

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL040722\
 Data File : VL038854.D
 Acq On : 7 Apr 2022 23:29
 Operator : SY/AP
 Sample : N2273-06
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA L
 ClientSampleId :
 1160-1-SG-3

Manual Integrations
 APPROVED

Quant Time: Apr 08 09:33:21 2022

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL040522A

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

QLast Update : Wed Apr 06 06:12:53 2022

Response via : Initial Calibration

Reviewed By :Semsettin Yesilyurt 04/09/2022
 Supervised By :Mahesh Dadoda 04/11/2022

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.71	49	1264457	10.00	ppbv	0.05
33) 1,4-Difluorobenzene	7.22	114	3073646	10.00	ppbv	0.05
55) Chlorobenzene-d5	12.12	117	2746149	10.00	ppbv	0.04

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.45	95	2134070	10.24	ppbv	0.04
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.40%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	3.08	85	27370	0.153	ppbv	99
3) Chlorodifluoromethane	3.01	51	52226m	0.338	ppbv	
4) Chloromethane	3.16	50	33175	0.415	ppbv	95
9) Propene	3.05	41	7995851m	97.933	ppbv	
10) Heptane	8.16	43	1416590	6.888	ppbv	98
11) Trichlorofluoromethane	3.98	101	38637	0.268	ppbv	86
13) Ethanol	3.64	45	2172358	437.824	ppbv #	100
15) Acetone	3.89	43	50586371m	401.836	ppbv	
17) tert-Butyl alcohol	4.33	59	21680m	0.192	ppbv	
19) Isopropyl Alcohol	4.00	45	1993753	30.987	ppbv #	100
20) Methylene Chloride	4.39	84	67348	1.475	ppbv #	80
26) Hexane	5.72	57	356895	2.455	ppbv #	78
30) Cyclohexane	7.16	84	237682	1.855	ppbv	90
34) 2-Butanone	5.28	43	522098	4.299	ppbv	100
35) Carbon Tetrachloride	7.07	117	12212m	0.066	ppbv	
36) Benzene	6.93	78	282544	1.010	ppbv	96
44) 2,2,4-Trimethylpentane	7.90	57	1519830	3.210	ppbv #	59
50) 4-Methyl-2-Pentanone	8.77	43	1875259	6.864	ppbv	98
52) Tetrachloroethene	11.27	164	122866	1.258	ppbv	93
53) Toluene	9.85	91	1850471	5.733	ppbv	100
58) Ethyl Benzene	12.75	91	4401855	10.727	ppbv	94
59) m/p-Xylene	13.00	91	12476835	36.191	ppbv	95
60) o-Xylene	13.73	91	4724612	14.646	ppbv	96
61) Styrene	13.56	104	139863	0.712	ppbv	93
62) Isopropylbenzene	14.70	105	228486	0.472	ppbv	97
64) n-propylbenzene	15.59	120	214199	1.704	ppbv	72
65) tert-Butylbenzene	16.80	119	378959	0.882	ppbv #	62
67) sec-Butylbenzene	17.32	105	78846	0.131	ppbv	99
72) 4-Ethyltoluene	15.87	105	1463842	3.800	ppbv	99
73) 1,3,5-Trimethylbenzene	16.03	105	1179385	3.408	ppbv	92
74) 1,2,4-Trimethylbenzene	16.80	105	3530699	9.652	ppbv #	70
79) Naphthalene	22.24	128	37867m	0.138	ppbv	

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

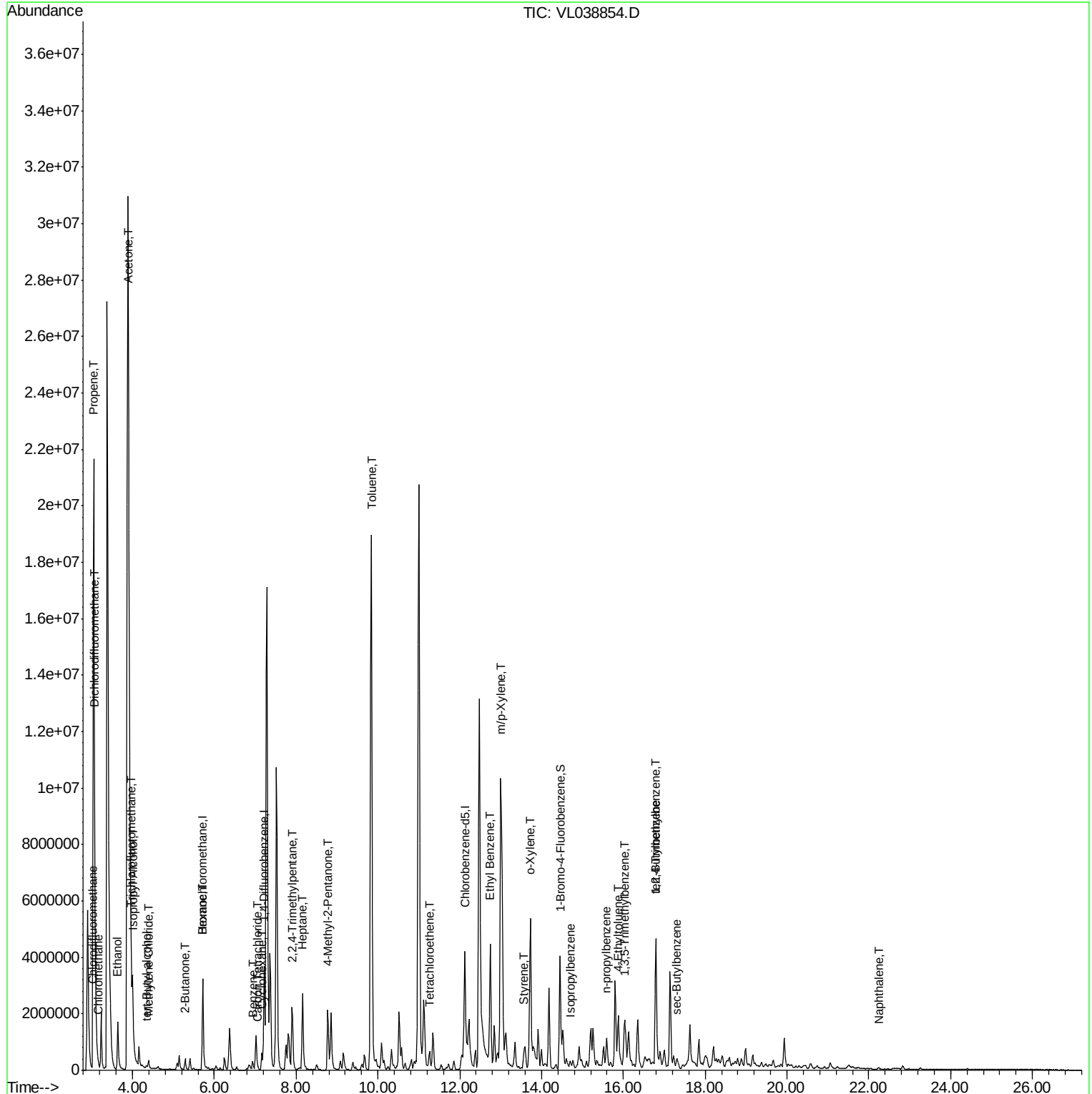
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL040722\
Data File : VL038854.D
Acq On : 7 Apr 2022 23:29
Operator : SY/AP
Sample : N2273-06
Misc : 400mL/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

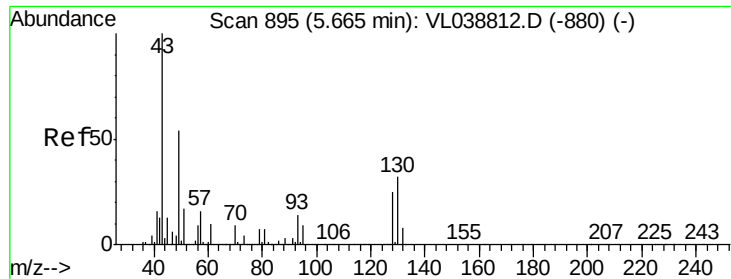
Instrument :
MSVOA_L
ClientSampleId :
1160-1-SG-3

Manual Integrations
APPROVED

Quant Time: Apr 08 09:33:21 2022
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL040522
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:
QLast Update : Wed Apr 06 06:12:53 2022
Response via : Initial Calibration

Reviewed By :Semsettin Yesilyurt 04/09/2022
Supervised By :Mahesh Dadoda 04/11/2022





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.71 Instrument: MSVOA_1

Delta R.T.

Lab File: ClientSampleId:

Acq: 7 Apr 2022 23:29

Tot Ion:

Ion Ratio

49 100

128 45.

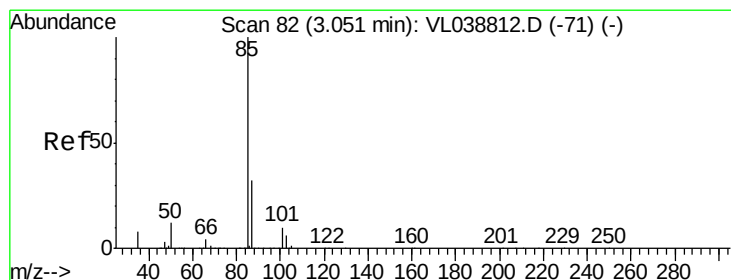
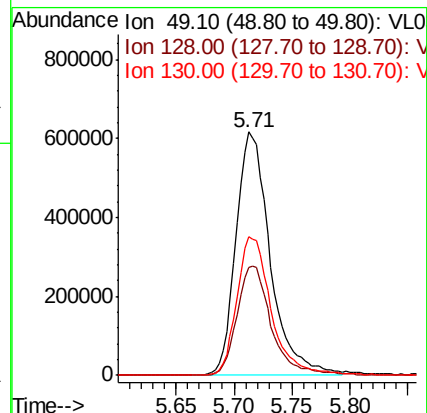
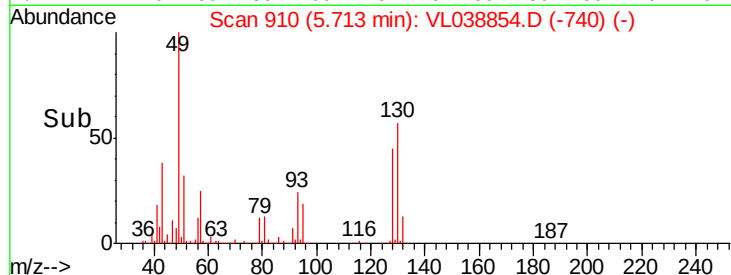
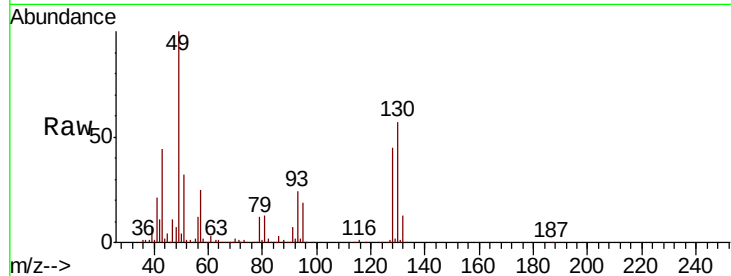
130 57.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/09/2022

Supervised By :Mahesh Dadoda 04/11/2022



#2

Dichlorodifluoromethane

Concen: 0.153 ppbv

RT: 3.08 min Scan# 90

Delta R.T. 0.03 min

Lab File: VL038854.D

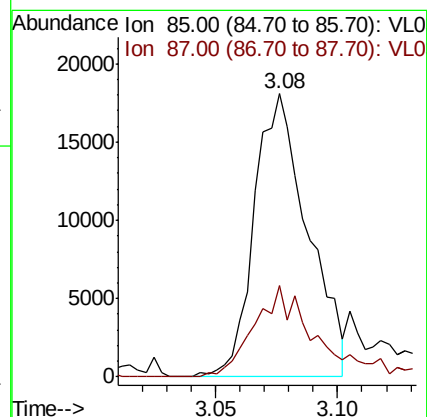
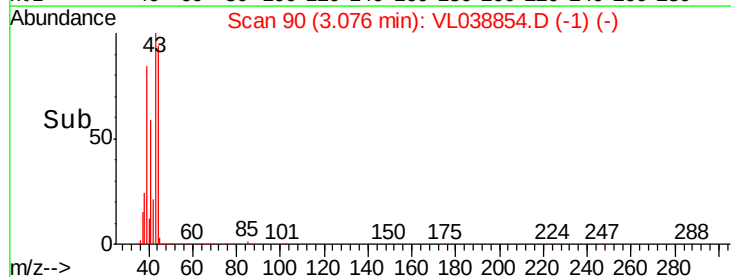
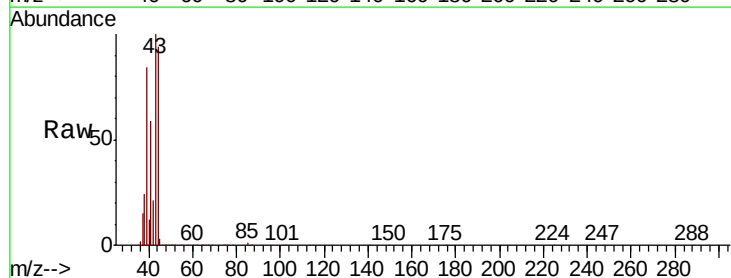
Acq: 7 Apr 2022 23:29

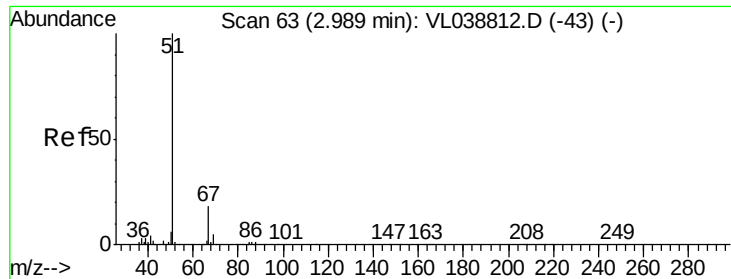
Tgt Ion: 85 Resp: 27370

Ion Ratio Lower Upper

85 100

87 32.1 25.9 38.9





#3

Chlorodifluoromethane

Concen: 0.338 ppbv m

RT: 3.01 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 7 Apr 2022 23:29

Tot Ion:

