

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL050922\
 Data File : VL039004.D
 Acq On : 10 May 2022 2:20
 Operator : SY/AP
 Sample : N2696-02DL 5X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA L
 ClientSampleId :
 SV2DL

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 05/11/2022
 Supervised By : Mahesh Dadoda 05/11/2022

Quant Time: May 10 08:07:02 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	1082786	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.15	114	3051354	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.05	117	2748228	10.00	ppbv	-0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.38	95	2019514	9.28	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	92.80%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	3.04	85	19994m	0.118	ppbv
9) Propene	3.00	41	504978	8.606	ppbv 95
10) Heptane	8.10	43	52517	0.365	ppbv 95
13) Ethanol	3.58	45	510685	122.987	ppbv 88
15) Acetone	3.84	43	900987	8.821	ppbv 94
17) tert-Butyl alcohol	4.28	59	137330m	1.749	ppbv
19) Isopropyl Alcohol	3.95	45	96449m	1.986	ppbv
20) Methylene Chloride	4.33	84	42094	1.093	ppbv 90
25) Ethyl Acetate	5.66	43	176808	0.723	ppbv 97
27) Carbon Disulfide	4.54	76	31515	0.305	ppbv # 85
30) Cyclohexane	7.11	84	18016	0.198	ppbv # 23
32) 1,1,1-Trichloroethane	6.49	97	2669867	15.194	ppbv 97
34) 2-Butanone	5.23	43	468741	3.011	ppbv 96
36) Benzene	6.87	78	92662	0.355	ppbv 93
41) Tetrahydrofuran	6.03	42	229000	2.189	ppbv 97
44) 2,2,4-Trimethylpentane	7.84	57	115724m	0.253	ppbv
50) 4-Methyl-2-Pentanone	8.73	43	160472m	0.588	ppbv
51) 2-Hexanone	10.12	43	43447m	0.218	ppbv
52) Tetrachloroethene	11.19	164	398161	4.267	ppbv 91
53) Toluene	9.77	91	443222	1.514	ppbv 99
58) Ethyl Benzene	12.67	91	439205	1.110	ppbv 98
59) m/p-Xylene	12.93	91	1664597	4.930	ppbv 92
60) o-Xylene	13.65	91	844454	2.657	ppbv 97
62) Isopropylbenzene	14.63	105	83397m	0.179	ppbv
64) n-propylbenzene	15.53	120	59245m	0.527	ppbv
67) sec-Butylbenzene	17.25	105	58661m	0.101	ppbv
72) 4-Ethyltoluene	15.80	105	287777m	0.795	ppbv
73) 1,3,5-Trimethylbenzene	15.96	105	334915	1.027	ppbv 99
74) 1,2,4-Trimethylbenzene	16.73	105	778423	2.181	ppbv # 65

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

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Data File : VL039004.D
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Operator : SY/AP
Sample : N2696-02DL 5X
Misc : 400mL/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SV2DL

Manual Integrations
APPROVED

Quant Time: May 10 08:07:02 2022

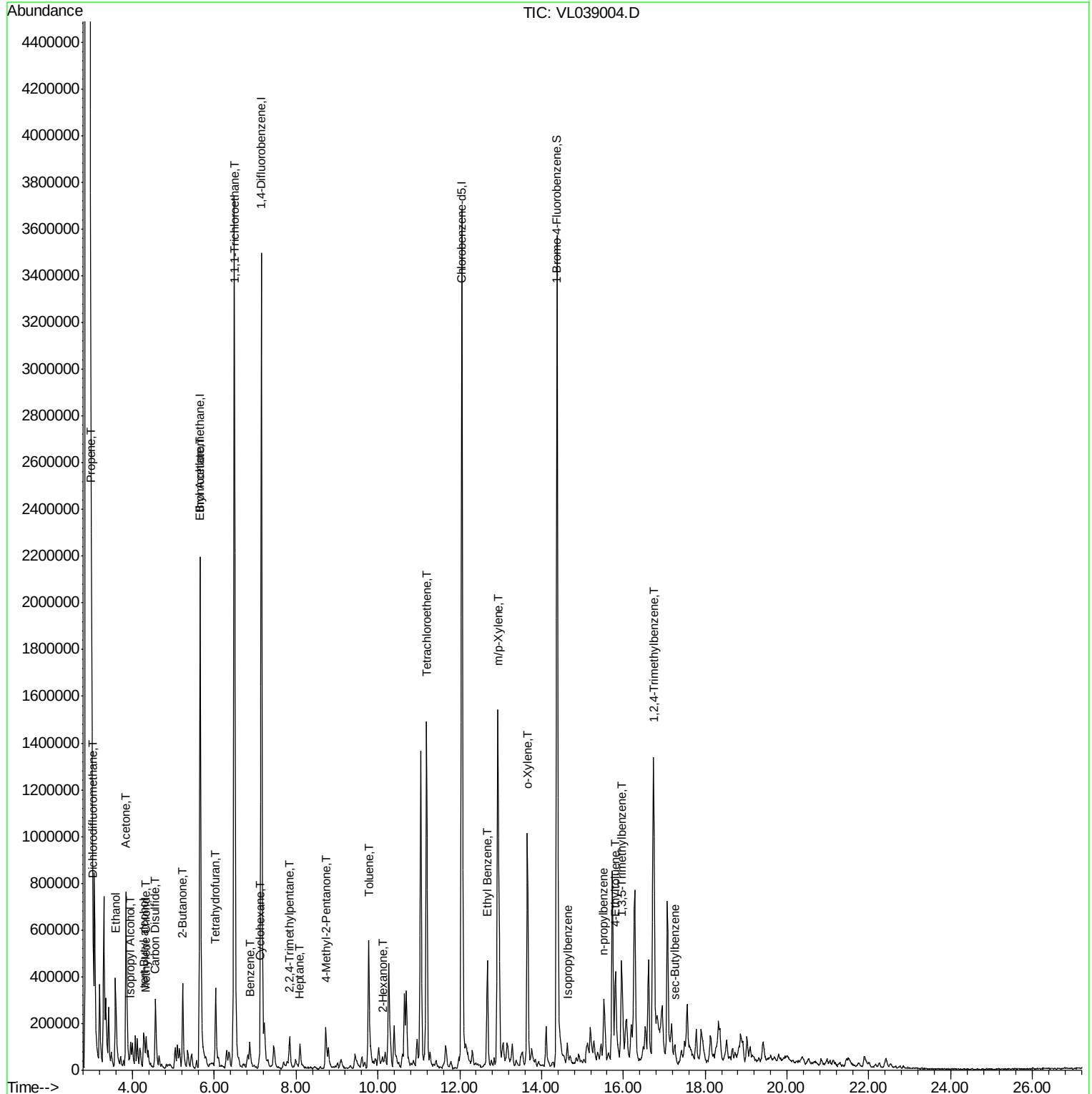
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL050522

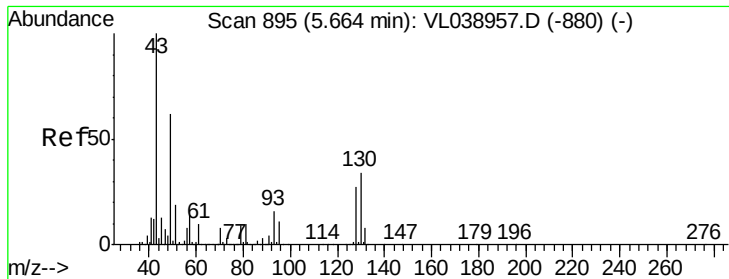
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:

QLast Update : Thu May 05 10:12:15 2022

Response via : Initial Calibration

Reviewed By :Semsettin Yesilyurt 05/11/2022
Supervised By :Mahesh Dadoda 05/11/2022





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: SV2DL

Acq: 10 May 2022 2:20

Tot Ion:

Ion Ratio

49 100

128 54.

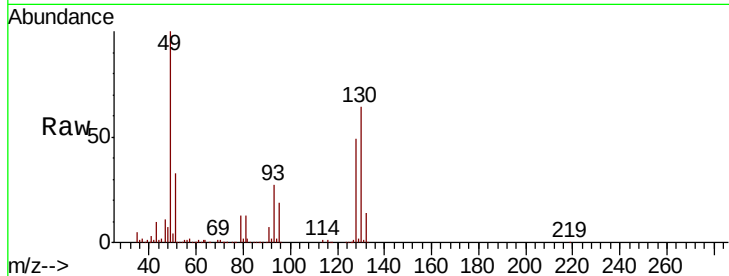
130 67.

Manual Integrations

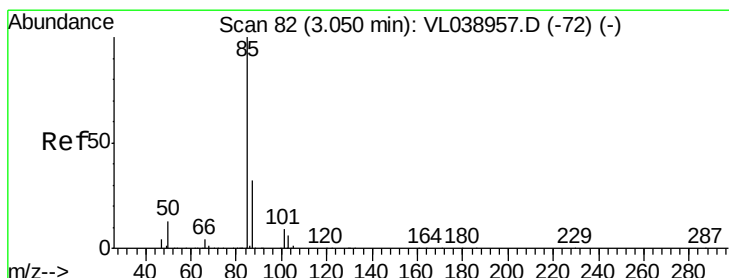
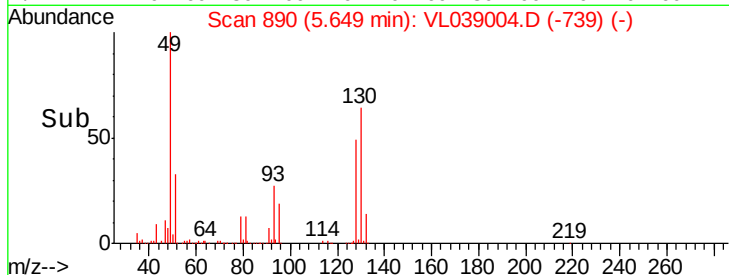
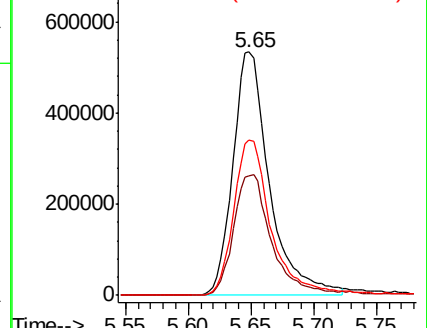
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Reviewed By :Semsettin Yesilyurt 05/11/2022

Supervised By :Mahesh Dadoda 05/11/2022



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: 0.118 ppbv m

RT: 3.04 min Scan# 79

Delta R.T. -0.01 min

Lab File: VL039004.D

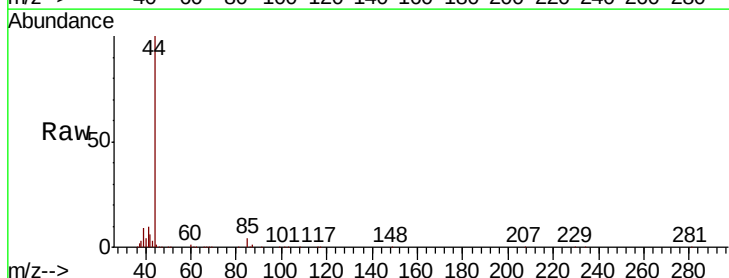
Acq: 10 May 2022 2:20

Tgt Ion: 85 Resp: 19994

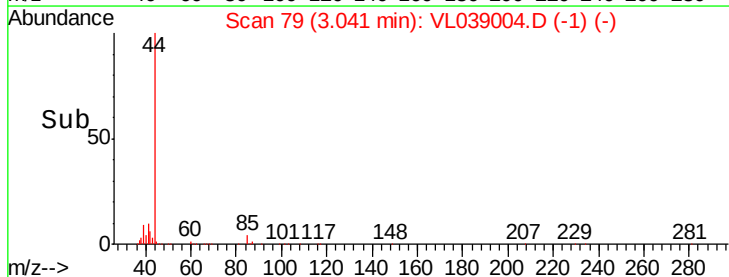
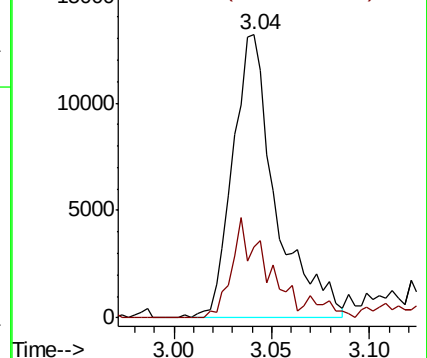
Ion Ratio Lower Upper

