

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL101221\
 Data File : VL037831.D
 Acq On : 12 Oct 2021 15:56
 Operator : SY/AP
 Sample : M4079-04
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA L
 ClientSampleId :
 C0P47

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 10/14/2021
 Supervised By :Mahesh Dadoda 10/15/2021

Quant Time: Oct 14 01:34:32 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL100421A
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:
 QLast Update : Mon Oct 04 17:43:54 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1265309	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	3732311	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.08	117	3255836	10.00	ppbv	-0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.40	95	2285325	10.04	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.40%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.05	85	34453m	0.170	ppbv	
3) Chlorodifluoromethane	2.99	51	39367	0.162	ppbv	98
9) Propene	3.01	41	50559	0.565	ppbv	91
11) Trichlorofluoromethane	3.95	101	40869m	0.227	ppbv	
13) Ethanol	3.61	45	97224	13.290	ppbv	99
15) Acetone	3.84	43	1152218	10.144	ppbv #	88
17) tert-Butyl alcohol	4.30	59	71903m	0.615	ppbv	
19) Isopropyl Alcohol	3.98	45	32079m	0.454	ppbv	
20) Methylene Chloride	4.34	84	216893	3.779	ppbv	93
26) Hexane	5.68	57	163977	1.045	ppbv #	45
27) Carbon Disulfide	4.55	76	29397m	0.211	ppbv	
29) Chloroform	5.74	83	276848	1.234	ppbv	97
34) 2-Butanone	5.25	43	240367	1.595	ppbv	94
36) Benzene	6.89	78	39834m	0.125	ppbv	
52) Tetrachloroethene	11.21	164	2357602	19.009	ppbv	98
53) Toluene	9.80	91	60558	0.171	ppbv	99
58) Ethyl Benzene	12.71	91	253519	0.580	ppbv	92
59) m/p-Xylene	12.96	91	953211	2.540	ppbv	94
60) o-Xylene	13.68	91	315743	0.878	ppbv	98
74) 1,2,4-Trimethylbenzene	16.75	105	86998m	0.223	ppbv	
79) Naphthalene	22.18	128	56969m	0.239	ppbv	

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

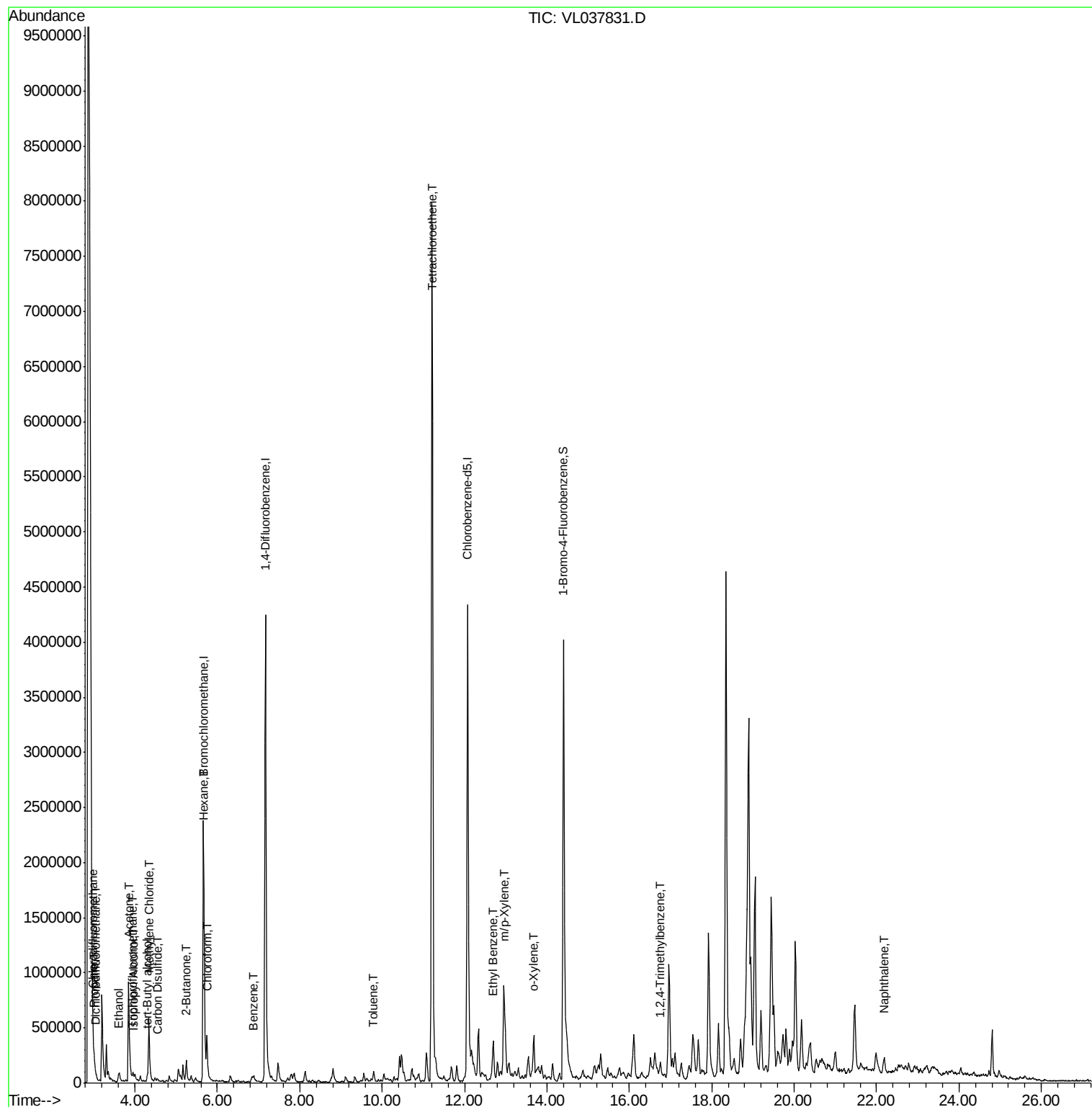
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL101221\
Data File : VL037831.D
Acq On : 12 Oct 2021 15:56
Operator : SY/AP
Sample : M4079-04
Misc : 400mL/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

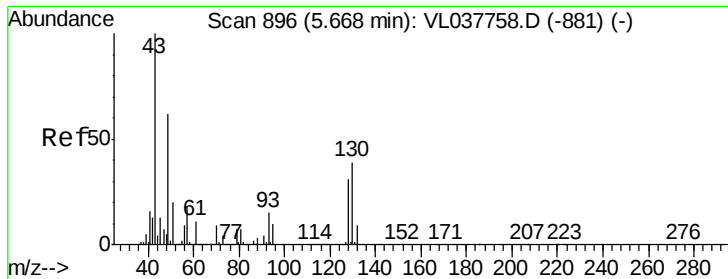
Instrument :
MSVOA_L
ClientSampleId :
C0P47

Manual Integrations
APPROVED

Quant Time: Oct 14 01:34:32 2021
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL100421
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:
QLast Update : Mon Oct 04 17:43:54 2021
Response via : Initial Calibration

Reviewed By :Semsettin Yesilyurt 10/14/2021
Supervised By :Mahesh Dadoda 10/15/2021





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 Instrument: MSVOA_L

Delta R.T. ClientSampleId:

Lab File: COP47

Acq: 12 Oct 2021 15:56

Tot Ion:

Ion Ratio

49 100

128 54.

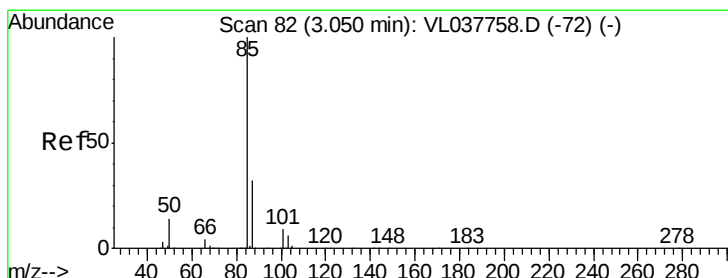
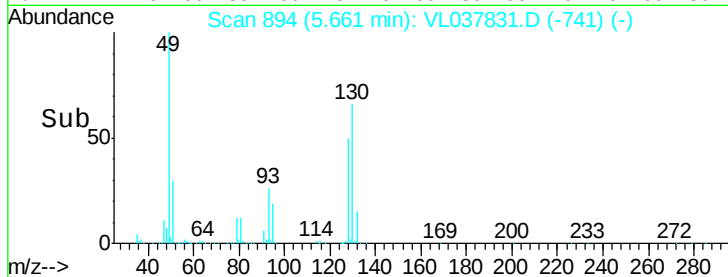
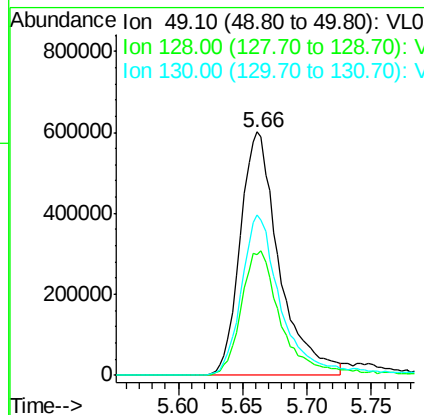
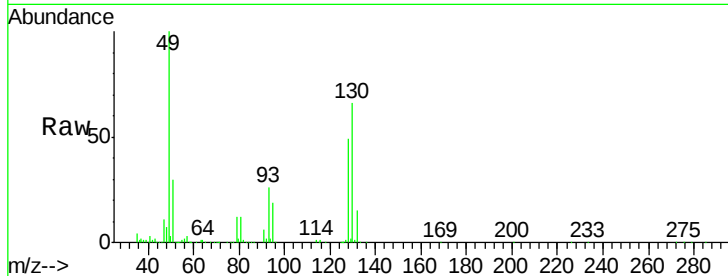
130 68.

