

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL102721\
 Data File : VL037920.D
 Acq On : 27 Oct 2021 17:42
 Operator : SY/AP
 Sample : M4377-03
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

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

Manual Integrations
 APPROVED

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

Quant Time: Oct 28 12:57:01 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	1306989	10.00	ppbv	0.02
33) 1,4-Difluorobenzene	7.19	114	3664279	10.00	ppbv	0.01
55) Chlorobenzene-d5	12.10	117	3022316	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.43	95	2198319	10.40	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.00%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	3.07	85	34592	0.166	ppbv	100
9) Propene	3.04	41	154980m	1.677	ppbv	
10) Heptane	8.14	43	51702m	0.246	ppbv	
11) Trichlorofluoromethane	3.96	101	39146m	0.210	ppbv	
13) Ethanol	3.62	45	641800	84.931	ppbv	84
15) Acetone	3.86	43	2921126	24.897	ppbv	96
17) tert-Butyl alcohol	4.31	59	59024m	0.488	ppbv	
19) Isopropyl Alcohol	3.98	45	8493286	116.357	ppbv	100
20) Methylene Chloride	4.36	84	2232403	37.657	ppbv	98
26) Hexane	5.70	57	2200065	13.571	ppbv #	45
30) Cyclohexane	7.15	84	52071m	0.379	ppbv	
34) 2-Butanone	5.26	43	136113	0.920	ppbv	95
35) Carbon Tetrachloride	7.03	117	13634m	0.066	ppbv	
36) Benzene	6.90	78	53384	0.171	ppbv #	94
41) Tetrahydrofuran	6.07	42	81851m	1.130	ppbv	
44) 2,2,4-Trimethylpentane	7.89	57	92853m	0.177	ppbv	
52) Tetrachloroethene	11.24	164	7047m	0.058	ppbv	
53) Toluene	9.82	91	290991	0.839	ppbv	99
58) Ethyl Benzene	12.73	91	63949m	0.158	ppbv	
59) m/p-Xylene	12.98	91	206763m	0.594	ppbv	
60) o-Xylene	13.70	91	74763	0.224	ppbv	92
61) Styrene	13.55	104	48205m	0.299	ppbv	

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

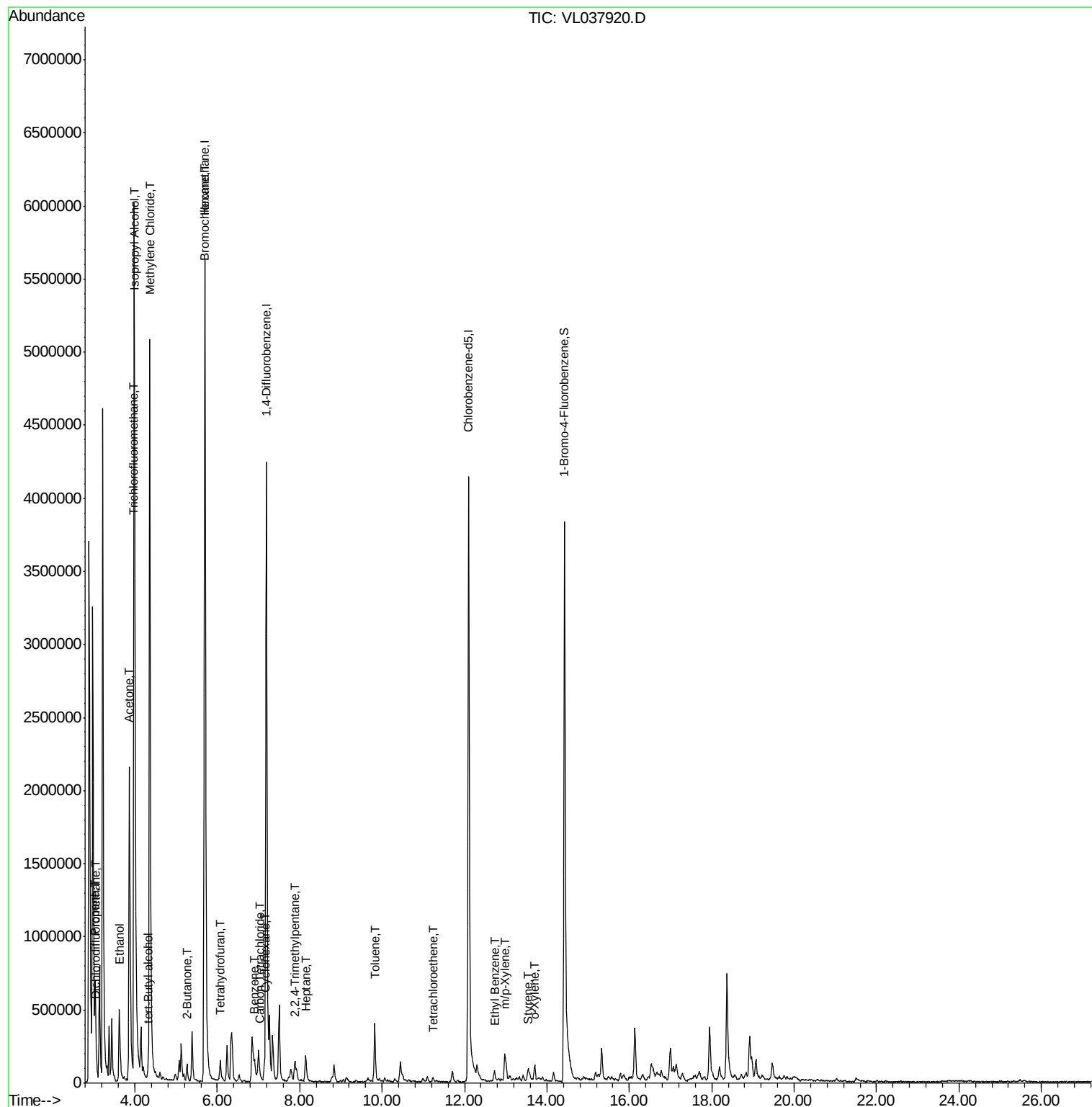
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL102721\
Data File : VL037920.D
Acq On : 27 Oct 2021 17:42
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Sample : M4377-03
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ALS Vial : 1 Sample Multiplier: 1

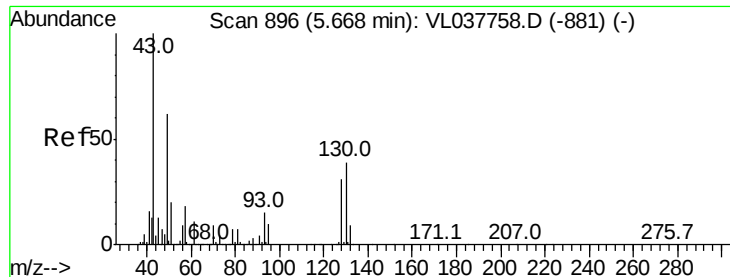
Instrument :
MSVOA_L
ClientSampleId :
FIRE-PUMP-ROOM-1A

Quant Time: Oct 28 12:57:01 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
APPROVED

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Supervised By :Mahesh Dadoda 10/29/2021





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.68 Instrument: MSVOA_1

Delta R.T.

Lab File: ClientSampleId:

Acq: 27 Oct 2021 17:42 FIRE-PUMP-ROOM-1A

Tot Ion:

Ion Ratio

49 100

128 50.

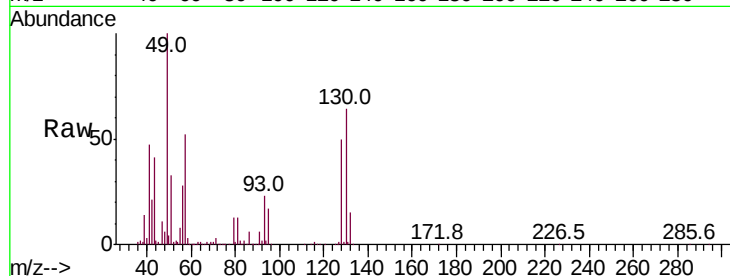
130 65.

Manual Integrations

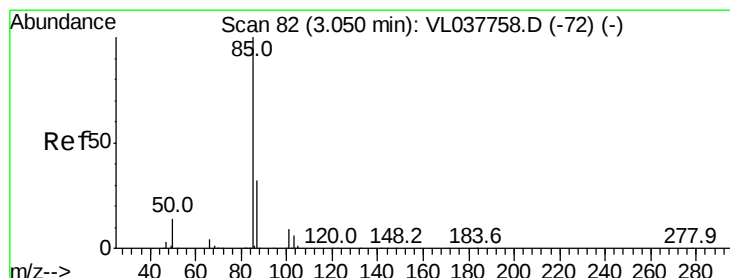
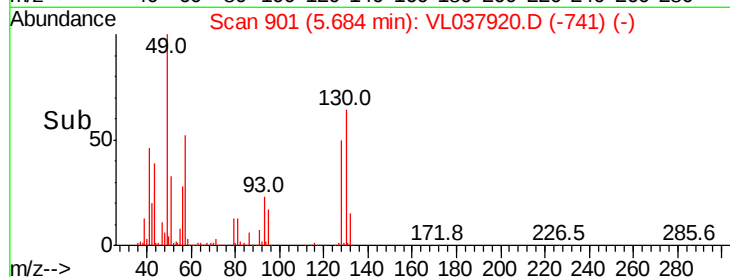
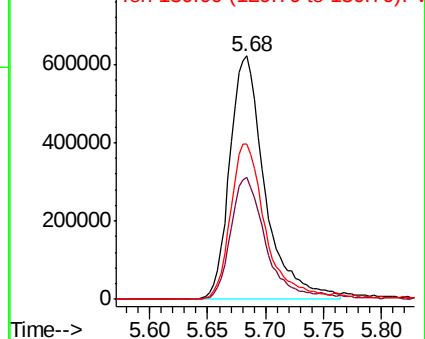
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Supervised By :Mahesh Dadoda 10/29/2021



Abundance Ion 49.10 (48.80 to 49.80): VL0
Ion 128.00 (127.70 to 128.70): V
Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 0.166 ppbv

