

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL102721\
 Data File : VL037930.D
 Acq On : 28 Oct 2021 00:05
 Operator : SY/AP
 Sample : M4377-03DUP
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA L
 ClientSampleId :
 FIRE-PUMP-ROOM-1ADUP

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 10/28/2021
 Supervised By :Mahesh Dadoda 10/29/2021

Quant Time: Oct 28 12:59:25 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	5.68	49	1302863	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	3770450	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.10	117	3096587	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.42	95	2144540	9.90	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.00%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.06	85	36226	0.174	ppbv	92
9) Propene	3.04	41	135520m	1.471	ppbv	
10) Heptane	8.13	43	36493m	0.174	ppbv	
11) Trichlorofluoromethane	3.96	101	38650	0.208	ppbv	91
13) Ethanol	3.62	45	538866	71.536	ppbv	81
15) Acetone	3.86	43	2447860	20.929	ppbv	97
17) tert-Butyl alcohol	4.31	59	40307m	0.335	ppbv	
19) Isopropyl Alcohol	3.98	45	6560326	90.161	ppbv	99
20) Methylene Chloride	4.36	84	1966268	33.273	ppbv	97
26) Hexane	5.70	57	1928775	11.935	ppbv #	46
30) Cyclohexane	7.14	84	45067m	0.329	ppbv	
34) 2-Butanone	5.26	43	107733	0.708	ppbv	99
35) Carbon Tetrachloride	7.02	117	12867m	0.060	ppbv	
36) Benzene	6.90	78	46538m	0.145	ppbv	
41) Tetrahydrofuran	6.07	42	57593m	0.773	ppbv	
44) 2,2,4-Trimethylpentane	7.88	57	68737m	0.127	ppbv	
52) Tetrachloroethene	11.22	164	5719m	0.046	ppbv	
53) Toluene	9.81	91	205347	0.575	ppbv	95
58) Ethyl Benzene	12.72	91	42958m	0.103	ppbv	
59) m/p-Xylene	12.98	91	149232m	0.418	ppbv	
60) o-Xylene	13.69	91	62948m	0.184	ppbv	
61) Styrene	13.54	104	35837m	0.217	ppbv	

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

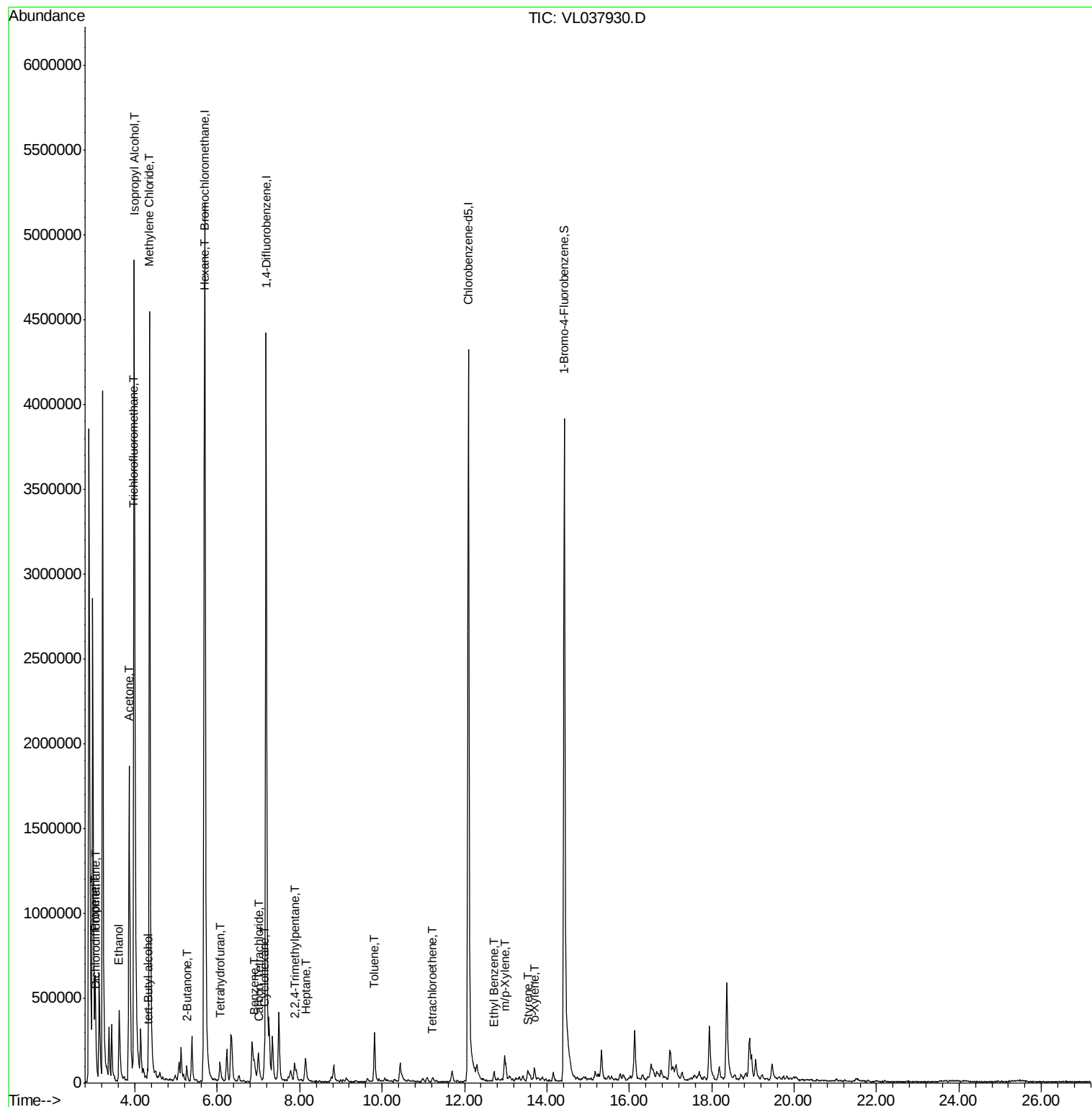
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL102721\
Data File : VL037930.D
Acq On : 28 Oct 2021 00:05
Operator : SY/AP
Sample : M4377-03DUP
Misc : 400mL/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

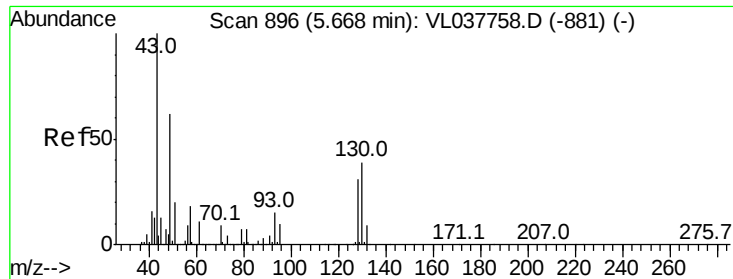
Instrument :
MSVOA_L
ClientSampleId :
FIRE-PUMP-ROOM-1ADUP

Quant Time: Oct 28 12:59:25 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

Manual Integrations
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Supervised By :Mahesh Dadoda 10/29/2021





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.68 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 28 Oct 2021 00:05 FIRE-PUMP-ROOM-1ADUP

Tot Ion:

Ion Ratio

49 100

128 53.

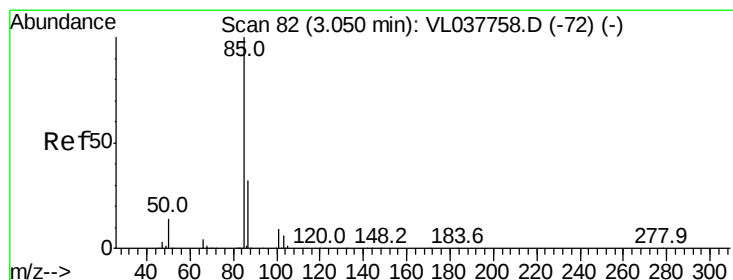
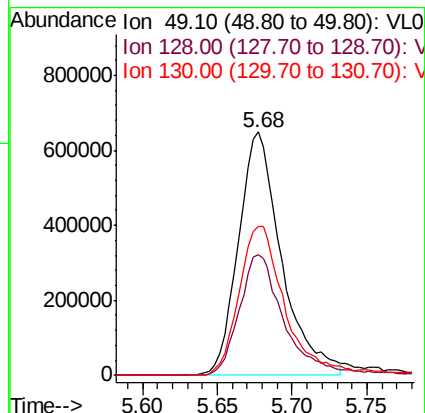
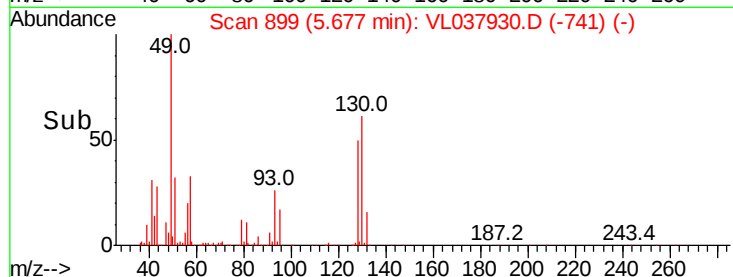
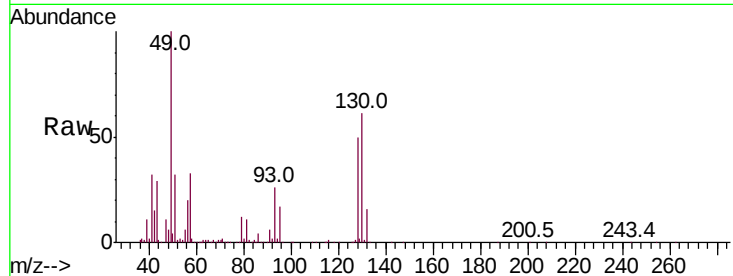
130 67.