Manual Integrations

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Supervised By :Mahesh Dadoda 10/15/2021



#2

Dichlorodifluoromethane

Concen: 0.170 ppbv m

RT: 3.05 min Scan# 81

Delta R.T. -0.00 min

Lab File: VL037831.D

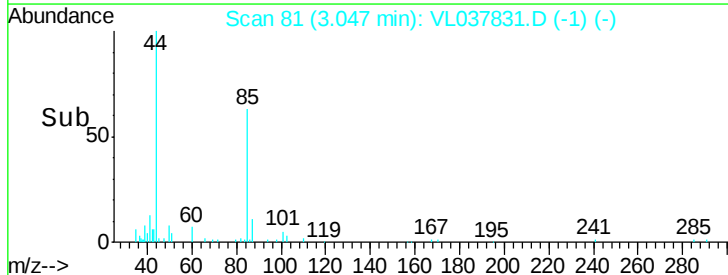
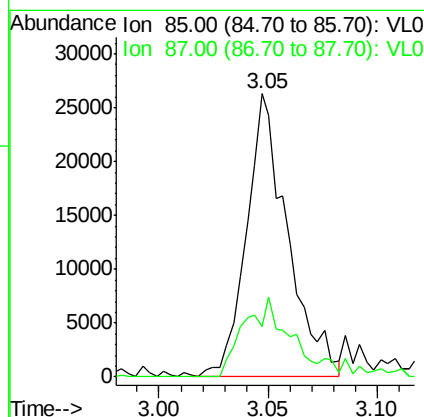
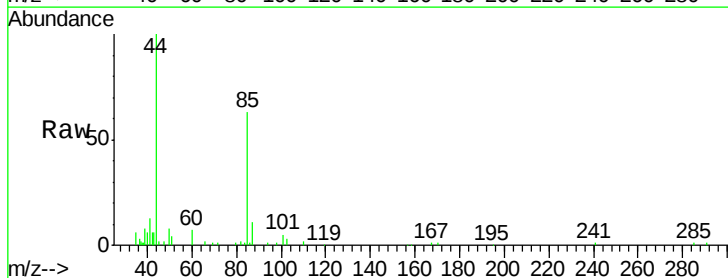
Acq: 12 Oct 2021 15:56

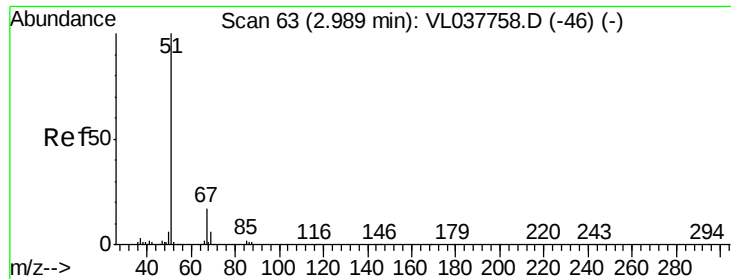
Tgt Ion: 85 Resp: 34453

Ion Ratio Lower Upper

85 100

87 17.8 25.7 38.5#





#3

Chlorodifluoromethane

Concen: 0.162 ppbv

RT: 2.99 Instrument :

Delta R.T. MSVOA.L

Lab File: ClientSampleId :

Acq: 12 Oct 2021 15:56

Tot Ion:

Ion Ratio

51 100

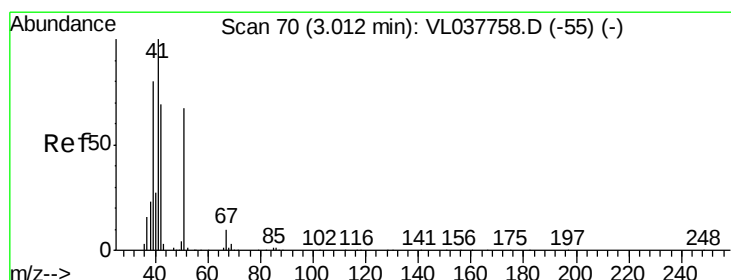
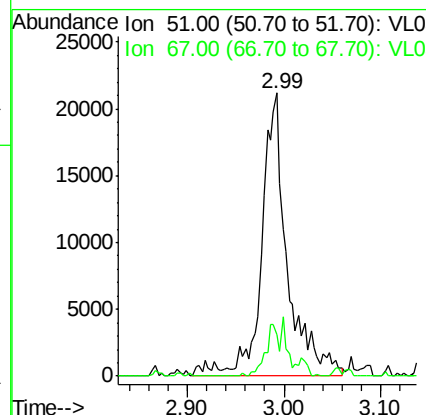
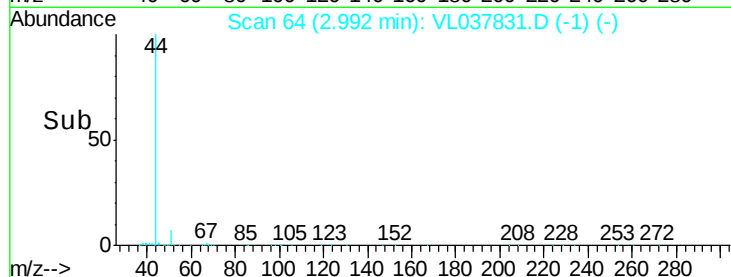
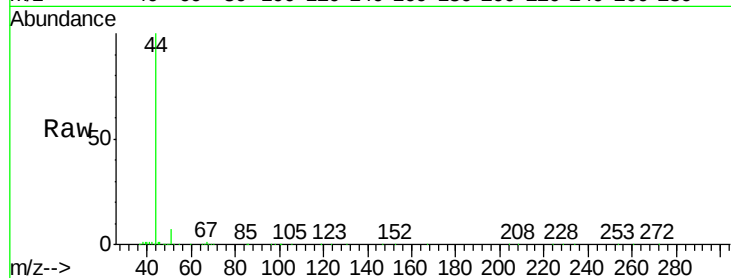
67 16.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 10/14/2021

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#9

Propene

Concen: 0.565 ppbv

RT: 3.01 min Scan# 70

Delta R.T. -0.00 min

Lab File: VL037831.D

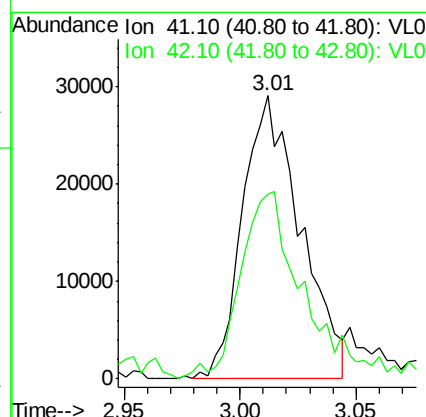
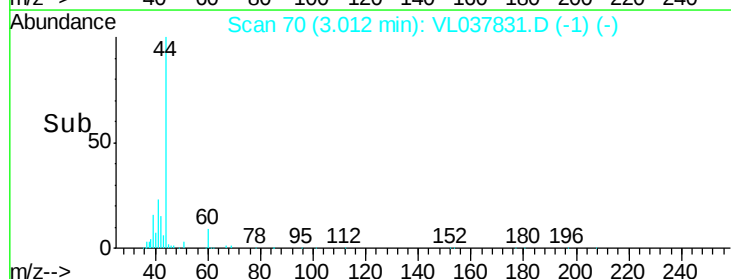
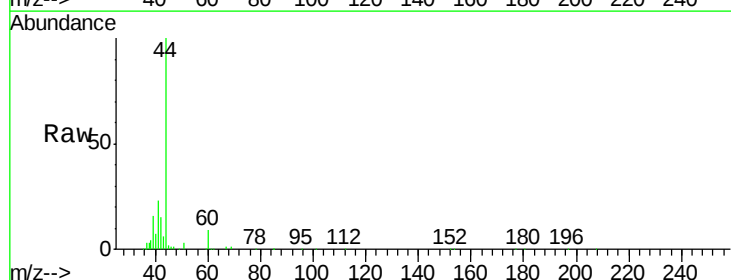
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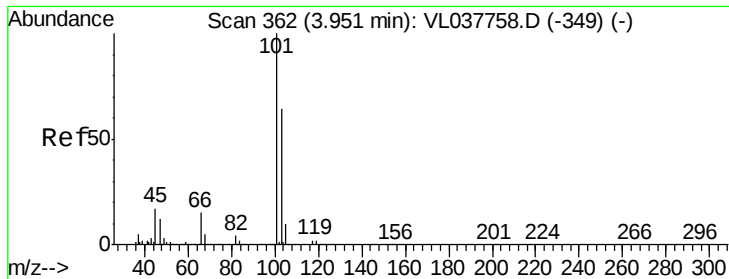
Tgt Ion: 41 Resp: 50559