RT: 3.07 min Scan# 87

Delta R.T. 0.02 min

Lab File: VL037920.D

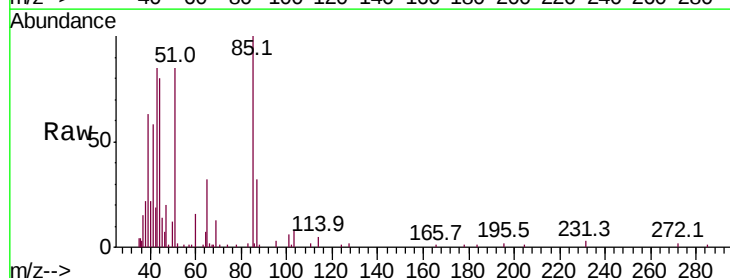
Acq: 27 Oct 2021 17:42

Tgt Ion: 85 Resp: 34592

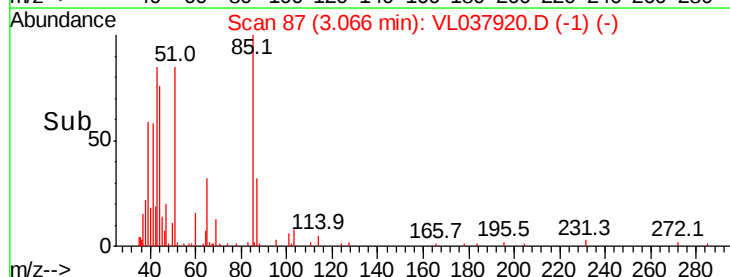
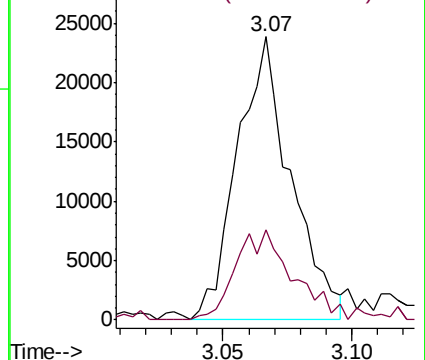
Ion Ratio Lower Upper

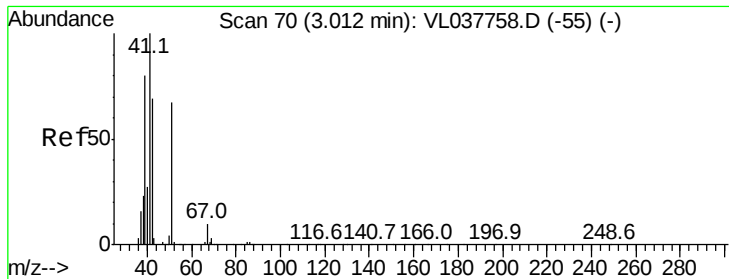
85 100

87 31.9 25.7 38.5



Abundance Ion 85.00 (84.70 to 85.70): VL0
Ion 87.00 (86.70 to 87.70): VL0





#9

Propene

Concen: 1.677 ppbv m

RT: 3.04

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 27 Oct 2021 17:42 FIRE-PUMP-ROOM-1A

Tot Ion:

Ion Ratio

41 100

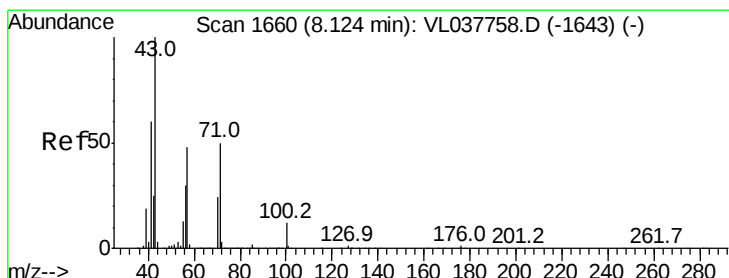
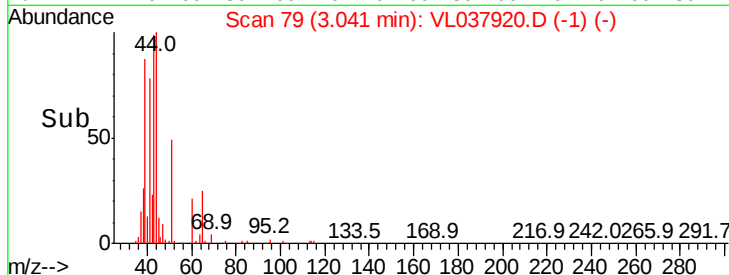
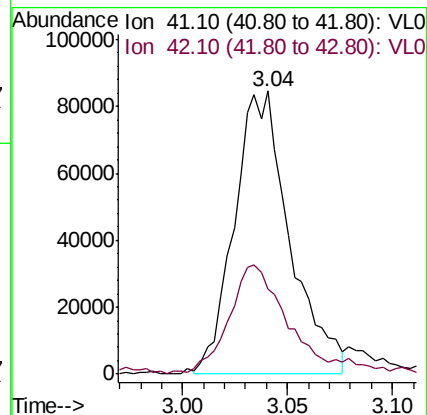
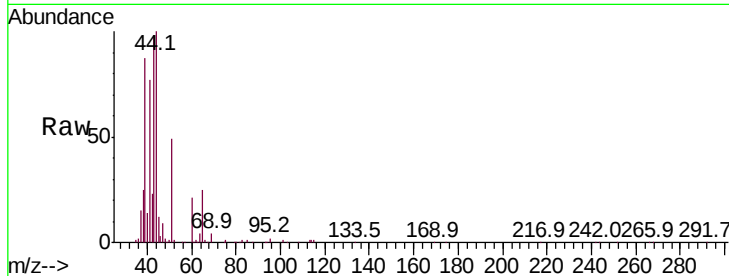
42 42.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 10/28/2021

Supervised By :Mahesh Dadoda 10/29/2021



#10

Heptane

Concen: 0.246 ppbv m

RT: 8.14 min Scan# 1666

Delta R.T. 0.02 min

Lab File: VL037920.D

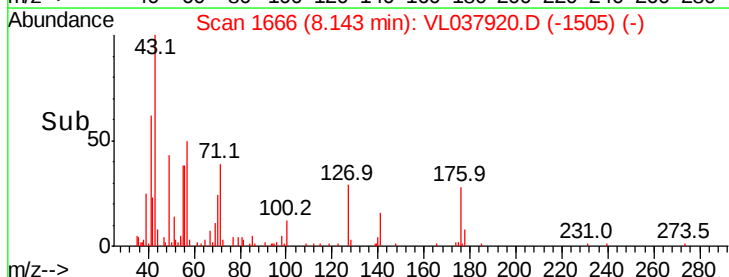
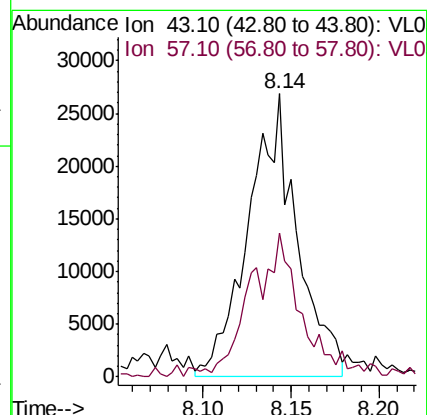
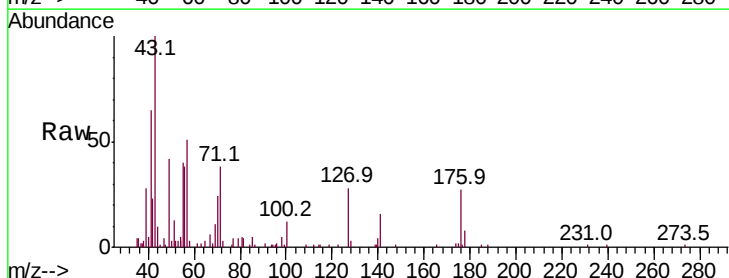
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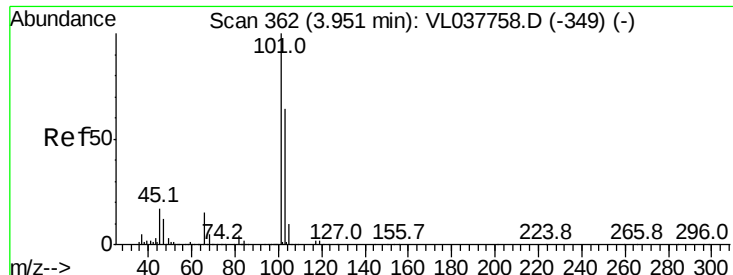
Tgt Ion: 43 Resp: 51702

Ion Ratio Lower Upper

43 100

57 55.8 40.0 60.0



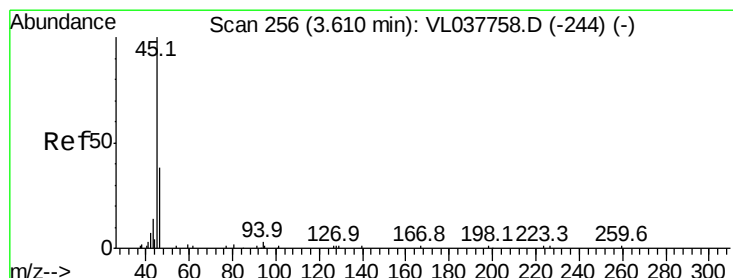
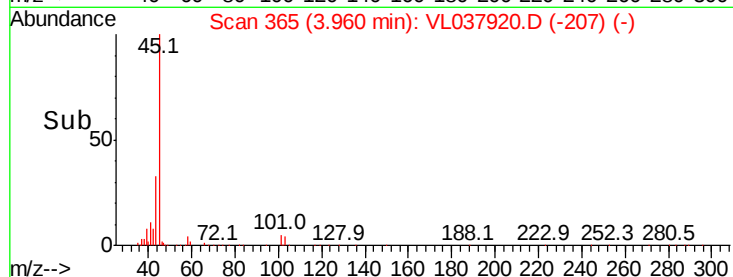
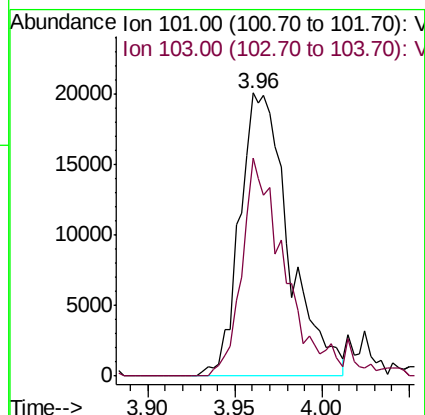
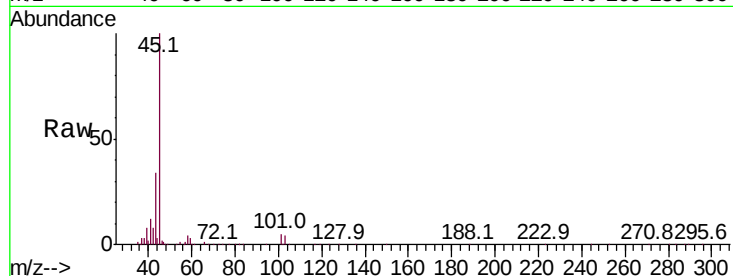


#11
 Trichlorofluoromethane
 Concen: 0.210 ppbv m
 RT: 3.96
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId:
 Acq: 27 Oct 2021 17:42

Tot Ion:1
 Ion Rati
 101 100
 103 77.

