

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL041321\
 Data File : VL036814.D
 Acq On : 13 Apr 2021 23:18
 Operator : SY/AP
 Sample : VIBLK
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA L
 ClientSampleId :
 VIBLK

Manual Integrations
 APPROVED

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

Quant Time: Apr 14 08:22:41 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	5.66	49	1233064	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	3202743	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.08	117	2513323	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.41	95	1661040	8.29	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	82.90%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	3.04	85	19287	0.096	ppbv	95
3) Chlorodifluoromethane	2.98	51	34238	0.149	ppbv	94
4) Chloromethane	3.13	50	12556m	0.154	ppbv	
5) Vinyl Chloride	3.25	62	11330m	0.135	ppbv	
6) Bromomethane	3.47	94	7060m	0.153	ppbv	
7) Chloroethane	3.56	64	4443m	0.155	ppbv	
8) Dichlorotetrafluoroethane	3.18	85	26759	0.139	ppbv	86
9) Propene	3.01	41	18216m	0.248	ppbv	
10) Heptane	8.11	43	20897m	0.112	ppbv	
11) Trichlorofluoromethane	3.95	101	29211m	0.143	ppbv	
12) 1,1,2-Trichlorotrifluoroet	4.48	101	20344m	0.155	ppbv	
13) Ethanol	3.62	45	4497m	0.514	ppbv	
14) Bromoethene	3.74	108	8385m	0.154	ppbv	
15) Acetone	3.86	43	99238m	0.818	ppbv	
16) 1,3-Butadiene	3.32	39	17811m	0.211	ppbv	
17) tert-Butyl alcohol	4.33	59	20768m	0.197	ppbv	
18) 1,1-Dichloroethene	4.28	96	9024m	0.155	ppbv	
19) Isopropyl Alcohol	3.99	45	13945m	0.209	ppbv	
20) Methylene Chloride	4.34	84	21846m	0.384	ppbv	
21) Allyl Chloride	4.41	41	12960m	0.134	ppbv	
22) trans-1,2-Dichloroethene	4.88	96	9021m	0.167	ppbv	
23) Vinyl Acetate	5.07	43	33369	0.161	ppbv #	91
24) 1,1-Dichloroethane	5.01	63	23611m	0.156	ppbv	
25) Ethyl Acetate	5.69	43	45703m	0.158	ppbv	
26) Hexane	5.69	57	23055m	0.172	ppbv	
27) Carbon Disulfide	4.55	76	14443m	0.109	ppbv	
28) Methyl tert-Butyl Ether	5.05	73	21037	0.133	ppbv #	77
29) Chloroform	5.74	83	32094m	0.150	ppbv	
30) Cyclohexane	7.13	84	20922m	0.193	ppbv	
31) cis-1,2-Dichloroethene	5.54	61	17268m	0.133	ppbv	
32) 1,1,1-Trichloroethane	6.51	97	28162m	0.130	ppbv	
34) 2-Butanone	5.26	43	32694m	0.209	ppbv	
35) Carbon Tetrachloride	7.02	117	27636m	0.112	ppbv	
36) Benzene	6.88	78	39434m	0.134	ppbv	
37) 1,2-Dichloroethane	6.30	62	20194m	0.116	ppbv	
38) Trichloroethene	7.83	130	15377m	0.134	ppbv	
39) 1,2-Dichloropropane	7.61	63	17028m	0.142	ppbv	
40) 1,4-Dioxane	7.91	88	5059m	0.181	ppbv	
41) Tetrahydrofuran	6.08	42	8160m	0.113	ppbv	
42) Bromodichloromethane	7.79	83	26587m	0.112	ppbv	
43) Methyl Methacrylate	8.02	69	9623m	0.097	ppbv	

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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.86	57	57497	0.111	ppbv	91
52) Tetrachloroethene	11.21	164	12996m	0.119	ppbv	
53) Toluene	9.80	91	30199	0.096	ppbv	94
54) 1,2-Dibromoethane	10.61	107	19926m	0.116	ppbv	
57) Chlorobenzene	12.14	112	33073m	0.155	ppbv	
58) Ethyl Benzene	12.71	91	39933m	0.109	ppbv	
59) m/p-Xylene	13.00	91	64602m	0.203	ppbv	
60) o-Xylene	13.69	91	37100m	0.120	ppbv	
62) Isopropylbenzene	14.66	105	54607m	0.131	ppbv	
63) 1,1,2,2-Tetrachloroethane	13.68	83	32260m	0.137	ppbv	
64) n-propylbenzene	15.56	120	12015m	0.118	ppbv	
65) tert-Butylbenzene	16.75	119	42288m	0.117	ppbv	
67) sec-Butylbenzene	17.30	105	57892m	0.114	ppbv	
69) p-Isopropyltoluene	17.65	119	47951m	0.121	ppbv	
70) n-Butylbenzene	18.56	91	44714m	0.109	ppbv	
71) 2-Chlorotoluene	15.46	91	37259m	0.120	ppbv	
74) 1,2,4-Trimethylbenzene	16.76	105	34030m	0.101	ppbv	
75) 1,3-Dichlorobenzene	17.00	146	27237m	0.143	ppbv	
76) 1,4-Dichlorobenzene	17.15	146	26536m	0.141	ppbv	
77) 1,2-Dichlorobenzene	17.82	146	26918m	0.151	ppbv	
78) Hexachloro-1,3-Butadiene	23.39	225	24004m	0.150	ppbv	

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 13 Apr 2021 23:18

Tot Ion:

Ion Ratio

49 100

128 49.

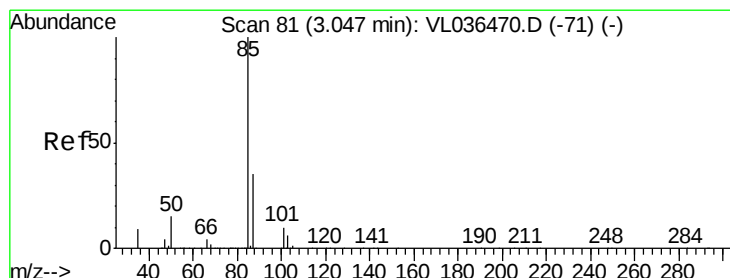
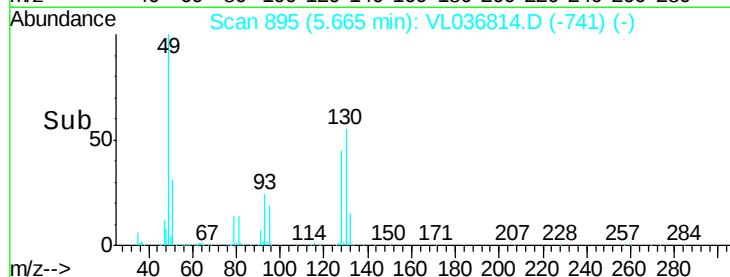
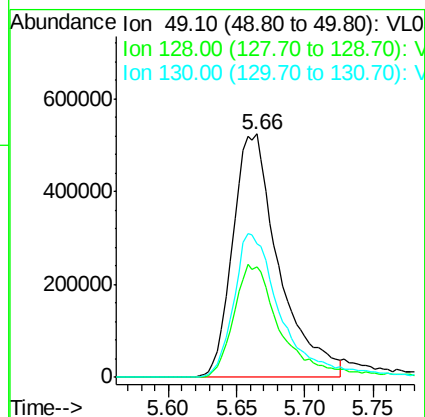
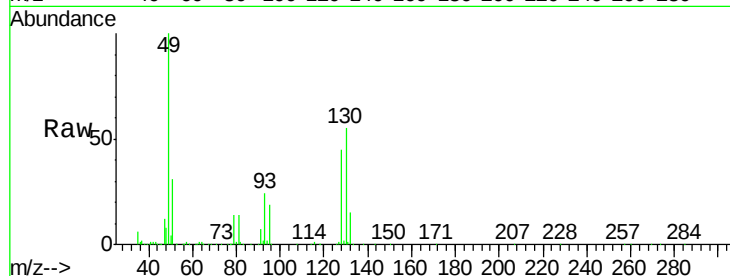
130 63.

Manual Integrations

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#2

Dichlorodifluoromethane

Concen: 0.096 ppbv

RT: 3.04 min Scan# 79

Delta R.T. -0.01 min

Lab File: VL036814.D

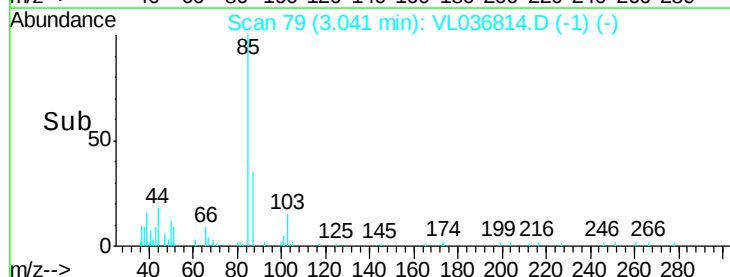
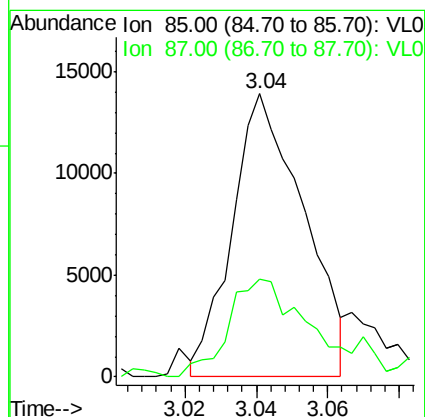
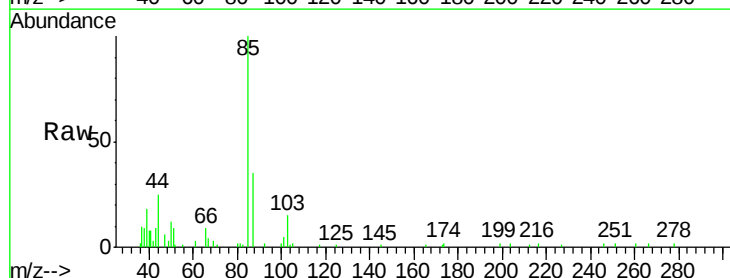
Acq: 13 Apr 2021 23:18

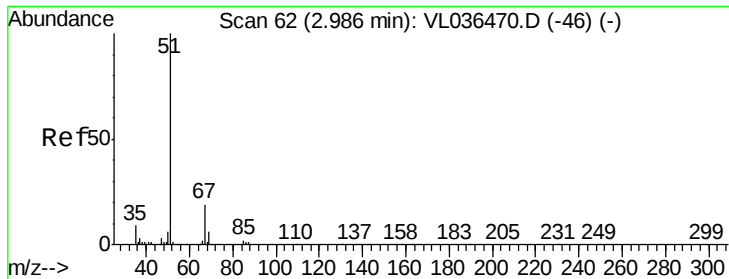
Tgt Ion: 85 Resp: 19287

Ion Ratio Lower Upper

85 100

87 31.7 27.8 41.8





#3

Chlorodifluoromethane

Concen: 0.149 ppbv

RT: 2.98 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 13 Apr 2021 23:18

Tot Ion:

Ion Ratio

51 100

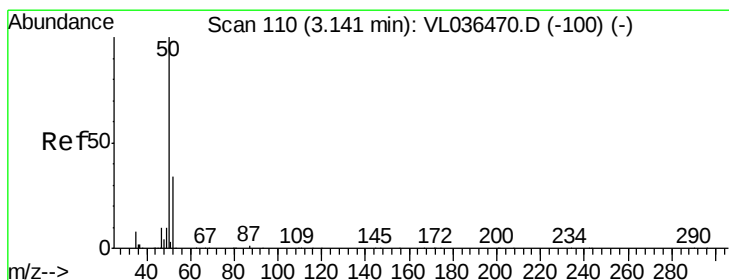
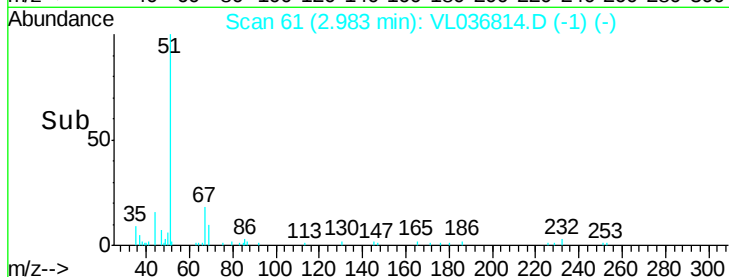
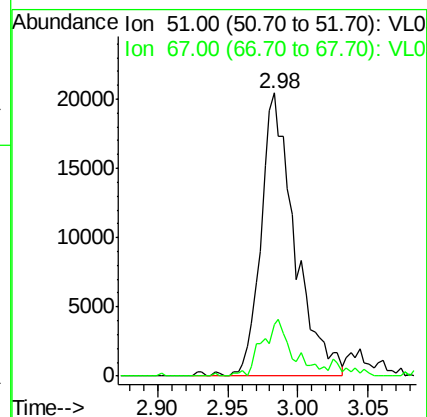
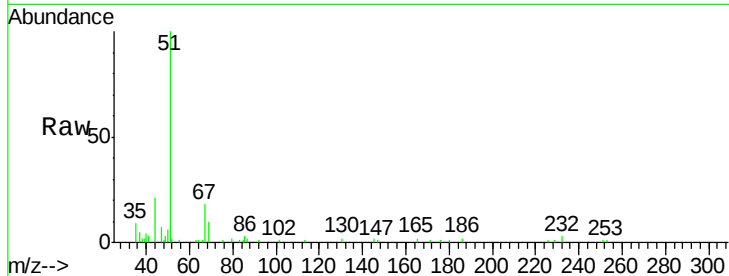
67 21.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/14/2021

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#4

Chloromethane

Concen: 0.154 ppbv m

RT: 3.13 min Scan# 107

Delta R.T. -0.01 min

Lab File: VL036814.D

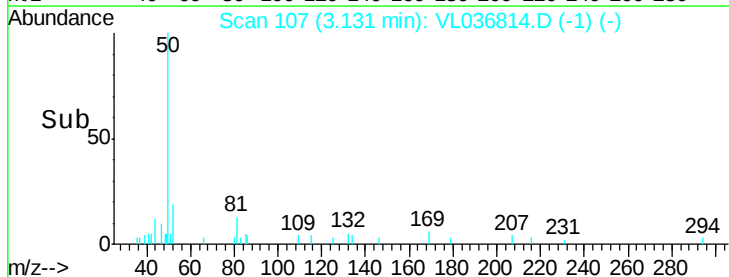
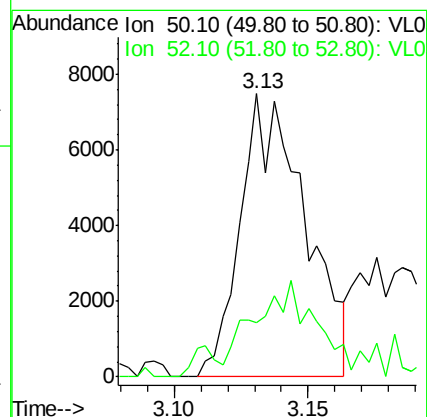
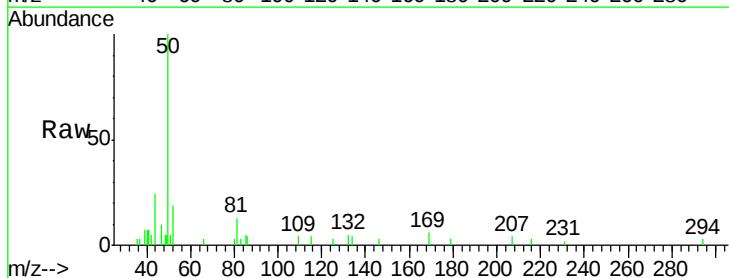
Acq: 13 Apr 2021 23:18

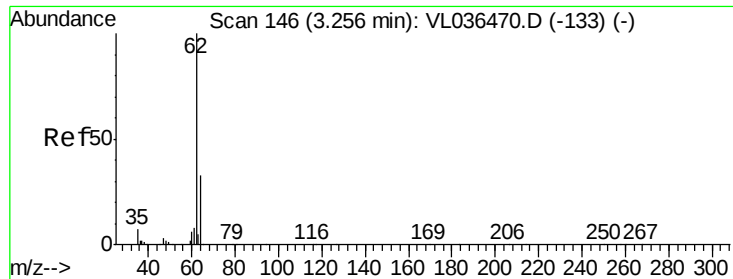
Tgt Ion: 50 Resp: 12556

Ion Ratio Lower Upper

50 100

52 19.1 27.0 40.6#





#5

Vinyl Chloride

Concen: 0.135 ppbv m

RT: 3.25 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 13 Apr 2021 23:18

Tot Ion:

Ion Ratio

62 100

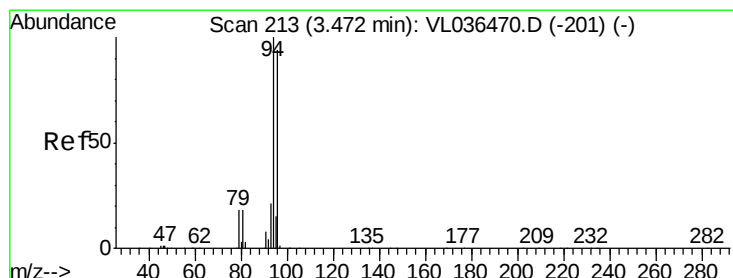
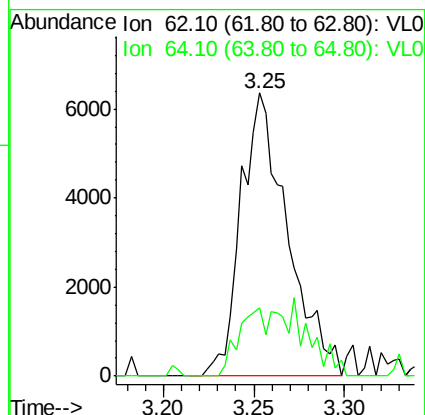
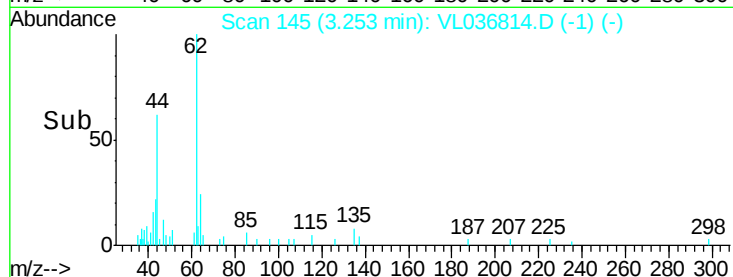
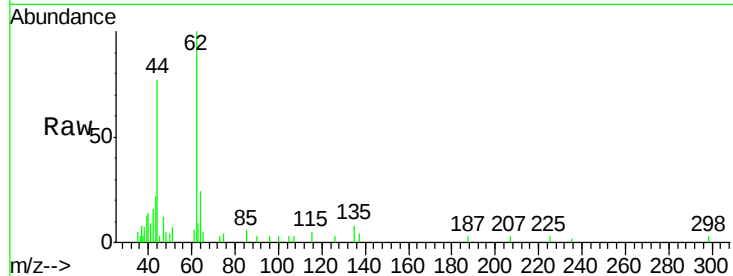
64 24.

Manual Integrations

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#6

Bromomethane

Concen: 0.153 ppbv m

RT: 3.47 min Scan# 212

Delta R.T. -0.00 min

Lab File: VL036814.D

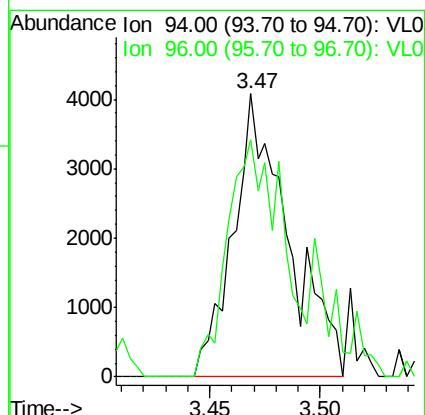
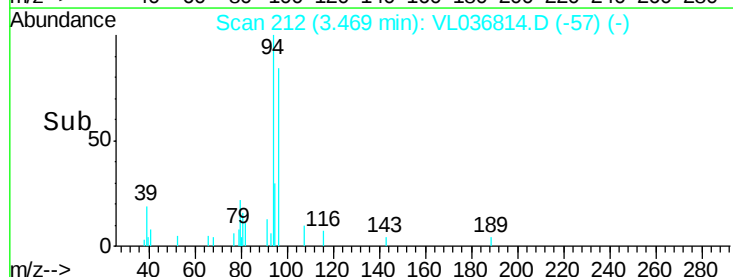
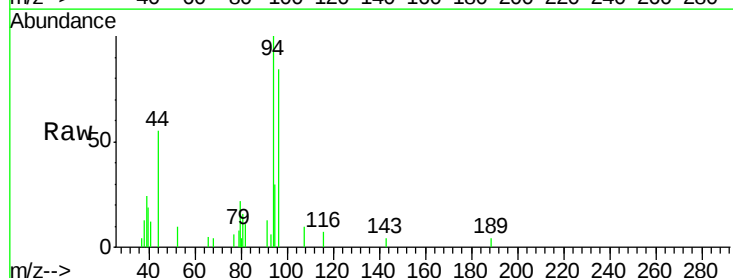
Acq: 13 Apr 2021 23:18

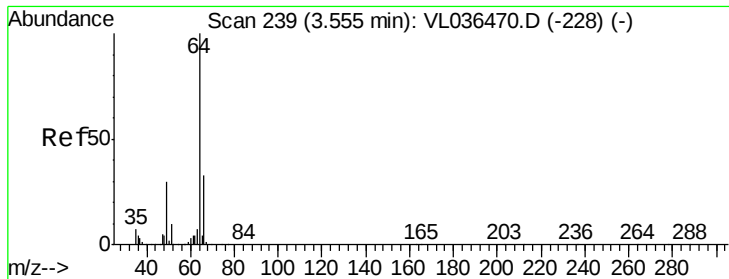
Tgt Ion: 94 Resp: 7060

Ion Ratio Lower Upper

94 100

96 83.7 74.9 112.3





#7

Chloroethane

Concen: 0.155 ppbv m

RT: 3.56 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 13 Apr 2021 23:18

Tot Ion:

Ion Ratio

64 100

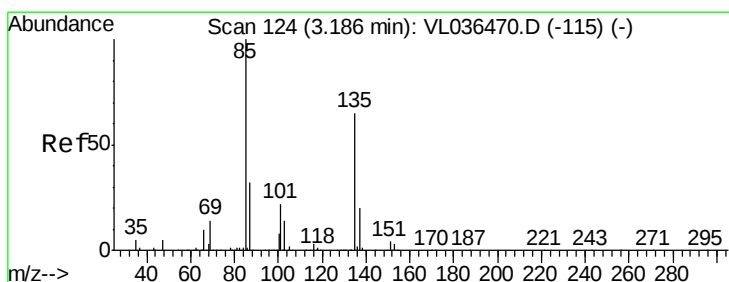
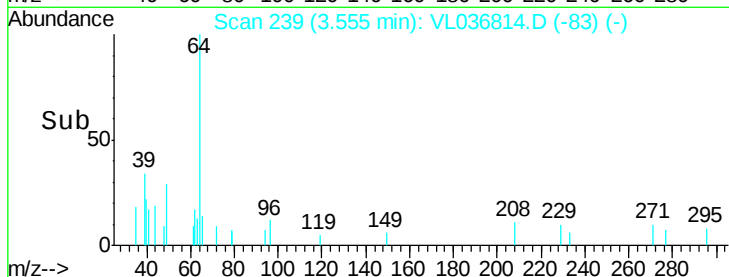
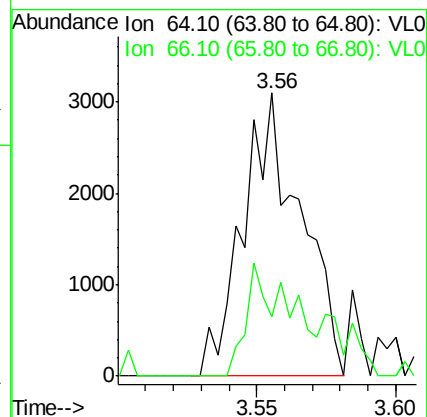
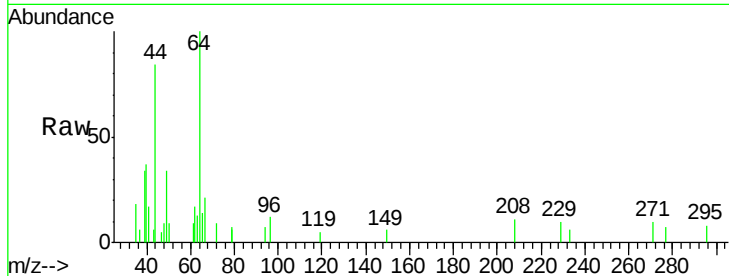
66 21.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/14/2021