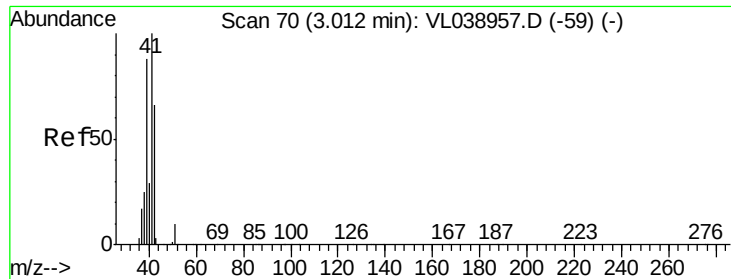
85 100

87 25.1 25.7 38.5#



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



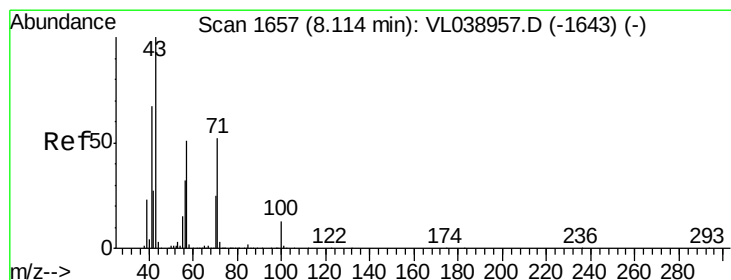
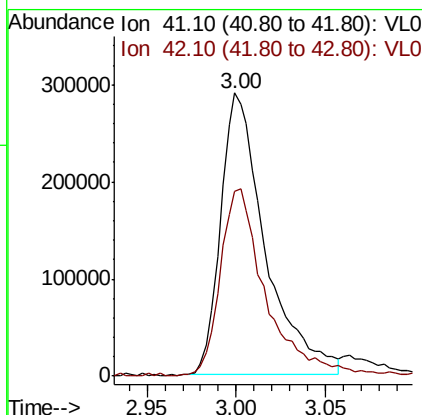
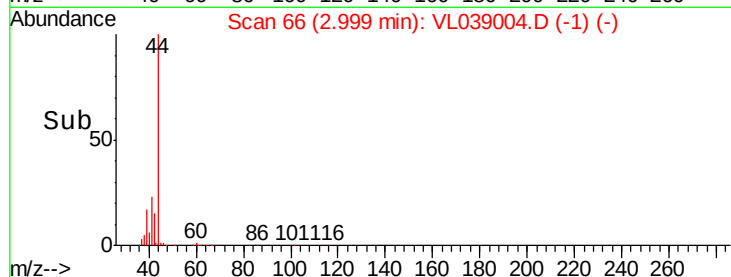
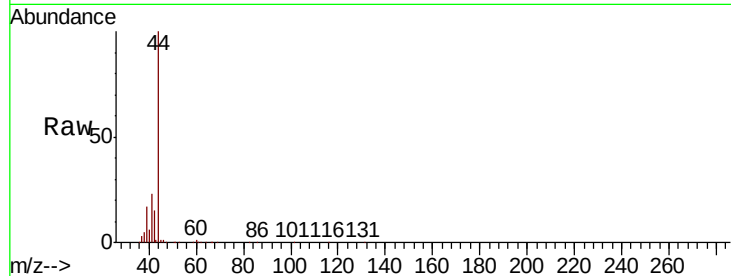


#9
 Propene
 Concen: 8.606 ppbv
 RT: 3.00
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 SV2DL
 Acq: 10 May 2022 2:20

Tot Ion:
 Ion Ratio
 41 100
 42 68.

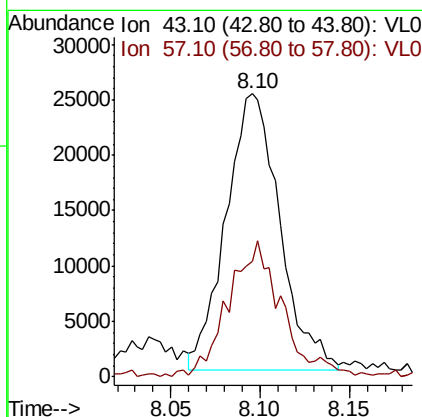
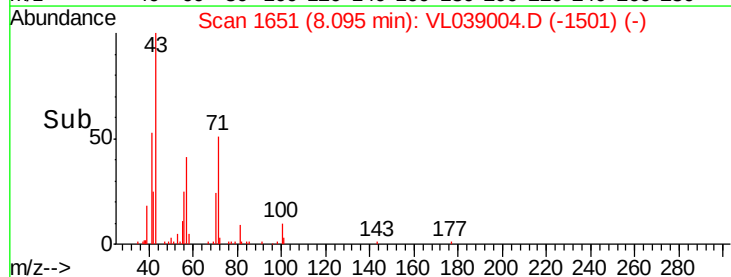
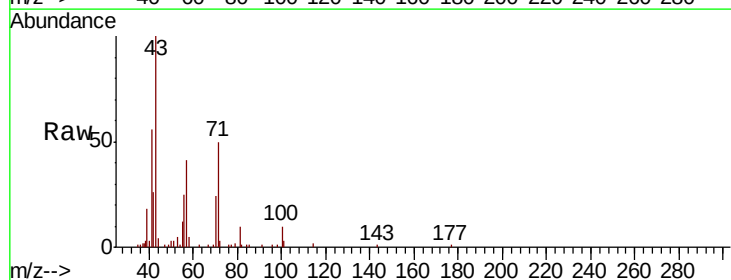
Manual Integrations
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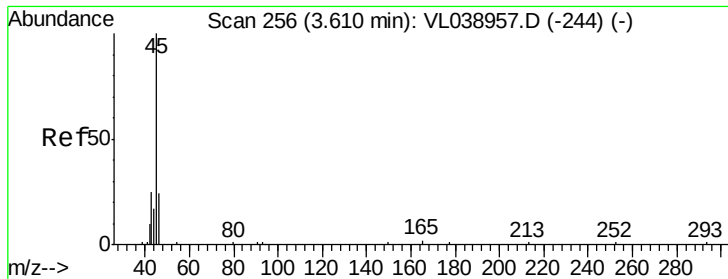
Reviewed By :Semsettin Yesilyurt 05/11/2022
 Supervised By :Mahesh Dadoda 05/11/2022



#10
 Heptane
 Concen: 0.365 ppbv
 RT: 8.10 min Scan# 1651
 Delta R.T. -0.02 min
 Lab File: VL039004.D
 Acq: 10 May 2022 2:20

Tgt Ion: 43 Resp: 52517
 Ion Ratio Lower Upper
 43 100
 57 47.0 40.5 60.7



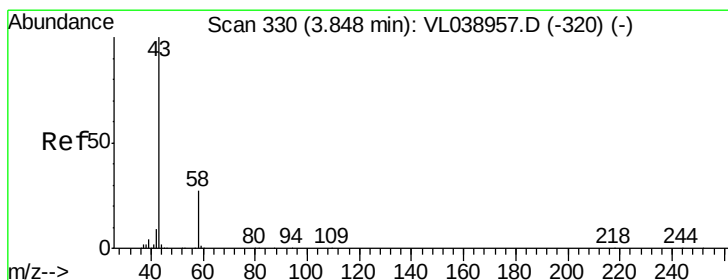
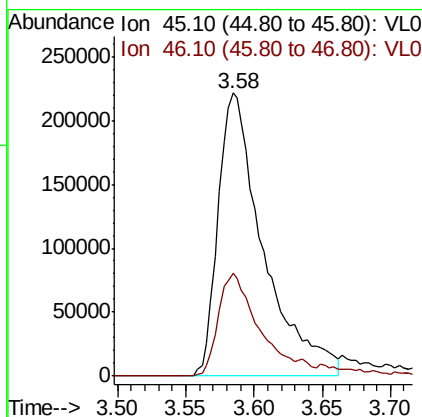
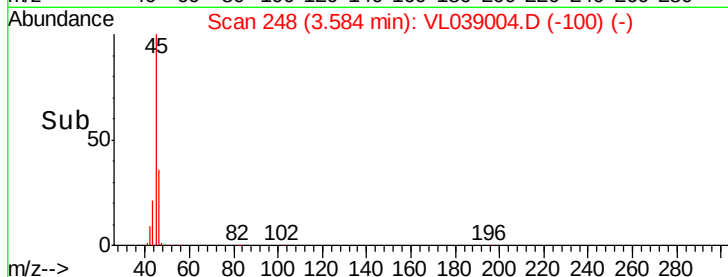
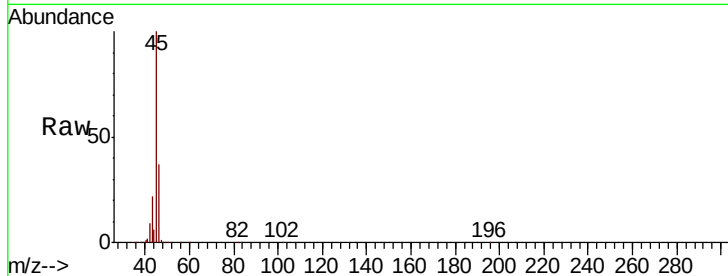


#13
Ethanol
Concen: 122.987 ppbv
RT: 3.58
Instrument : MSVOA_L
Delta R.T. :
Lab File: ClientSampleId :
SV2DL
Acq: 10 May 2022 2:20

Tot Ion:
Ion Ratio
45 100
46 37.

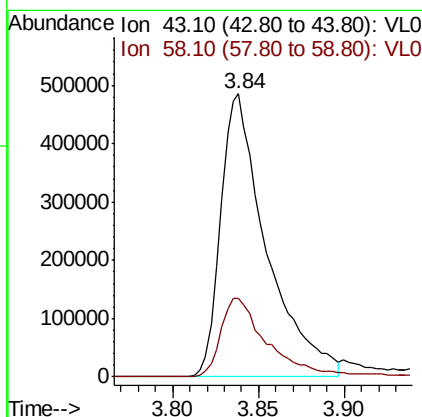
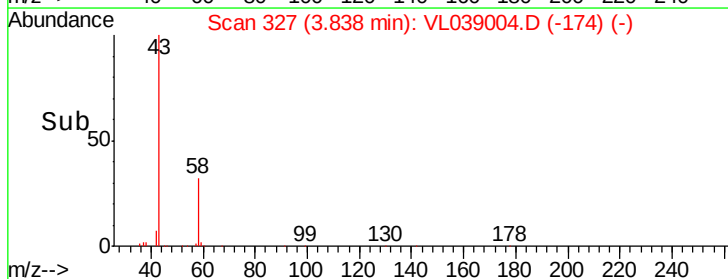
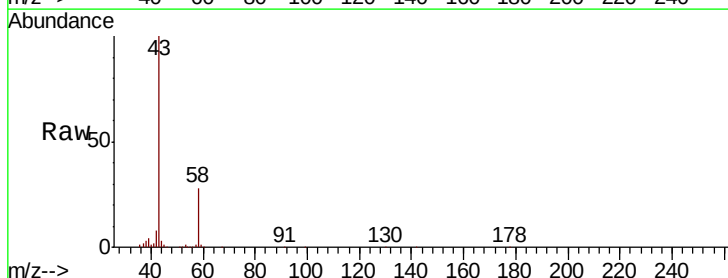
Manual Integrations
APPROVED

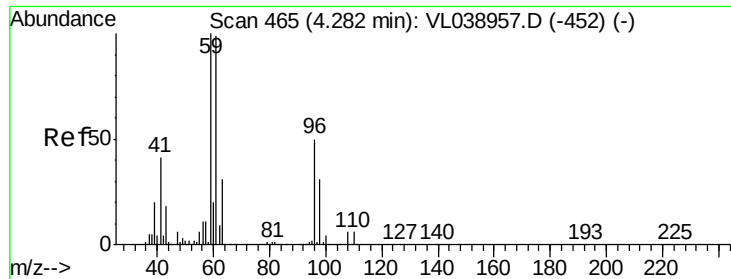
Reviewed By :Semsettin Yesilyurt 05/11/2022
Supervised By :Mahesh Dadoda 05/11/2022



#15
Acetone
Concen: 8.821 ppbv
RT: 3.84 min Scan# 327
Delta R.T. -0.01 min
Lab File: VL039004.D
Acq: 10 May 2022 2:20