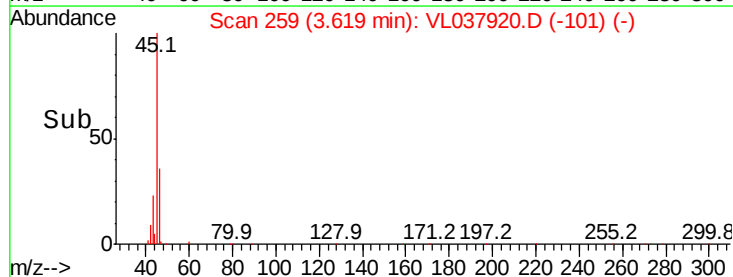
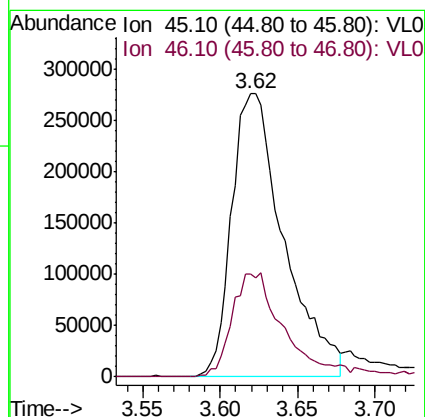
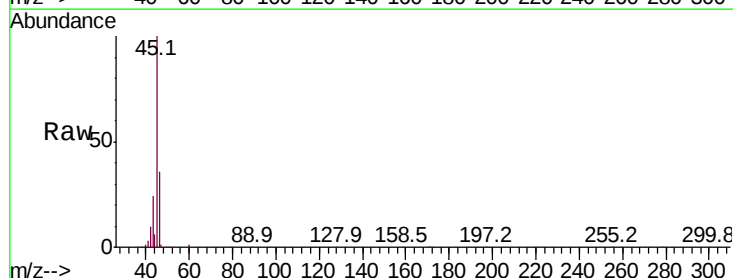
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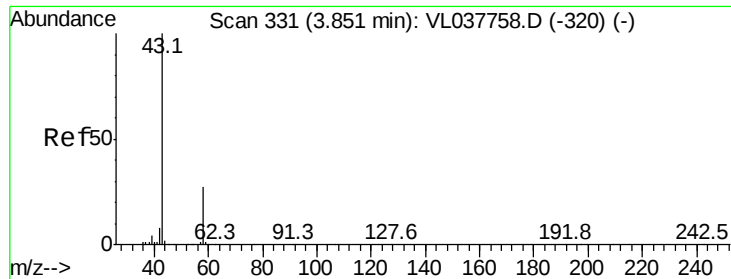
Reviewed By :Semsettin Yesilyurt 10/28/2021
 Supervised By :Mahesh Dadoda 10/29/2021



#13
 Ethanol
 Concen: 84.931 ppbv
 RT: 3.62 min Scan# 259
 Delta R.T. 0.01 min
 Lab File: VL037920.D
 Acq: 27 Oct 2021 17:42

Tgt Ion: 45 Resp: 641800
 Ion Ratio Lower Upper
 45 100
 46 39.6 20.2 81.0



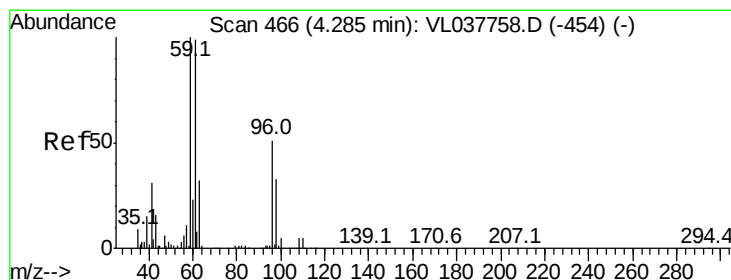
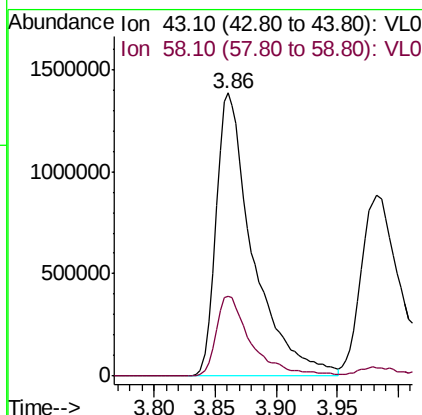
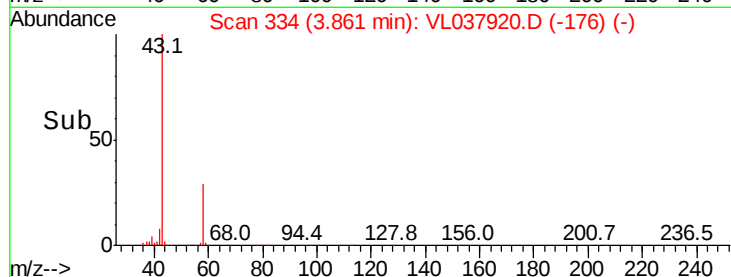
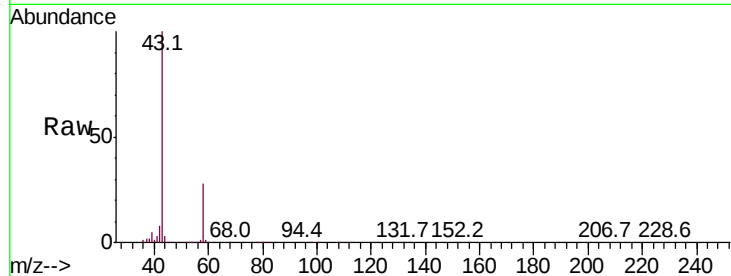


#15
Acetone
Concen: 24.897 ppbv
RT: 3.86
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 27 Oct 2021 17:42 FIRE-PUMP-ROOM-1A

Tot Ion:
Ion Ratio
43 100
58 26.

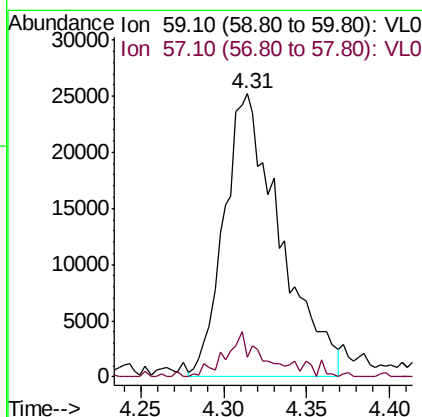
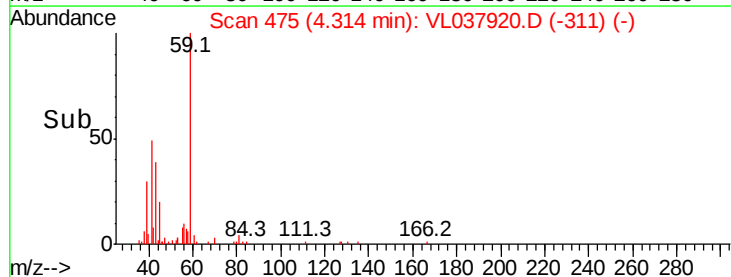
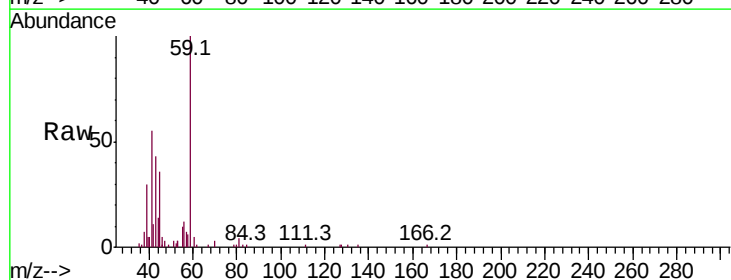
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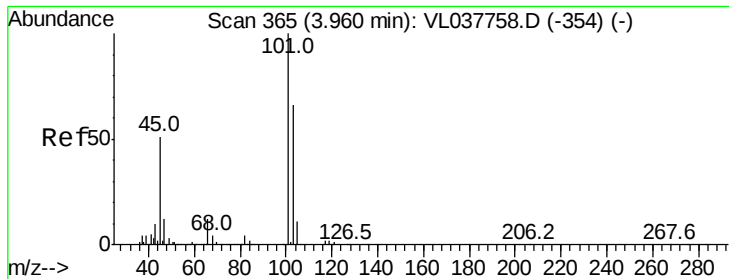
Reviewed By :Semsettin Yesilyurt 10/28/2021
Supervised By :Mahesh Dadoda 10/29/2021



#17
tert-Butyl alcohol
Concen: 0.488 ppbv m
RT: 4.31 min Scan# 475
Delta R.T. 0.03 min
Lab File: VL037920.D
Acq: 27 Oct 2021 17:42