Ion Ratio

51 100

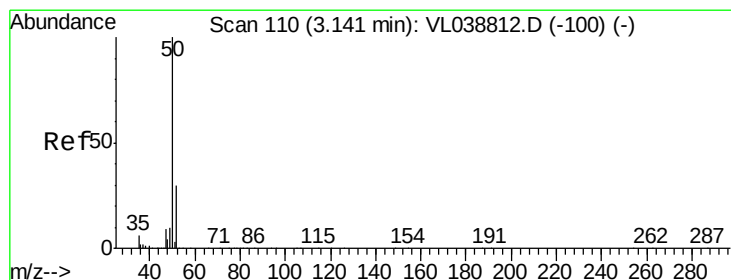
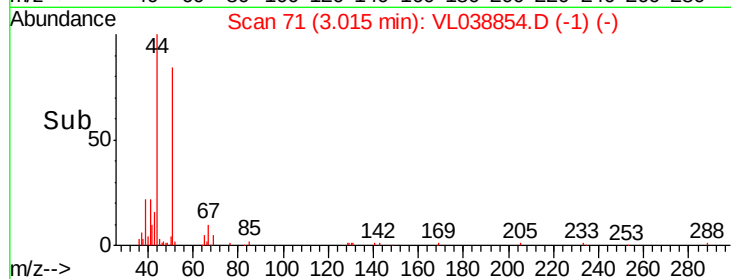
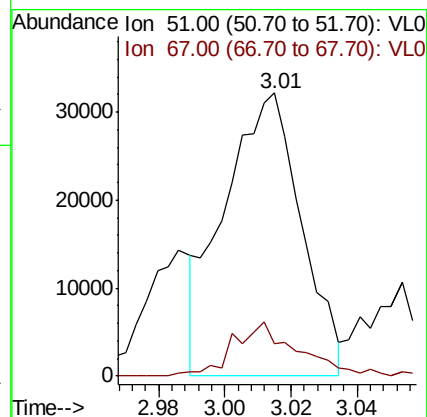
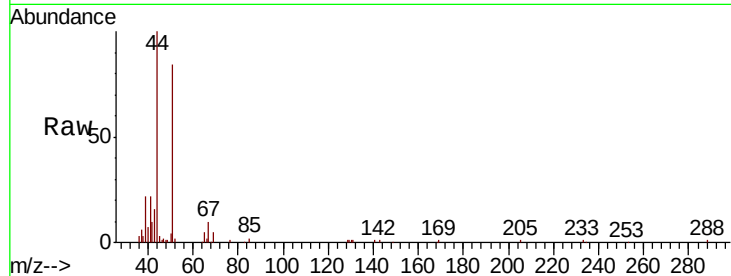
67 16.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/09/2022

Supervised By :Mahesh Dadoda 04/11/2022



#4

Chloromethane

Concen: 0.415 ppbv

RT: 3.16 min Scan# 117

Delta R.T. 0.02 min

Lab File: VL038854.D

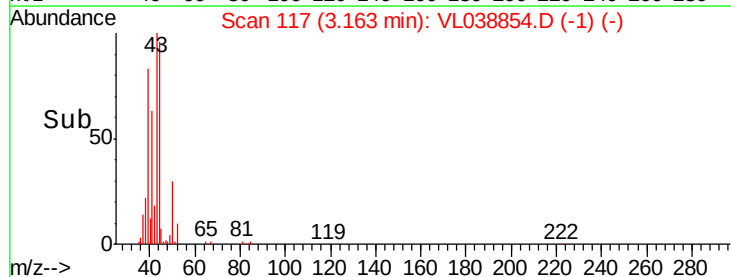
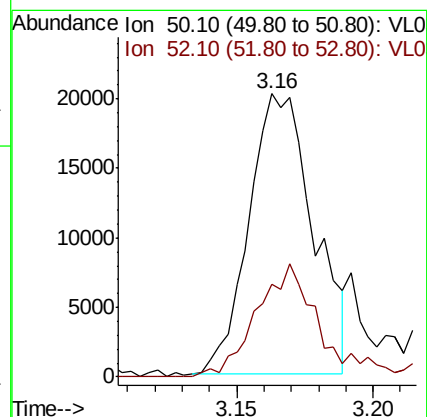
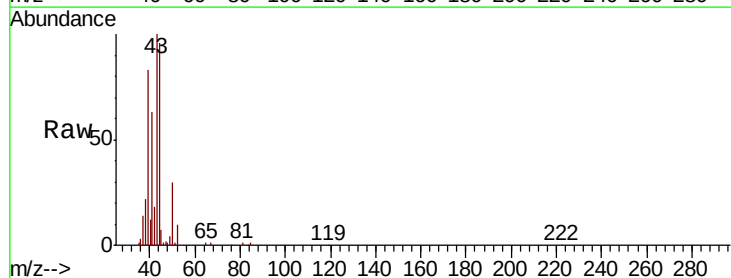
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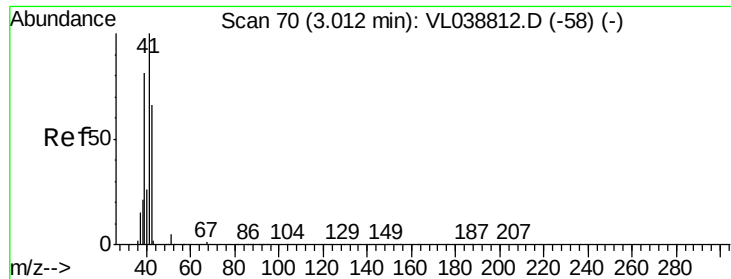
Tgt Ion: 50 Resp: 33175

Ion Ratio Lower Upper

50 100

52 33.2 24.3 36.5



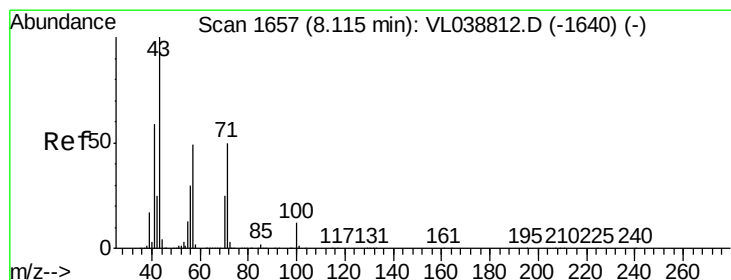
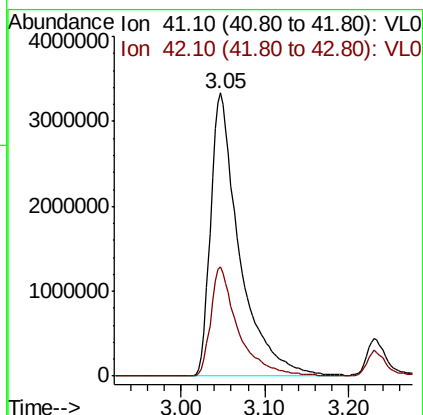
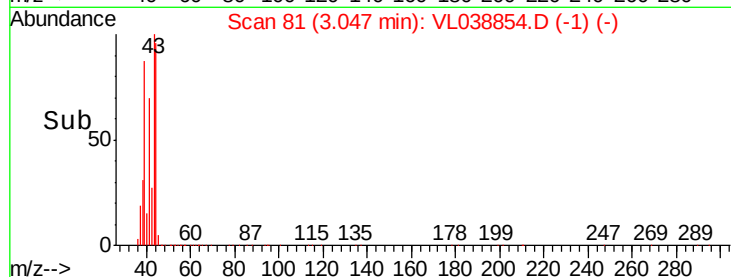
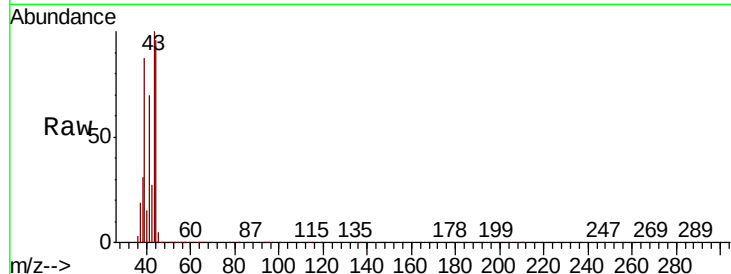


#9
 Propene
 Concen: 97.933 ppbv m
 RT: 3.05
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 7 Apr 2022 23:29

Tot Ion:
 Ion Ratio
 41 100
 42 6.

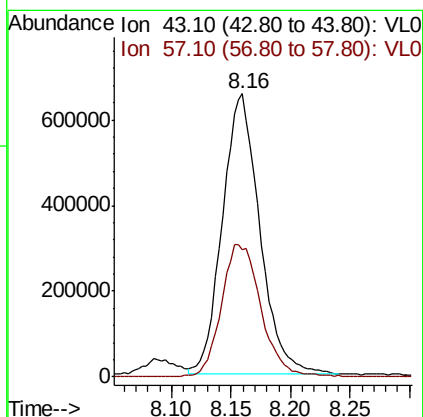
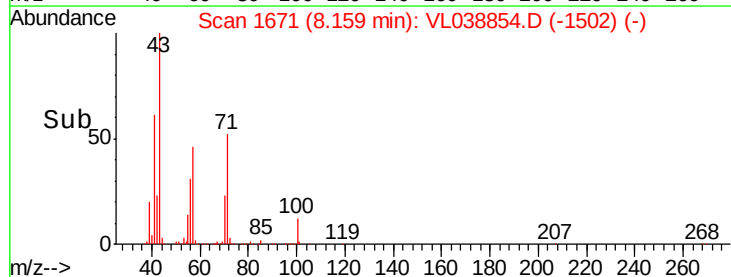
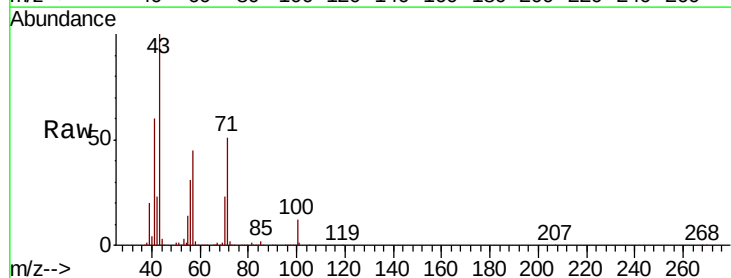
Manual Integrations
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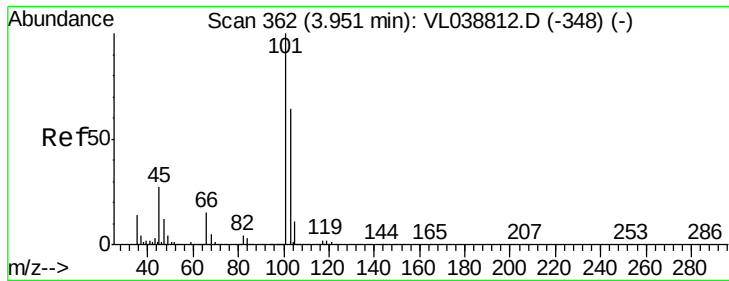
Reviewed By :Semsettin Yesilyurt 04/09/2022
 Supervised By :Mahesh Dadoda 04/11/2022



#10
 Heptane
 Concen: 6.888 ppbv
 RT: 8.16 min Scan# 1671
 Delta R.T. 0.04 min
 Lab File: VL038854.D
 Acq: 7 Apr 2022 23:29

Tgt Ion: 43 Resp: 1416590
 Ion Ratio Lower Upper
 43 100
 57 50.3 39.3 58.9



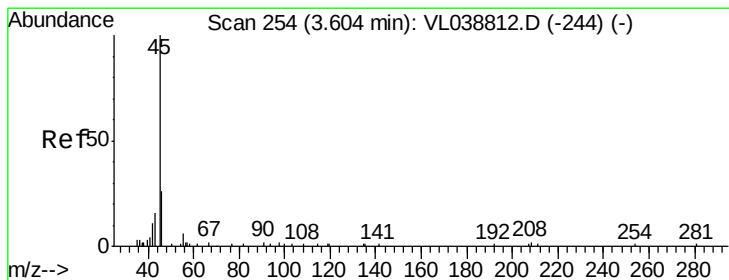
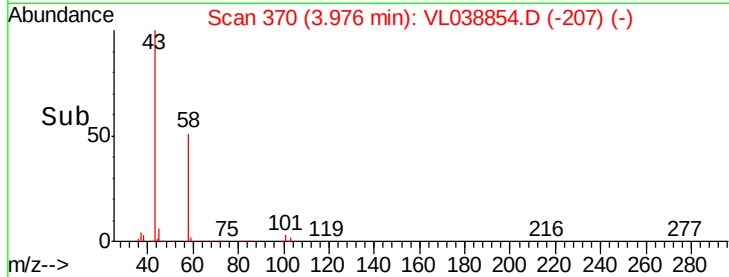
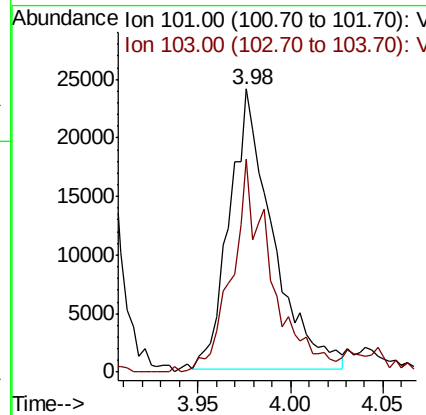
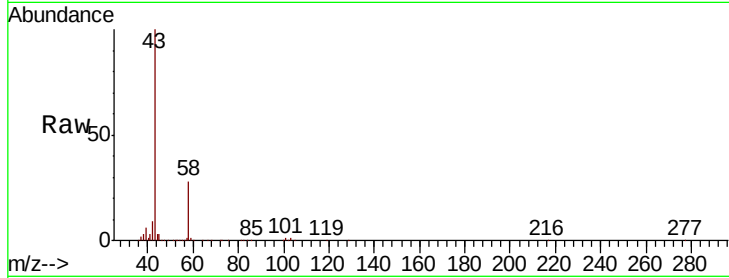


#11
 Trichlorofluoromethane
 Concen: 0.268 ppbv
 RT: 3.98
 Instrument : MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId :
 1160-1-SG-3
 Acq: 7 Apr 2022 23:29

Tot Ion:1
 Ion Rati
 101 100
 103 74.