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#8

Dichlorotetrafluoroethane

Concen: 0.139 ppbv

RT: 3.18 min Scan# 123

Delta R.T. -0.00 min

Lab File: VL036814.D

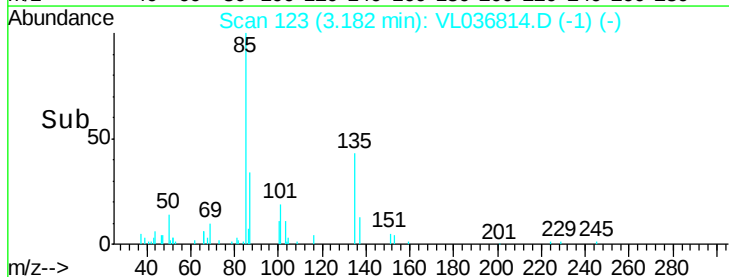
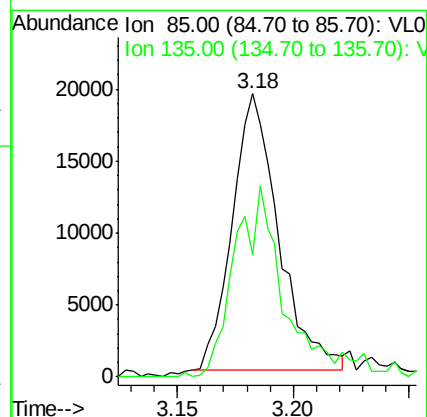
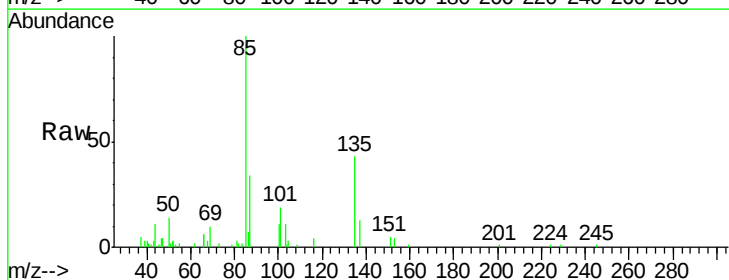
Acq: 13 Apr 2021 23:18

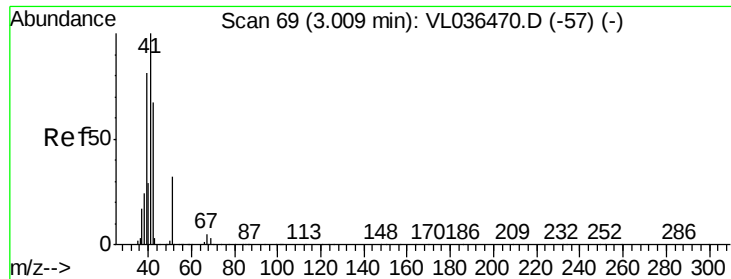
Tgt Ion: 85 Resp: 26759

Ion Ratio Lower Upper

85 100

135 79.2 54.3 81.5





#9

Propene

Concen: 0.248 ppbv m

RT: 3.01 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 13 Apr 2021 23:18

Tot Ion:

Ion Ratio

41 100

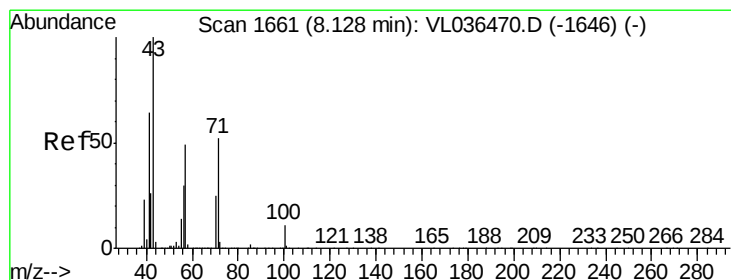
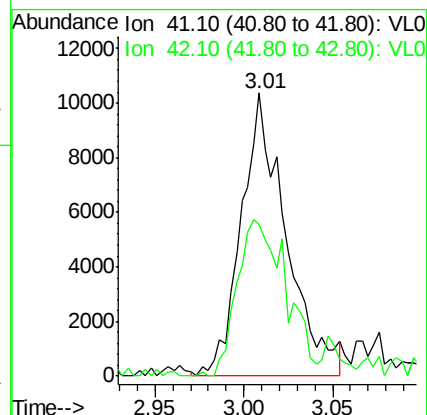
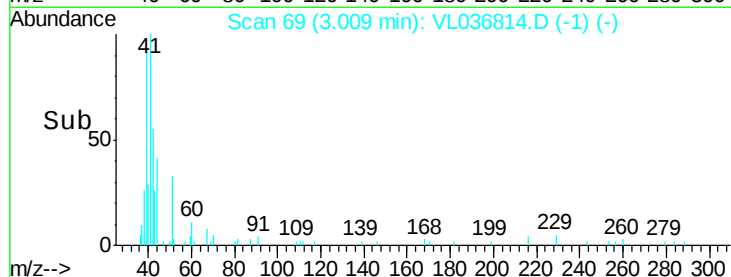
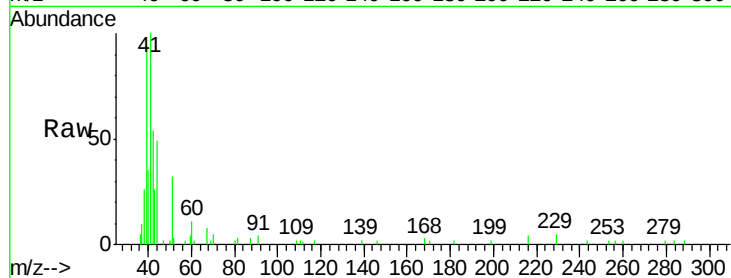
42 68.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/14/2021

Supervised By :Mahesh Dadoda 04/14/2021



#10

Heptane

Concen: 0.112 ppbv m

RT: 8.11 min Scan# 1657

Delta R.T. -0.01 min

Lab File: VL036814.D

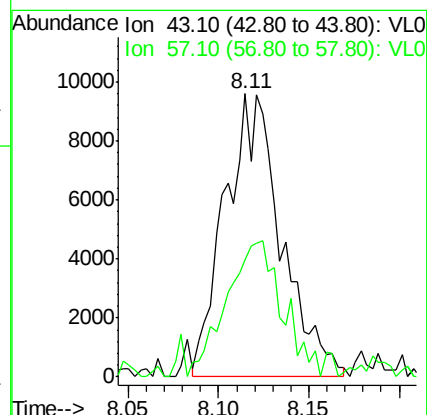
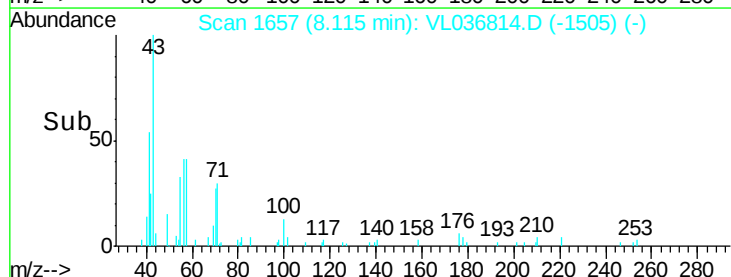
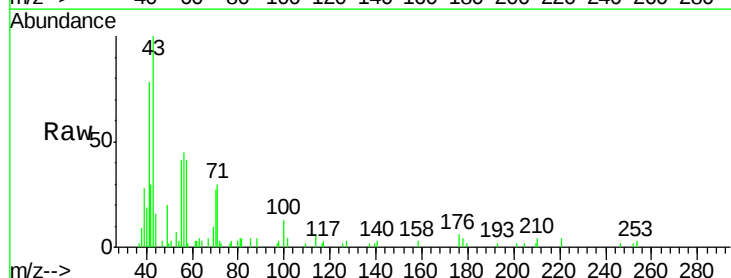
Acq: 13 Apr 2021 23:18

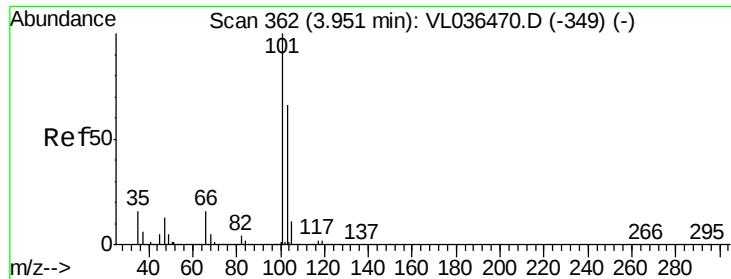
Tgt Ion: 43 Resp: 20897

Ion Ratio Lower Upper

43 100

57 0.0 39.0 58.6#



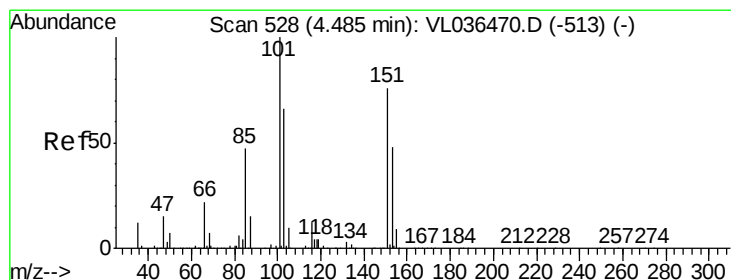
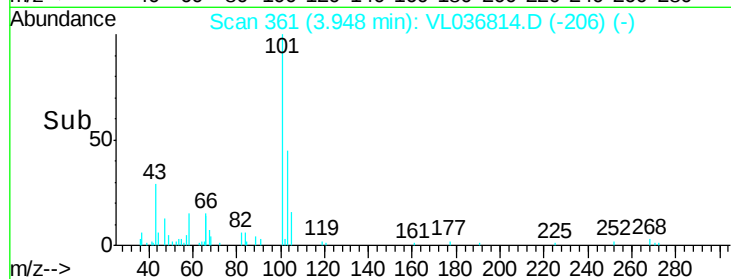
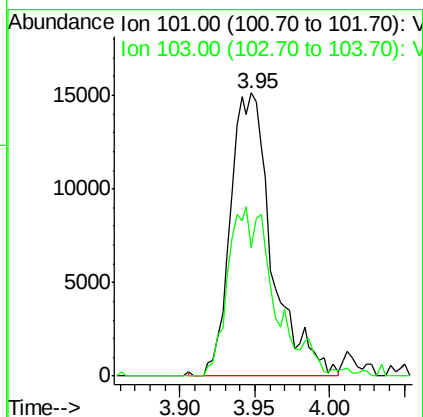
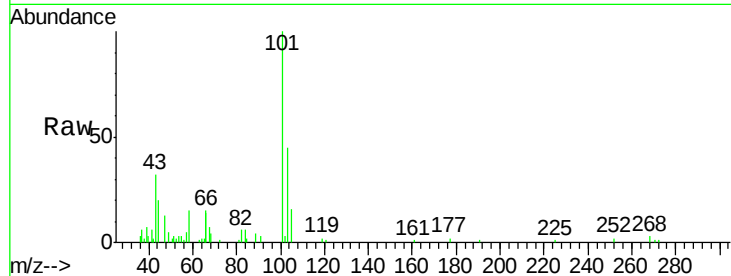


#11
 Trichlorofluoromethane
 Concen: 0.143 ppbv m
 RT: 3.95 Instrument : MSVOA_1
 Delta R.T. ClientSampleId :
 Lab File: VIBLK
 Acq: 13 Apr 2021 23:18

Tot Ion:1
 Ion Rati
 101 100
 103 45.

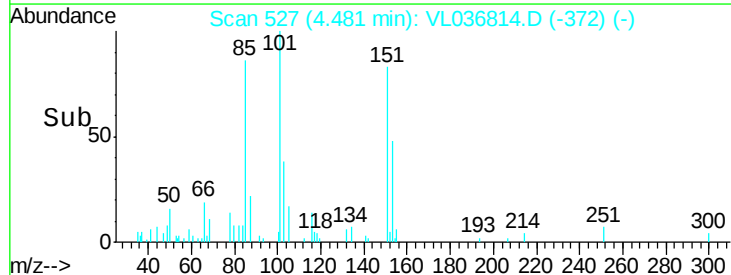
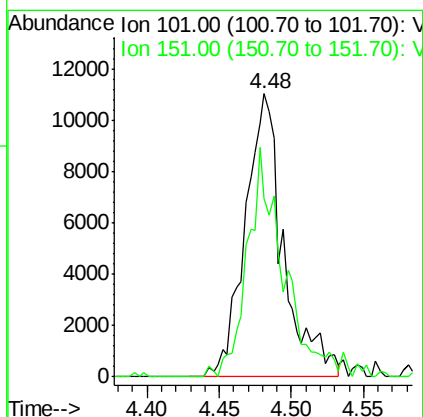
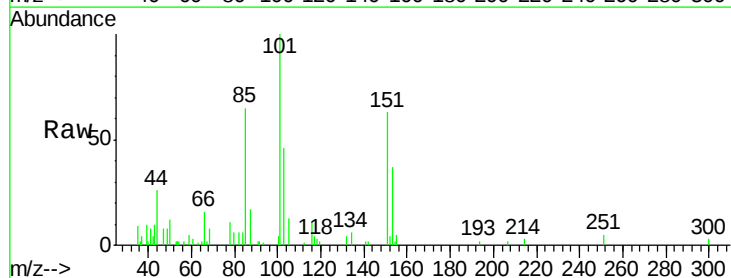
Manual Integrations
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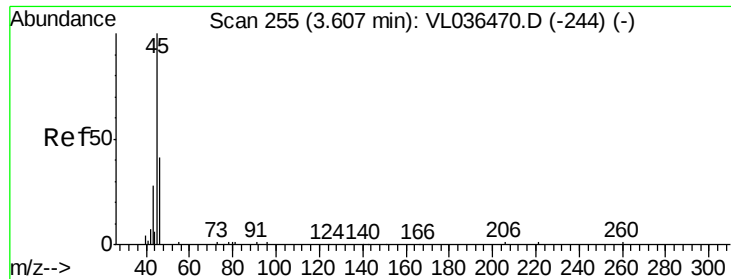
Reviewed By :Semsettin Yesilyurt 04/14/2021
 Supervised By :Mahesh Dadoda 04/14/2021



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.155 ppbv m
 RT: 4.48 min Scan# 527
 Delta R.T. -0.00 min
 Lab File: VL036814.D
 Acq: 13 Apr 2021 23:18

Tgt Ion:101 Resp: 20344
 Ion Ratio Lower Upper
 101 100
 151 78.5 60.9 91.3



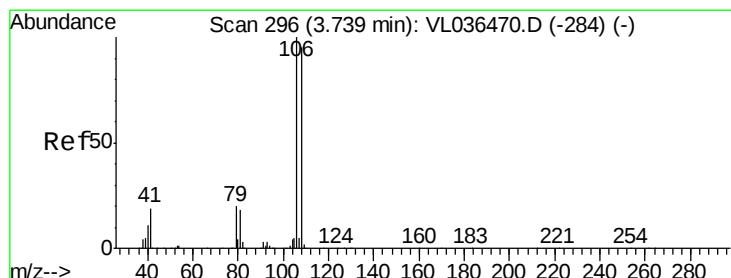
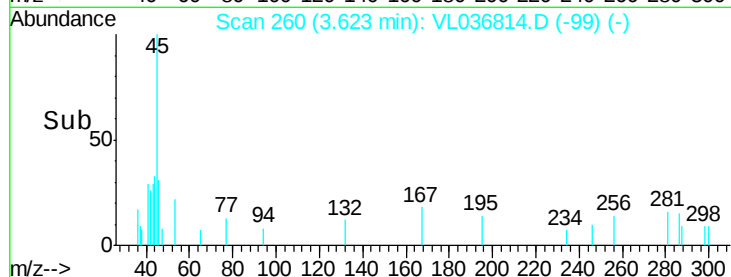
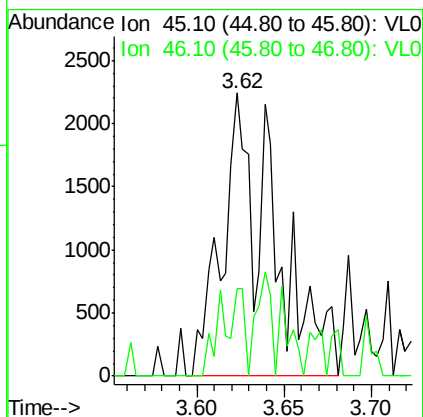
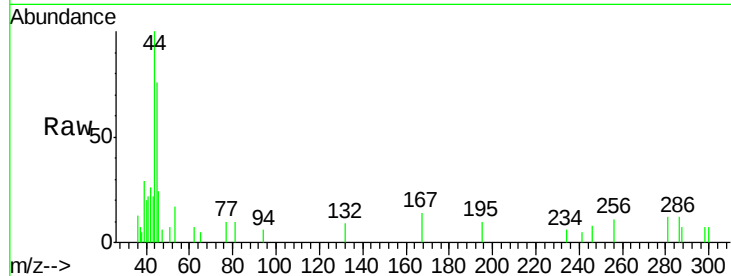


#13
Ethanol
Concen: 0.514 ppbv m
RT: 3.62
Instrument : MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 13 Apr 2021 23:18

Tot Ion:
Ion Ratio
45 100
46 0.

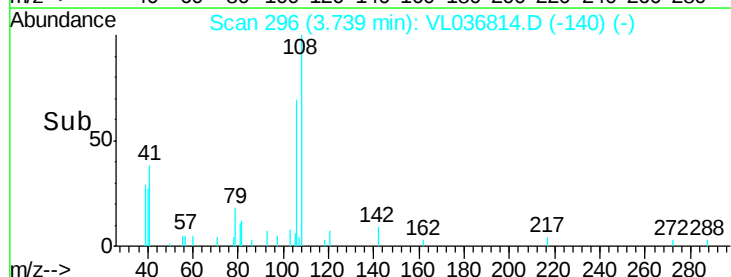
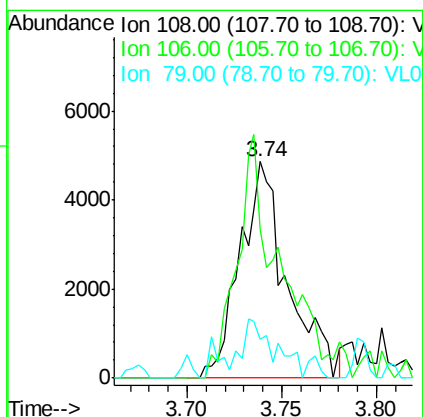
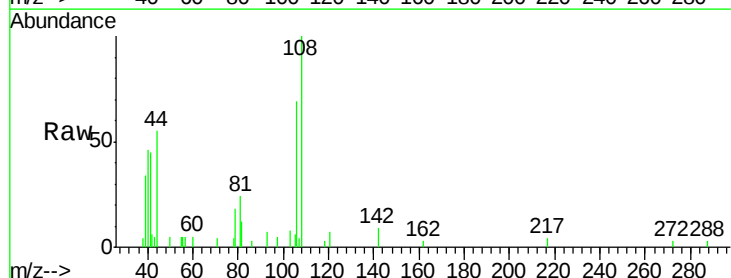
Manual Integrations
APPROVED

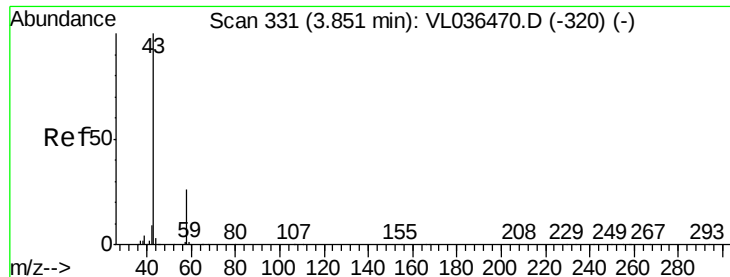
Reviewed By :Semsettin Yesilyurt 04/14/2021
Supervised By :Mahesh Dadoda 04/14/2021



#14
Bromoethene
Concen: 0.154 ppbv m
RT: 3.74 min Scan# 296
Delta R.T. 0.00 min
Lab File: VL036814.D
Acq: 13 Apr 2021 23:18

Tgt Ion:108 Resp: 8385
Ion Ratio Lower Upper
108 100
106 110.7 89.0 133.6
79 27.8 16.6 25.0#





#15

Acetone

Concen: 0.818 ppbv m

RT: 3.86 Instrument :

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 13 Apr 2021 23:18

Tot Ion:

Ion Ratio

43 100

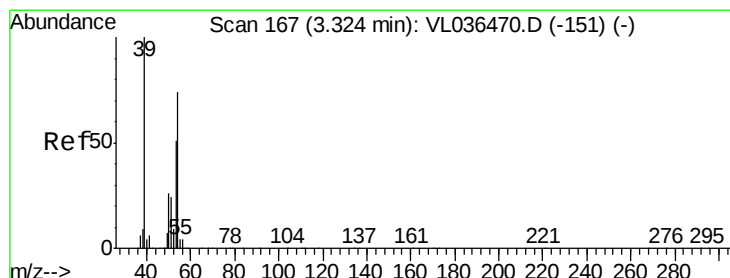
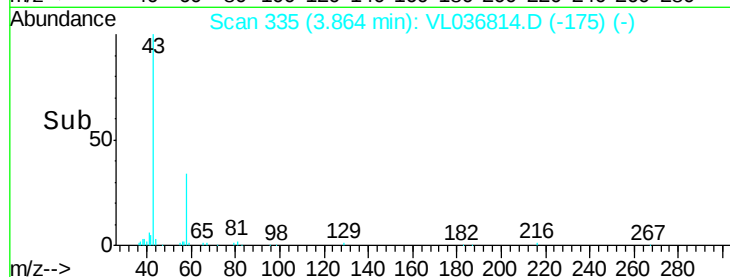
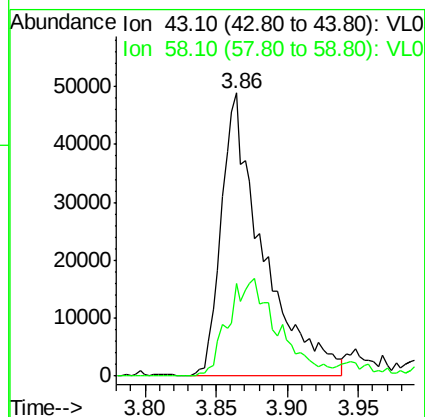
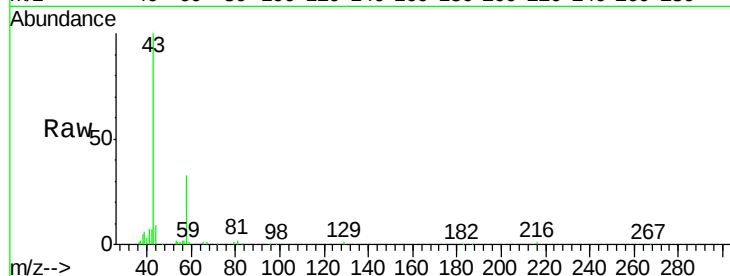
58 0.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/14/2021

