA_L
Lab File: ClientSampled :
Acq: 14 May 2022 00:32

Tot Ion:
Ion Ratio
43 100
72 26.

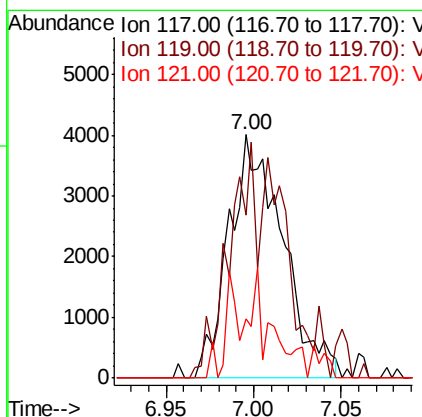
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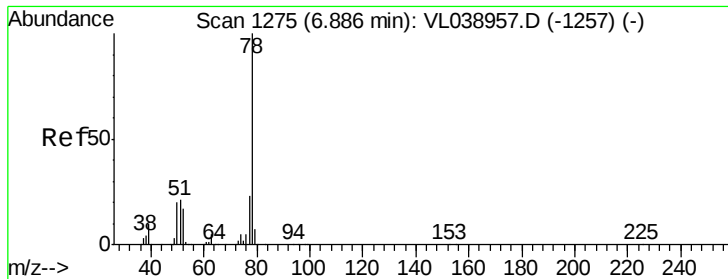
Reviewed By :Semsettin Yesilyurt 05/16/2022
Supervised By :Mahesh Dadoda 05/17/2022



#35
Carbon Tetrachloride
Concen: 0.060 ppbv m
RT: 7.00 min Scan# 1309
Delta R.T. -0.02 min
Lab File: VL039051.D
Acq: 14 May 2022 00:32

Tgt Ion:117 Resp: 8570
Ion Ratio Lower Upper
117 100
119 66.7 75.2 112.8#
121 24.4 24.6 37.0#



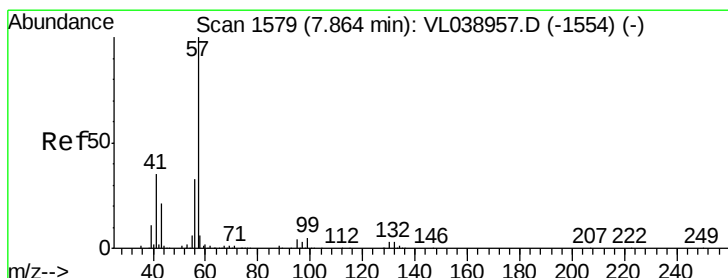
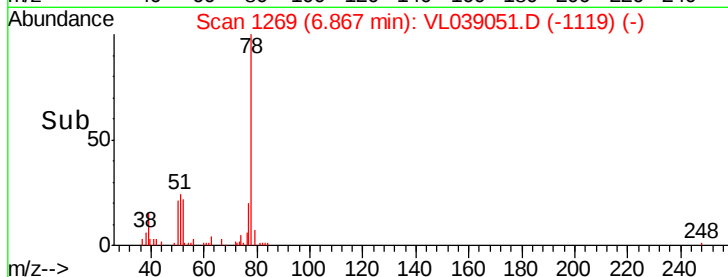
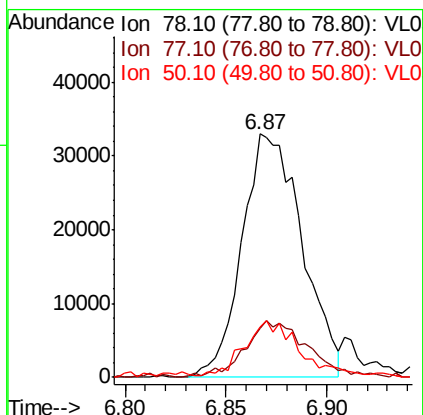
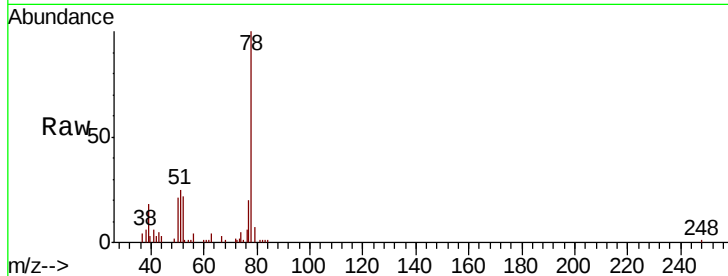