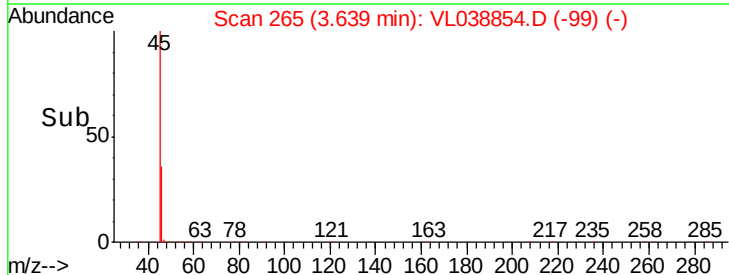
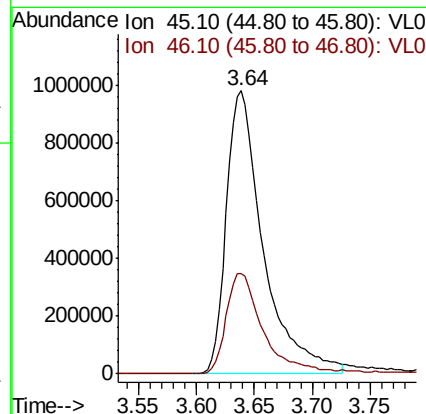
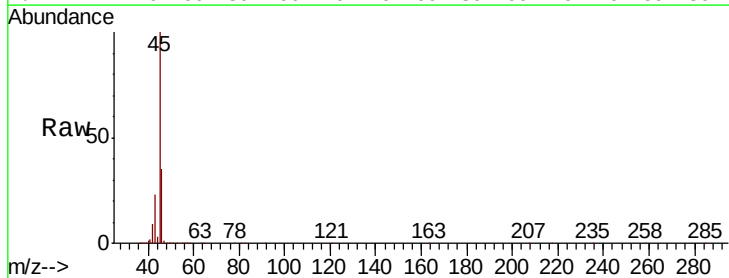
Manual Integrations
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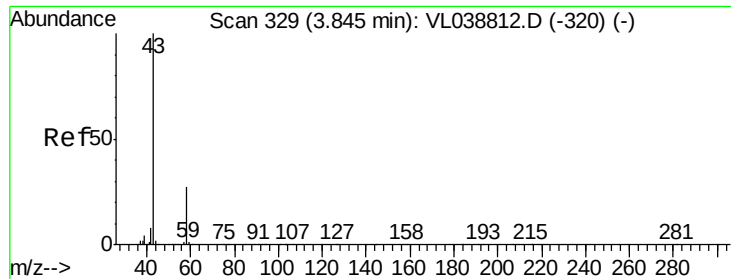
Reviewed By :Semsettin Yesilyurt 04/09/2022
 Supervised By :Mahesh Dadoda 04/11/2022



#13
 Ethanol
 Concen: 437.824 ppbv
 RT: 3.64 min Scan# 265
 Delta R.T. 0.04 min
 Lab File: VL038854.D
 Acq: 7 Apr 2022 23:29

Tgt Ion: 45 Resp: 2172358
 Ion Ratio Lower Upper
 45 100
 46 36.4 0.0 0.0#



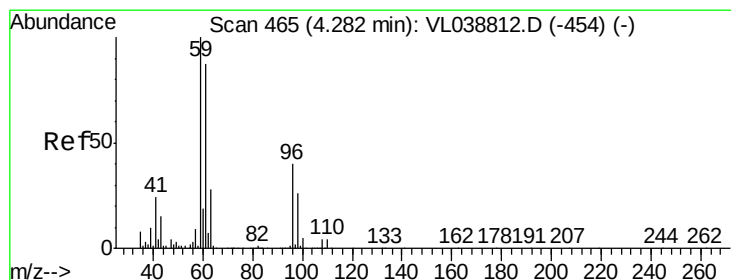
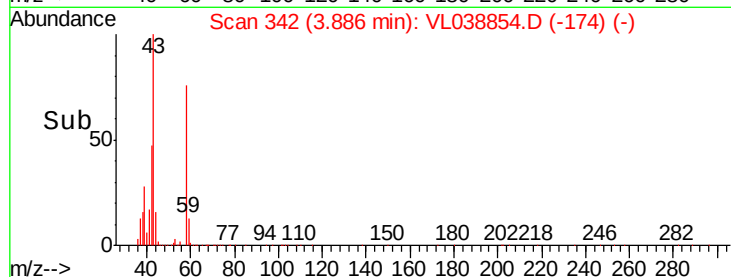
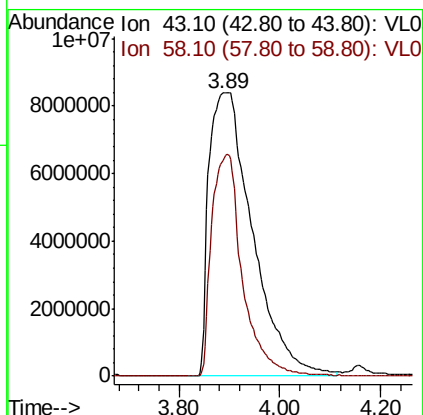
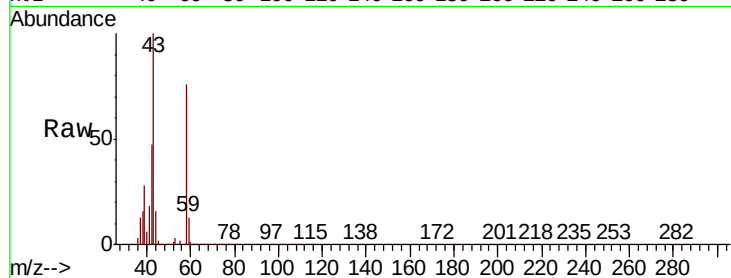


#15
Acetone
Concen: 401.836 ppbv m
RT: 3.89
Instrument : MSVOA_L
Delta R.T.
Lab File: ClientSampleId :
Acq: 7 Apr 2022 23:29

Tot Ion:
Ion Ratio
43 100
58 55.

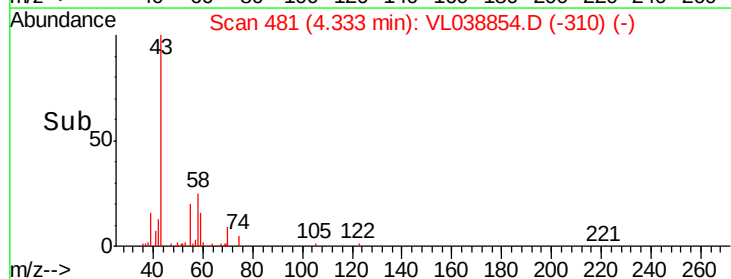
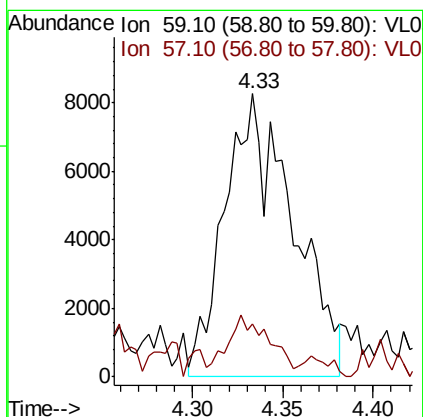
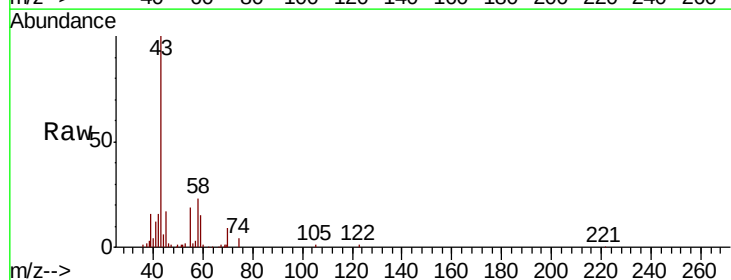
Manual Integrations
APPROVED

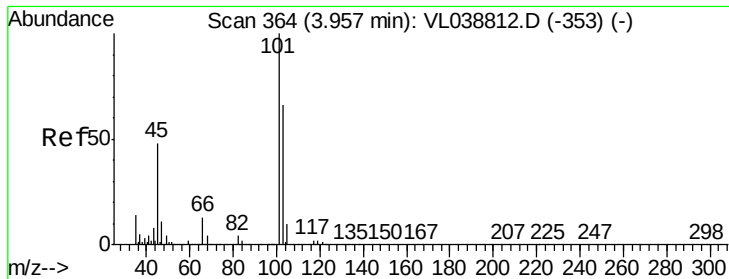
Reviewed By :Semsettin Yesilyurt 04/09/2022
Supervised By :Mahesh Dadoda 04/11/2022



#17
tert-Butyl alcohol
Concen: 0.192 ppbv m
RT: 4.33 min Scan# 481
Delta R.T. 0.05 min
Lab File: VL038854.D
Acq: 7 Apr 2022 23:29

Tgt Ion: 59 Resp: 21680
Ion Ratio Lower Upper
59 100
57 288.2 8.5 12.7#





#19

Isopropyl Alcohol

Concen: 30.987 ppbv

RT: 4.00 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 7 Apr 2022 23:29

Tot Ion:

Ion Ratio

45 100

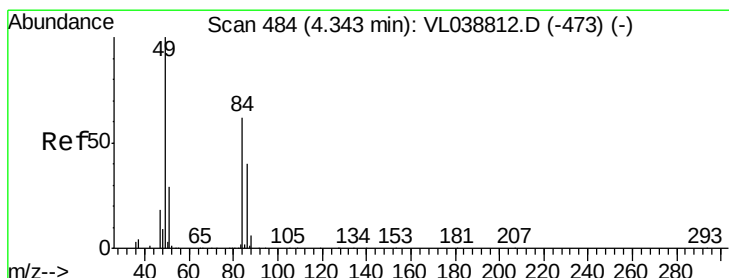
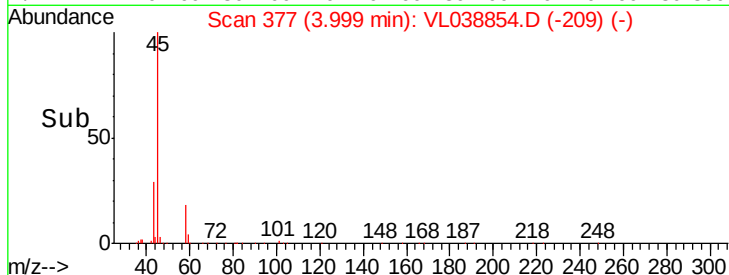
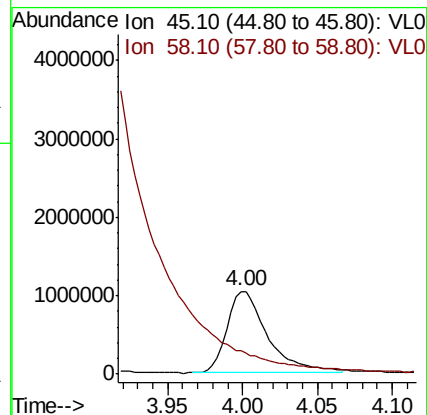
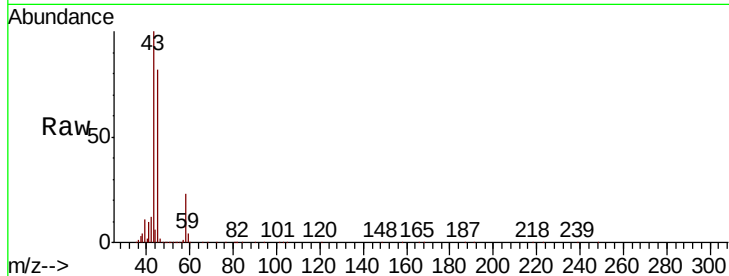
58 0.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/09/2022

Supervised By :Mahesh Dadoda 04/11/2022



#20

Methylene Chloride

Concen: 1.475 ppbv

RT: 4.39 min Scan# 498

Delta R.T. 0.04 min

Lab File: VL038854.D

Acq: 7 Apr 2022 23:29

Tgt Ion: 84 Resp: 67348

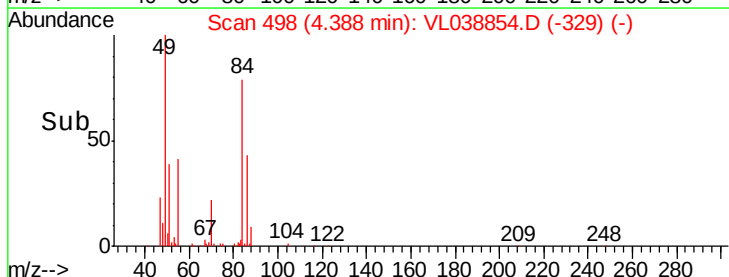
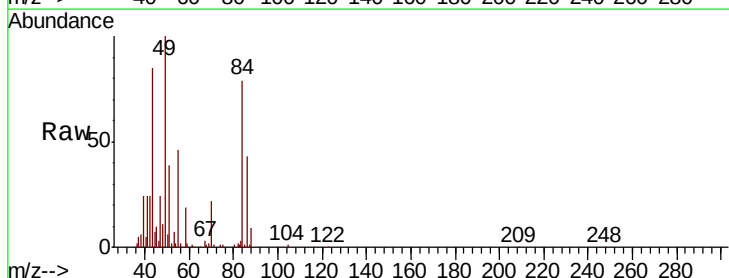
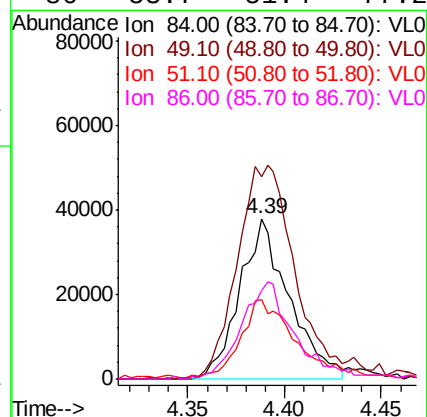
Ion Ratio Lower Upper