Manual Integrations

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Supervised By :Mahesh Dadoda 10/29/2021



#2

Dichlorodifluoromethane

Concen: 0.174 ppbv

RT: 3.06 min Scan# 85

Delta R.T. 0.01 min

Lab File: VL037930.D

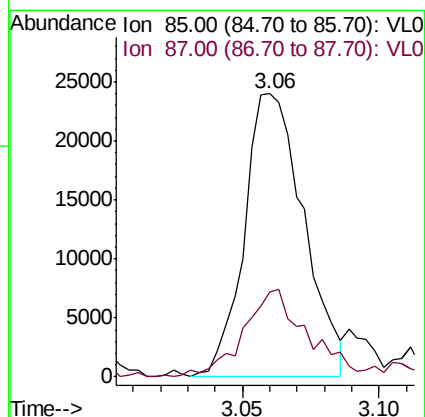
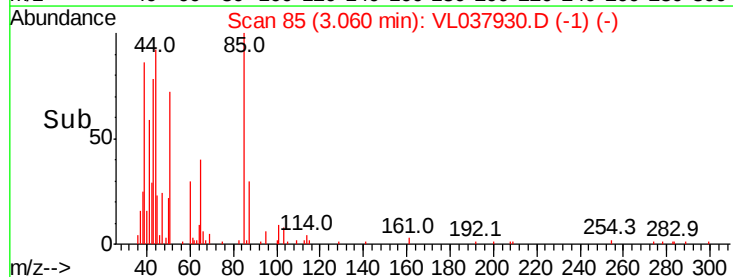
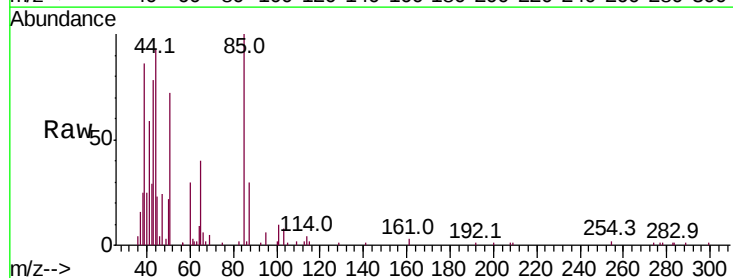
Acq: 28 Oct 2021 00:05

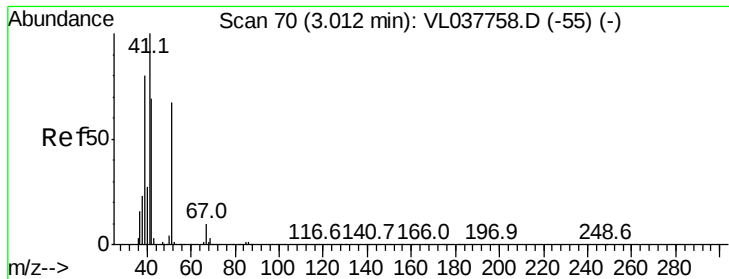
Tgt Ion: 85 Resp: 36226

Ion Ratio Lower Upper

85 100

87 27.4 25.7 38.5





#9

Propene

Concen: 1.471 ppbv m

RT: 3.04 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 28 Oct 2021 00:05 FIRE-PUMP-ROOM-1ADUP

Tot Ion:

Ion Ratio

41 100

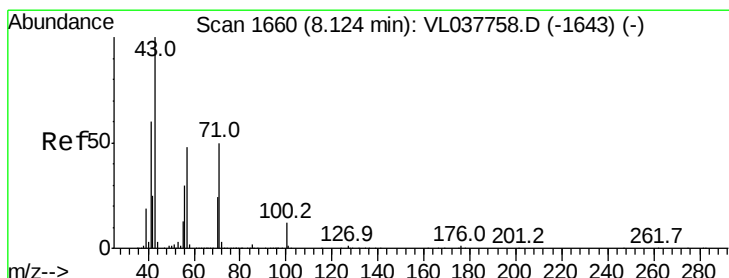
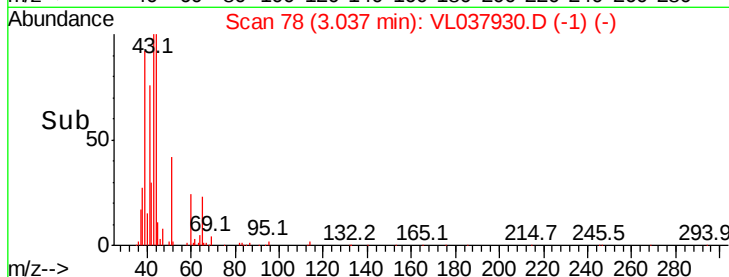
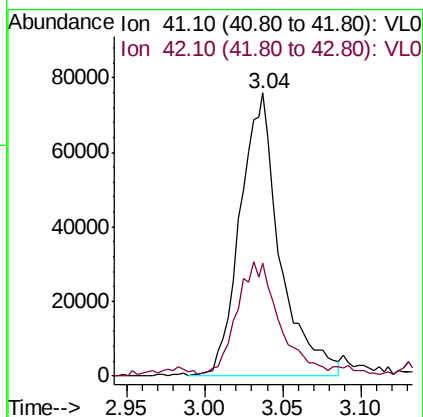
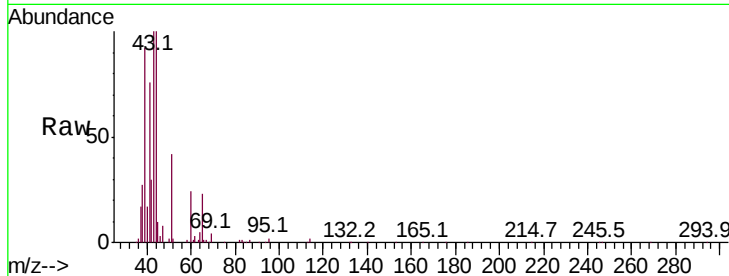
42 736.

Manual Integrations

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Supervised By :Mahesh Dadoda 10/29/2021



#10

Heptane

Concen: 0.174 ppbv m

RT: 8.13 min Scan# 1662

Delta R.T. 0.01 min

Lab File: VL037930.D

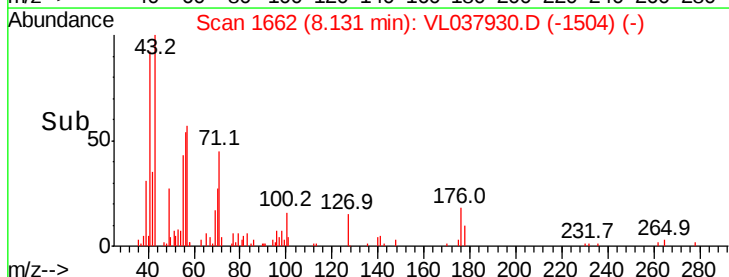
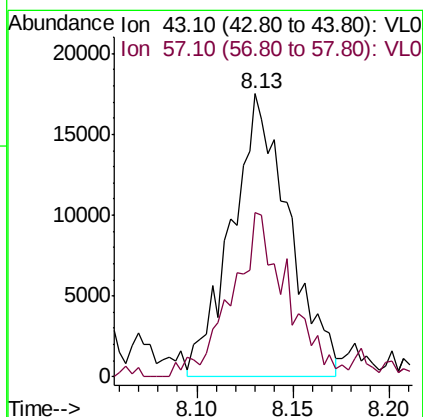
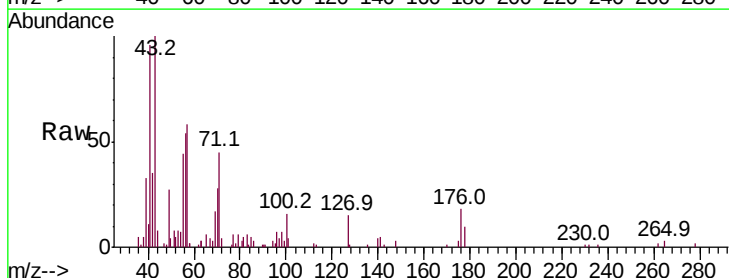
Acq: 28 Oct 2021 00:05

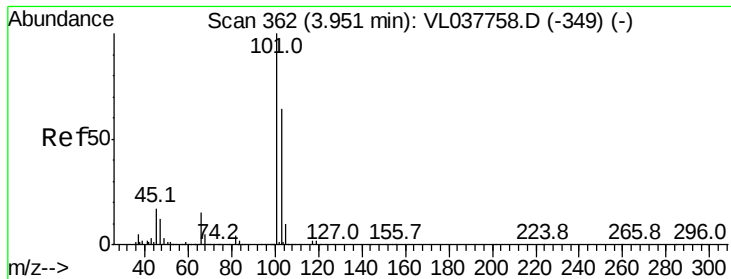
Tgt Ion: 43 Resp: 36493

Ion Ratio Lower Upper

43 100

57 60.2 40.0 60.0#



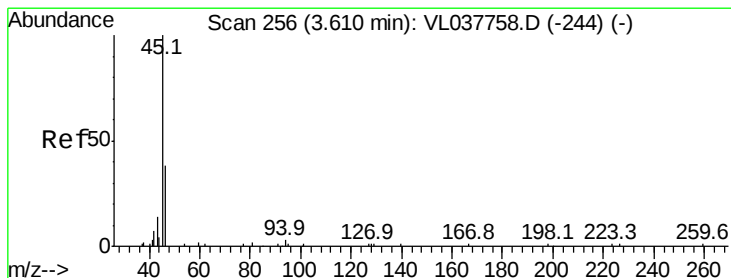
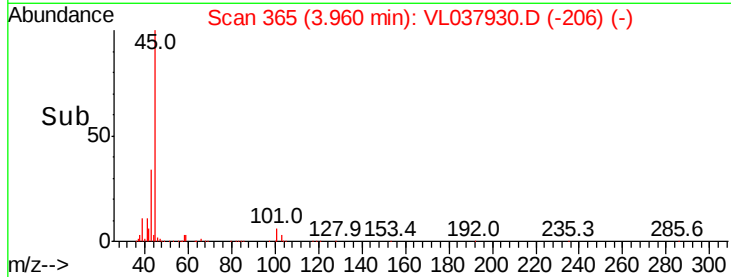
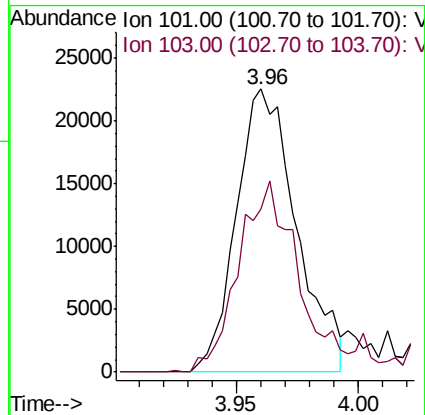
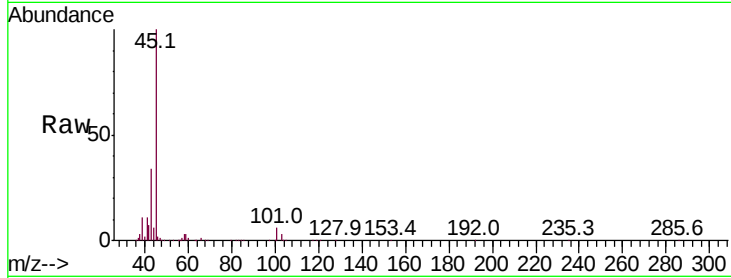


#11
 Trichlorofluoromethane
 Concen: 0.208 ppbv
 RT: 3.96
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId:
 Acq: 28 Oct 2021 00:05 FIRE-PUMP-ROOM-1ADUP

Tot Ion:1
 Ion Rati
 101 100
 103 57.