#36
Benzene
Concen: 0.372 ppbv
RT: 6.87
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 14 May 2022 00:32

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

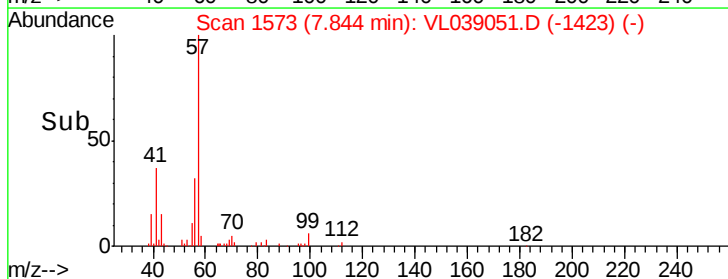
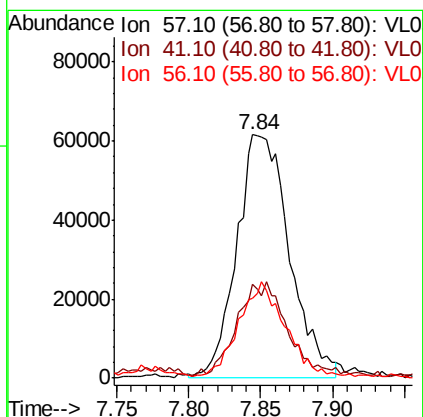
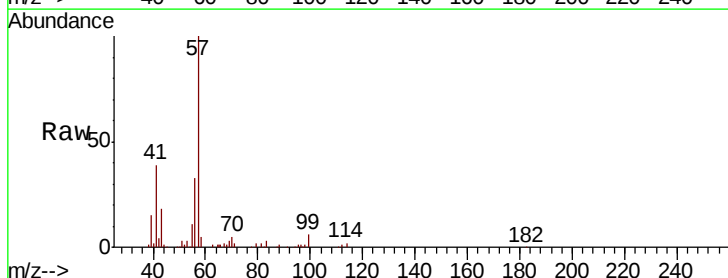
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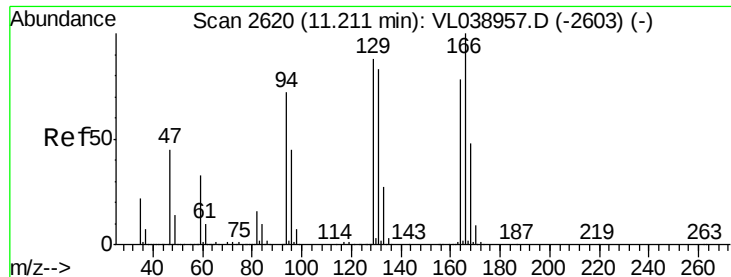
Reviewed By :Semsettin Yesilyurt 05/16/2022
Supervised By :Mahesh Dadoda 05/17/2022



#44
2,2,4-Trimethylpentane
Concen: 0.486 ppbv m
RT: 7.84 min Scan# 1573
Delta R.T. -0.02 min
Lab File: VL039051.D
Acq: 14 May 2022 00:32

Tgt Ion: 57 Resp: 157433
Ion Ratio Lower Upper
57 100
41 39.2 26.3 39.5
56 36.8 24.6 37.0