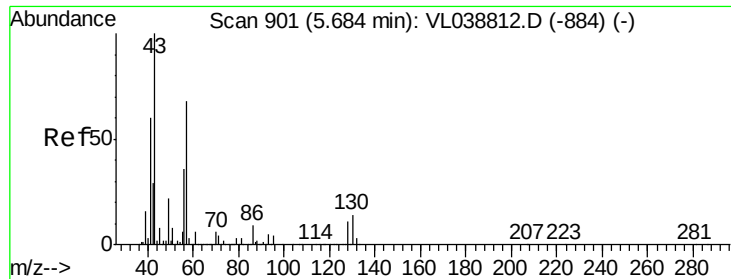
84 100

49 125.0 129.4 194.0#

51 47.3 37.4 56.2

86 53.7 51.4 77.2

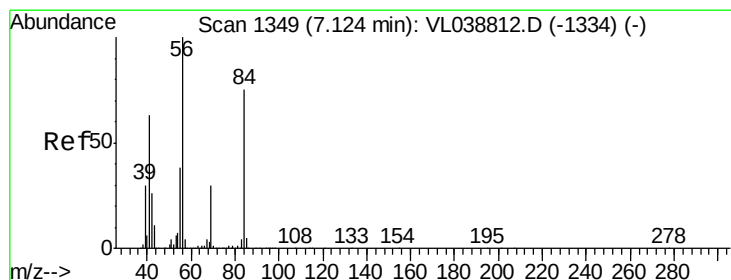
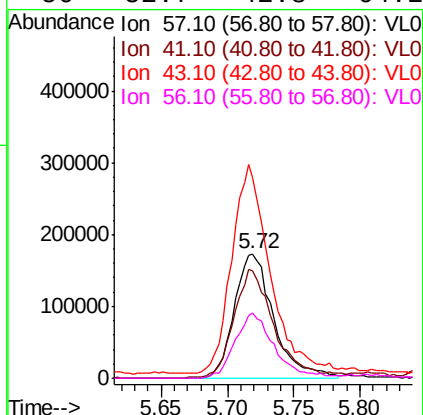
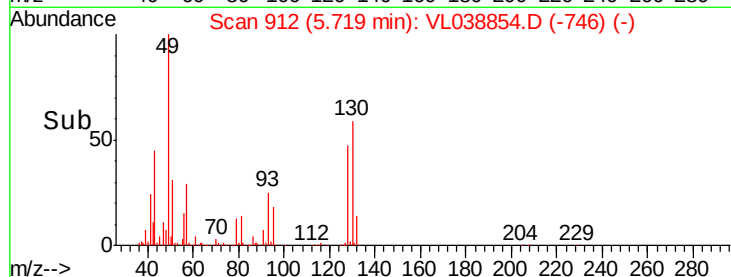
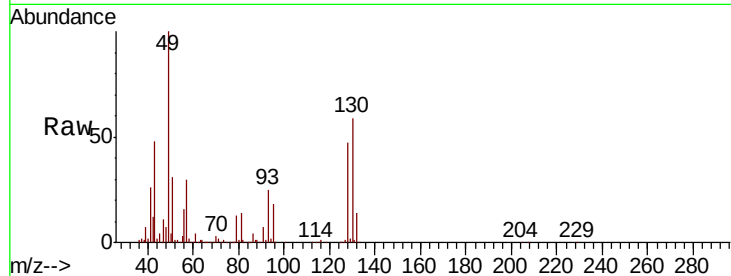




#26
Hexane
Concen: 2.455 ppbv
RT: 5.72
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 7 Apr 2022 23:29

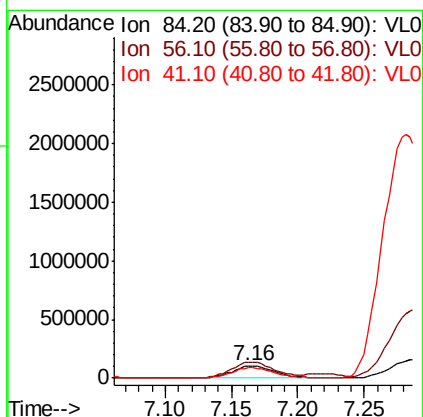
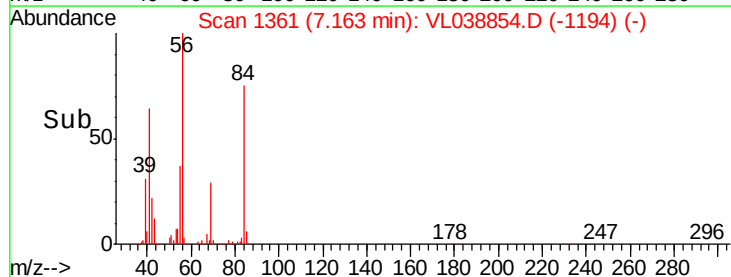
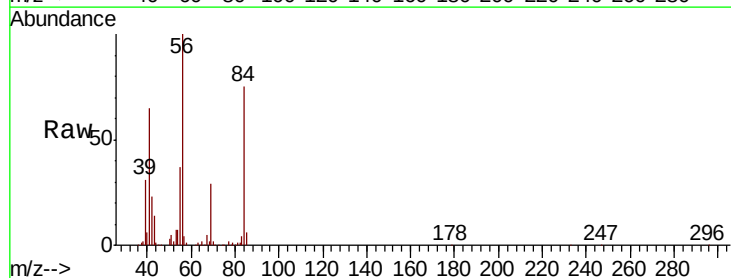
Tot Ion: Manual Integrations
Ion Ratio APPROVED
57 100
41 90.
43 173.
56 52.7 42.8 64.2

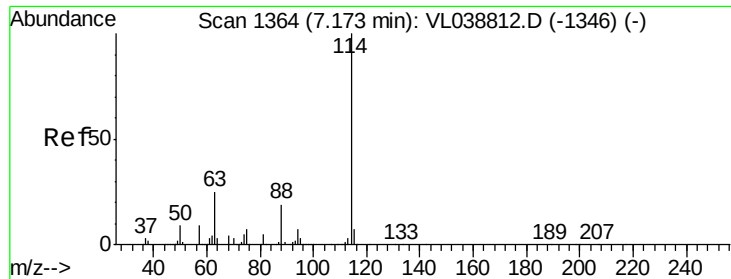
Reviewed By :Semsettin Yesilyurt 04/09/2022
Supervised By :Mahesh Dadoda 04/11/2022



#30
Cyclohexane
Concen: 1.855 ppbv
RT: 7.16 min Scan# 1361
Delta R.T. 0.04 min
Lab File: VL038854.D
Acq: 7 Apr 2022 23:29

Tgt Ion: 84 Resp: 237682
Ion Ratio Lower Upper
84 100
56 130.4 114.4 171.6
41 78.0 69.0 103.4



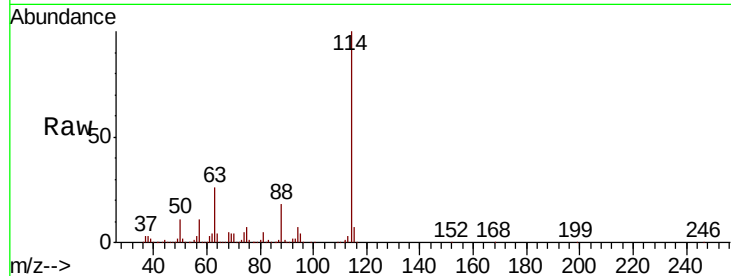


#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.22
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId:
 Acq: 7 Apr 2022 23:29

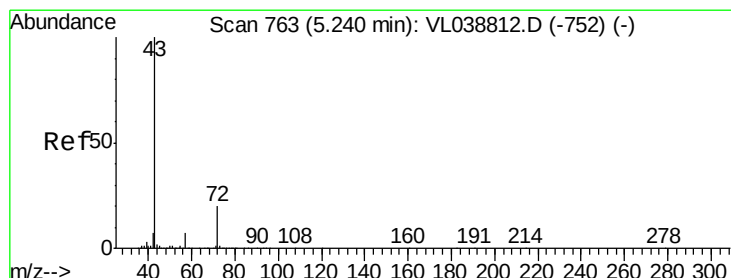
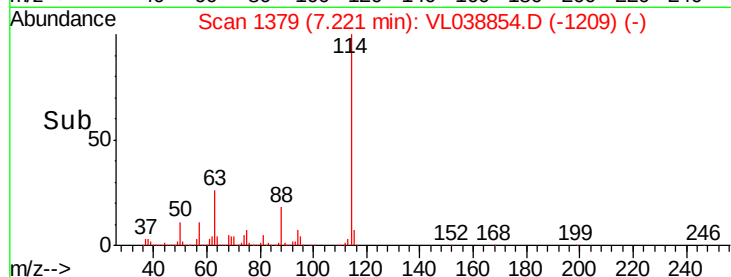
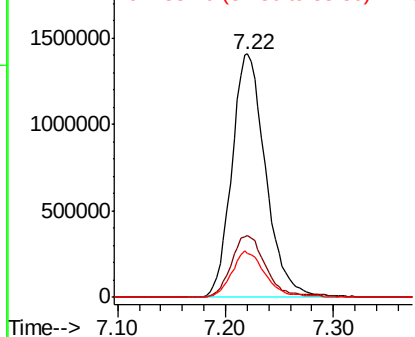
Tot Ion: 1
 Ion Ratio
 114 100
 63 26.
 88 18.

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 Supervised By :Mahesh Dadoda 04/11/2022

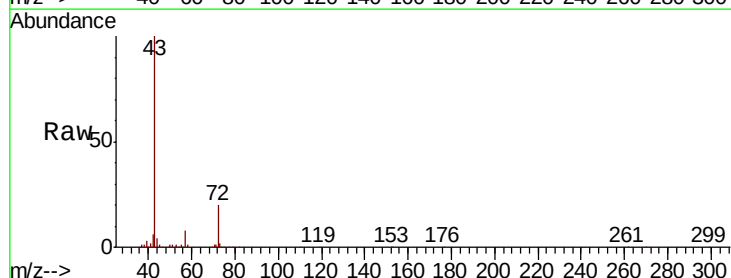


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

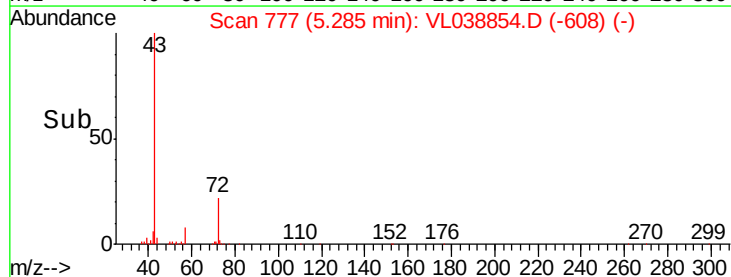
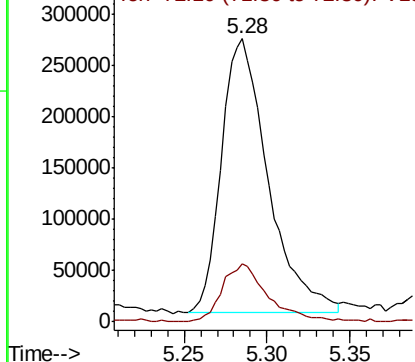


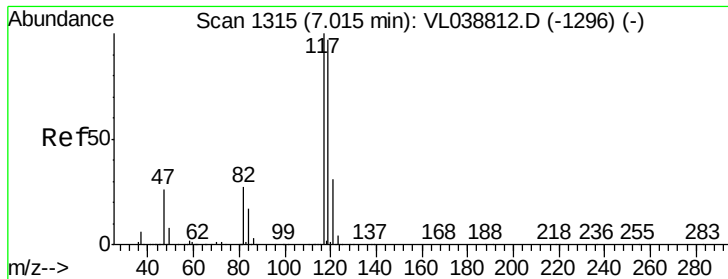
#34
 2-Butanone
 Concen: 4.299 ppbv
 RT: 5.28 min Scan# 777
 Delta R.T. 0.04 min
 Lab File: VL038854.D
 Acq: 7 Apr 2022 23:29