Tgt Ion: 43 Resp: 900987
Ion Ratio Lower Upper
43 100
58 29.6 21.3 31.9



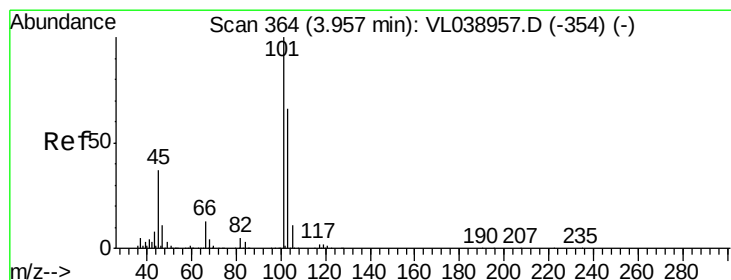
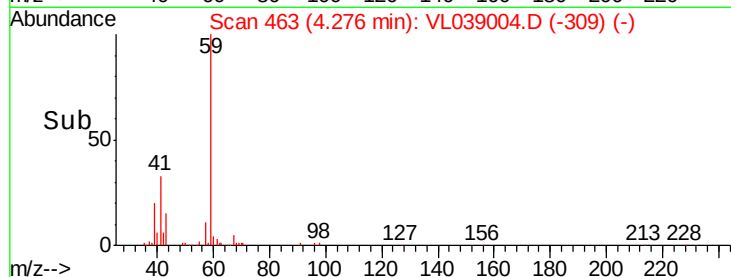
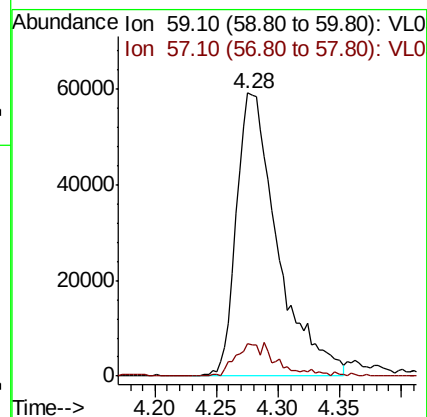
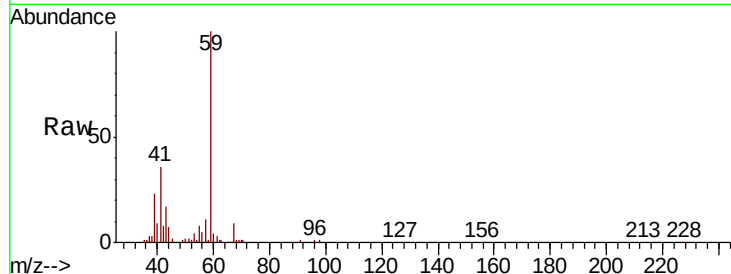


#17
tert-Butyl alcohol
Concen: 1.749 ppbv m
RT: 4.28
Instrument: MSVOA_L
Delta R.T.:
Lab File: ClientSampleId :
SV2DL
Acq: 10 May 2022 2:20

Tot Ion:
Ion Ratio
59 100
57 12.

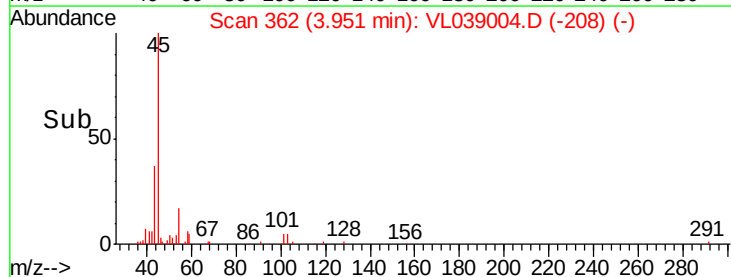
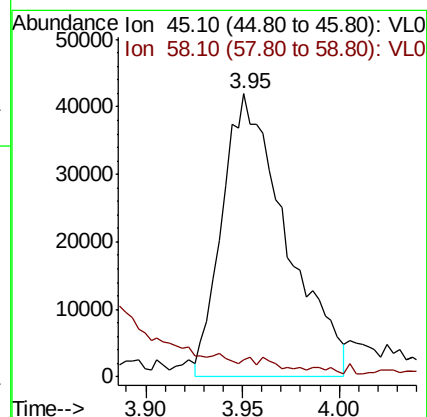
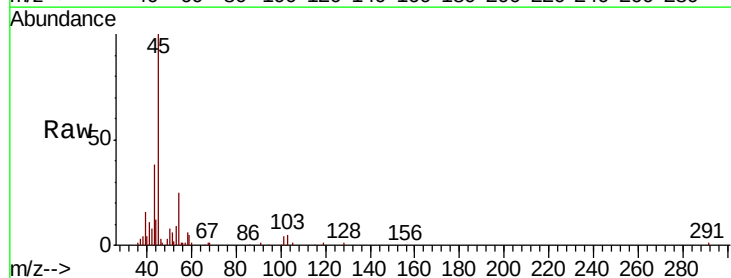
Manual Integrations
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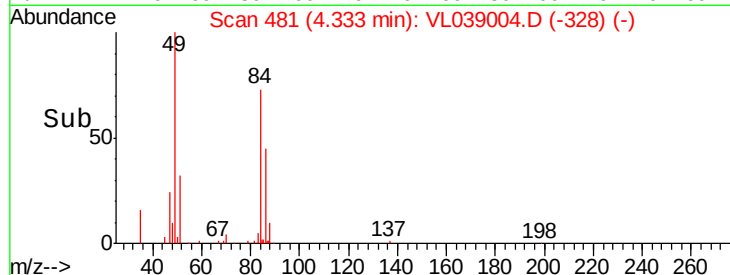
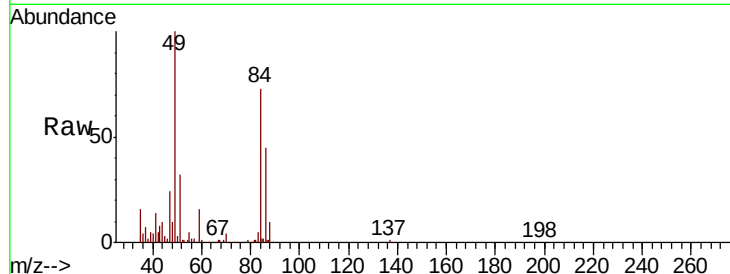
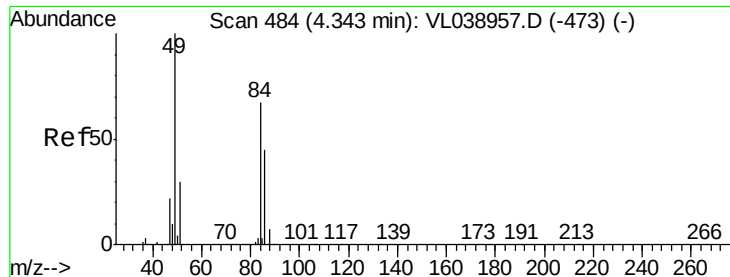
Reviewed By :Semsettin Yesilyurt 05/11/2022
Supervised By :Mahesh Dadoda 05/11/2022



#19
Isopropyl Alcohol
Concen: 1.986 ppbv m
RT: 3.95 min Scan# 362
Delta R.T. -0.01 min
Lab File: VL039004.D
Acq: 10 May 2022 2:20

Tgt Ion: 45 Resp: 96449
Ion Ratio Lower Upper
45 100
58 0.0 1.4 2.2#



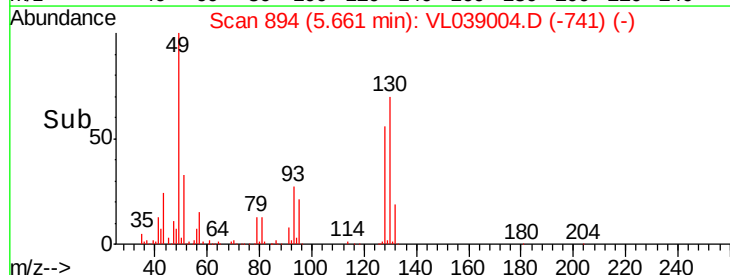
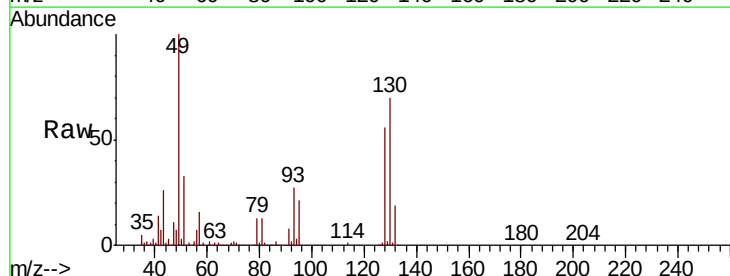
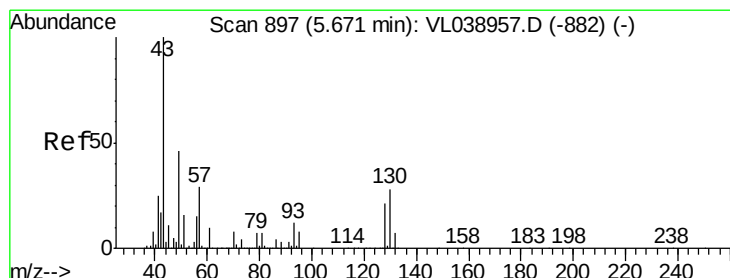
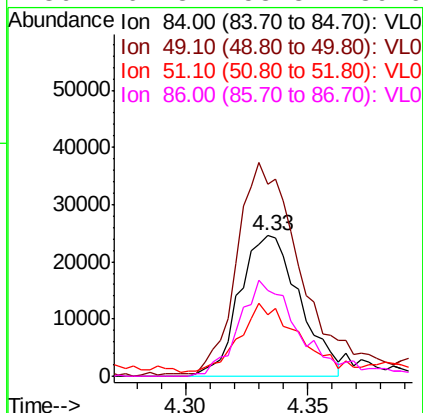


#20
Methvlene Chloride
Concen: 1.093 ppbv
RT: 4.33
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
SV2DL
Acq: 10 May 2022 2:20

Tot Ion:
Ion Ratio
84 100
49 135.
51 39.
86 61.3 53.8 80.6

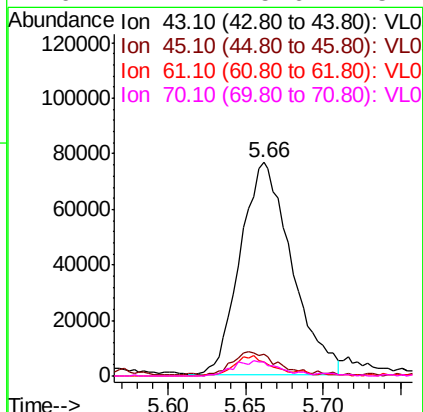
Manual Integrations
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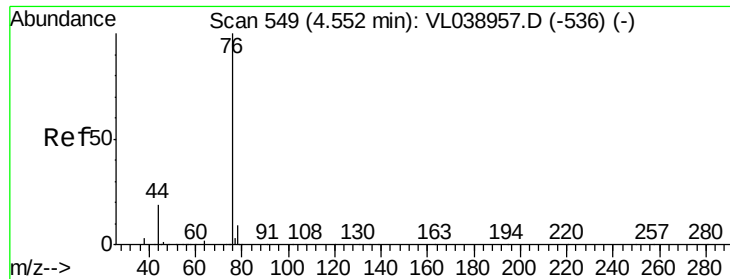
Reviewed By :Semsettin Yesilyurt 05/11/2022
Supervised By :Mahesh Dadoda 05/11/2022



#25
Ethyl Acetate
Concen: 0.723 ppbv
RT: 5.66 min Scan# 894
Delta R.T. -0.01 min
Lab File: VL039004.D
Acq: 10 May 2022 2:20

Tgt Ion: 43 Resp: 176808
Ion Ratio Lower Upper
43 100
45 11.6 8.1 12.1
61 7.8 7.8 11.6
70 7.1 5.6 8.4



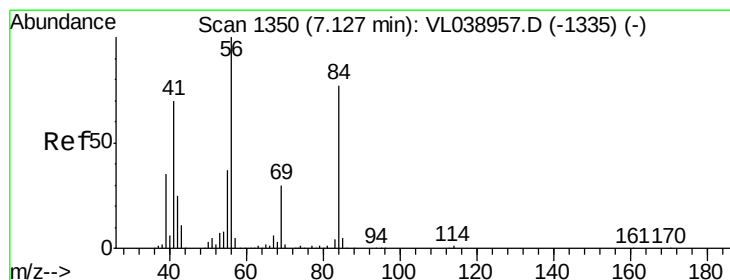
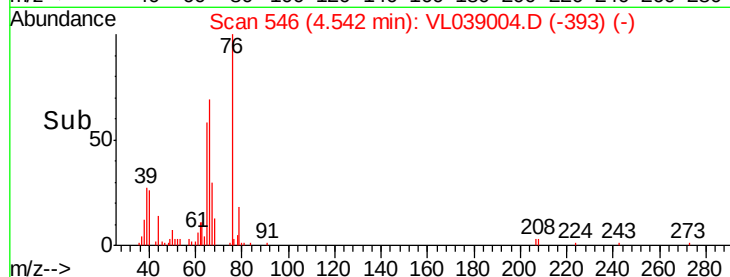
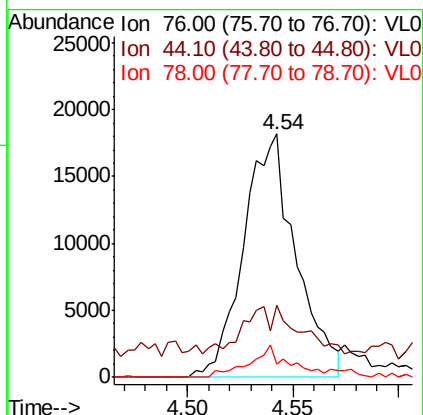
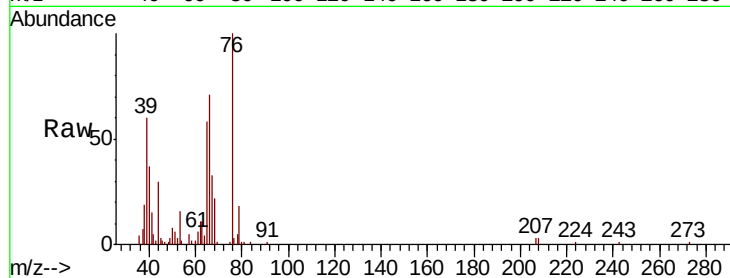


#27
Carbon Disulfide
Concen: 0.305 ppbv
RT: 4.54
Delta R.T.: MSVOA_L
Lab File: ClientSampleId : SV2DL
Acq: 10 May 2022 2:20

Tot Ion:
Ion Ratio
76 100
44 28.
78 11.