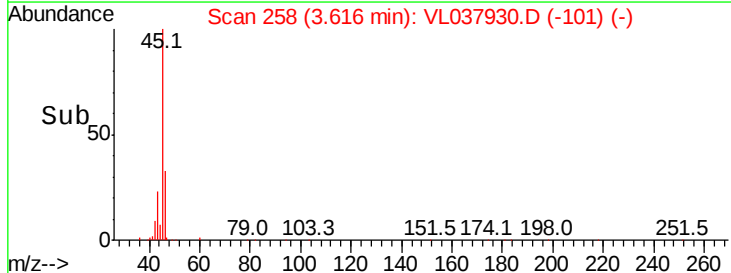
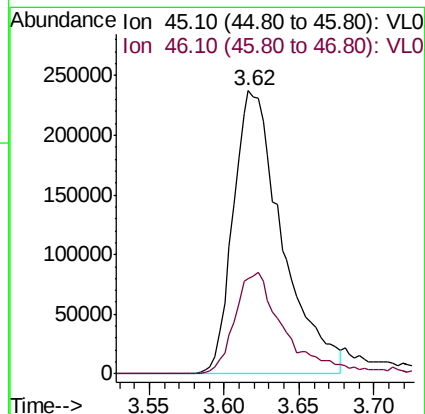
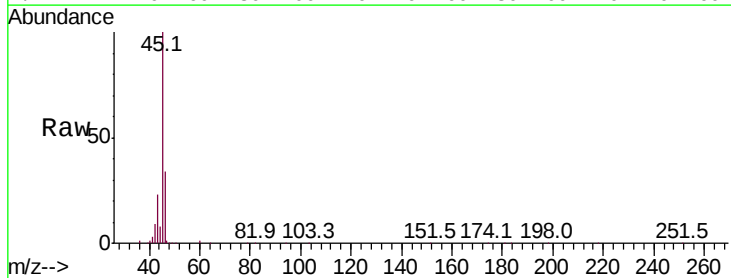
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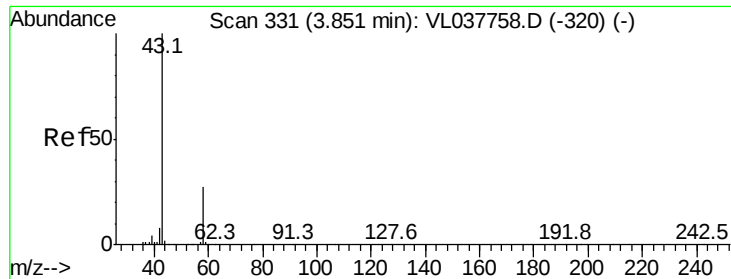
Reviewed By :Semsettin Yesilyurt 10/28/2021
 Supervised By :Mahesh Dadoda 10/29/2021



#13
 Ethanol
 Concen: 71.536 ppbv
 RT: 3.62 min Scan# 258
 Delta R.T. 0.01 min
 Lab File: VL037930.D
 Acq: 28 Oct 2021 00:05

Tgt Ion: 45 Resp: 538866
 Ion Ratio Lower Upper
 45 100
 46 37.3 20.2 81.0





#15

Acetone

Concen: 20.929 ppbv

RT: 3.86

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

Acq: 28 Oct 2021 00:05 FIRE-PUMP-ROOM-1ADUP

Tot Ion:

Ion Ratio

43 100

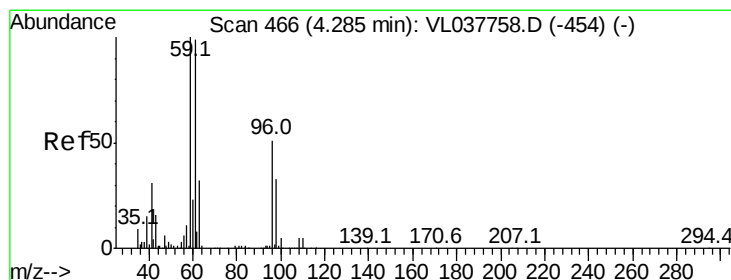
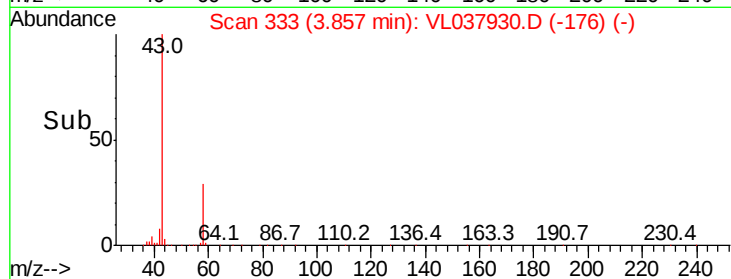
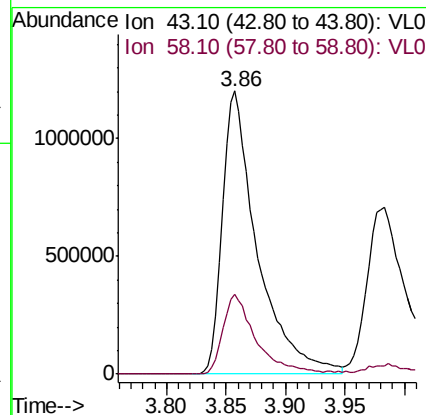
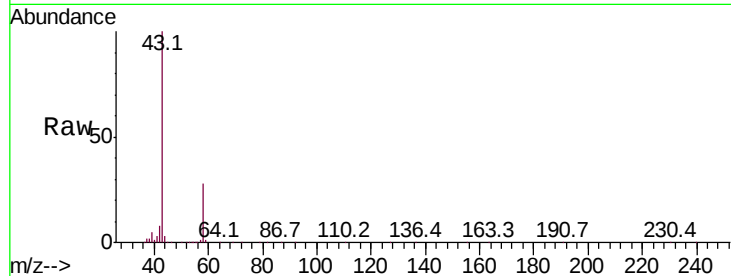
58 27.

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Supervised By :Mahesh Dadoda 10/29/2021



#17

tert-Butyl alcohol

Concen: 0.335 ppbv m

RT: 4.31 min Scan# 474

Delta R.T. 0.03 min

Lab File: VL037930.D

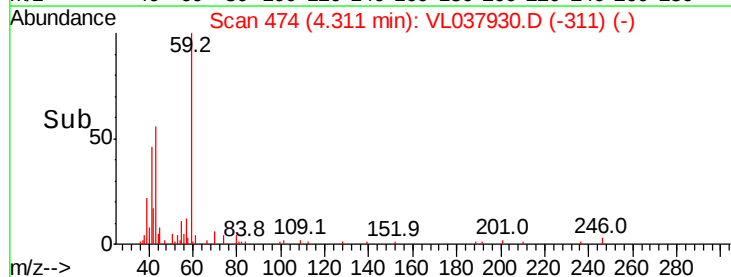
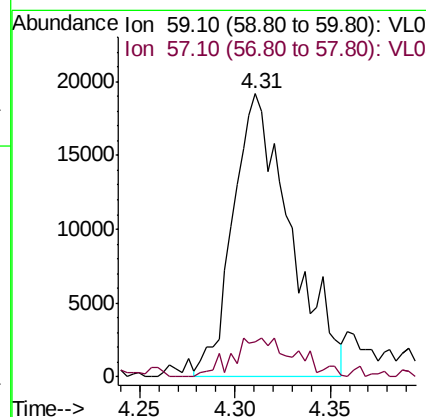
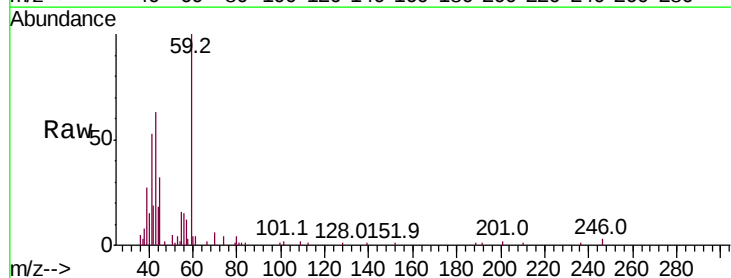
Acq: 28 Oct 2021 00:05

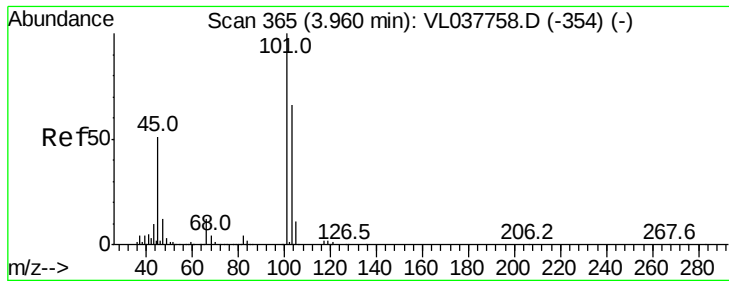
Tgt Ion: 59 Resp: 40307

Ion Ratio Lower Upper

59 100

57 67.2 8.6 13.0#





#19

Isopropyl Alcohol

Concen: 90.161 ppbv

RT: 3.98

Delta R.T. MSVOA_L

Lab File:

Acq: 28 Oct 2021 00:05

Client Sample Id :

FIRE-PUMP-ROOM-1ADUP

Tot Ion:

Ion Ratio

45 100

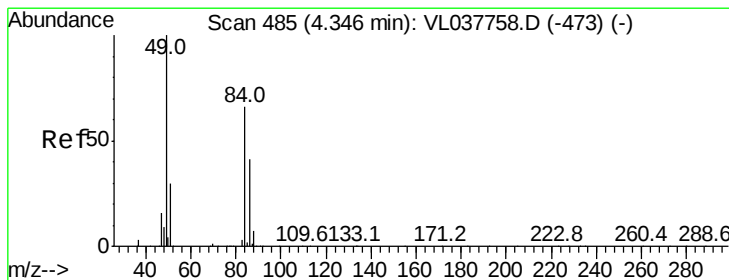
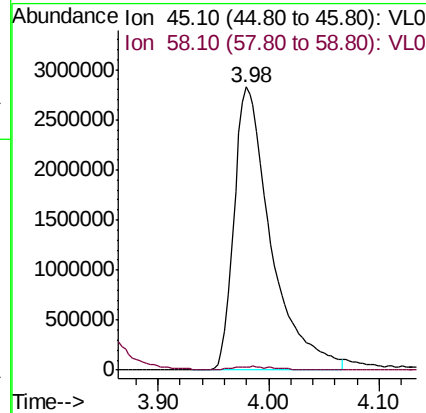
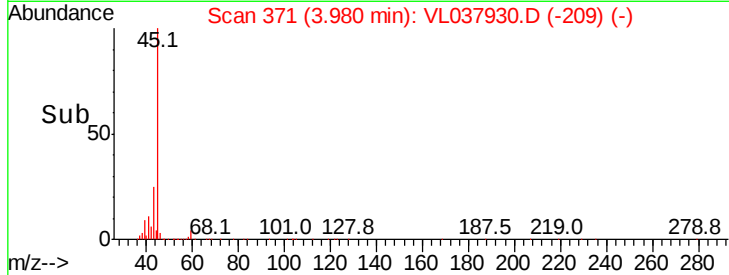
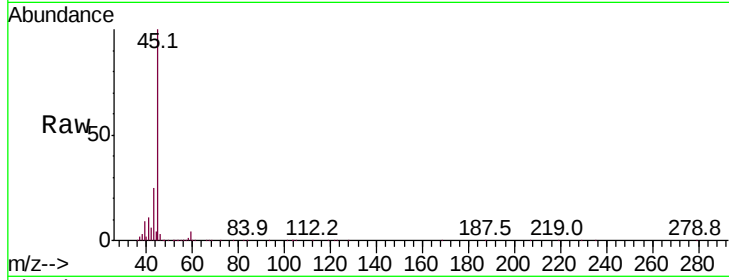
58 1.

Manual Integrations

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Supervised By :Mahesh Dadoda 10/29/2021



#20

Methylene Chloride

Concen: 33.273 ppbv

RT: 4.36 min Scan# 488

Delta R.T. 0.01 min

Lab File: VL037930.D

Acq: 28 Oct 2021 00:05

Tgt Ion: 84 Resp: 1966268

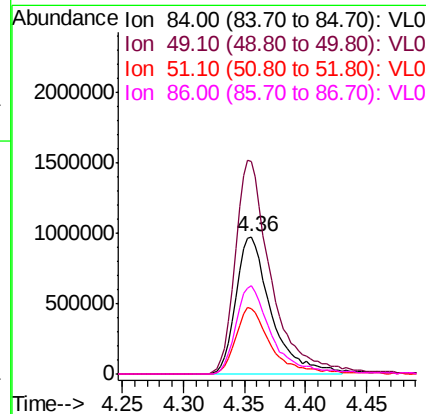
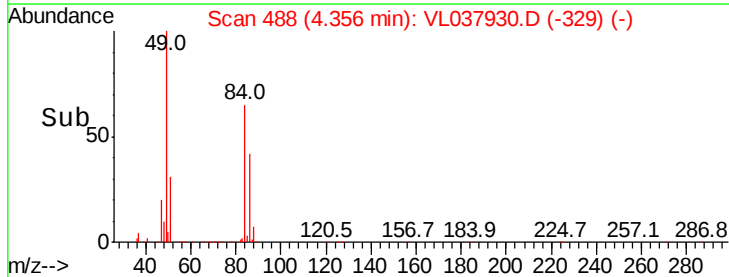
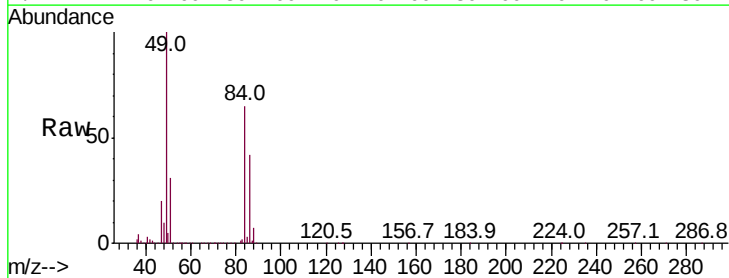
Ion Ratio Lower Upper

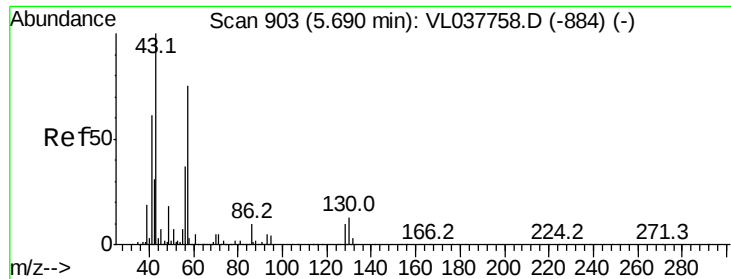
84 100

49 154.7 120.7 181.1

51 47.2 36.2 54.4

86 64.6 49.6 74.4



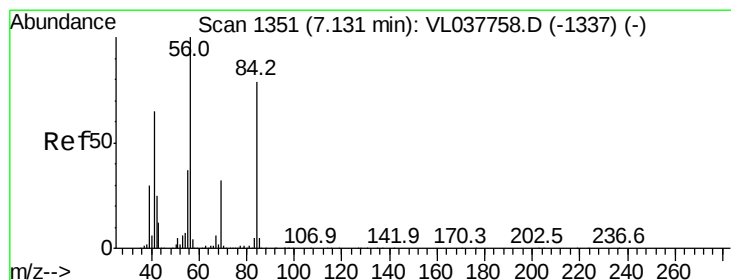
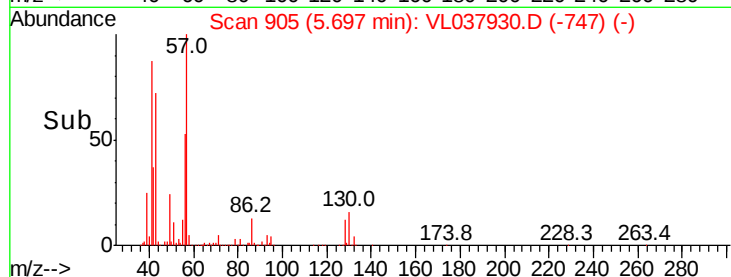
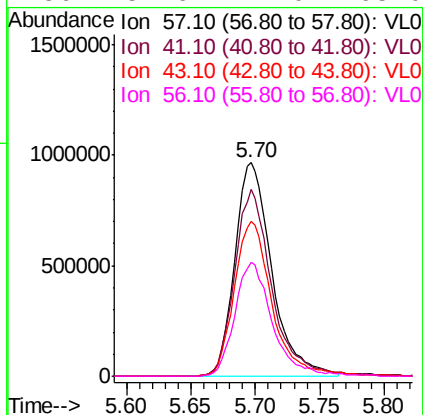
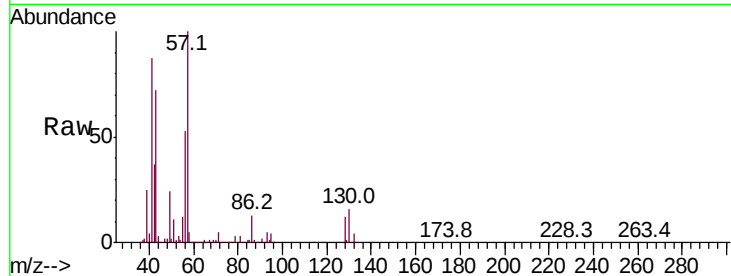


#26
Hexane
Concen: 11.935 ppbv
RT: 5.70
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 28 Oct 2021 00:05 FIRE-PUMP-ROOM-1ADUP

Tot Ion:
Ion Ratio
57 100
41 89.
43 75.
56 54.6 42.0 63.0

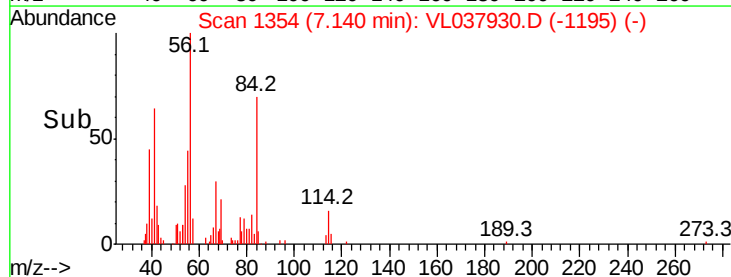
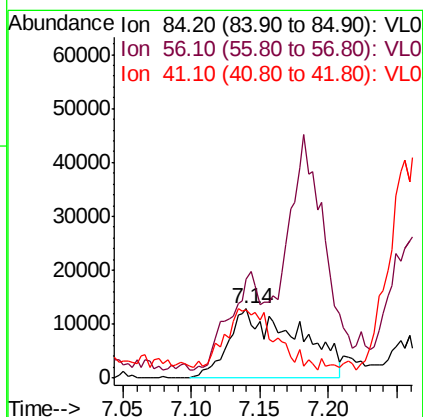
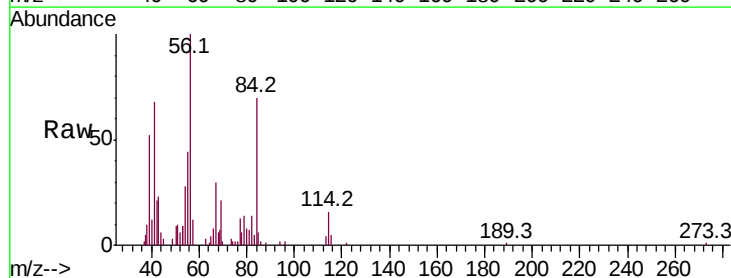
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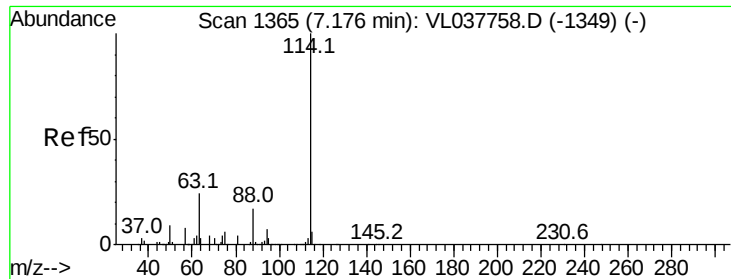
Reviewed By :Semsettin Yesilyurt 10/28/2021
Supervised By :Mahesh Dadoda 10/29/2021