Tgt Ion: 43 Resp: 522098
 Ion Ratio Lower Upper
 43 100
 72 21.3 16.9 25.3



Abundance Ion 43.10 (42.80 to 43.80): VL0
 Ion 72.10 (71.80 to 72.80): VL0



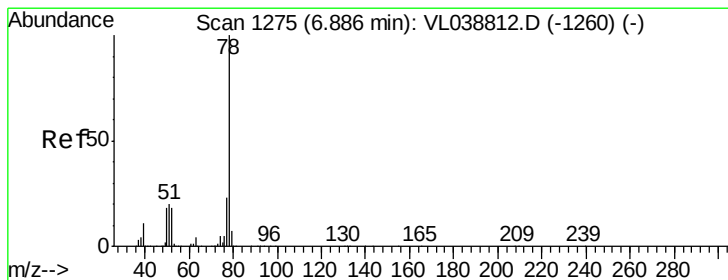
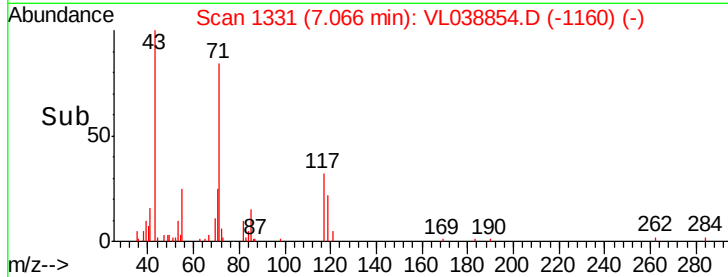
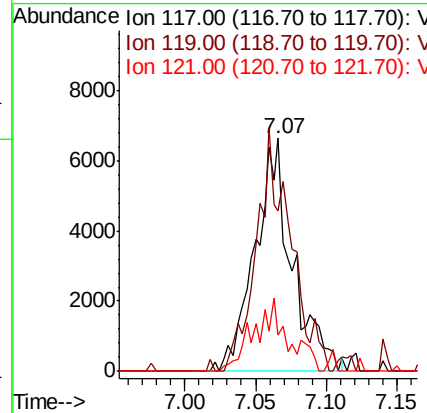
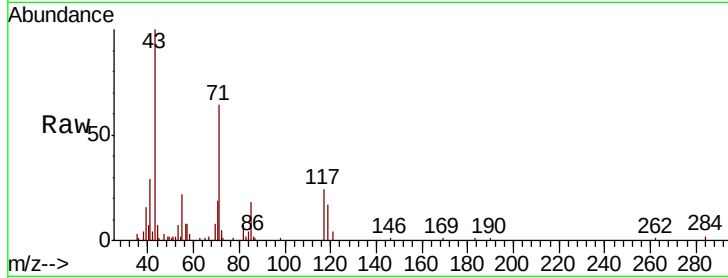


#35
Carbon Tetrachloride
Concen: 0.066 ppbv m
RT: 7.07
Instrument: MSVOA_1
Delta R.T.
Lab File: ClientSampleId :
Acq: 7 Apr 2022 23:29

Tot Ion:1
Ion Rati
117 100
119 68.
121 15.

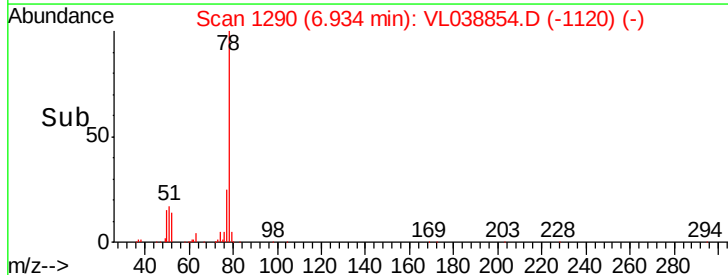
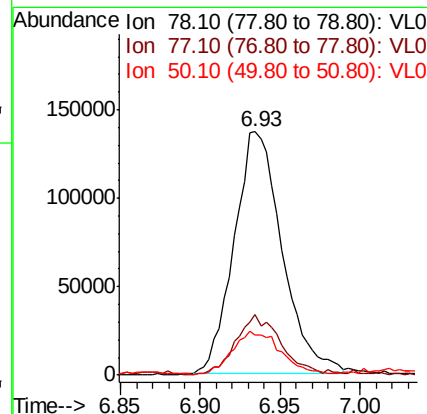
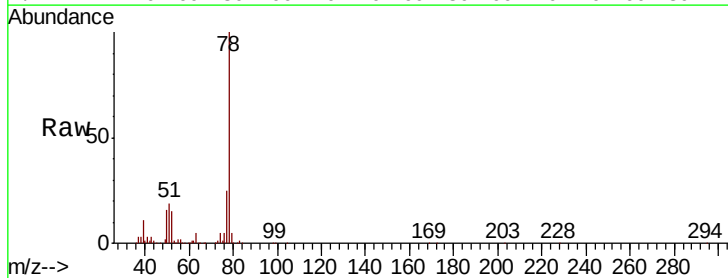
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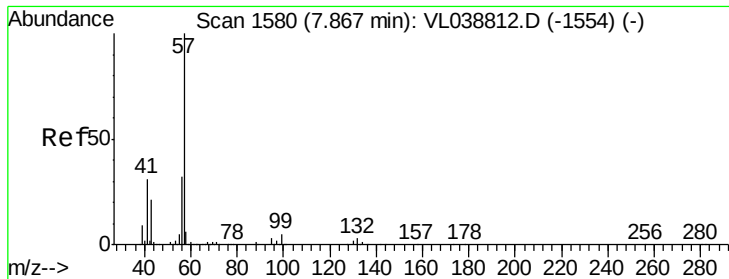
Reviewed By :Semsettin Yesilyurt 04/09/2022
Supervised By :Mahesh Dadoda 04/11/2022



#36
Benzene
Concen: 1.010 ppbv
RT: 6.93 min Scan# 1290
Delta R.T. 0.05 min
Lab File: VL038854.D
Acq: 7 Apr 2022 23:29

Tgt Ion: 78 Resp: 282544
Ion Ratio Lower Upper
78 100
77 24.9 18.2 27.2
50 16.1 14.0 21.0



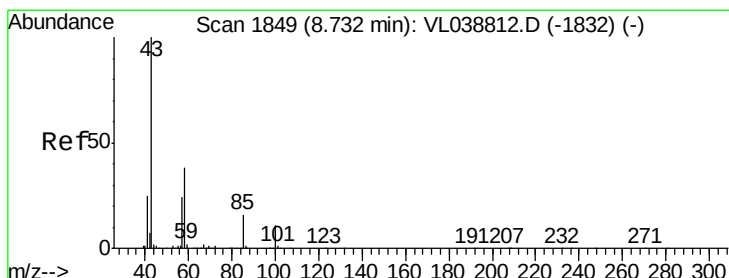
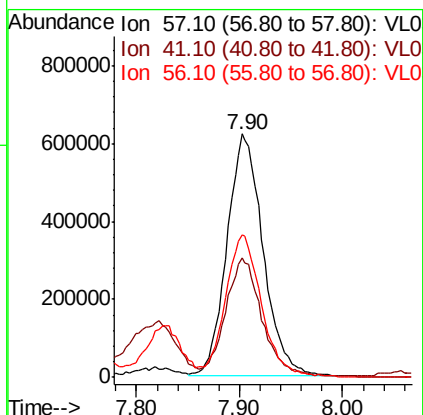
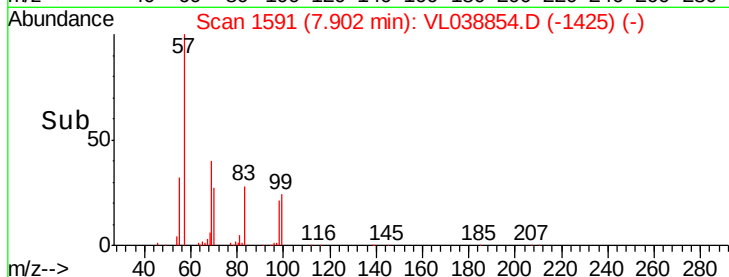
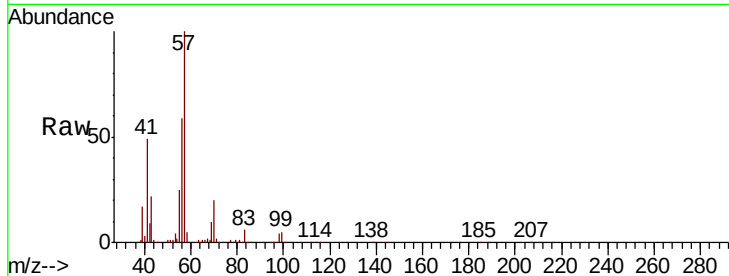


#44
 2,2,4-Trimethylpentane
 Concen: 3.210 ppbv
 RT: 7.90
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 7 Apr 2022 23:29

Tot Ion:
 Ion Ratio
 57 100
 41 49.
 56 58.

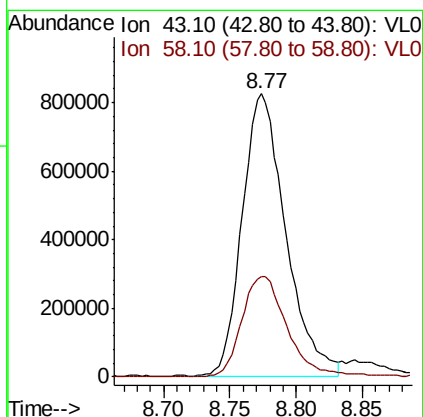
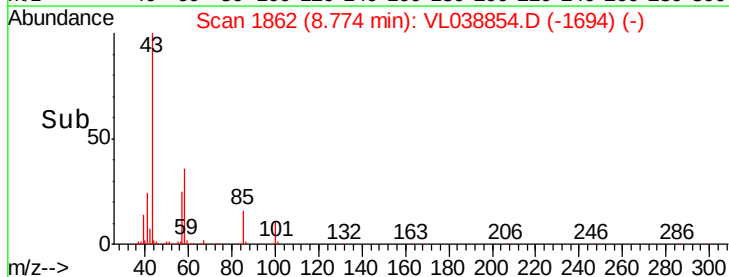
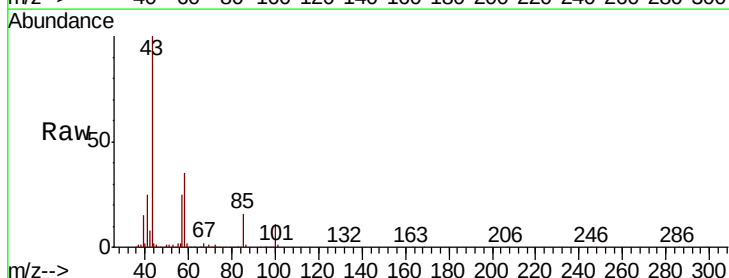
Manual Integrations
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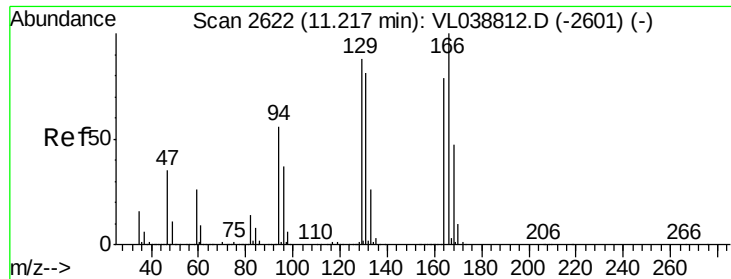
Reviewed By :Semsettin Yesilyurt 04/09/2022
 Supervised By :Mahesh Dadoda 04/11/2022



#50
 4-Methyl-2-Pentanone
 Concen: 6.864 ppbv
 RT: 8.77 min Scan# 1862
 Delta R.T. 0.04 min
 Lab File: VL038854.D
 Acq: 7 Apr 2022 23:29

Tgt Ion: 43 Resp: 1875259
 Ion Ratio Lower Upper
 43 100
 58 37.5 29.0 43.6





#52

Tetrachloroethene

Concen: 1.258 ppbv

RT: 11.27

Delta R.T. MSVOA_L

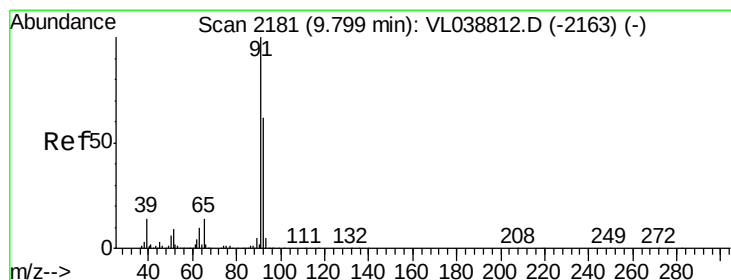
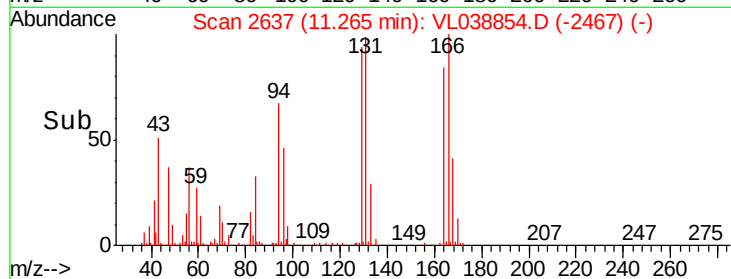
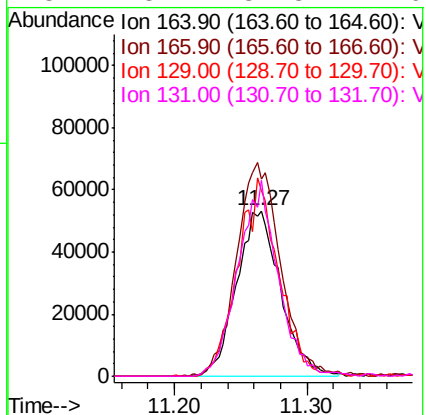
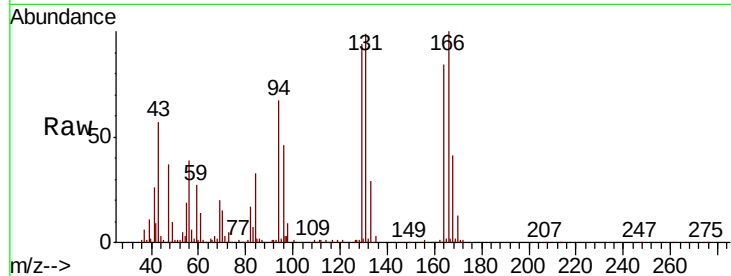
Lab File: ClientSampleId :