#52

Tetrachloroethene

Concen: 0.724 ppbv m

RT: 11.20

Delta R.T. MSVOA_L

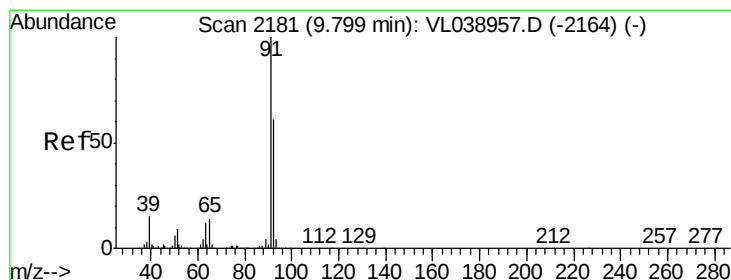
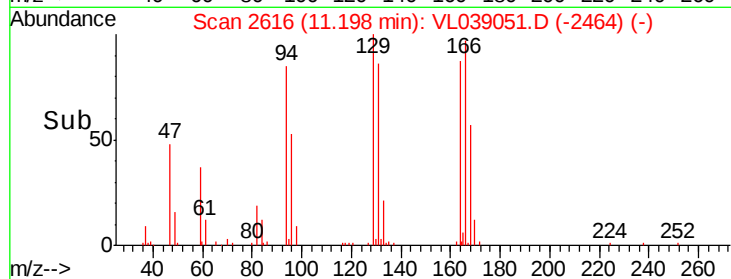
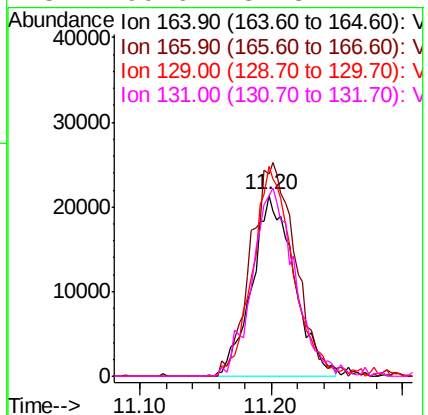
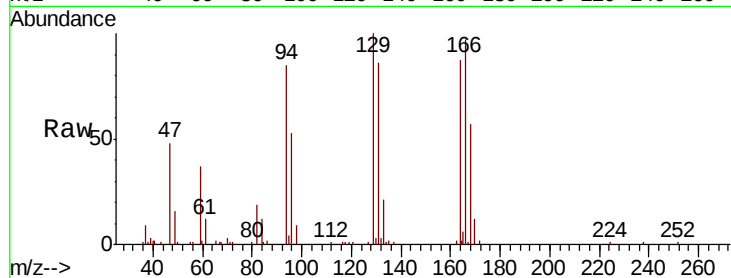
Lab File: ClientSampleId :

Acq: 14 May 2022 00:32

Tot Ion:1
Ion Rati
164 100
166 111.
129 115.
131 99.6 84.8 127.2

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Reviewed By :Semsettin Yesilyurt 05/16/2022
Supervised By :Mahesh Dadoda 05/17/2022



#53

Toluene

Concen: 1.361 ppbv

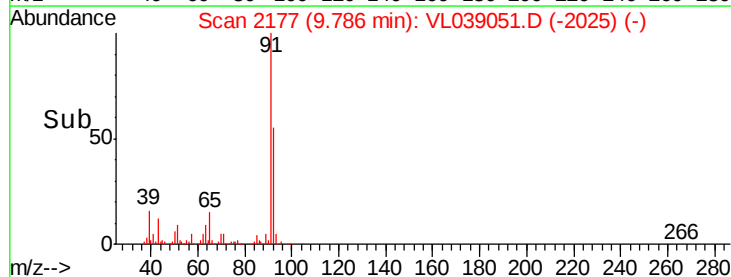
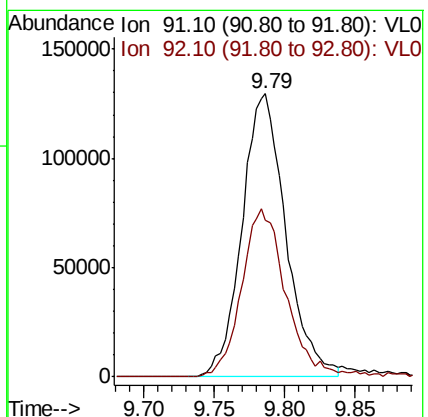
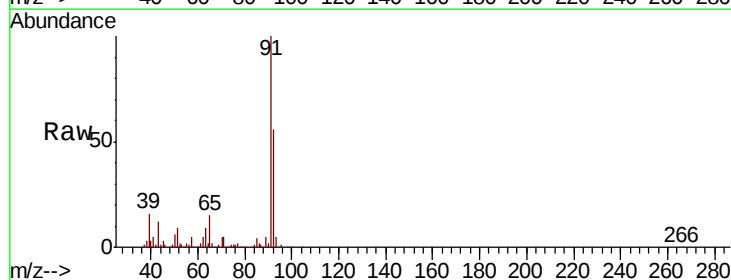
RT: 9.79 min Scan# 2177