Ion Ratio Lower Upper

41 100

42 74.8 54.2 81.2



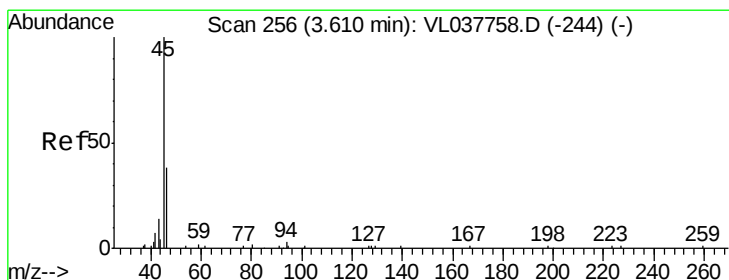
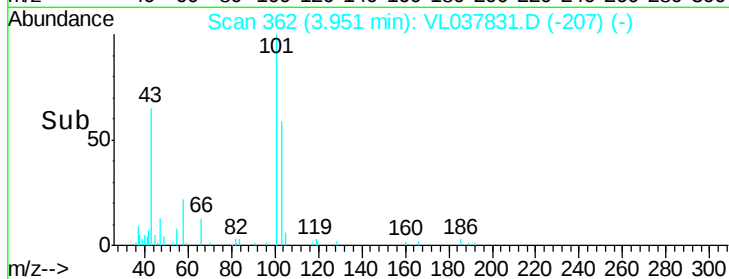
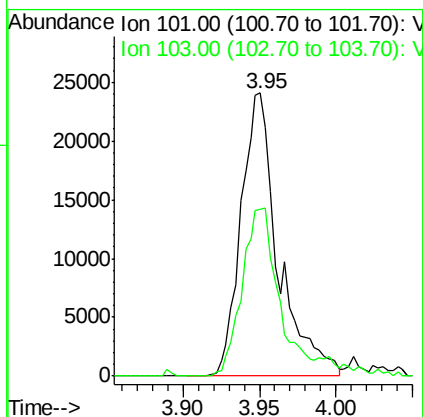
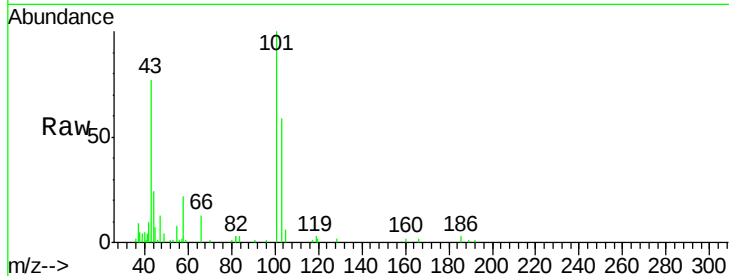


#11
 Trichlorofluoromethane
 Concen: 0.227 ppbv m
 RT: 3.95
 Instrument: MSVOA_L
 Delta R.T.:
 Lab File: ClientSampleId :
 Acq: 12 Oct 2021 15:56

Tot Ion:1
 Ion Rati
 101 100
 103 59.

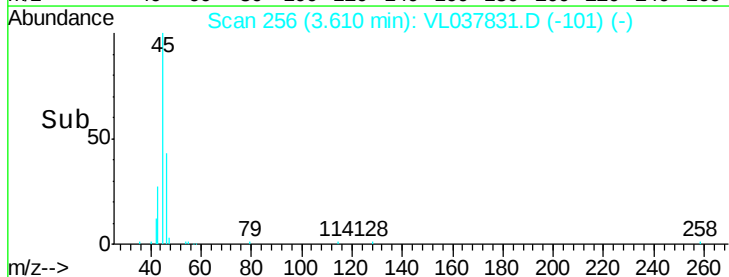
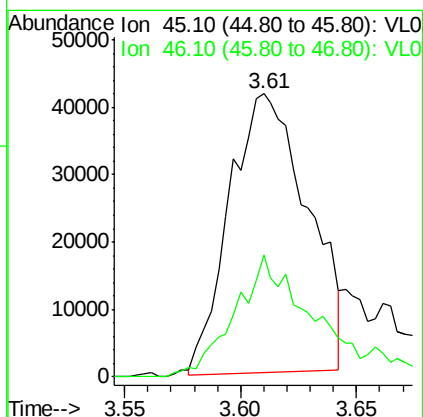
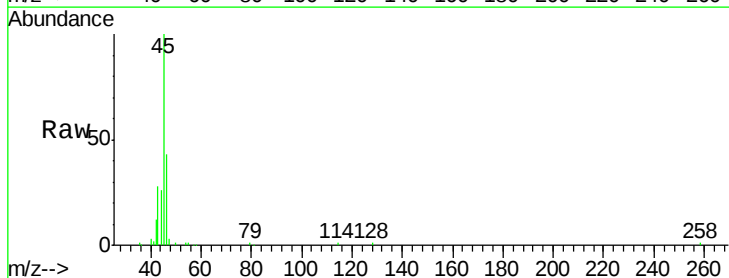
Manual Integrations
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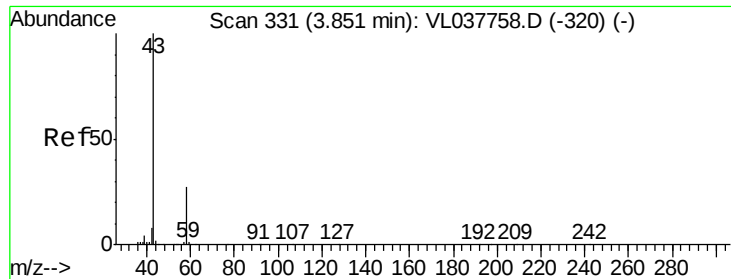
Reviewed By :Semsettin Yesilyurt 10/14/2021
 Supervised By :Mahesh Dadoda 10/15/2021



#13
 Ethanol
 Concen: 13.290 ppbv
 RT: 3.61 min Scan# 256
 Delta R.T. -0.00 min
 Lab File: VL037831.D
 Acq: 12 Oct 2021 15:56

Tgt Ion: 45 Resp: 97224
 Ion Ratio Lower Upper
 45 100
 46 49.8 20.2 81.0





#15

Acetone

Concen: 10.144 ppbv

RT: 3.84

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 12 Oct 2021 15:56

Tot Ion:

Ion Ratio

43 100

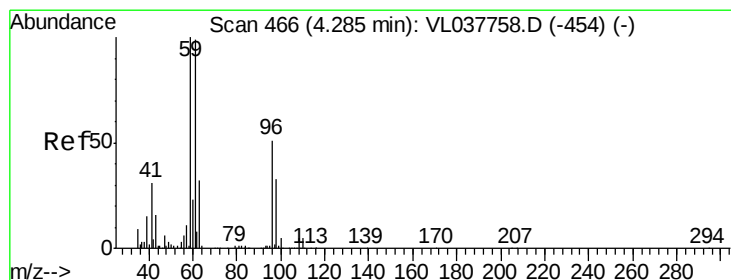
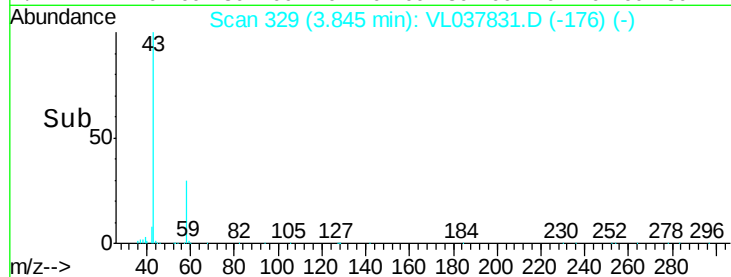
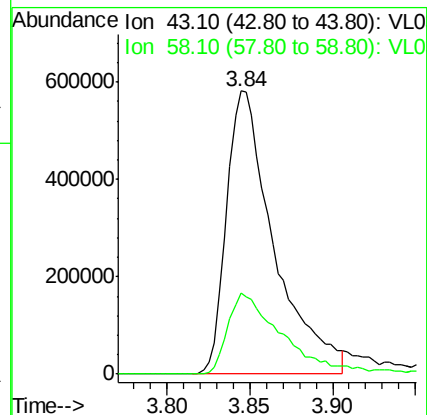
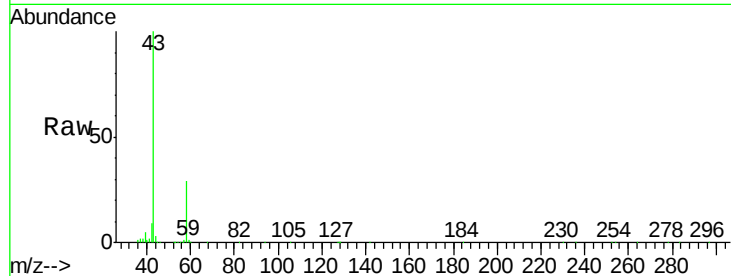
58 34.

Manual Integrations

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Supervised By :Mahesh Dadoda 10/15/2021



#17

tert-Butyl alcohol

Concen: 0.615 ppbv m

RT: 4.30 min Scan# 470

Delta R.T. 0.01 min

Lab File: VL037831.D

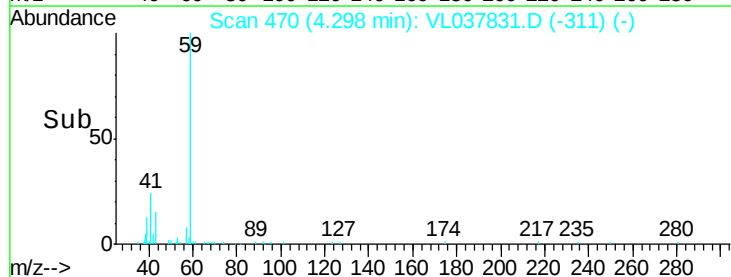
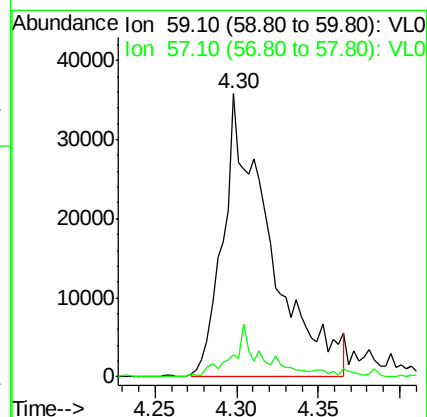
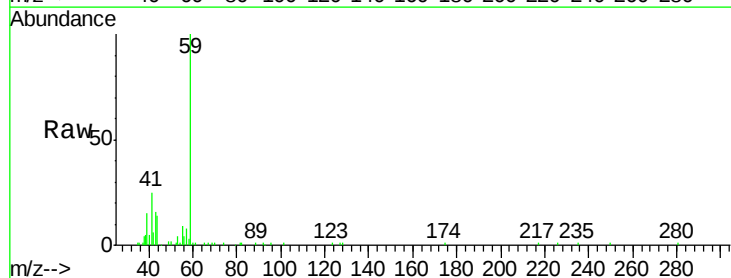
Acq: 12 Oct 2021 15:56