Supervised By :Mahesh Dadoda 04/14/2021



#16

1,3-Butadiene

Concen: 0.211 ppbv m

RT: 3.32 min Scan# 166

Delta R.T. -0.00 min

Lab File: VL036814.D

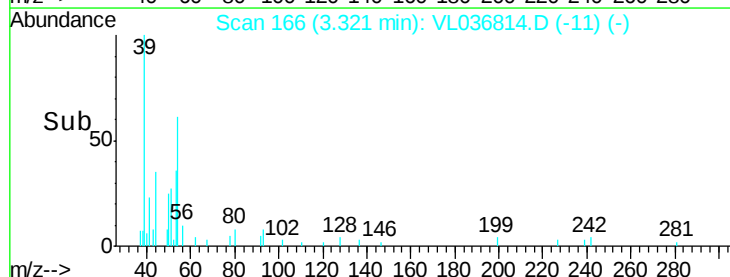
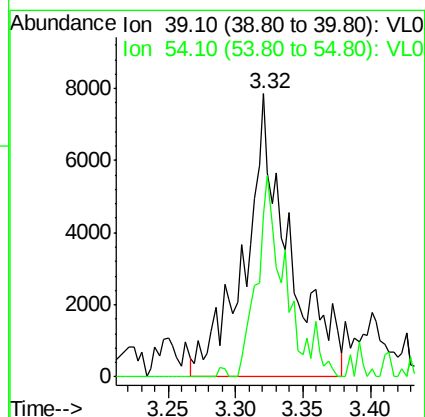
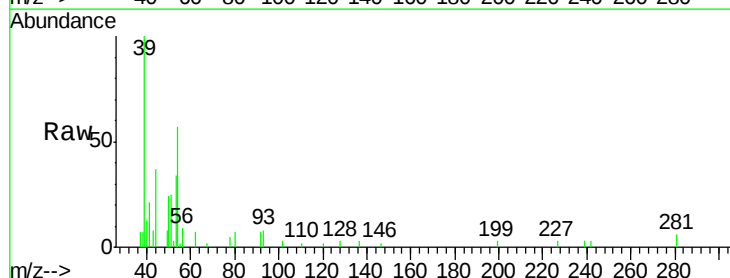
Acq: 13 Apr 2021 23:18

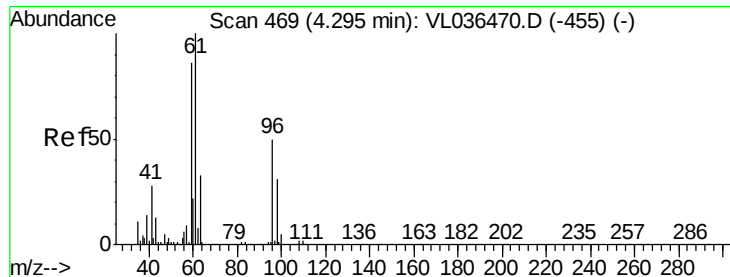
Tgt Ion: 39 Resp: 17811

Ion Ratio Lower Upper

39 100

54 0.0 58.8 88.2#





#17

tert-Butyl alcohol

Concen: 0.197 ppbv m

RT: 4.33 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

Acq: 13 Apr 2021 23:18

Tot Ion:

Ion Ratio

59 100

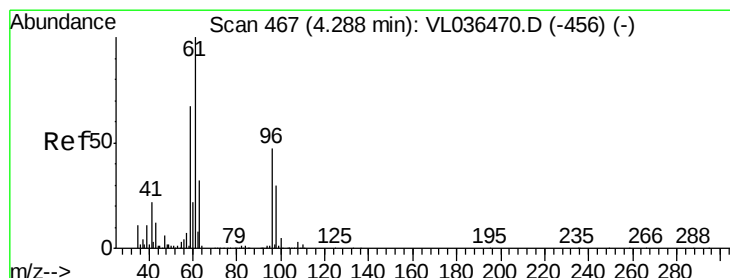
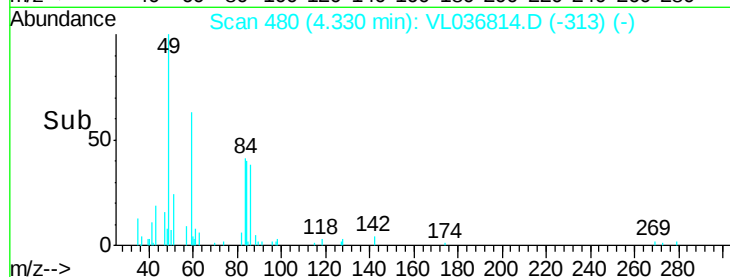
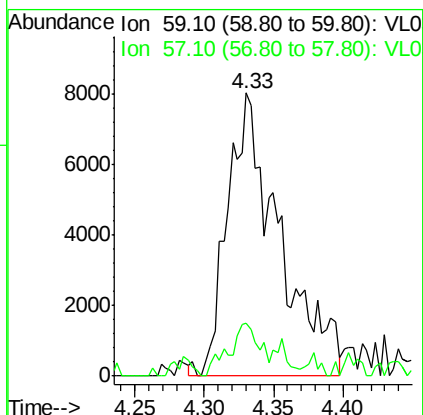
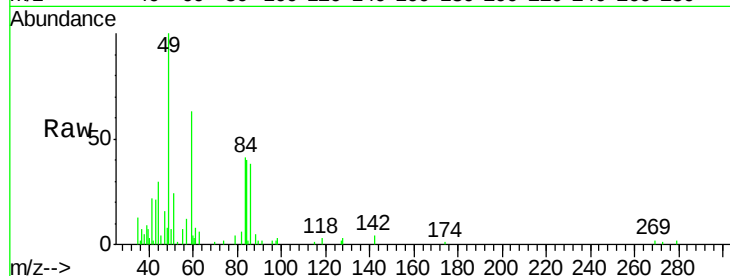
57 0.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/14/2021

Supervised By :Mahesh Dadoda 04/14/2021



#18

1,1-Dichloroethene

Concen: 0.155 ppbv m

RT: 4.28 min Scan# 465

Delta R.T. -0.01 min

Lab File: VL036814.D

Acq: 13 Apr 2021 23:18

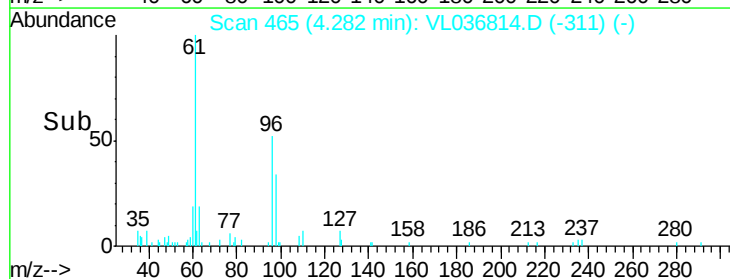
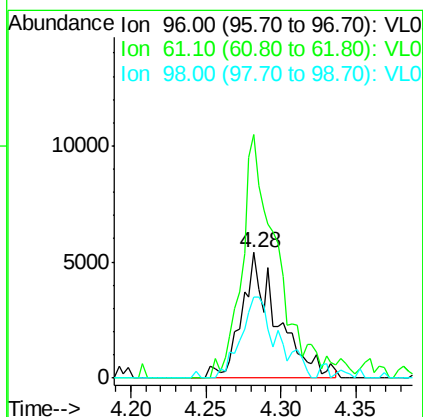
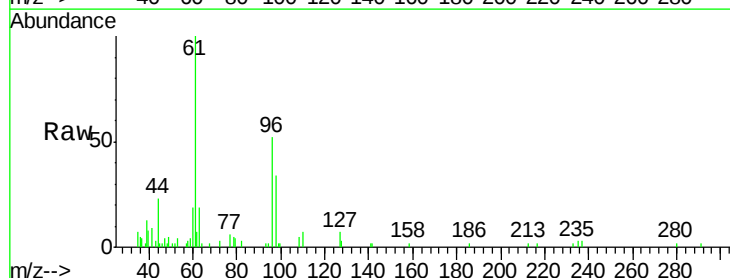
Tgt Ion: 96 Resp: 9024

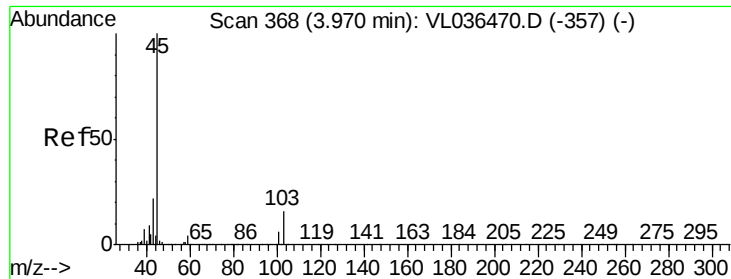
Ion Ratio Lower Upper

96 100

61 193.8 168.6 253.0

98 65.0 50.8 76.2





#19

Isopropyl Alcohol

Concen: 0.209 ppbv m

RT: 3.99 Instrument :

Delta R.T. MSVOA_1

Lab File: ClientSampleId :

Acq: 13 Apr 2021 23:18

Tot Ion:

Ion Ratio

45 100

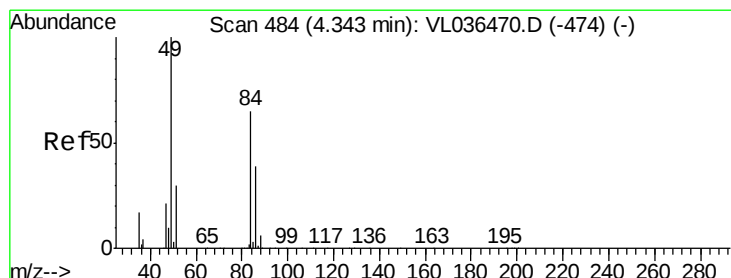
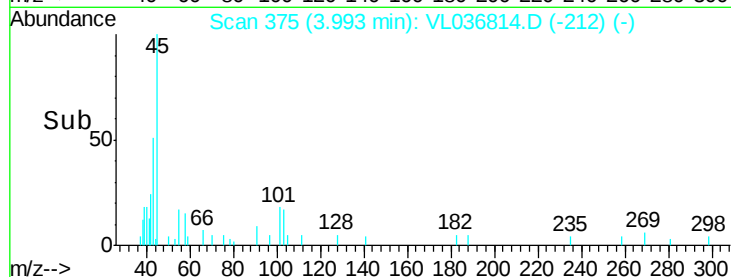
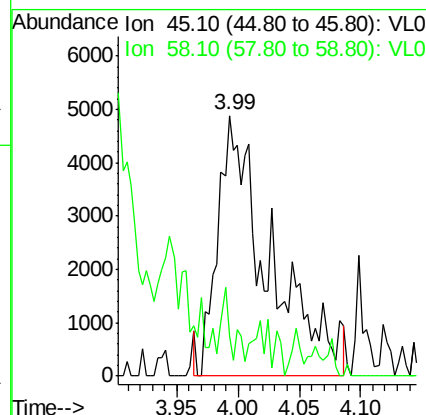
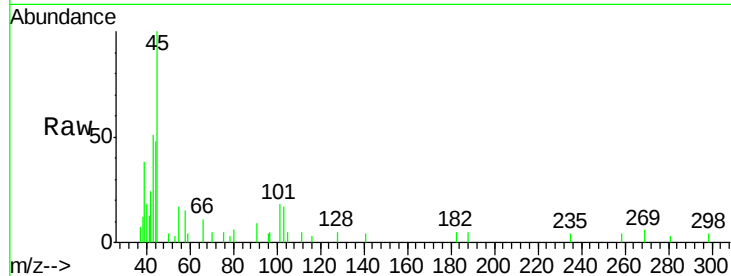
58 0.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/14/2021

Supervised By :Mahesh Dadoda 04/14/2021



#20

Methylene Chloride

Concen: 0.384 ppbv m

RT: 4.34 min Scan# 484

Delta R.T. 0.00 min

Lab File: VL036814.D

Acq: 13 Apr 2021 23:18

Tgt Ion: 84 Resp: 21846

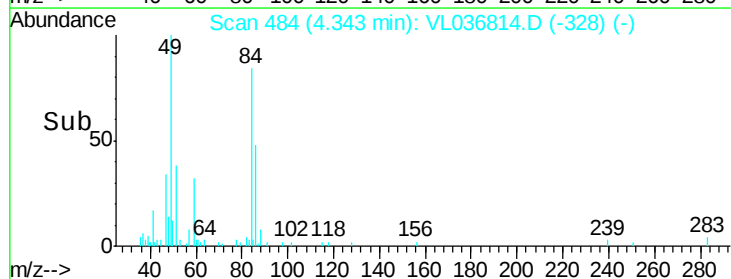
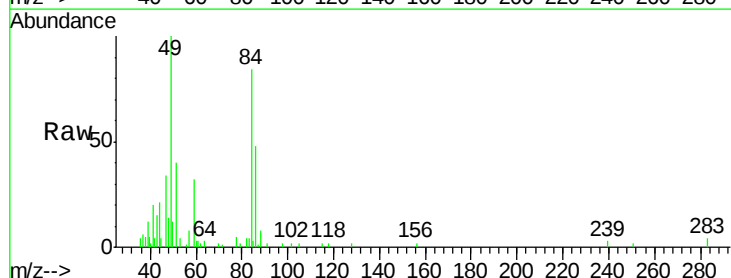
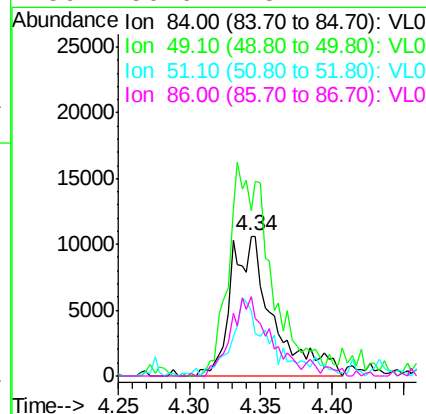
Ion Ratio Lower Upper

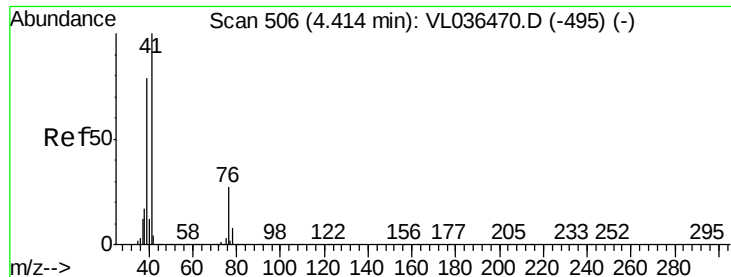
84 100

49 118.7 122.9 184.3#

51 47.1 36.9 55.3

86 56.6 48.2 72.4





#21

Allvl Chloride

Concen: 0.134 ppbv m

RT: 4.41 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 13 Apr 2021 23:18

Tot Ion:

Ion Ratio

41 100

76 23.

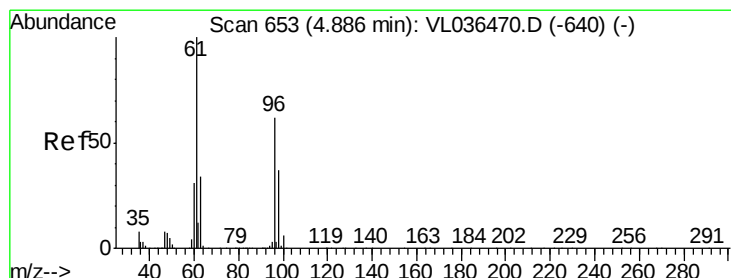
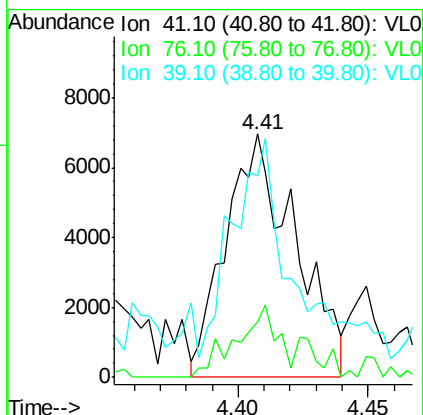
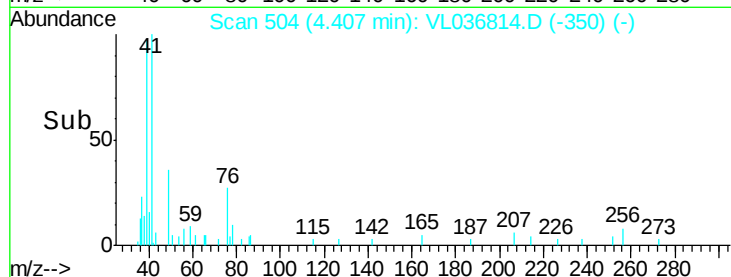
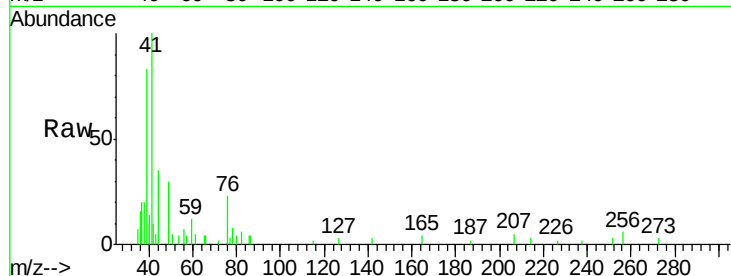
39 92.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/14/2021

Supervised By :Mahesh Dadoda 04/14/2021



#22

trans-1,2-Dichloroethene

Concen: 0.167 ppbv m

RT: 4.88 min Scan# 651

Delta R.T. -0.01 min

Lab File: VL036814.D

Acq: 13 Apr 2021 23:18

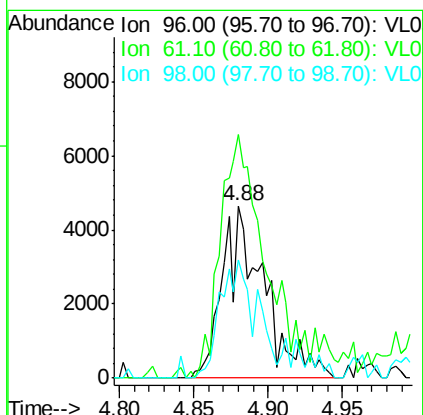
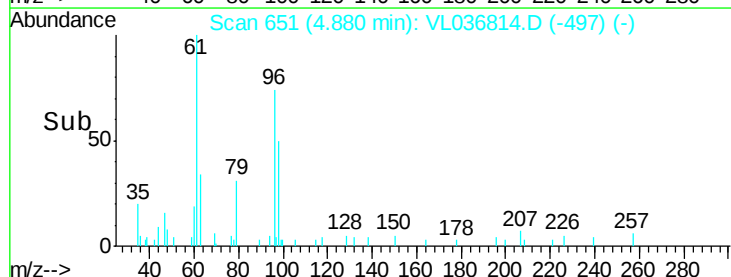
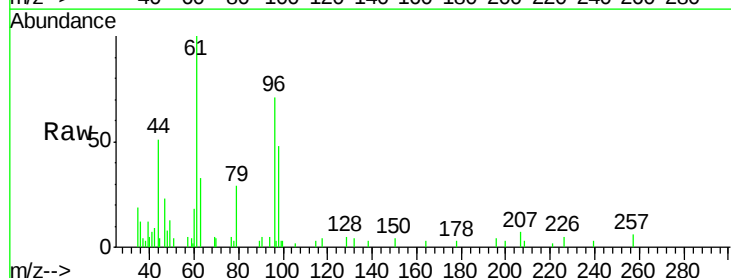
Tgt Ion: 96 Resp: 9021

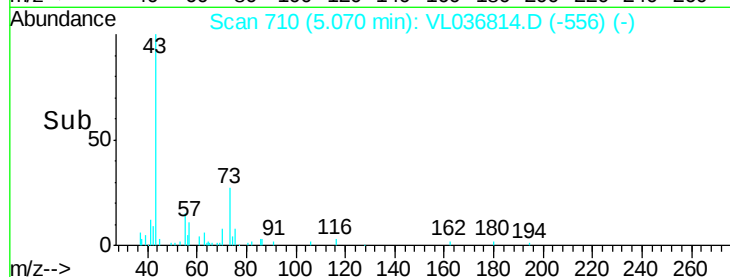
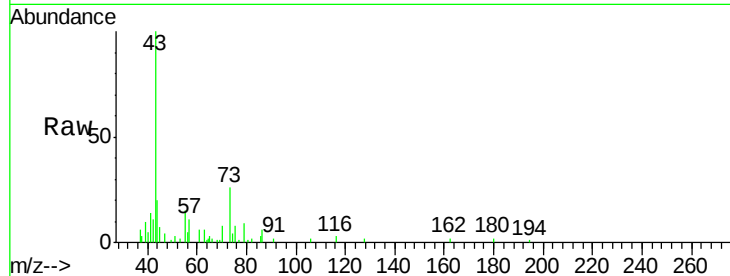
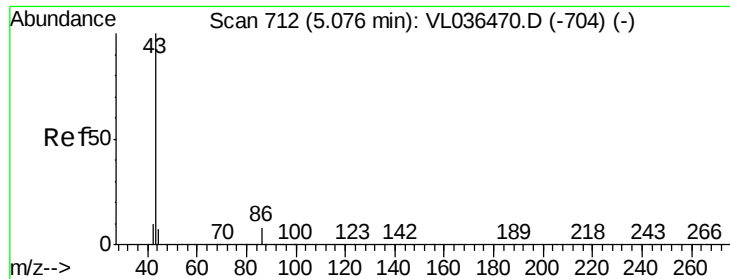
Ion Ratio Lower Upper

96 100

61 141.2 129.4 194.0

98 68.2 48.2 72.4



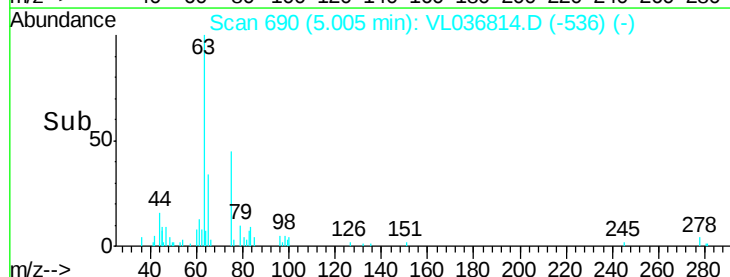
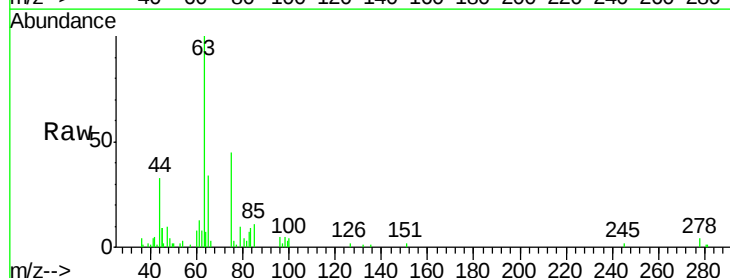
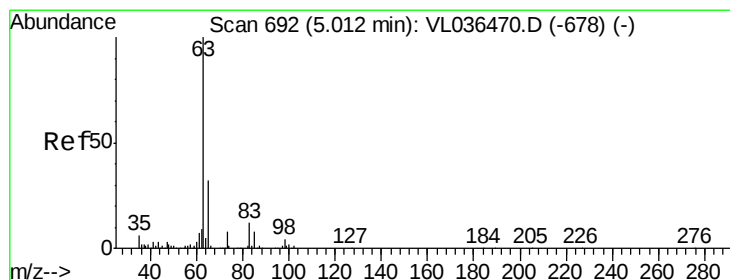
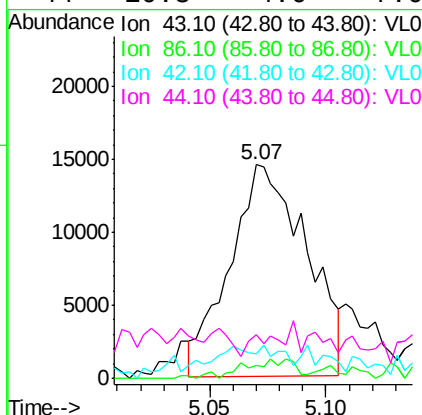


#23
 Vinyl Acetate
 Concen: 0.161 ppbv
 RT: 5.07
 Delta R.T.: MSVOA_L
 Lab File: ClientSampleId :
 Acq: 13 Apr 2021 23:18

Tot Ion: 43.10 (42.80 to 43.80): VL0
 Ion Ratio: 43 100
 86 5.
 42 6.
 44 10.3 4.6 7.0#