Tgt Ion: 59 Resp: 59024
Ion Ratio Lower Upper
59 100
57 62.4 8.6 13.0#





#19

Isopropyl Alcohol

Concen: 116.357 ppbv

RT: 3.98 Instrument: MSVOA_1

Delta R.T. 0.01 min

Lab File: ClientSampleId:

Acq: 27 Oct 2021 17:42 FIRE-PUMP-ROOM-1A

Tot Ion:

Ion Ratio

45 100

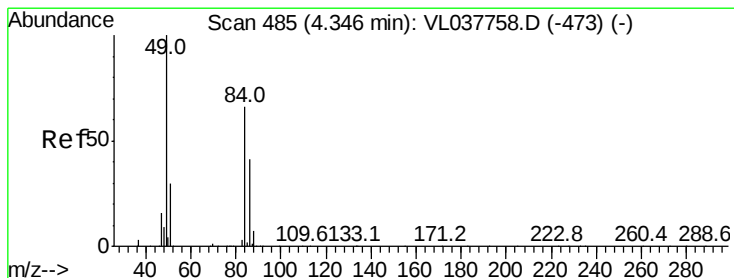
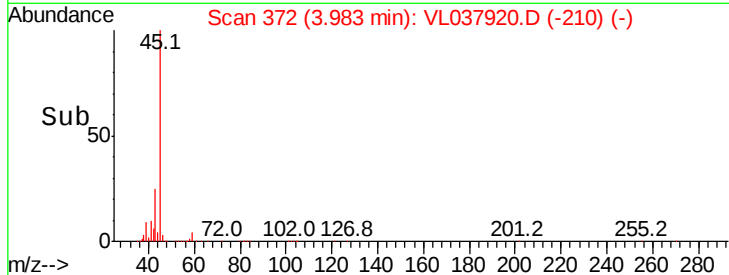
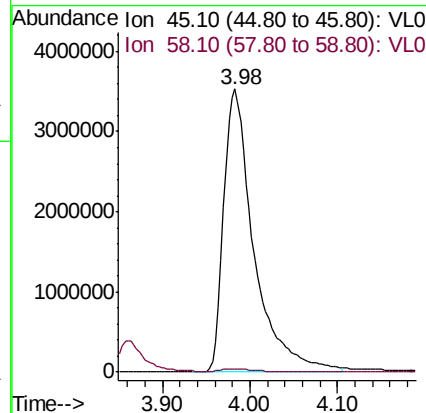
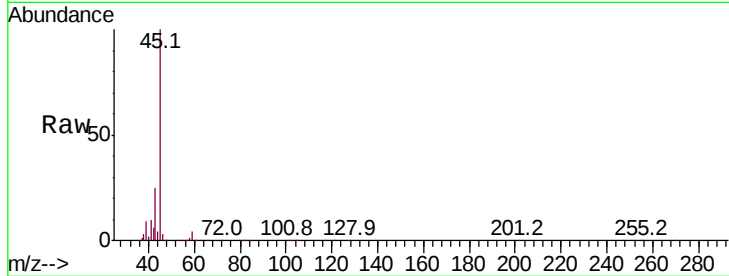
58 1.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 10/28/2021

Supervised By :Mahesh Dadoda 10/29/2021



#20

Methylene Chloride

Concen: 37.657 ppbv

RT: 4.36 min Scan# 489

Delta R.T. 0.01 min

Lab File: VL037920.D

Acq: 27 Oct 2021 17:42

Tgt Ion: 84 Resp: 2232403

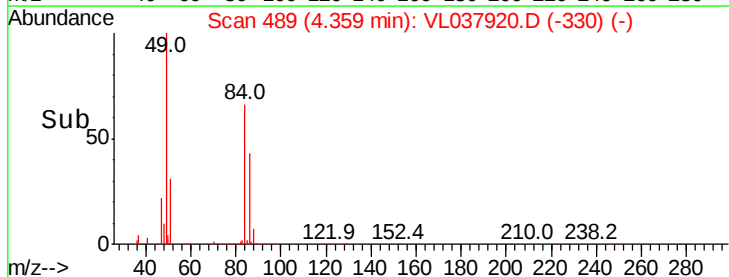
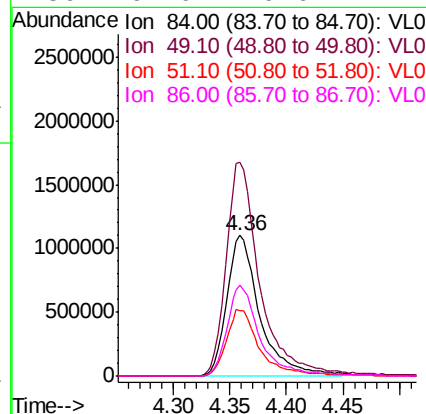
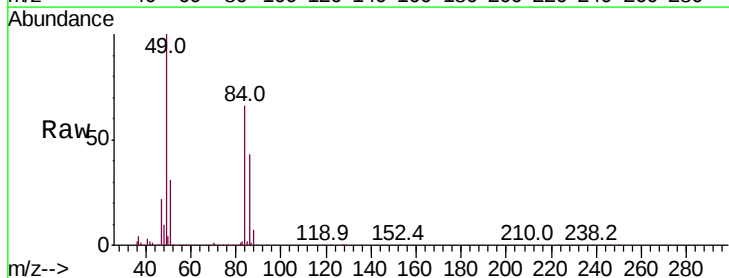
Ion Ratio Lower Upper

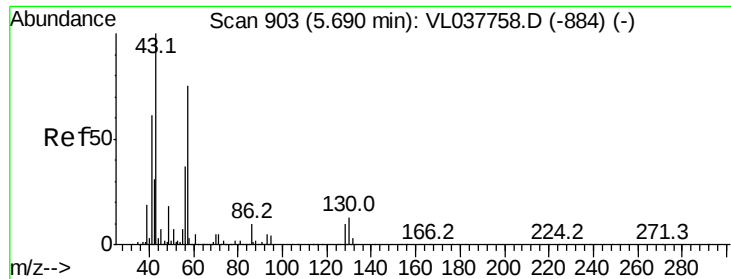
84 100

49 152.1 120.7 181.1

51 46.6 36.2 54.4

86 64.9 49.6 74.4



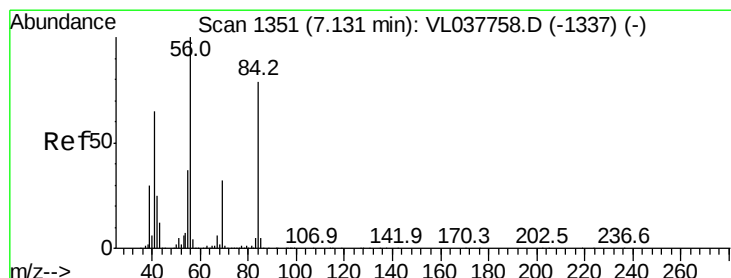
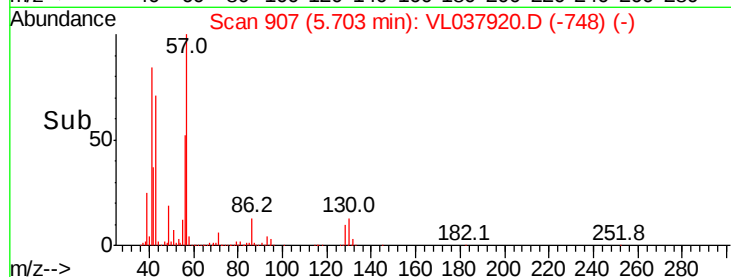
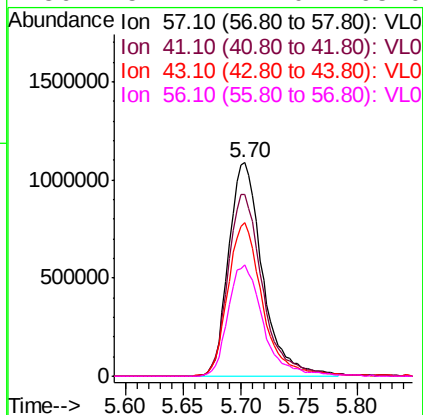
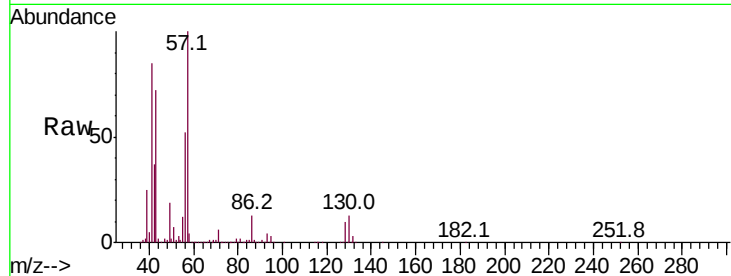


#26
Hexane
Concen: 13.571 ppbv
RT: 5.70
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 27 Oct 2021 17:42 FIRE-PUMP-ROOM-1A

Tot Ion: 57.10 (56.80 to 57.80): VL0
Ion Ratio: 57 100, 41 88.0, 43 73.0, 56 54.4, 42.0, 63.0