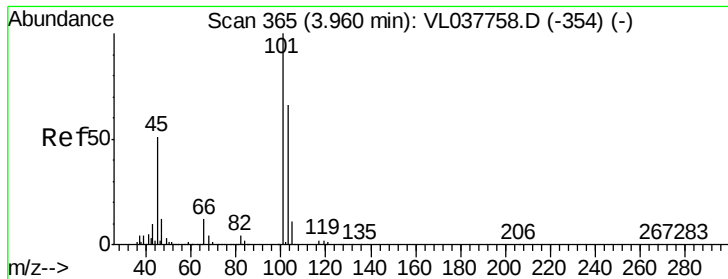
Tgt Ion: 59 Resp: 71903

Ion Ratio Lower Upper

59 100

57 0.0 8.6 13.0#





#19

Isopropyl Alcohol

Concen: 0.454 ppbv m

RT: 3.98 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 12 Oct 2021 15:56

Tot Ion:

Ion Ratio

45 100

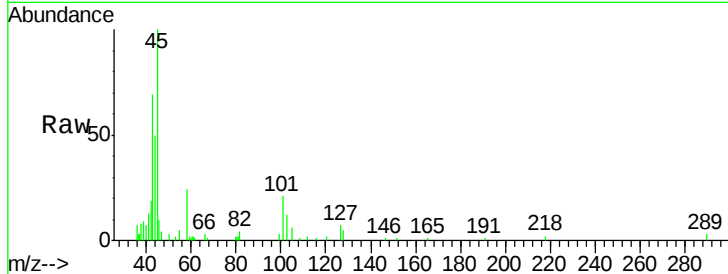
58 0.

Manual Integrations

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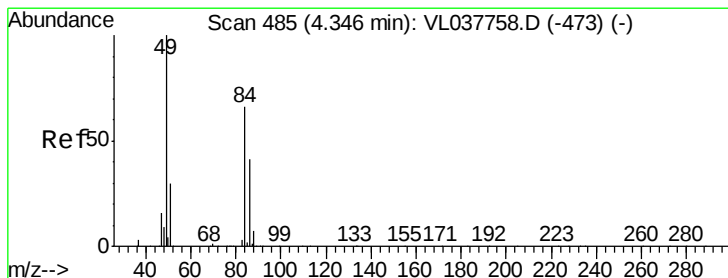
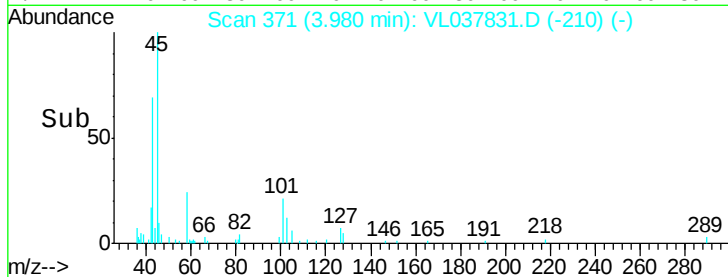
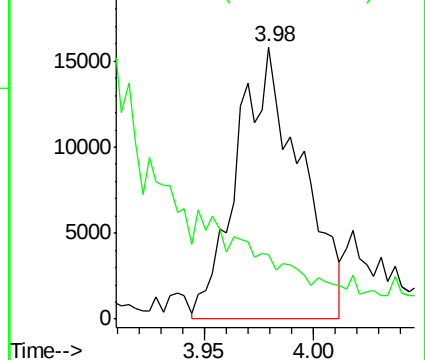
Reviewed By :Semsettin Yesilyurt 10/14/2021

Supervised By :Mahesh Dadoda 10/15/2021



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#20

Methylene Chloride

Concen: 3.779 ppbv

RT: 4.34 min Scan# 483

Delta R.T. -0.01 min

Lab File: VL037831.D

Acq: 12 Oct 2021 15:56

Tgt Ion: 84 Resp: 216893

Ion Ratio Lower Upper

84 100

49 138.5 120.7 181.1

51 43.2 36.2 54.4

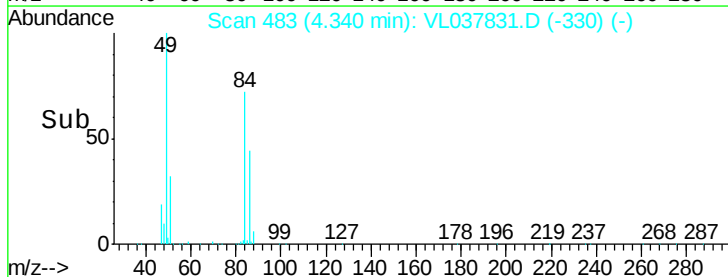
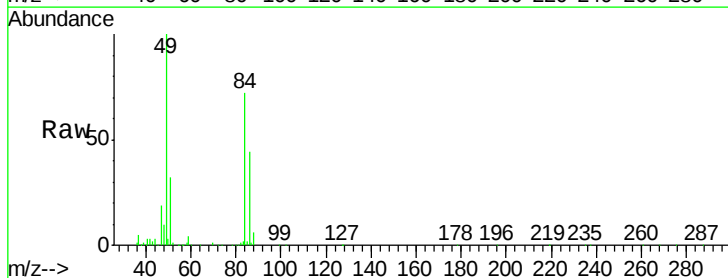
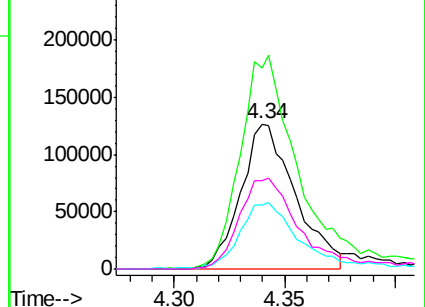
86 60.5 49.6 74.4

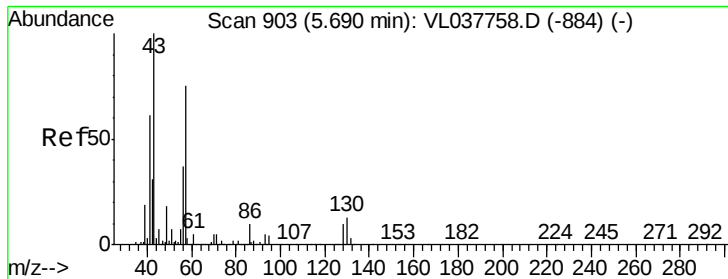
Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0





#26

Hexane

Concen: 1.045 ppbv

RT: 5.68 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 12 Oct 2021 15:56 C0P47

Tot Ion:

Ion Ratio

57 100

41 95.

43 79.

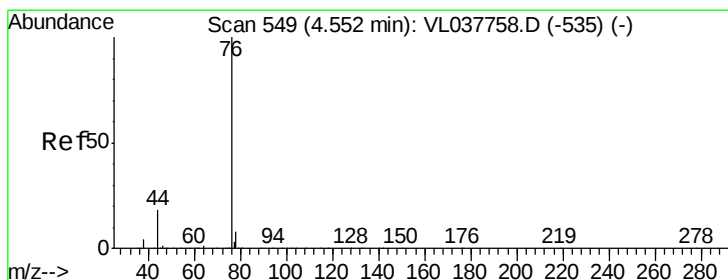
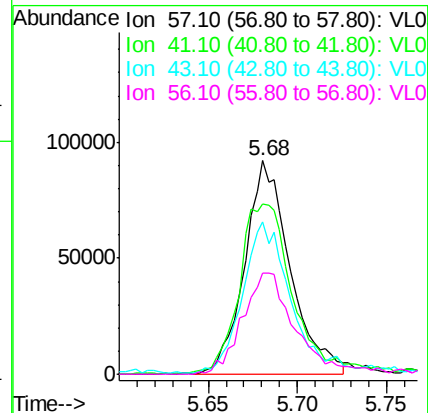
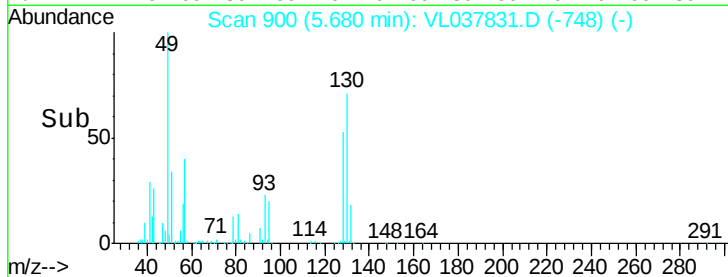
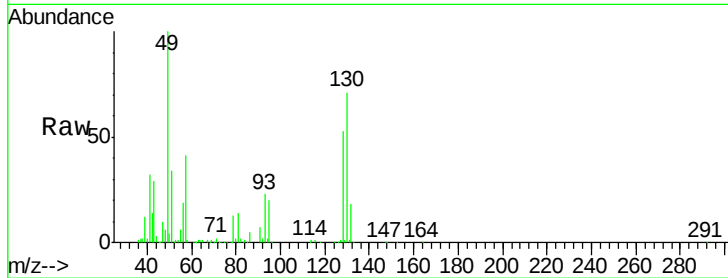
56 56.4 42.0 63.0

