

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL041321\
 Data File : VL036807.D
 Acq On : 13 Apr 2021 17:36
 Operator : SY/AP
 Sample : M2018-01
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA L
 ClientSampleId :
 SG1

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/14/2021
 Supervised By :Mahesh Dadoda 04/14/2021

Quant Time: Apr 14 09:18:53 2021

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032521A

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

QLast Update : Thu Mar 25 09:42:40 2021

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1418724	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	3552681	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	2978419	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.42	95	2095690	8.83	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	88.30%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	3.04	85	31178	0.135 ppbv	92
3) Chlorodifluoromethane	2.99	51	35081m	0.132 ppbv	
4) Chloromethane	3.14	50	26204	0.280 ppbv #	84
9) Propene	3.02	41	403597	4.776 ppbv #	76
10) Heptane	8.13	43	2344256	10.890 ppbv	99
11) Trichlorofluoromethane	3.95	101	36767m	0.156 ppbv	
13) Ethanol	3.62	45	631720	62.777 ppbv	95
15) Acetone	3.84	43	14482783	103.718 ppbv #	90
17) tert-Butyl alcohol	4.31	59	177458	1.460 ppbv	96
19) Isopropyl Alcohol	3.99	45	738025	9.608 ppbv #	89
20) Methylene Chloride	4.35	84	2713498	41.505 ppbv	94
26) Hexane	5.69	57	2189173	14.210 ppbv #	47
27) Carbon Disulfide	4.55	76	530602	3.496 ppbv	97
28) Methyl tert-Butyl Ether	5.04	73	23104m	0.127 ppbv	
29) Chloroform	5.76	83	91729	0.372 ppbv	92
30) Cyclohexane	7.13	84	132653	1.062 ppbv	97
34) 2-Butanone	5.25	43	501859	2.894 ppbv	97
35) Carbon Tetrachloride	7.02	117	9359m	0.034 ppbv	
36) Benzene	6.89	78	266519	0.813 ppbv	91
52) Tetrachloroethene	11.21	164	6199m	0.051 ppbv	
53) Toluene	9.81	91	2552105	7.314 ppbv	100
58) Ethyl Benzene	12.71	91	412793	0.953 ppbv #	88
59) m/p-Xylene	12.97	91	1061834	2.809 ppbv	95
60) o-Xylene	13.69	91	314180	0.860 ppbv	100
61) Styrene	13.53	104	332142	1.807 ppbv	99
62) Isopropylbenzene	14.68	105	6363378	12.930 ppbv	99
72) 4-Ethyltoluene	15.84	105	134020	0.335 ppbv	95
73) 1,3,5-Trimethylbenzene	16.00	105	83829m	0.224 ppbv	
74) 1,2,4-Trimethylbenzene	16.77	105	279712	0.699 ppbv #	66

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

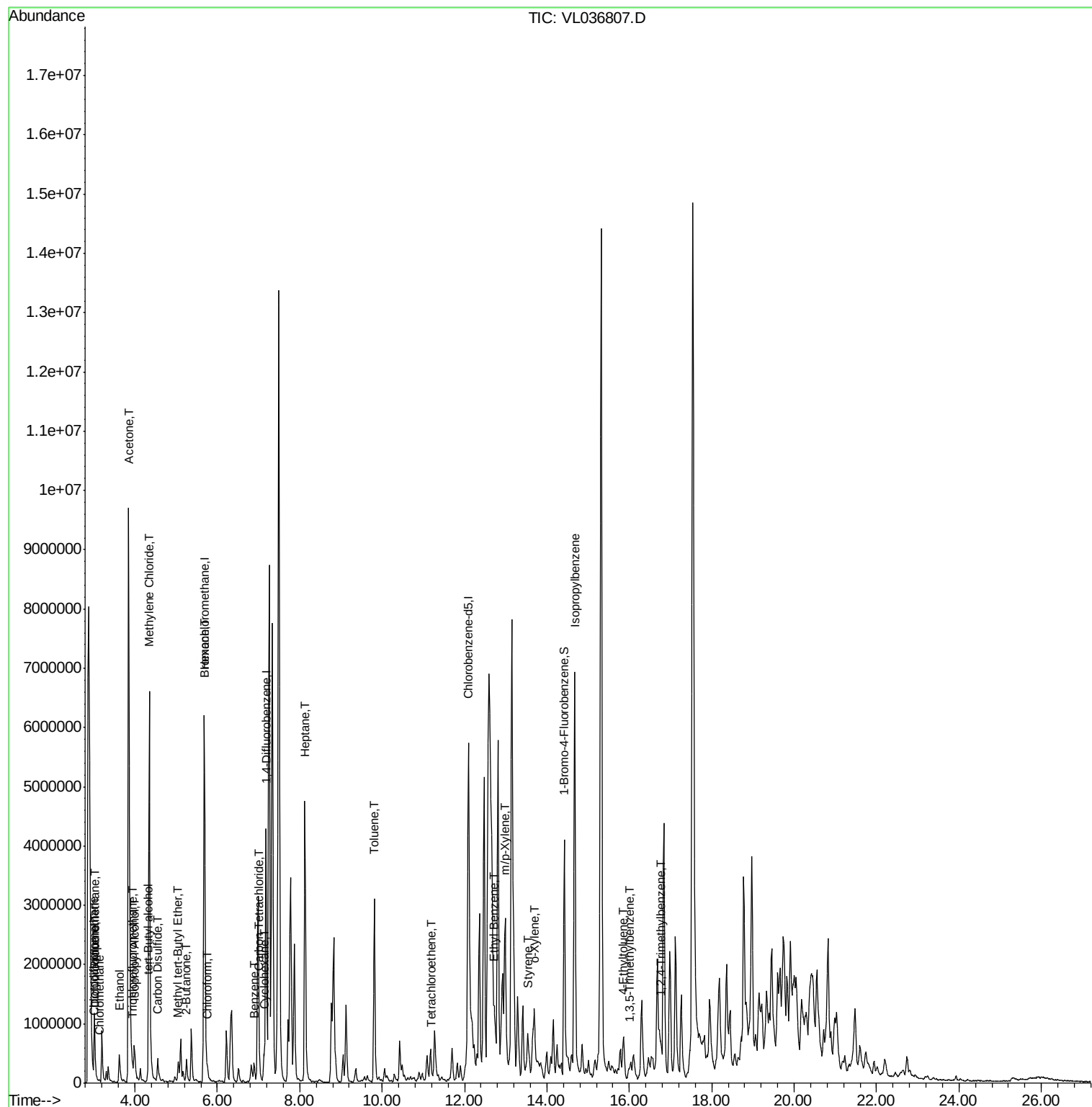
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL041321\
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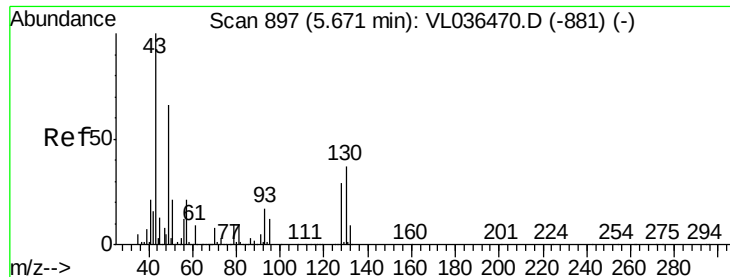
Instrument :
MSVOA_L
ClientSampleId :
SG1

Quant Time: Apr 14 09:18:53 2021
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL032521
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Supervised By :Mahesh Dadoda 04/14/2021





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 Instrument :

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 13 Apr 2021 17:30 SG1

Tot Ion:

Ion Ratio

49 100

128 46.

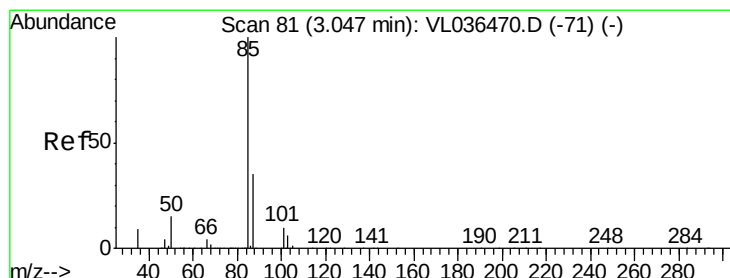
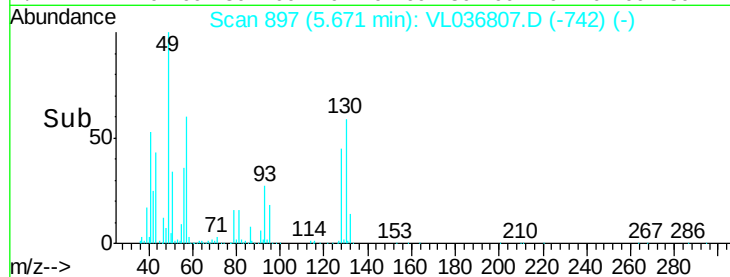
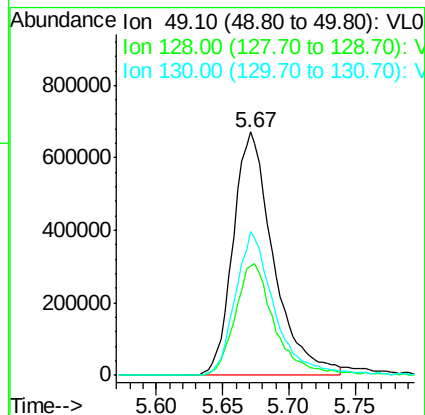
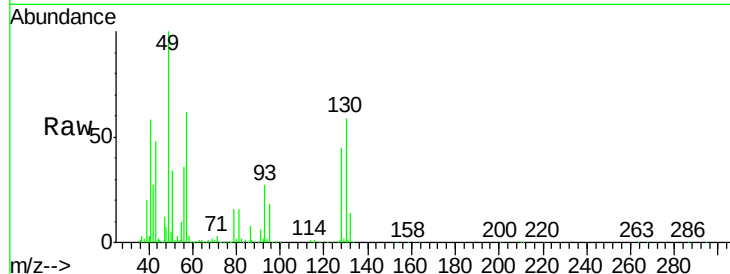
130 57.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/14/2021

Supervised By :Mahesh Dadoda 04/14/2021



#2

Dichlorodifluoromethane

Concen: 0.135 ppbv

RT: 3.04 min Scan# 80

Delta R.T. -0.00 min

Lab File: VL036807.D

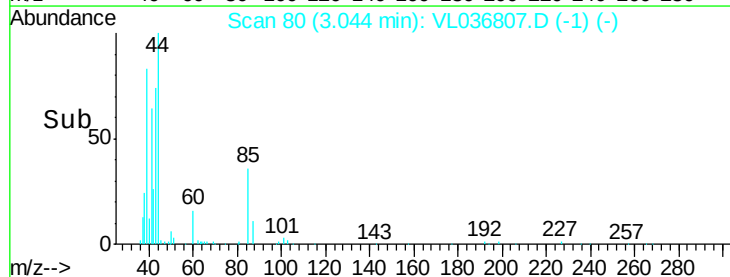
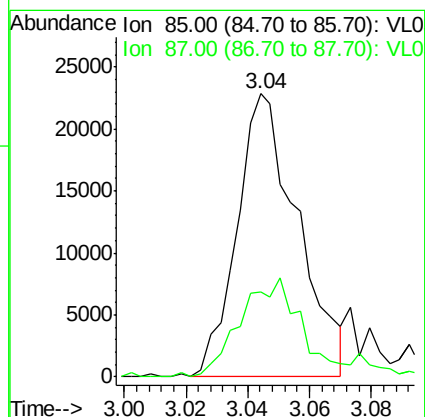
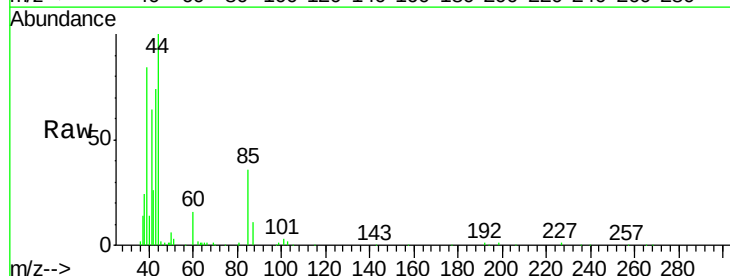
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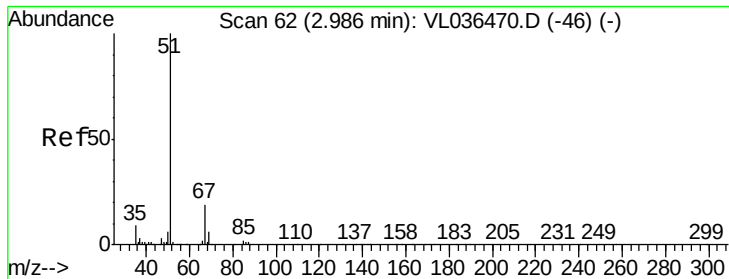
Tgt Ion: 85 Resp: 31178