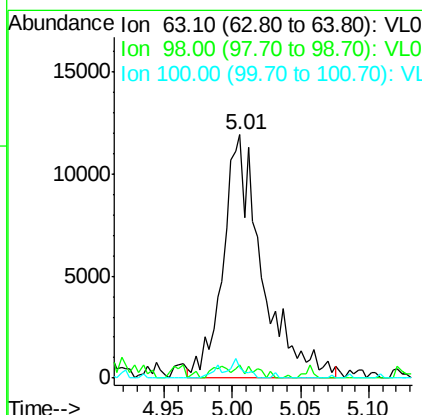
Manual Integrations
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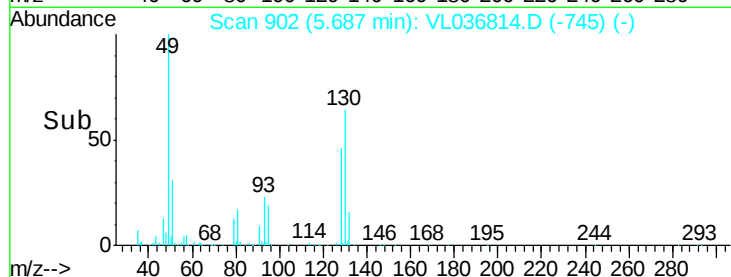
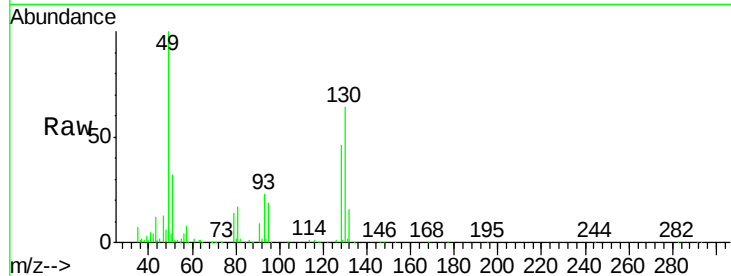
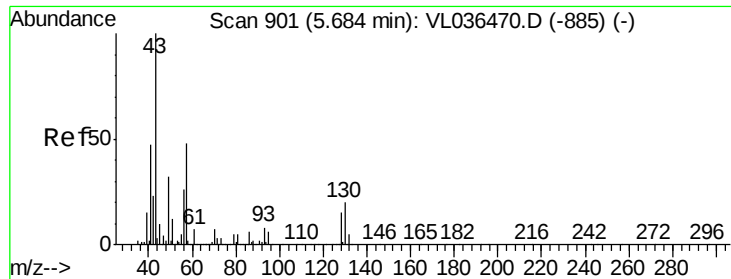
Reviewed By :Semsettin Yesilyurt 04/14/2021
 Supervised By :Mahesh Dadoda 04/14/2021



#24
 1,1-Dichloroethane
 Concen: 0.156 ppbv m
 RT: 5.01 min Scan# 690
 Delta R.T. -0.01 min
 Lab File: VL036814.D
 Acq: 13 Apr 2021 23:18

Tgt Ion: 63 Resp: 23611
 Ion Ratio Lower Upper
 63 100
 98 5.4 2.1 6.2
 100 4.3 0.9 2.8#



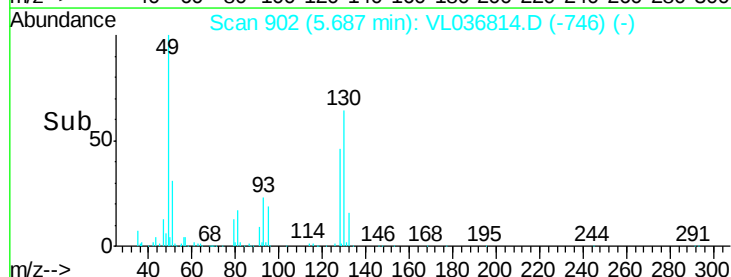
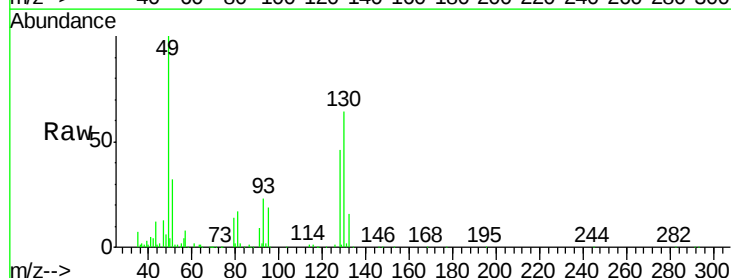
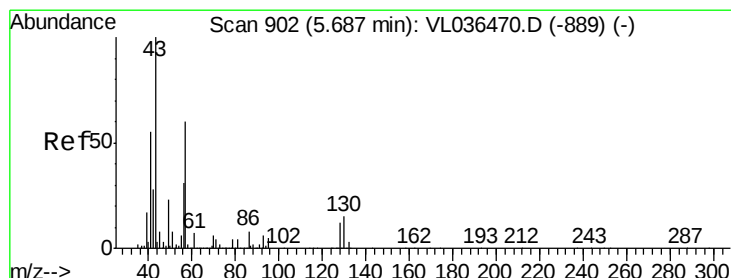
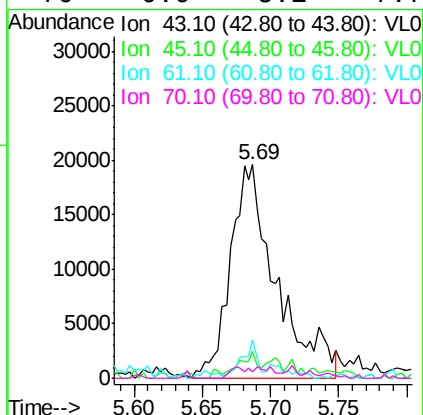


#25
Ethyl Acetate
Concen: 0.158 ppbv m
RT: 5.69
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 13 Apr 2021 23:18

Tot Ion:
Ion Ratio
43 100
45 10.
61 10.
70 0.0 5.1 7.7#

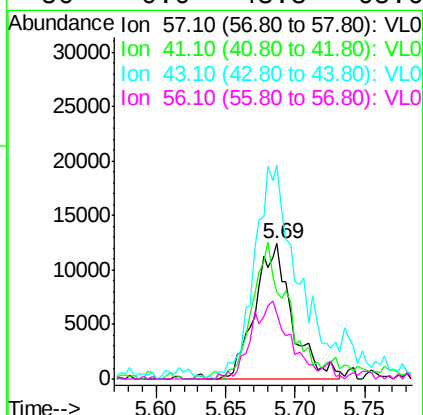
Manual Integrations
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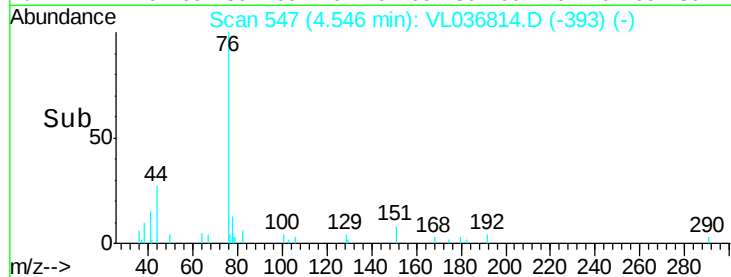
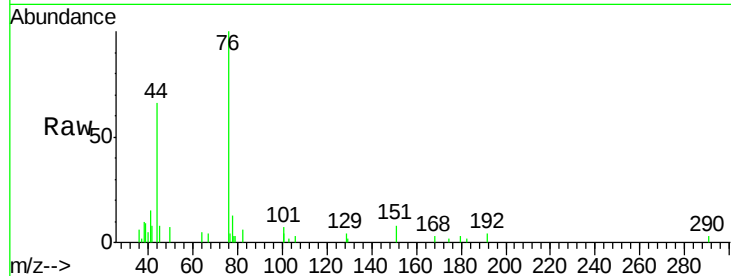
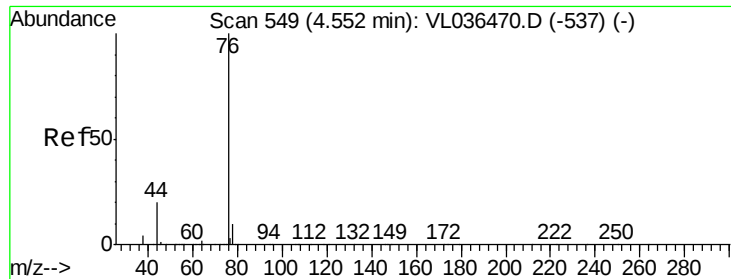
Reviewed By :Semsettin Yesilyurt 04/14/2021
Supervised By :Mahesh Dadoda 04/14/2021



#26
Hexane
Concen: 0.172 ppbv m
RT: 5.69 min Scan# 902
Delta R.T. 0.00 min
Lab File: VL036814.D
Acq: 13 Apr 2021 23:18

Tgt Ion: 57 Resp: 23055
Ion Ratio Lower Upper
57 100
41 0.0 77.2 115.8#
43 0.0 173.8 260.6#
56 0.0 43.8 65.6#





#27

Carbon Disulfide

Concen: 0.109 ppbv m

RT: 4.55 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 13 Apr 2021 23:18

Tot Ion:

Ion Ratio

76 100

44 0.

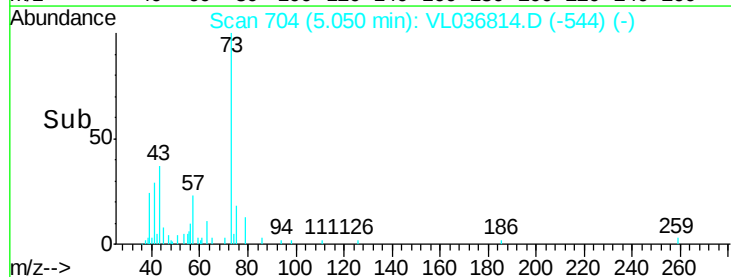
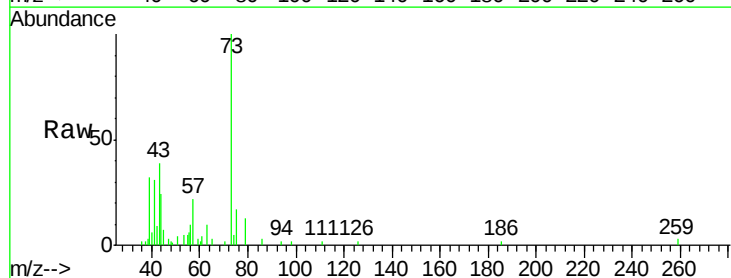
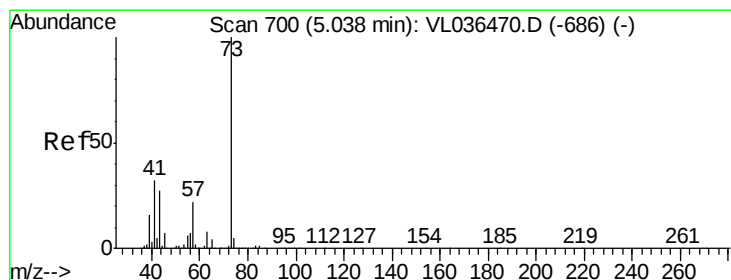
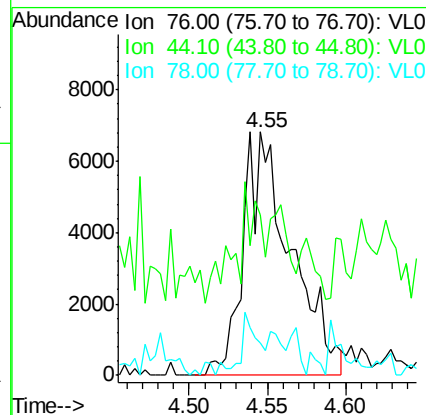
78 0.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/14/2021

Supervised By :Mahesh Dadoda 04/14/2021



#28

Methyl tert-Butyl Ether

Concen: 0.133 ppbv

RT: 5.05 min Scan# 704

Delta R.T. 0.01 min

Lab File: VL036814.D

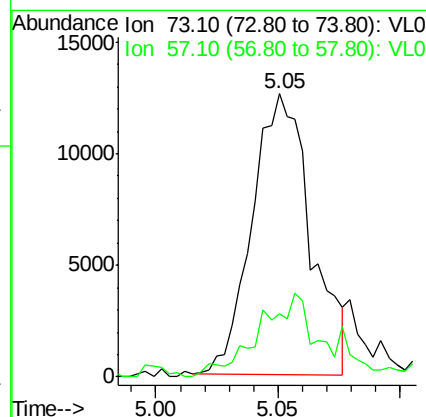
Acq: 13 Apr 2021 23:18

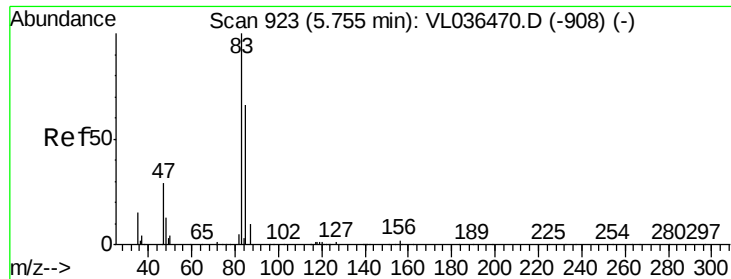
Tgt Ion: 73 Resp: 21037

Ion Ratio Lower Upper

73 100

57 34.5 18.5 27.7#





#29

Chloroform

Concen: 0.150 ppbv m

RT: 5.74 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 13 Apr 2021 23:18

Tot Ion:

Ion Ratio

83 100

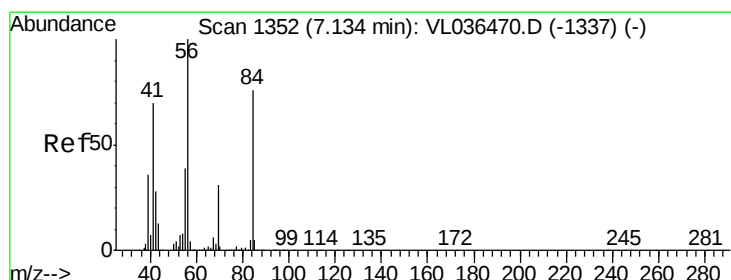
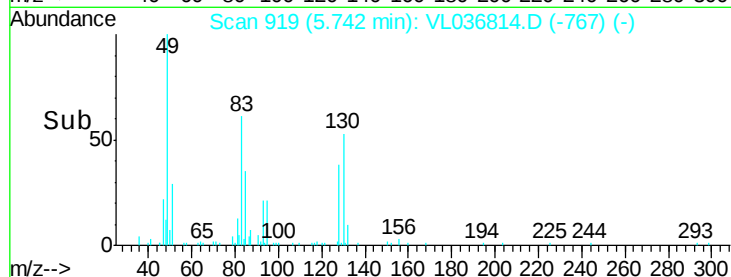
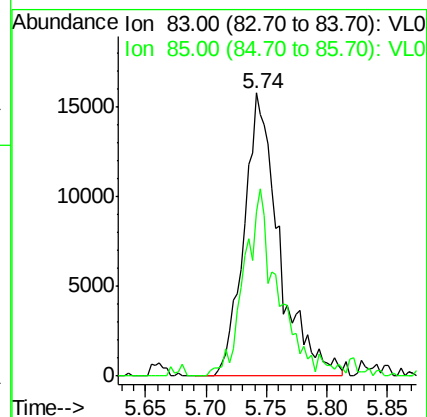
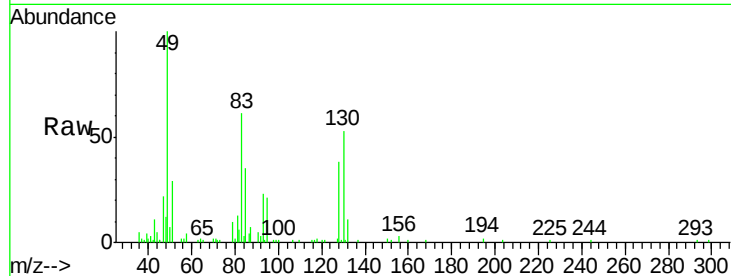
85 58.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/14/2021

Supervised By :Mahesh Dadoda 04/14/2021



#30

Cyclohexane

Concen: 0.193 ppbv m

RT: 7.13 min Scan# 1350

Delta R.T. -0.01 min

Lab File: VL036814.D

Acq: 13 Apr 2021 23:18

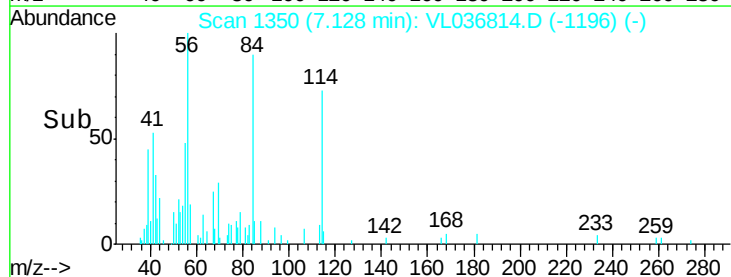
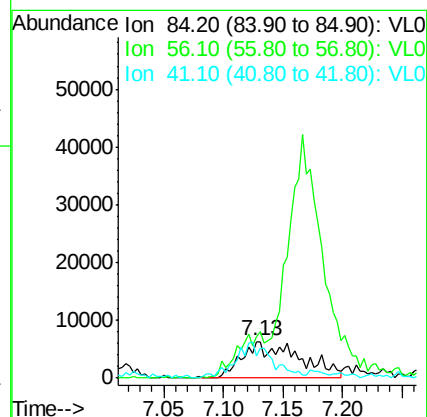
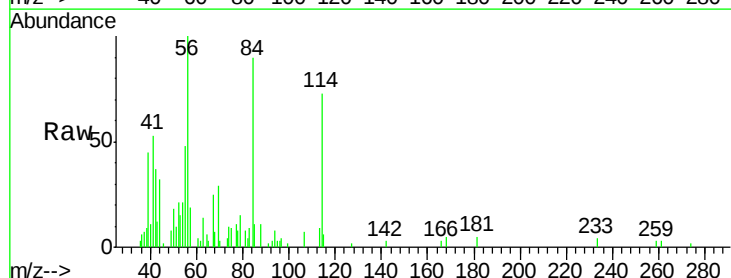
Tgt Ion: 84 Resp: 20922

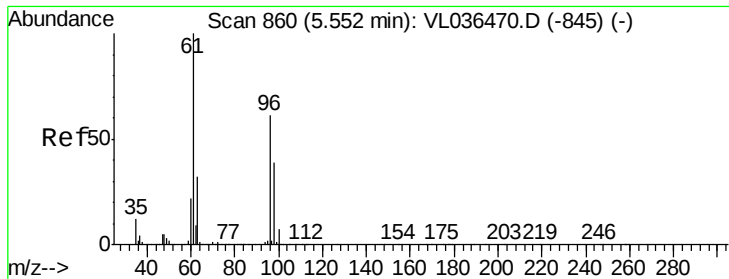
Ion Ratio Lower Upper

84 100

56 0.0 114.6 171.8#

41 59.0 75.3 112.9#





#31

cis-1,2-Dichloroethene

Concen: 0.133 ppbv m

RT: 5.54 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 13 Apr 2021 23:18

Tot Ion:

Ion Ratio

61 100

96 64.

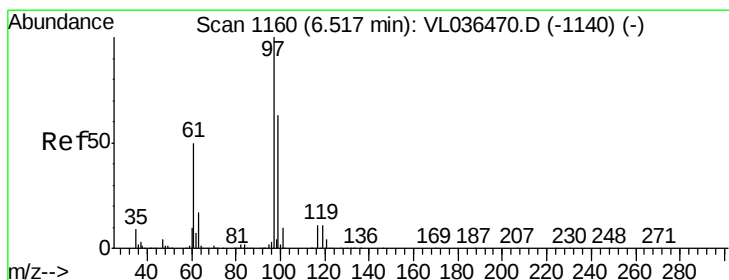
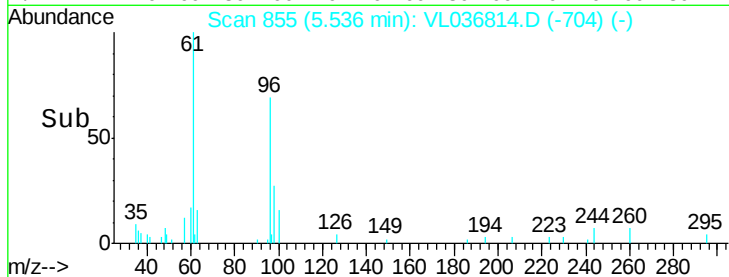
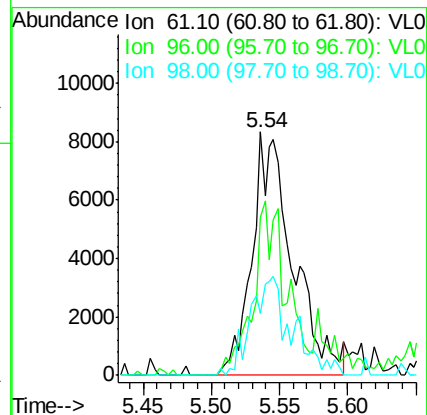
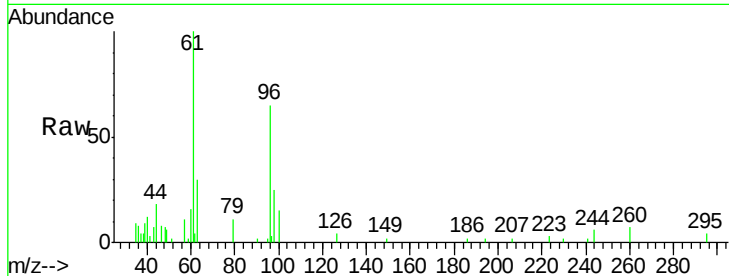
98 25.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/14/2021

Supervised By :Mahesh Dadoda 04/14/2021



#32

1,1,1-Trichloroethane

Concen: 0.130 ppbv m

RT: 6.51 min Scan# 1157

Delta R.T. -0.01 min

Lab File: VL036814.D

Acq: 13 Apr 2021 23:18

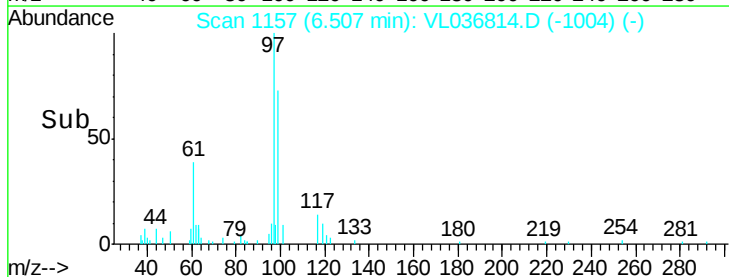
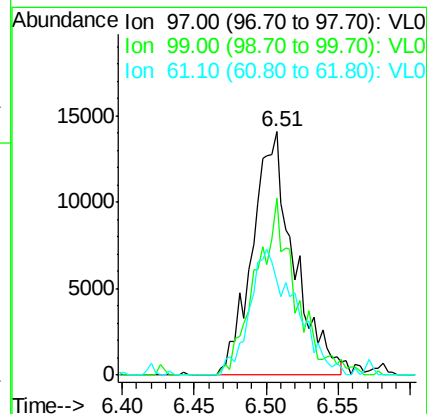
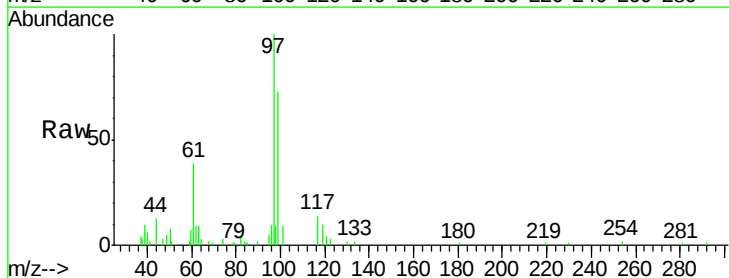
Tgt Ion: 97 Resp: 28162