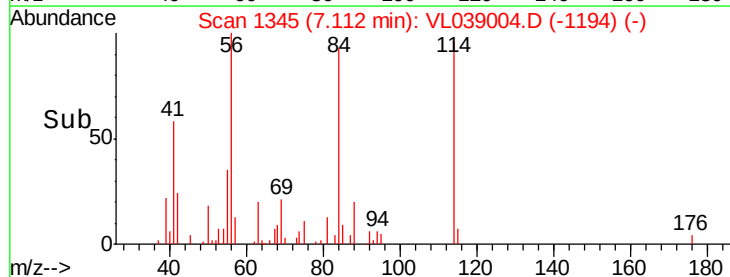
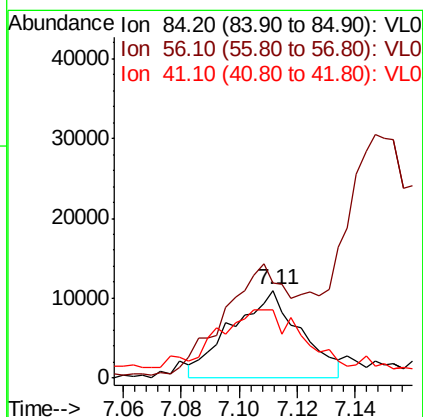
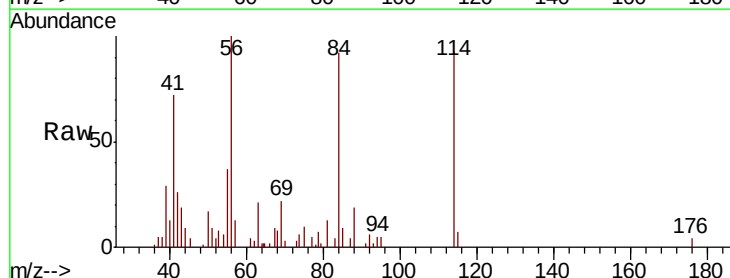
Manual Integrations
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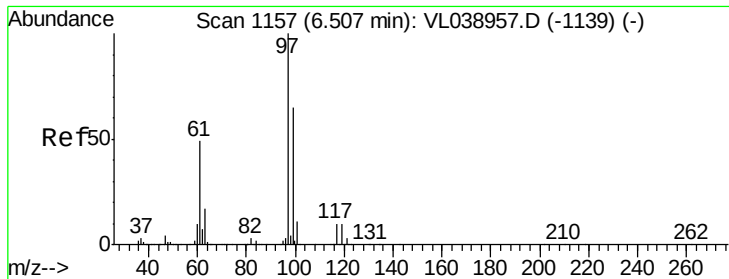
Reviewed By :Semsettin Yesilyurt 05/11/2022
Supervised By :Mahesh Dadoda 05/11/2022



#30
Cyclohexane
Concen: 0.198 ppbv
RT: 7.11 min Scan# 1345
Delta R.T.: -0.02 min
Lab File: VL039004.D
Acq: 10 May 2022 2:20

Tgt Ion: 84 Resp: 18016
Ion Ratio Lower Upper
84 100
56 0.0 115.3 172.9#
41 103.5 72.0 108.0





#32

1,1,1-Trichloroethane

Concen: 15.194 ppbv

RT: 6.49 Instrument :

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 10 May 2022 2:20 SV2DL

Tot Ion:

Ion Ratio

97 100

99 65.

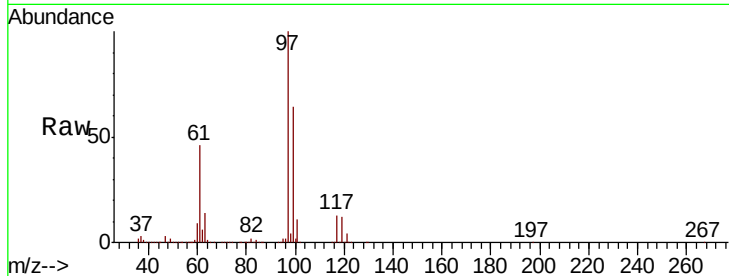
61 46.

Manual Integrations

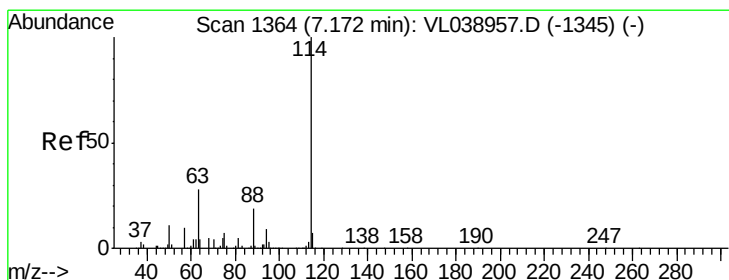
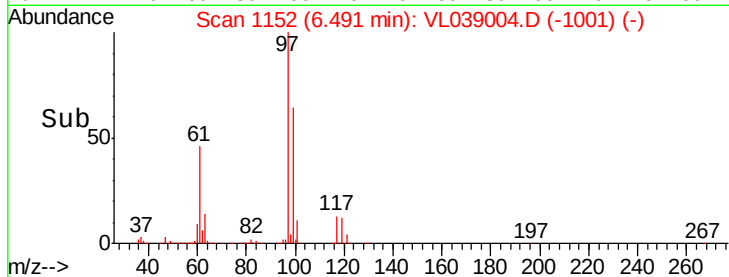
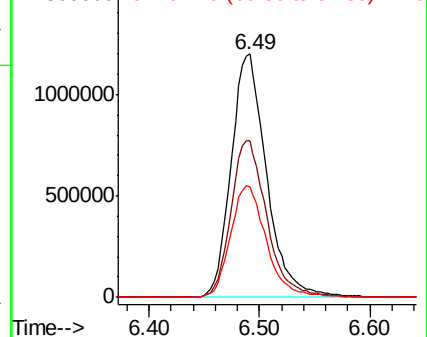
APPROVED

Reviewed By :Semsettin Yesilyurt 05/11/2022

Supervised By :Mahesh Dadoda 05/11/2022



Abundance Ion 97.00 (96.70 to 97.70): VL0
Ion 99.00 (98.70 to 99.70): VL0
Ion 61.10 (60.80 to 61.80): VL0



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.15 min Scan# 1357

Delta R.T. -0.02 min

Lab File: VL039004.D

Acq: 10 May 2022 2:20

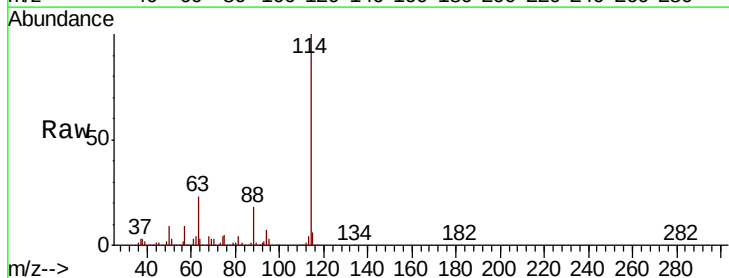
Tgt Ion:114 Resp: 3051354

Ion Ratio Lower Upper

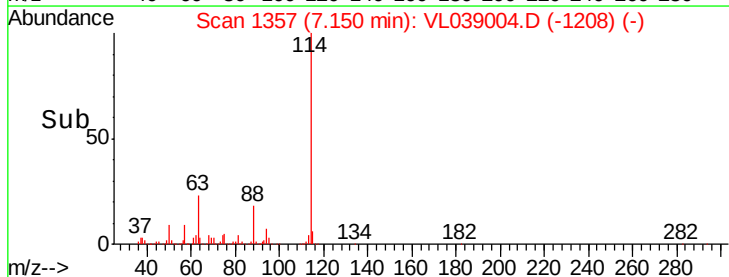
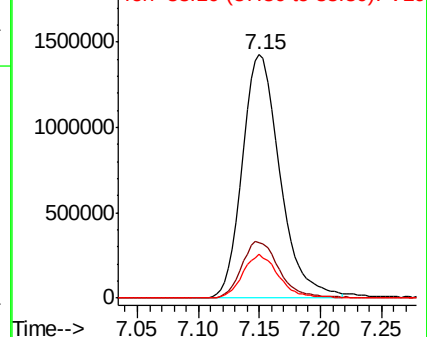
114 100

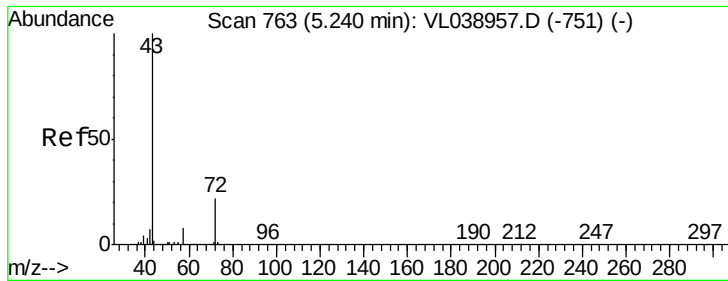
63 23.5 22.6 33.8

88 17.3 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



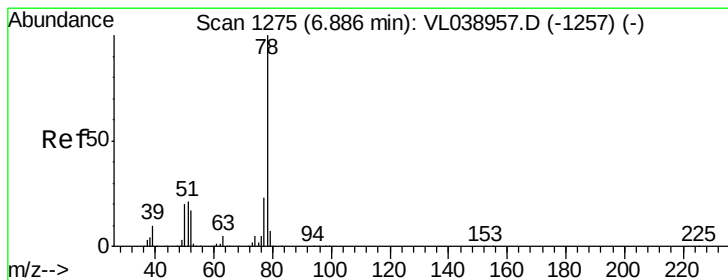
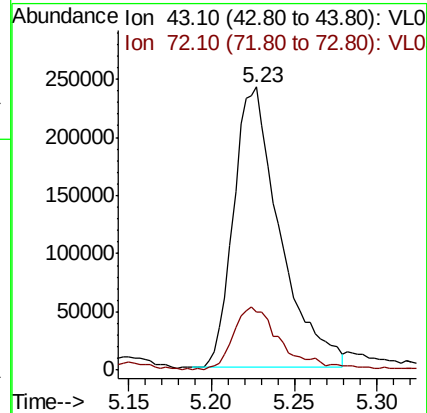
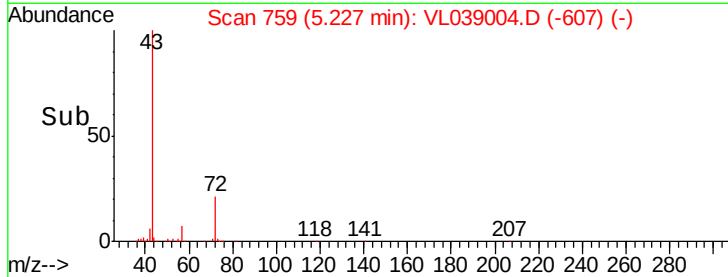
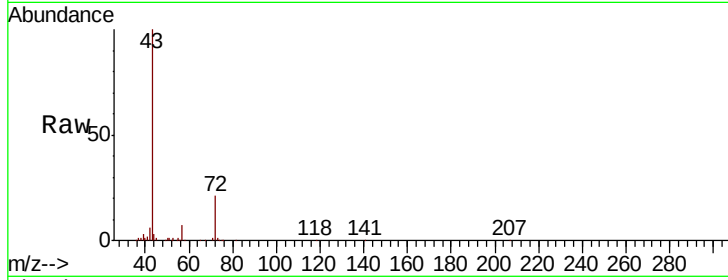


#34
 2-Butanone
 Concen: 3.011 ppbv
 RT: 5.23
 Delta R.T.: MSVOA_L
 Lab File: ClientSampleId : SV2DL
 Acq: 10 May 2022 2:20

Tot Ion:
 Ion Ratio
 43 100
 72 24.

