

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL041321\
 Data File : VL036813.D
 Acq On : 13 Apr 2021 21:39
 Operator : SY/AP
 Sample : M2018-05
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA L
 ClientSampleId :
 SG5

Manual Integrations
 APPROVED

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

Quant Time: Apr 14 09:55:44 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	1311192	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	3374424	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	2681182	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.42	95	1931943	9.04	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	90.40%

Target Compounds

	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	37923m	0.177	ppbv	
3) Chlorodifluoromethane	2.99	51	60316	0.246	ppbv #	86
4) Chloromethane	3.14	50	17998m	0.208	ppbv	
9) Propene	3.02	41	97672	1.251	ppbv #	73
10) Heptane	8.12	43	1514288	7.611	ppbv	99
11) Trichlorofluoromethane	3.95	101	44523	0.204	ppbv	93
13) Ethanol	3.62	45	260143m	27.972	ppbv	
15) Acetone	3.84	43	3068821	23.780	ppbv	99
17) tert-Butyl alcohol	4.32	59	190195m	1.693	ppbv	
19) Isopropyl Alcohol	3.98	45	567279	7.991	ppbv #	1
20) Methylene Chloride	4.34	84	2231037	36.924	ppbv	94
26) Hexane	5.68	57	1664261	11.689	ppbv #	47
27) Carbon Disulfide	4.55	76	62542	0.446	ppbv #	84
30) Cyclohexane	7.13	84	211635	1.833	ppbv #	83
34) 2-Butanone	5.24	43	151437	0.919	ppbv #	90
35) Carbon Tetrachloride	7.02	117	11074m	0.043	ppbv	
36) Benzene	6.89	78	76658m	0.246	ppbv	
52) Tetrachloroethene	11.22	164	19742m	0.172	ppbv	
53) Toluene	9.81	91	955447	2.883	ppbv	99
58) Ethyl Benzene	12.71	91	233729	0.599	ppbv	94
59) m/p-Xylene	12.97	91	602183	1.770	ppbv	92
60) o-Xylene	13.69	91	185880	0.565	ppbv	99
61) Styrene	13.53	104	342535	2.070	ppbv	98
62) Isopropylbenzene	14.67	105	7061351	15.939	ppbv	98
64) n-propylbenzene	15.57	120	20743m	0.192	ppbv	
72) 4-Ethyltoluene	15.84	105	102165m	0.283	ppbv	
73) 1,3,5-Trimethylbenzene	16.00	105	54512m	0.162	ppbv	
74) 1,2,4-Trimethylbenzene	16.77	105	167649	0.466	ppbv #	55

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

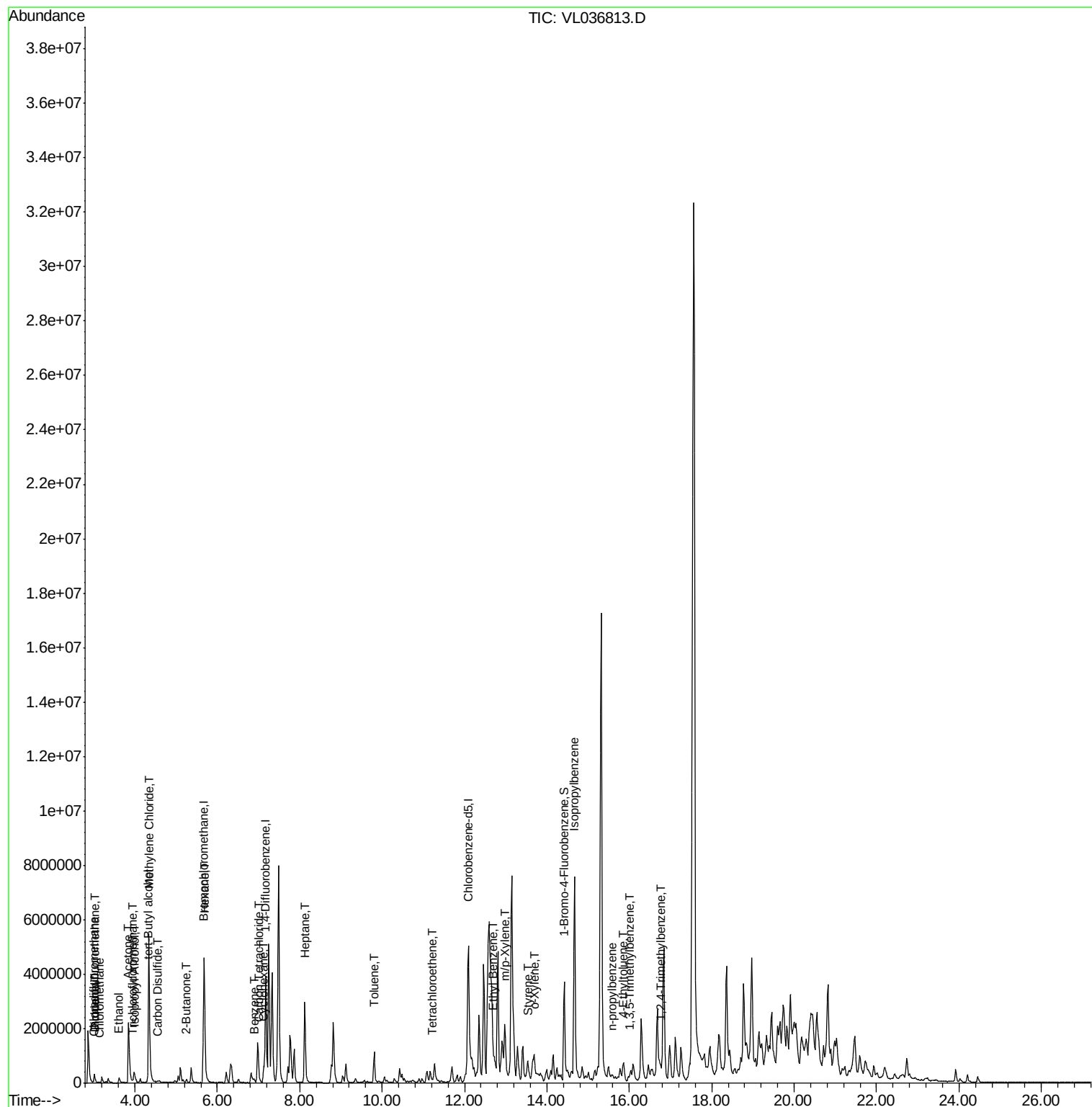
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL041321\
Data File : VL036813.D
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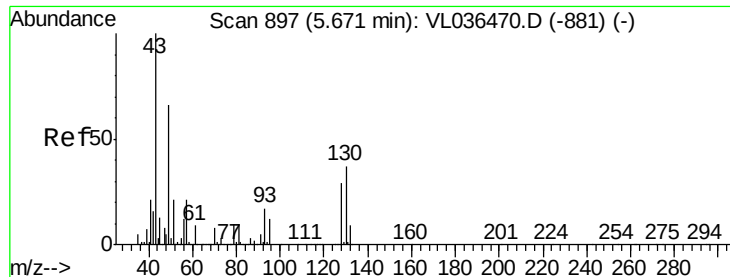
Instrument :
MSVOA_L
ClientSampleId :
SG5

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Quant Time: Apr 14 09:55:44 2021
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL032521
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:
QLast Update : Thu Mar 25 09:42:40 2021
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Supervised By :Mahesh Dadoda 04/14/2021





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 Instrument: MSVOA_L

Delta R.T. ClientSampleId:

Lab File: SG5

Acq: 13 Apr 2021 21:39

Tot Ion:

Ion Ratio

49 100

128 47.

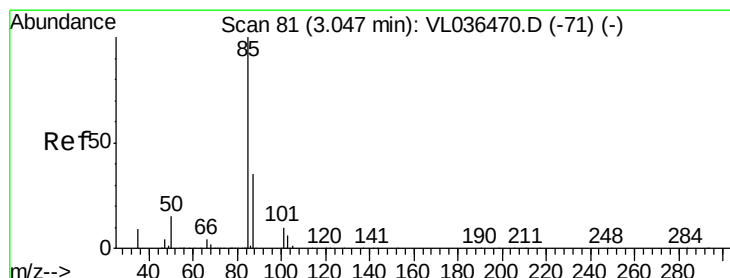
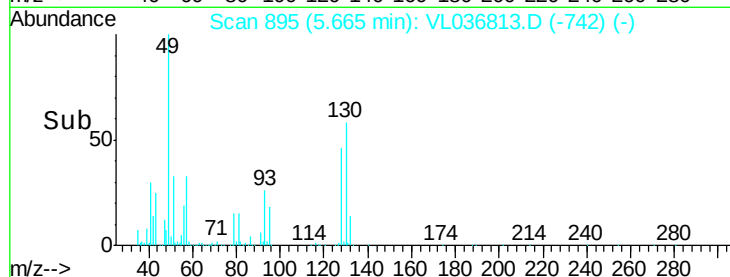
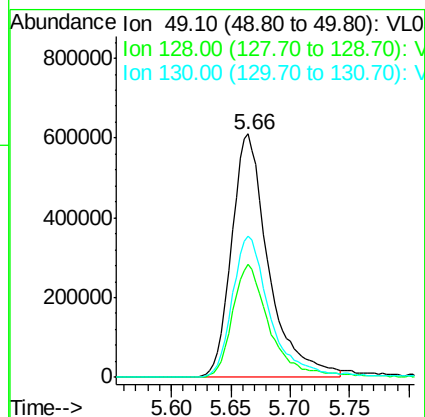
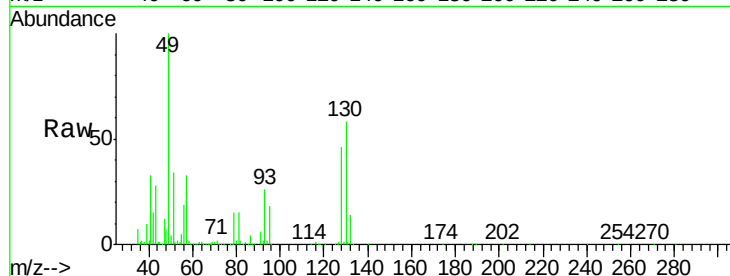
130 61.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/14/2021