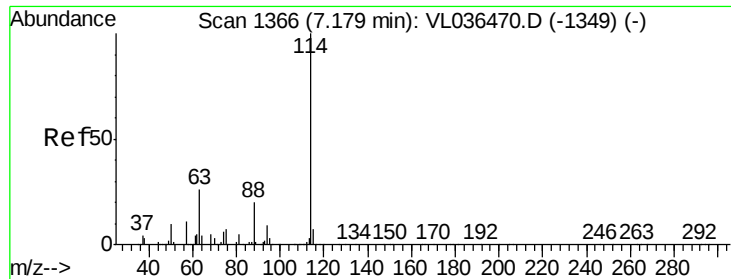
Ion Ratio Lower Upper

97 100

99 69.8 51.4 77.0

61 58.0 40.6 60.8



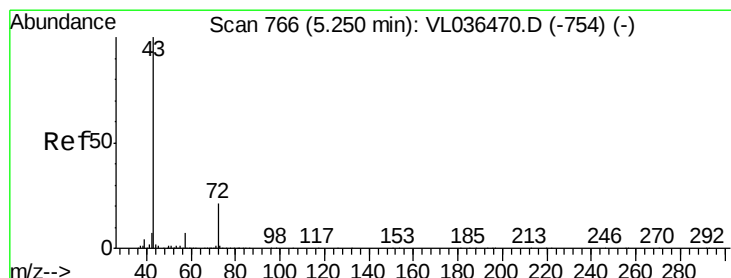
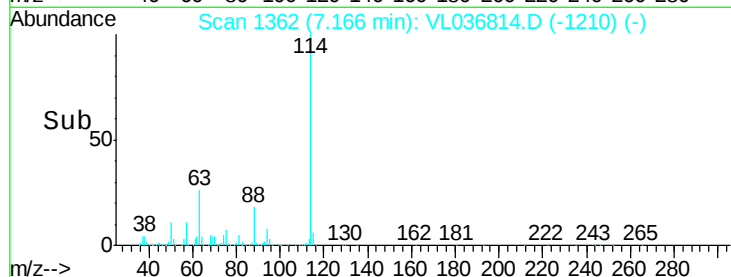
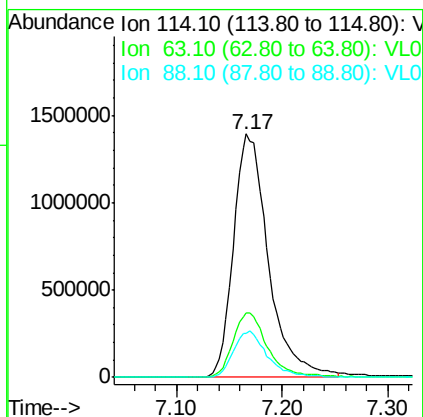
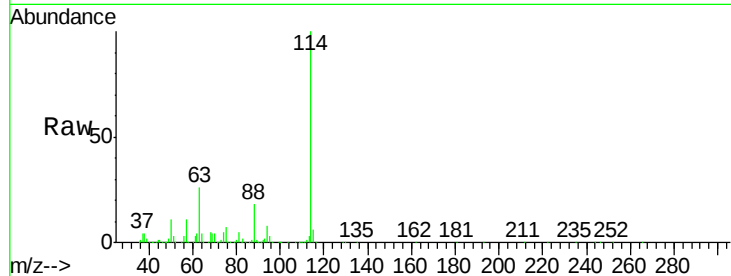


#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.17
 Delta R.T.: MSVOA_L
 Lab File: ClientSampleId :
 Acq: 13 Apr 2021 23:18

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

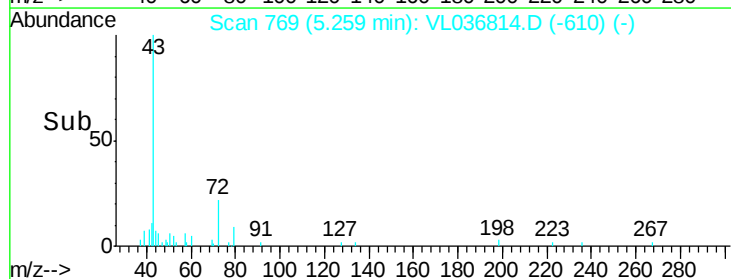
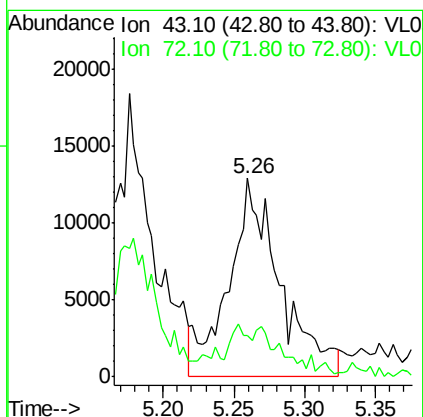
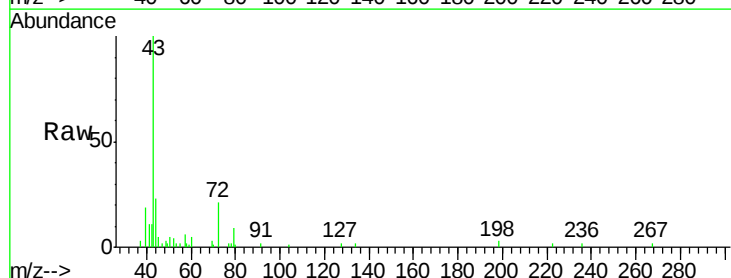
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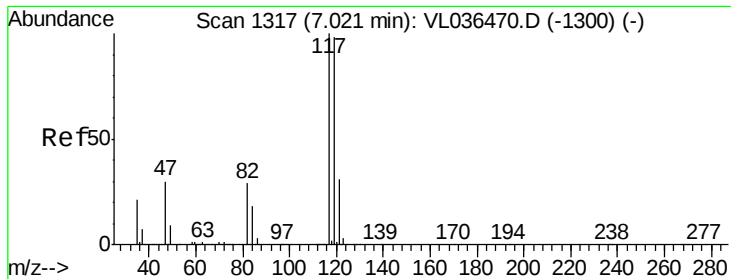
Reviewed By :Semsettin Yesilyurt 04/14/2021
 Supervised By :Mahesh Dadoda 04/14/2021



#34
 2-Butanone
 Concen: 0.209 ppbv m
 RT: 5.26 min Scan# 769
 Delta R.T.: 0.01 min
 Lab File: VL036814.D
 Acq: 13 Apr 2021 23:18

Tgt Ion: 43 Resp: 32694
 Ion Ratio Lower Upper
 43 100
 72 32.1 17.0 25.6#





#35

Carbon Tetrachloride

Concen: 0.112 ppbv m

RT: 7.02 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 13 Apr 2021 23:18

Tot Ion:1

Ion Rati

117 100

119 83.

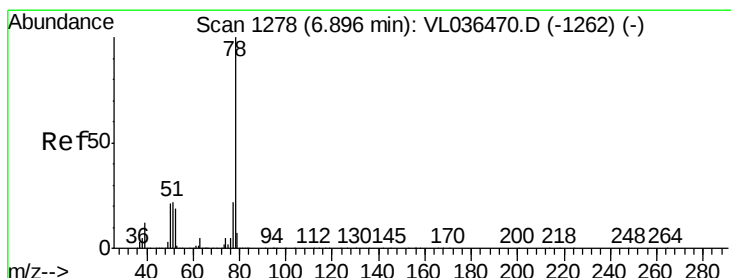
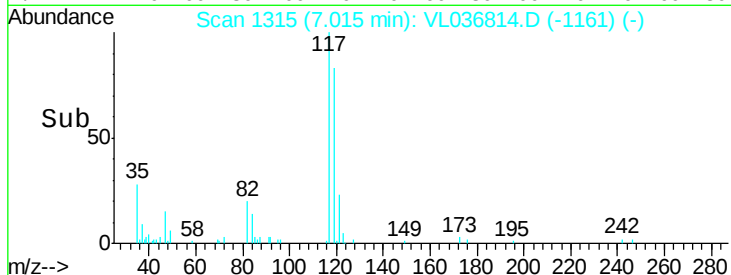
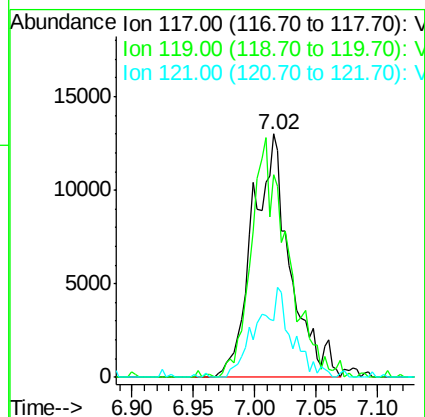
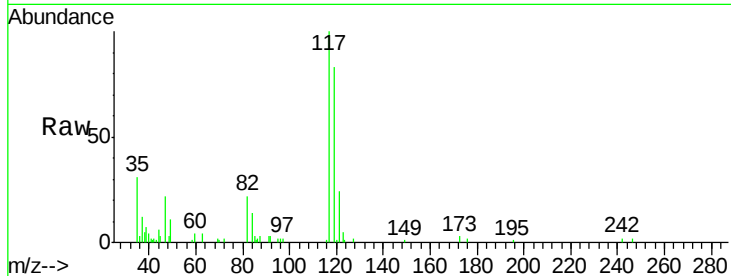
121 23.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/14/2021

Supervised By :Mahesh Dadoda 04/14/2021



#36

Benzene

Concen: 0.134 ppbv m

RT: 6.88 min Scan# 1273

Delta R.T. -0.02 min

Lab File: VL036814.D

Acq: 13 Apr 2021 23:18

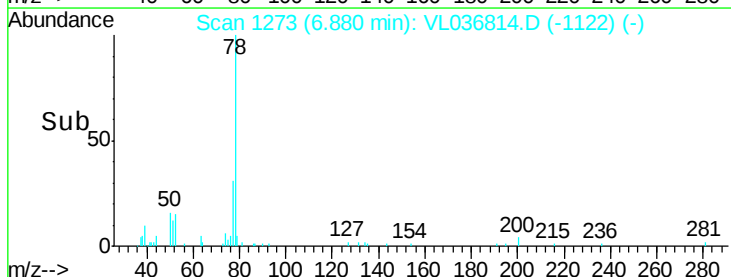
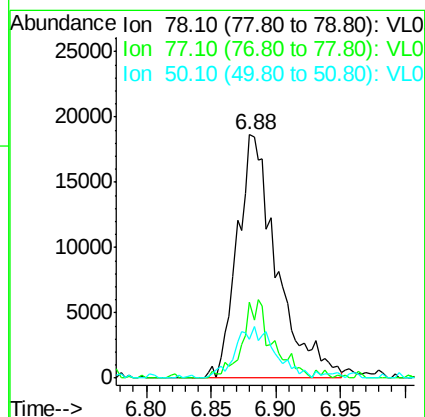
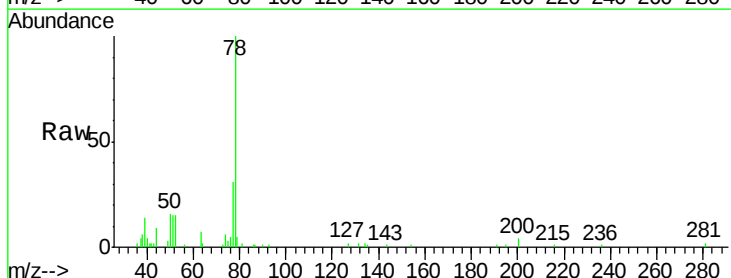
Tgt Ion: 78 Resp: 39434

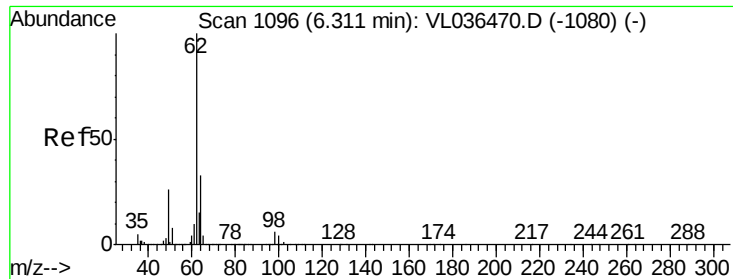
Ion Ratio Lower Upper

78 100

77 31.2 18.0 27.0#

50 16.0 16.5 24.7#



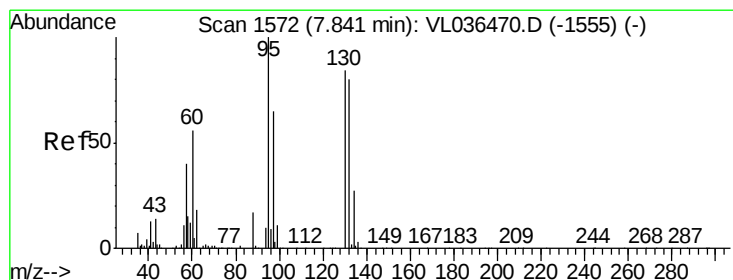
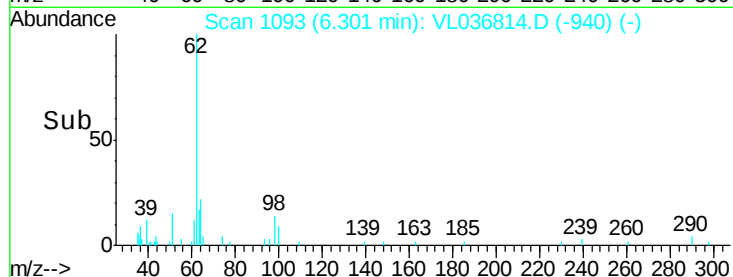
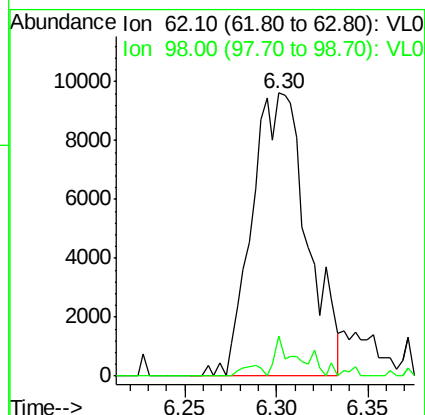
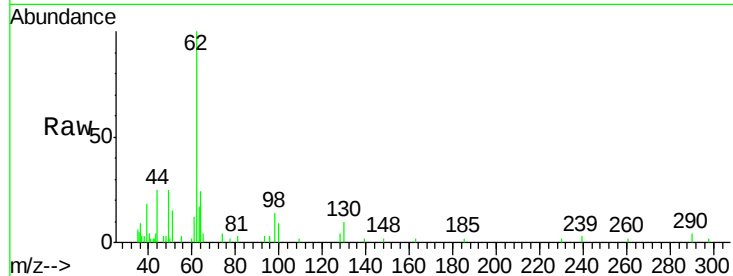


#37
 1,2-Dichloroethane
 Concen: 0.116 ppbv m
 RT: 6.30 Instrument : MSVOA_1
 Delta R.T. :
 Lab File: ClientSampleId :
 Acq: 13 Apr 2021 23:18

Tot Ion:
 Ion Ratio
 62 100
 98 8.

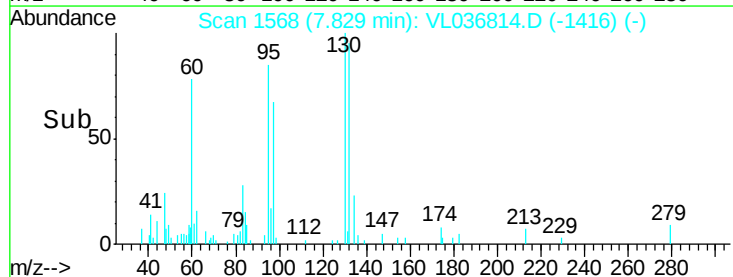
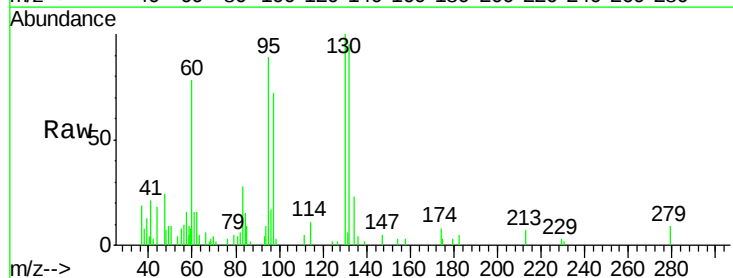
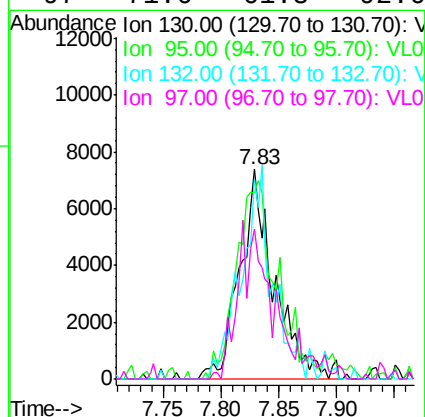
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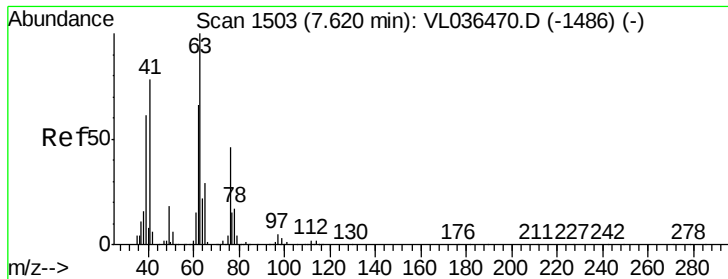
Reviewed By :Semsettin Yesilyurt 04/14/2021
 Supervised By :Mahesh Dadoda 04/14/2021



#38
 Trichloroethene
 Concen: 0.134 ppbv m
 RT: 7.83 min Scan# 1568
 Delta R.T. -0.01 min
 Lab File: VL036814.D
 Acq: 13 Apr 2021 23:18

Tgt Ion:130 Resp: 15377
 Ion Ratio Lower Upper
 130 100
 95 88.8 95.7 143.5#
 132 95.4 76.2 114.4
 97 71.6 61.8 92.6



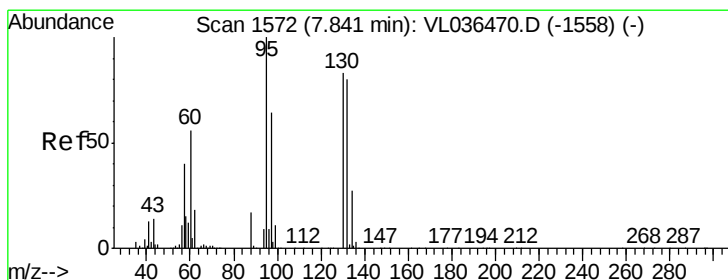
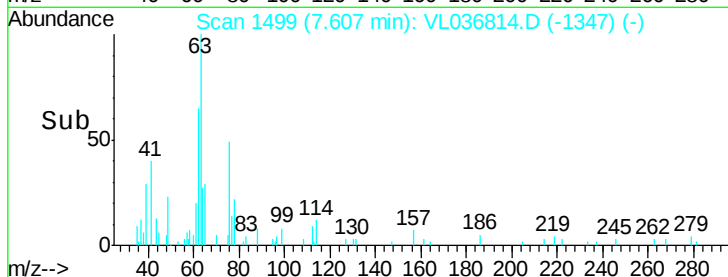
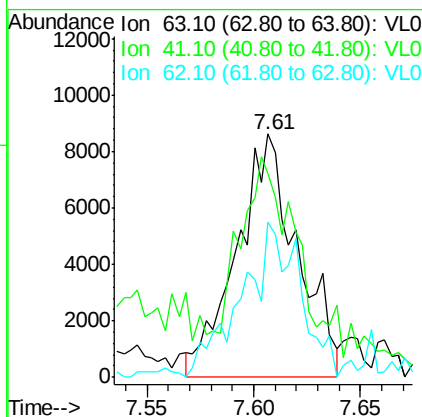
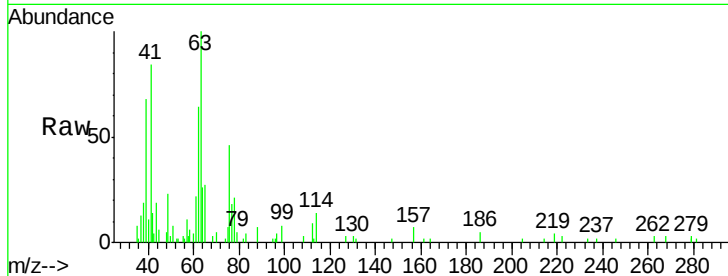


#39
 1,2-Dichloropropane
 Concen: 0.142 ppbv m
 RT: 7.61 Instrument : MSVOA_1
 Delta R.T. ClientSampleId :
 Lab File: VIBLK
 Acq: 13 Apr 2021 23:18

Tot Ion:
 Ion Ratio
 63 100
 41 83.
 62 63.

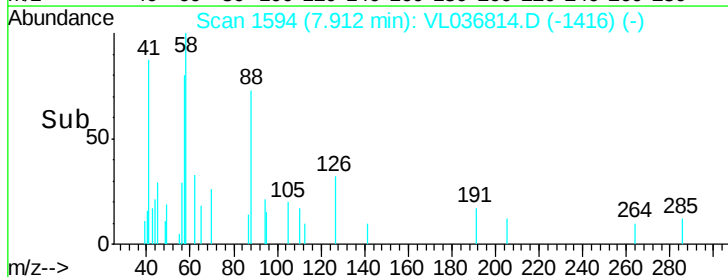
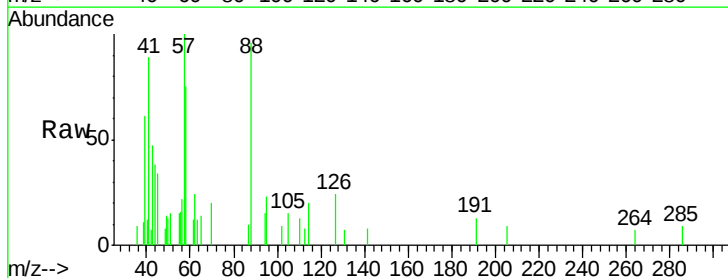
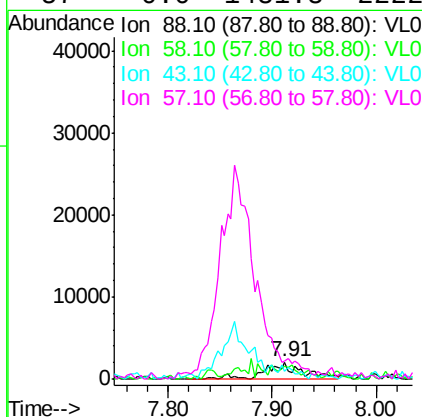
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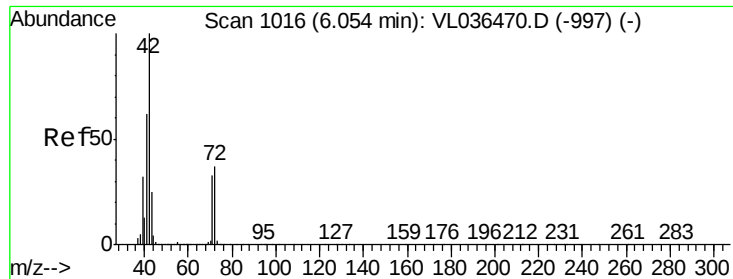
Reviewed By :Semsettin Yesilyurt 04/14/2021
 Supervised By :Mahesh Dadoda 04/14/2021



#40
 1,4-Dioxane
 Concen: 0.181 ppbv m
 RT: 7.91 min Scan# 1594
 Delta R.T. 0.07 min
 Lab File: VL036814.D
 Acq: 13 Apr 2021 23:18

Tgt Ion: 88 Resp: 5059
 Ion Ratio Lower Upper
 88 100
 58 24.6 134.1 201.1#
 43 0.0 346.6 520.0#
 57 0.0 1481.8 2222.8#





#41

Tetrahydrofuran

Concen: 0.113 ppbv m

RT: 6.08 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 13 Apr 2021 23:18

Tot Ion:

Ion Ratio

42 100

72 0.