Acq: 7 Apr 2022 23:29

Tot Ion:1
Ion Rati
164 100
166 119.
129 112.
131 118.2 81.8 122.6

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Reviewed By :Semsettin Yesilyurt 04/09/2022
Supervised By :Mahesh Dadoda 04/11/2022



#53

Toluene

Concen: 5.733 ppbv

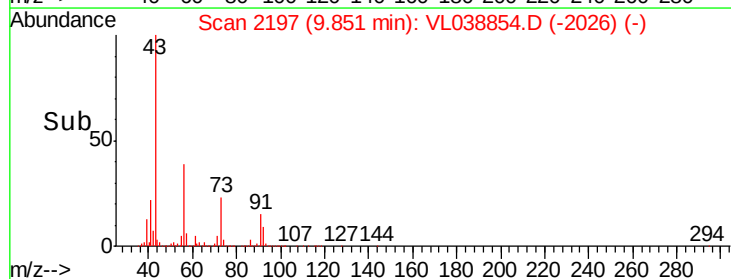
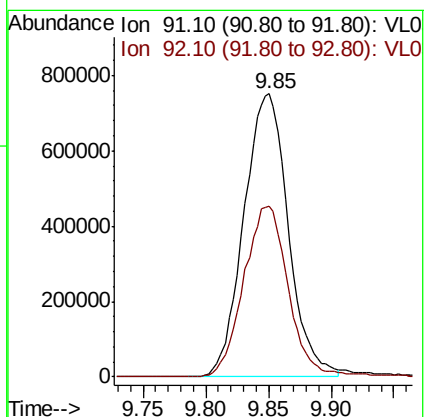
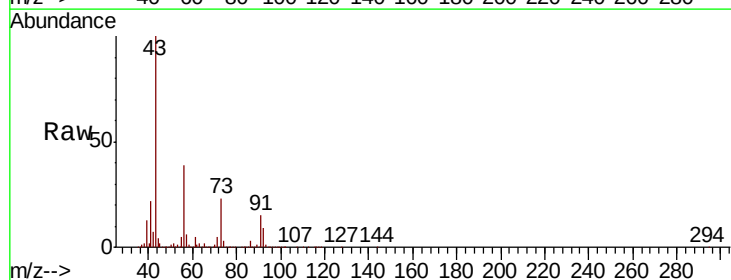
RT: 9.85 min Scan# 2197

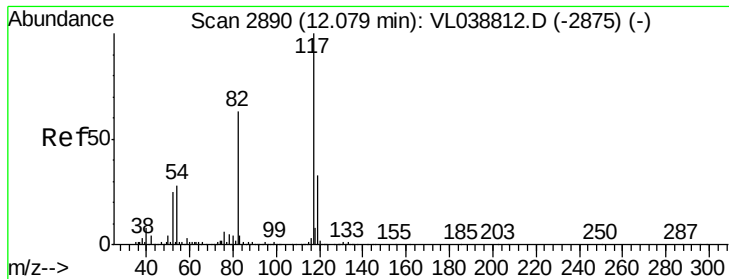
Delta R.T. 0.05 min

Lab File: VL038854.D

Acq: 7 Apr 2022 23:29

Tgt Ion: 91 Resp: 1850471
Ion Ratio Lower Upper
91 100
92 61.3 49.2 73.8



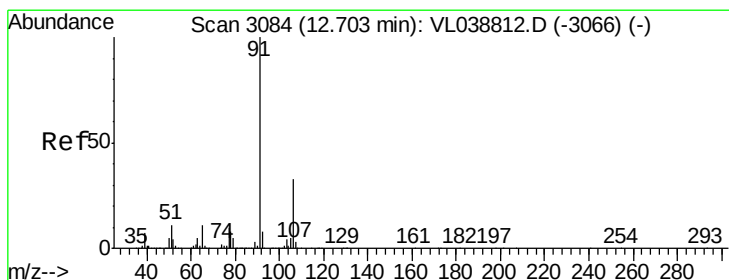
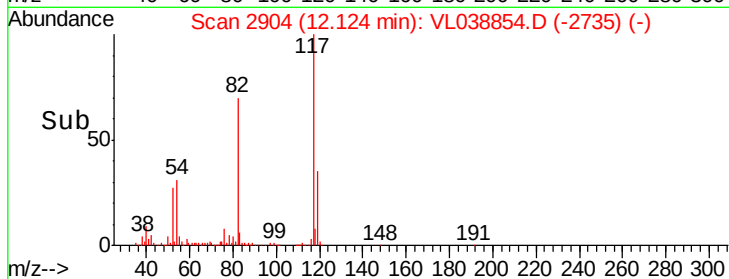
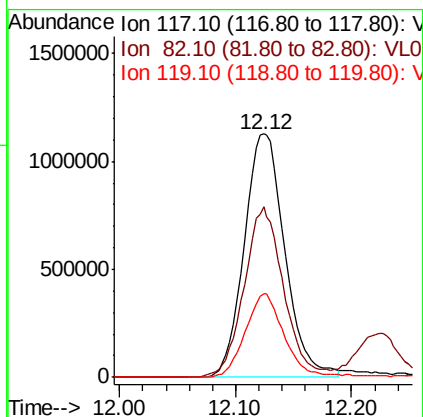
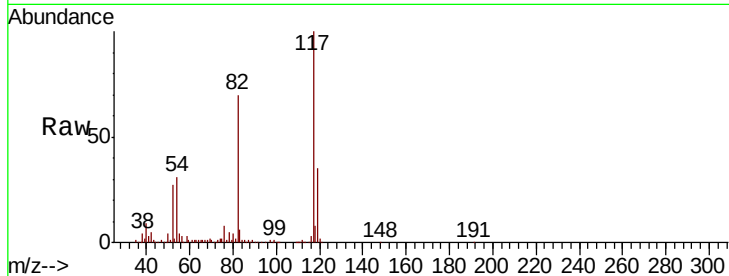


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.12 min
Instrument: MSVOA_1
Delta R.T.: 0.04 min
Lab File: ClientSampleId : 1160-1-SG-3
Acq: 7 Apr 2022 23:29

Tot Ion: 1
Ion Ratio
117 100
82 68.
119 34.

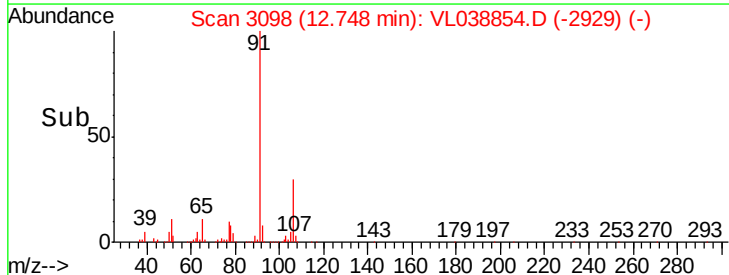
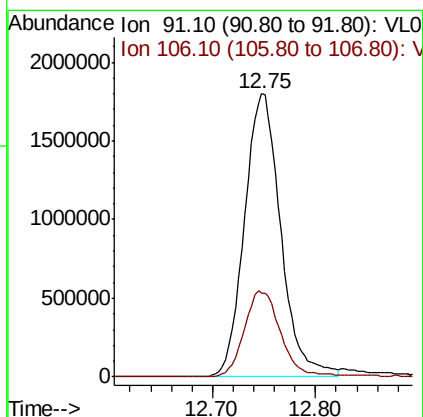
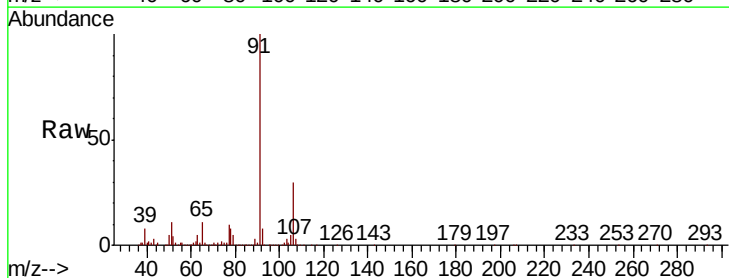
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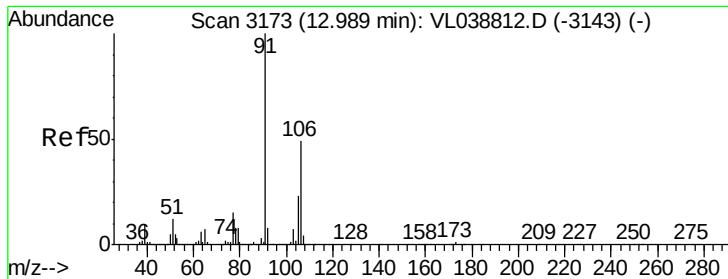
Reviewed By : Semsettin Yesilyurt 04/09/2022
Supervised By : Mahesh Dadoda 04/11/2022



#58
Ethyl Benzene
Concen: 10.727 ppbv
RT: 12.75 min Scan# 3098
Delta R.T.: 0.04 min
Lab File: VL038854.D
Acq: 7 Apr 2022 23:29

Tgt Ion: 91 Resp: 4401855
Ion Ratio Lower Upper
91 100
106 29.8 26.7 40.1



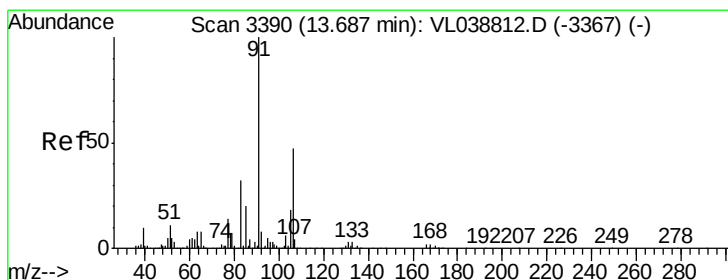
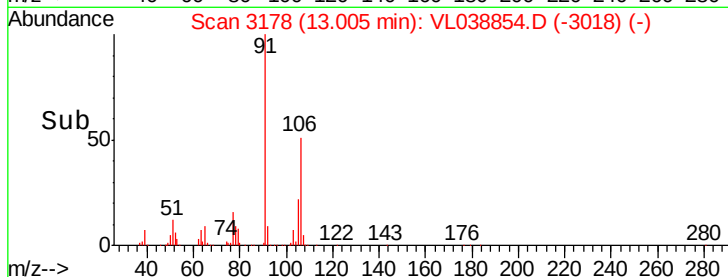
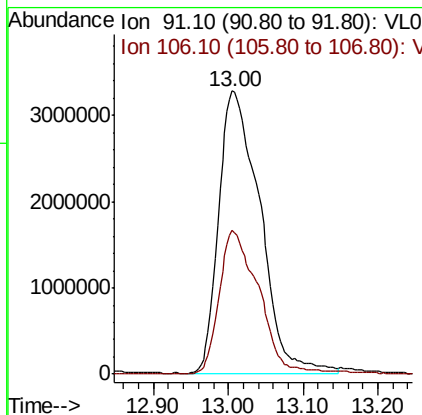
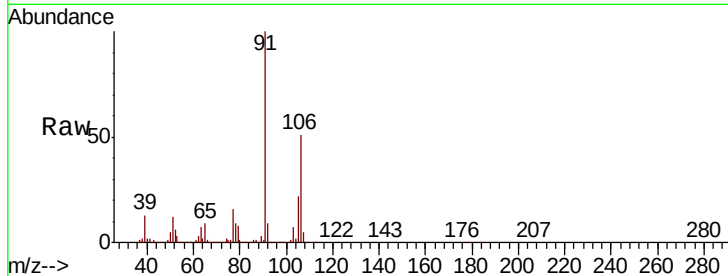


#59
m/p-Xylene
Concen: 36.191 ppbv
RT: 13.00 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 7 Apr 2022 23:29

Tot Ion:
Ion Ratio
91 100
106 49.