Supervised By :Mahesh Dadoda 04/14/2021



#2

Dichlorodifluoromethane

Concen: 0.177 ppbv m

RT: 3.04 min Scan# 78

Delta R.T. -0.01 min

Lab File: VL036813.D

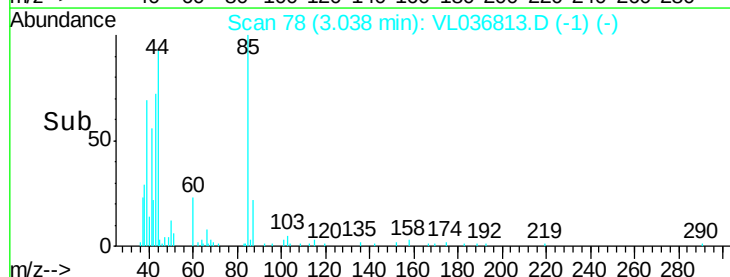
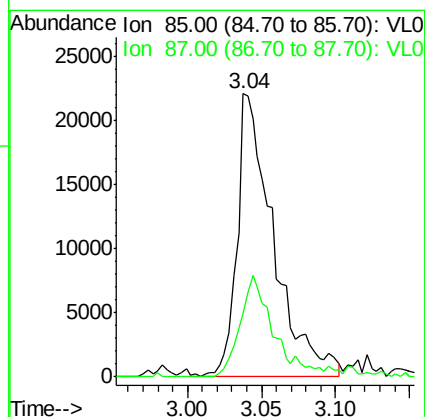
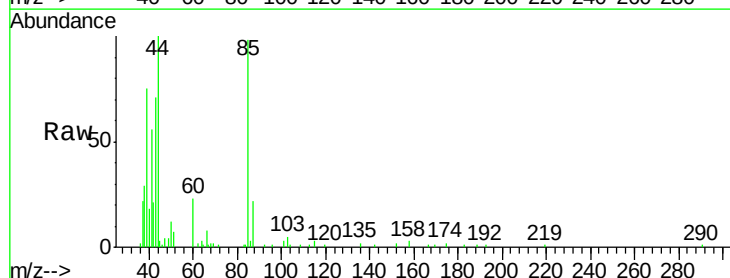
Acq: 13 Apr 2021 21:39

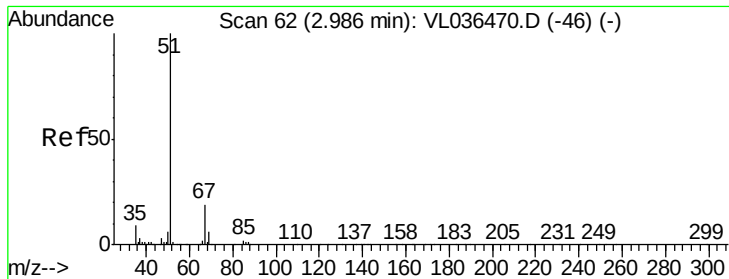
Tgt Ion: 85 Resp: 37923

Ion Ratio Lower Upper

85 100

87 22.4 27.8 41.8#





#3

Chlorodifluoromethane

Concen: 0.246 ppbv

RT: 2.99 Instrument :

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 13 Apr 2021 21:39

Tot Ion:

Ion Ratio

51 100

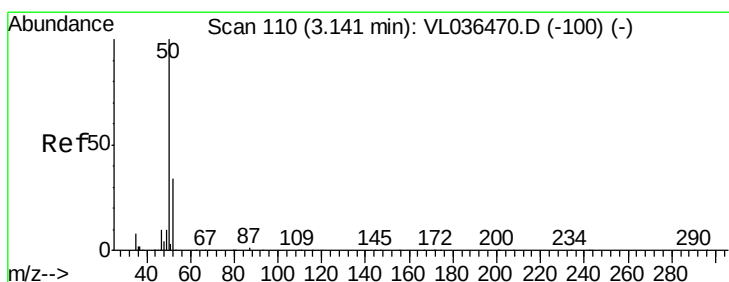
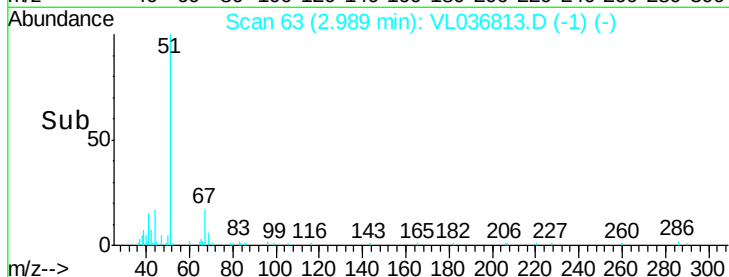
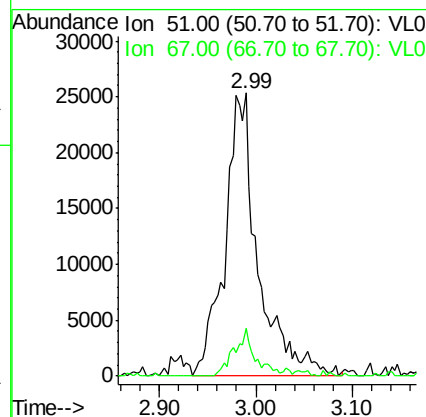
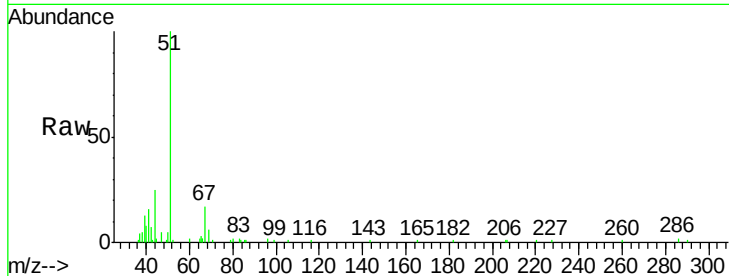
67 12.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/14/2021

Supervised By :Mahesh Dadoda 04/14/2021



#4

Chloromethane

Concen: 0.208 ppbv m

RT: 3.14 min Scan# 110

Delta R.T. -0.00 min

Lab File: VL036813.D

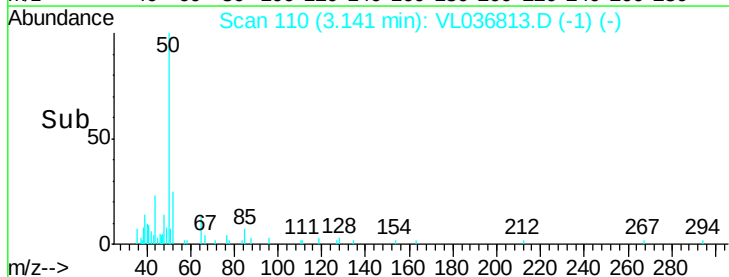
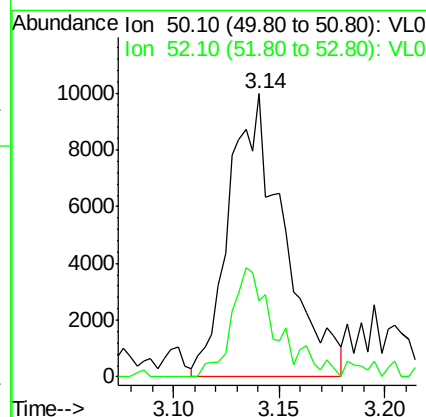
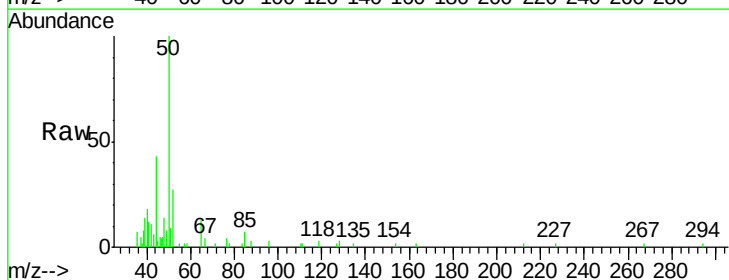
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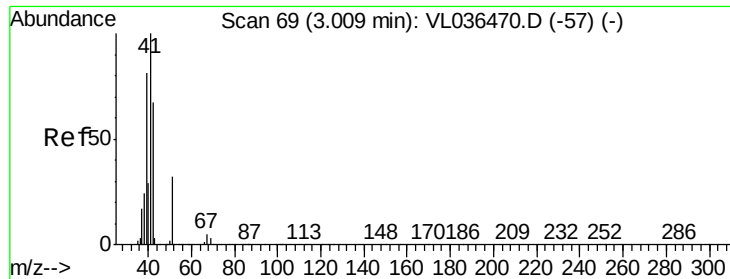
Tgt Ion: 50 Resp: 17998