#30
Cyclohexane
Concen: 0.329 ppbv m
RT: 7.14 min Scan# 1354
Delta R.T. 0.01 min
Lab File: VL037930.D
Acq: 28 Oct 2021 00:05

Tgt Ion: 84 Resp: 45067
Ion Ratio Lower Upper
84 100
56 0.0 113.0 169.4#
41 79.7 69.1 103.7



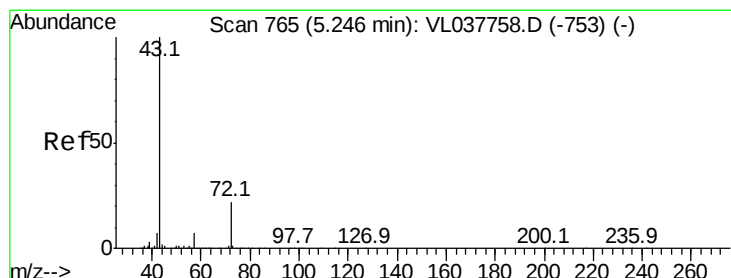
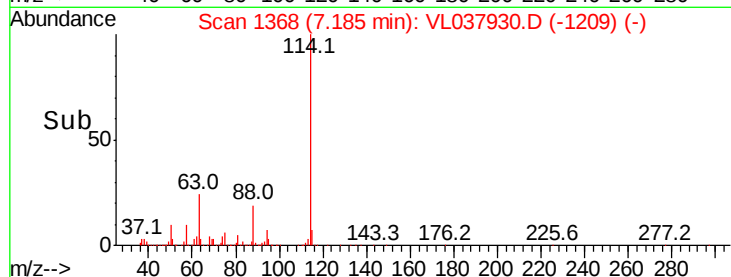
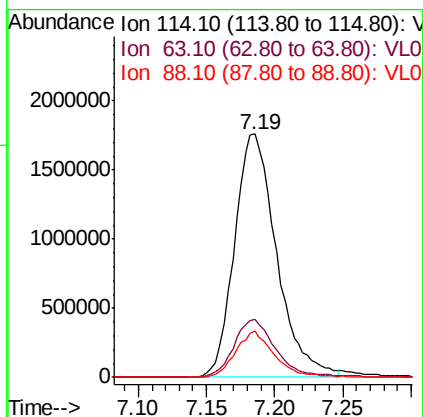
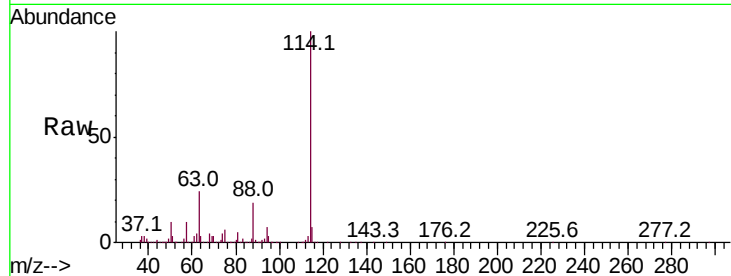


#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.19
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId:
 Acq: 28 Oct 2021 00:05 FIRE-PUMP-ROOM-1ADUP

Tot Ion:1
 Ion Rati
 114 100
 63 24.
 88 17.

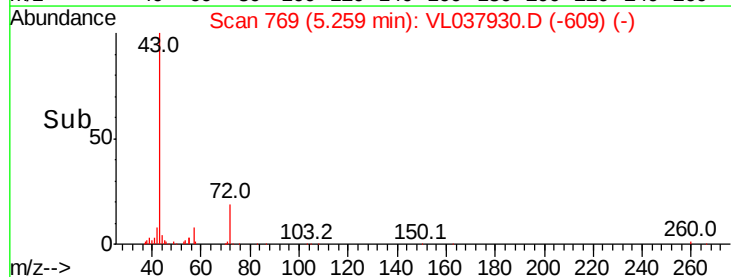
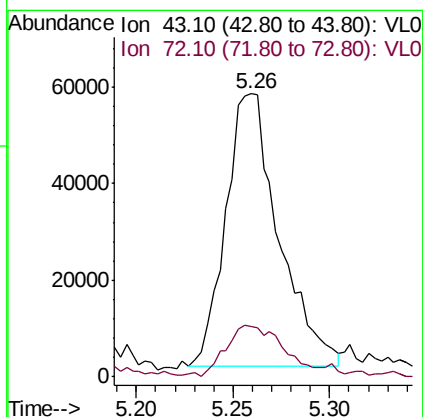
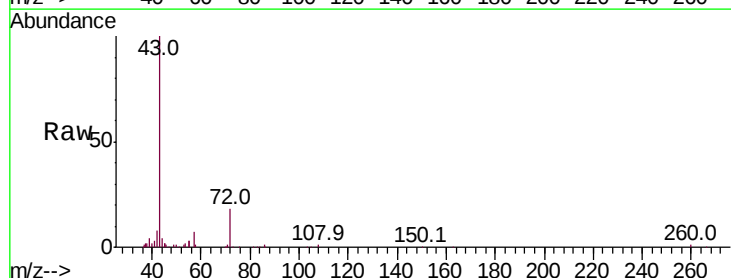
Manual Integrations
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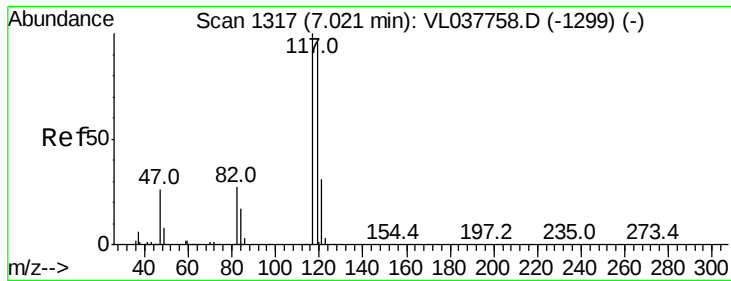
Reviewed By :Semsettin Yesilyurt 10/28/2021
 Supervised By :Mahesh Dadoda 10/29/2021



#34
 2-Butanone
 Concen: 0.708 ppbv
 RT: 5.26 min Scan# 769
 Delta R.T. 0.01 min
 Lab File: VL037930.D
 Acq: 28 Oct 2021 00:05

Tgt Ion: 43 Resp: 107733
 Ion Ratio Lower Upper
 43 100
 72 22.3 18.2 27.2





#35

Carbon Tetrachloride

Concen: 0.060 ppbv m

RT: 7.02 Instrument:

Delta R.T. MSVOA_L

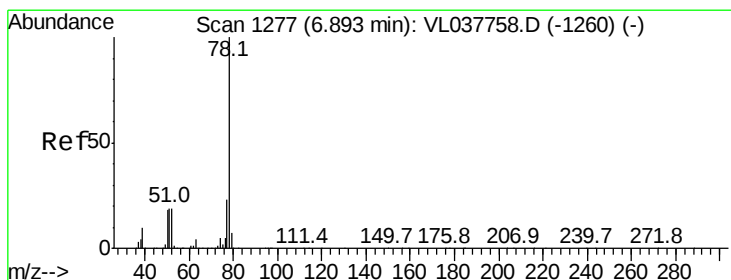
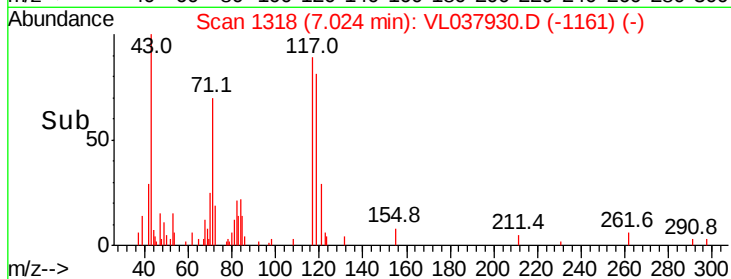
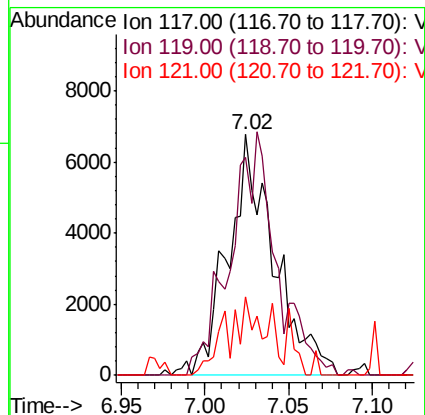
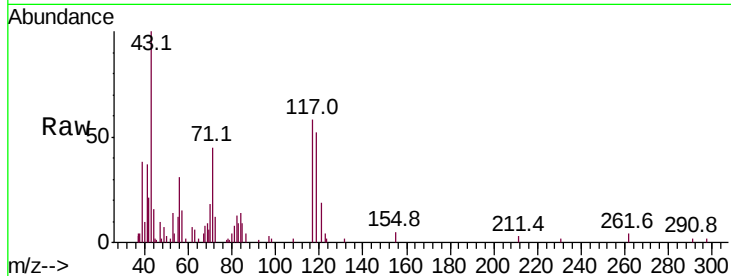
Lab File: ClientSampleId:

Acq: 28 Oct 2021 00:05 FIRE-PUMP-ROOM-1ADUP

Tot Ion:1
Ion Rati
117 100
119 90.
121 32.