Ion Ratio Lower Upper

85 100

87 30.0 27.8 41.8





#3

Chlorodifluoromethane

Concen: 0.132 ppbv m

RT: 2.99 Instrument :

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 13 Apr 2021 17:30 SG1

Tot Ion:

Ion Ratio

51 100

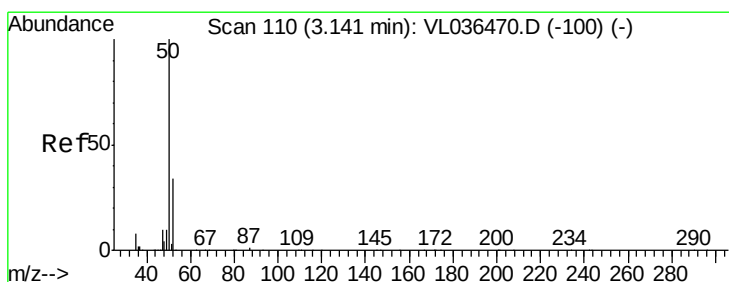
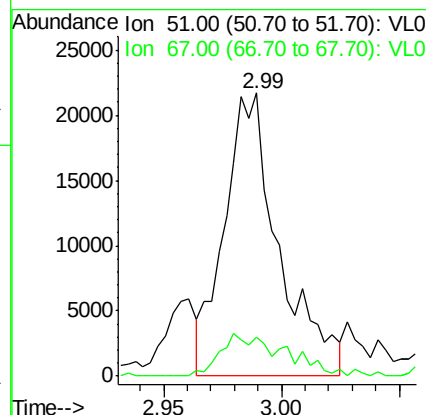
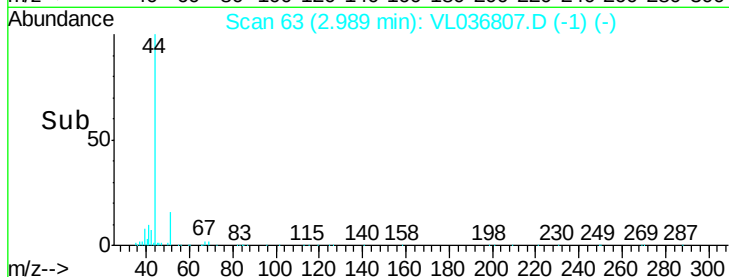
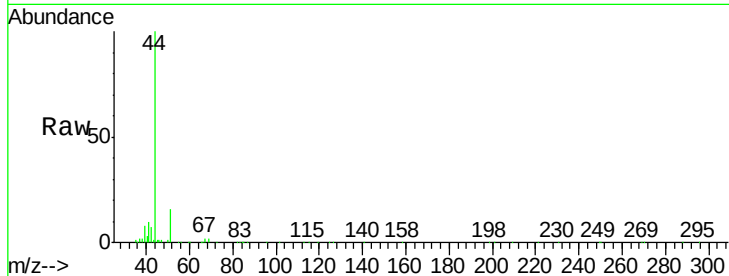
67 0.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/14/2021

Supervised By :Mahesh Dadoda 04/14/2021



#4

Chloromethane

Concen: 0.280 ppbv

RT: 3.14 min Scan# 109

Delta R.T. -0.00 min

Lab File: VL036807.D

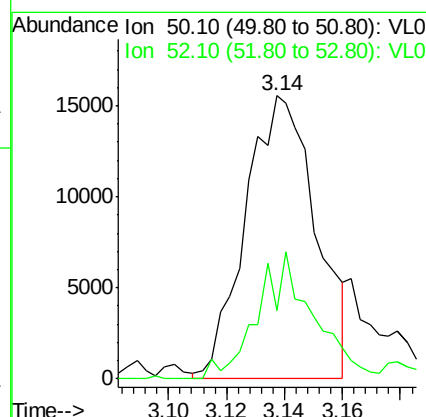
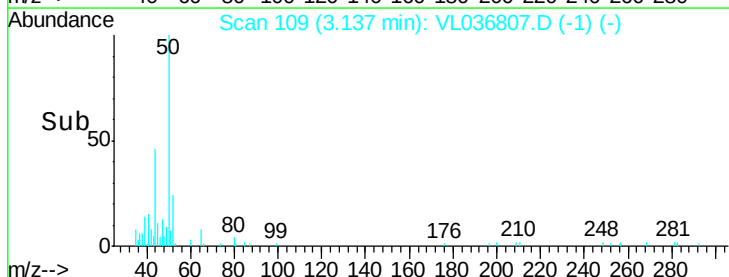
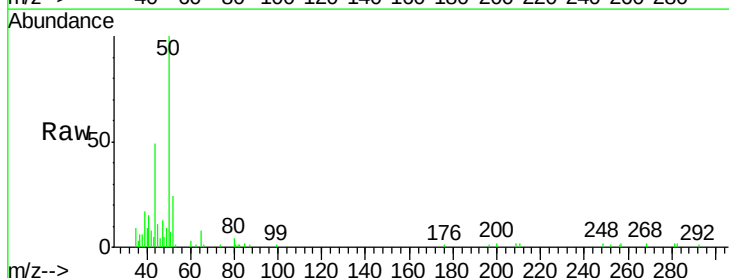
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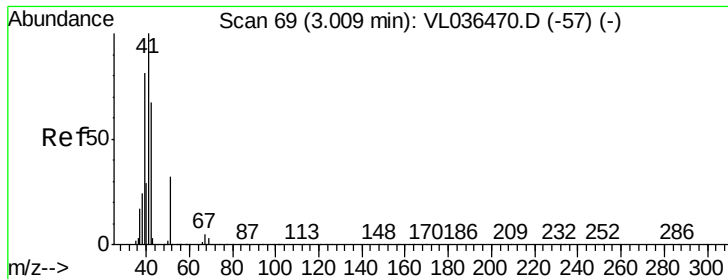
Tgt Ion: 50 Resp: 26204

Ion Ratio Lower Upper

50 100

52 24.7 27.0 40.6#



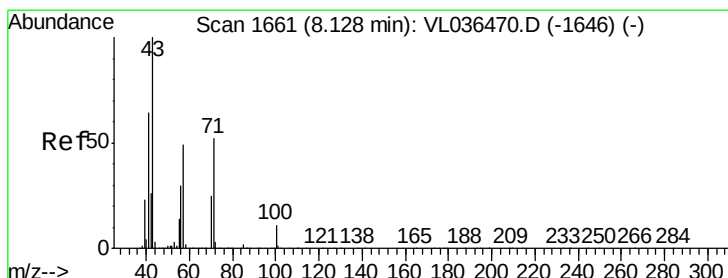
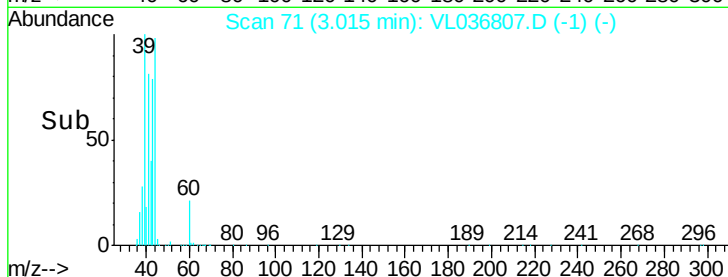
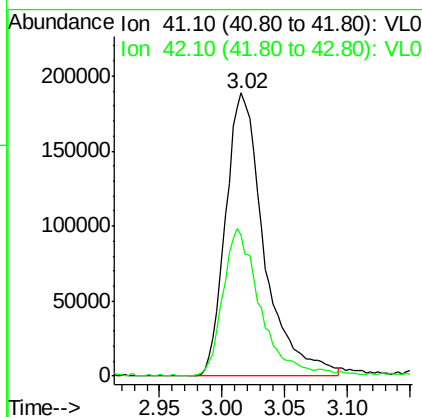
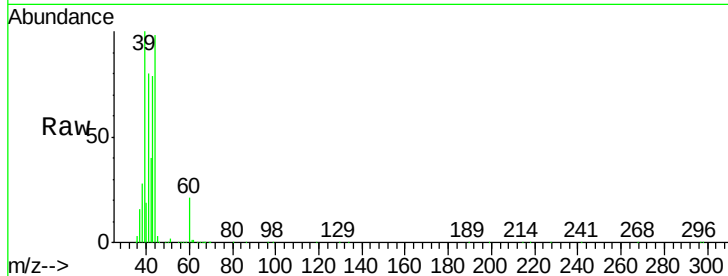


#9
 Propene
 Concen: 4.776 ppbv
 RT: 3.02
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 13 Apr 2021 17:36

Tot Ion:
 Ion Ratio
 41 100
 42 51.

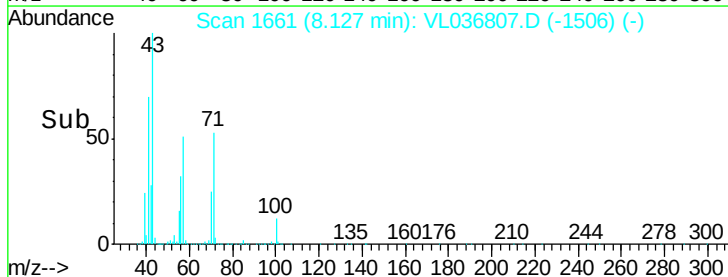
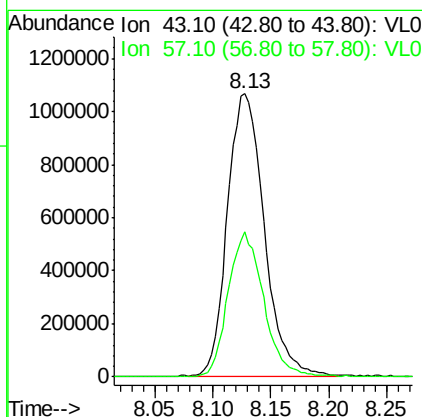
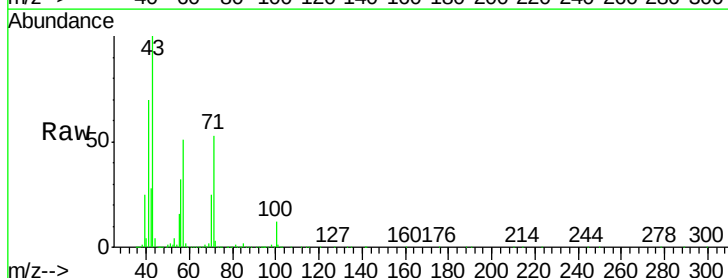
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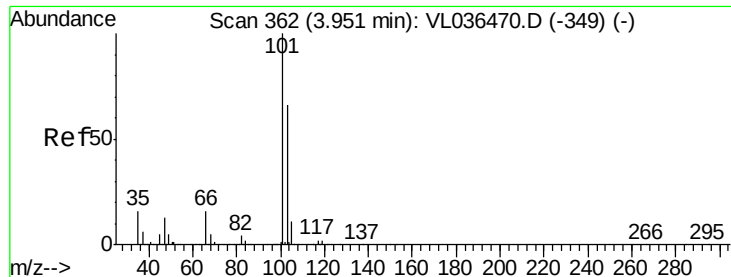
Reviewed By :Semsettin Yesilyurt 04/14/2021
 Supervised By :Mahesh Dadoda 04/14/2021



#10
 Heptane
 Concen: 10.890 ppbv
 RT: 8.13 min Scan# 1661
 Delta R.T. -0.00 min
 Lab File: VL036807.D
 Acq: 13 Apr 2021 17:36

Tgt Ion: 43 Resp: 2344256
 Ion Ratio Lower Upper
 43 100
 57 49.8 39.0 58.6



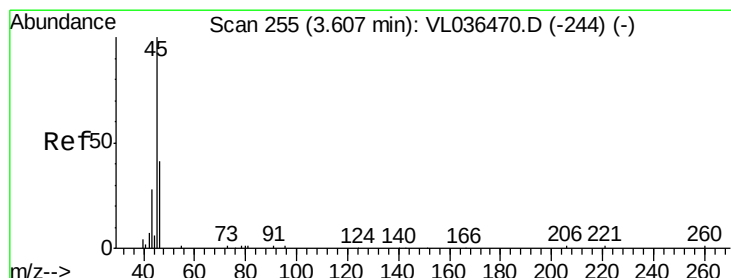
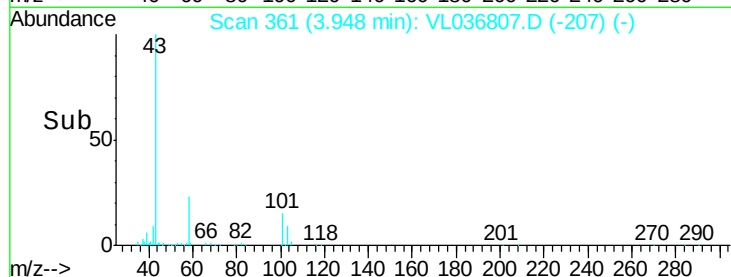
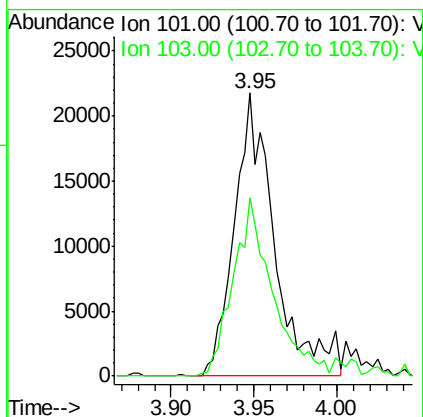
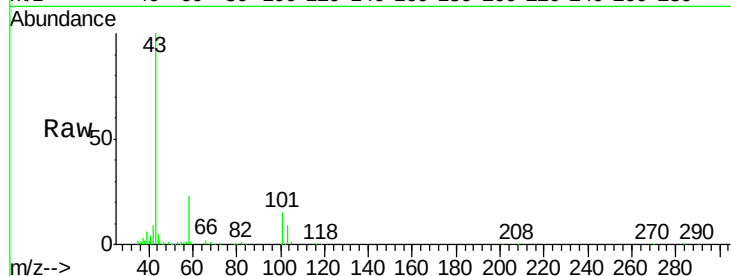


#11
 Trichlorofluoromethane
 Concen: 0.156 ppbv m
 RT: 3.95
 Instrument : MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId :
 Acq: 13 Apr 2021 17:30

Tot Ion:1
 Ion Rati
 101 100
 103 63.