Ion Ratio Lower Upper

50 100

52 26.7 27.0 40.6#



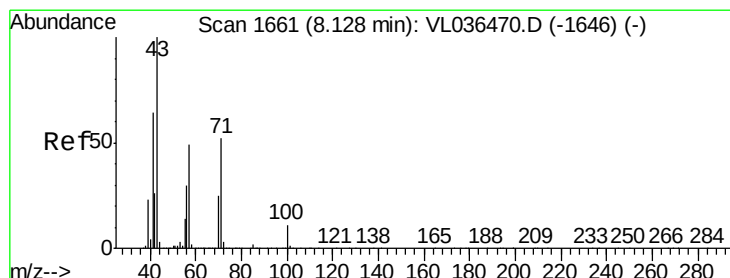
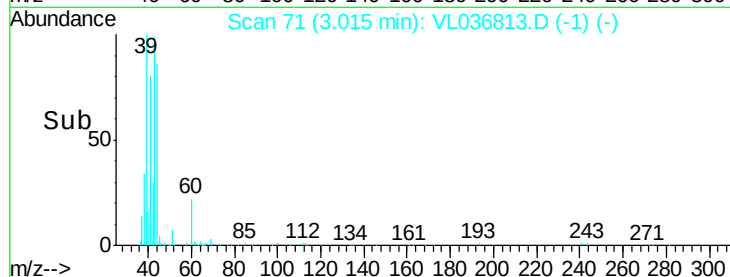
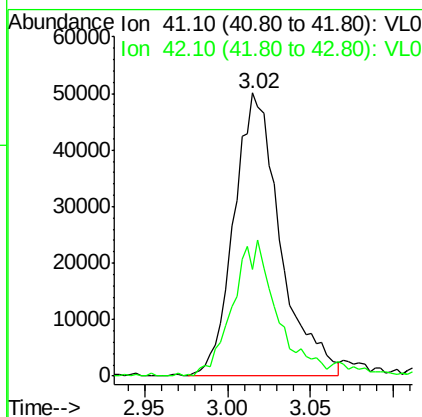
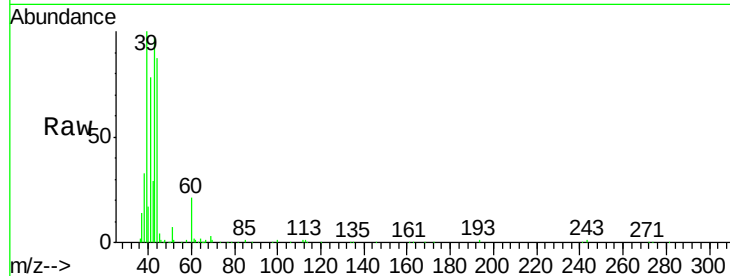


#9
 Propene
 Concen: 1.251 ppbv
 RT: 3.02
 Delta R.T.: MSVOA_L
 Lab File: ClientSampleId :
 Acq: 13 Apr 2021 21:39

Tot Ion:
 Ion Ratio
 41 100
 42 49.

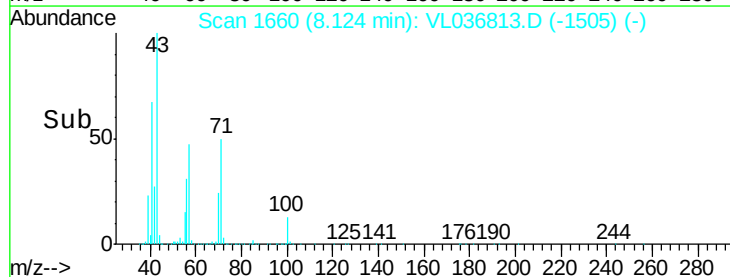
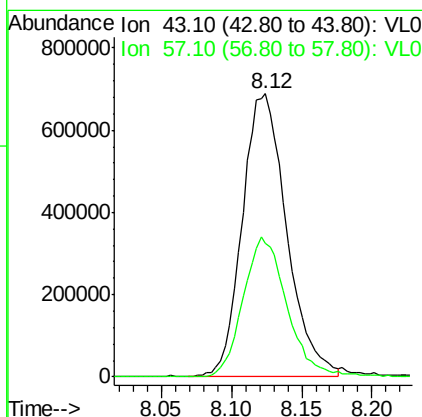
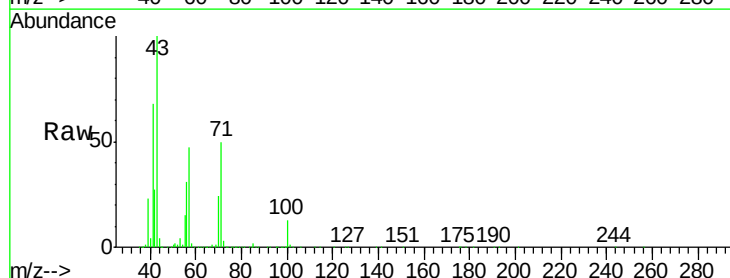
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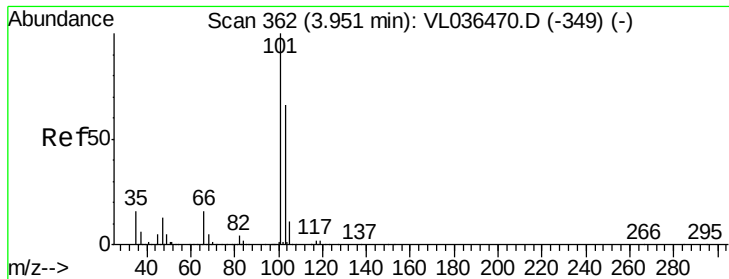
Reviewed By :Semsettin Yesilyurt 04/14/2021
 Supervised By :Mahesh Dadoda 04/14/2021



#10
 Heptane
 Concen: 7.611 ppbv
 RT: 8.12 min Scan# 1660
 Delta R.T.: -0.00 min
 Lab File: VL036813.D
 Acq: 13 Apr 2021 21:39

Tgt Ion: 43 Resp: 1514288
 Ion Ratio Lower Upper
 43 100
 57 49.2 39.0 58.6



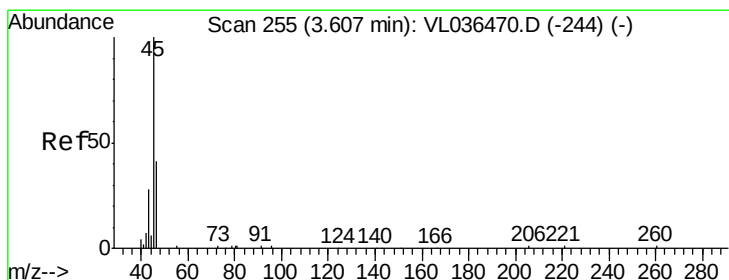
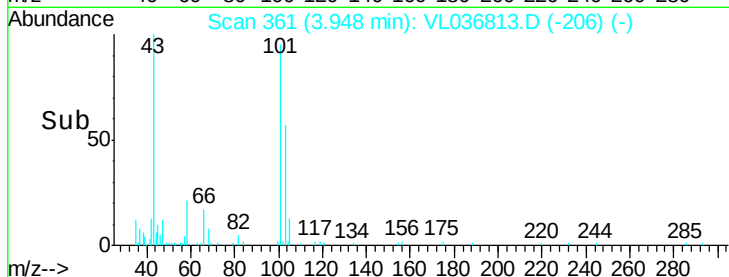
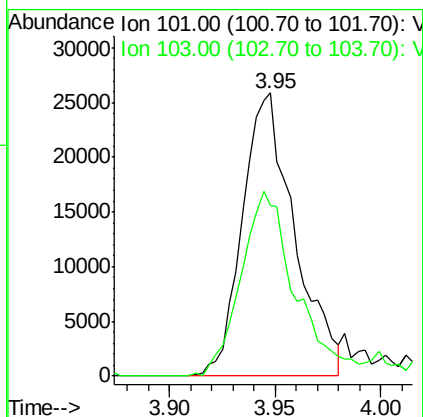
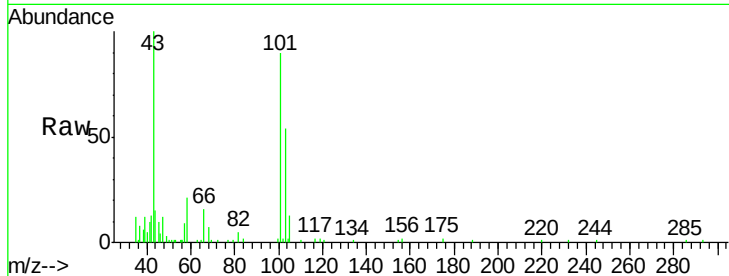


#11
 Trichlorofluoromethane
 Concen: 0.204 ppbv
 RT: 3.95
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 13 Apr 2021 21:39

Tot Ion:1
 Ion Rati
 101 100
 103 60.