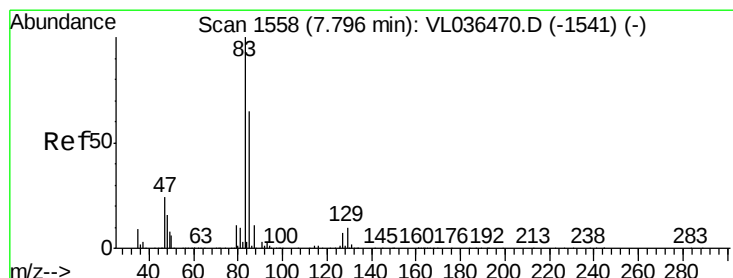
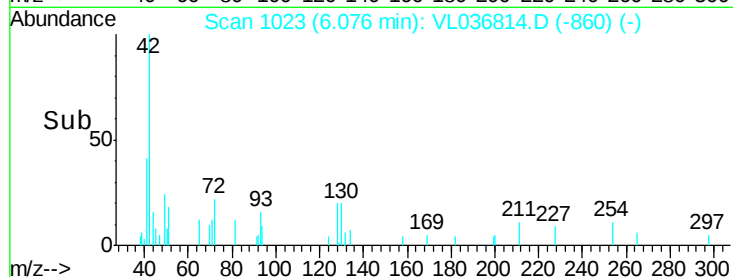
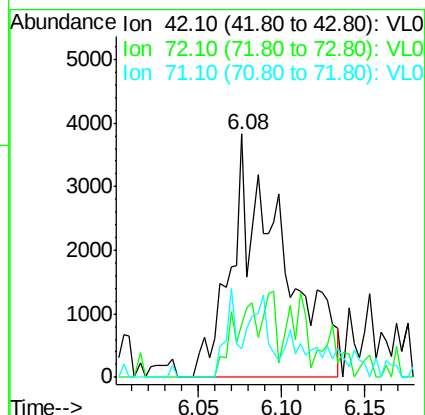
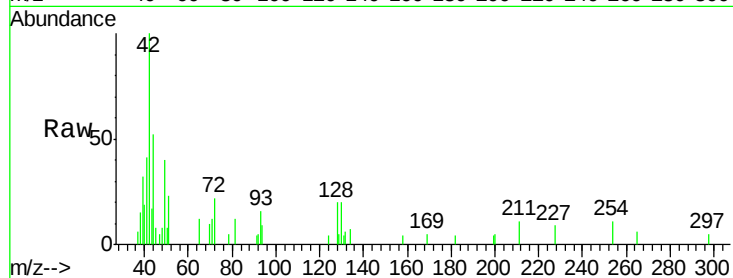
71 0.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/14/2021

Supervised By :Mahesh Dadoda 04/14/2021



#42

Bromodichloromethane

Concen: 0.112 ppbv m

RT: 7.79 min Scan# 1556

Delta R.T. -0.01 min

Lab File: VL036814.D

Acq: 13 Apr 2021 23:18

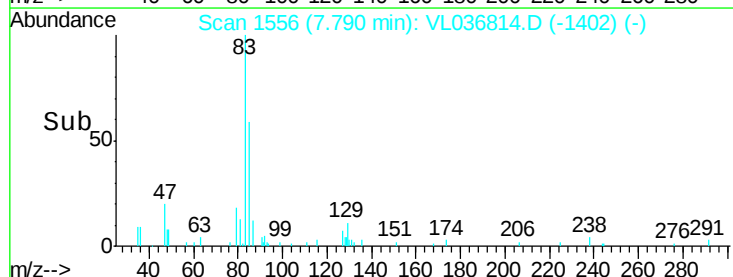
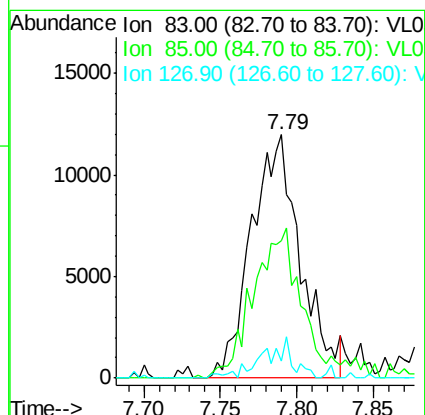
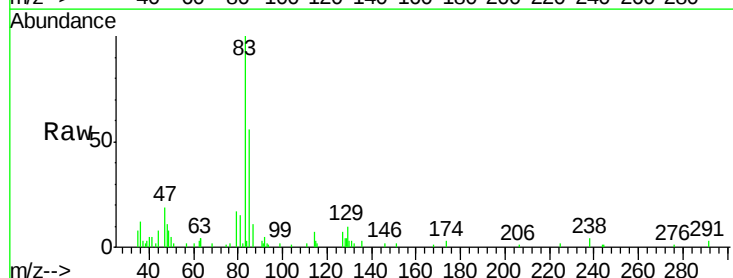
Tgt Ion: 83 Resp: 26587

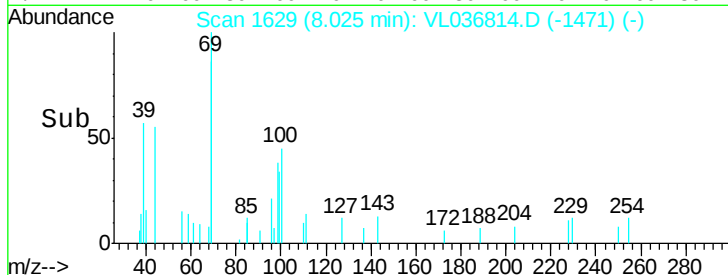
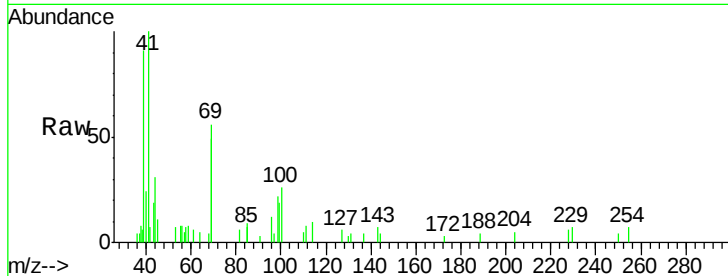
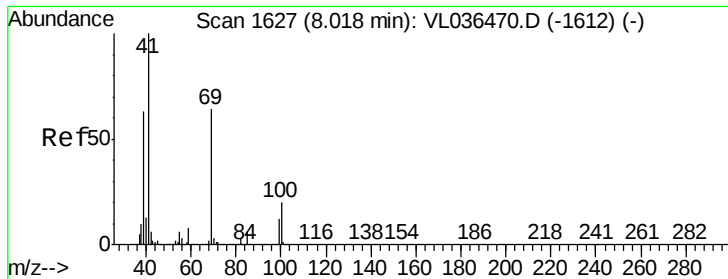
Ion Ratio Lower Upper

83 100

85 56.4 51.8 77.6

127 7.2 5.8 8.8





#43

Methyl Methacrylate

Concen: 0.097 ppbv

RT: 8.02

Instrument: MSVOA_1

Delta R.T.

Lab File: ClientSampleId:

Acq: 13 Apr 2021 23:18

Tot Ion:

Ion Ratio

69 100

41 159.

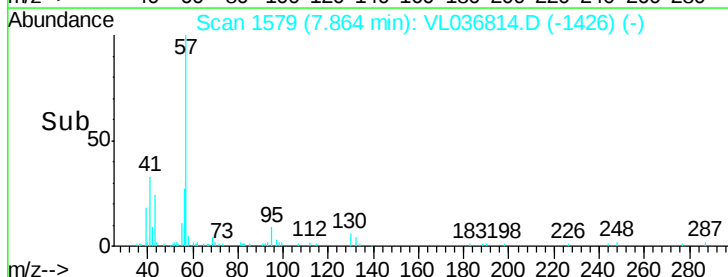
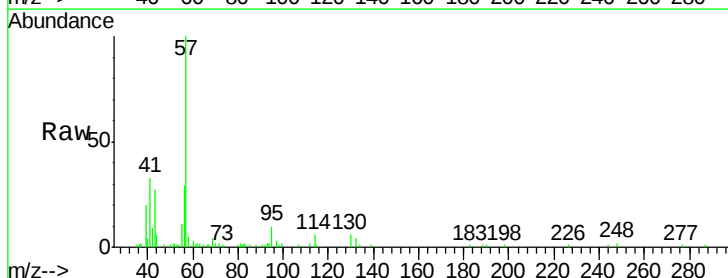
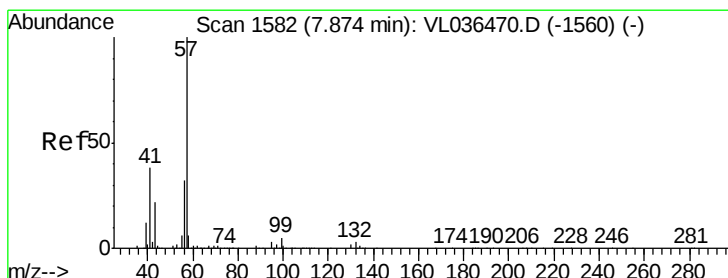
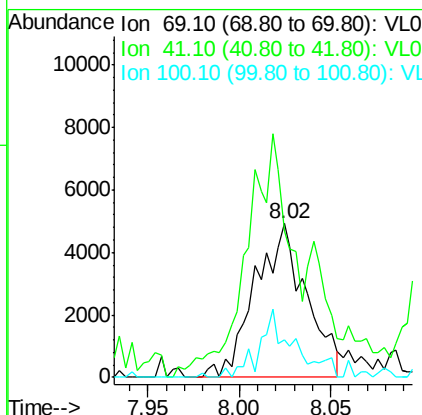
100 30.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/14/2021

Supervised By :Mahesh Dadoda 04/14/2021



#44

2,2,4-Trimethylpentane

Concen: 0.111 ppbv

RT: 7.86 min Scan# 1579

Delta R.T. -0.01 min

Lab File: VL036814.D

Acq: 13 Apr 2021 23:18

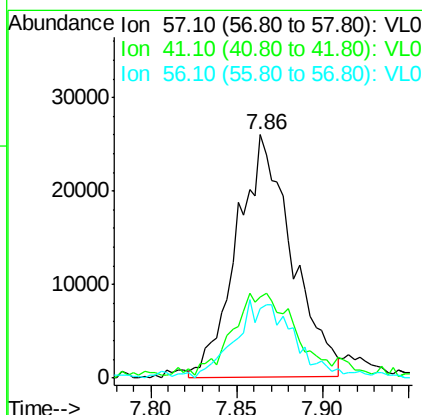
Tgt Ion: 57 Resp: 57497

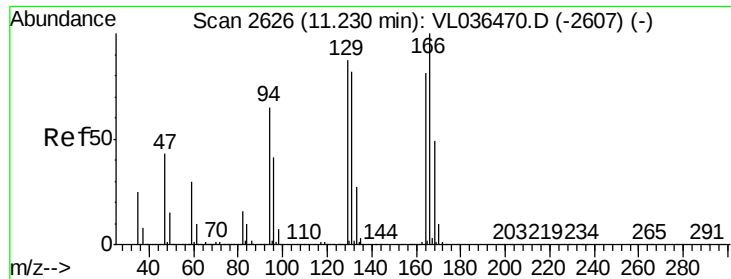
Ion Ratio Lower Upper

57 100

41 41.5 28.8 43.2

56 37.4 26.1 39.1





#52

Tetrachloroethene

Concen: 0.119 ppbv m

RT: 11.21

Delta R.T. MSVOA_L

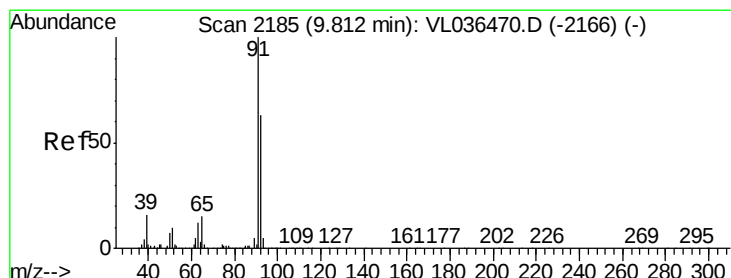
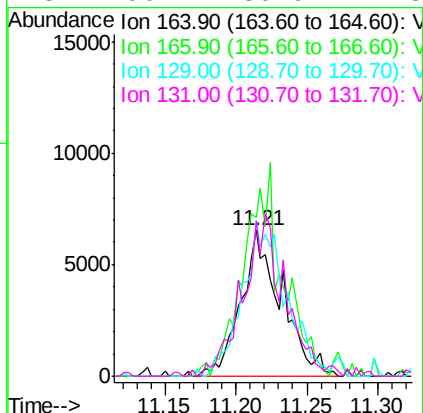
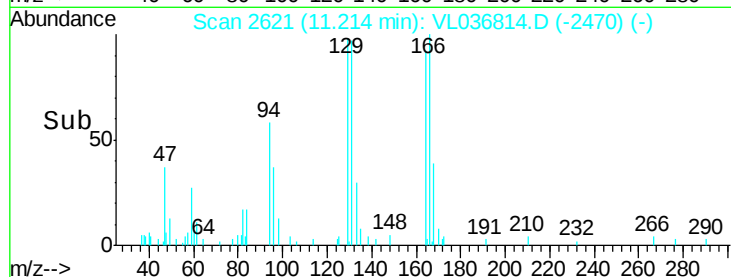
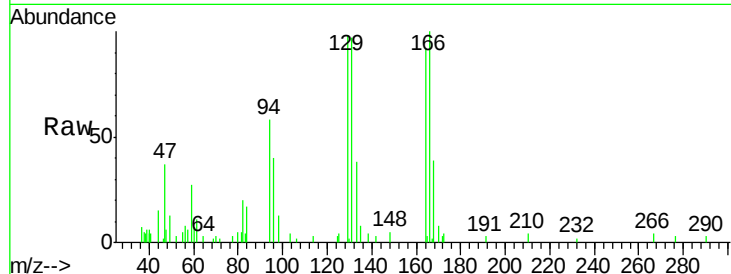
Lab File: ClientSampleId :

Acq: 13 Apr 2021 23:18

Tot Ion: 1
Ion Ratio
164 100
166 109.
129 107.
131 106.1 80.9 121.3

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



#53

Toluene

Concen: 0.096 ppbv

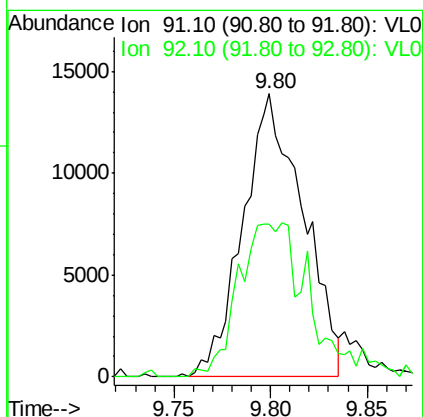
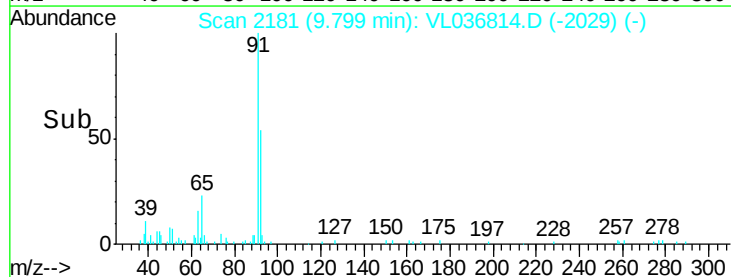
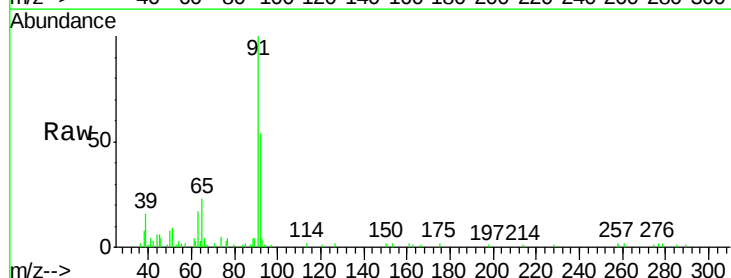
RT: 9.80 min Scan# 2181

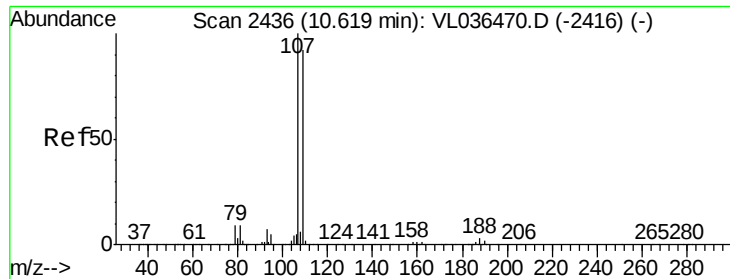
Delta R.T. -0.01 min

Lab File: VL036814.D

Acq: 13 Apr 2021 23:18

Tgt Ion: 91 Resp: 30199
Ion Ratio Lower Upper
91 100
92 65.4 48.8 73.2



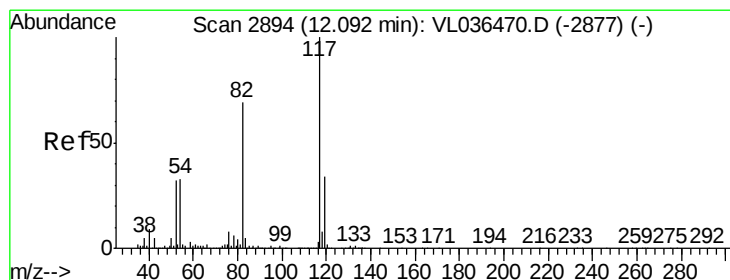
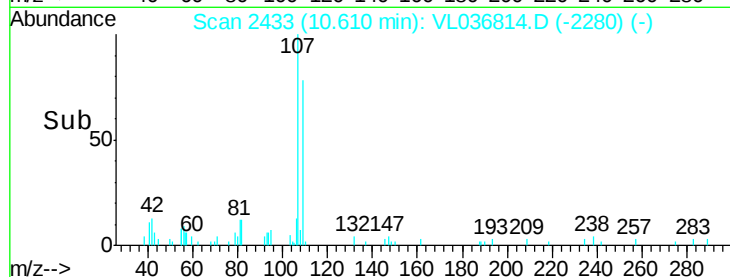
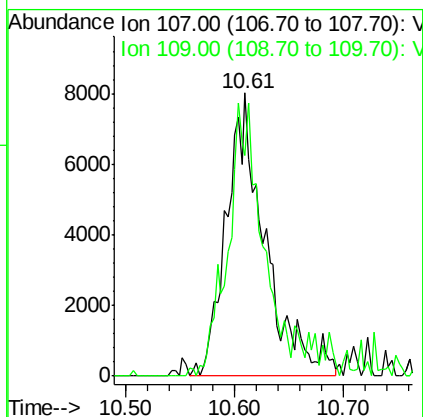
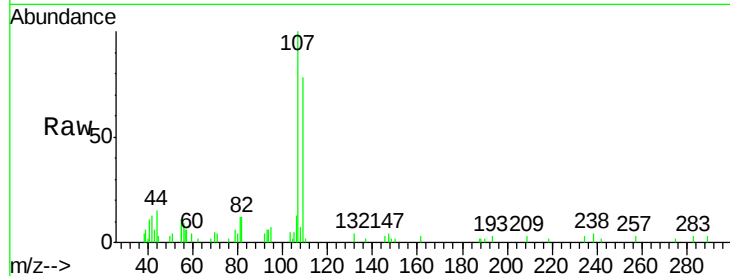


#54
 1,2-Dibromoethane
 Concen: 0.116 ppbv m
 RT: 10.61
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 13 Apr 2021 23:18

Tot Ion:1
 Ion Rati
 107 100
 109 78.

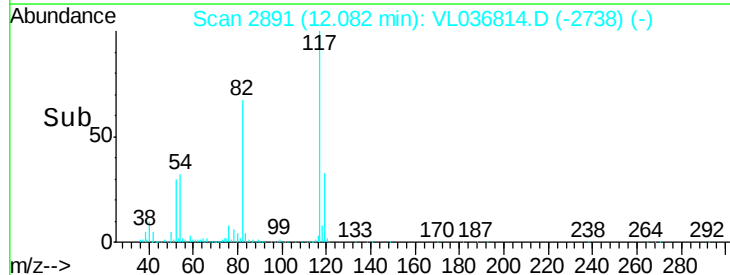
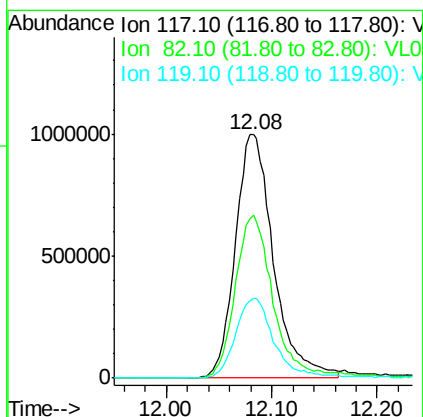
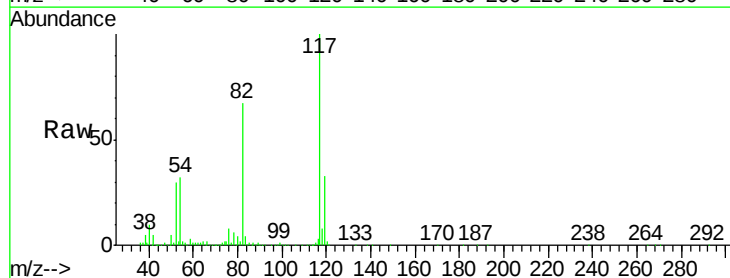
Manual Integrations
 APPROVED

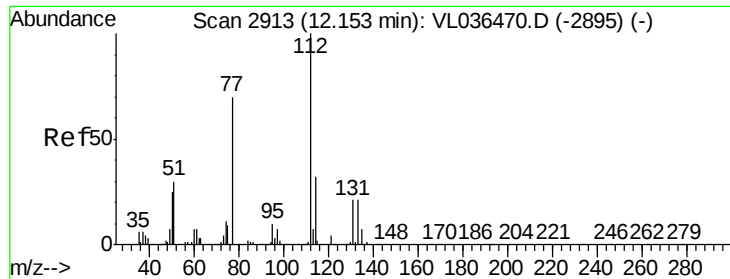
Reviewed By :Semsettin Yesilyurt 04/14/2021
 Supervised By :Mahesh Dadoda 04/14/2021



#55
 Chlorobenzene-d5
 Concen: 10.000 ppbv
 RT: 12.08 min Scan# 2891
 Delta R.T. -0.01 min
 Lab File: VL036814.D
 Acq: 13 Apr 2021 23:18

Tgt Ion:117 Resp: 2513323
 Ion Ratio Lower Upper
 117 100
 82 68.0 57.4 86.0
 119 33.6 47.4 71.0#



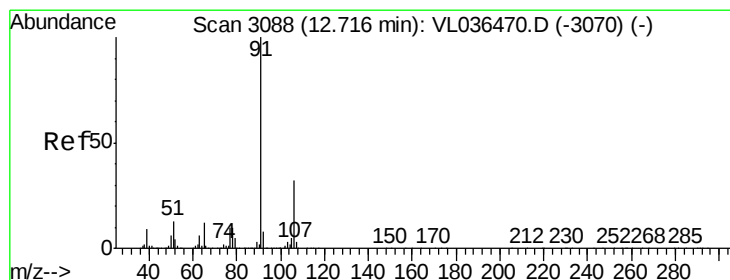
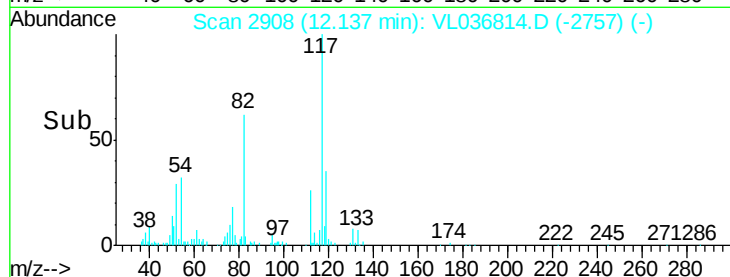
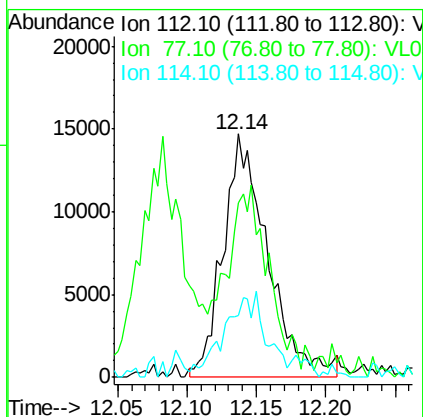
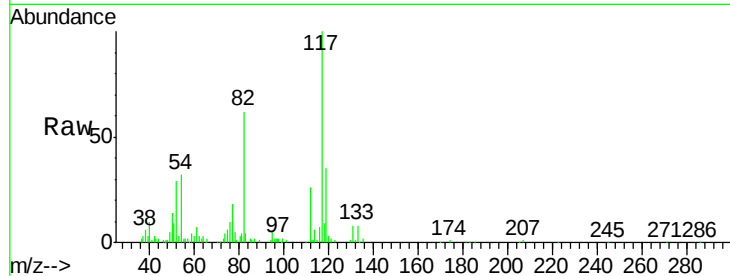


#57
Chlorobenzene
Concen: 0.155 ppbv m
RT: 12.14 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 13 Apr 2021 23:18

Tot Ion: 1
Ion Ratio
112 100
77 71.
114 25.