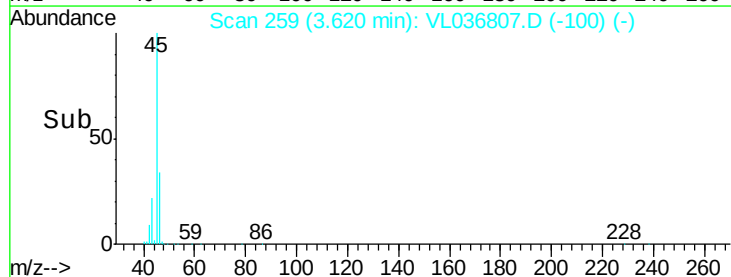
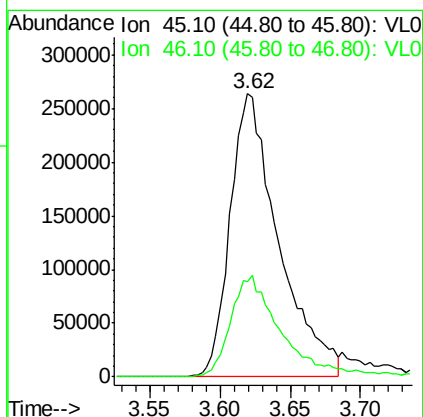
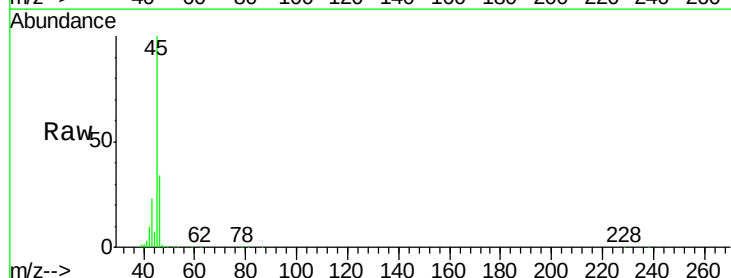
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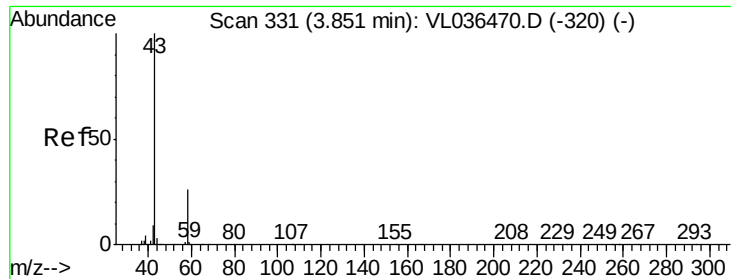
Reviewed By :Semsettin Yesilyurt 04/14/2021
 Supervised By :Mahesh Dadoda 04/14/2021



#13
 Ethanol
 Concen: 62.777 ppbv
 RT: 3.62 min Scan# 259
 Delta R.T. 0.01 min
 Lab File: VL036807.D
 Acq: 13 Apr 2021 17:36

Tgt Ion: 45 Resp: 631720
 Ion Ratio Lower Upper
 45 100
 46 38.3 16.6 66.2





#15

Acetone

Concen: 103.718 ppbv

RT: 3.84

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 13 Apr 2021 17:36

Tot Ion:

Ion Ratio

43 100

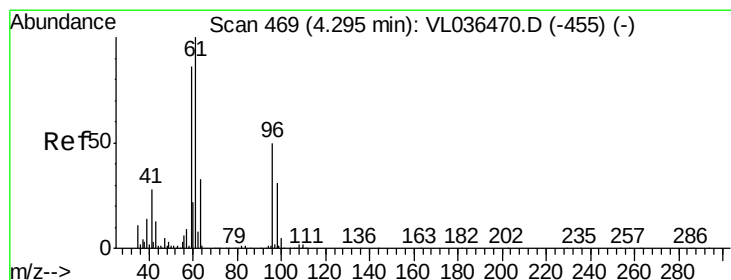
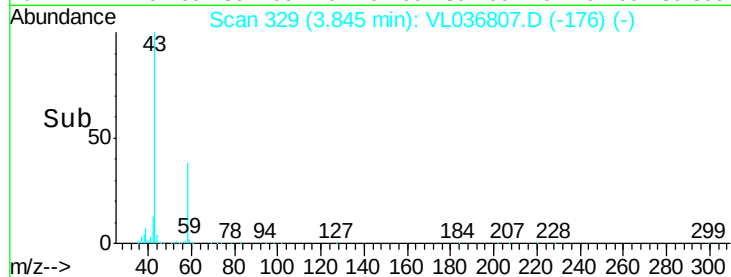
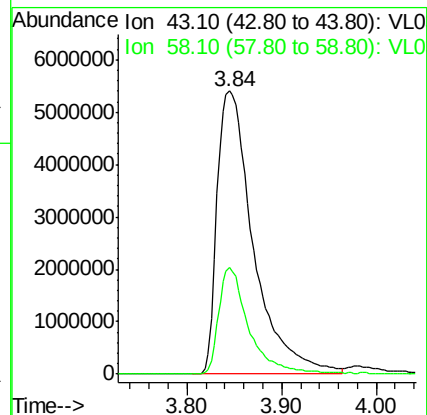
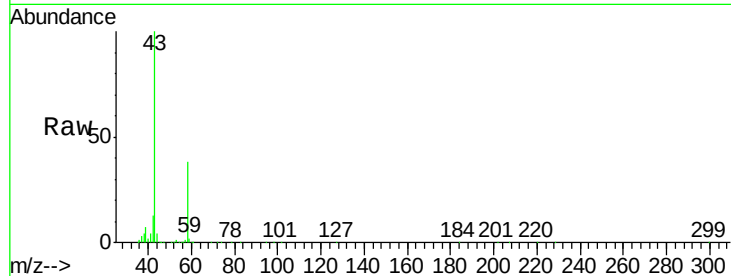
58 31.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/14/2021

Supervised By :Mahesh Dadoda 04/14/2021



#17

tert-Butyl alcohol

Concen: 1.460 ppbv

RT: 4.31 min Scan# 475

Delta R.T. 0.02 min

Lab File: VL036807.D

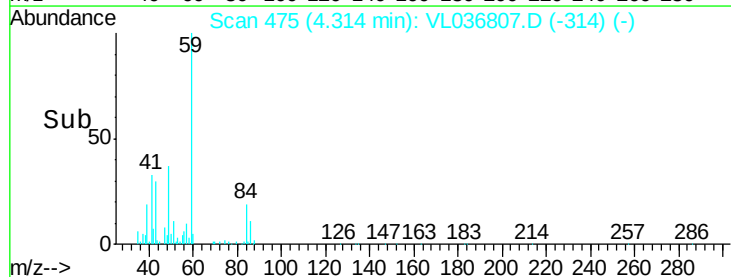
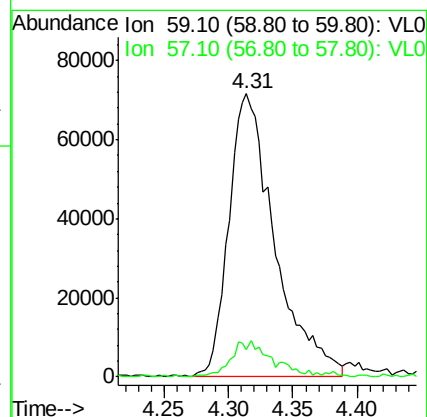
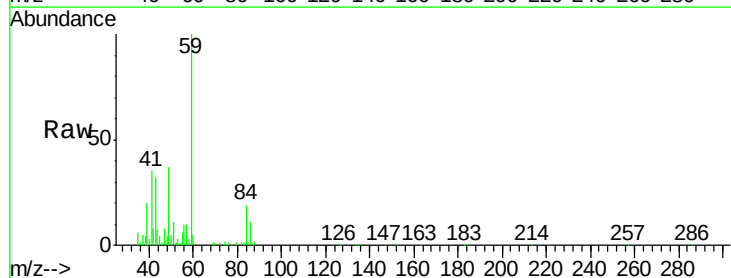
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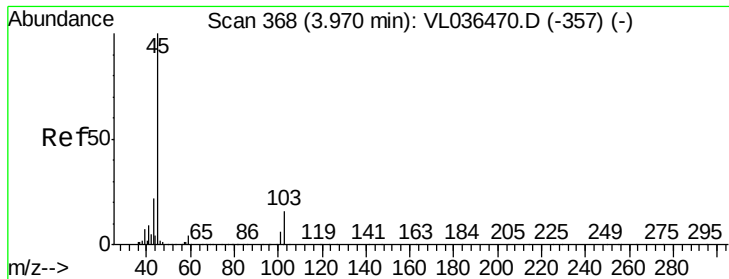
Tgt Ion: 59 Resp: 177458

Ion Ratio Lower Upper

59 100

57 12.2 8.6 12.8



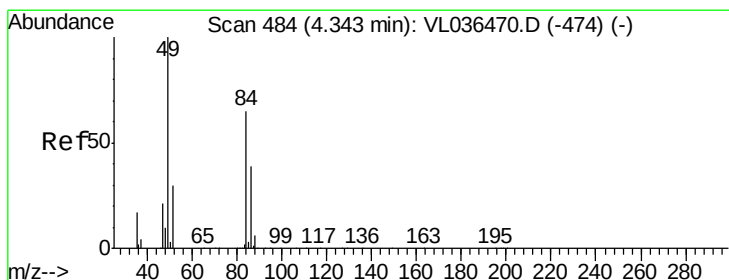
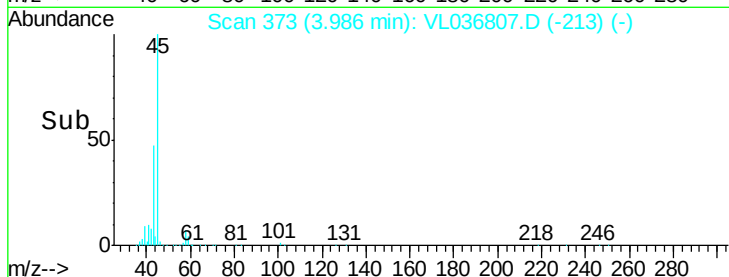
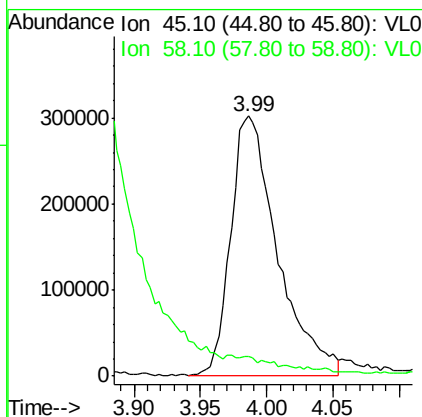
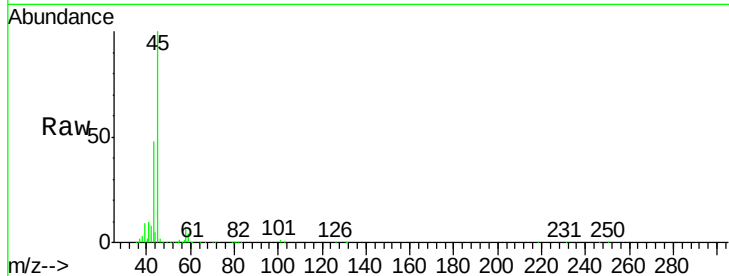


#19
Isopropyl Alcohol
Concen: 9.608 ppbv
RT: 3.99
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId : SG1
Acq: 13 Apr 2021 17:30

Tot Ion:
Ion Ratio
45 100
58 0.