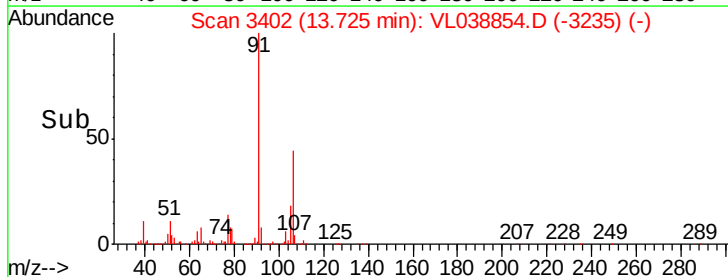
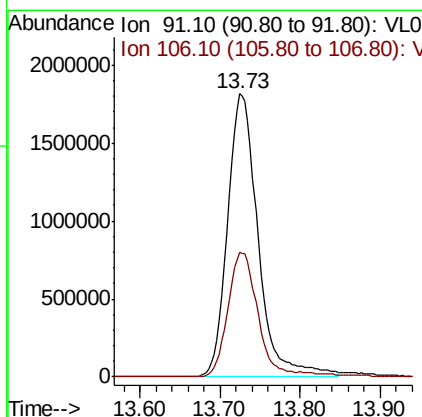
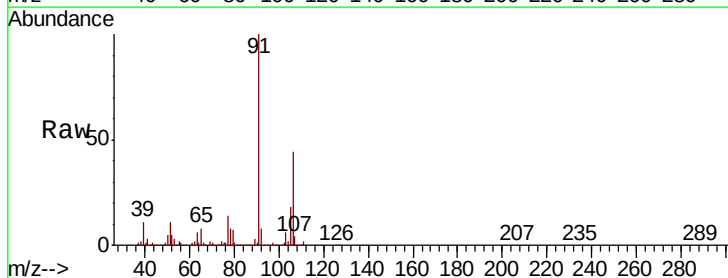
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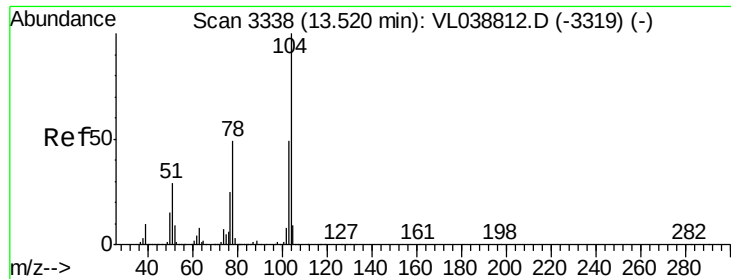
Reviewed By :Semsettin Yesilyurt 04/09/2022
Supervised By :Mahesh Dadoda 04/11/2022



#60
o-Xylene
Concen: 14.646 ppbv
RT: 13.73 min Scan# 3402
Delta R.T.: 0.04 min
Lab File: VL038854.D
Acq: 7 Apr 2022 23:29

Tgt Ion: 91 Resp: 4724612
Ion Ratio Lower Upper
91 100
106 44.6 23.8 71.4



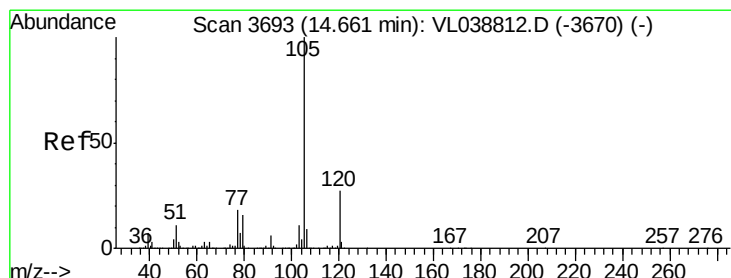
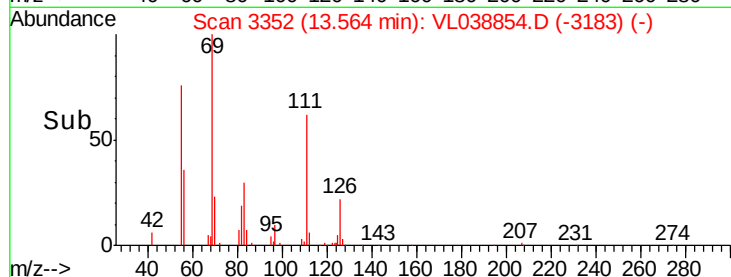
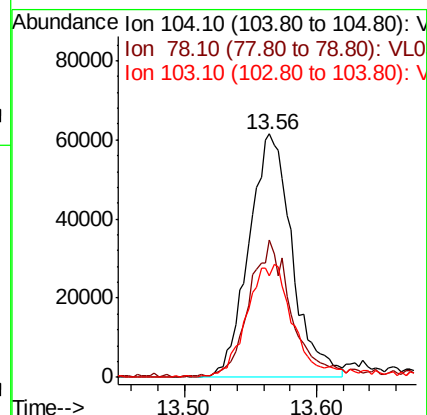
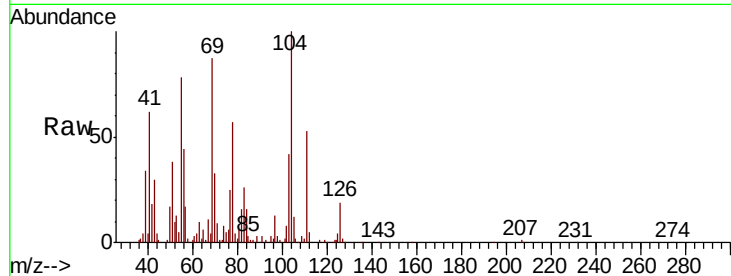


#61
Stvrene
Concen: 0.712 ppbv
RT: 13.56
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 7 Apr 2022 23:29

Tot Ion:1
Ion Rati
104 100
78 56.
103 51.

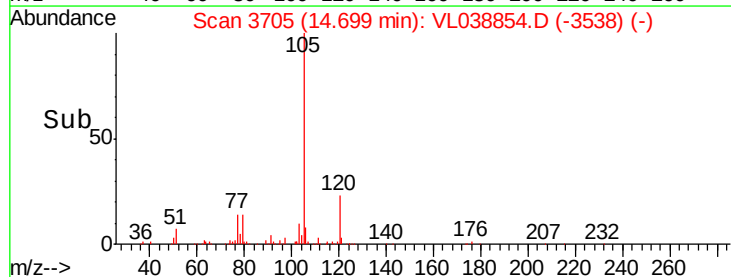
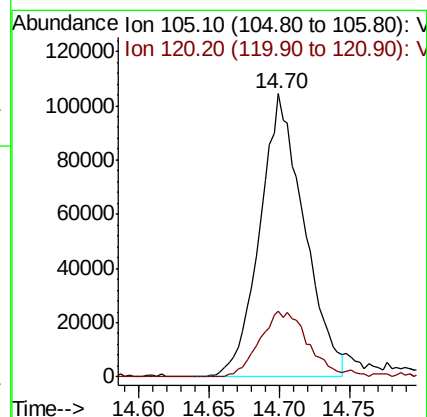
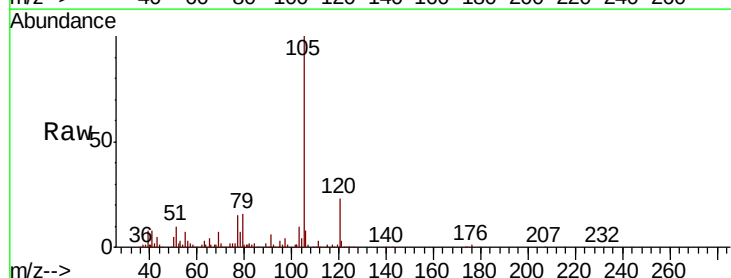
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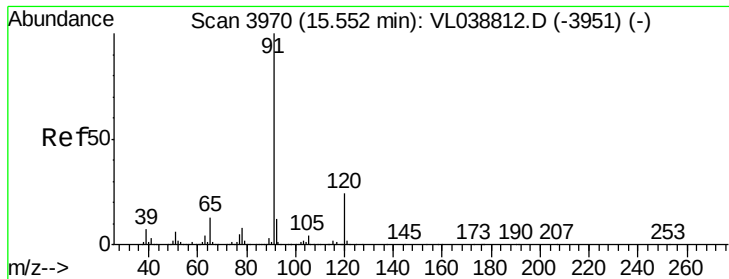
Reviewed By :Semsettin Yesilyurt 04/09/2022
Supervised By :Mahesh Dadoda 04/11/2022



#62
Isopropylbenzene
Concen: 0.472 ppbv
RT: 14.70 min Scan# 3705
Delta R.T. 0.04 min
Lab File: VL038854.D
Acq: 7 Apr 2022 23:29

Tgt Ion:105 Resp: 228486
Ion Ratio Lower Upper
105 100
120 25.7 21.8 32.8





#64

n-propylbenzene

Concen: 1.704 ppbv

RT: 15.59

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 7 Apr 2022 23:29

Tot Ion:1

Ion Rati

120 100

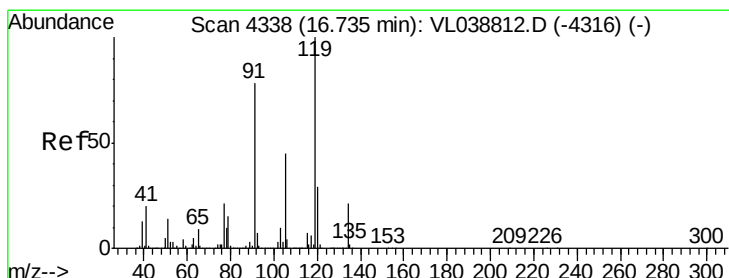
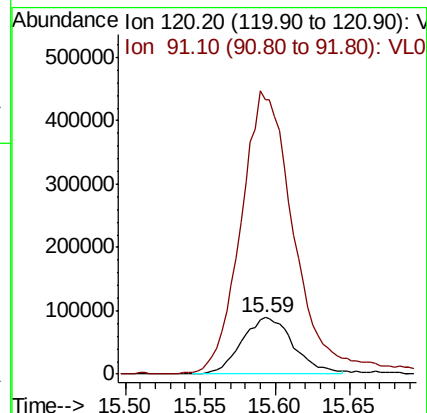
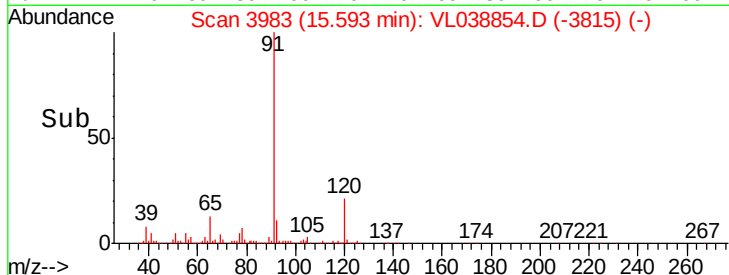
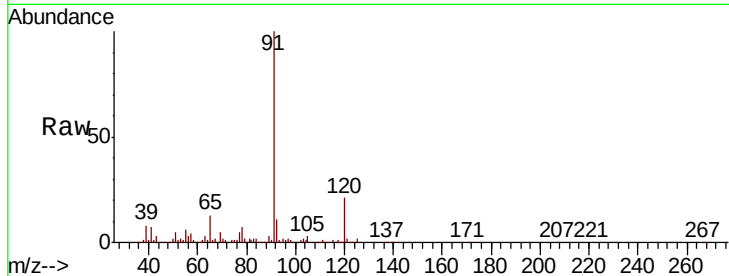
91 522.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/09/2022

Supervised By :Mahesh Dadoda 04/11/2022



#65

tert-Butylbenzene

Concen: 0.882 ppbv

RT: 16.80 min Scan# 4357

Delta R.T. 0.06 min

Lab File: VL038854.D

Acq: 7 Apr 2022 23:29

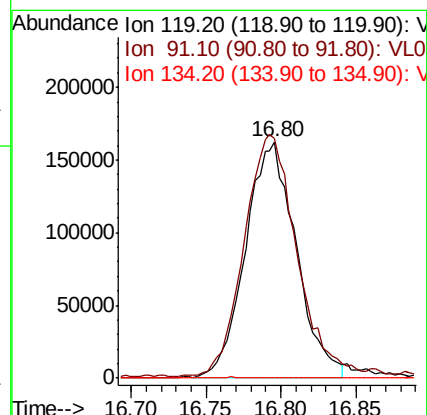
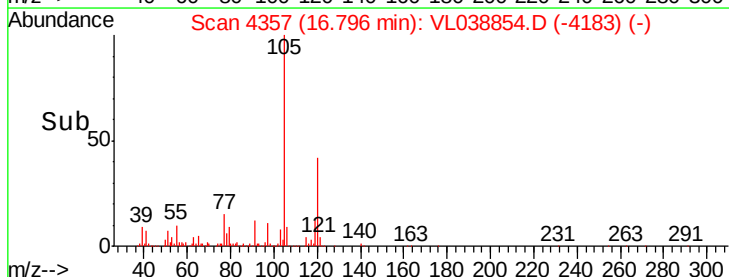
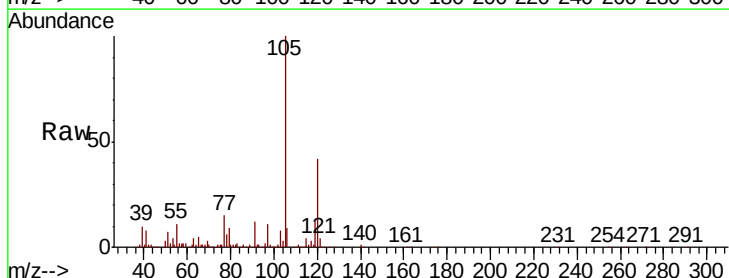
Tgt Ion:119 Resp: 378959

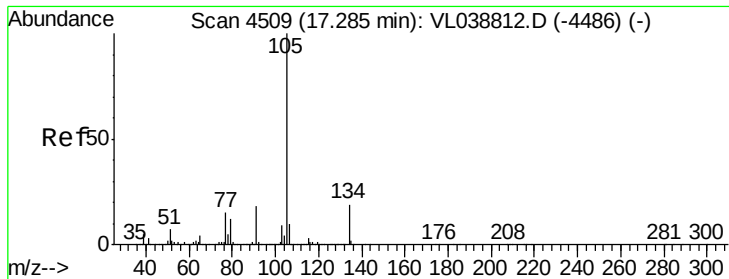
Ion Ratio Lower Upper

119 100

91 110.7 62.8 94.2#

134 0.1 16.2 24.4#





#67

sec-Butylbenzene

Concen: 0.131 ppbv

RT: 17.32

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 7 Apr 2022 23:29

Tot Ion:1

Ion Rati

105 100

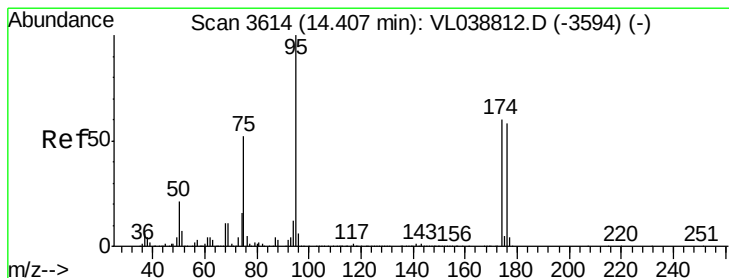
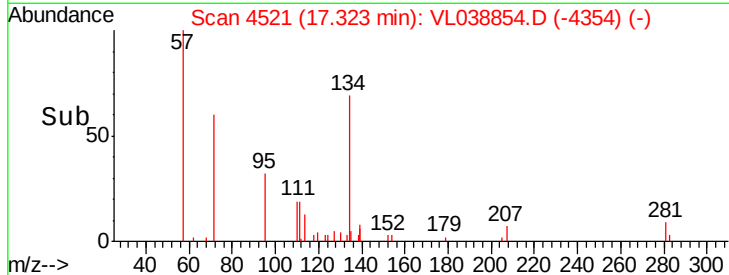
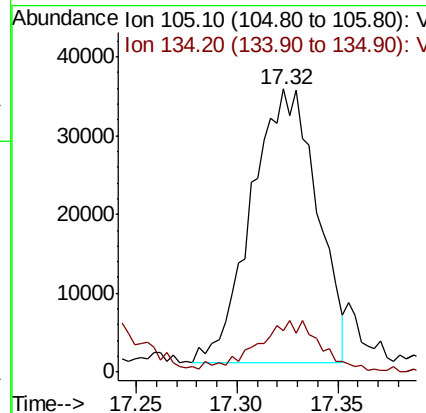
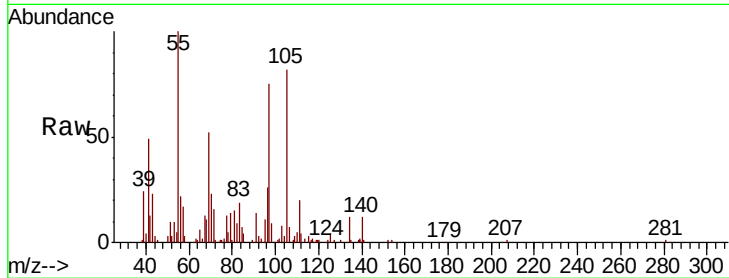
134 18.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/09/2022