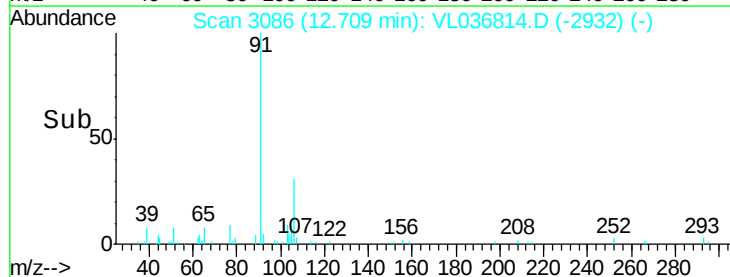
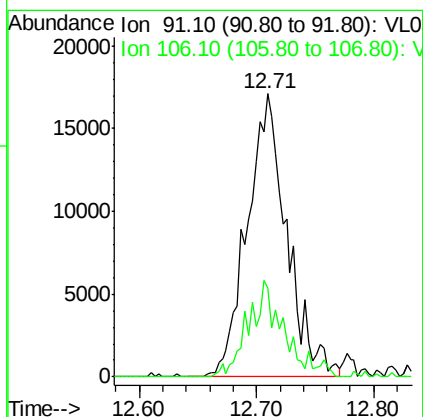
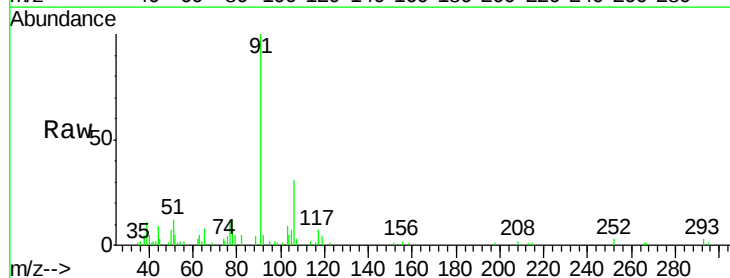
Manual Integrations
APPROVED

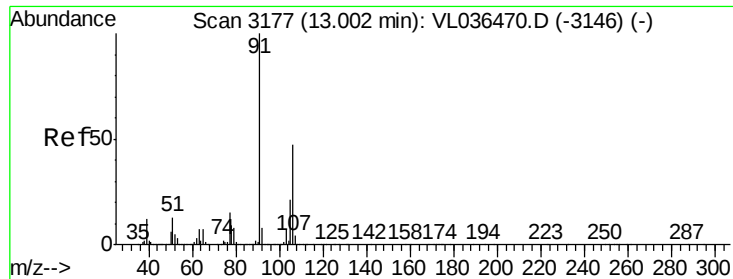
Reviewed By : Semsettin Yesilyurt 04/14/2021
Supervised By : Mahesh Dadoda 04/14/2021



#58
Ethyl Benzene
Concen: 0.109 ppbv m
RT: 12.71 min Scan# 3086
Delta R.T.: -0.01 min
Lab File: VL036814.D
Acq: 13 Apr 2021 23:18

Tgt Ion: 91 Resp: 39933
Ion Ratio Lower Upper
91 100
106 31.2 25.3 37.9



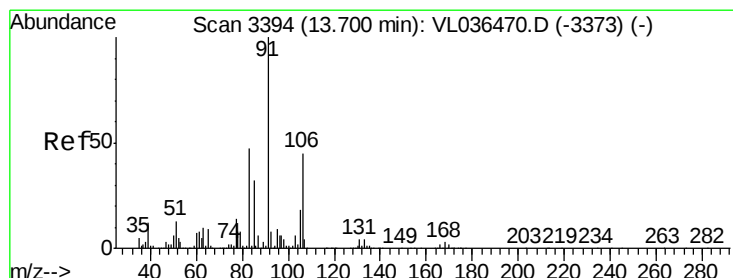
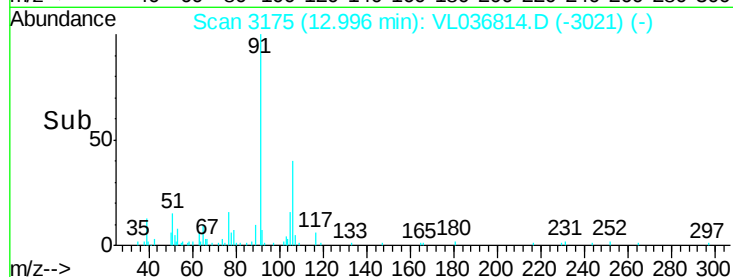
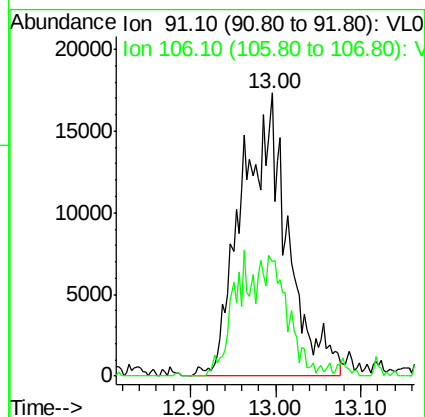
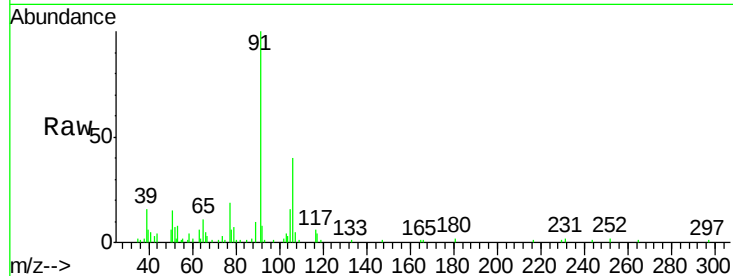


#59
m/p-Xylene
Concen: 0.203 ppbv m
RT: 13.00 min
Delta R.T. MSVOA_L
Lab File: ClientSampled :
Acq: 13 Apr 2021 23:18

Tot Ion:
Ion Ratio
91 100
106 0.

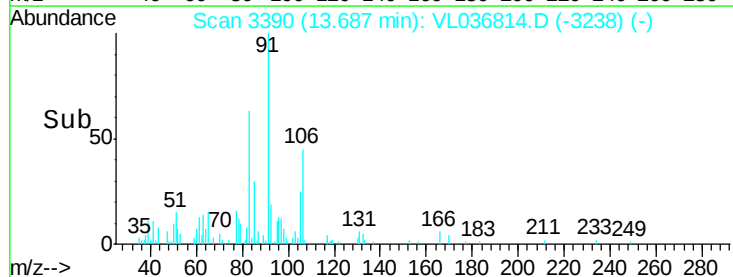
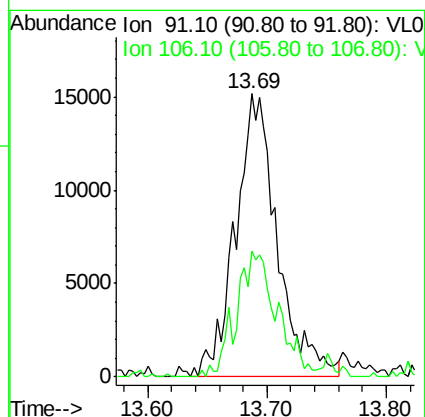
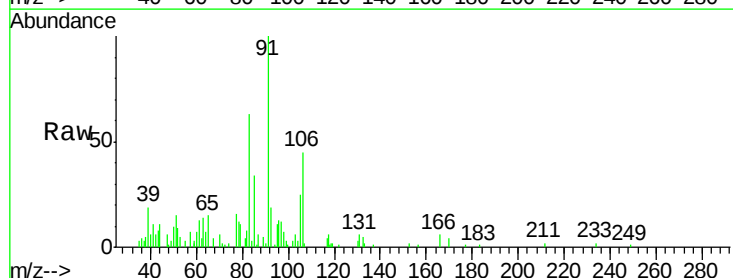
Manual Integrations
APPROVED

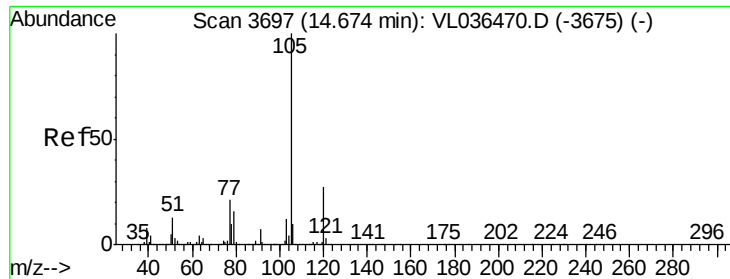
Reviewed By :Semsettin Yesilyurt 04/14/2021
Supervised By :Mahesh Dadoda 04/14/2021



#60
o-Xylene
Concen: 0.120 ppbv m
RT: 13.69 min Scan# 3390
Delta R.T. -0.01 min
Lab File: VL036814.D
Acq: 13 Apr 2021 23:18

Tgt Ion: 91 Resp: 37100
Ion Ratio Lower Upper
91 100
106 45.8 22.3 66.9





#62

Isopropylbenzene

Concen: 0.131 ppbv m

RT: 14.66

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 13 Apr 2021 23:18

Tot Ion:1

Ion Ratio

105 100

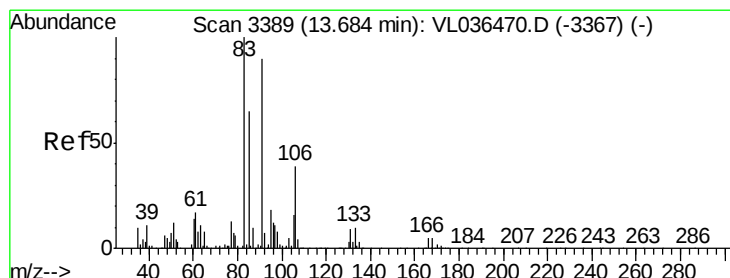
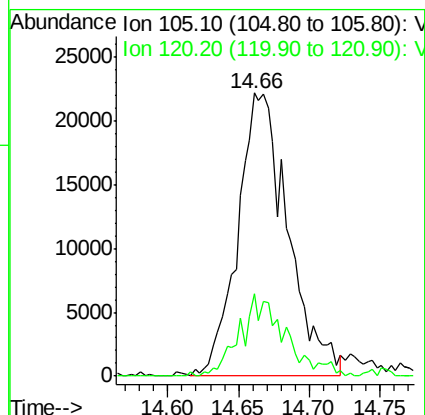
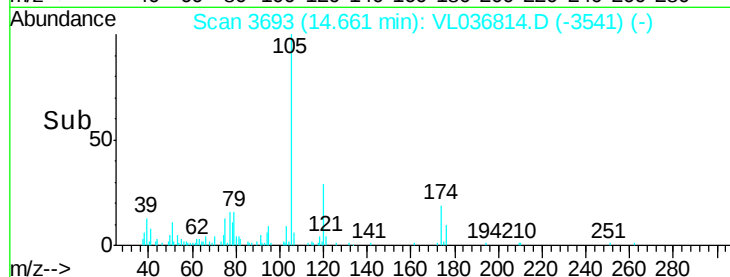
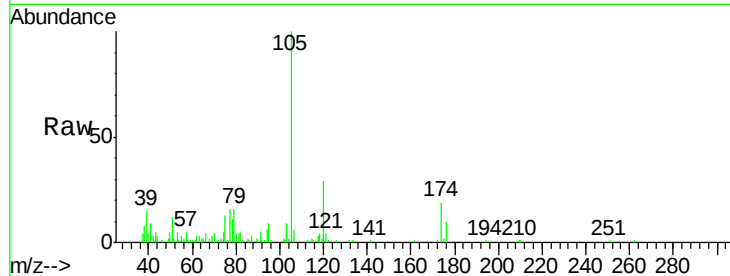
120 26.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/14/2021

Supervised By :Mahesh Dadoda 04/14/2021



#63

1,1,2,2-Tetrachloroethane

Concen: 0.137 ppbv m

RT: 13.68 min Scan# 3387

Delta R.T. -0.01 min

Lab File: VL036814.D

Acq: 13 Apr 2021 23:18

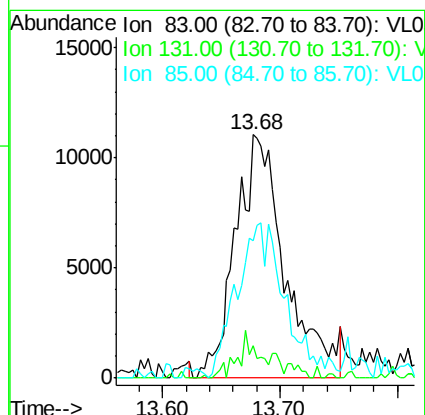
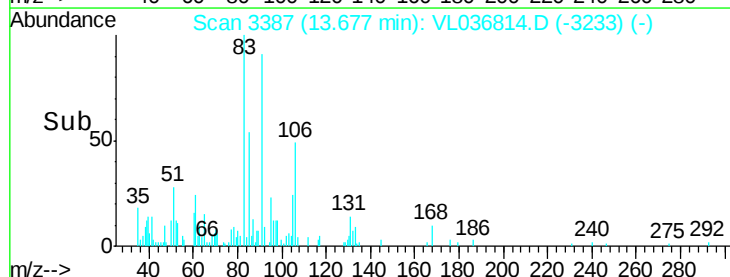
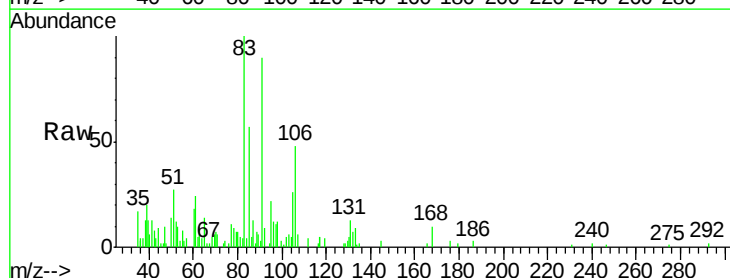
Tgt Ion: 83 Resp: 32260

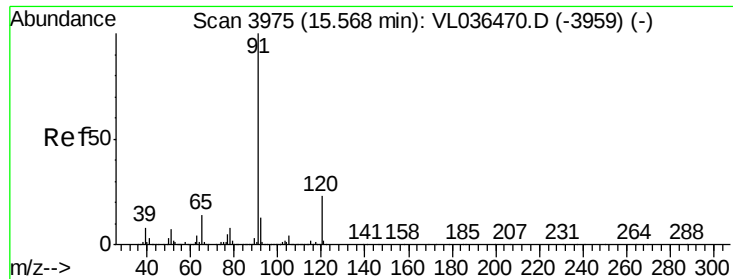
Ion Ratio Lower Upper

83 100

131 11.1 4.7 14.0

85 0.0 33.1 99.3#





#64

n-propylbenzene

Concen: 0.118 ppbv m

RT: 15.56

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 13 Apr 2021 23:18

Tot Ion:1

Ion Rati

120 100

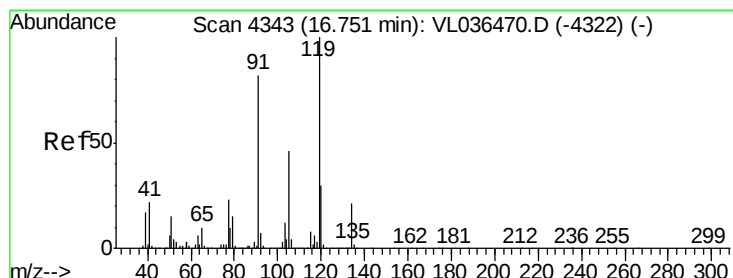
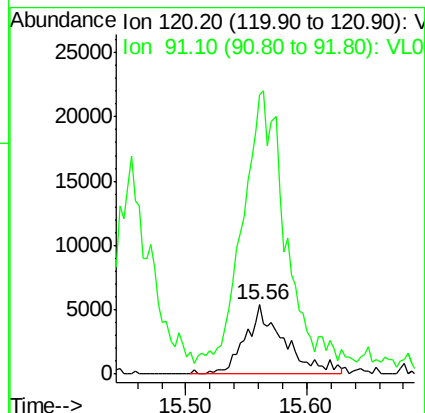
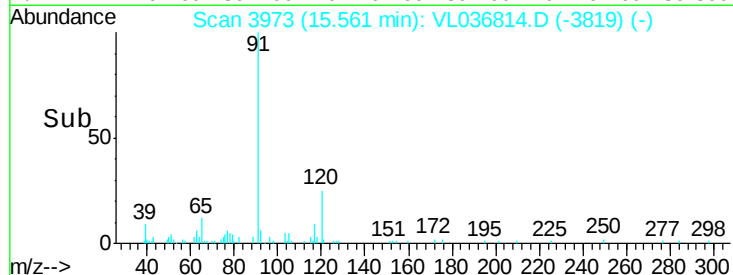
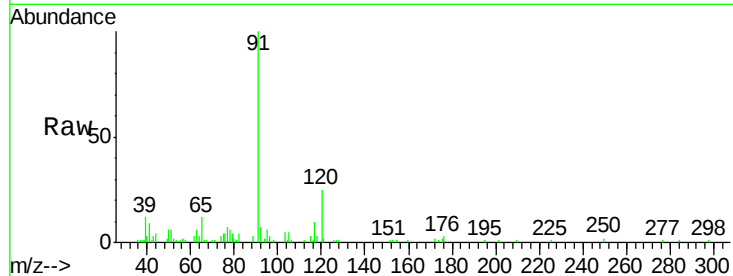
91 503.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/14/2021

Supervised By :Mahesh Dadoda 04/14/2021



#65

tert-Butylbenzene

Concen: 0.117 ppbv m

RT: 16.75 min Scan# 4343

Delta R.T. 0.00 min

Lab File: VL036814.D

Acq: 13 Apr 2021 23:18

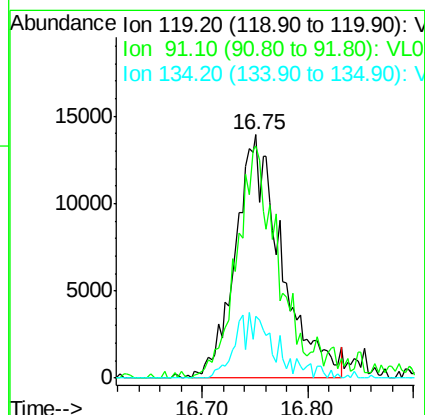
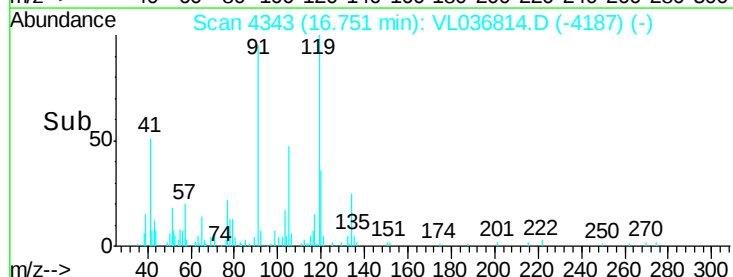
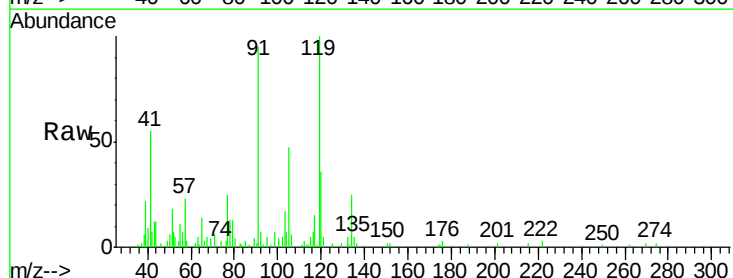
Tgt Ion:119 Resp: 42288

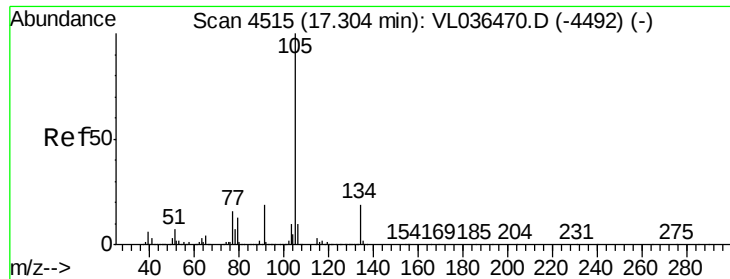
Ion Ratio Lower Upper

119 100

91 86.4 67.5 101.3

134 22.8 15.8 23.8



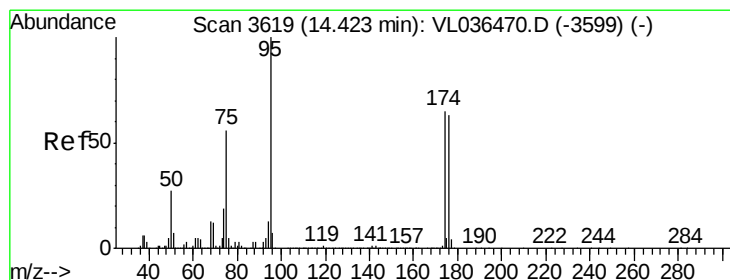
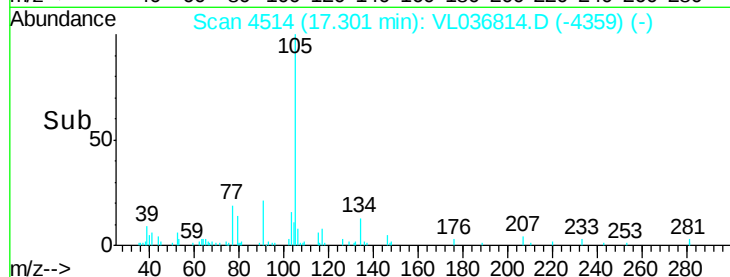
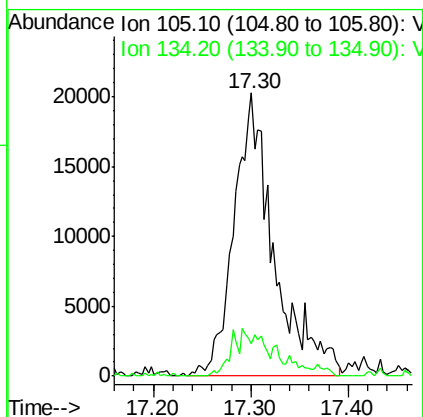
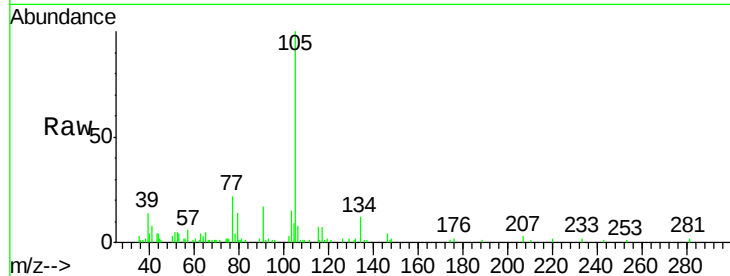


#67
 sec-Butylbenzene
 Concen: 0.114 ppbv m
 RT: 17.30
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampled:
 Acq: 13 Apr 2021 23:18

Tot Ion: 1
 Ion Ratio
 105 100
 134 18.