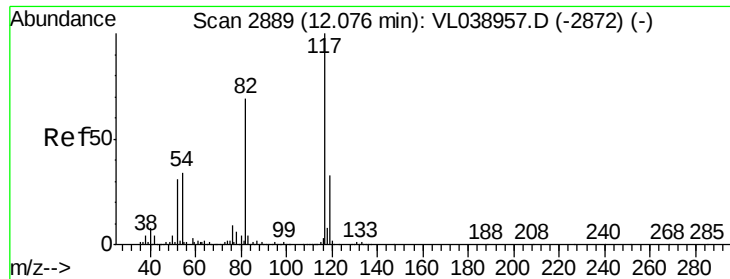
Delta R.T. -0.01 min

Lab File: VL039051.D

Acq: 14 May 2022 00:32

Tgt Ion: 91 Resp: 281294
Ion Ratio Lower Upper
91 100
92 61.9 48.2 72.2



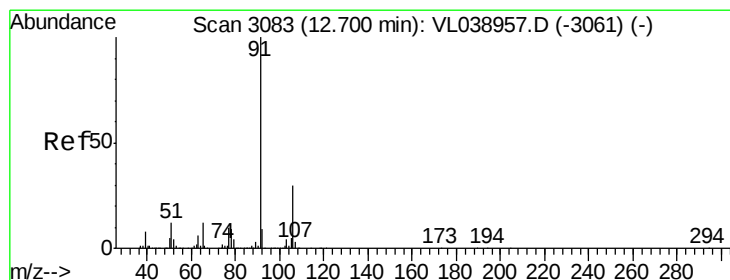
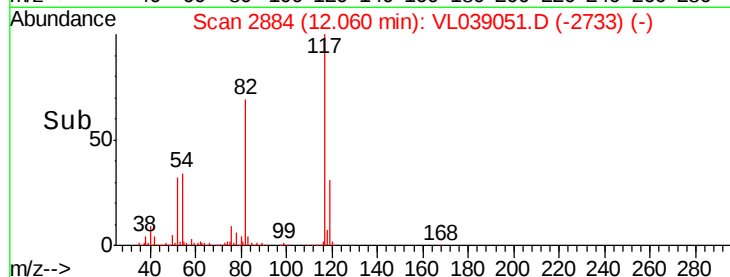
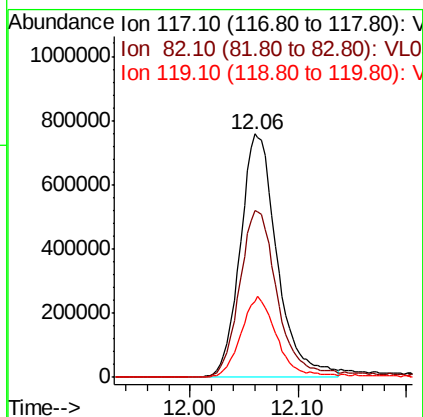
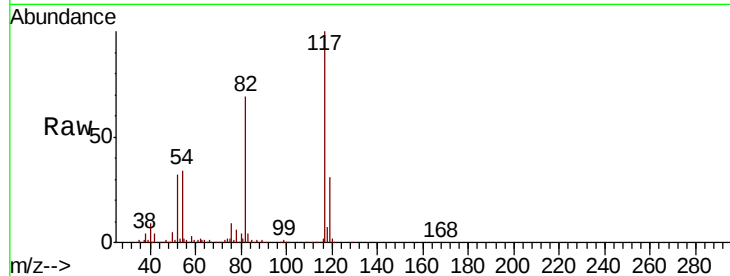


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.06
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 14 May 2022 00:32

Tot Ion:1
Ion Rati
117 100
82 74.
119 33.