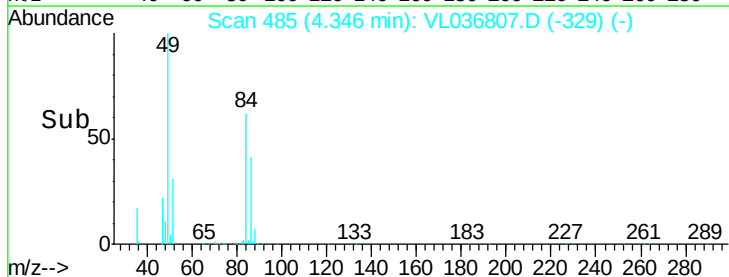
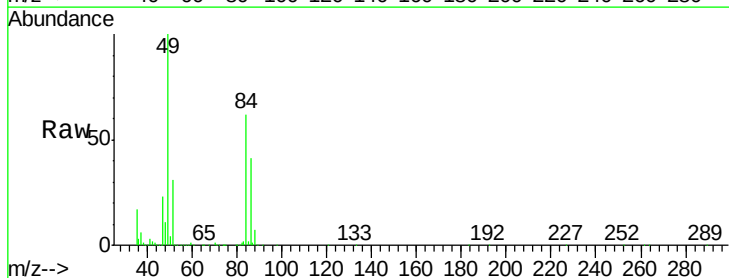
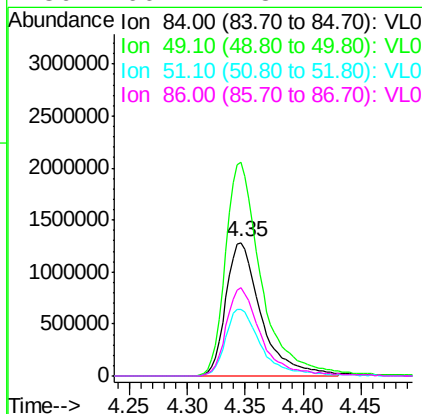
Manual Integrations
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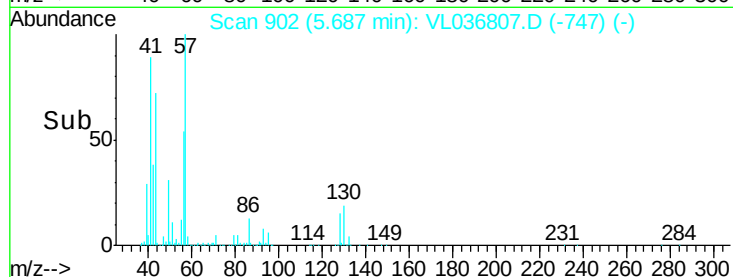
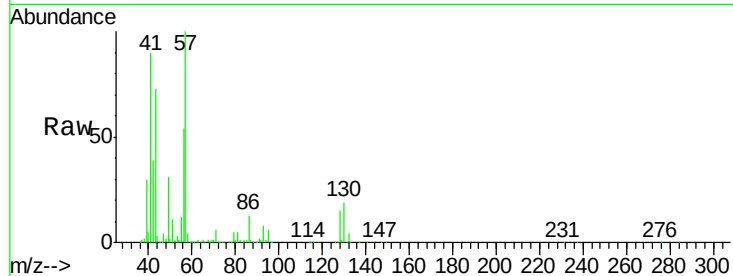
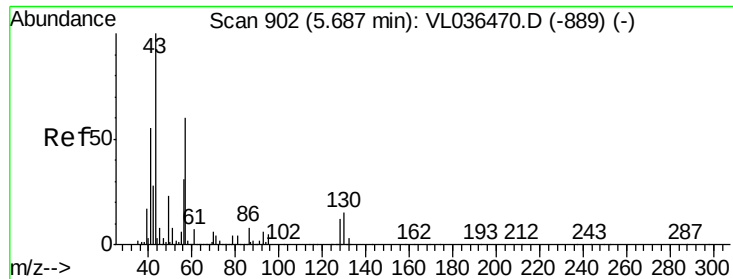
Reviewed By :Semsettin Yesilyurt 04/14/2021
Supervised By :Mahesh Dadoda 04/14/2021



#20
Methylene Chloride
Concen: 41.505 ppbv
RT: 4.35 min Scan# 485
Delta R.T.: 0.00 min
Lab File: VL036807.D
Acq: 13 Apr 2021 17:36

Tgt Ion: 84 Resp: 2713498
Ion Ratio Lower Upper
84 100
49 160.3 122.9 184.3
51 50.1 36.9 55.3
86 66.4 48.2 72.4



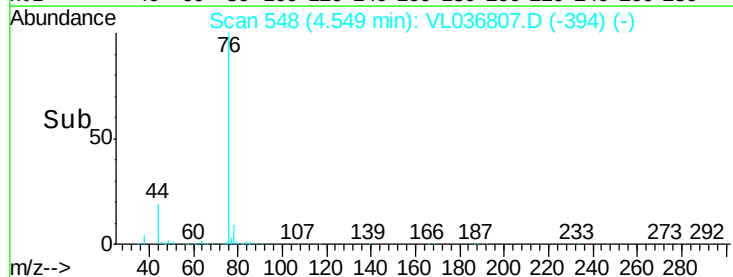
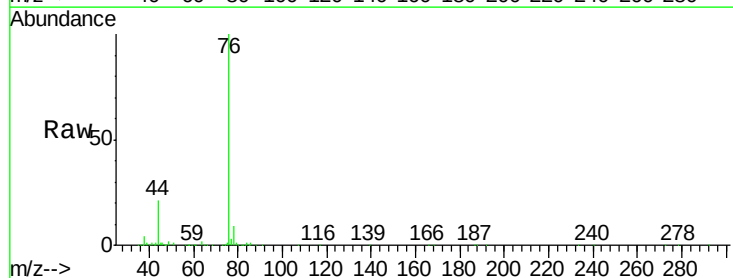
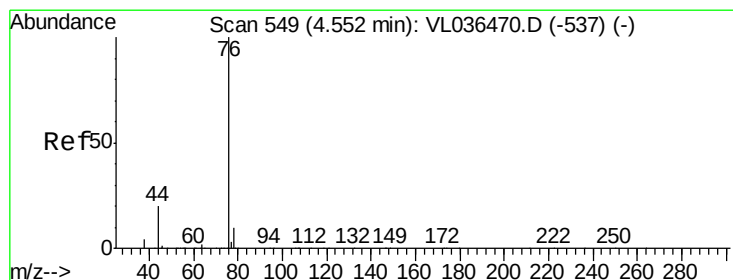
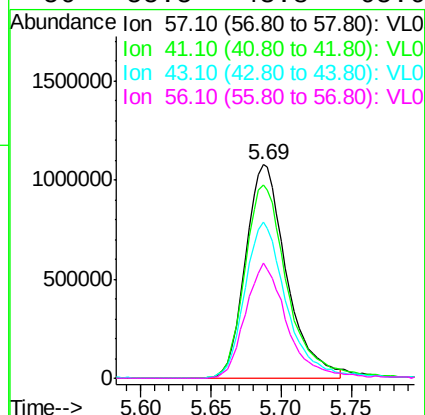


#26
Hexane
Concen: 14.210 ppbv
RT: 5.69
Instrument : MSVOA_1
Delta R.T. :
Lab File: ClientSampleId :
Acq: 13 Apr 2021 17:30

Tot Ion:
Ion Ratio
57 100
41 94.
43 74.
56 55.5 43.8 65.6

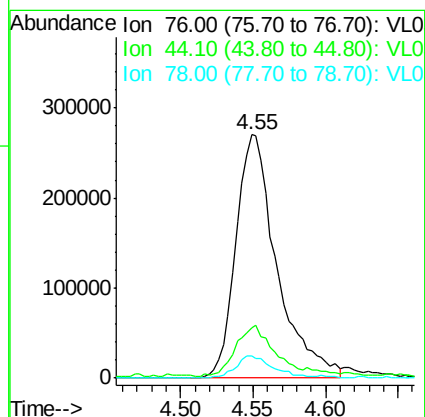
Manual Integrations
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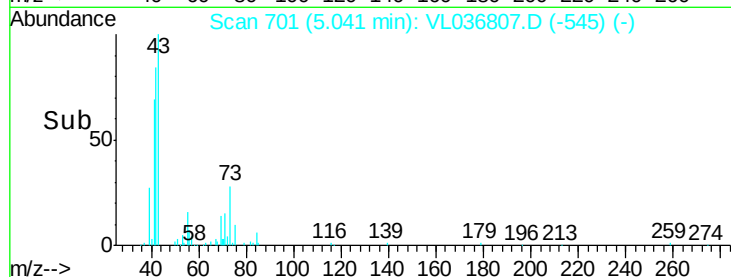
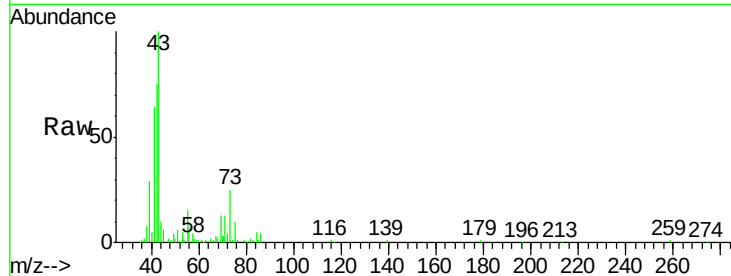
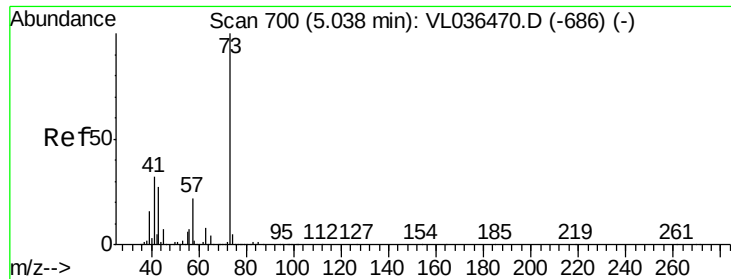
Reviewed By :Semsettin Yesilyurt 04/14/2021
Supervised By :Mahesh Dadoda 04/14/2021



#27
Carbon Disulfide
Concen: 3.496 ppbv
RT: 4.55 min Scan# 548
Delta R.T. -0.00 min
Lab File: VL036807.D
Acq: 13 Apr 2021 17:36

Tgt Ion: 76 Resp: 530602
Ion Ratio Lower Upper
76 100
44 22.6 17.5 26.3
78 8.9 8.6 13.0



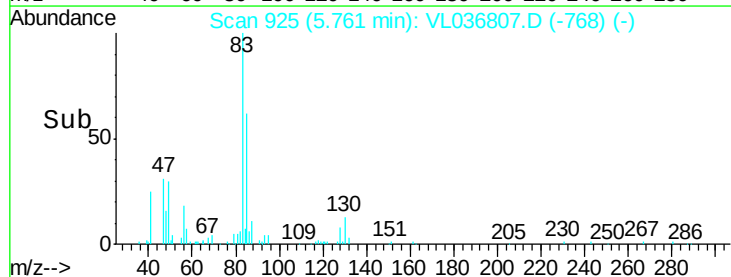
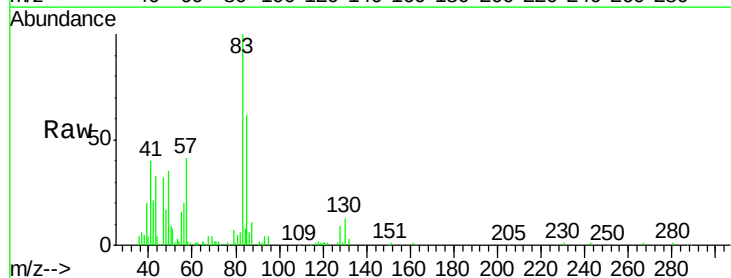
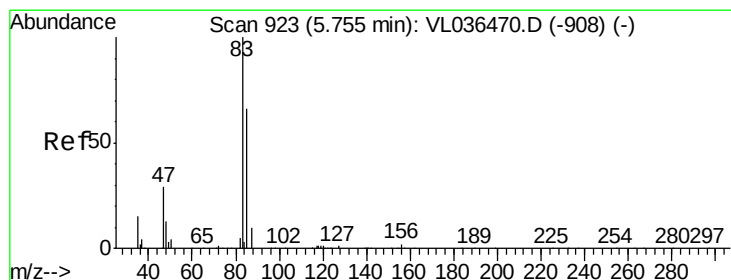
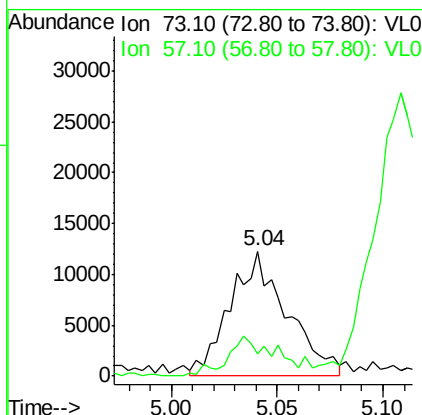


#28
Methyl tert-Butyl Ether
Concen: 0.127 ppbv m
RT: 5.04
Instrument: MSVOA_1
Delta R.T.
Lab File: ClientSampleId : SG1
Acq: 13 Apr 2021 17:30

Tot Ion:
Ion Ratio
73 100
57 0.