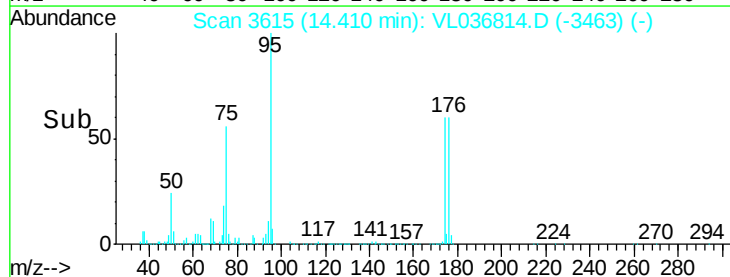
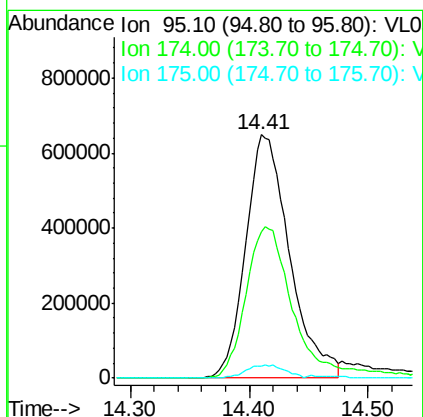
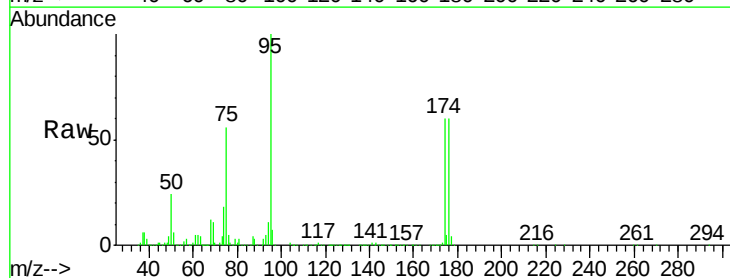
Manual Integrations
 APPROVED

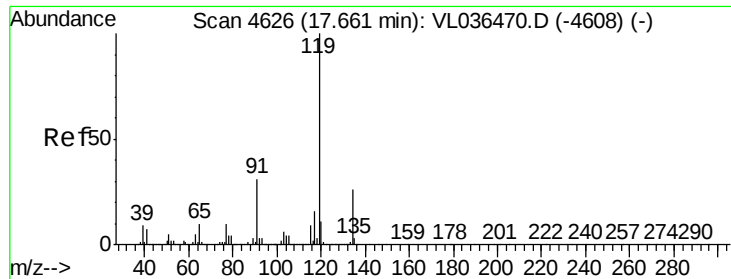
Reviewed By : Semsettin Yesilyurt 04/14/2021
 Supervised By : Mahesh Dadoda 04/14/2021



#68
 1-Bromo-4-Fluorobenzene
 Concen: 8.292 ppbv
 RT: 14.41 min Scan# 3615
 Delta R.T. -0.01 min
 Lab File: VL036814.D
 Acq: 13 Apr 2021 23:18

Tgt Ion: 95 Resp: 1661040
 Ion Ratio Lower Upper
 95 100
 174 70.2 51.0 76.6
 175 5.5 3.9 5.9





#69

p-Isopropyltoluene

Concen: 0.121 ppbv m

RT: 17.65

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 13 Apr 2021 23:18

Tot Ion:1

Ion Ratio

119 100

134 0.

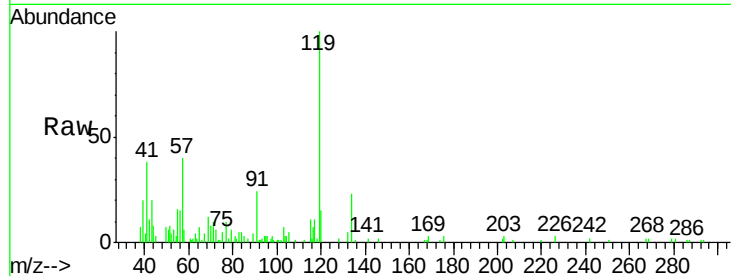
91 33.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/14/2021

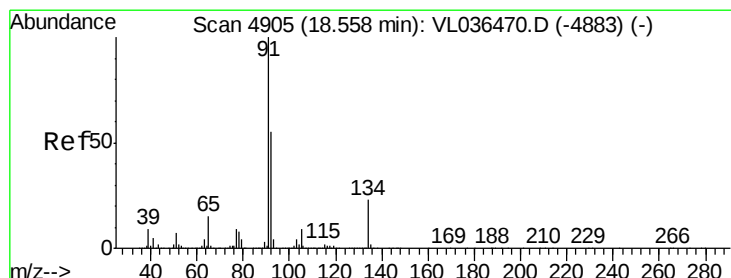
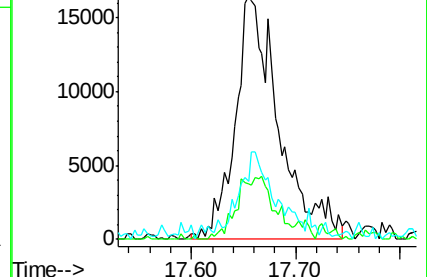
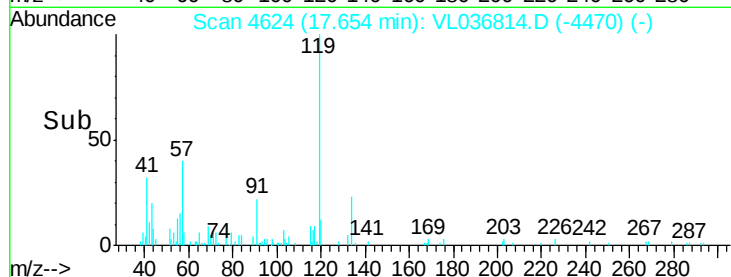
Supervised By :Mahesh Dadoda 04/14/2021



Abundance Ion 119.10 (118.80 to 119.80): V

Ion 134.20 (133.90 to 134.90): V

Ion 91.10 (90.80 to 91.80): V



#70

n-Butylbenzene

Concen: 0.109 ppbv m

RT: 18.56 min Scan# 4907

Delta R.T. 0.01 min

Lab File: VL036814.D

Acq: 13 Apr 2021 23:18

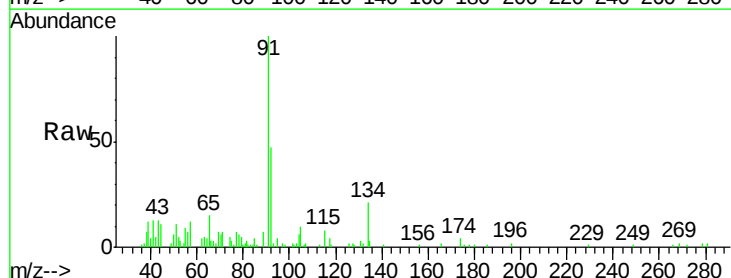
Tgt Ion: 91 Resp: 44714

Ion Ratio Lower Upper

91 100

92 0.0 43.8 65.8#

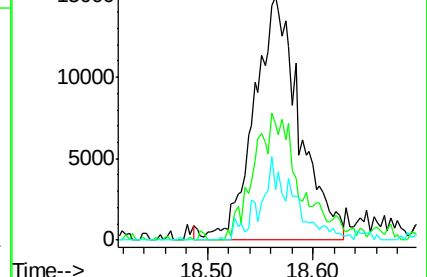
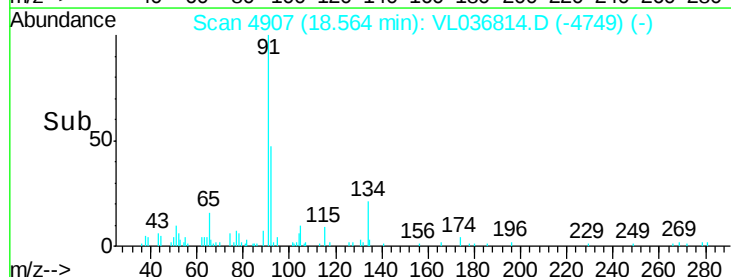
134 0.0 18.0 27.0#

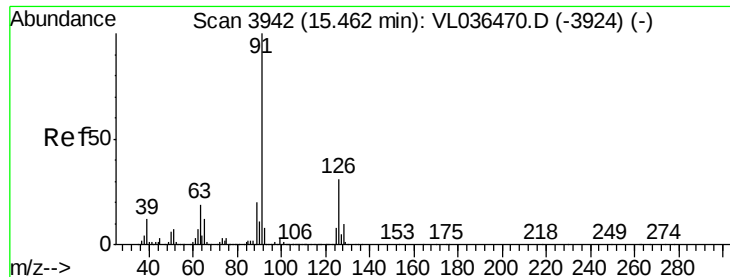


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

Ion 134.20 (133.90 to 134.90): V



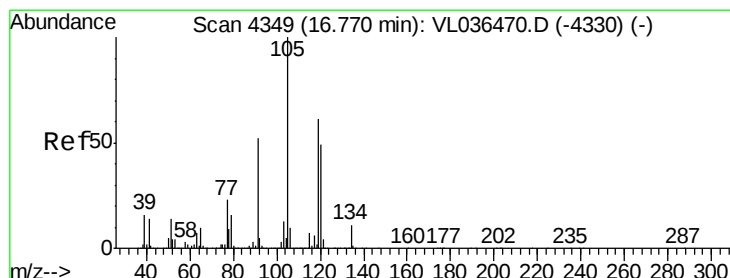
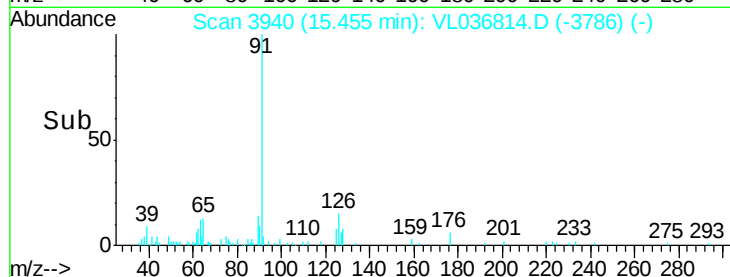
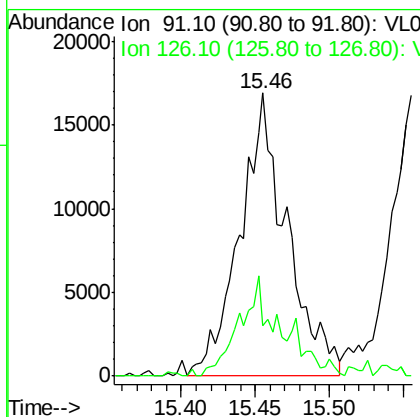
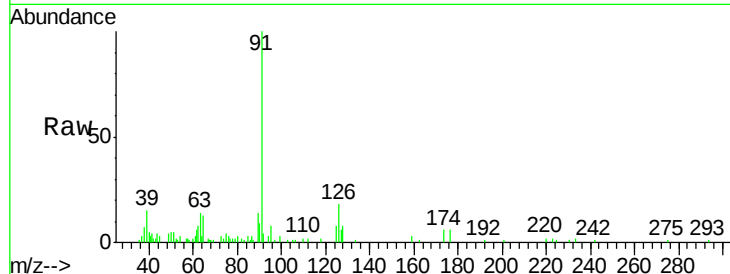


#71
2-Chlorotoluene
Concen: 0.120 ppbv m
RT: 15.46
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampled:
Acq: 13 Apr 2021 23:18

Tot Ion:
Ion Ratio
91 100
126 33.

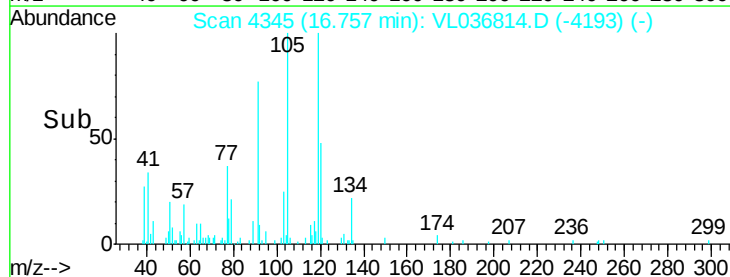
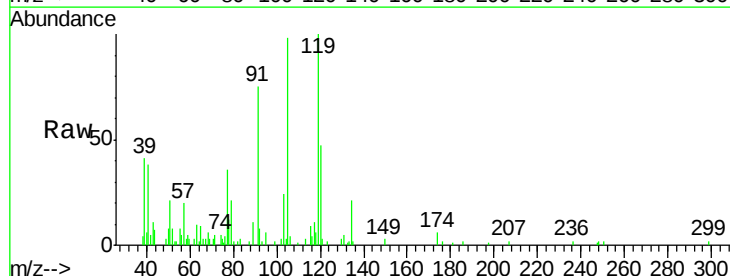
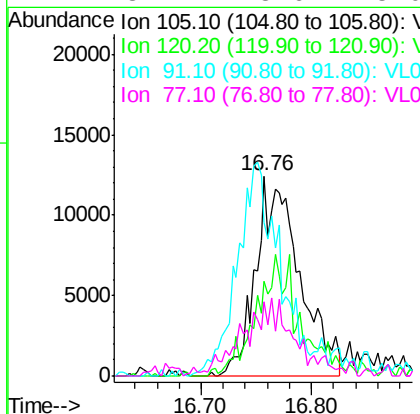
Manual Integrations
APPROVED

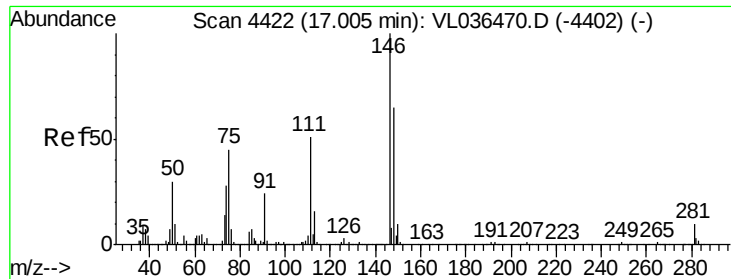
Reviewed By :Semsettin Yesilyurt 04/14/2021
Supervised By :Mahesh Dadoda 04/14/2021



#74
1,2,4-Trimethylbenzene
Concen: 0.101 ppbv m
RT: 16.76 min Scan# 4345
Delta R.T. -0.01 min
Lab File: VL036814.D
Acq: 13 Apr 2021 23:18

Tgt Ion:105 Resp: 34030
Ion Ratio Lower Upper
105 100
120 47.6 39.2 58.8
91 77.0 42.6 64.0#
77 37.2 18.6 28.0#



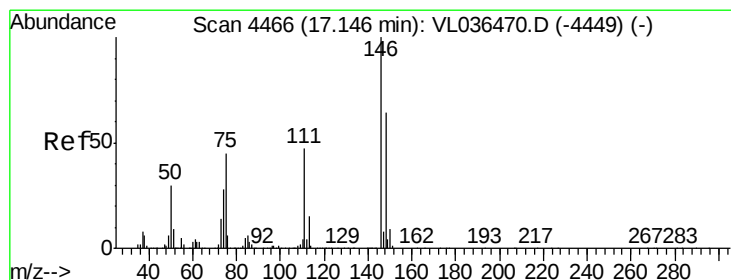
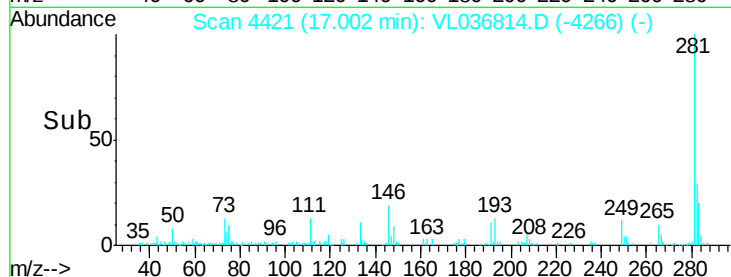
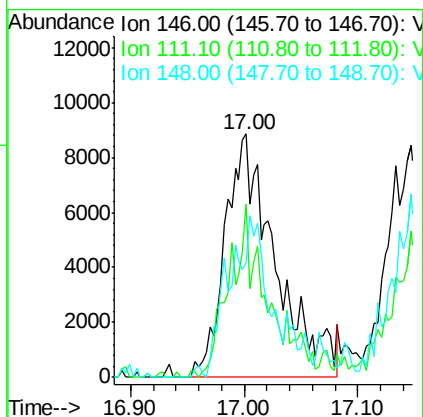
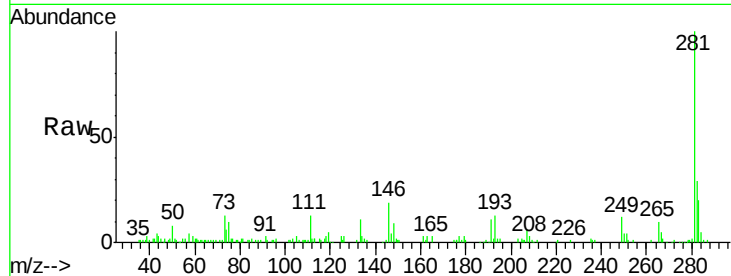


#75
 1,3-Dichlorobenzene
 Concen: 0.143 ppbv m
 RT: 17.00 min
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId:
 Acq: 13 Apr 2021 23:18

Tot Ion:1
 Ion Ratio
 146 100
 111 58.
 148 58.

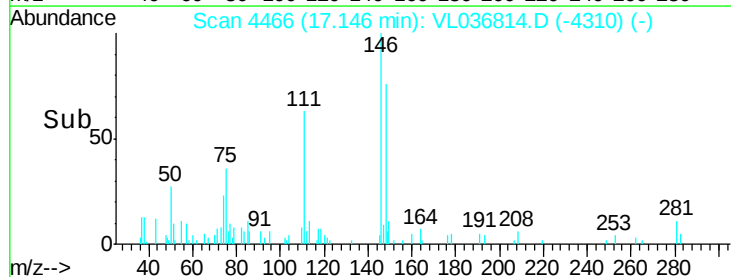
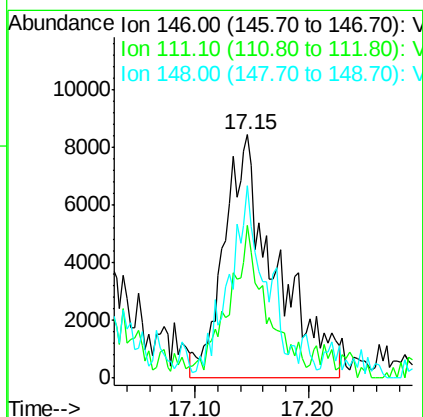
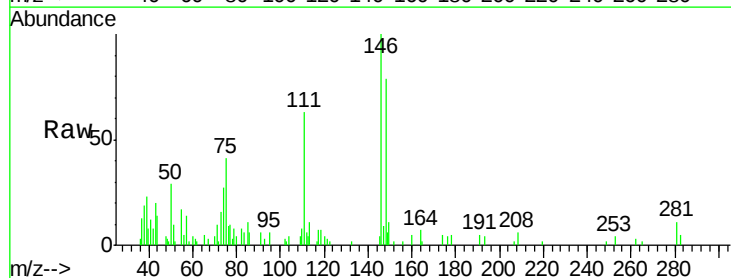
Manual Integrations
 APPROVED

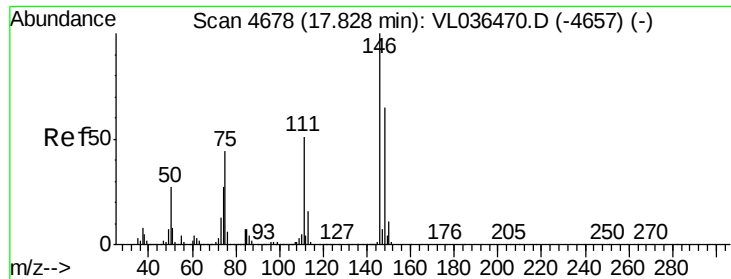
Reviewed By :Semsettin Yesilyurt 04/14/2021
 Supervised By :Mahesh Dadoda 04/14/2021



#76
 1,4-Dichlorobenzene
 Concen: 0.141 ppbv m
 RT: 17.15 min Scan# 4466
 Delta R.T. 0.00 min
 Lab File: VL036814.D
 Acq: 13 Apr 2021 23:18

Tgt Ion:146 Resp: 26536
 Ion Ratio Lower Upper
 146 100
 111 0.0 24.3 72.8#
 148 0.0 33.0 98.9#





#77

1,2-Dichlorobenzene

Concen: 0.151 ppbv m

RT: 17.82

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 13 Apr 2021 23:18

Tot Ion:1

Ion Rati

146 100

111 52.

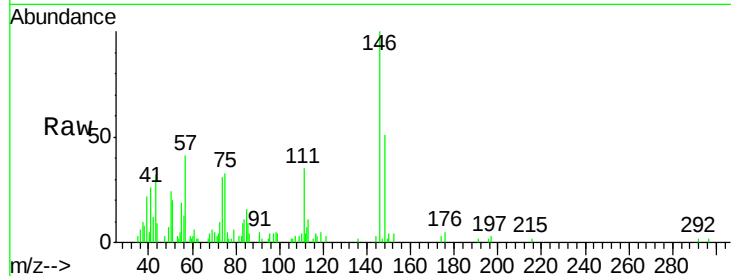
148 68.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/14/2021

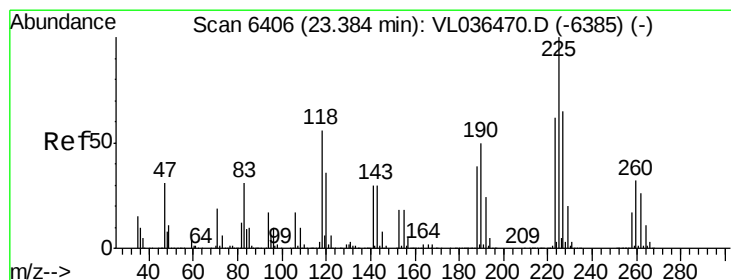
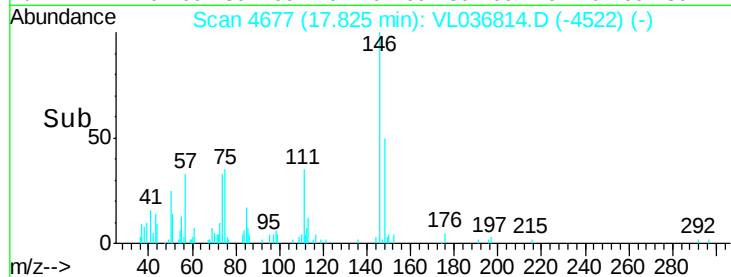
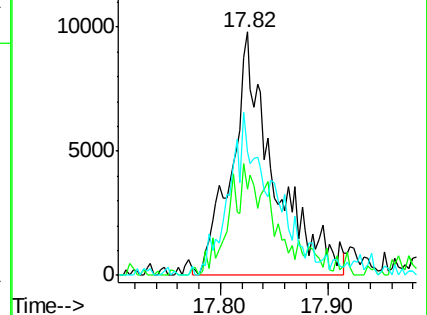
Supervised By :Mahesh Dadoda 04/14/2021



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#78

Hexachloro-1,3-Butadiene

Concen: 0.150 ppbv m

RT: 23.39 min Scan# 6407

Delta R.T. 0.00 min

Lab File: VL036814.D

Acq: 13 Apr 2021 23:18

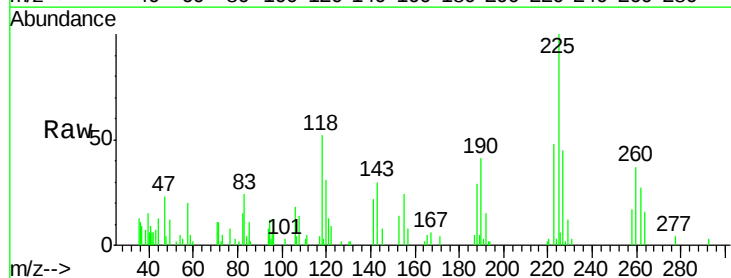
Tgt Ion:225 Resp: 24004

Ion Ratio Lower Upper

225 100

223 0.0 50.6 75.8#

227 0.0 52.2 78.2#



Abundance Ion 224.90 (224.60 to 225.60): V

Ion 222.90 (222.60 to 223.60): V

Ion 226.90 (226.60 to 227.60): V