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Reviewed By :Semsettin Yesilyurt 10/28/2021
Supervised By :Mahesh Dadoda 10/29/2021



#36

Benzene

Concen: 0.145 ppbv m

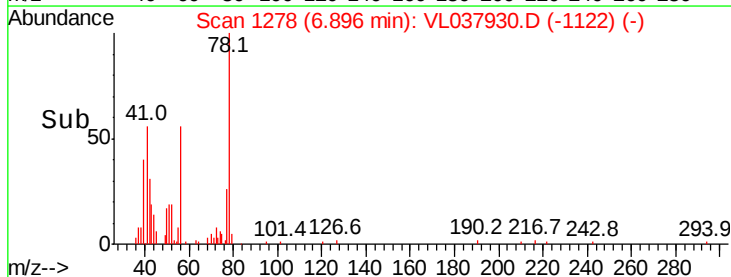
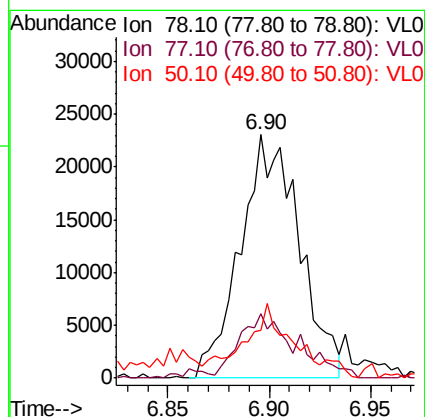
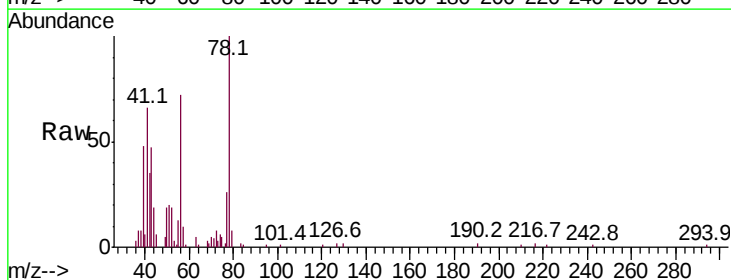
RT: 6.90 min Scan# 1278

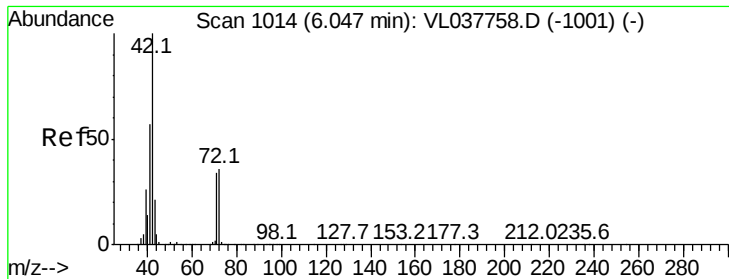
Delta R.T. 0.00 min

Lab File: VL037930.D

Acq: 28 Oct 2021 00:05

Tgt Ion: 78 Resp: 46538
Ion Ratio Lower Upper
78 100
77 26.4 18.8 28.2
50 19.4 14.7 22.1



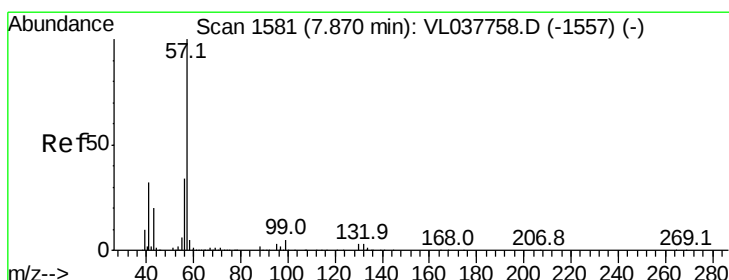
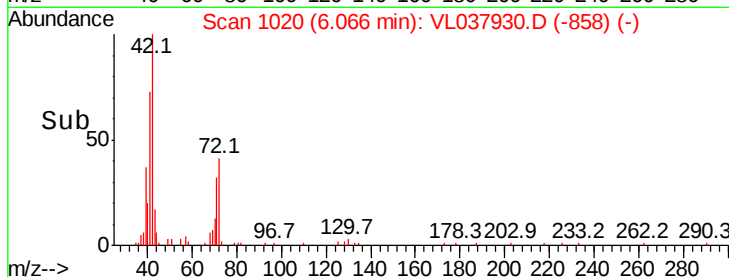
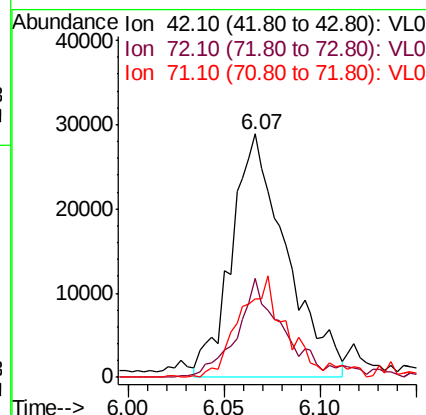
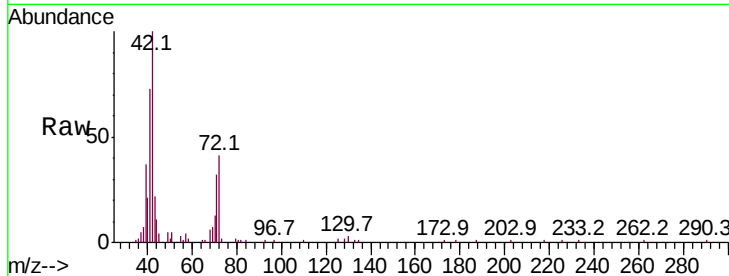


#41
Tetrahydrofuran
Concen: 0.773 ppbv m
RT: 6.07
Instrument: MSVOA_1
Delta R.T.
Lab File: ClientSampleId:
Acq: 28 Oct 2021 00:05
FIRE-PUMP-ROOM-1ADUP

Tot Ion:
Ion Ratio
42 100
72 36.
71 38.

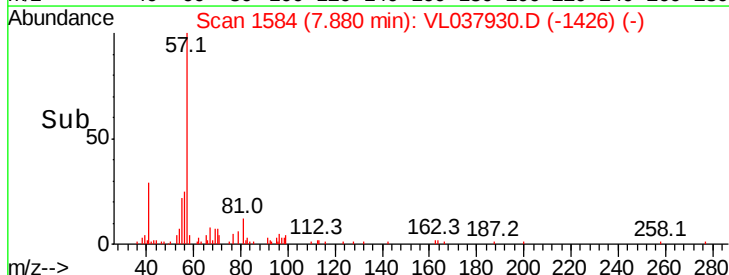
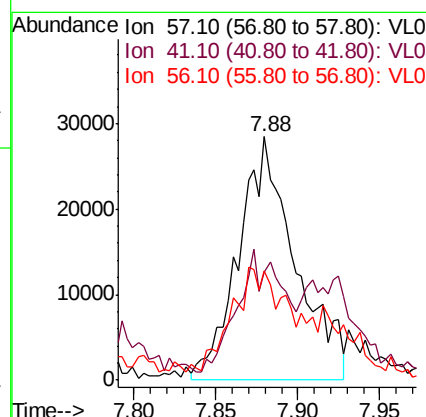
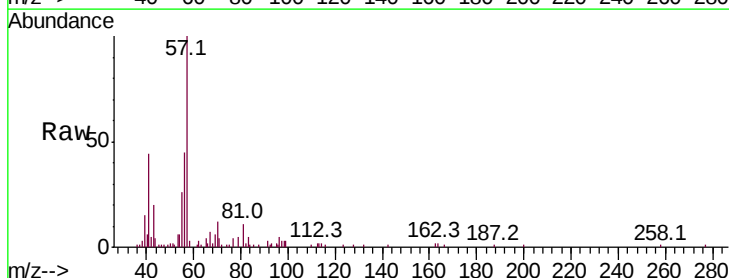
Manual Integrations
APPROVED

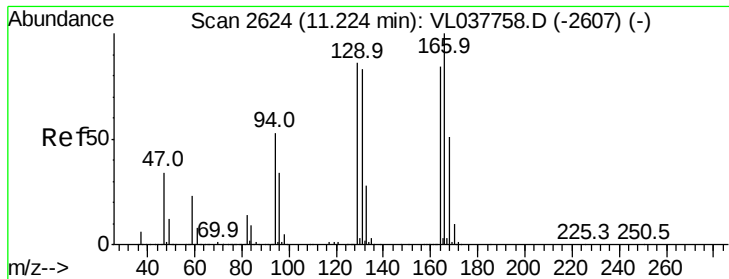
Reviewed By :Semsettin Yesilyurt 10/28/2021
Supervised By :Mahesh Dadoda 10/29/2021



#44
2,2,4-Trimethylpentane
Concen: 0.127 ppbv m
RT: 7.88 min Scan# 1584
Delta R.T. 0.01 min
Lab File: VL037930.D
Acq: 28 Oct 2021 00:05

Tgt Ion: 57 Resp: 68737
Ion Ratio Lower Upper
57 100
41 0.0 25.6 38.4#
56 0.0 25.5 38.3#





#52

Tetrachloroethene

Concen: 0.046 ppbv m

RT: 11.22

Delta R.T. MSVOA_L

Lab File:

Acq: 28 Oct 2021 00:05

ClientSampleId :

FIRE-PUMP-ROOM-1ADUP

Tot Ion:1

Ion Rati

164 100

166 169.

129 110.