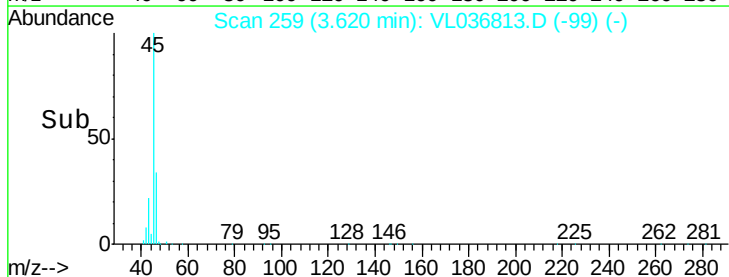
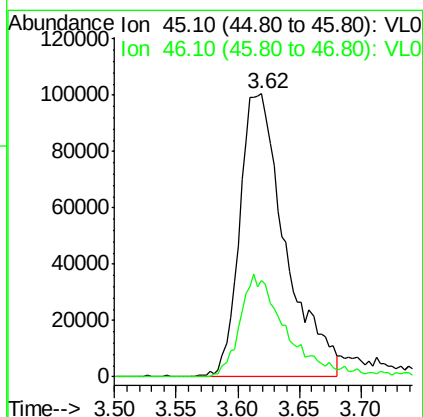
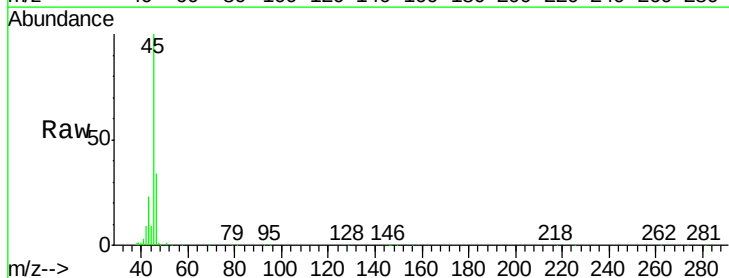
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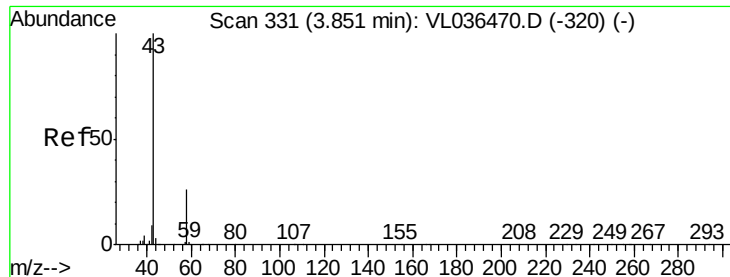
Reviewed By :Semsettin Yesilyurt 04/14/2021
 Supervised By :Mahesh Dadoda 04/14/2021



#13
 Ethanol
 Concen: 27.972 ppbv m
 RT: 3.62 min Scan# 259
 Delta R.T. 0.01 min
 Lab File: VL036813.D
 Acq: 13 Apr 2021 21:39

Tgt Ion: 45 Resp: 260143
 Ion Ratio Lower Upper
 45 100
 46 36.4 16.6 66.2





#15

Acetone

Concen: 23.780 ppbv

RT: 3.84

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 13 Apr 2021 21:39

Tot Ion:

Ion Ratio

43 100

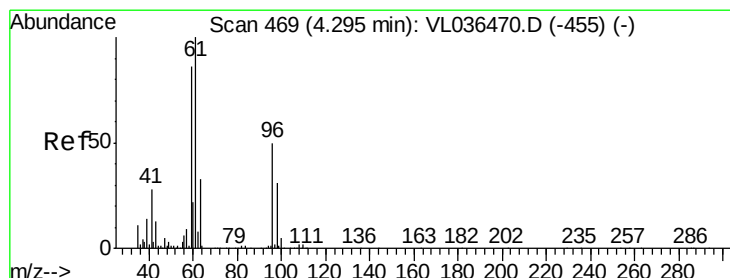
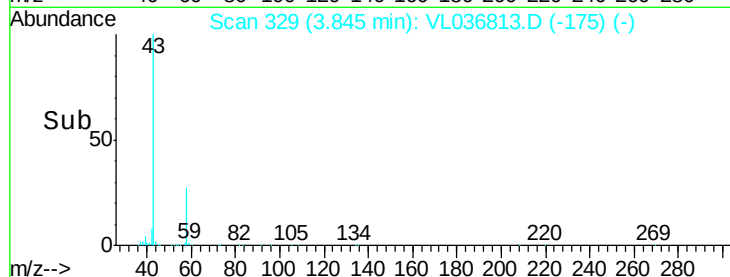
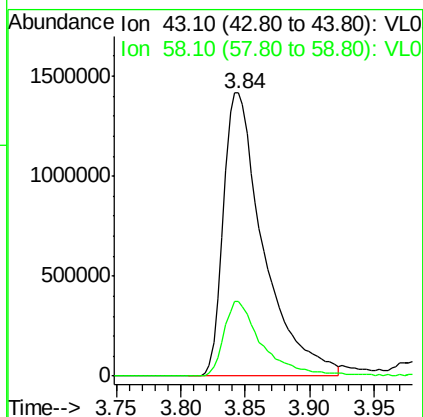
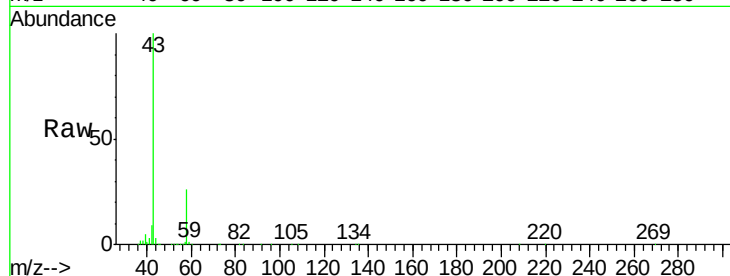
58 26.

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: 1.693 ppbv m

RT: 4.32 min Scan# 476

Delta R.T. 0.02 min

Lab File: VL036813.D

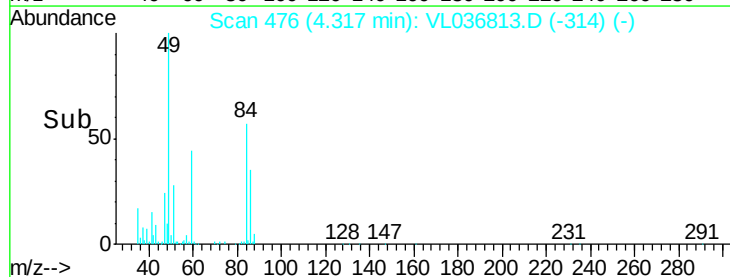
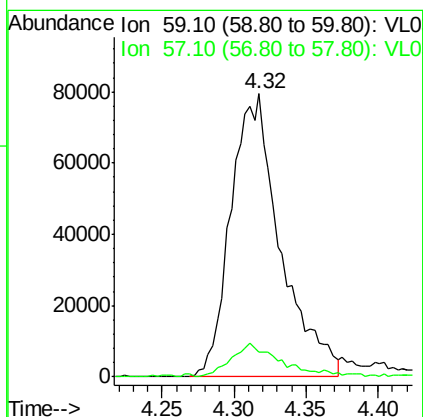
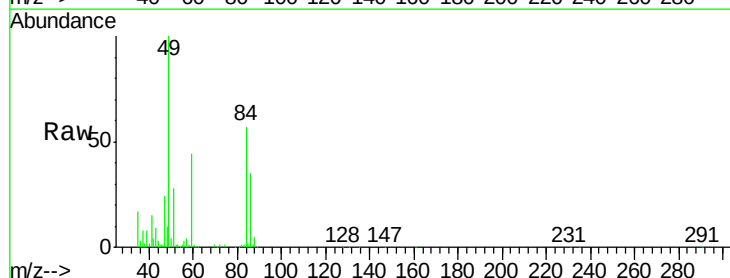
Acq: 13 Apr 2021 21:39

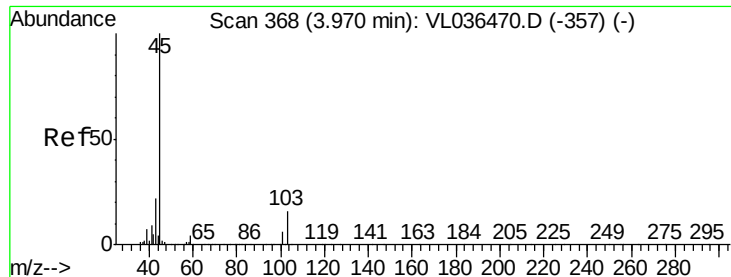
Tgt Ion: 59 Resp: 190195

Ion Ratio Lower Upper

59 100

57 12.6 8.6 12.8





#19

Isopropyl Alcohol

Concen: 7.991 ppbv

RT: 3.98

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 13 Apr 2021 21:39

Tot Ion:

Ion Ratio

45 100

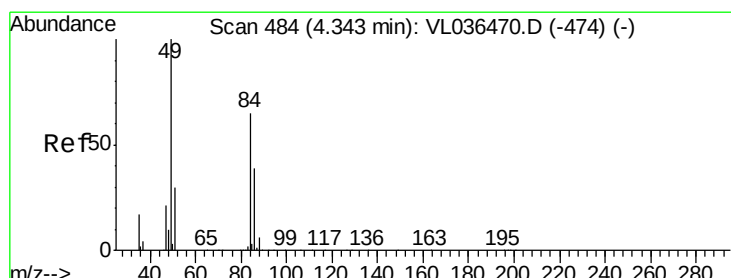
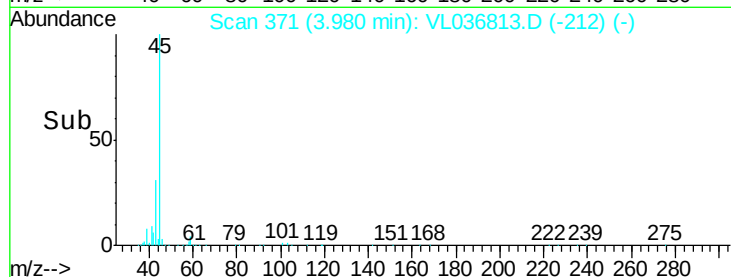
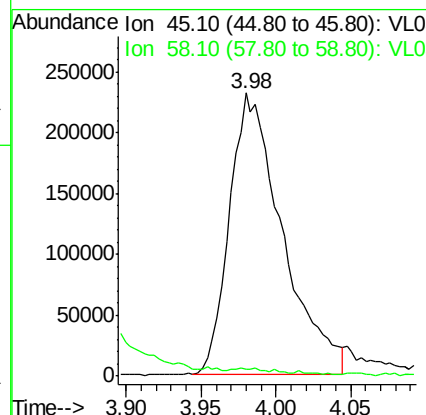
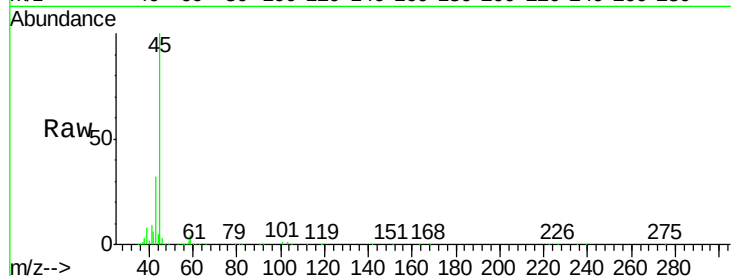
58 138.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/14/2021