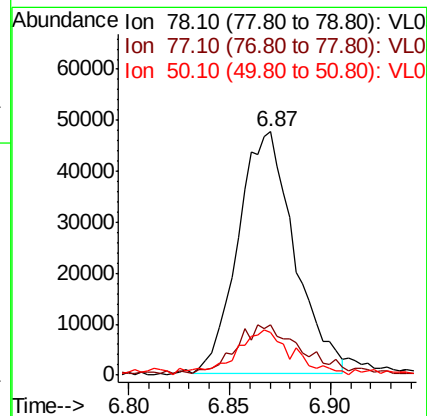
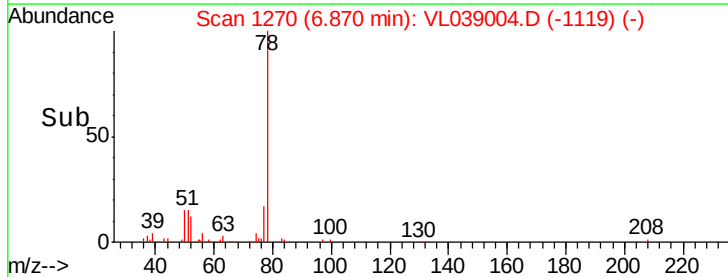
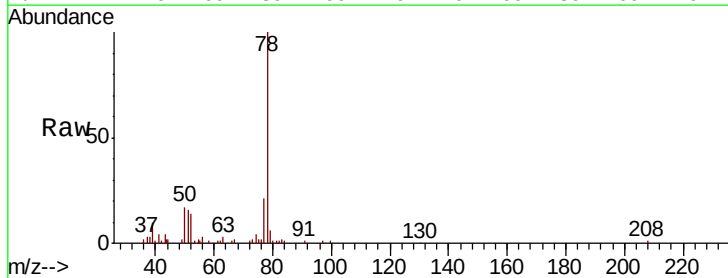
Manual Integrations
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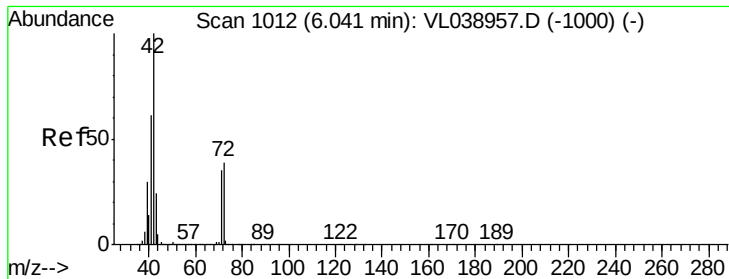
Reviewed By :Semsettin Yesilyurt 05/11/2022
 Supervised By :Mahesh Dadoda 05/11/2022



#36
 Benzene
 Concen: 0.355 ppbv
 RT: 6.87 min Scan# 1270
 Delta R.T. -0.02 min
 Lab File: VL039004.D
 Acq: 10 May 2022 2:20

Tgt Ion: 78 Resp: 92662
 Ion Ratio Lower Upper
 78 100
 77 20.2 18.6 28.0
 50 16.0 15.6 23.4



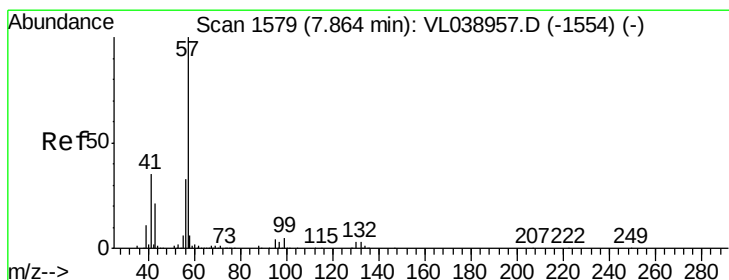
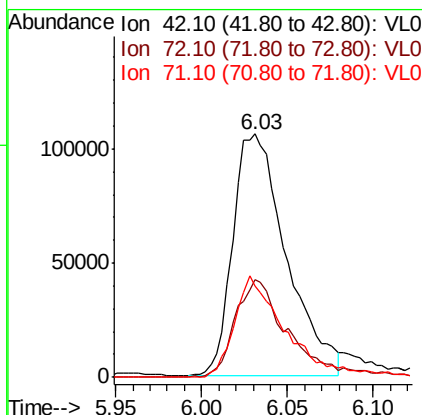
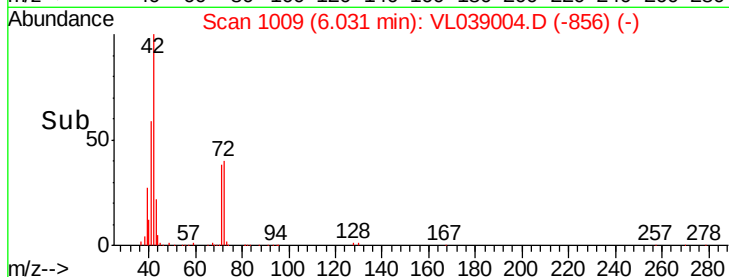
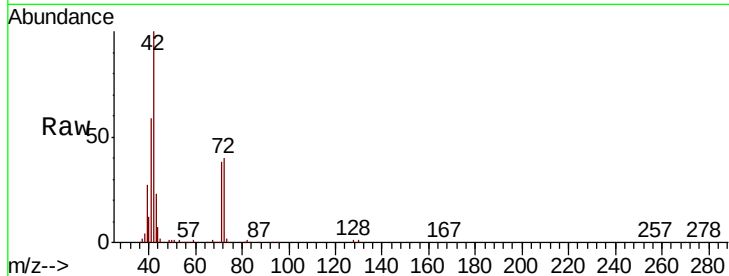


#41
Tetrahydrofuran
Concen: 2.189 ppbv
RT: 6.03
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
SV2DL
Acq: 10 May 2022 2:20

Tot Ion:
Ion Ratio
42 100
72 41.
71 40.

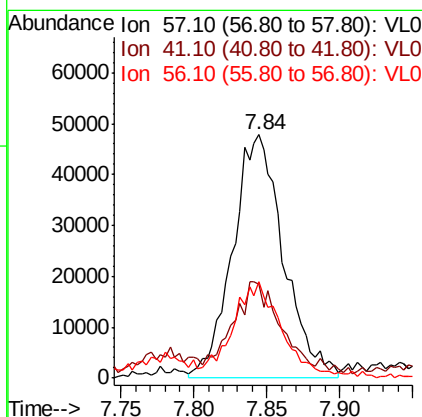
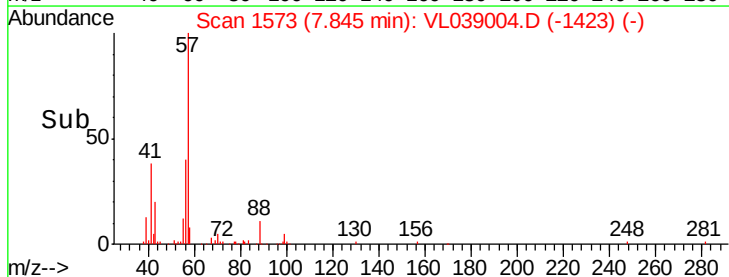
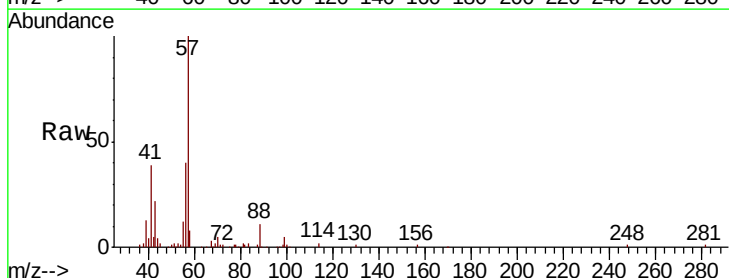
Manual Integrations
APPROVED

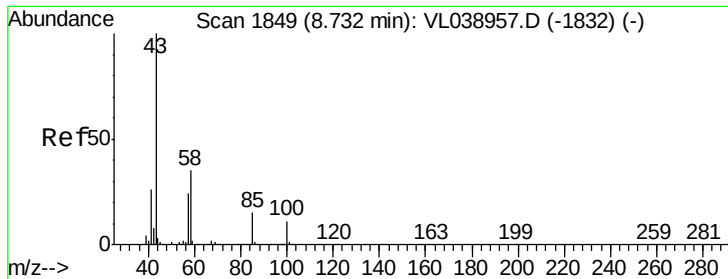
Reviewed By :Semsettin Yesilyurt 05/11/2022
Supervised By :Mahesh Dadoda 05/11/2022



#44
2,2,4-Trimethylpentane
Concen: 0.253 ppbv m
RT: 7.84 min Scan# 1573
Delta R.T. -0.02 min
Lab File: VL039004.D
Acq: 10 May 2022 2:20

Tgt Ion: 57 Resp: 115724
Ion Ratio Lower Upper
57 100
41 41.7 26.3 39.5#
56 39.5 24.6 37.0#



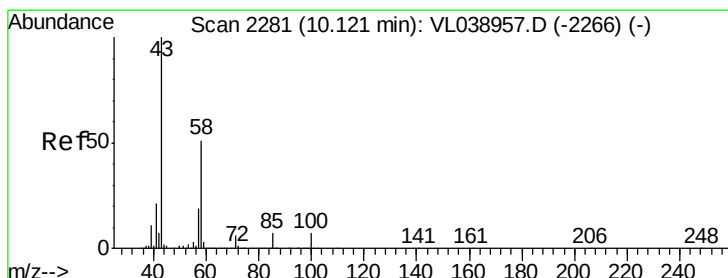
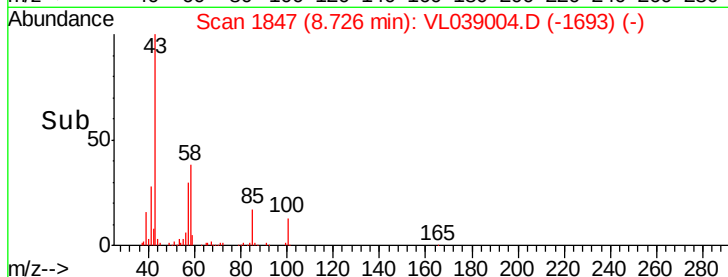
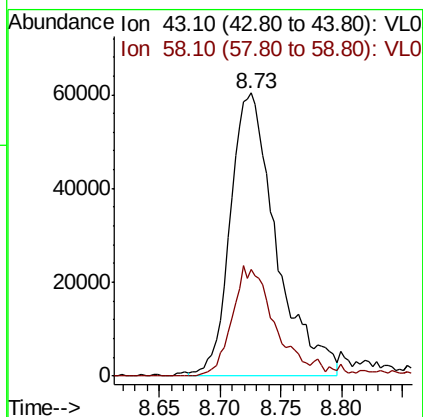
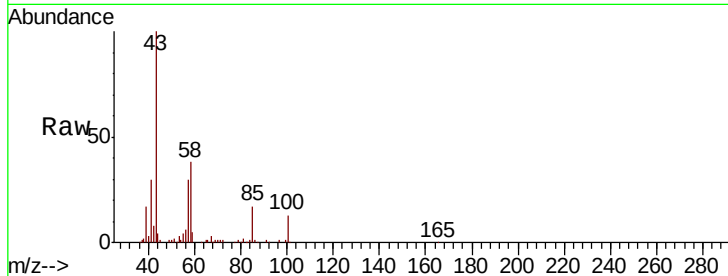


#50
4-Methyl-2-Pentanone
Concen: 0.588 ppbv m
RT: 8.73
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
SV2DL
Acq: 10 May 2022 2:20

Tot Ion:
Ion Ratio
43 100
58 37.