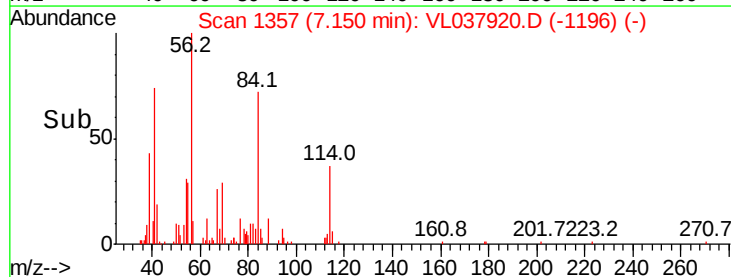
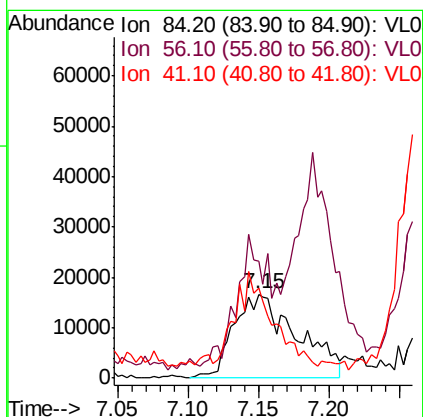
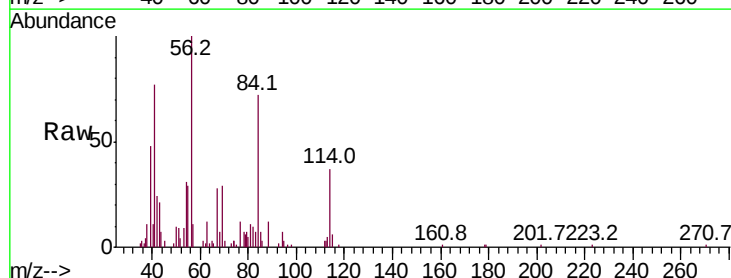
Manual Integrations
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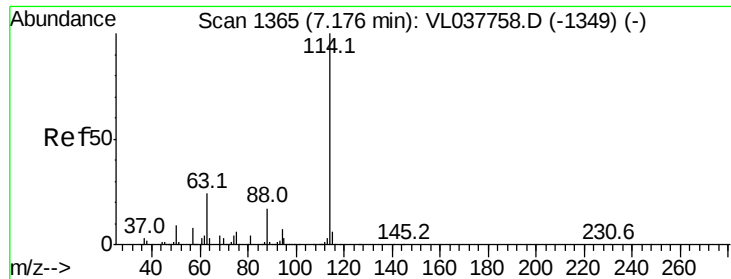
Reviewed By :Semsettin Yesilyurt 10/28/2021
Supervised By :Mahesh Dadoda 10/29/2021



#30
Cyclohexane
Concen: 0.379 ppbv m
RT: 7.15 min Scan# 1357
Delta R.T. 0.02 min
Lab File: VL037920.D
Acq: 27 Oct 2021 17:42

Tgt Ion: 84 Resp: 52071
Ion Ratio Lower Upper
84 100
56 0.0 113.0 169.4#
41 0.0 69.1 103.7#



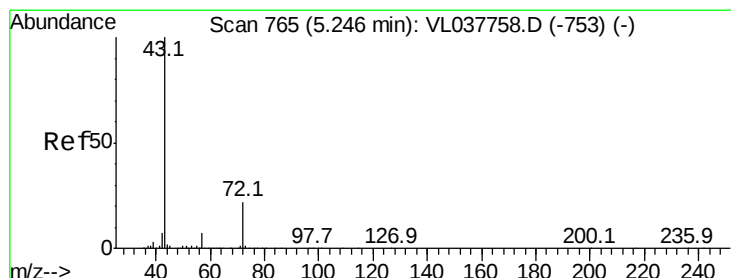
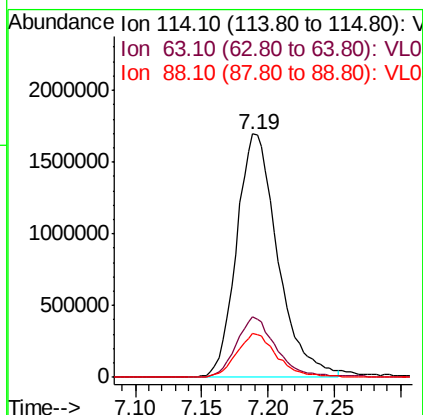
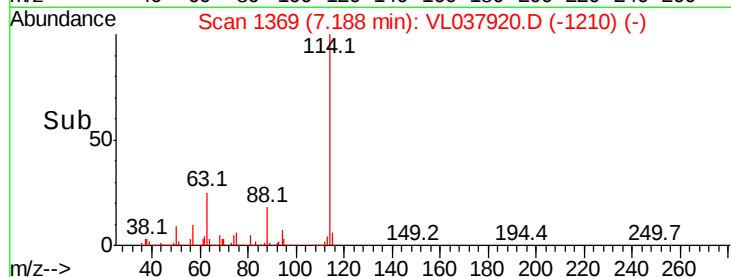
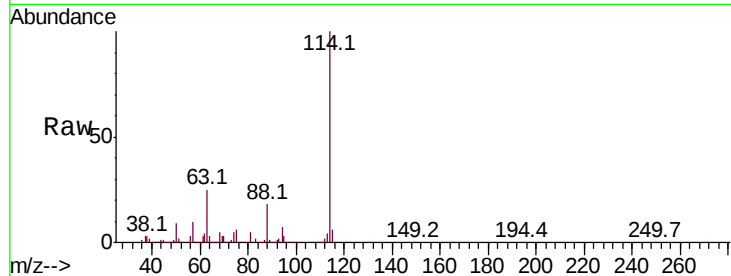


#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.19
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId:
 Acq: 27 Oct 2021 17:42

Tot Ion: 1
 Ion Ratio
 114 100
 63 24.
 88 18.

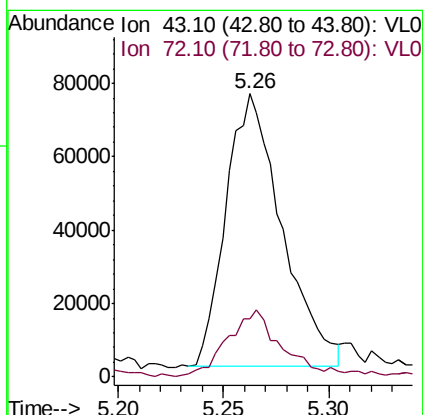
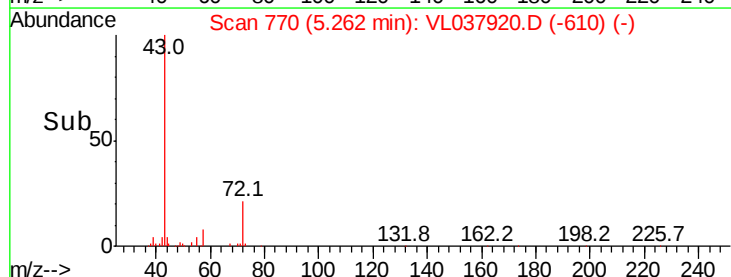
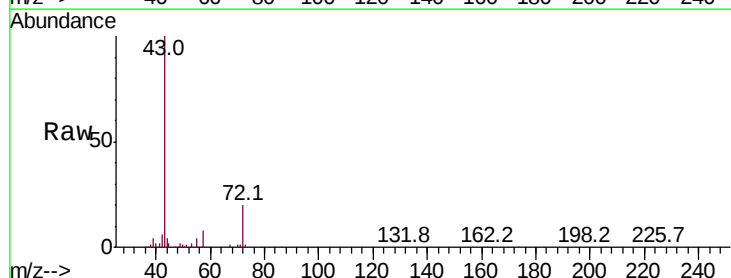
Manual Integrations
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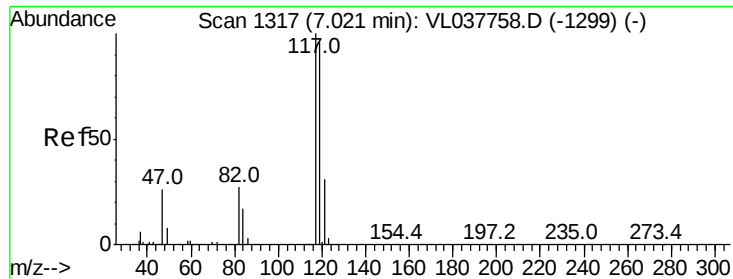
Reviewed By : Semsettin Yesilyurt 10/28/2021
 Supervised By : Mahesh Dadoda 10/29/2021



#34
 2-Butanone
 Concen: 0.920 ppbv
 RT: 5.26 min Scan# 770
 Delta R.T.: 0.02 min
 Lab File: VL037920.D
 Acq: 27 Oct 2021 17:42

Tgt Ion: 43 Resp: 136113
 Ion Ratio Lower Upper
 43 100
 72 25.0 18.2 27.2





#35

Carbon Tetrachloride

Concen: 0.066 ppbv m

RT: 7.03 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 27 Oct 2021 17:42 FIRE-PUMP-ROOM-1A

Tot Ion:1

Ion Rati

117 100

119 69.

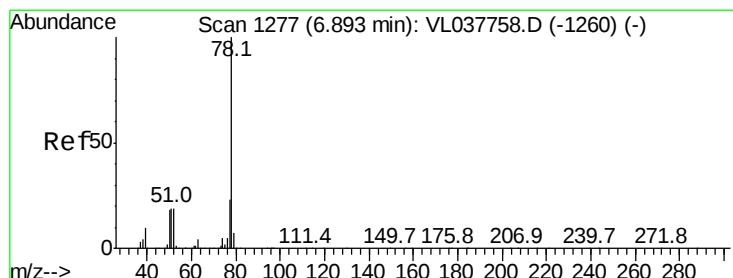
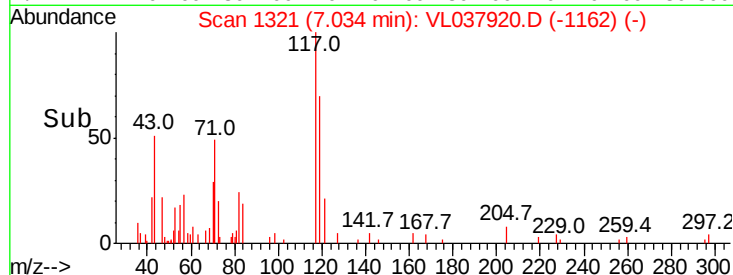
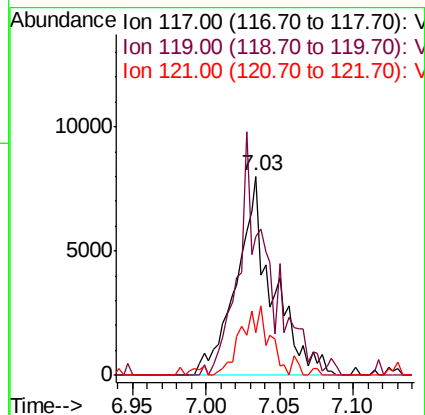
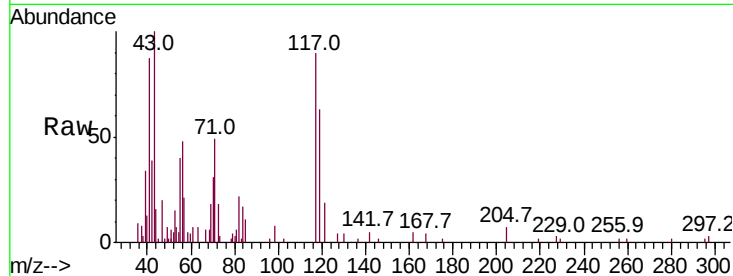
121 21.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/28/2021