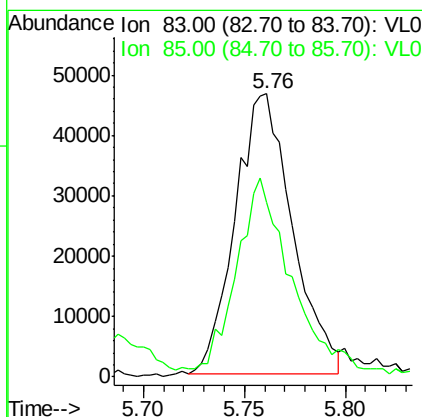
Manual Integrations
APPROVED

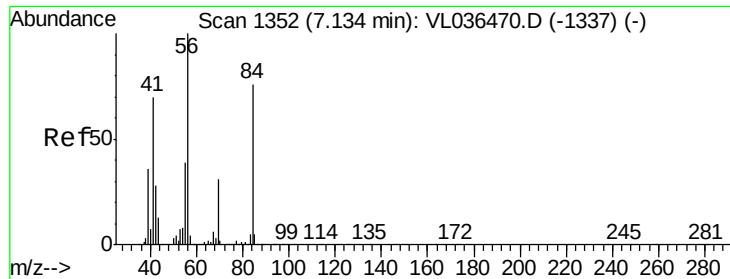
Reviewed By :Semsettin Yesilyurt 04/14/2021
Supervised By :Mahesh Dadoda 04/14/2021



#29
Chloroform
Concen: 0.372 ppbv
RT: 5.76 min Scan# 925
Delta R.T. 0.01 min
Lab File: VL036807.D
Acq: 13 Apr 2021 17:36

Tgt Ion: 83 Resp: 91729
Ion Ratio Lower Upper
83 100
85 59.6 52.6 78.8





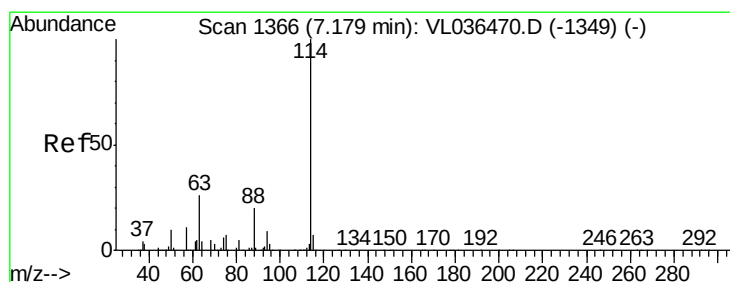
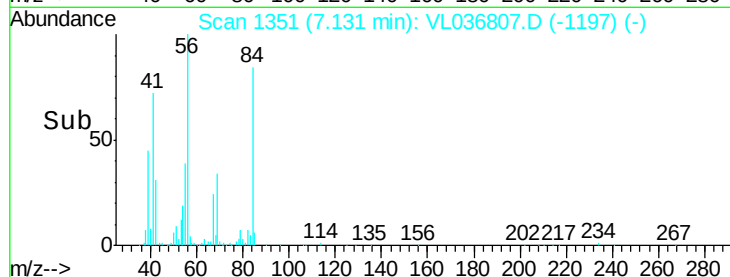
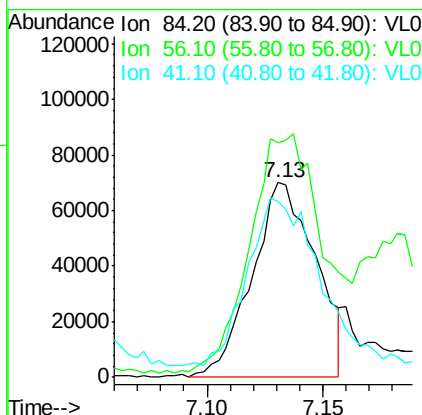
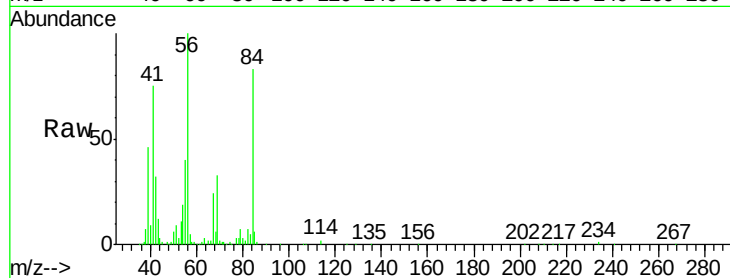
#30
Cvclohexane
Concen: 1.062 ppbv
RT: 7.13
Delta R.T.: 0.00 min
Lab File: VL036807.D
Acq: 13 Apr 2021 17:36

Tot Ion:
Ion Ratio

84	100
56	143
41	99

Manual Integrations
APPROVED

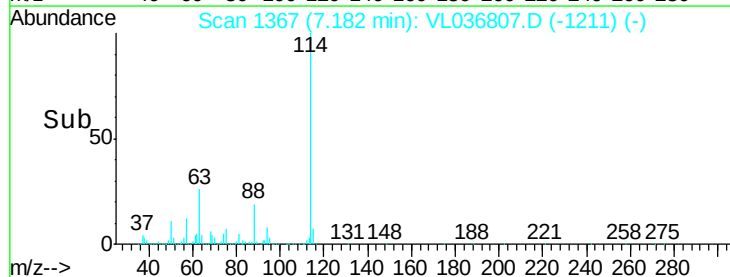
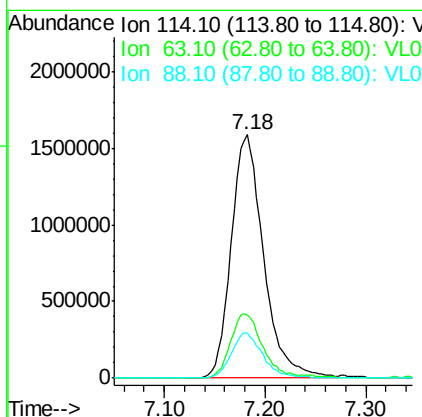
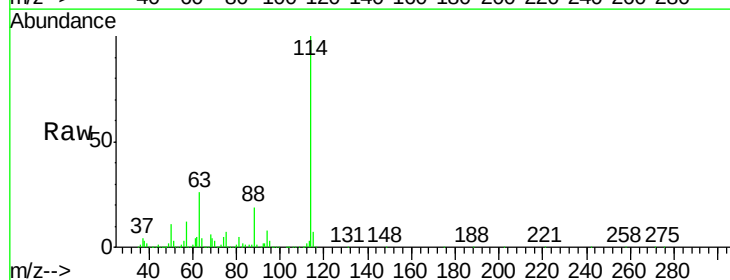
Reviewed By :Semsettin Yesilyurt 04/14/2021
Supervised By :Mahesh Dadoda 04/14/2021

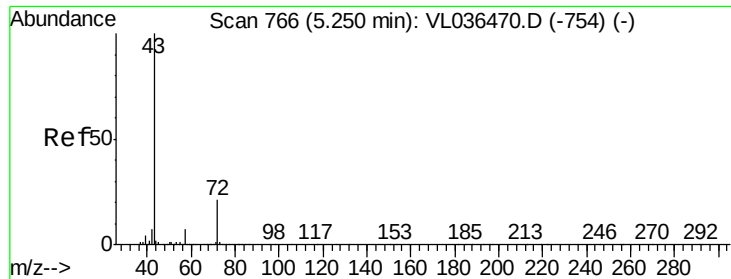


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.18 min Scan# 1367
Delta R.T.: 0.00 min
Lab File: VL036807.D
Acq: 13 Apr 2021 17:36

Tgt Ion:114 Resp: 3552681

Ion	Ratio	Lower	Upper
114	100		
63	27.3	22.4	33.6
88	18.4	15.4	23.0





#34

2-Butanone

Concen: 2.894 ppbv

RT: 5.25 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 13 Apr 2021 17:30 SG1

Tot Ion:

Ion Ratio

43 100

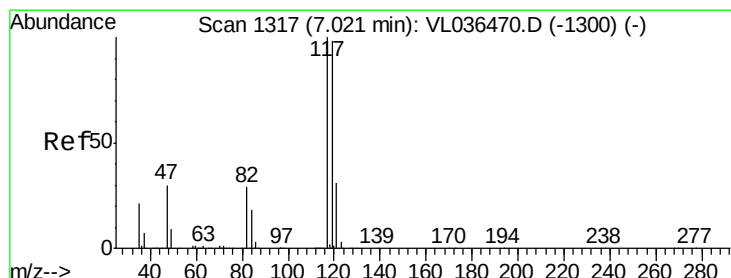
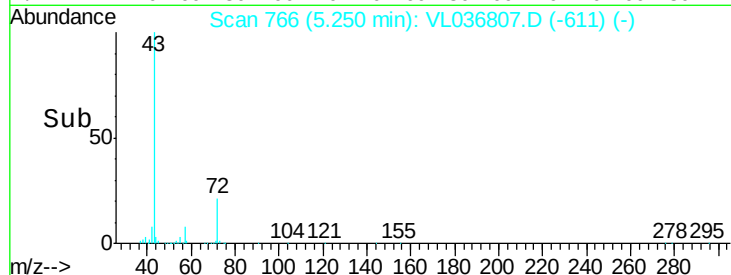
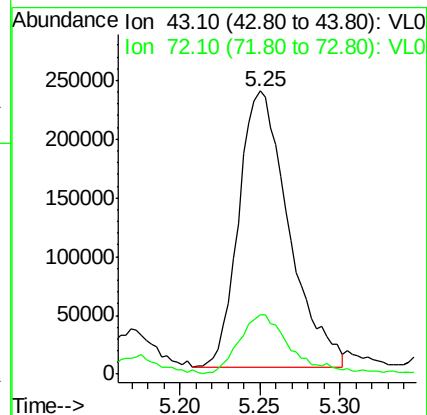
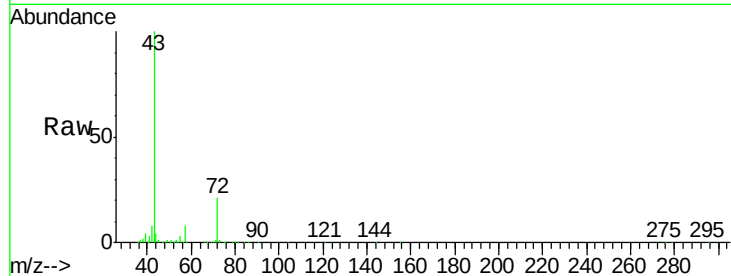
72 22.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/14/2021

Supervised By :Mahesh Dadoda 04/14/2021



#35

Carbon Tetrachloride

Concen: 0.034 ppbv m

RT: 7.02 min Scan# 1317

Delta R.T. -0.00 min

Lab File: VL036807.D

Acq: 13 Apr 2021 17:36

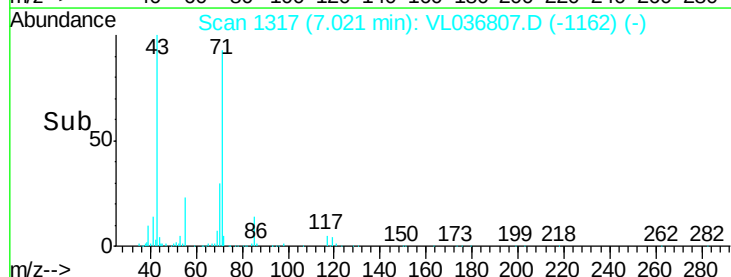
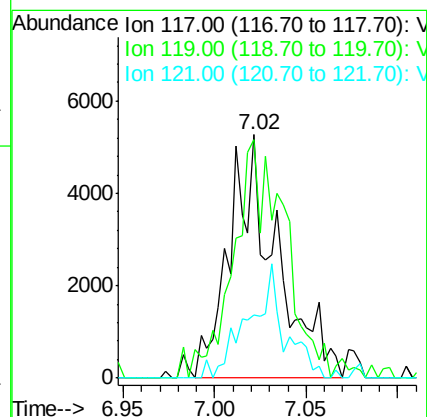
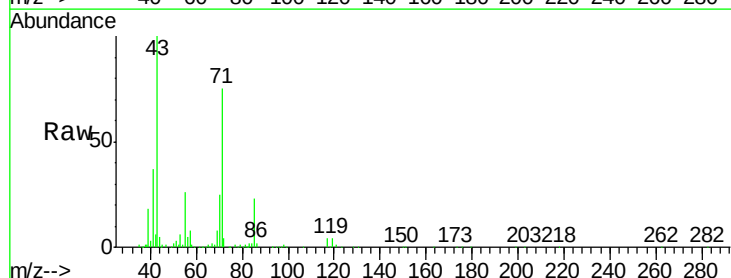
Tgt Ion:117 Resp: 9359

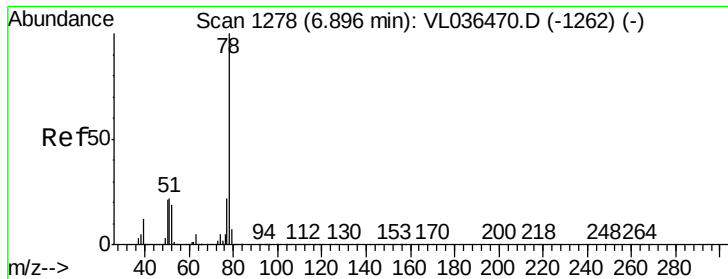
Ion Ratio Lower Upper

117 100

119 98.0 78.2 117.2

121 26.0 24.5 36.7





#36

Benzene

Concen: 0.813 ppbv

RT: 6.89 Instrument :

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 13 Apr 2021 17:36

Tot Ion:

Ion Ratio

78 100

77 18.