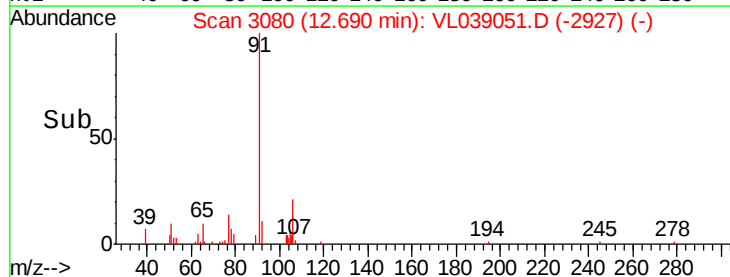
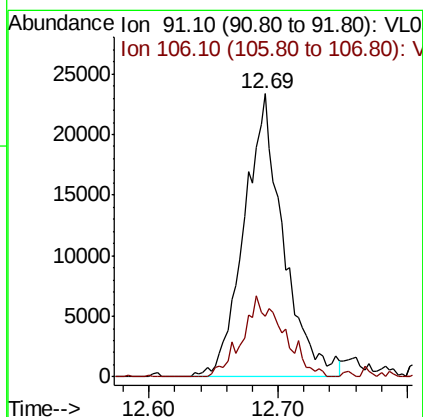
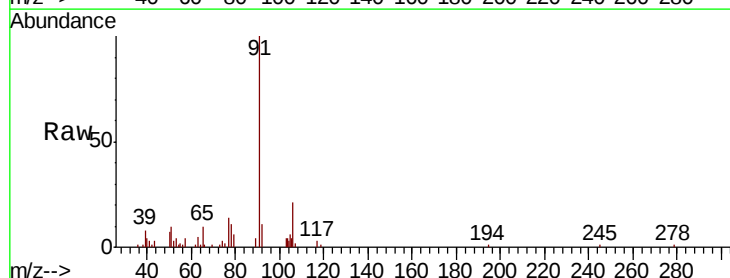
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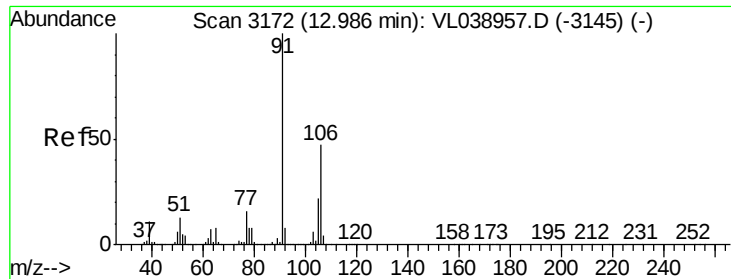
Reviewed By :Semsettin Yesilyurt 05/16/2022
Supervised By :Mahesh Dadoda 05/17/2022



#58
Ethyl Benzene
Concen: 0.190 ppbv m
RT: 12.69 min Scan# 3080
Delta R.T. -0.01 min
Lab File: VL039051.D
Acq: 14 May 2022 00:32

Tgt Ion: 91 Resp: 49255
Ion Ratio Lower Upper
91 100
106 21.4 24.2 36.4#



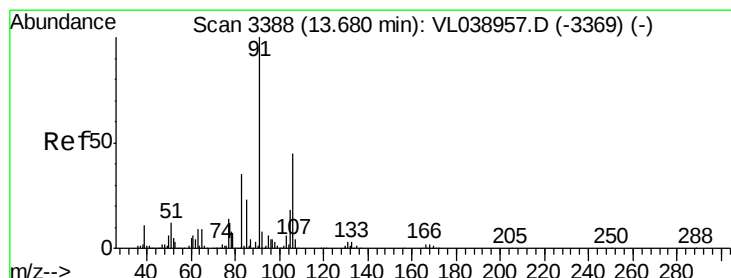
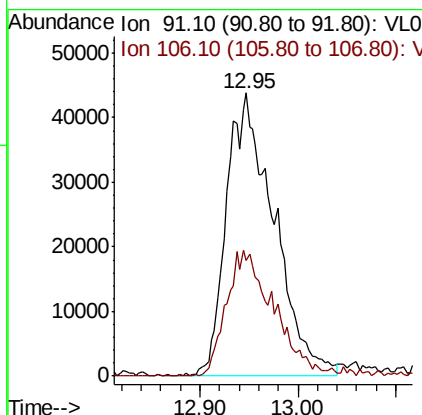
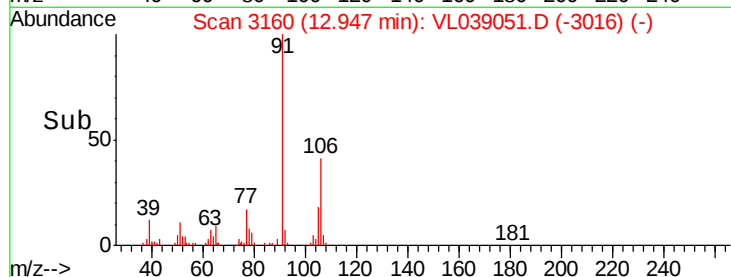
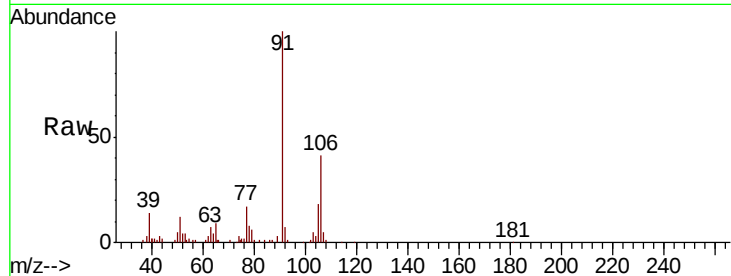


#59
m/p-Xylene
Concen: 0.664 ppbv m
RT: 12.95
Delta R.T. MSVOA_L
Lab File: ClientSampled :
Acq: 14 May 2022 00:32

Tot Ion:
Ion Ratio
91 100
106 0.