Supervised By :Mahesh Dadoda 04/14/2021



#20

Methylene Chloride

Concen: 36.924 ppbv

RT: 4.34 min Scan# 483

Delta R.T. -0.00 min

Lab File: VL036813.D

Acq: 13 Apr 2021 21:39

Tgt Ion: 84 Resp: 2231037

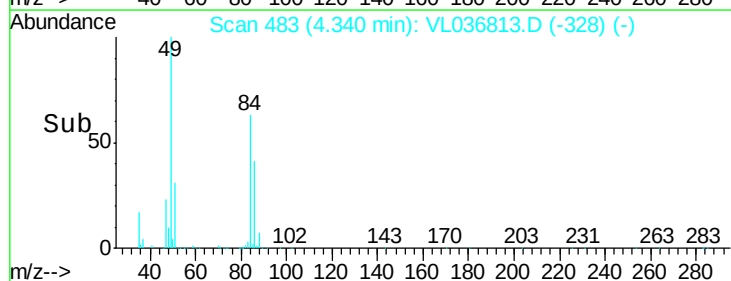
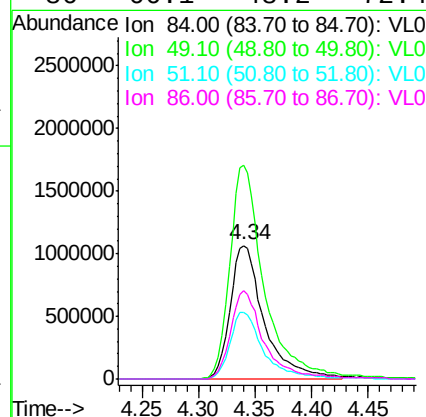
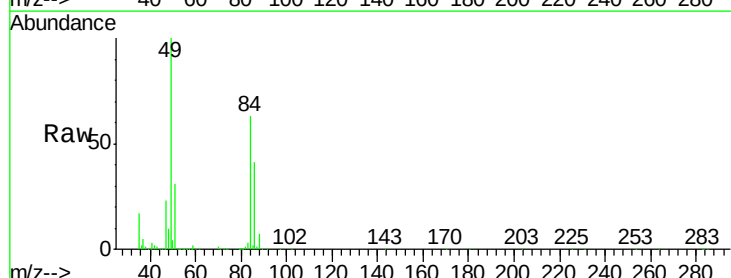
Ion Ratio Lower Upper

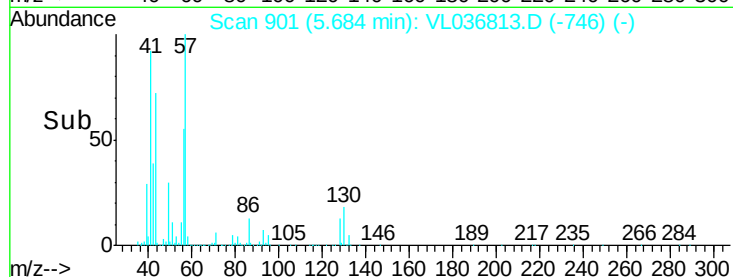
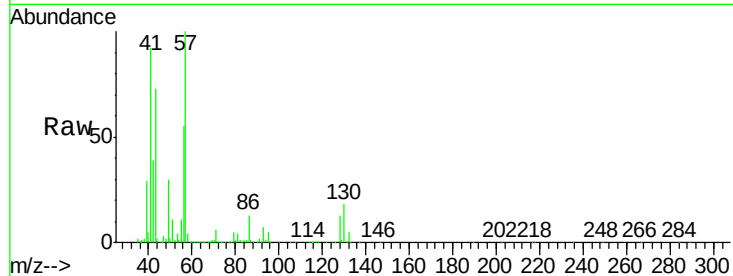
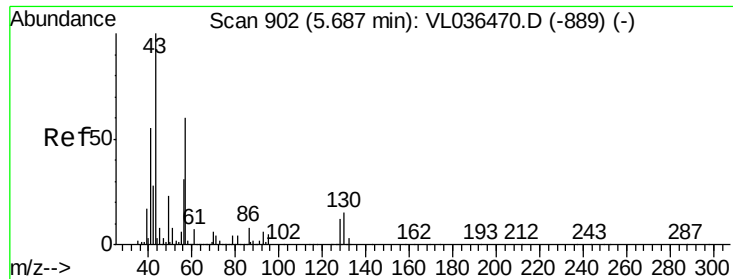
84 100

49 160.0 122.9 184.3

51 50.0 36.9 55.3

86 66.1 48.2 72.4



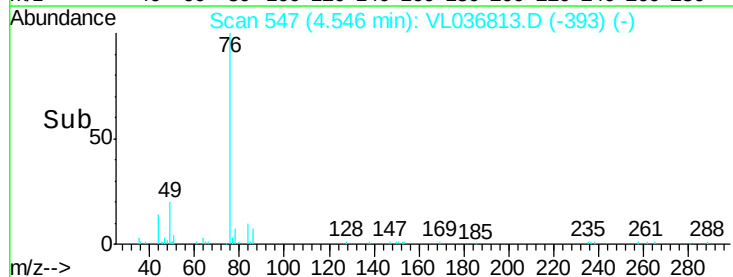
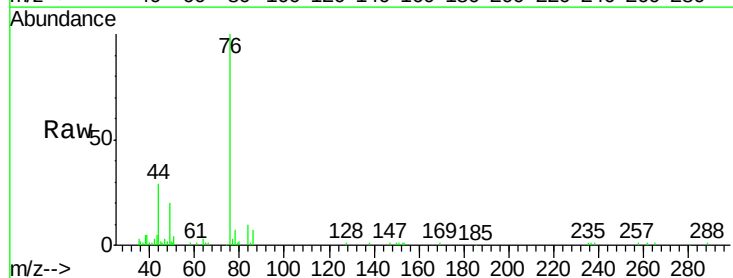
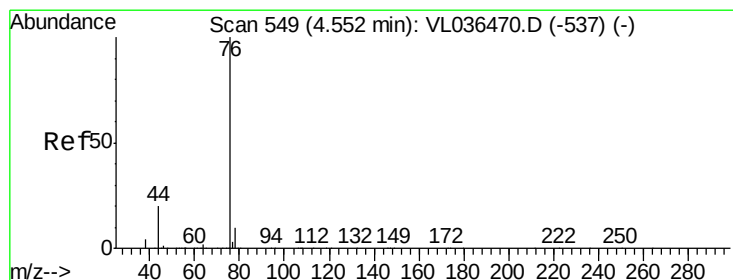
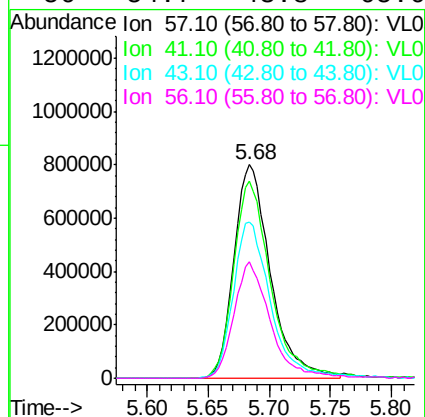


#26
Hexane
Concen: 11.689 ppbv
RT: 5.68
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 13 Apr 2021 21:39

Tot Ion:
Ion Ratio
57 100
41 95.
43 74.
56 54.7 43.8 65.6

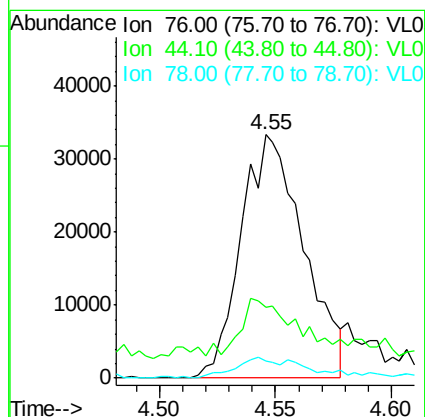
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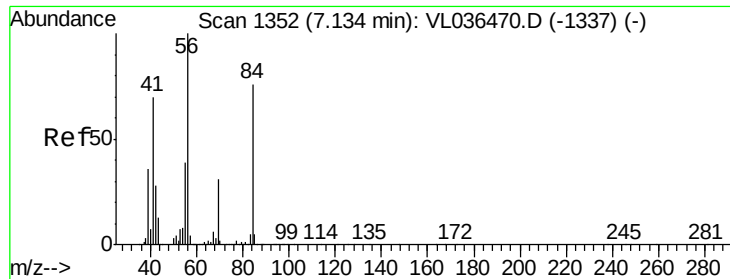
Reviewed By :Semsettin Yesilyurt 04/14/2021
Supervised By :Mahesh Dadoda 04/14/2021



#27
Carbon Disulfide
Concen: 0.446 ppbv
RT: 4.55 min Scan# 547
Delta R.T. -0.01 min
Lab File: VL036813.D
Acq: 13 Apr 2021 21:39

Tgt Ion: 76 Resp: 62542
Ion Ratio Lower Upper
76 100
44 32.7 17.5 26.3#
78 11.6 8.6 13.0