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 10/14/2021

Supervised By :Mahesh Dadoda 10/15/2021



#27

Carbon Disulfide

Concen: 0.211 ppbv m

RT: 4.55 min Scan# 548

Delta R.T. -0.00 min

Lab File: VL037831.D

Acq: 12 Oct 2021 15:56

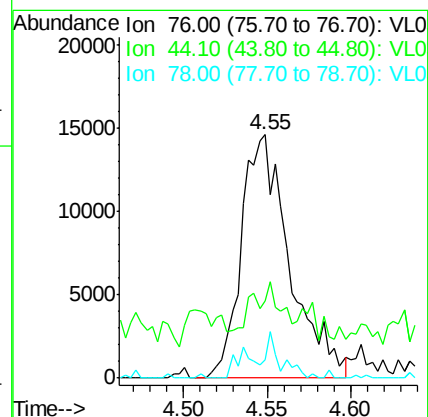
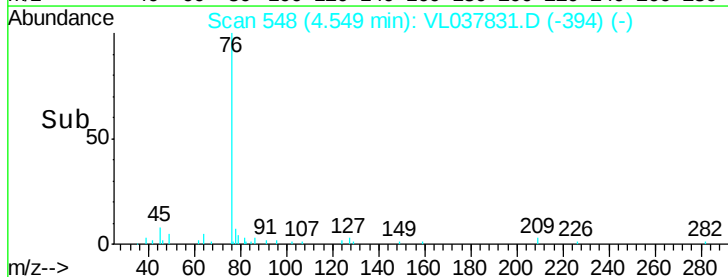
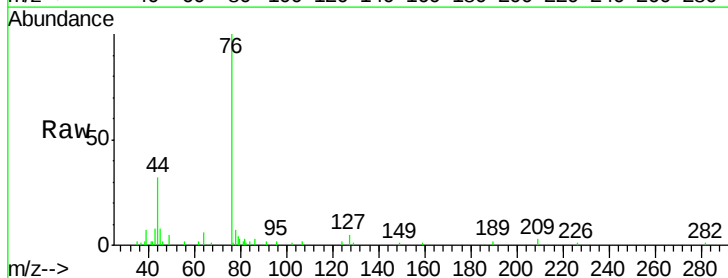
Tgt Ion: 76 Resp: 29397

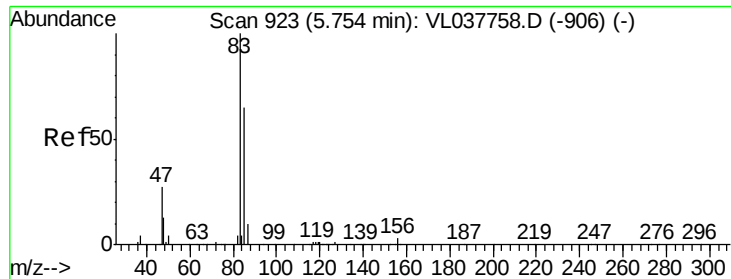
Ion Ratio Lower Upper

76 100

44 0.0 14.3 21.5#

78 0.0 7.8 11.6#



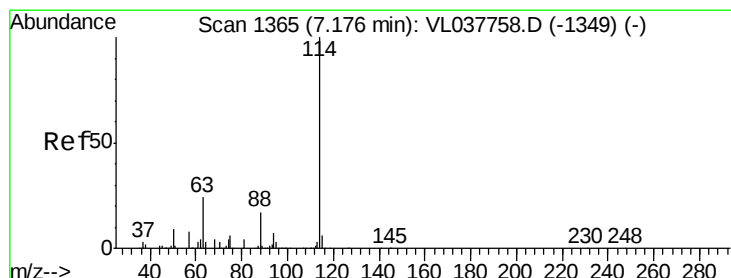
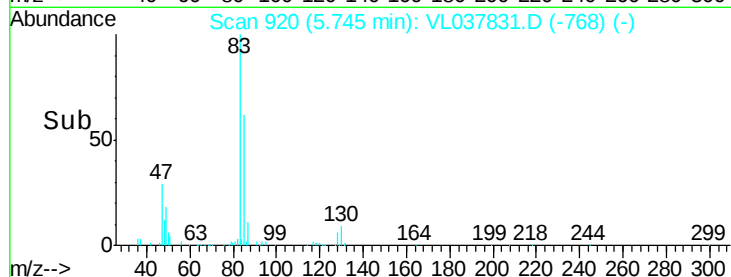
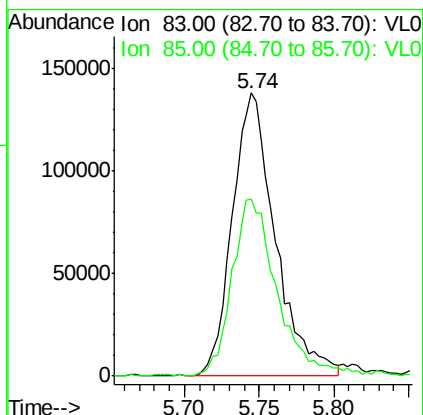
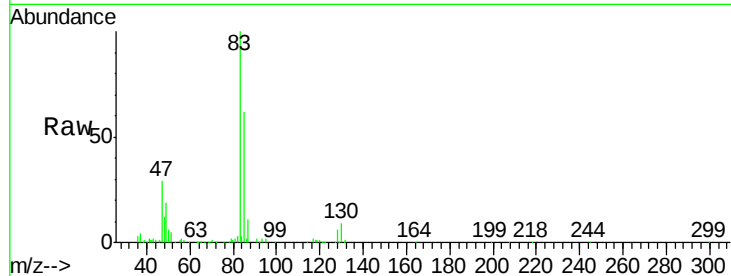


#29
Chloroform
Concen: 1.234 ppbv
RT: 5.74
Instrument: MSVOA_L
Delta R.T.:
Lab File: ClientSampleId :
Acq: 12 Oct 2021 15:56

Tot Ion:
Ion Ratio
83 100
85 62.

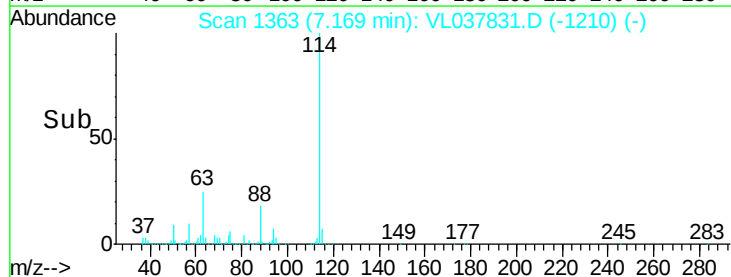
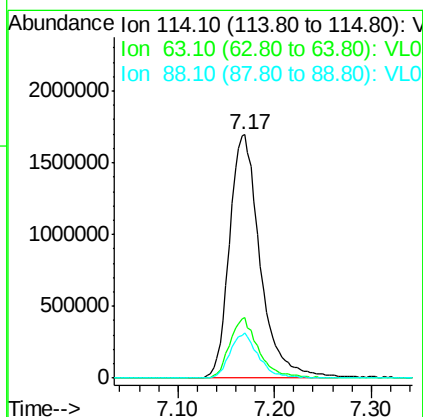
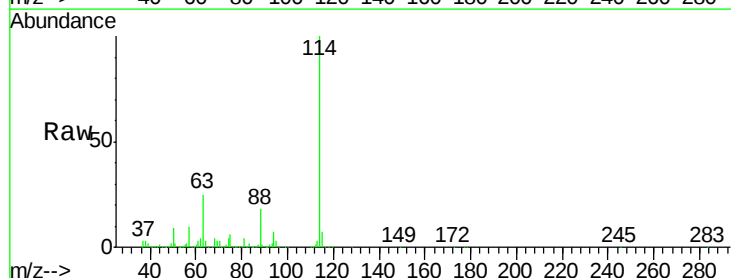
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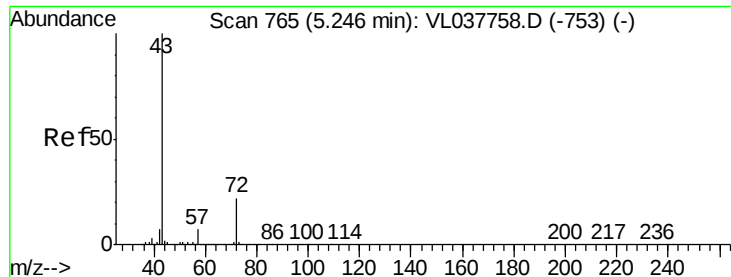
Reviewed By :Semsettin Yesilyurt 10/14/2021
Supervised By :Mahesh Dadoda 10/15/2021



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.17 min Scan# 1363
Delta R.T. -0.01 min
Lab File: VL037831.D
Acq: 12 Oct 2021 15:56

Tgt Ion:114 Resp: 3732311
Ion Ratio Lower Upper
114 100
63 23.6 19.4 29.2
88 17.5 14.4 21.6