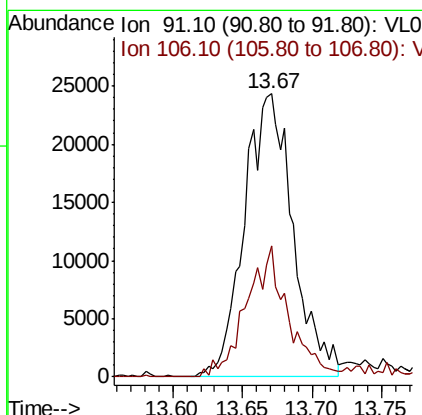
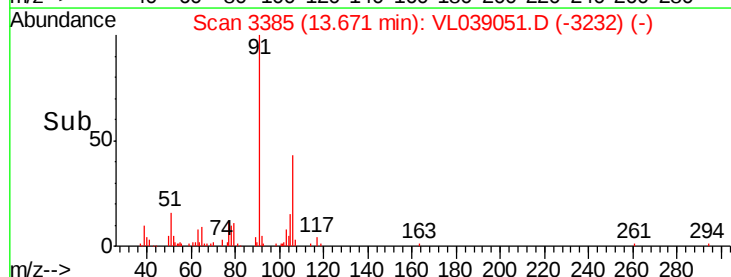
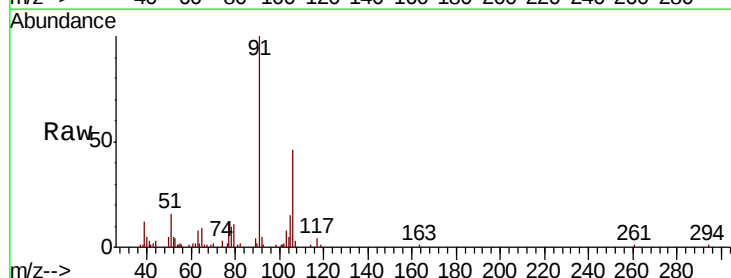
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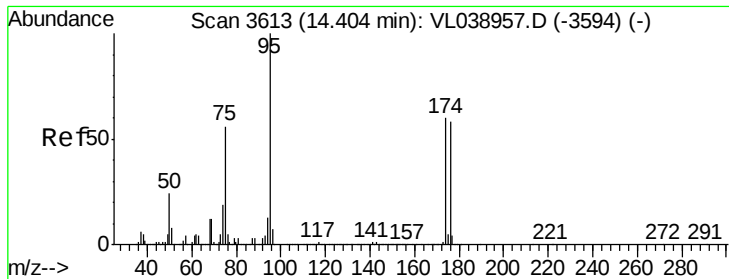
Reviewed By :Semsettin Yesilyurt 05/16/2022
Supervised By :Mahesh Dadoda 05/17/2022



#60
o-Xylene
Concen: 0.285 ppbv m
RT: 13.67 min Scan# 3385
Delta R.T. -0.01 min
Lab File: VL039051.D
Acq: 14 May 2022 00:32