Supervised By :Mahesh Dadoda 10/29/2021



#36

Benzene

Concen: 0.171 ppbv

RT: 6.90 min Scan# 1280

Delta R.T. 0.01 min

Lab File: VL037920.D

Acq: 27 Oct 2021 17:42

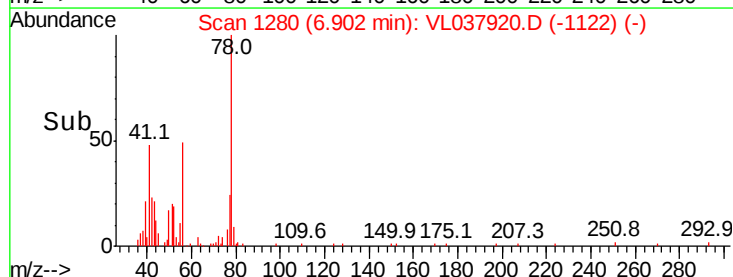
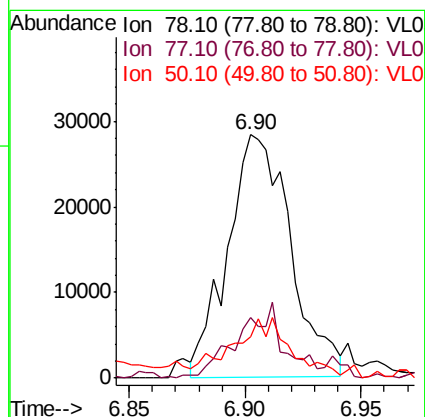
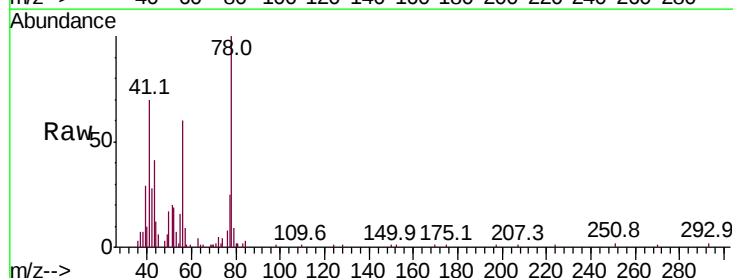
Tgt Ion: 78 Resp: 53384

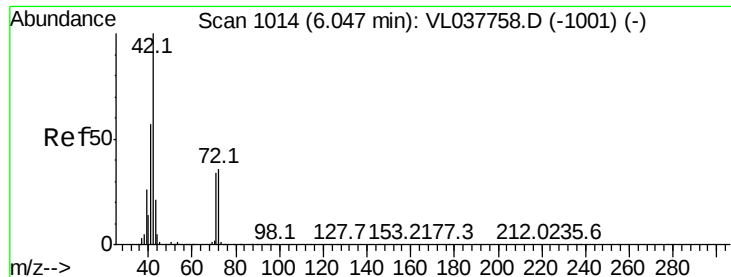
Ion Ratio Lower Upper

78 100

77 25.1 18.8 28.2

50 14.3 14.7 22.1#



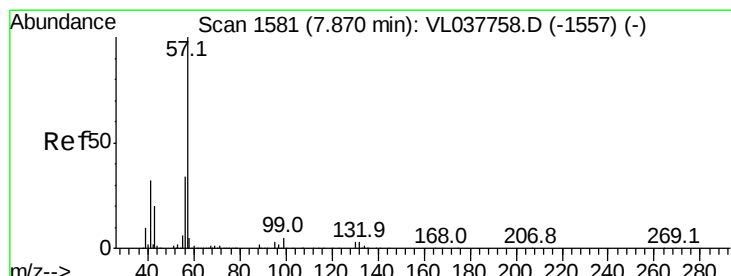
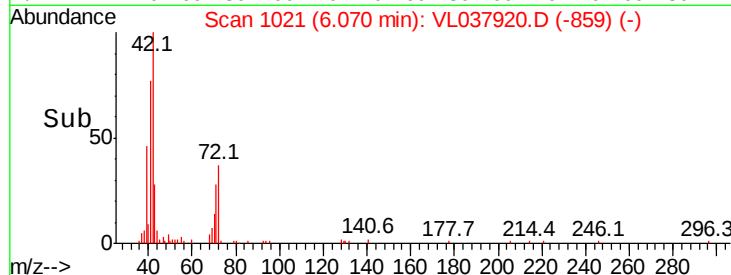
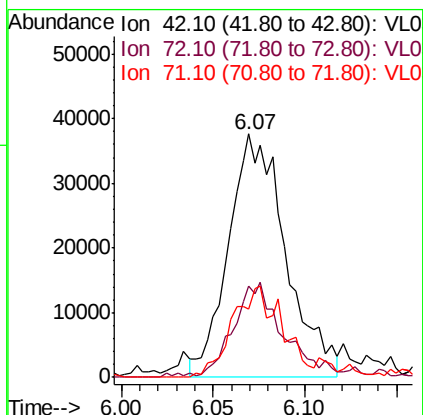
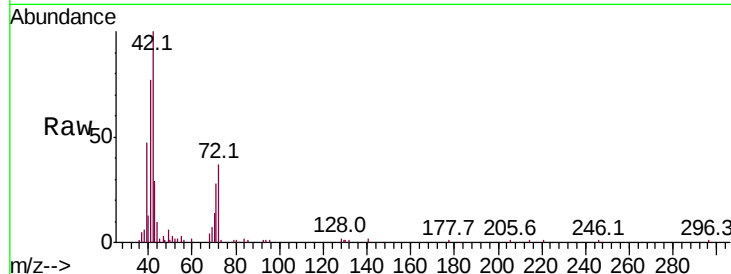


#41
Tetrahydrofuran
Concen: 1.130 ppbv m
RT: 6.07
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 27 Oct 2021 17:42
FIRE-PUMP-ROOM-1A

Tot Ion:
Ion Ratio
42 100
72 37.
71 35.

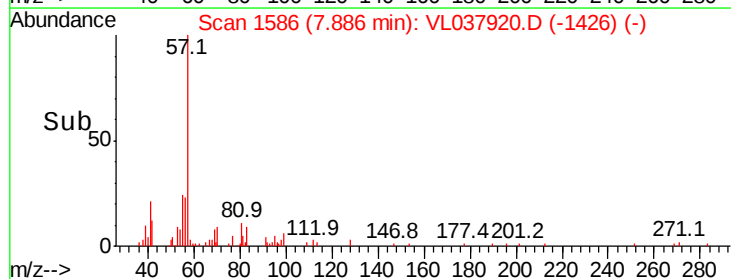
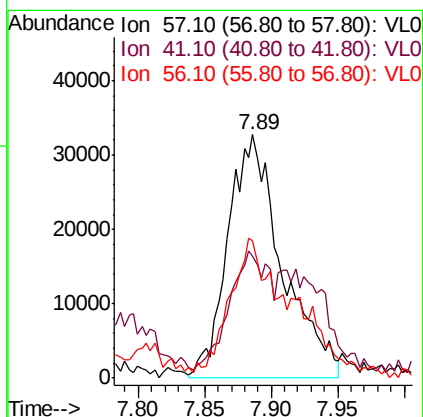
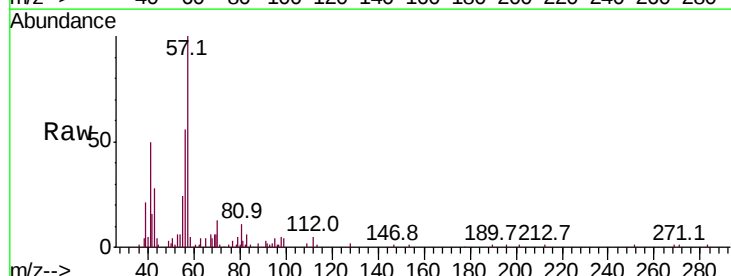
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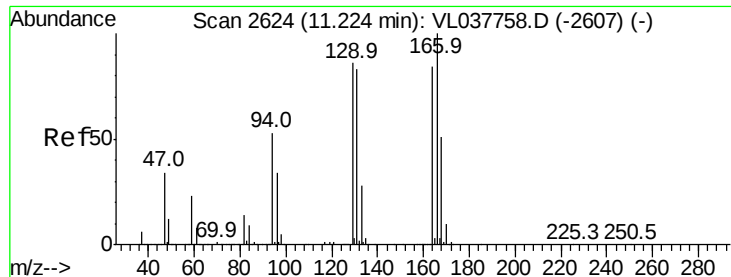
Reviewed By :Semsettin Yesilyurt 10/28/2021
Supervised By :Mahesh Dadoda 10/29/2021



#44
2,2,4-Trimethylpentane
Concen: 0.177 ppbv m
RT: 7.89 min Scan# 1586
Delta R.T.: 0.02 min
Lab File: VL037920.D
Acq: 27 Oct 2021 17:42

Tgt Ion: 57 Resp: 92853
Ion Ratio Lower Upper
57 100
41 75.1 25.6 38.4#
56 62.6 25.5 38.3#





#52

Tetrachloroethene

Concen: 0.058 ppbv m

RT: 11.24

Delta R.T. MSVOA_L

Lab File:

Acq: 27 Oct 2021 17:42

ClientSampleId :

FIRE-PUMP-ROOM-1A

Tot Ion:1

Ion Ratio

164 100

166 127.

129 92.