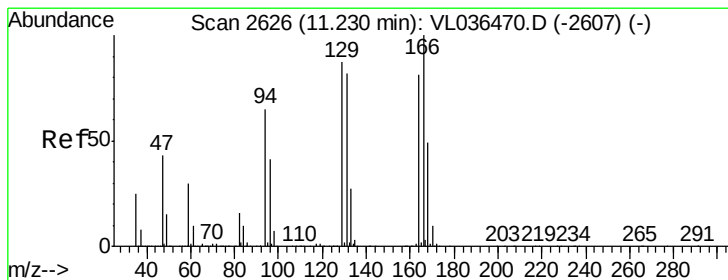
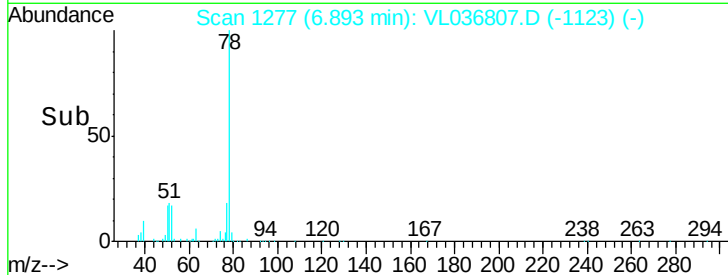
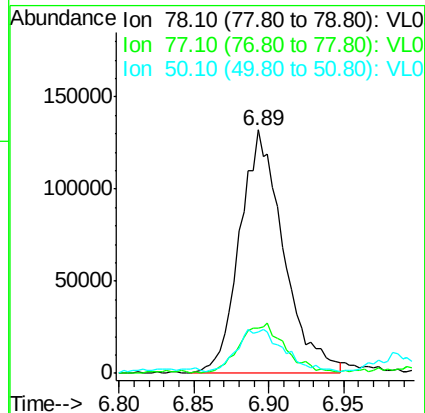
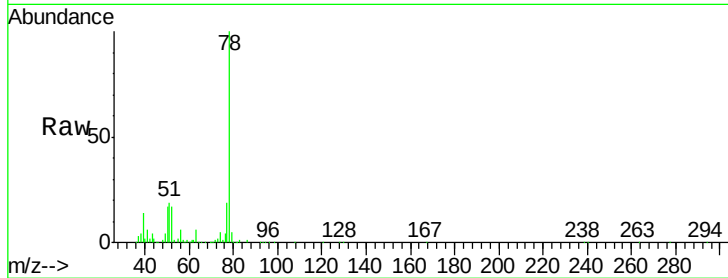
50 16.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/14/2021

Supervised By :Mahesh Dadoda 04/14/2021



#52

Tetrachloroethene

Concen: 0.051 ppbv m

RT: 11.21 min Scan# 2621

Delta R.T. -0.02 min

Lab File: VL036807.D

Acq: 13 Apr 2021 17:36

Tgt Ion:164 Resp: 6199

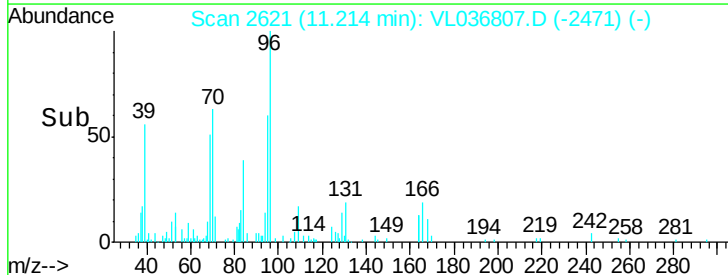
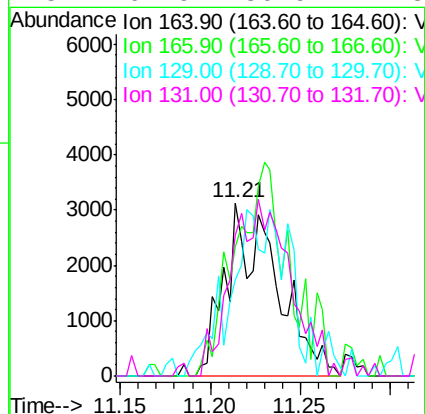
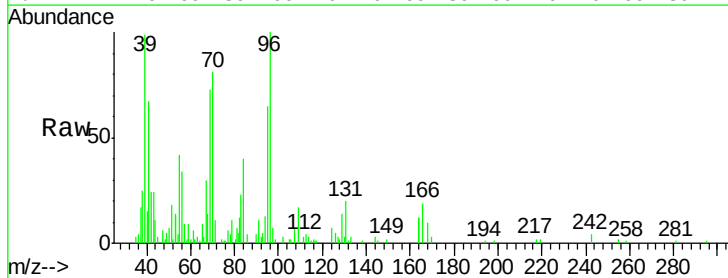
Ion Ratio Lower Upper

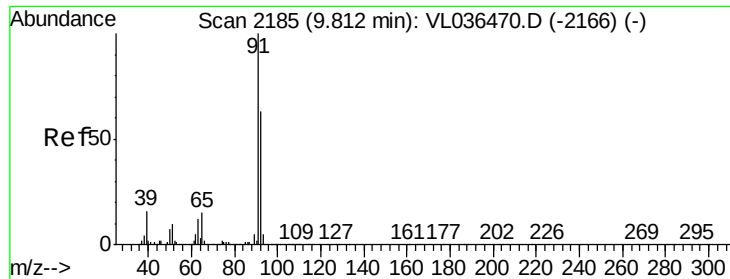
164 100

166 148.9 98.3 147.5#

129 110.9 85.8 128.8

131 161.9 80.9 121.3#



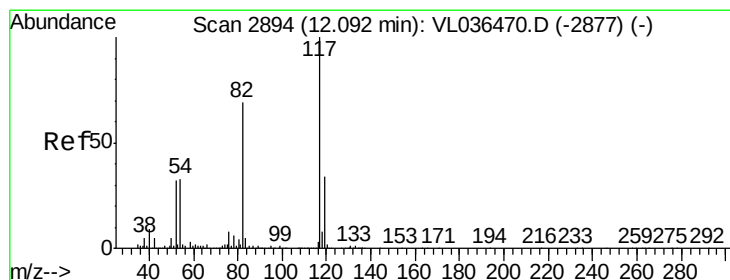
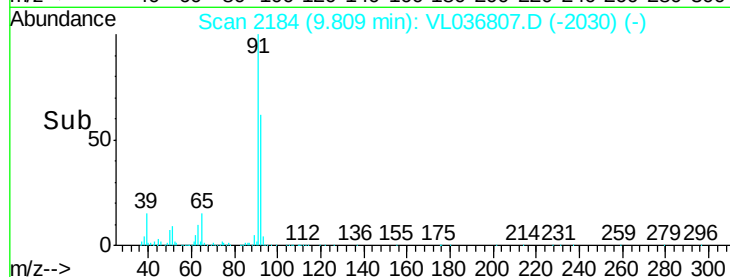
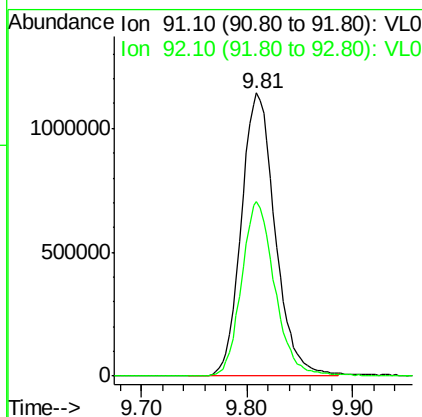
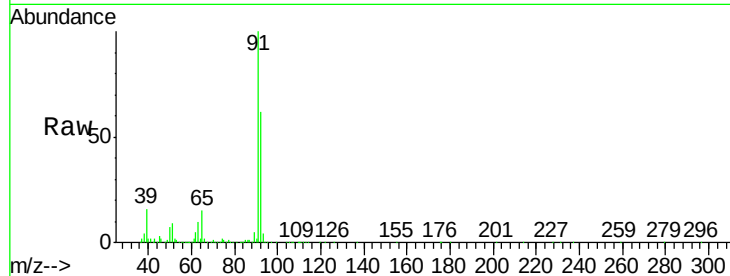


#53
Toluene
Concen: 7.314 ppbv
RT: 9.81
Instrument : MSVOA_1
Delta R.T.:
Lab File: ClientSampleId : SG1
Acq: 13 Apr 2021 17:30

Tot Ion:
Ion Ratio
91 100
92 60.

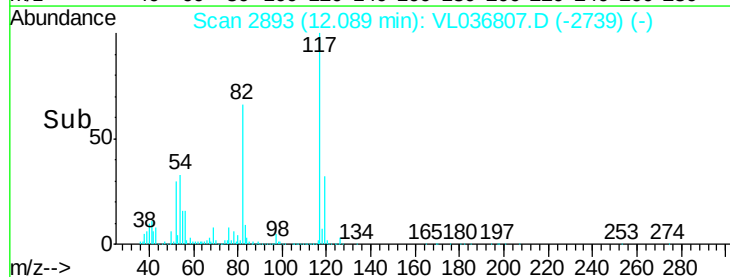
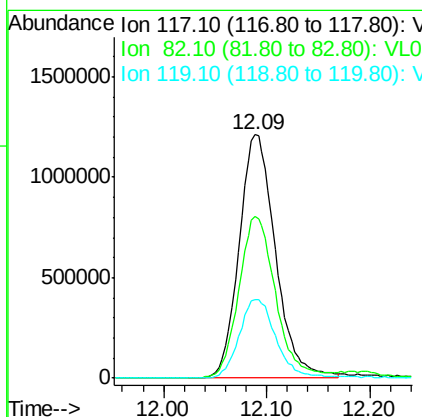
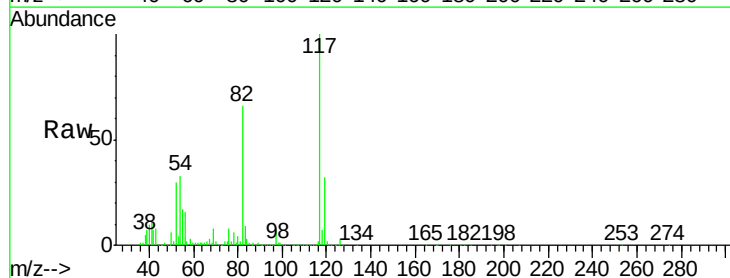
Manual Integrations
APPROVED

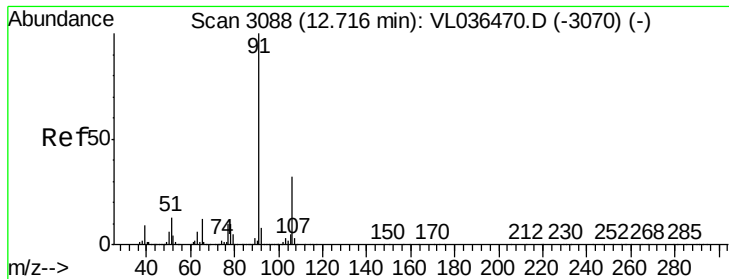
Reviewed By :Semsettin Yesilyurt 04/14/2021
Supervised By :Mahesh Dadoda 04/14/2021