Tgt Ion: 91 Resp: 59423
Ion Ratio Lower Upper
91 100
106 0.0 22.2 66.6#



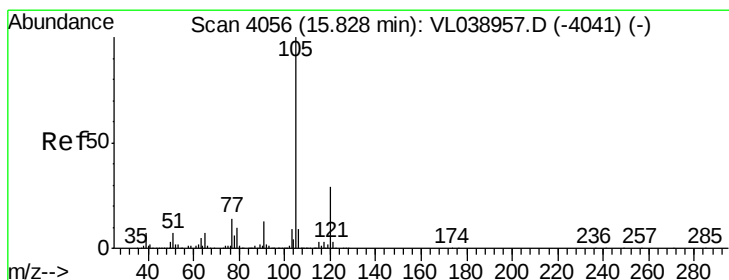
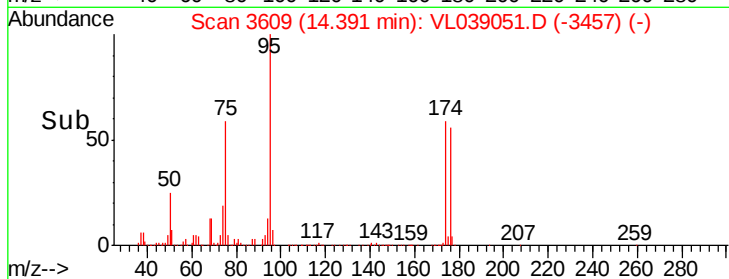
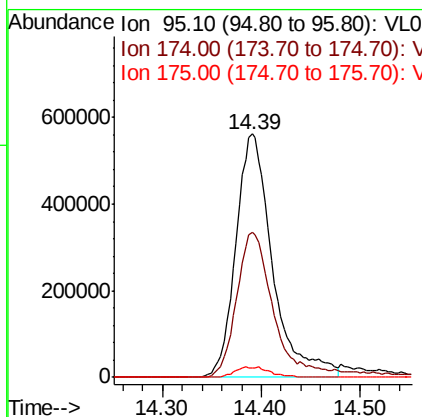
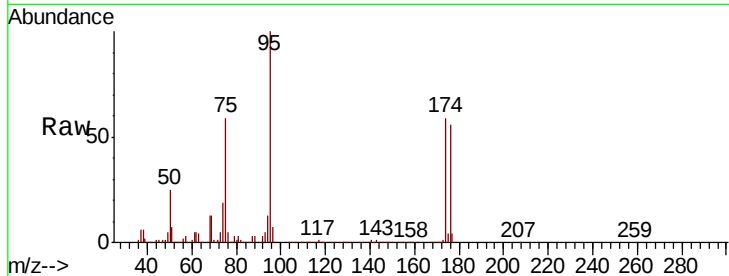


#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.157 ppbv
 RT: 14.39 min
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 14 May 2022 00:32

Tot Ion:
 Ion Ratio
 95 100
 174 63.
 175 4.

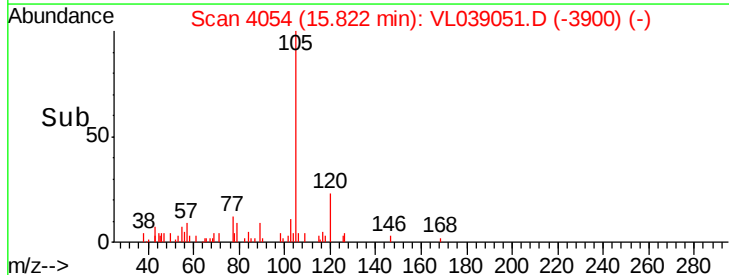
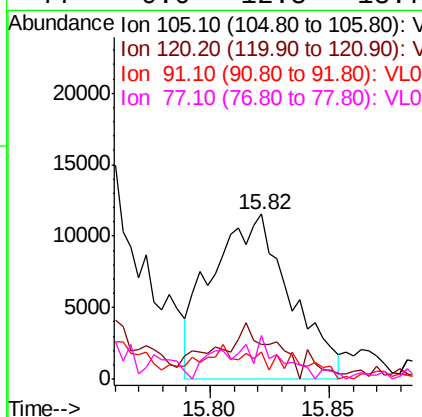
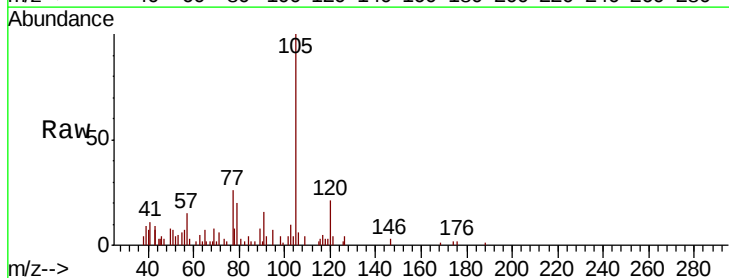
Manual Integrations
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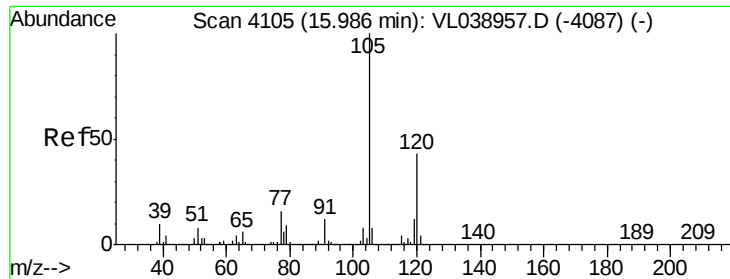
Reviewed By :Semsettin Yesilyurt 05/16/2022
 Supervised By :Mahesh Dadoda 05/17/2022