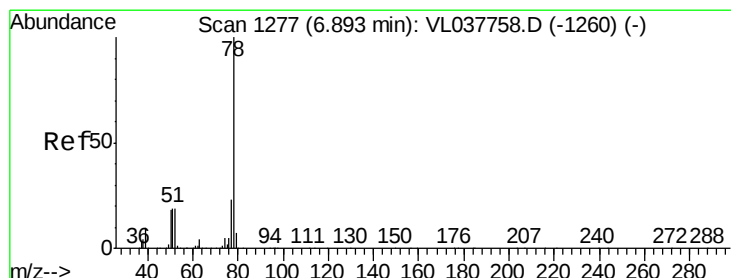
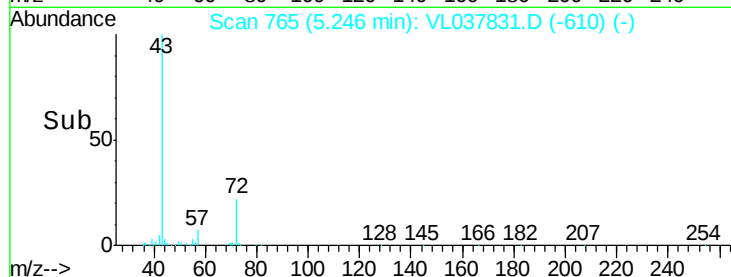
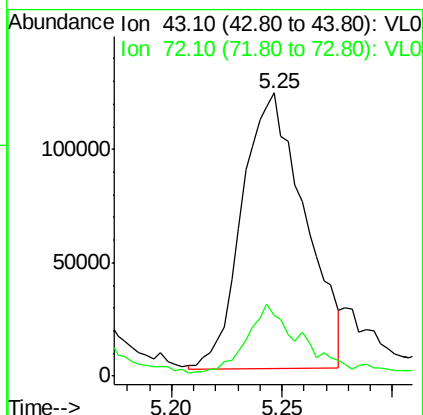
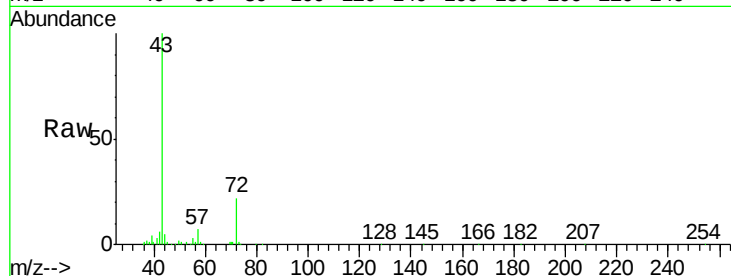


#34
2-Butanone
Concen: 1.595 ppbv
RT: 5.25
Delta R.T.: MSVOA_L
Lab File: ClientSampleId :
Acq: 12 Oct 2021 15:56

Tot Ion:
Ion Ratio
43 100
72 25.

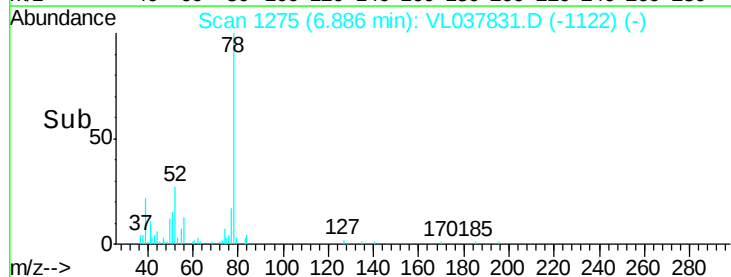
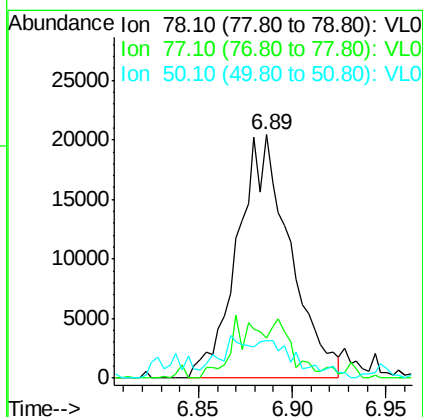
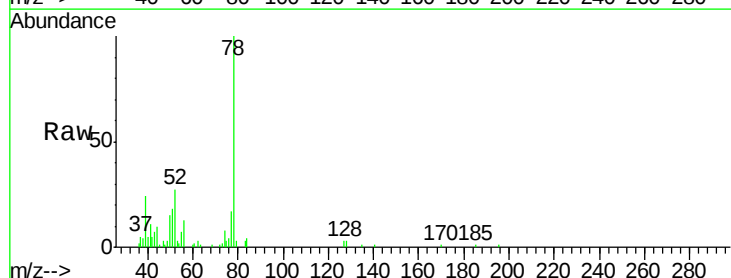
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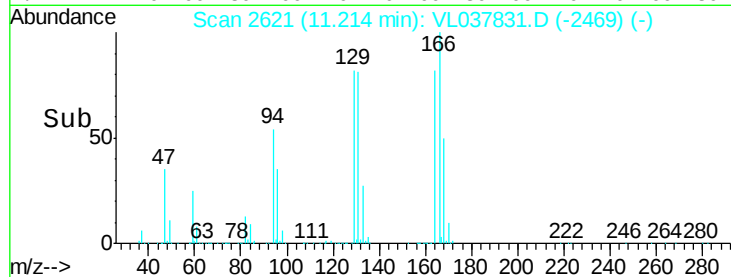
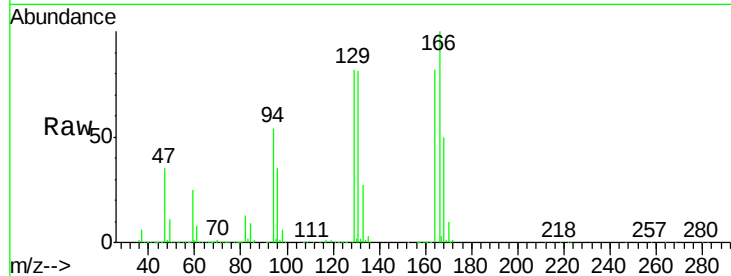
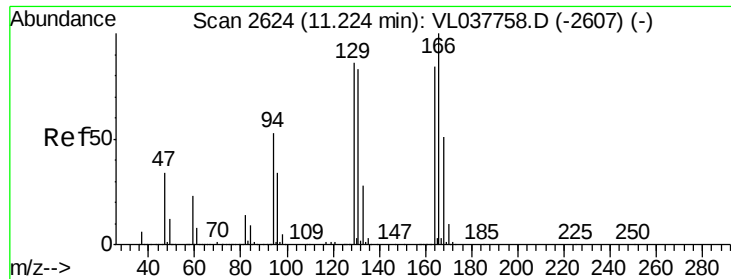
Reviewed By :Semsettin Yesilyurt 10/14/2021
Supervised By :Mahesh Dadoda 10/15/2021



#36
Benzene
Concen: 0.125 ppbv m
RT: 6.89 min Scan# 1275
Delta R.T.: -0.01 min
Lab File: VL037831.D
Acq: 12 Oct 2021 15:56

Tgt Ion: 78 Resp: 39834
Ion Ratio Lower Upper
78 100
77 16.7 18.8 28.2#
50 15.4 14.7 22.1



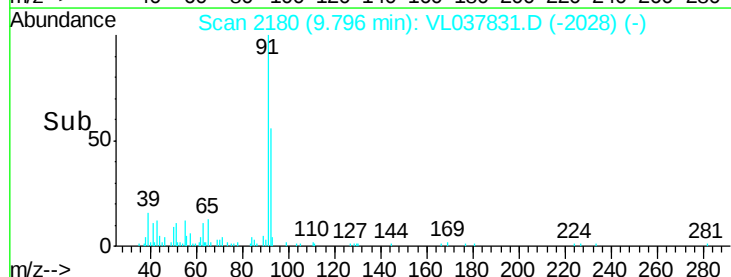
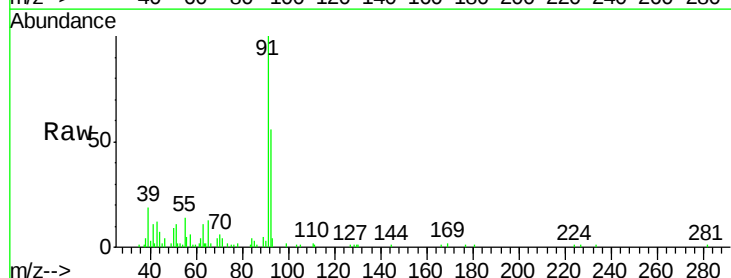
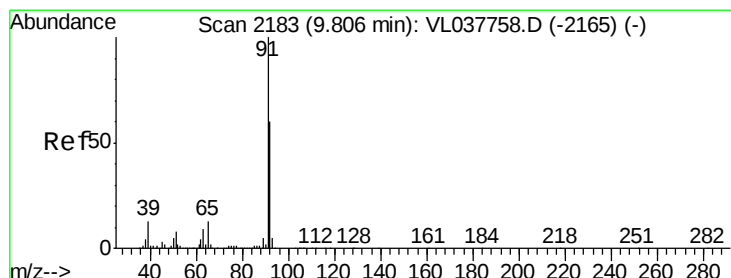
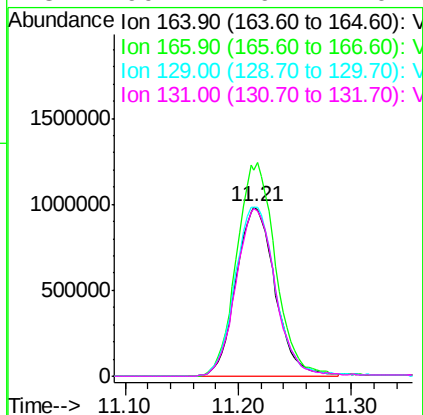


#52
Tetrachloroethene
Concen: 19.009 ppbv
RT: 11.21
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 12 Oct 2021 15:56

Tot Ion: 1
Ion Ratio
164 100
166 122.
129 99.
131 99.1 79.4 119.2

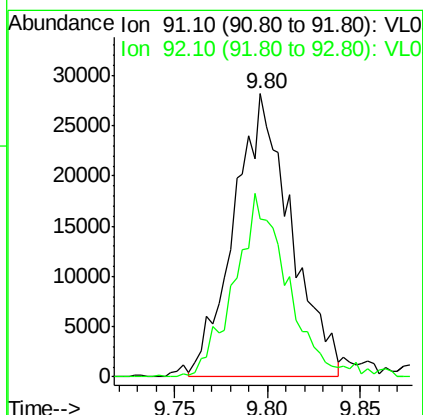
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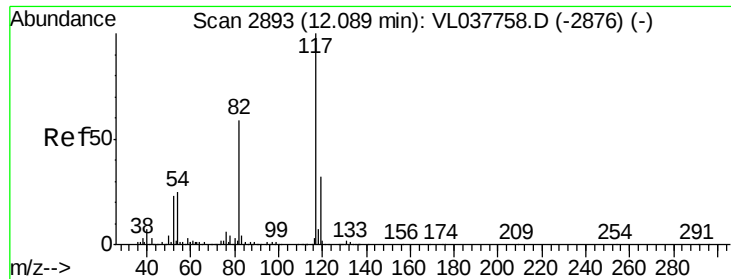
Reviewed By :Semsettin Yesilyurt 10/14/2021
Supervised By :Mahesh Dadoda 10/15/2021



#53
Toluene
Concen: 0.171 ppbv
RT: 9.80 min Scan# 2180
Delta R.T. -0.01 min
Lab File: VL037831.D
Acq: 12 Oct 2021 15:56

Tgt Ion: 91 Resp: 60558
Ion Ratio Lower Upper
91 100
92 61.4 48.4 72.6





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.08

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 12 Oct 2021 15:56

Tot Ion:1

Ion Rati

117 100

82 65.