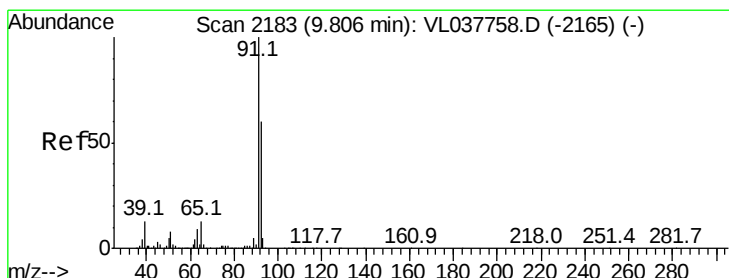
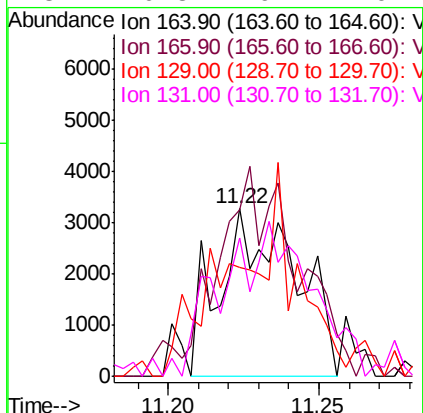
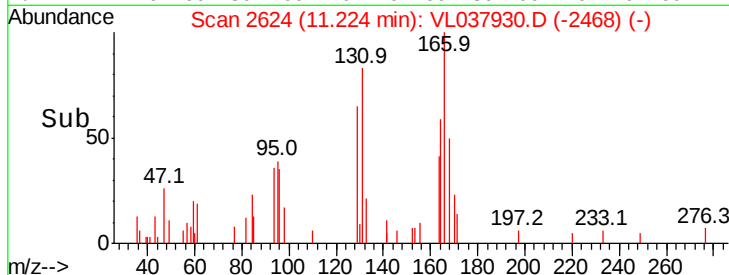
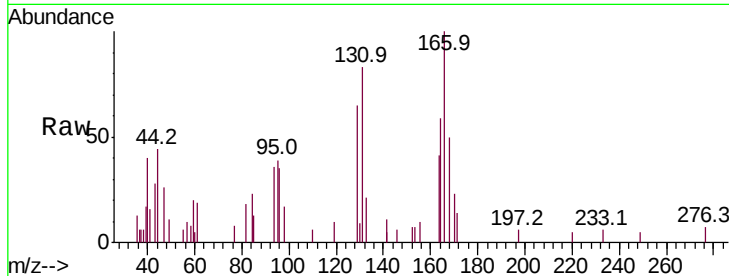
131 140.8 79.4 119.2#

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/28/2021

Supervised By :Mahesh Dadoda 10/29/2021



#53

Toluene

Concen: 0.575 ppbv

RT: 9.81 min Scan# 2185

Delta R.T. 0.01 min

Lab File: VL037930.D

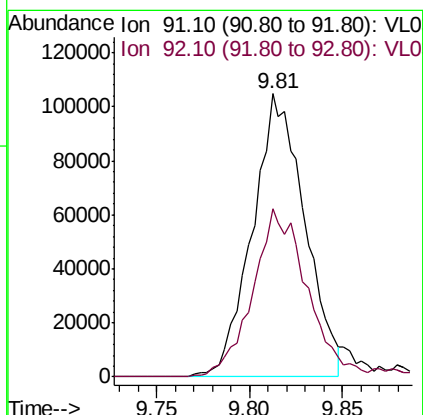
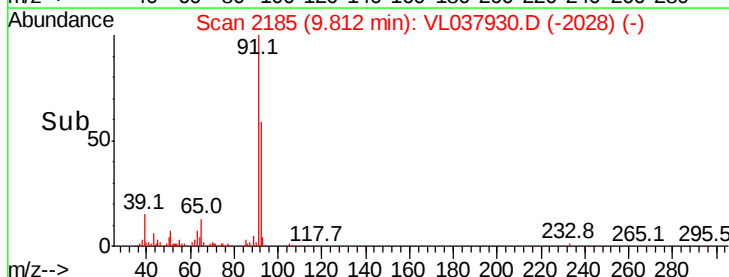
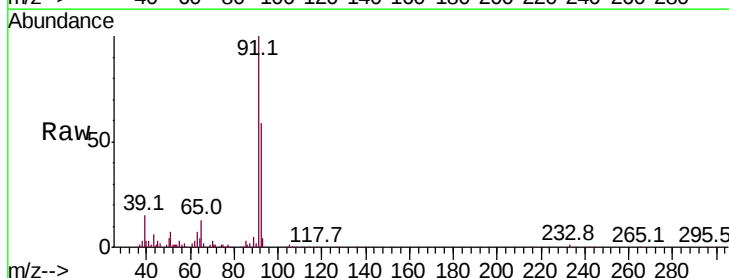
Acq: 28 Oct 2021 00:05

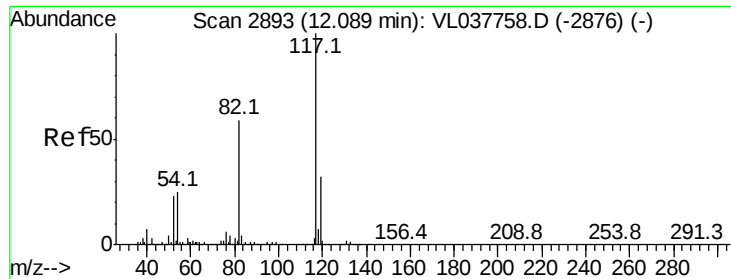
Tgt Ion: 91 Resp: 205347

Ion Ratio Lower Upper

91 100

92 64.0 48.4 72.6



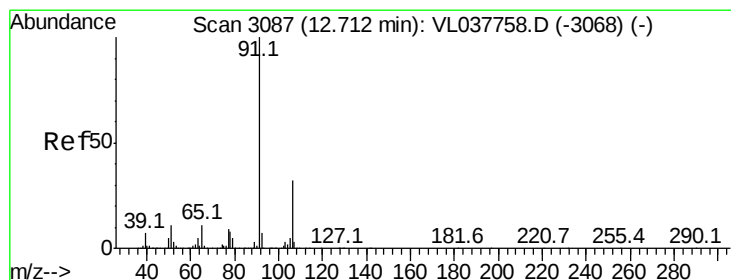
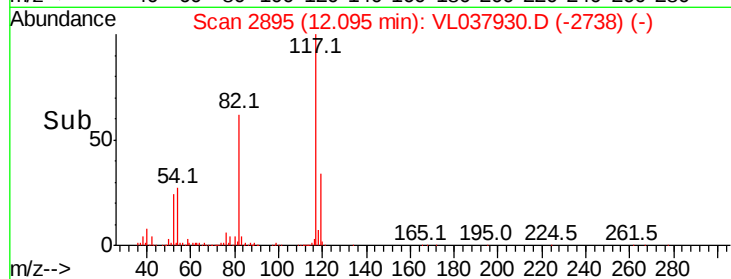
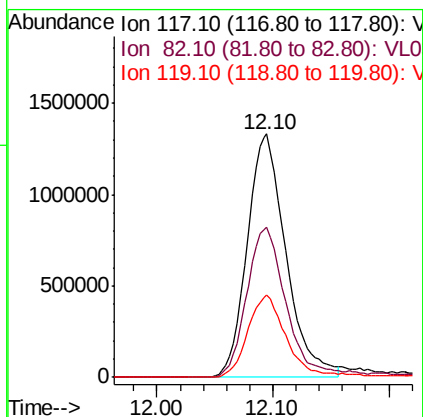
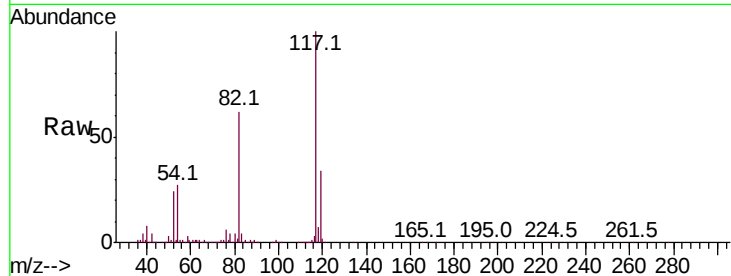


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.10
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 28 Oct 2021 00:05
FIRE-PUMP-ROOM-1ADUP

Tot Ion: 1
Ion Ratio
117 100
82 66.
119 35.

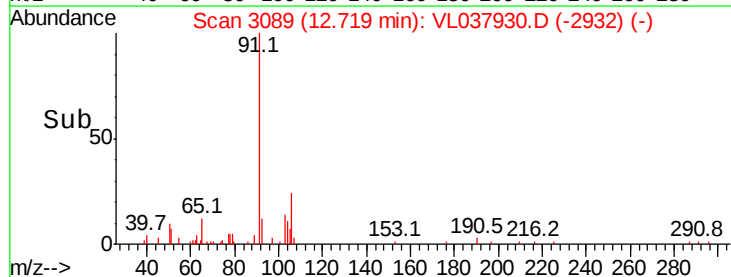
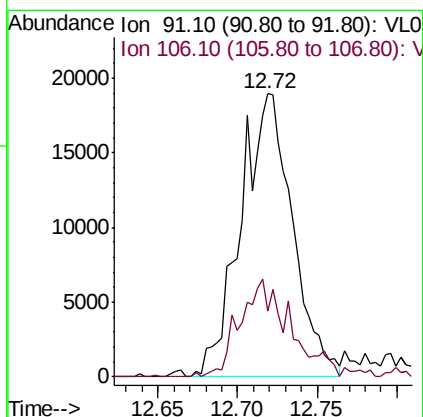
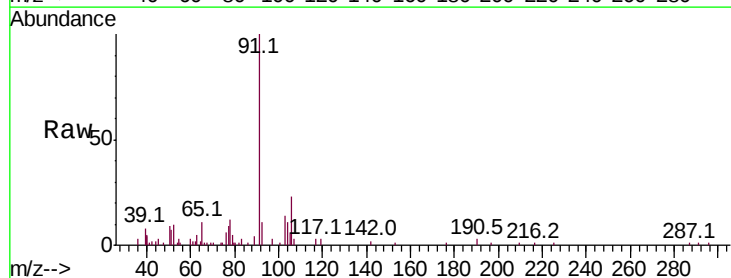
Manual Integrations
APPROVED

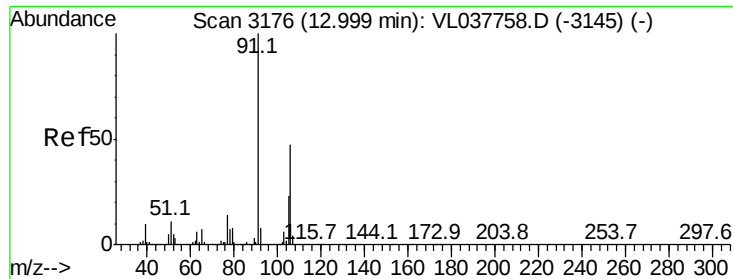
Reviewed By :Semsettin Yesilyurt 10/28/2021
Supervised By :Mahesh Dadoda 10/29/2021