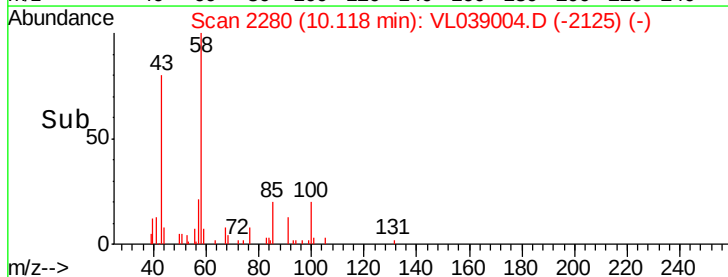
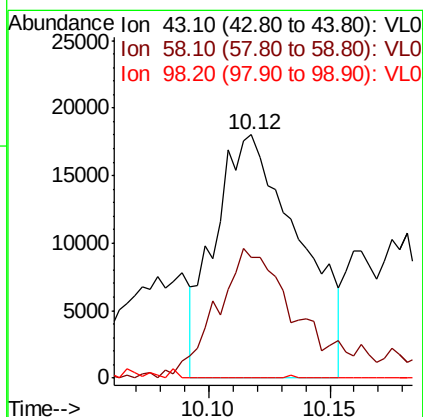
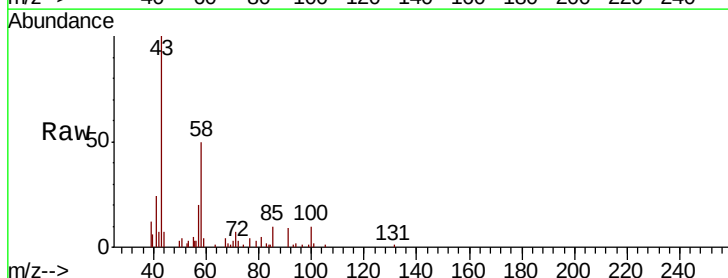
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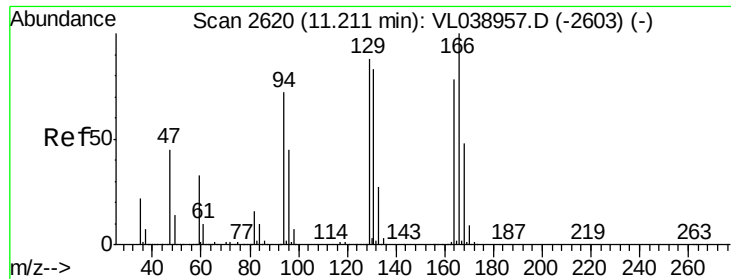
Reviewed By :Semsettin Yesilyurt 05/11/2022
Supervised By :Mahesh Dadoda 05/11/2022



#51
2-Hexanone
Concen: 0.218 ppbv m
RT: 10.12 min Scan# 2280
Delta R.T. -0.00 min
Lab File: VL039004.D
Acq: 10 May 2022 2:20

Tgt Ion: 43 Resp: 43447
Ion Ratio Lower Upper
43 100
58 0.0 39.3 58.9#
98 0.0 0.2 0.2#





#52

Tetrachloroethene

Concen: 4.267 ppbv

RT: 11.19

Delta R.T. MSVOA_L

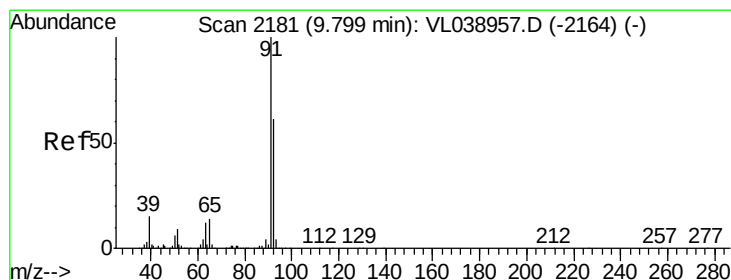
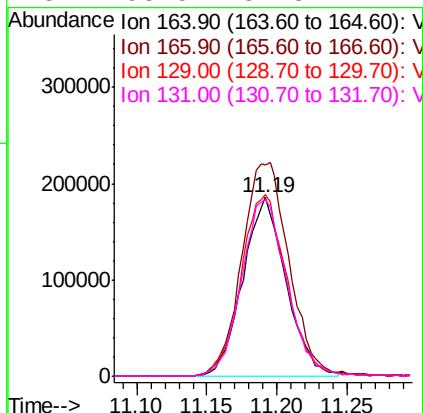
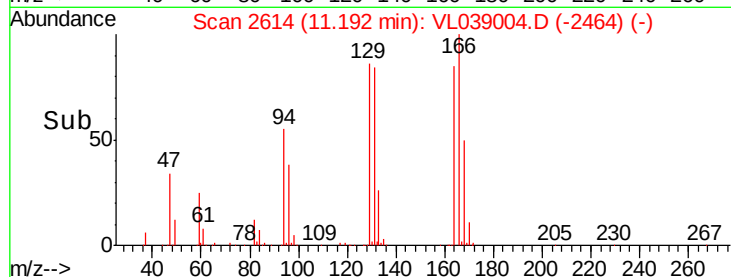
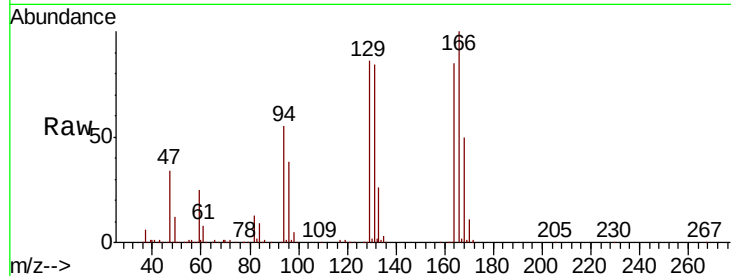
Lab File: ClientSampleId :

Acq: 10 May 2022 2:20

Tot Ion:1
Ion Ratio
164 100
166 117.
129 101.
131 98.5 84.8 127.2

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 05/11/2022
Supervised By :Mahesh Dadoda 05/11/2022



#53

Toluene

Concen: 1.514 ppbv

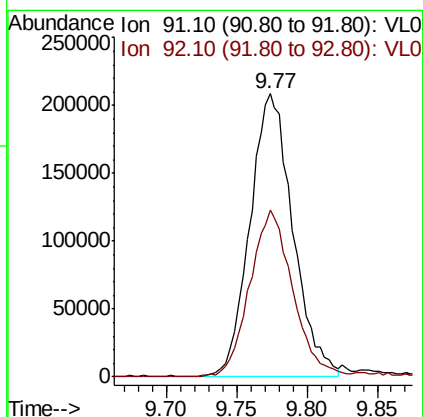
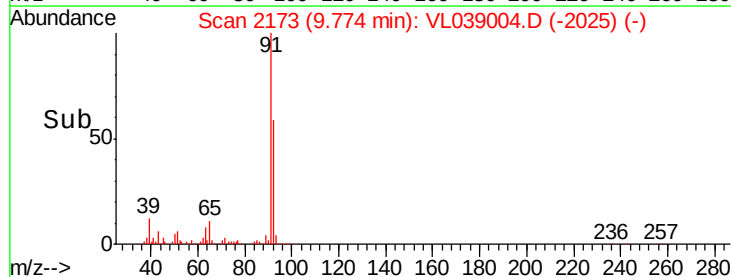
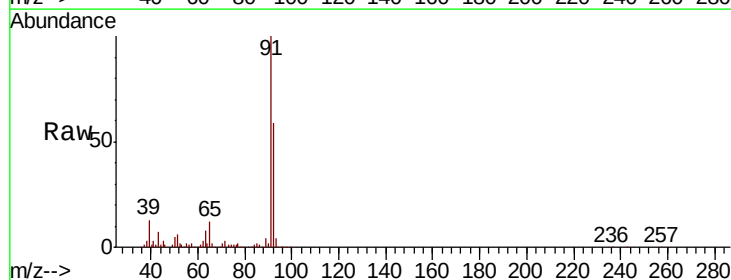
RT: 9.77 min Scan# 2173

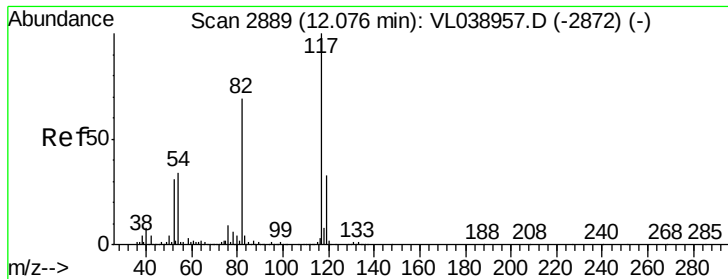
Delta R.T. -0.03 min

Lab File: VL039004.D

Acq: 10 May 2022 2:20

Tgt Ion: 91 Resp: 443222
Ion Ratio Lower Upper
91 100
92 60.9 48.2 72.2





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.05

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

SV2DL

Acq: 10 May 2022 2:20

Tot Ion:1

Ion Rati

117 100

82 62.

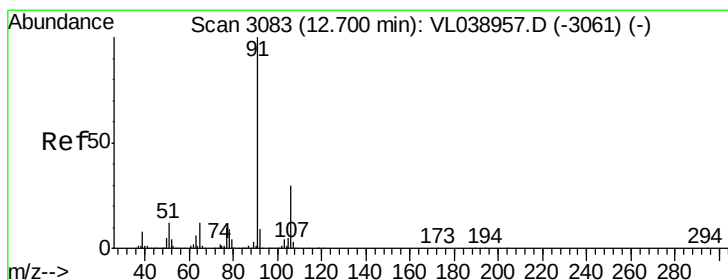
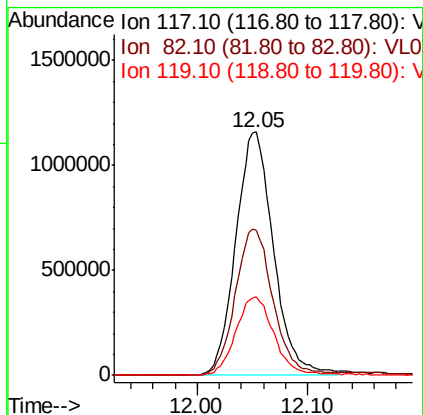
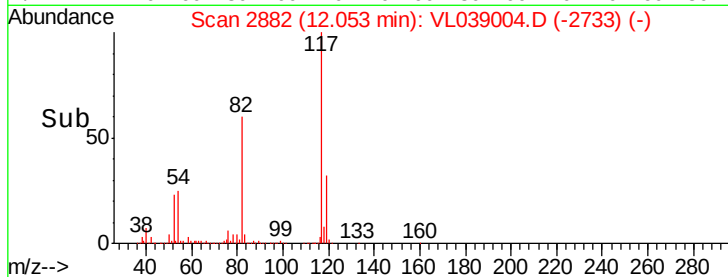
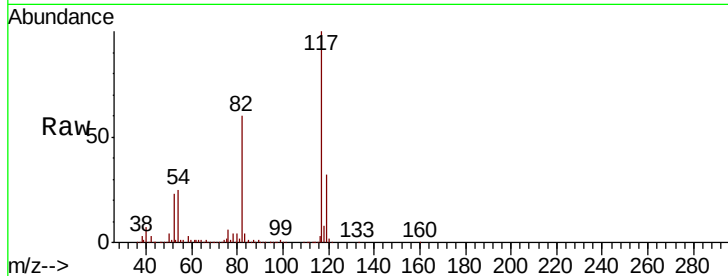
119 33.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/11/2022

Supervised By :Mahesh Dadoda 05/11/2022



#58

Ethyl Benzene

Concen: 1.110 ppbv

RT: 12.67 min Scan# 3075

Delta R.T. -0.03 min

Lab File: VL039004.D

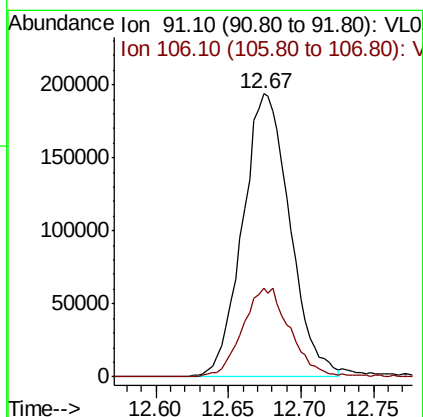
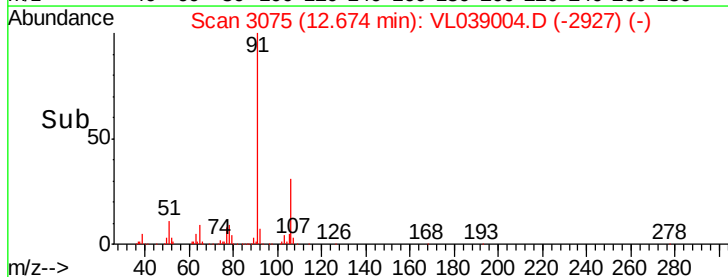
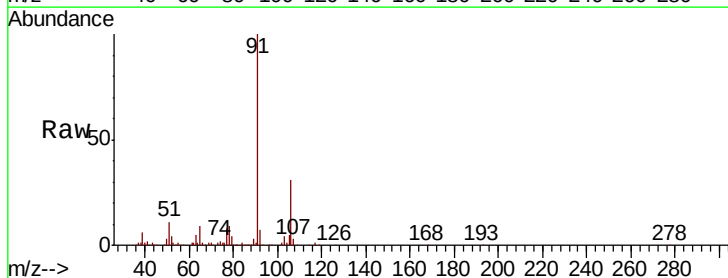
Acq: 10 May 2022 2:20