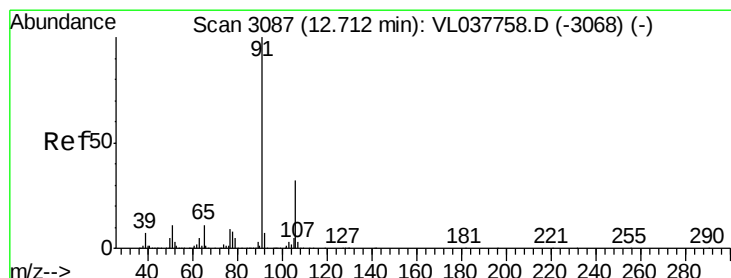
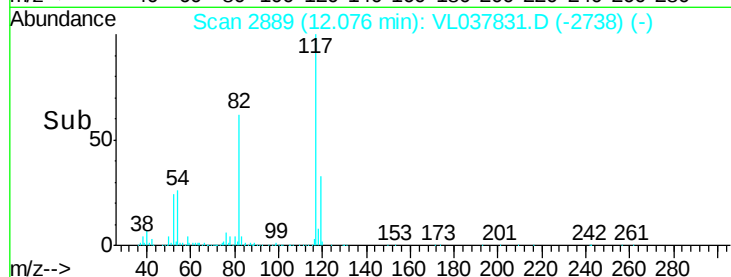
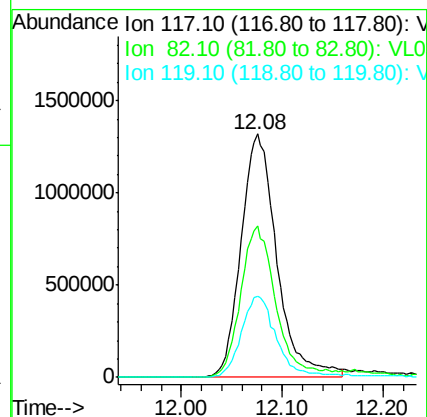
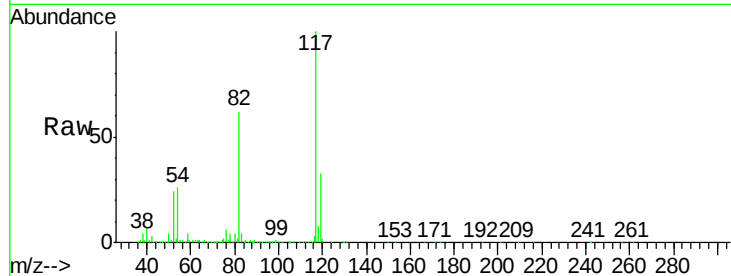
119 34.

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APPROVED

Reviewed By :Semsettin Yesilyurt 10/14/2021

Supervised By :Mahesh Dadoda 10/15/2021



#58

Ethyl Benzene

Concen: 0.580 ppbv

RT: 12.71 min Scan# 3085

Delta R.T. -0.01 min

Lab File: VL037831.D

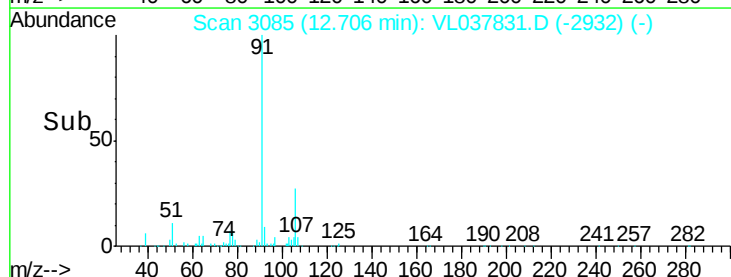
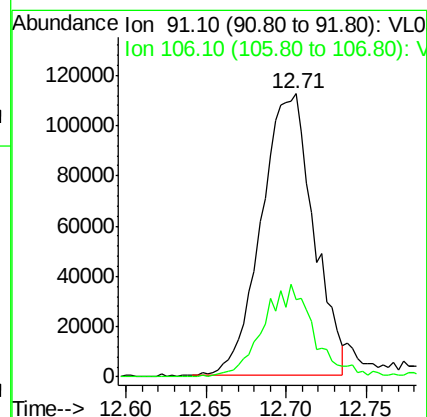
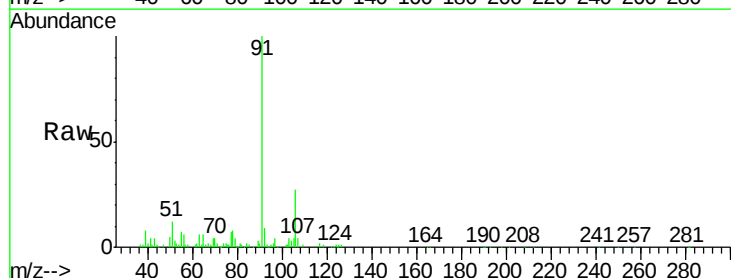
Acq: 12 Oct 2021 15:56

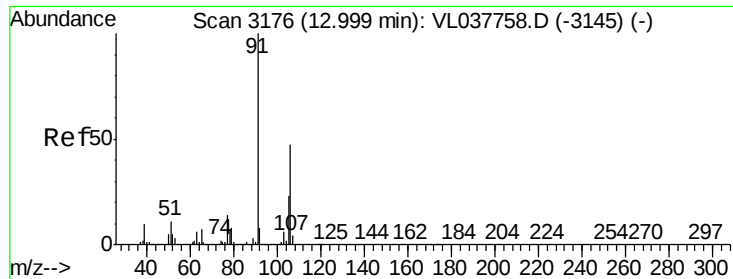
Tgt Ion: 91 Resp: 253519

Ion Ratio Lower Upper

91 100

106 27.1 25.3 37.9



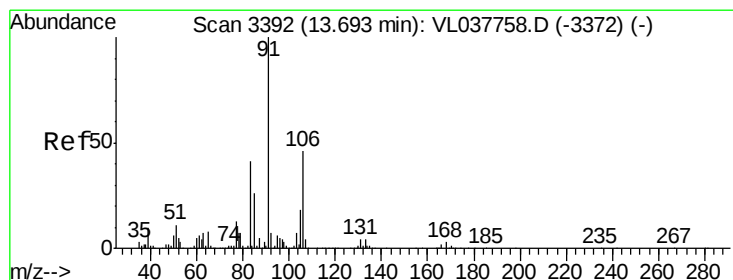
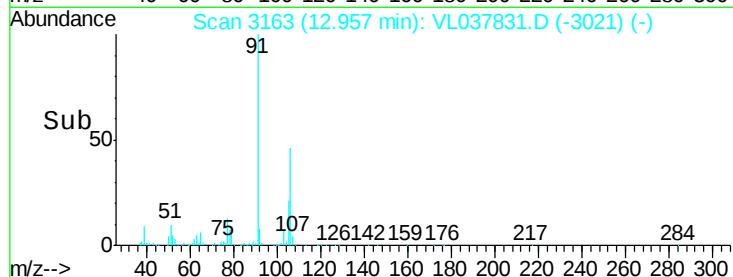
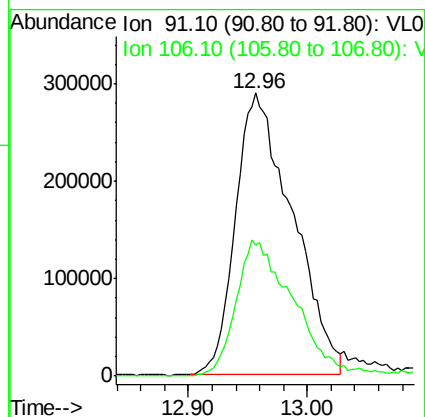
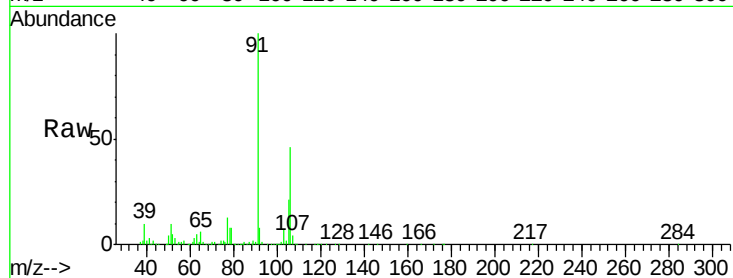


#59
m/p-Xylene
Concen: 2.540 ppbv
RT: 12.96
Delta R.T.: MSVOA_L
Lab File: ClientSampleId :
Acq: 12 Oct 2021 15:56

Tot Ion:
Ion Ratio
91 100
106 49.