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.09 min Scan# 2893
Delta R.T. -0.00 min
Lab File: VL036807.D
Acq: 13 Apr 2021 17:36

Tgt Ion:117 Resp: 2978419
Ion Ratio Lower Upper
117 100
82 67.3 57.4 86.0
119 33.4 47.4 71.0#





#58

Ethyl Benzene

Concen: 0.953 ppbv

RT: 12.71 min

Delta R.T. MSVOA_1

Lab File: ClientSampleId :

Acq: 13 Apr 2021 17:30

Tot Ion:

Ion Ratio

91 100

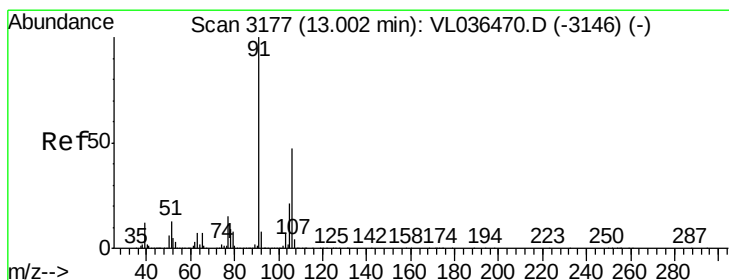
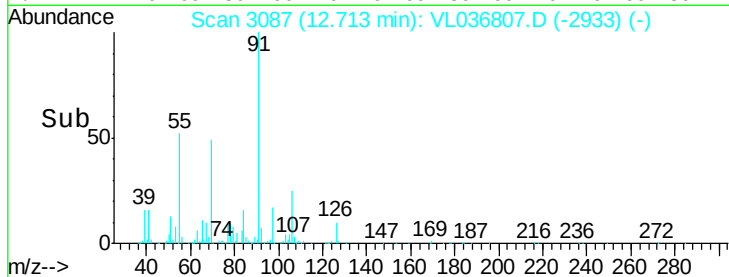
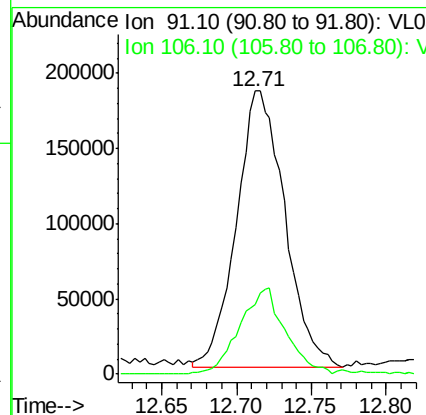
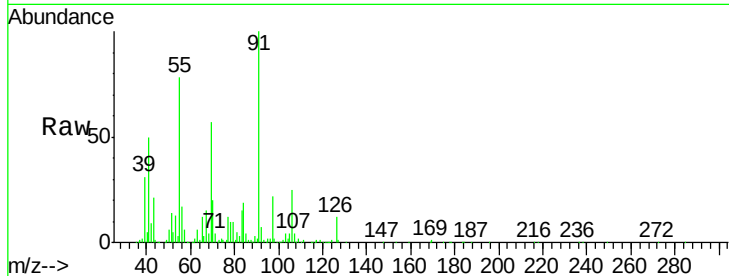
106 24.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/14/2021

Supervised By :Mahesh Dadoda 04/14/2021



#59

m/p-Xylene

Concen: 2.809 ppbv

RT: 12.97 min Scan# 3167

Delta R.T. -0.03 min

Lab File: VL036807.D

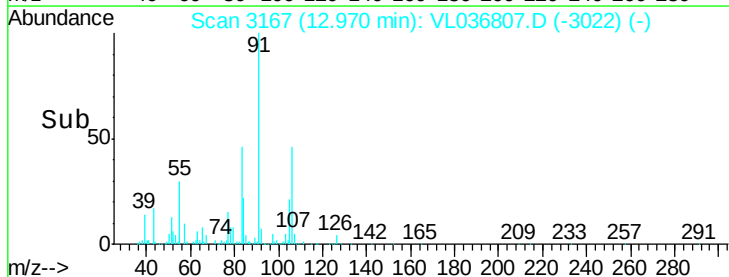
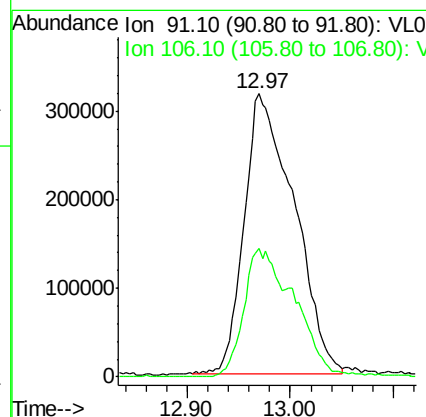
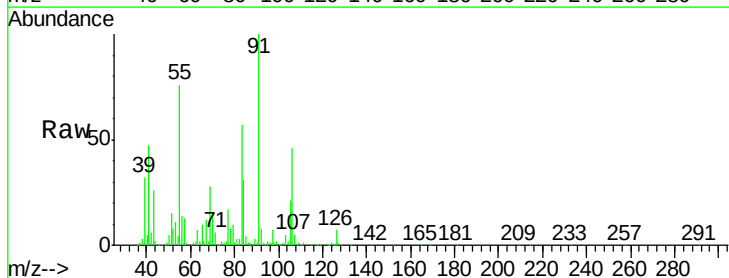
Acq: 13 Apr 2021 17:36

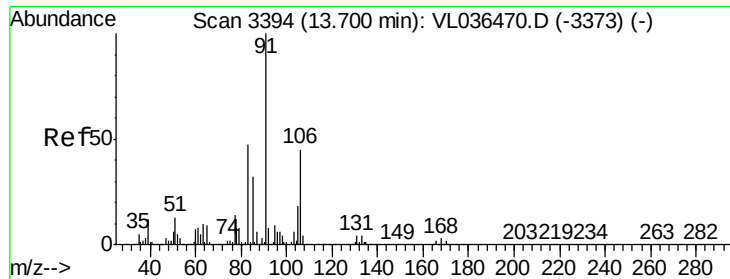
Tgt Ion: 91 Resp: 1061834

Ion Ratio Lower Upper

91 100

106 47.4 35.3 52.9





#60

o-Xylene

Concen: 0.860 ppbv

RT: 13.69

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 13 Apr 2021 17:30

Tot Ion:

Ion Ratio

91 100

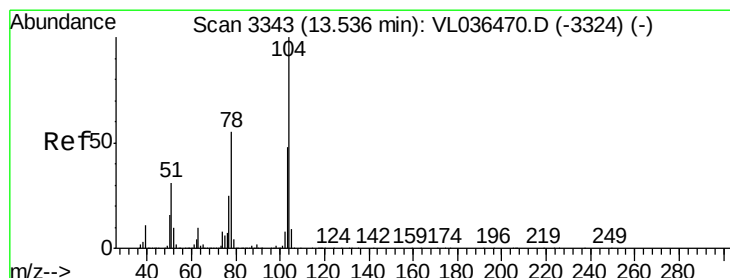
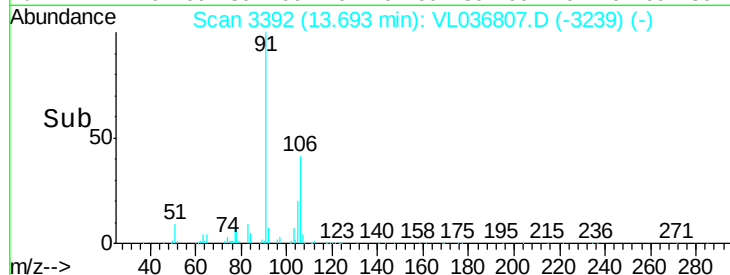
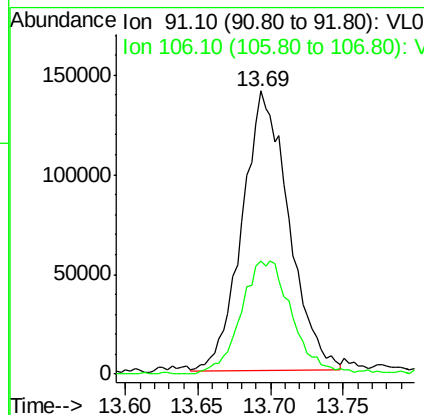
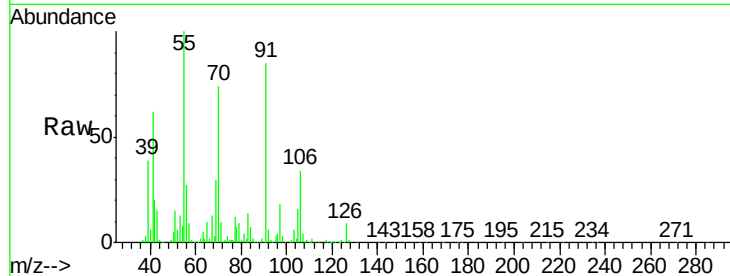
106 44.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/14/2021

Supervised By :Mahesh Dadoda 04/14/2021



#61

Styrene

Concen: 1.807 ppbv

RT: 13.53 min Scan# 3342

Delta R.T. -0.00 min

Lab File: VL036807.D

Acq: 13 Apr 2021 17:36

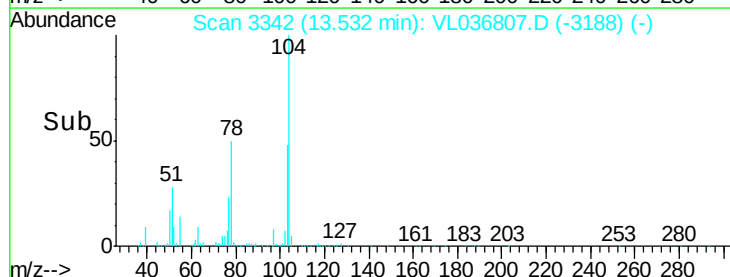
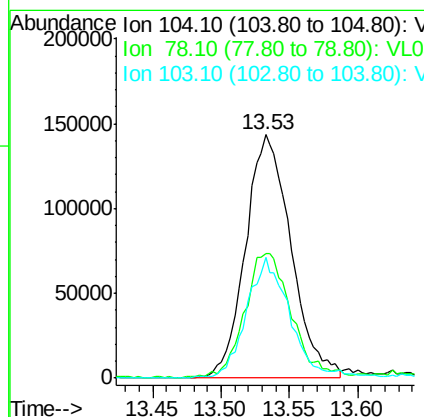
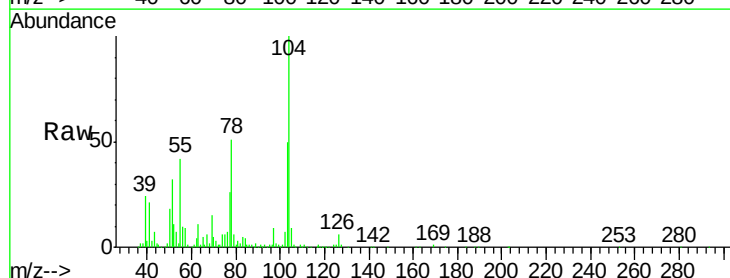
Tgt Ion:104 Resp: 332142