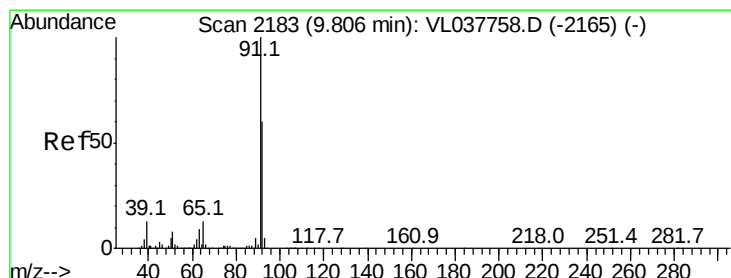
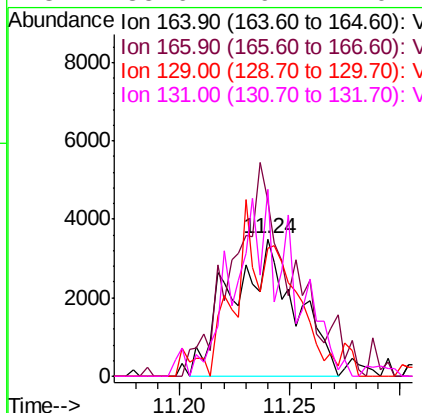
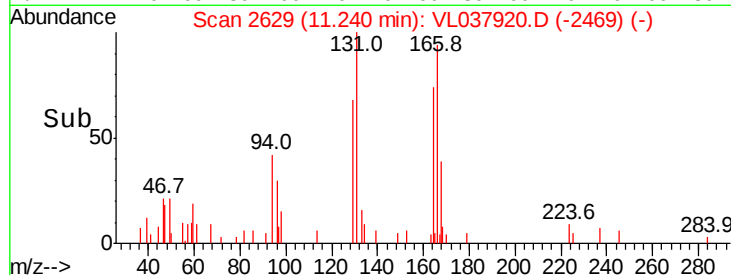
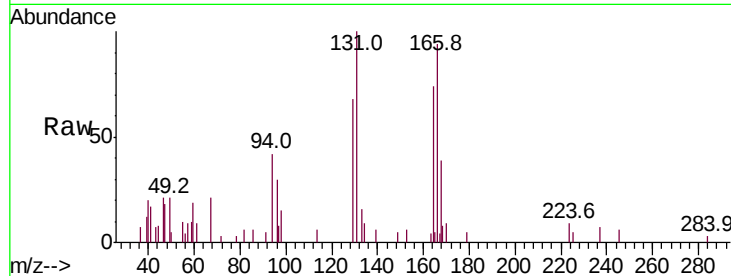
131 135.6 79.4 119.2#

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 10/28/2021

Supervised By :Mahesh Dadoda 10/29/2021



#53

Toluene

Concen: 0.839 ppbv

RT: 9.82 min Scan# 2188

Delta R.T. 0.02 min

Lab File: VL037920.D

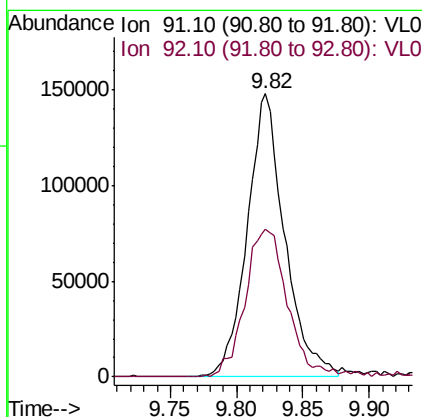
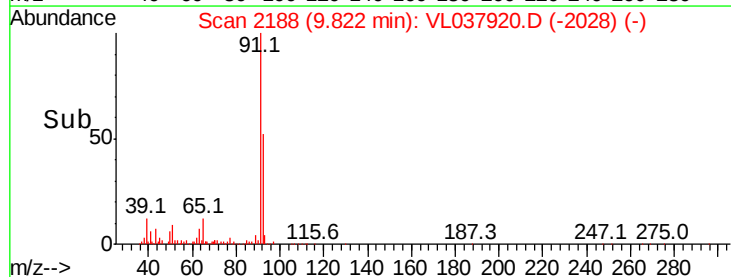
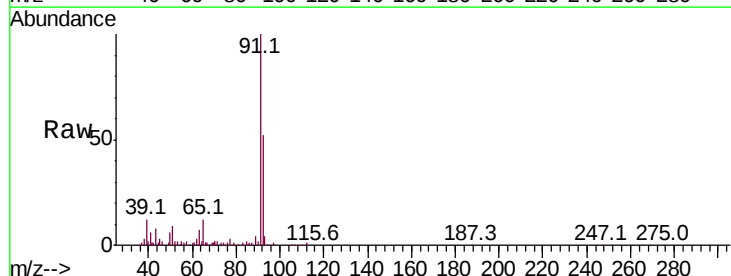
Acq: 27 Oct 2021 17:42

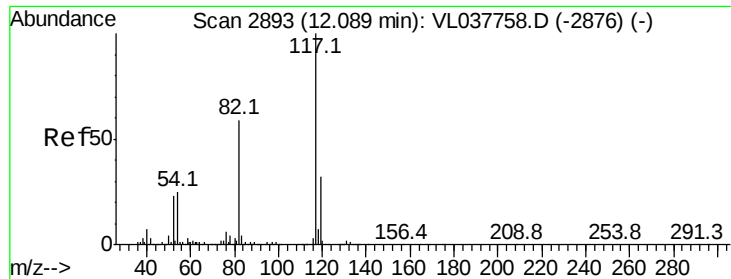
Tgt Ion: 91 Resp: 290991

Ion Ratio Lower Upper

91 100

92 59.6 48.4 72.6



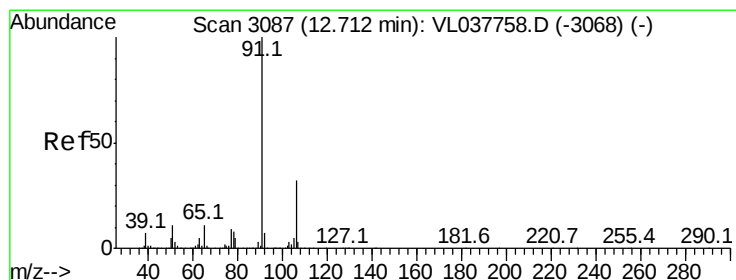
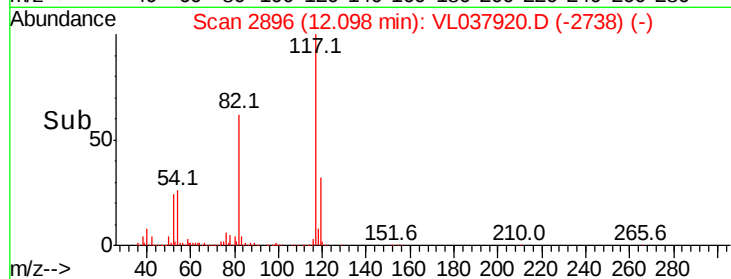
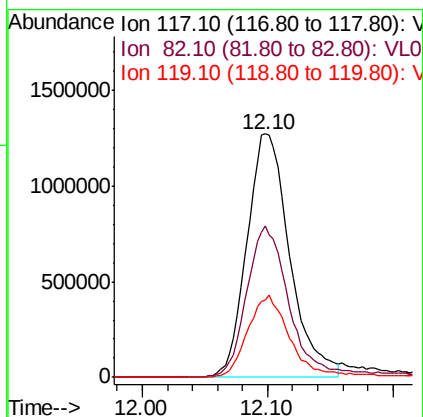
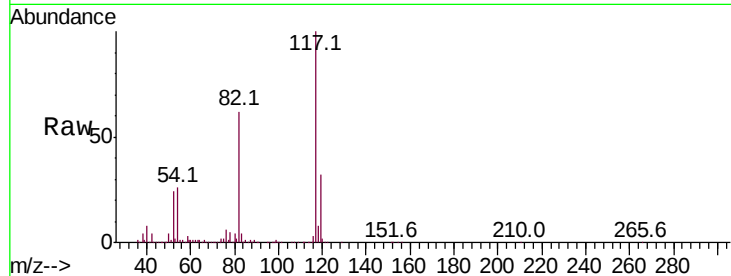


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.10
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 27 Oct 2021 17:42
FIRE-PUMP-ROOM-1A

Tot Ion: 1
Ion Ratio
117 100
82 65.
119 34.

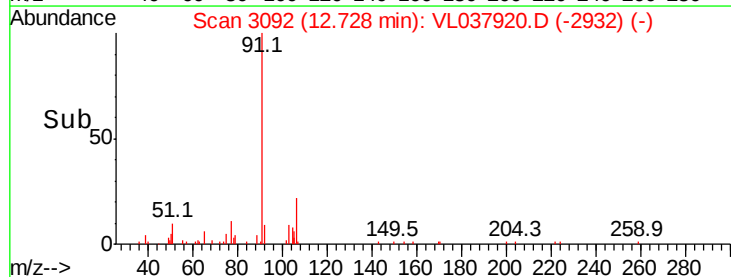
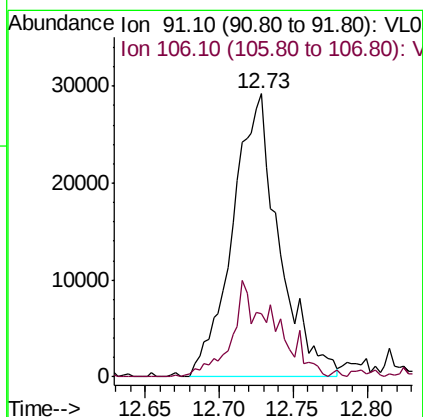
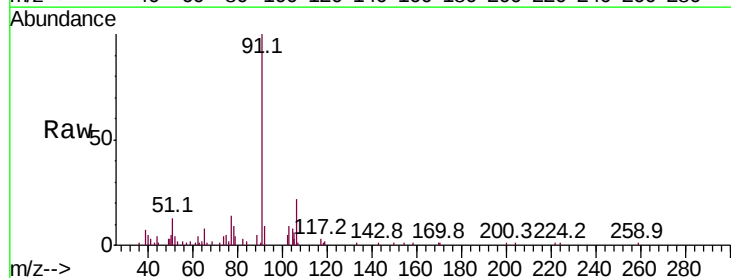
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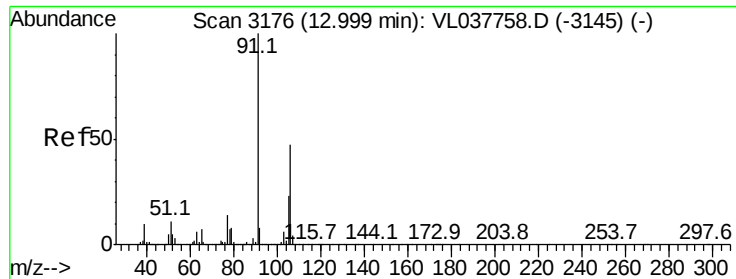
Reviewed By :Semsettin Yesilyurt 10/28/2021
Supervised By :Mahesh Dadoda 10/29/2021