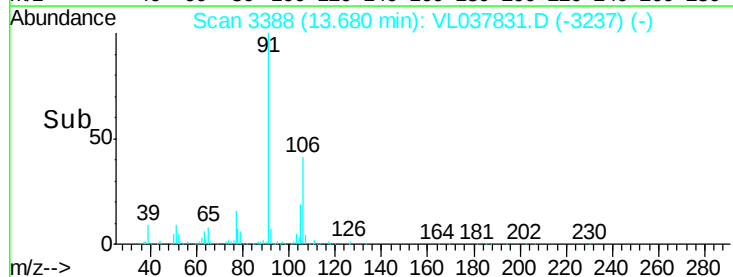
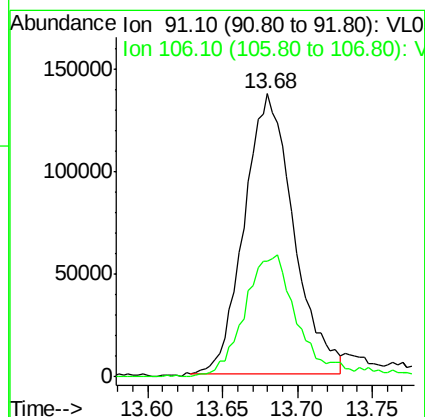
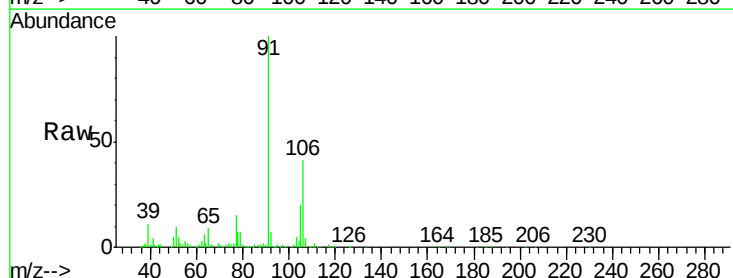
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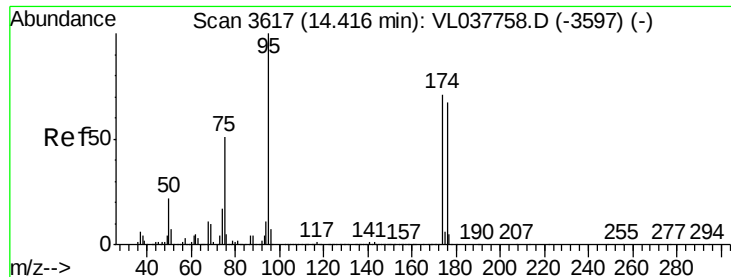
Reviewed By :Semsettin Yesilyurt 10/14/2021
Supervised By :Mahesh Dadoda 10/15/2021



#60
o-Xylene
Concen: 0.878 ppbv
RT: 13.68 min Scan# 3388
Delta R.T.: -0.01 min
Lab File: VL037831.D
Acq: 12 Oct 2021 15:56

Tgt Ion: 91 Resp: 315743
Ion Ratio Lower Upper
91 100
106 48.4 23.5 70.5



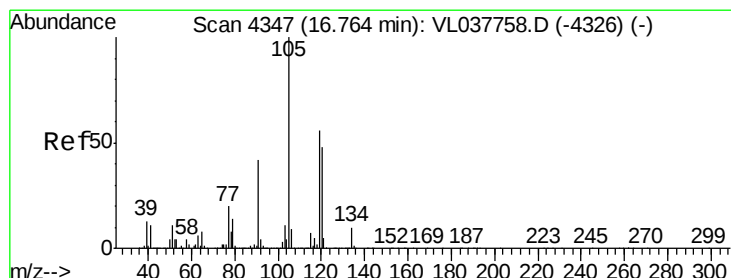
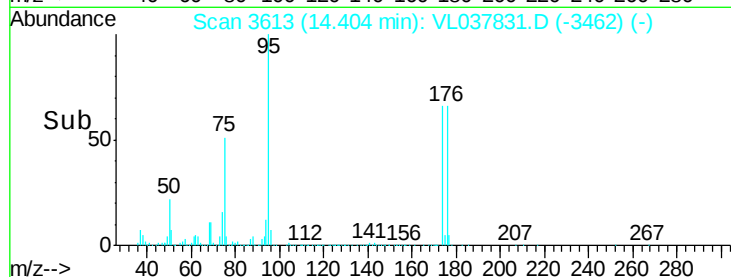
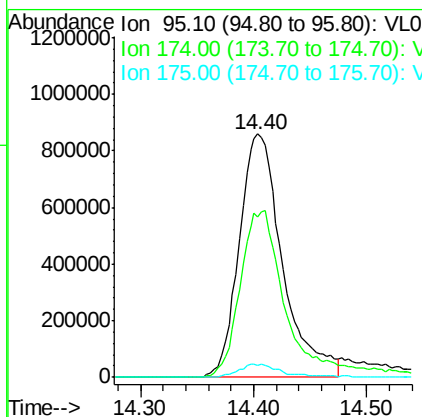
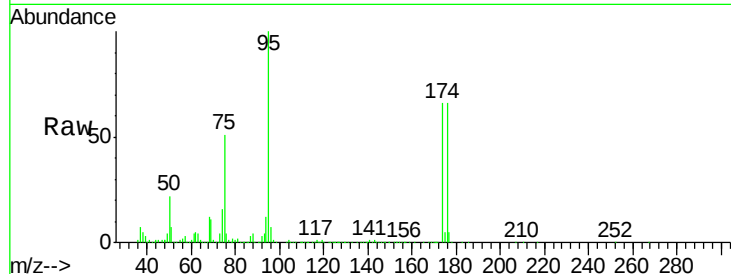


#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.037 ppbv
 RT: 14.40 min
 Delta R.T.: MSVOA_L
 Lab File: ClientSampleId :
 Acq: 12 Oct 2021 15:56

Tot Ion:
 Ion Ratio
 95 100
 174 75.
 175 5.

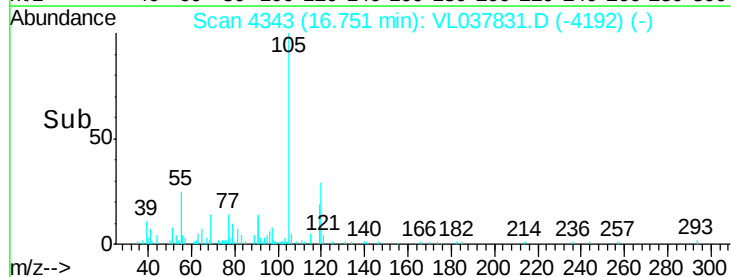
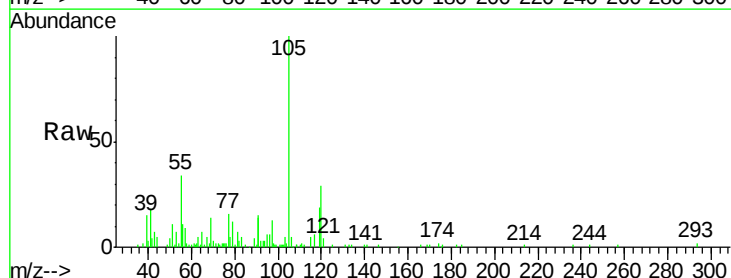
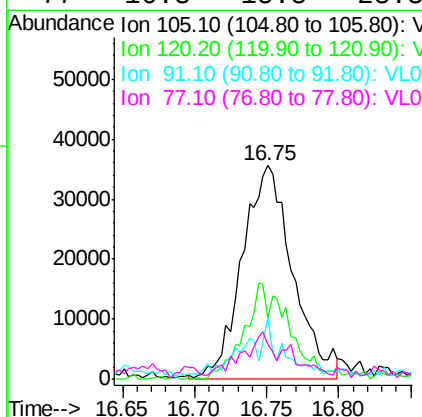
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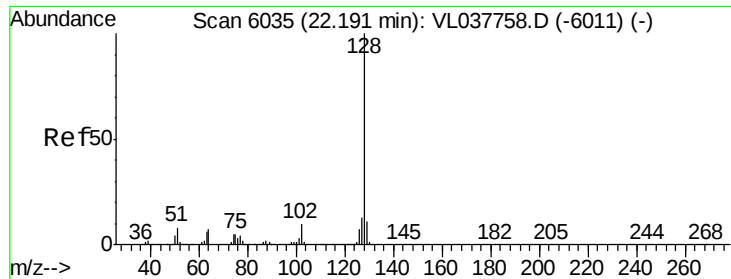
Reviewed By :Semsettin Yesilyurt 10/14/2021
 Supervised By :Mahesh Dadoda 10/15/2021



#74
 1,2,4-Trimethylbenzene
 Concen: 0.223 ppbv m
 RT: 16.75 min Scan# 4343
 Delta R.T.: -0.01 min
 Lab File: VL037831.D
 Acq: 12 Oct 2021 15:56

Tgt Ion:105 Resp: 86998
 Ion Ratio Lower Upper
 105 100
 120 28.7 38.4 57.6#
 91 14.6 34.2 51.2#
 77 16.3 15.8 23.8





#79

Naphthalene

Concen: 0.239 ppbv m

RT: 22.18

Delta R.T

Lab File: ClientSampleId :

Acq: 12 Oct 2021 15:58

Tot Ion:1

Ion Rati

128 100

127 14.

129 11.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 10/14/2021

Supervised By :Mahesh Dadoda 10/15/2021