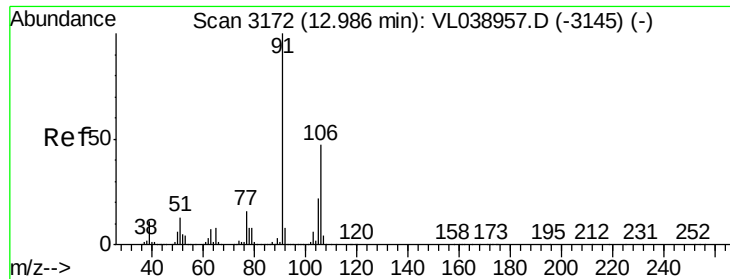
Tgt Ion: 91 Resp: 439205

Ion Ratio Lower Upper

91 100

106 31.2 24.2 36.4



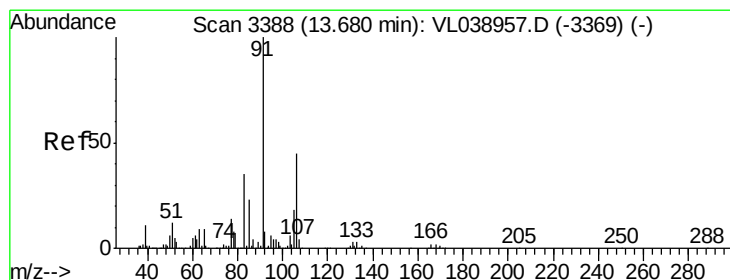
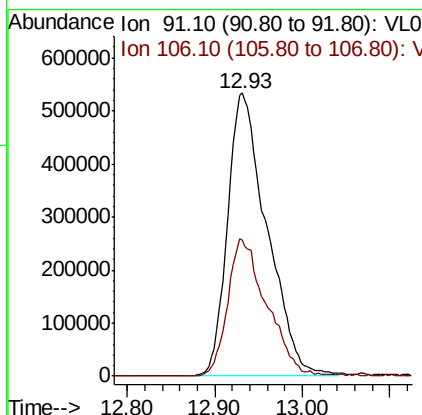
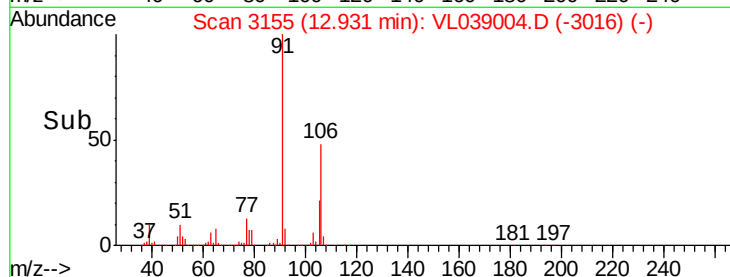
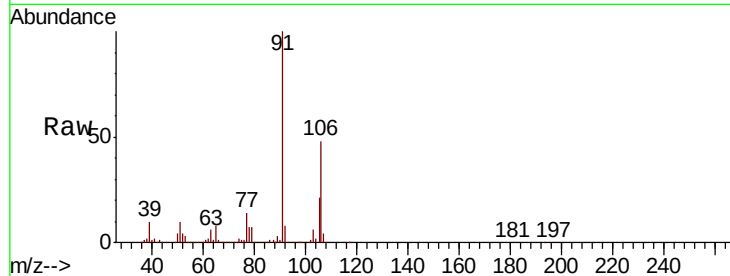


#59
m/p-Xylene
Concen: 4.930 ppbv
RT: 12.93 min
Delta R.T.: -0.03 min
Lab File: VL039004.D
Acq: 10 May 2022 2:20

Tot Ion:
Ion Ratio
91 100
106 48.

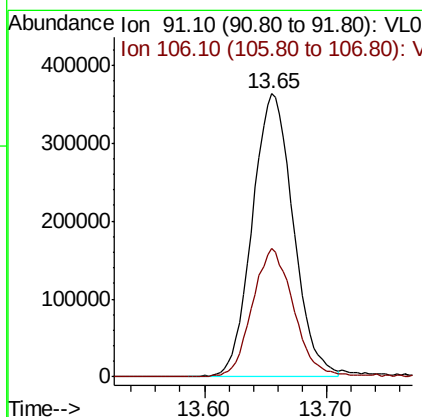
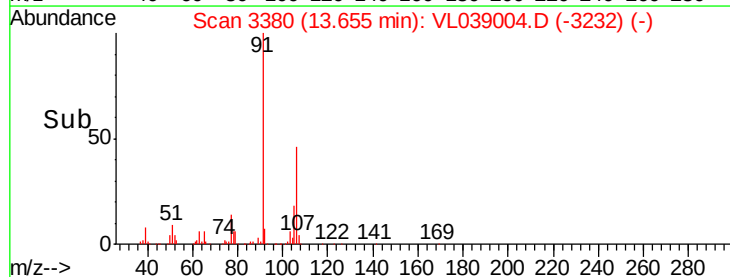
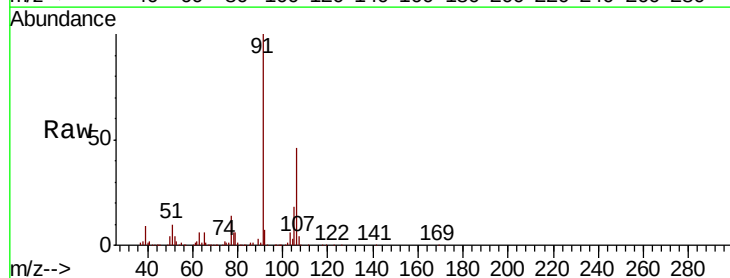
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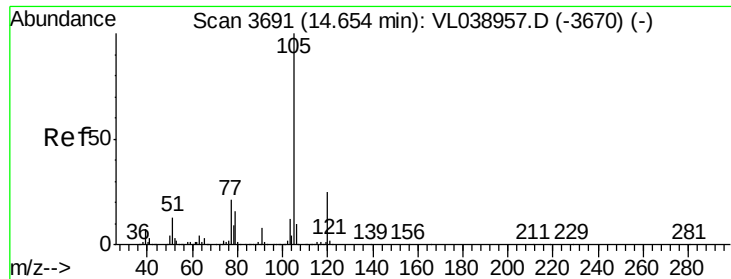
Reviewed By :Semsettin Yesilyurt 05/11/2022
Supervised By :Mahesh Dadoda 05/11/2022



#60
o-Xylene
Concen: 2.657 ppbv
RT: 13.65 min Scan# 3380
Delta R.T.: -0.03 min
Lab File: VL039004.D
Acq: 10 May 2022 2:20

Tgt Ion: 91 Resp: 844454
Ion Ratio Lower Upper
91 100
106 46.1 22.2 66.6





#62

Isopropylbenzene

Concen: 0.179 ppbv m

RT: 14.63

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 10 May 2022 2:20

Tot Ion:1

Ion Ratio

105 100

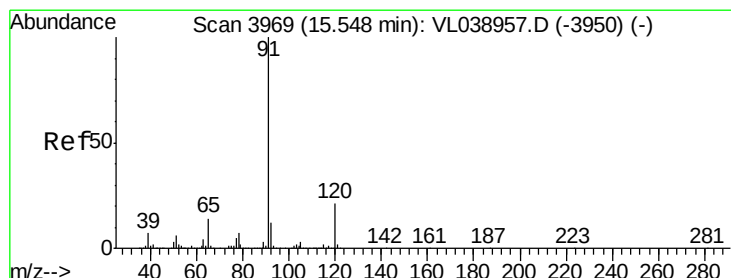
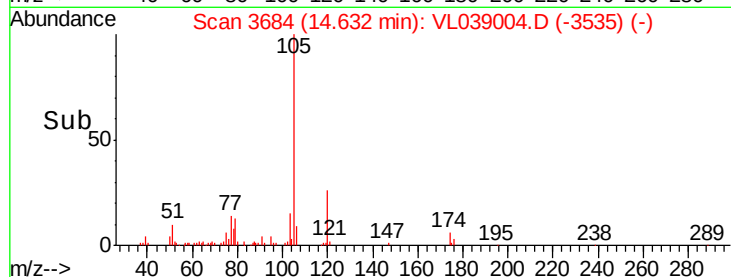
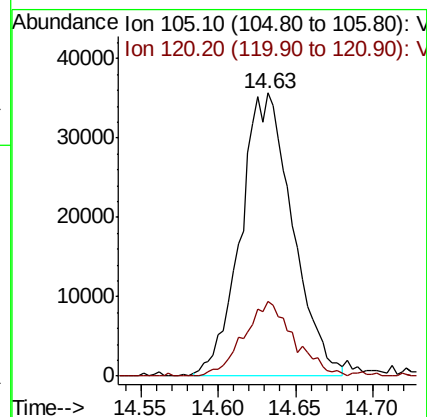
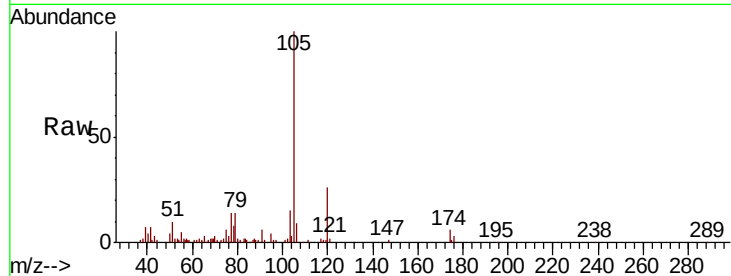
120 0.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/11/2022

Supervised By :Mahesh Dadoda 05/11/2022



#64

n-propylbenzene

Concen: 0.527 ppbv m

RT: 15.53 min Scan# 3964

Delta R.T. -0.02 min

Lab File: VL039004.D

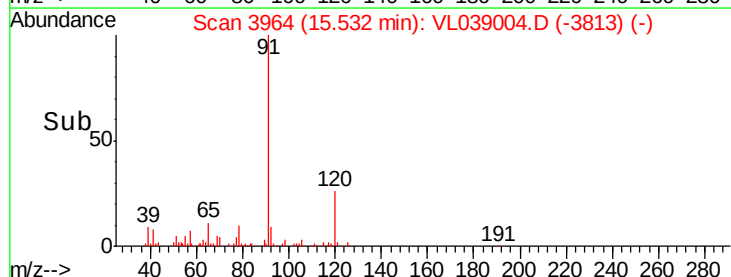
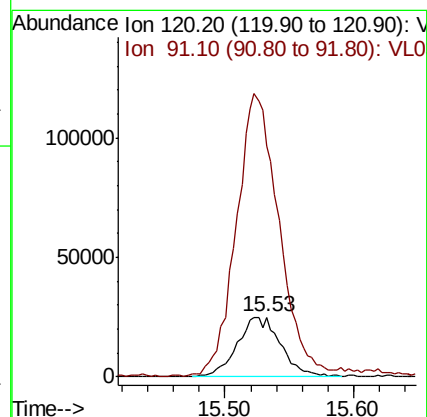
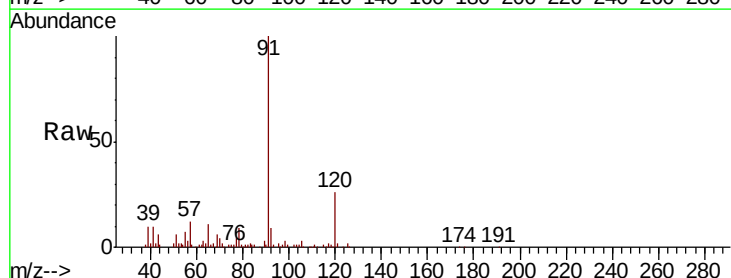
Acq: 10 May 2022 2:20