Supervised By :Mahesh Dadoda 04/11/2022



#68

1-Bromo-4-Fluorobenzene

Concen: 10.245 ppbv

RT: 14.45 min Scan# 3627

Delta R.T. 0.04 min

Lab File: VL038854.D

Acq: 7 Apr 2022 23:29

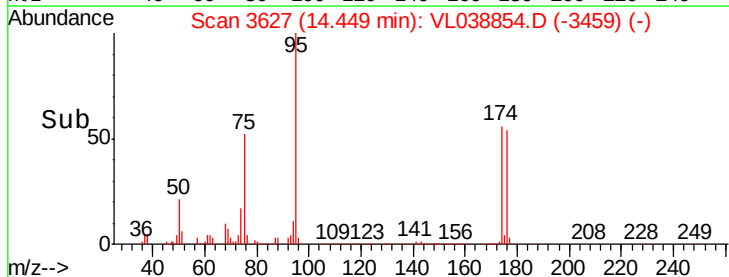
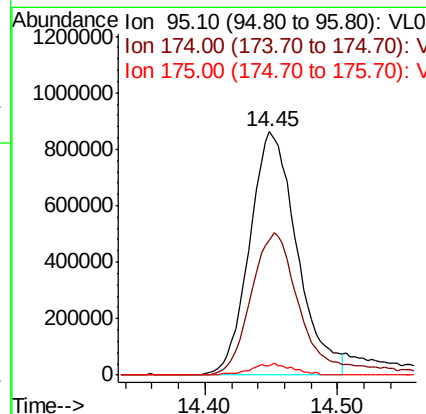
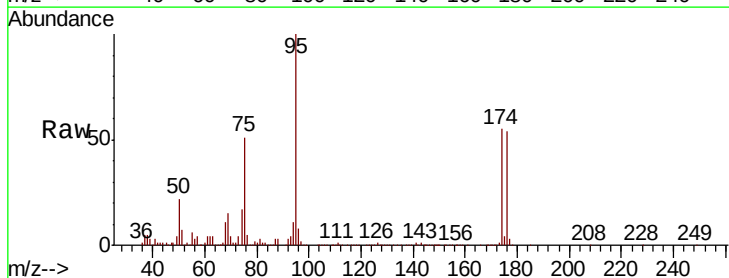
Tgt Ion: 95 Resp: 2134070

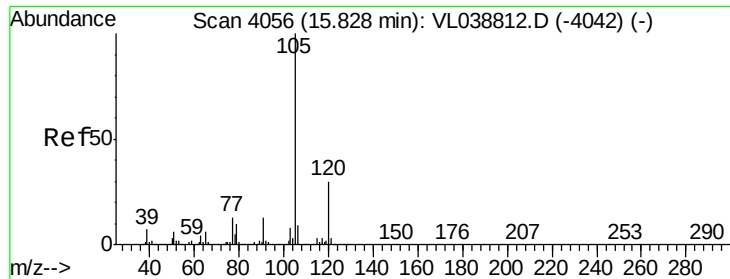
Ion Ratio Lower Upper

95 100

174 64.2 52.0 78.0

175 4.7 4.0 6.0



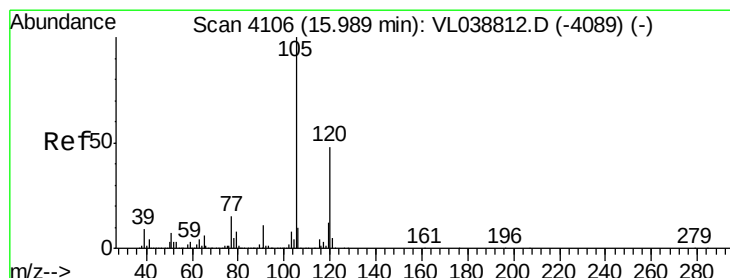
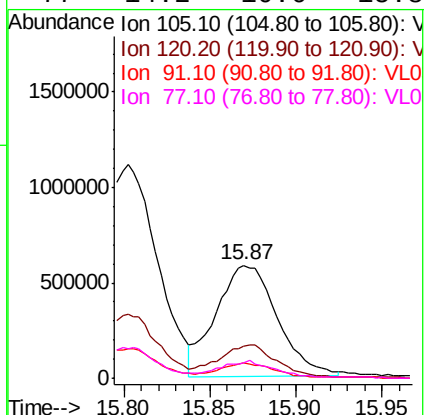
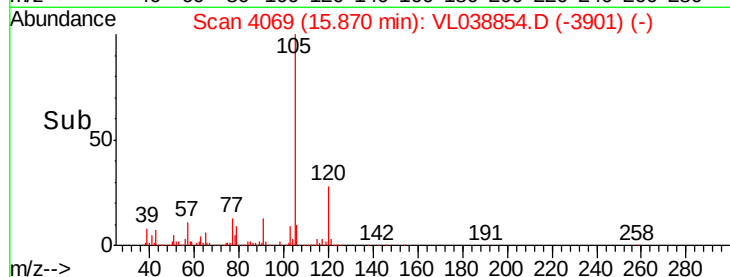
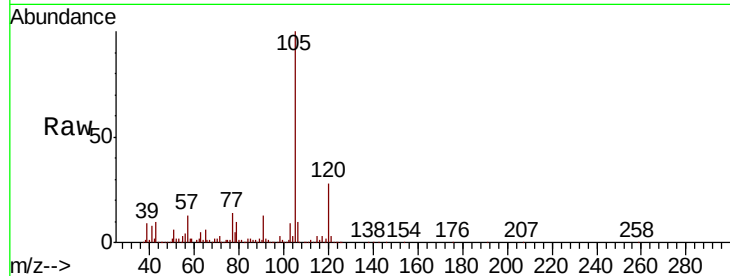


#72
4-Ethyltoluene
Concen: 3.800 ppbv
RT: 15.87 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId : 1160-1-SG-3
Acq: 7 Apr 2022 23:29

Tot Ion: 1
Ion Ratio
105 100
120 30.
91 13.
77 14.2 10.6 15.8

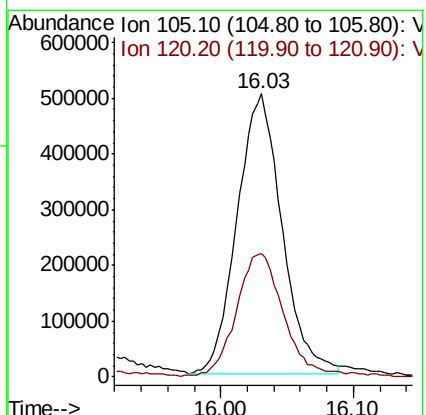
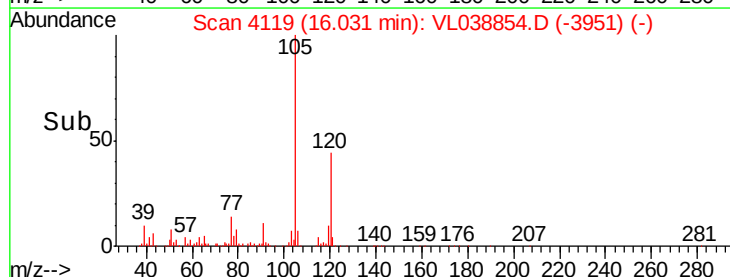
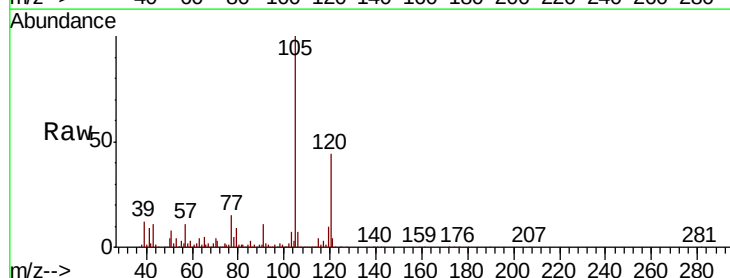
Manual Integrations
APPROVED

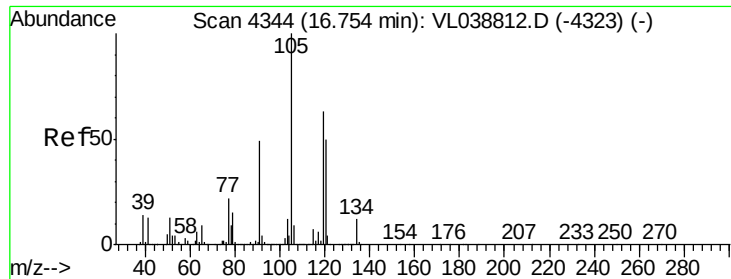
Reviewed By : Semsettin Yesilyurt 04/09/2022
Supervised By : Mahesh Dadoda 04/11/2022



#73
1,3,5-Trimethylbenzene
Concen: 3.408 ppbv
RT: 16.03 min Scan# 4119
Delta R.T.: 0.04 min
Lab File: VL038854.D
Acq: 7 Apr 2022 23:29

Tgt Ion: 105 Resp: 1179385
Ion Ratio Lower Upper
105 100
120 43.3 38.7 58.1





#74

1,2,4-Trimethylbenzene

Concen: 9.652 ppbv

RT: 16.80

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 7 Apr 2022 23:29

Tot Ion:1

Ion Ratio

105 100

120 42.

91 11.

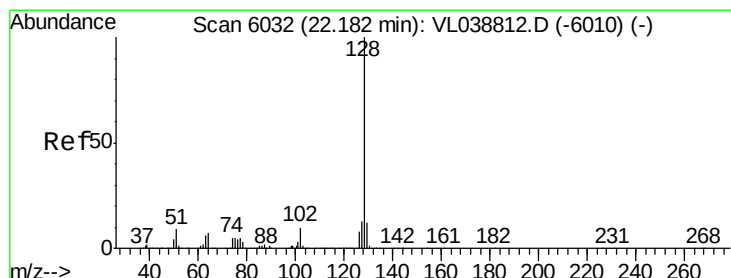
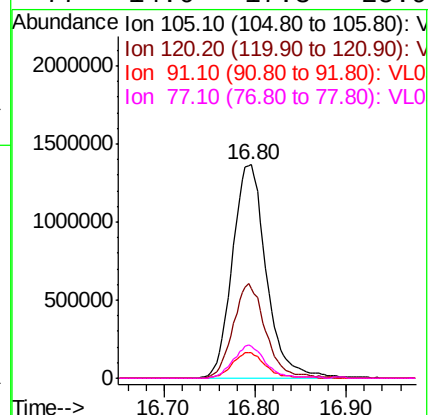
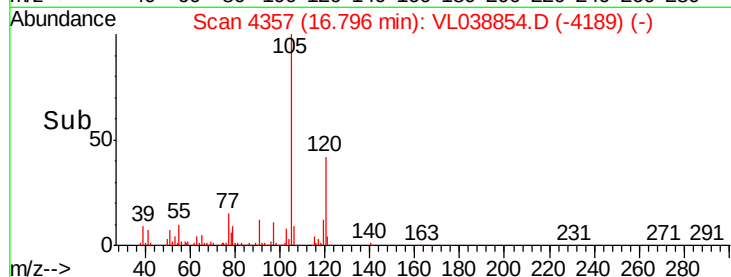
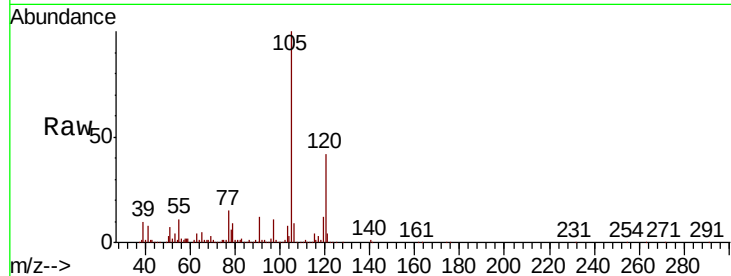
77 14.6 17.3 25.9#

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/09/2022

Supervised By :Mahesh Dadoda 04/11/2022



#79

Naphthalene

Concen: 0.138 ppbv m

RT: 22.24 min Scan# 6050

Delta R.T. 0.06 min

Lab File: VL038854.D

Acq: 7 Apr 2022 23:29

Tgt Ion:128 Resp: 37867

Ion Ratio Lower Upper

128 100

127 8.4 10.6 15.8#

129 8.6 9.4 14.0#