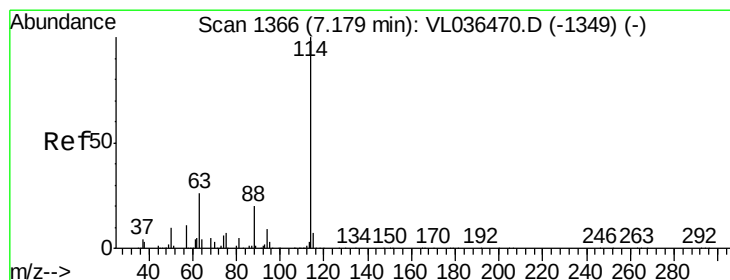
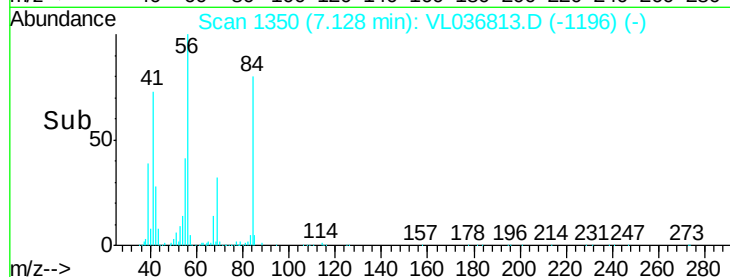
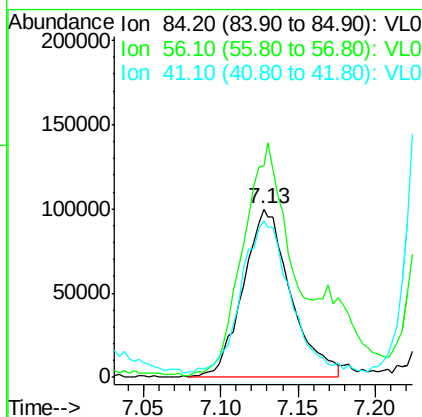
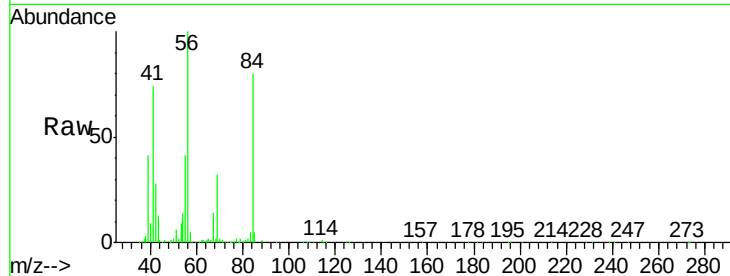
#30
Cyclohexane
Concen: 1.833 ppbv
RT: 7.13 min
Delta R.T.: -0.00 min
Lab File: VL036470.D
Acq: 13 Apr 2021 21:39

Tot Ion:
Ion Ratio

84	100
56	176
41	92

Manual Integrations
APPROVED

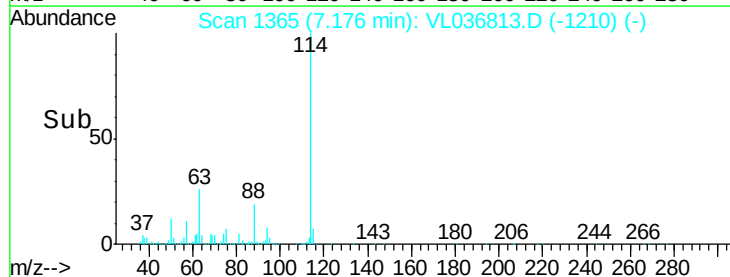
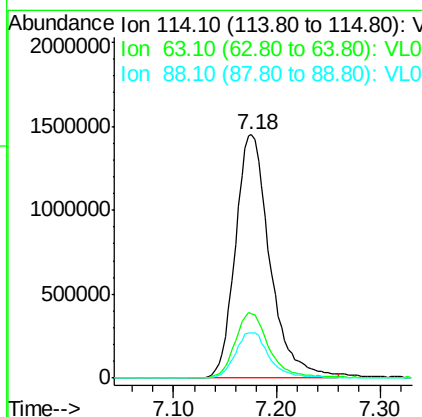
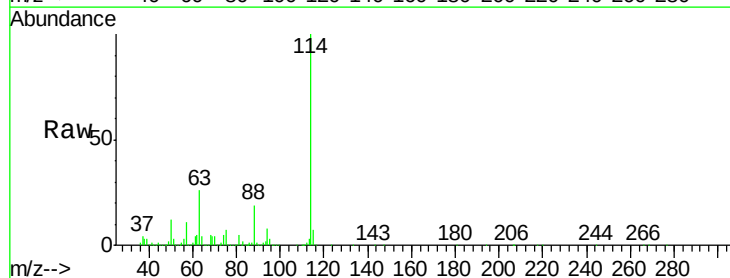
Reviewed By :Semsettin Yesilyurt 04/14/2021
Supervised By :Mahesh Dadoda 04/14/2021

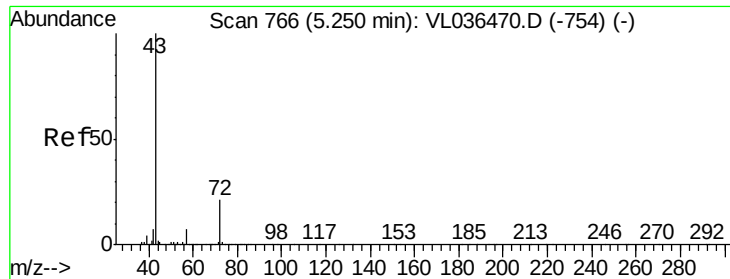


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.18 min Scan# 1365
Delta R.T.: -0.00 min
Lab File: VL036813.D
Acq: 13 Apr 2021 21:39

Tgt Ion:114 Resp: 3374424

Ion	Ratio	Lower	Upper
114	100		
63	26.9	22.4	33.6
88	18.7	15.4	23.0



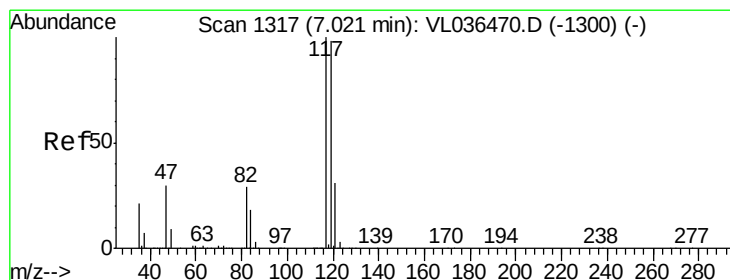
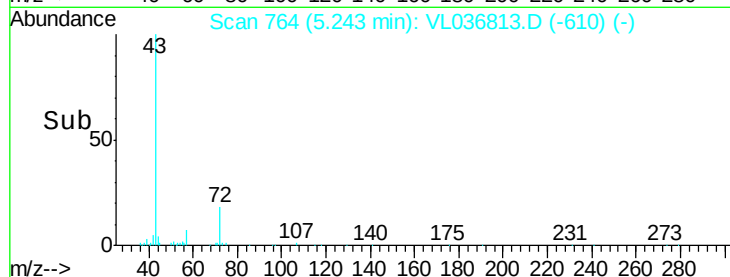
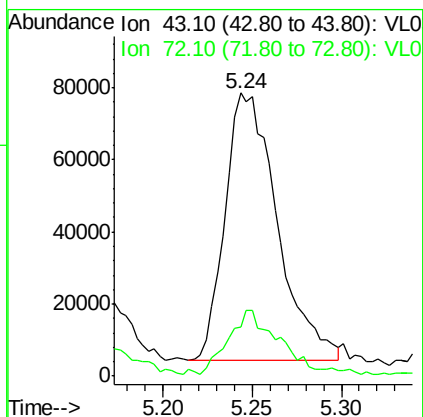
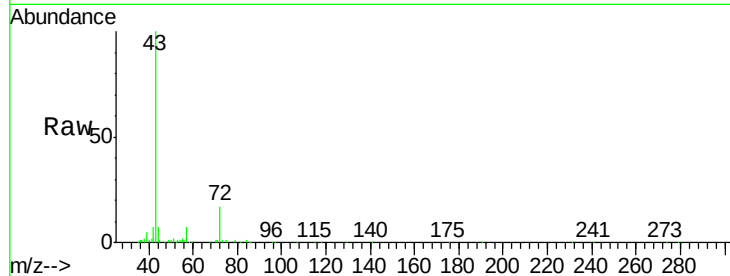


#34
2-Butanone
Concen: 0.919 ppbv
RT: 5.24
Instrument : MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 13 Apr 2021 21:39

Tot Ion:
Ion Ratio
43 100
72 25.