#72
 4-Ethyltoluene
 Concen: 0.111 ppbv m
 RT: 15.82 min Scan# 4054
 Delta R.T. -0.01 min
 Lab File: VL039051.D
 Acq: 14 May 2022 00:32

Tgt Ion:105 Resp: 26444
 Ion Ratio Lower Upper
 105 100
 120 31.5 23.4 35.0
 91 19.1 10.6 16.0#
 77 0.0 12.5 18.7#



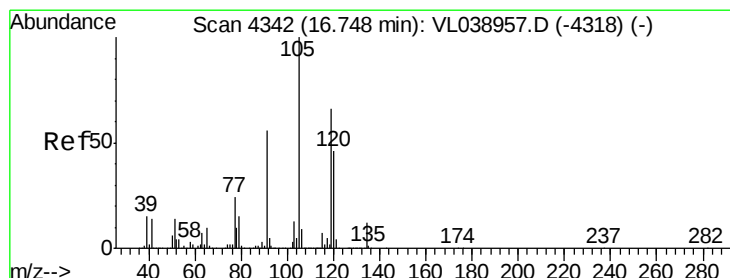
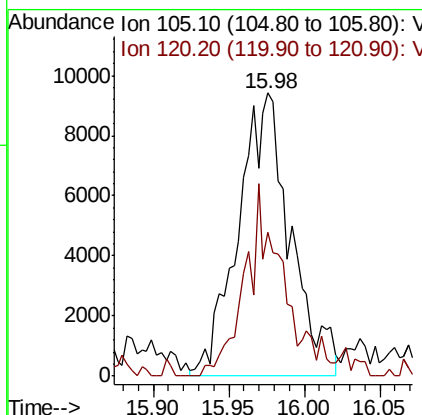
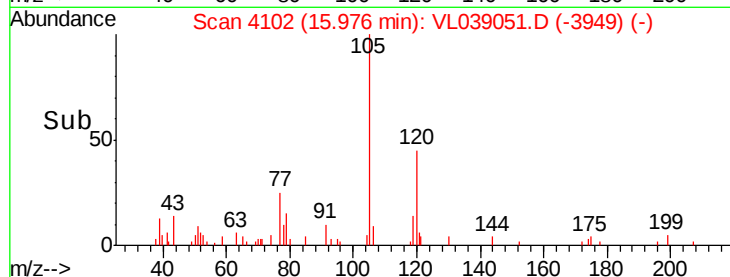
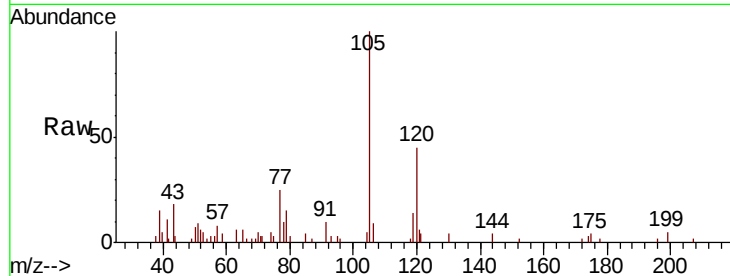


#73
 1,3,5-Trimethylbenzene
 Concen: 0.106 ppbv m
 RT: 15.98 min
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 14 May 2022 00:32

Tot Ion:1
 Ion Rati
 105 100
 120 44.

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 05/16/2022
 Supervised By :Mahesh Dadoda 05/17/2022



#74
 1,2,4-Trimethylbenzene
 Concen: 0.407 ppbv m
 RT: 16.73 min Scan# 4338
 Delta R.T. -0.01 min
 Lab File: VL039051.D
 Acq: 14 May 2022 00:32

Tgt Ion:105 Resp: 95392
 Ion Ratio Lower Upper
 105 100
 120 40.1 36.9 55.3
 91 10.1 45.0 67.4#
 77 18.9 19.2 28.8#