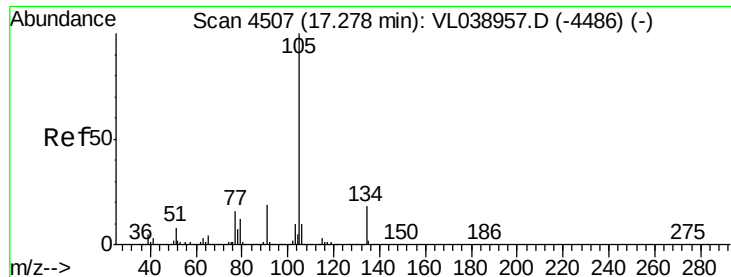
Tgt Ion:120 Resp: 59245

Ion Ratio Lower Upper

120 100

91 471.9 400.6 601.0





#67

sec-Butylbenzene

Concen: 0.101 ppbv m

RT: 17.25

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 10 May 2022 2:20

Tot Ion:1

Ion Rati

105 100

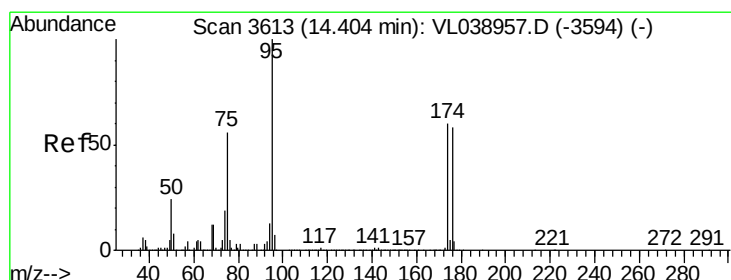
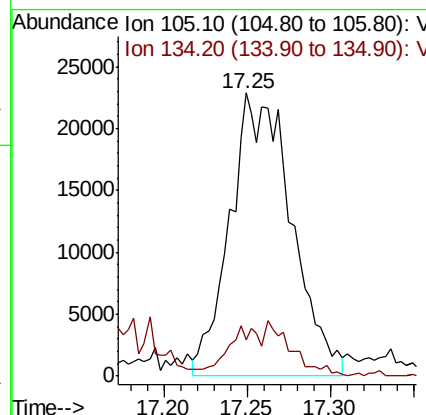
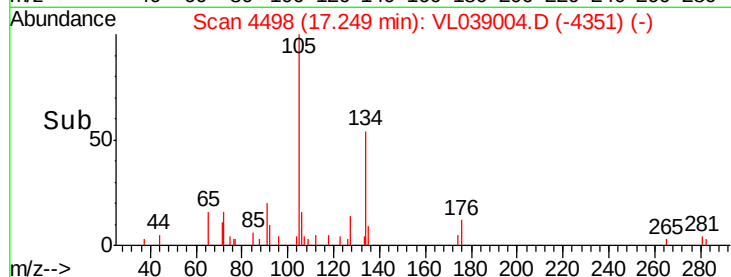
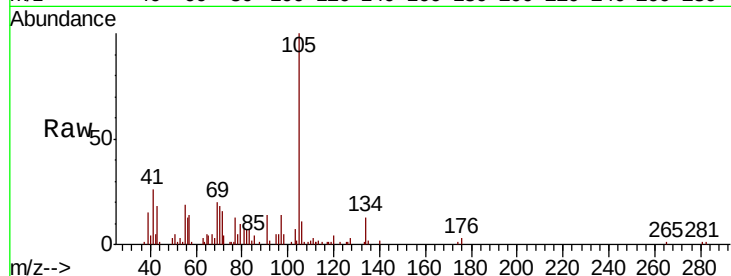
134 17.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/11/2022

Supervised By :Mahesh Dadoda 05/11/2022



#68

1-Bromo-4-Fluorobenzene

Concen: 9.279 ppbv

RT: 14.38 min Scan# 3606

Delta R.T. -0.02 min

Lab File: VL039004.D

Acq: 10 May 2022 2:20

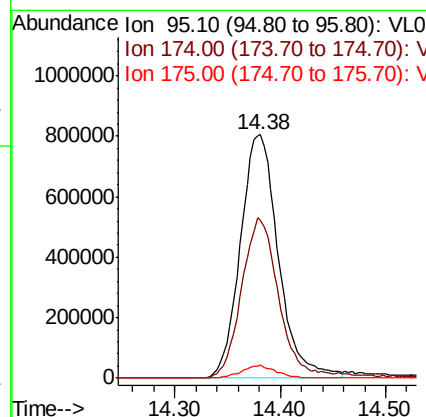
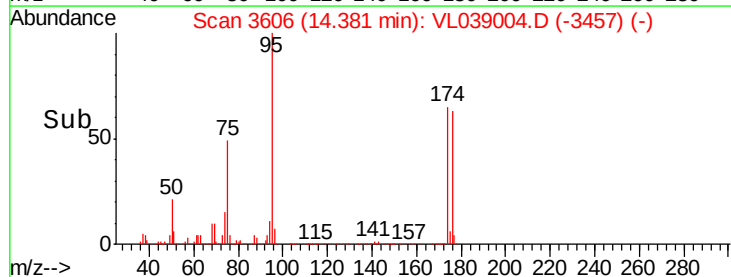
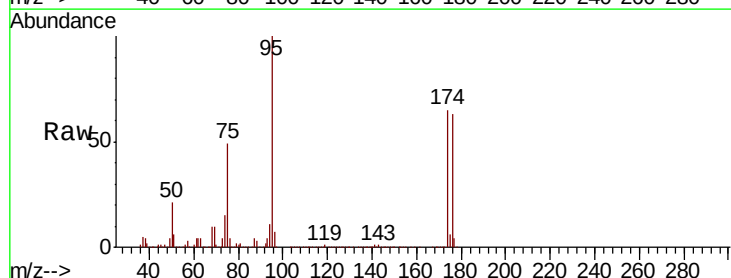
Tgt Ion: 95 Resp: 2019514

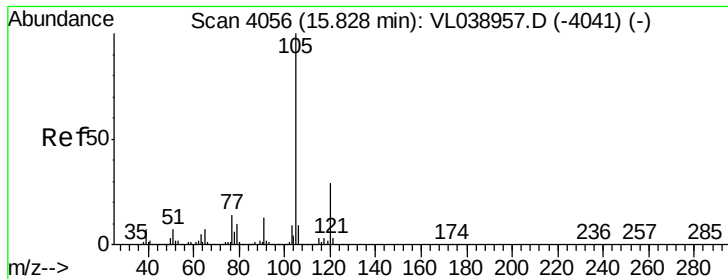
Ion Ratio Lower Upper

95 100

174 65.7 50.8 76.2

175 4.9 3.8 5.6





#72

4-Ethyltoluene

Concen: 0.795 ppbv m

RT: 15.80

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 10 May 2022 2:20

Tot Ion:1

Ion Ratio

105 100

120 29.

91 11.

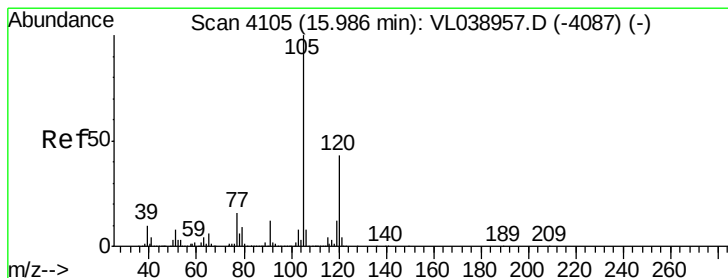
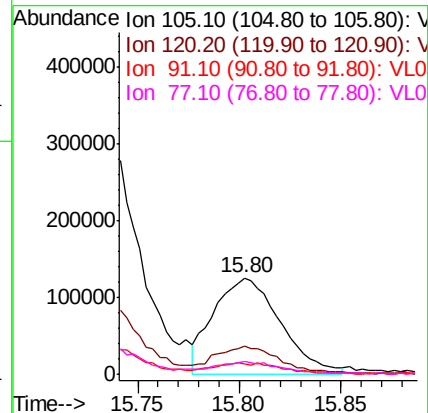
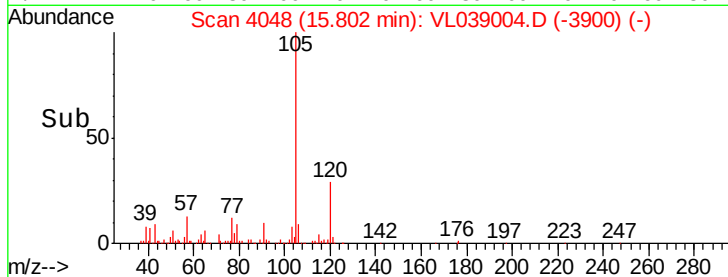
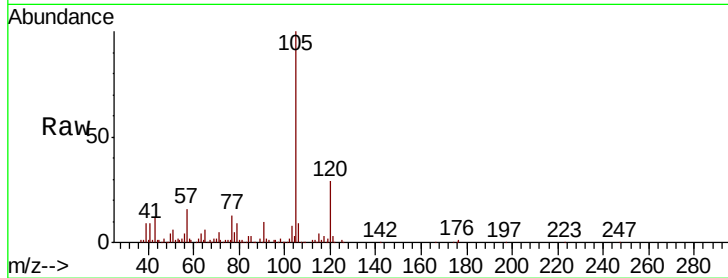
77 13.6

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 05/11/2022

Supervised By :Mahesh Dadoda 05/11/2022



#73

1,3,5-Trimethylbenzene

Concen: 1.027 ppbv

RT: 15.96 min Scan# 4096

Delta R.T. -0.03 min

Lab File: VL039004.D

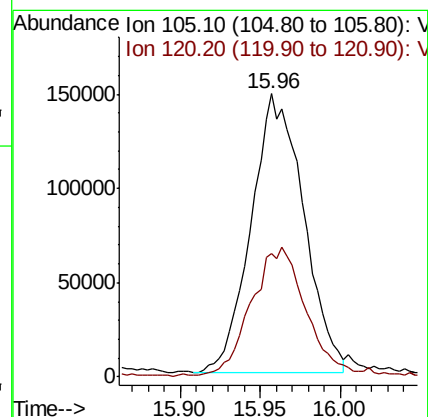
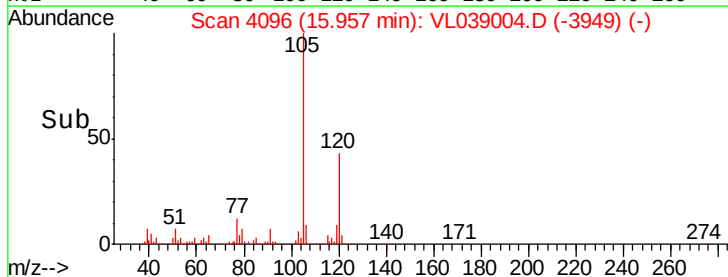
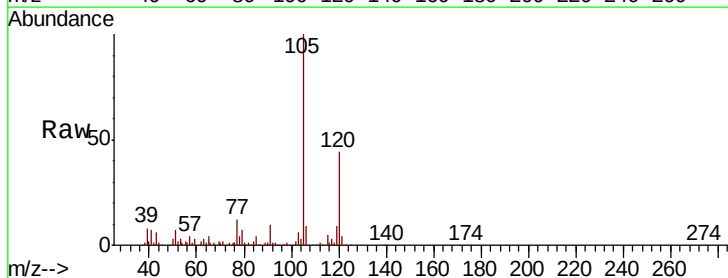
Acq: 10 May 2022 2:20

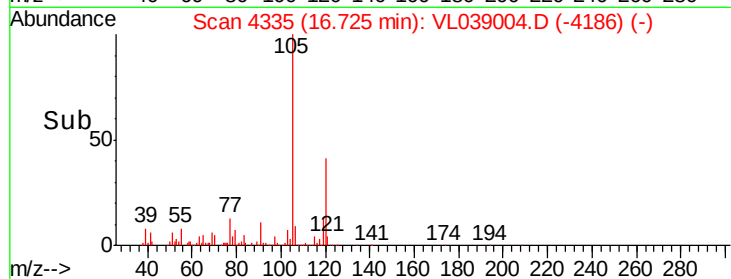
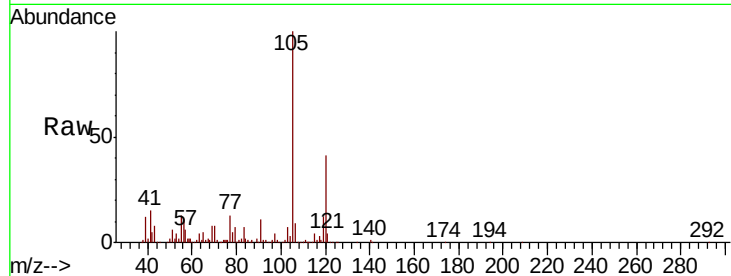
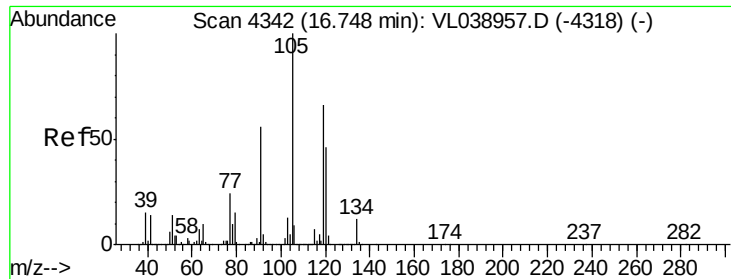
Tgt Ion:105 Resp: 334915

Ion Ratio Lower Upper

105 100

120 43.6 34.4 51.6





#74

1,2,4-Trimethylbenzene

Concen: 2.181 ppbv

RT: 16.73

Delta R.T

Lab File: ClientSampleId :

Acq: 10 May 2022 2.20

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/11/2022
Supervised By :Mahesh Dadoda 05/11/2022

Tot Ion	Ion	Ratio
105	100	
120	41	
91	10	
77	12.8	19.2 28.8#