#58
Ethyl Benzene
Concen: 0.103 ppbv m
RT: 12.72 min Scan# 3089
Delta R.T. 0.01 min
Lab File: VL037930.D
Acq: 28 Oct 2021 00:05

Tgt Ion: 91 Resp: 42958
Ion Ratio Lower Upper
91 100
106 23.2 25.3 37.9#





#59

m/p-Xylene

Concen: 0.418 ppbv m

RT: 12.98

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 28 Oct 2021 00:05 FIRE-PUMP-ROOM-1ADUP

Tot Ion:

Ion Ratio

91 100

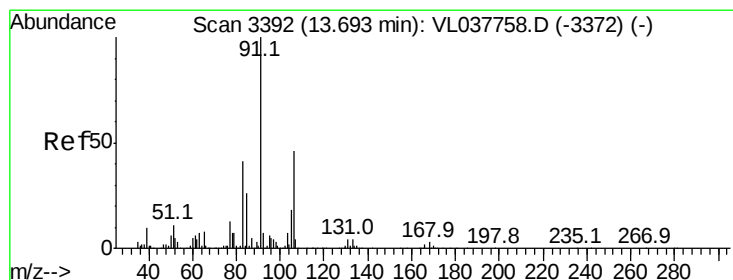
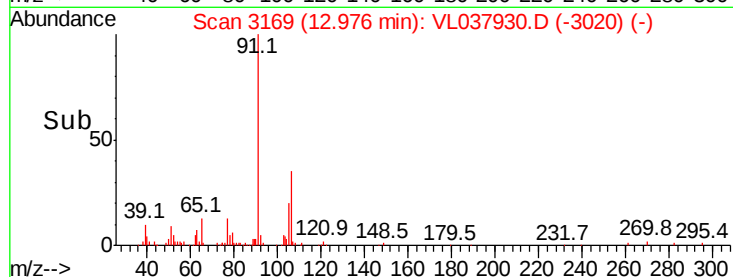
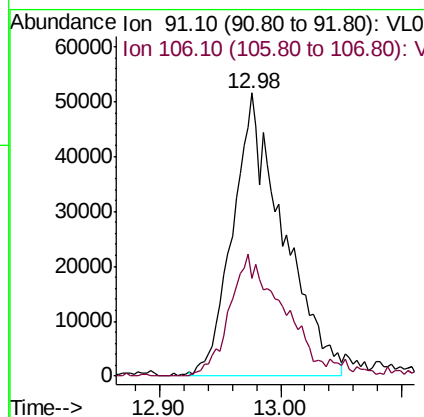
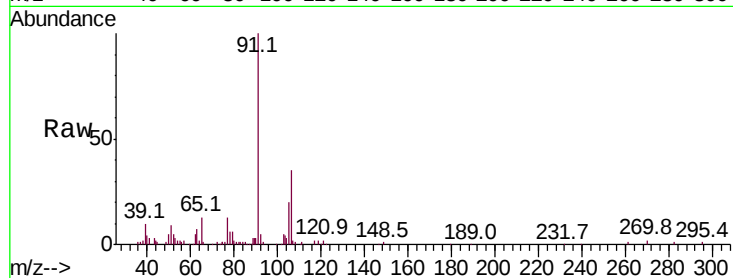
106 0.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/28/2021

Supervised By :Mahesh Dadoda 10/29/2021



#60

o-Xylene

Concen: 0.184 ppbv m

RT: 13.69 min Scan# 3392

Delta R.T. -0.00 min

Lab File: VL037930.D

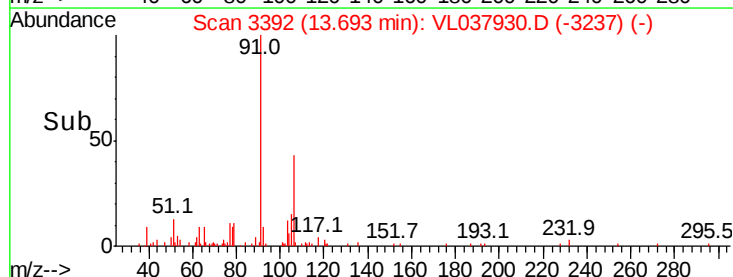
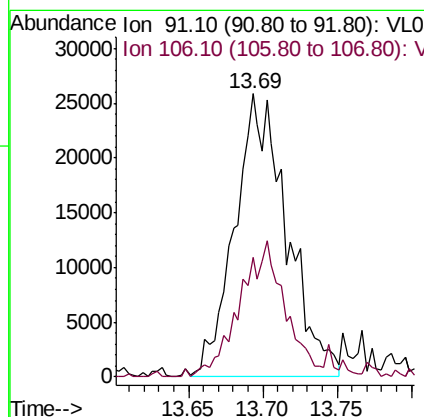
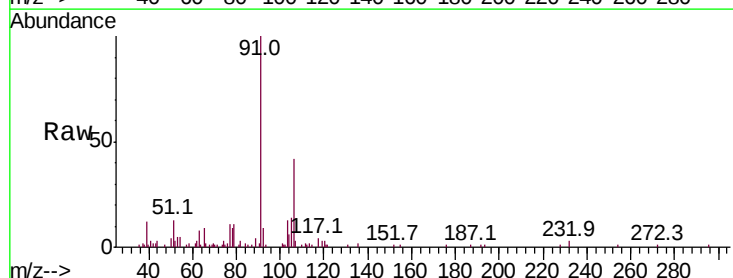
Acq: 28 Oct 2021 00:05

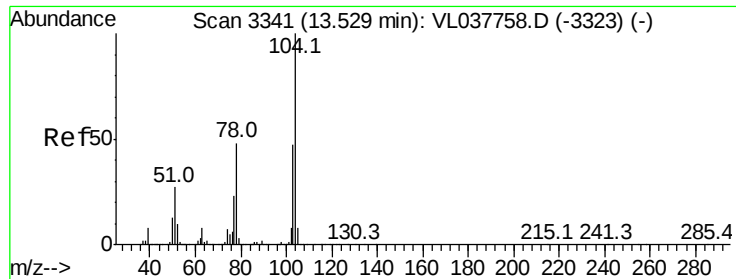
Tgt Ion: 91 Resp: 62948

Ion Ratio Lower Upper

91 100

106 44.3 23.5 70.5





#61

Stvrene

Concen: 0.217 ppbv m

RT: 13.54

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 28 Oct 2021 00:05 FIRE-PUMP-ROOM-1ADUP

Tot Ion:1

Ion Rati

104 100

78 54.

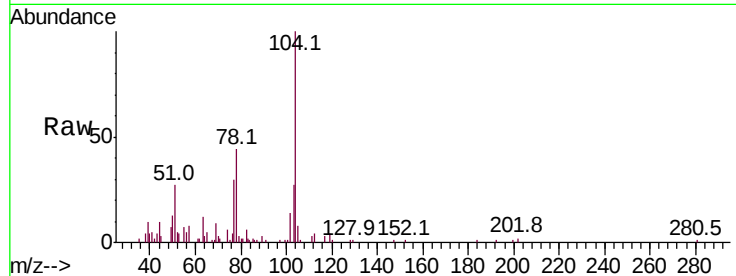
103 45.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 10/28/2021

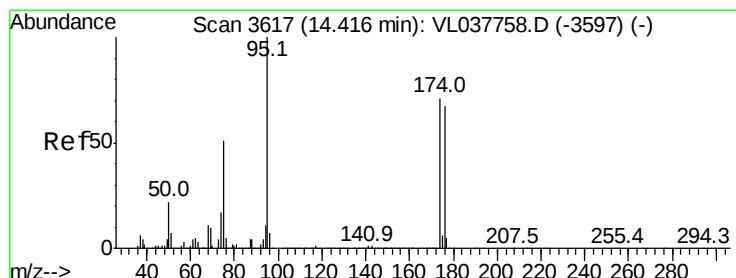
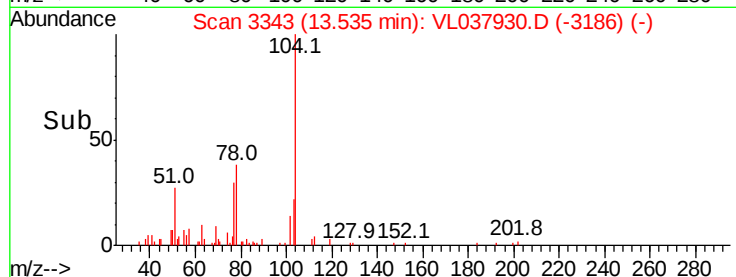
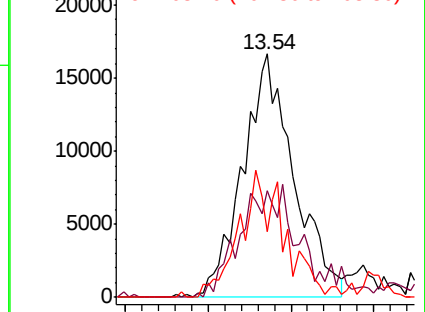
Supervised By :Mahesh Dadoda 10/29/2021



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: 9.903 ppbv

RT: 14.42 min Scan# 3619

Delta R.T. 0.01 min

Lab File: VL037930.D

Acq: 28 Oct 2021 00:05

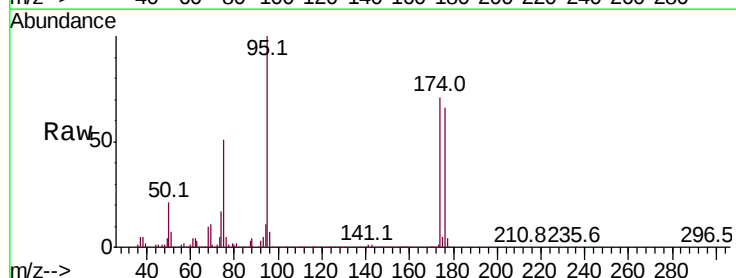
Tgt Ion: 95 Resp: 2144540

Ion Ratio Lower Upper

95 100

174 77.2 57.8 86.6

175 5.1 4.7 7.1



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