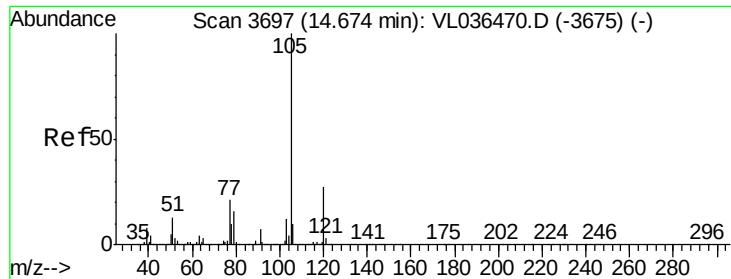
Ion Ratio Lower Upper

104 100

78 52.8 43.8 65.8

103 47.9 38.3 57.5





#62

Isopropylbenzene

Concen: 12.930 ppbv

RT: 14.68

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 13 Apr 2021 17:30

Tot Ion:1

Ion Ratio

105 100

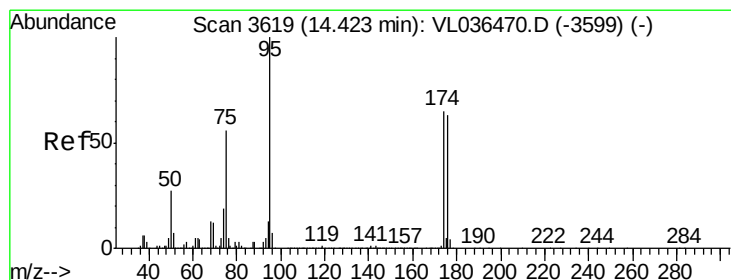
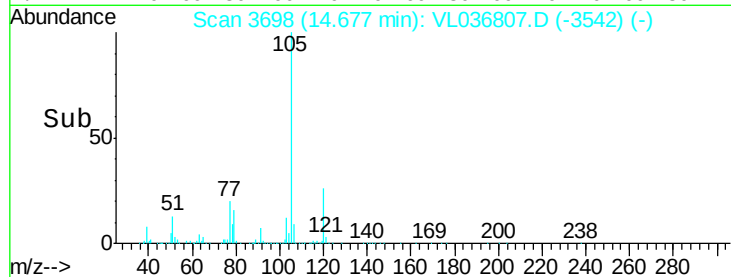
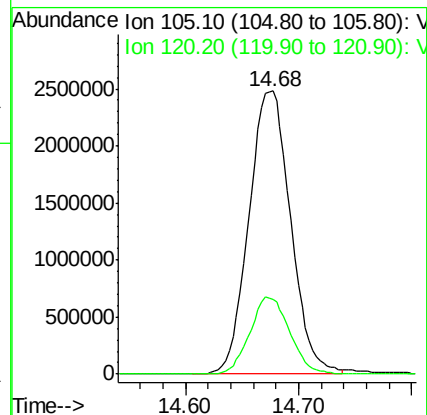
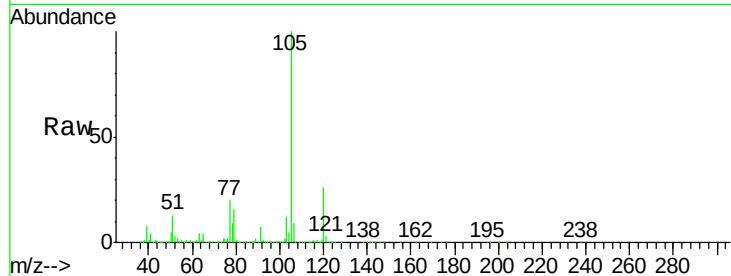
120 26.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/14/2021

Supervised By :Mahesh Dadoda 04/14/2021



#68

1-Bromo-4-Fluorobenzene

Concen: 8.828 ppbv

RT: 14.42 min Scan# 3619

Delta R.T. -0.00 min

Lab File: VL036807.D

Acq: 13 Apr 2021 17:36

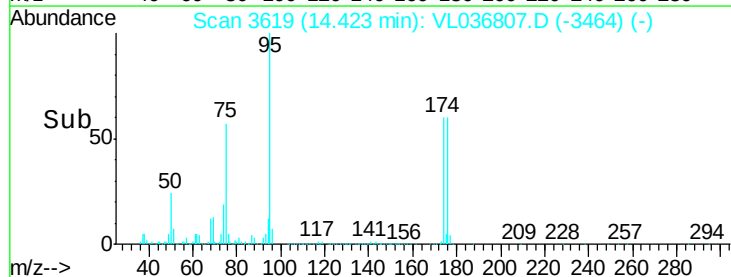
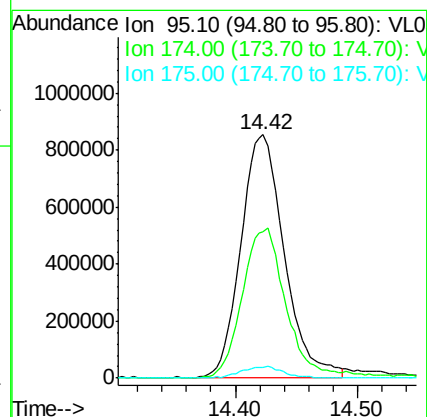
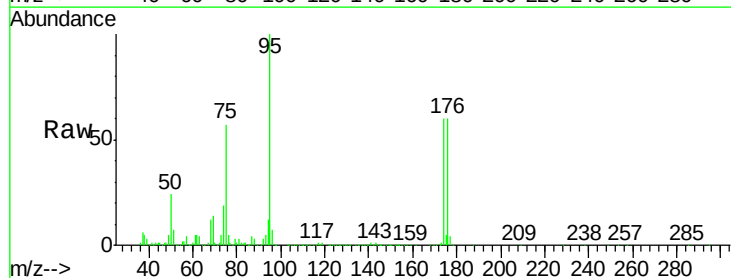
Tgt Ion: 95 Resp: 2095690

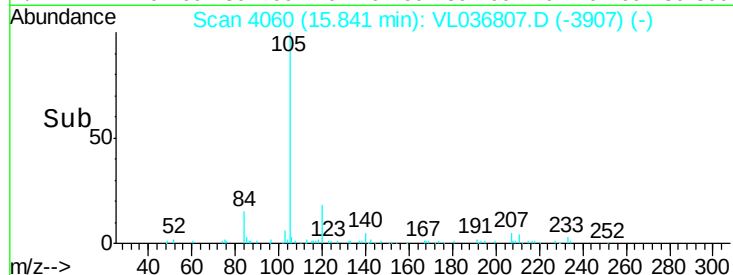
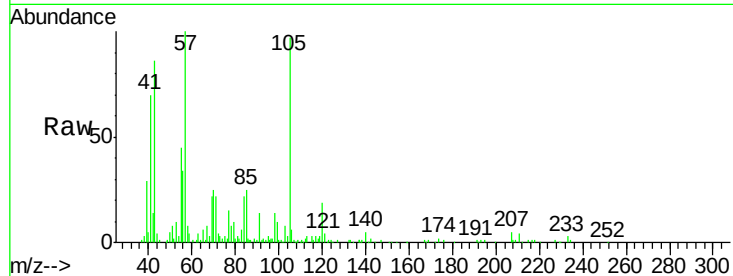
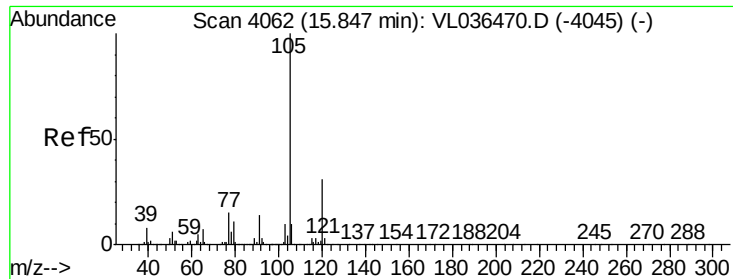
Ion Ratio Lower Upper

95 100

174 64.2 51.0 76.6

175 4.9 3.9 5.9



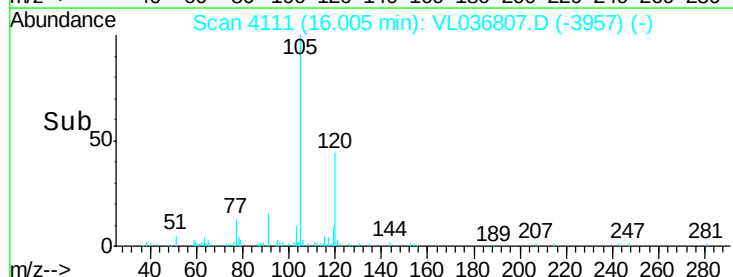
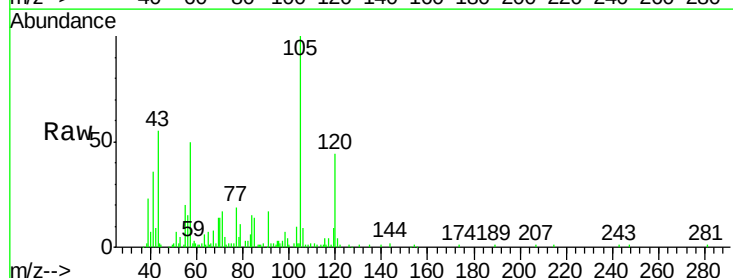
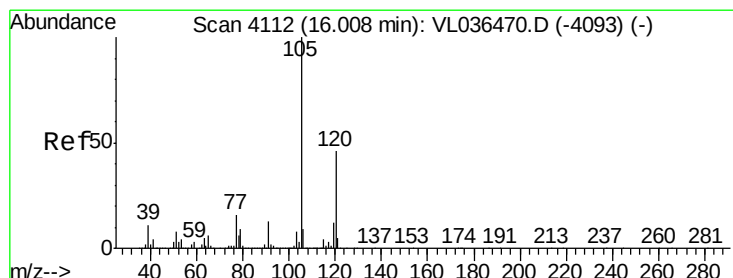
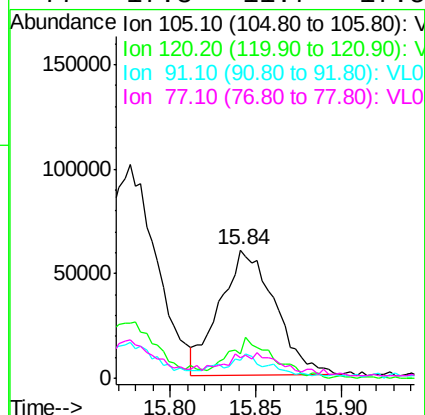


#72
4-Ethyltoluene
Concen: 0.335 ppbv
RT: 15.84
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId : SG1
Acq: 13 Apr 2021 17:30

Tot Ion:1
Ion Rati
105 100
120 26.
91 13.
77 17.3 11.7 17.5

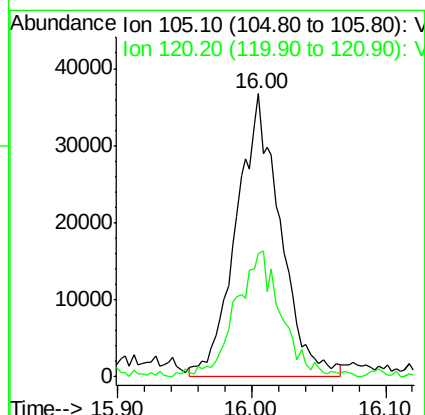
Manual Integrations
APPROVED

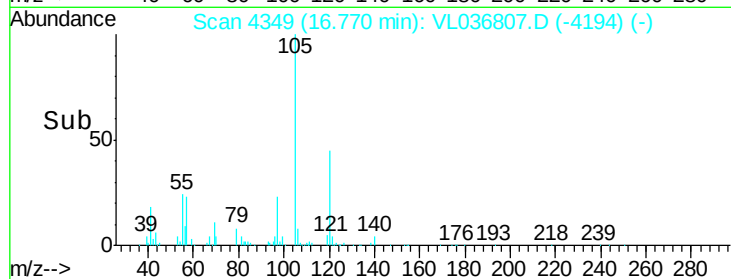
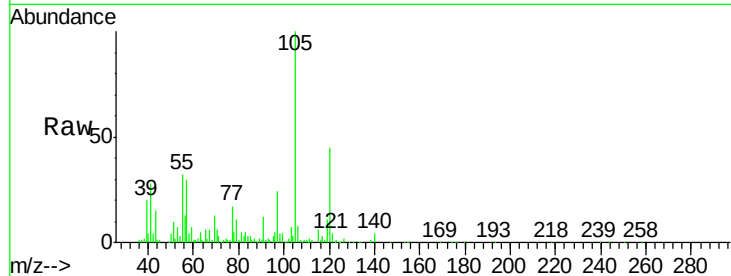
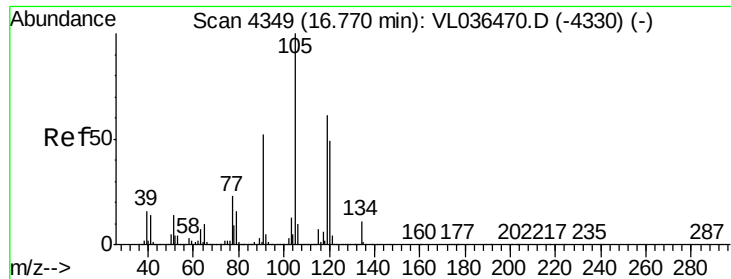
Reviewed By :Semsettin Yesilyurt 04/14/2021
Supervised By :Mahesh Dadoda 04/14/2021



#73
1,3,5-Trimethylbenzene
Concen: 0.224 ppbv m
RT: 16.00 min Scan# 4111
Delta R.T. -0.00 min
Lab File: VL036807.D
Acq: 13 Apr 2021 17:36

Tgt Ion:105 Resp: 83829
Ion Ratio Lower Upper
105 100
120 43.5 36.6 54.8





#74
 1,2,4-Trimethylbenzene
 Concen: 0.699 ppbv
 RT: 16.77
 Delta R.T
 Lab File:
 Acq: 13 Apr 2021 17:50

Instrument : MSVOA_1
 ClientSampleId : SG1

Tot Ion:1
 Ion Rati
 105 100
 120 44.
 91 7.
 77 12.6 18.6 28.0#

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/14/2021
 Supervised By :Mahesh Dadoda 04/14/2021