#58
Ethyl Benzene
Concen: 0.158 ppbv m
RT: 12.73 min Scan# 3092
Delta R.T. 0.02 min
Lab File: VL037920.D
Acq: 27 Oct 2021 17:42

Tgt Ion: 91 Resp: 63949
Ion Ratio Lower Upper
91 100
106 22.3 25.3 37.9#



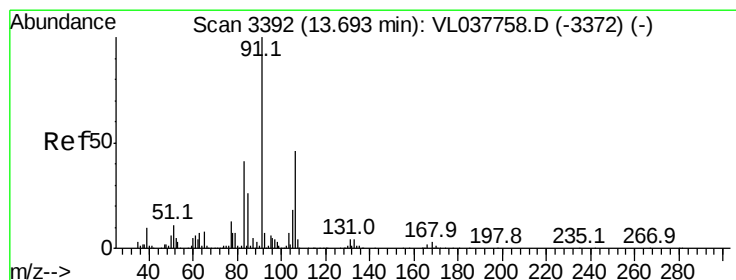
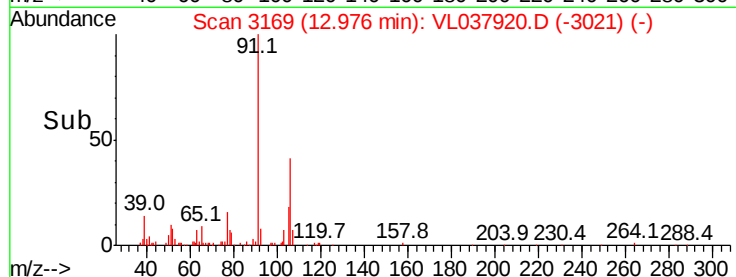
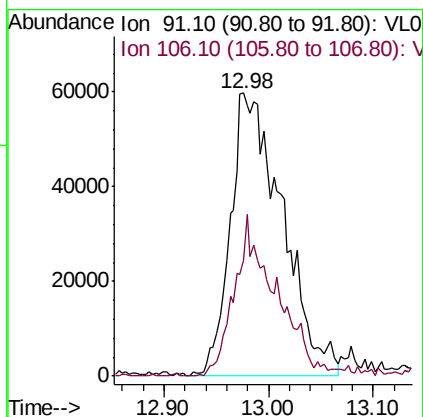
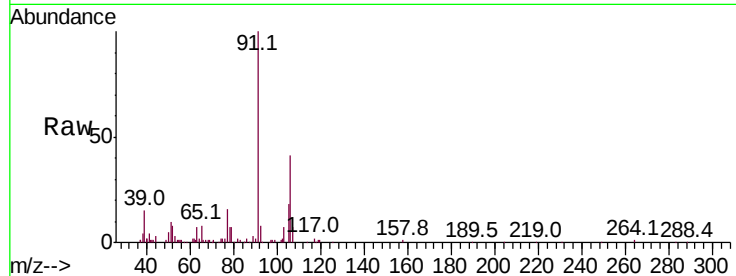


#59
m/p-Xylene
Concen: 0.594 ppbv m
RT: 12.98
Instrument: MSVOA_1
Delta R.T.
Lab File: ClientSampleId:
Acq: 27 Oct 2021 17:42 FIRE-PUMP-ROOM-1A

Tot Ion:
Ion Ratio
91 100
106 0.

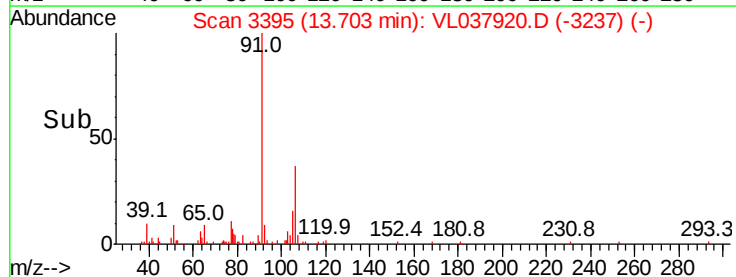
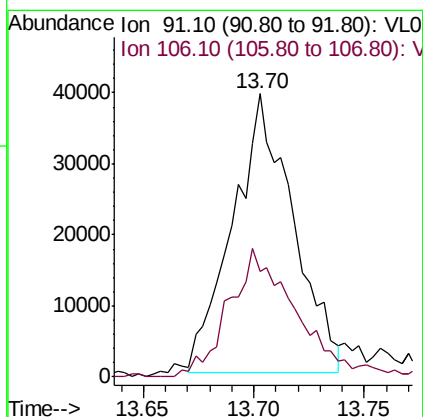
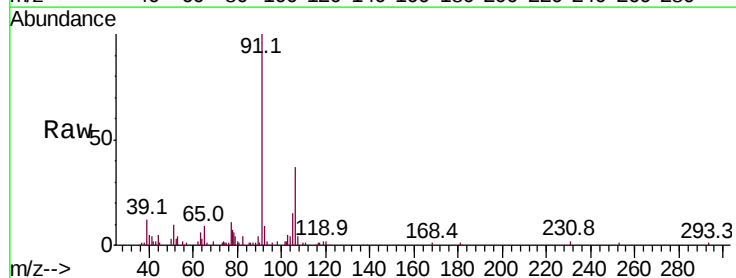
Manual Integrations
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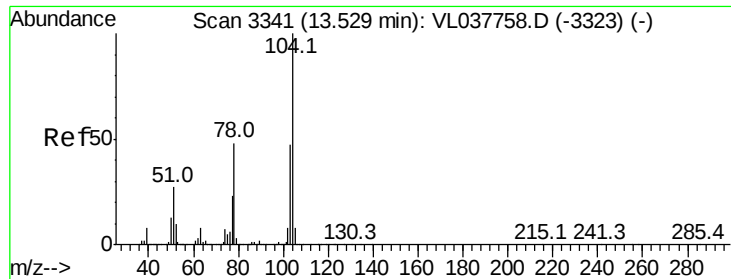
Reviewed By :Semsettin Yesilyurt 10/28/2021
Supervised By :Mahesh Dadoda 10/29/2021



#60
o-Xylene
Concen: 0.224 ppbv
RT: 13.70 min Scan# 3395
Delta R.T. 0.01 min
Lab File: VL037920.D
Acq: 27 Oct 2021 17:42

Tgt Ion: 91 Resp: 74763
Ion Ratio Lower Upper
91 100
106 52.5 23.5 70.5



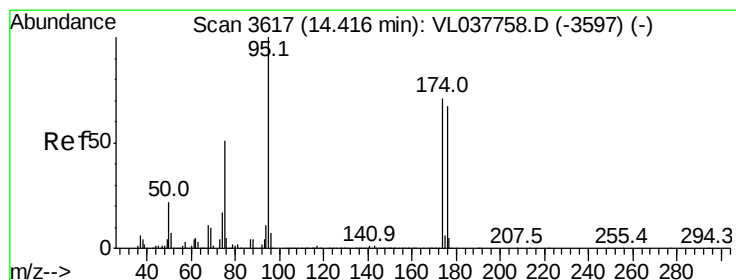
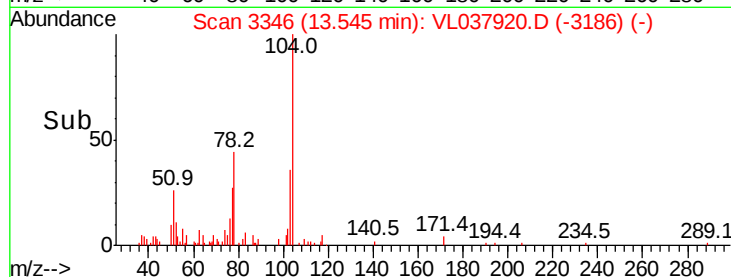
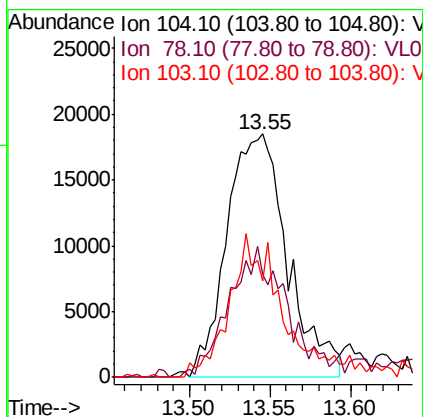
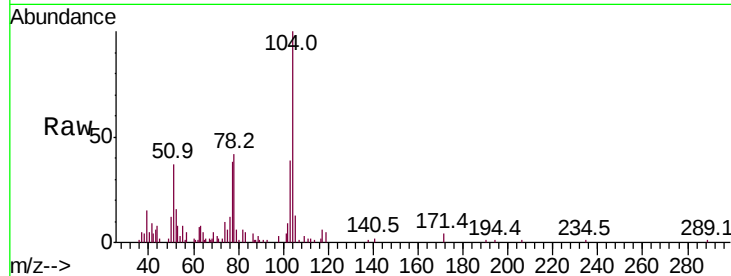


#61
Stvrene
Concen: 0.299 ppbv m
RT: 13.55
Instrument: MSVOA_1
Delta R.T.:
ClientSampleId:
Lab File: FIRE-PUMP-ROOM-1A
Acq: 27 Oct 2021 17:42

Tot Ion: 1
Ion Ratio
104 100
78 59.
103 52.

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



#68
1-Bromo-4-Fluorobenzene
Concen: 10.401 ppbv
RT: 14.43 min Scan# 3620
Delta R.T.: 0.01 min
Lab File: VL037920.D
Acq: 27 Oct 2021 17:42

Tgt Ion: 95 Resp: 2198319
Ion Ratio Lower Upper
95 100
174 73.6 57.8 86.6
175 5.4 4.7 7.1