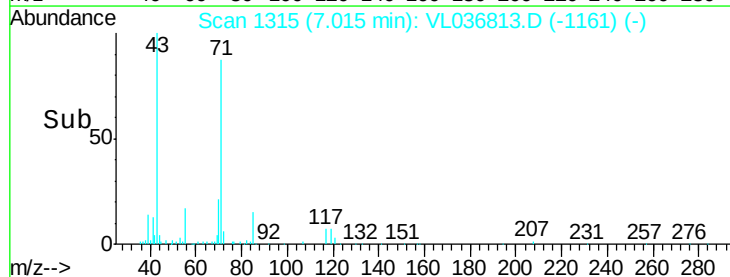
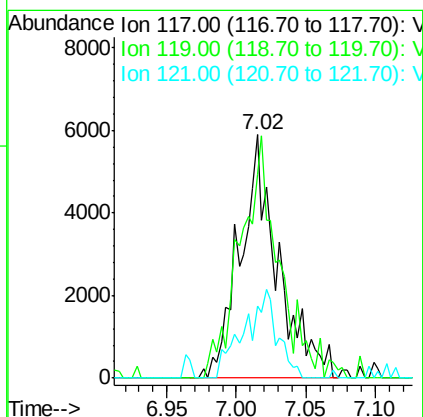
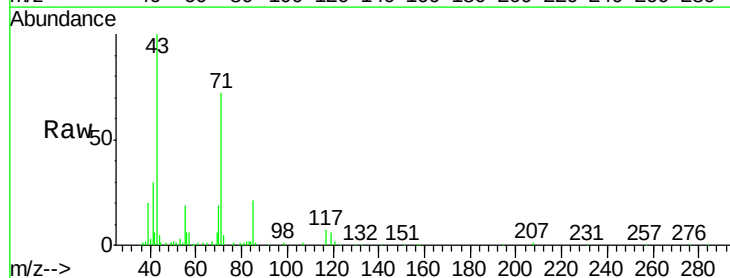
Manual Integrations
APPROVED

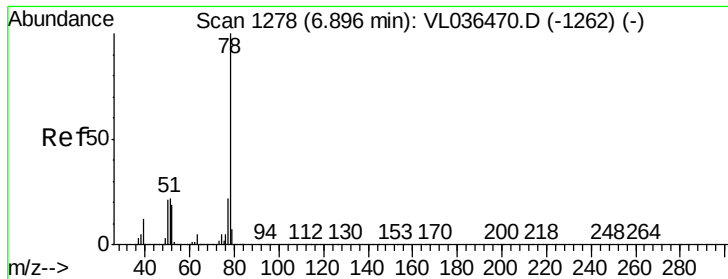
Reviewed By :Semsettin Yesilyurt 04/14/2021
Supervised By :Mahesh Dadoda 04/14/2021



#35
Carbon Tetrachloride
Concen: 0.043 ppbv m
RT: 7.02 min Scan# 1315
Delta R.T. -0.01 min
Lab File: VL036813.D
Acq: 13 Apr 2021 21:39

Tgt Ion:117 Resp: 11074
Ion Ratio Lower Upper
117 100
119 83.9 78.2 117.2
121 29.6 24.5 36.7



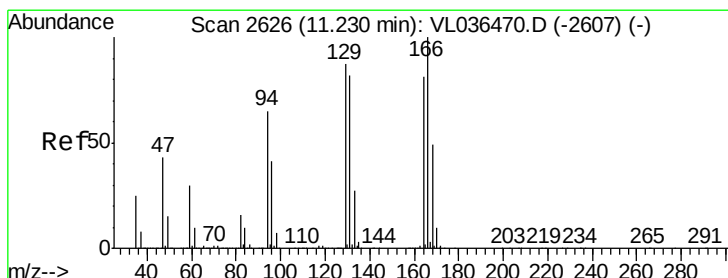
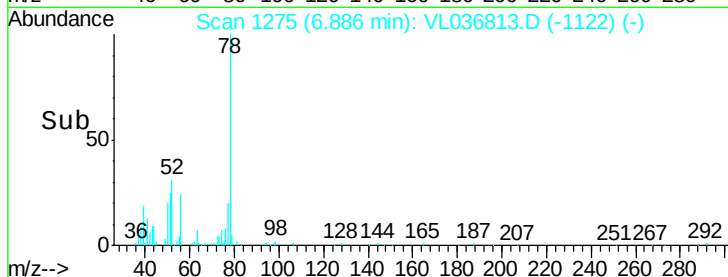
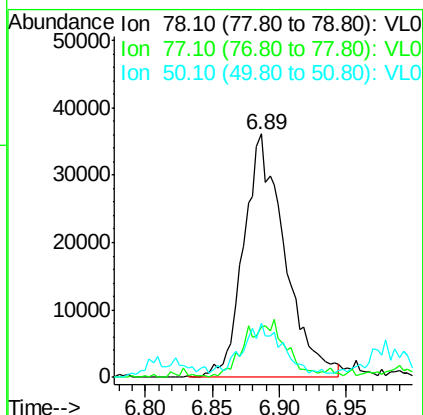
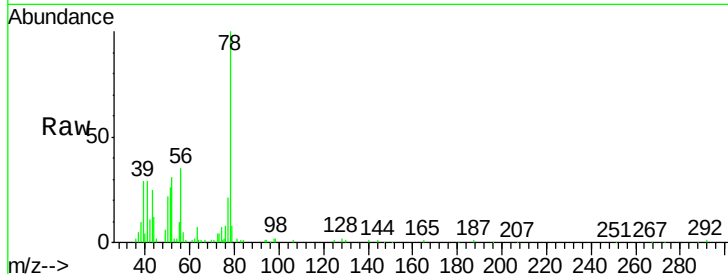


#36
Benzene
Concen: 0.246 ppbv m
RT: 6.89
Instrument: MSVOA_L
Delta R.T.:
Lab File: ClientSampleId:
Acq: 13 Apr 2021 21:39

Tot Ion:
Ion Ratio
78 100
77 20.
50 22.

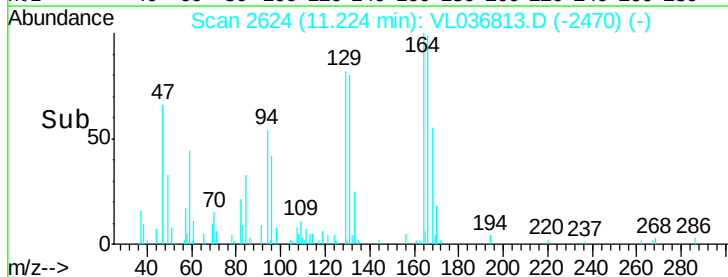
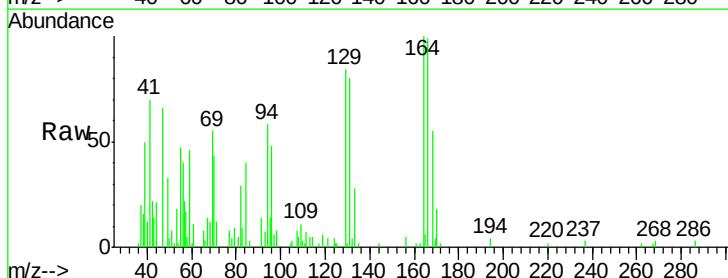
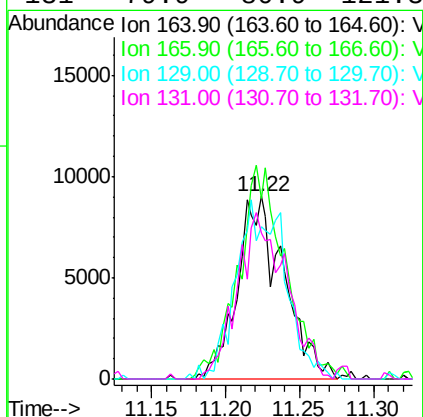
Manual Integrations
APPROVED

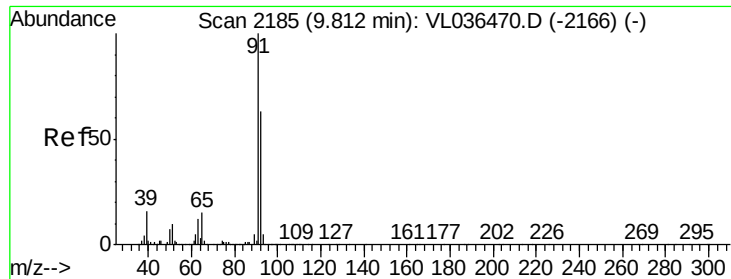
Reviewed By :Semsettin Yesilyurt 04/14/2021
Supervised By :Mahesh Dadoda 04/14/2021



#52
Tetrachloroethene
Concen: 0.172 ppbv m
RT: 11.22 min Scan# 2624
Delta R.T. -0.01 min
Lab File: VL036813.D
Acq: 13 Apr 2021 21:39

Tgt Ion:164 Resp: 19742
Ion Ratio Lower Upper
164 100
166 98.8 98.3 147.5
129 83.6 85.8 128.8#
131 79.9 80.9 121.3#



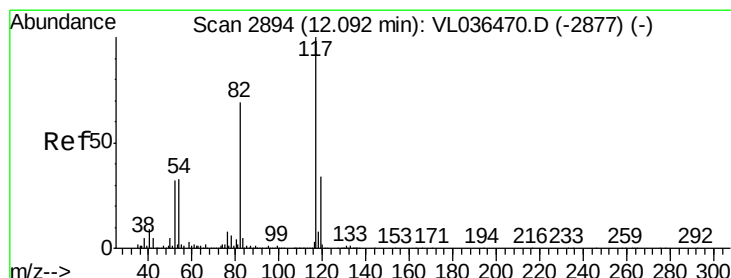
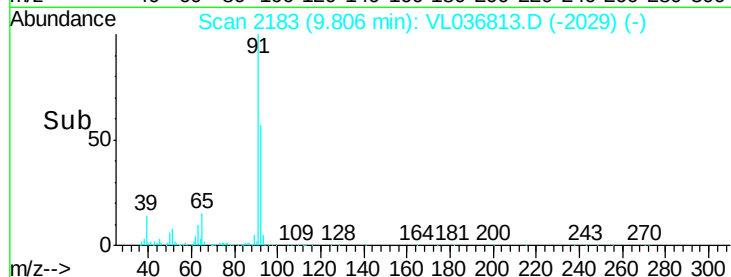
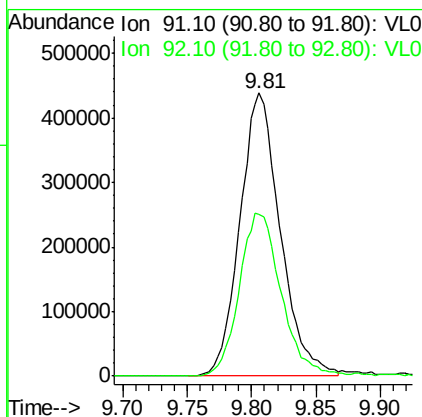
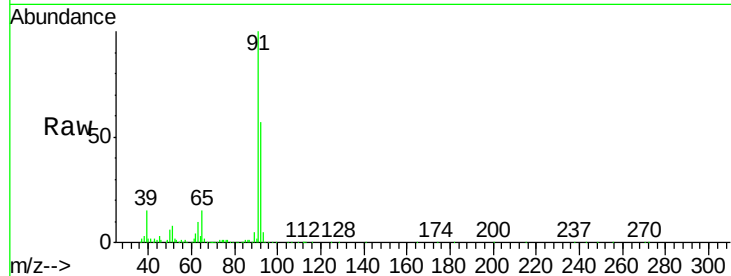


#53
Toluene
Concen: 2.883 ppbv
RT: 9.81
Instrument: MSVOA_L
Delta R.T.:
Lab File: ClientSampleId:
Acq: 13 Apr 2021 21:39

Tot Ion:
Ion Ratio
91 100
92 59.

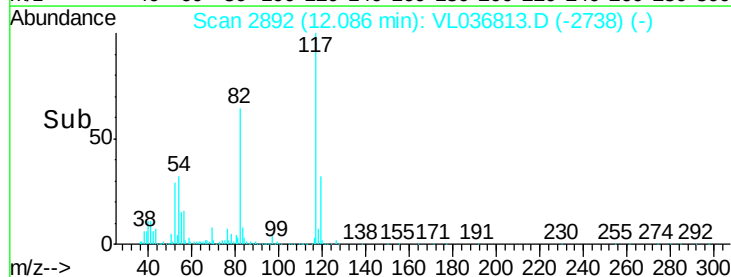
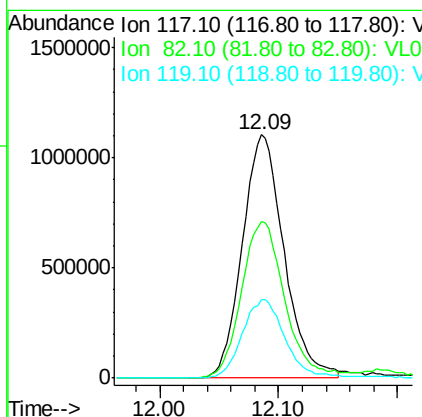
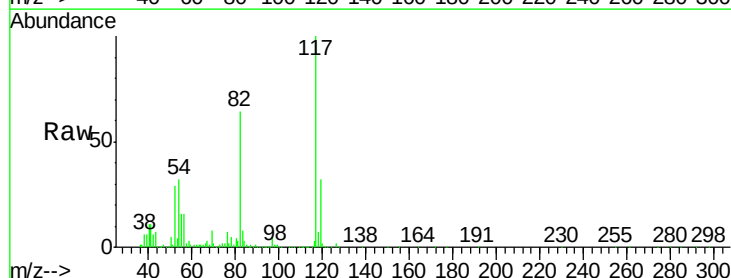
Manual Integrations
APPROVED

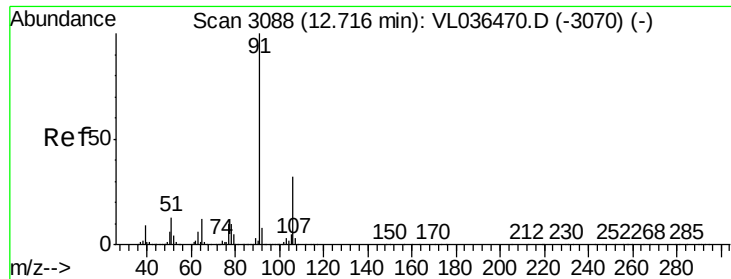
Reviewed By :Semsettin Yesilyurt 04/14/2021
Supervised By :Mahesh Dadoda 04/14/2021



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.09 min Scan# 2892
Delta R.T. -0.01 min
Lab File: VL036813.D
Acq: 13 Apr 2021 21:39

Tgt Ion:117 Resp: 2681182
Ion Ratio Lower Upper
117 100
82 66.6 57.4 86.0
119 33.8 47.4 71.0#



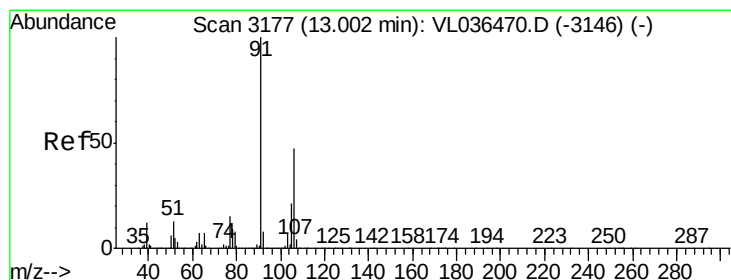
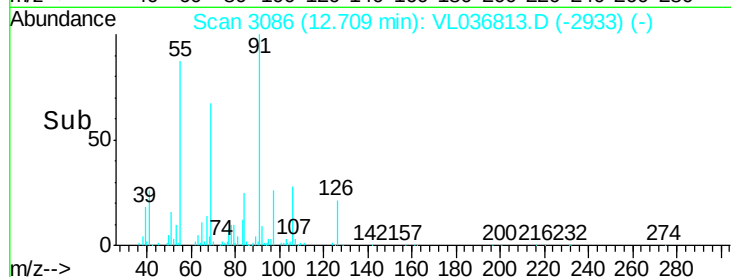
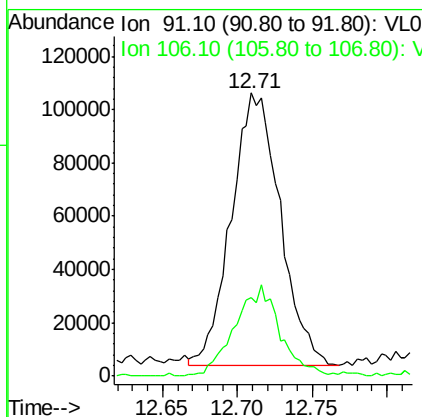
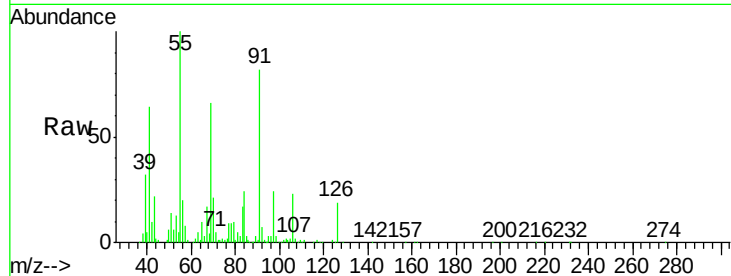


#58
Ethyl Benzene
Concen: 0.599 ppbv
RT: 12.71 min
Instrument: MSVOA_L
Delta R.T.:
Lab File: ClientSampleId :
Acq: 13 Apr 2021 21:39

Tot Ion:
Ion Ratio
91 100
106 28.

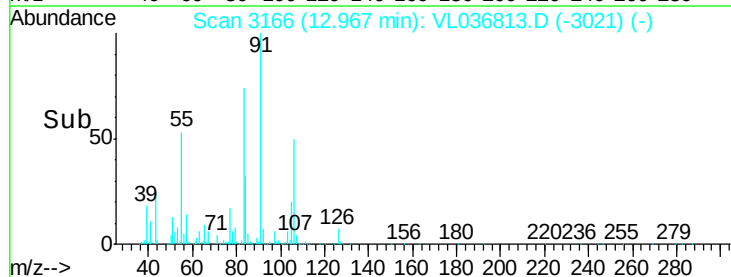
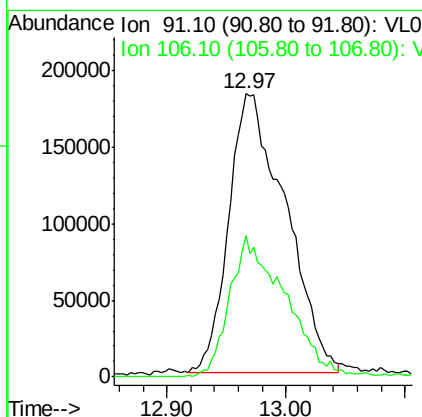
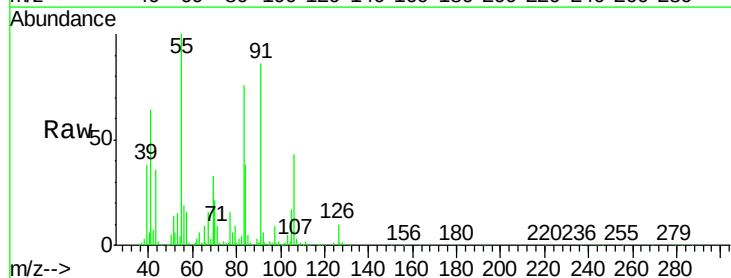
Manual Integrations
APPROVED

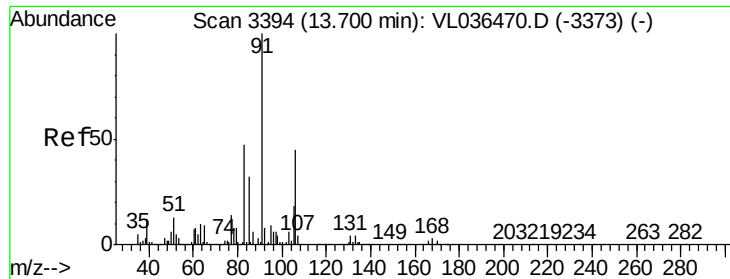
Reviewed By :Semsettin Yesilyurt 04/14/2021
Supervised By :Mahesh Dadoda 04/14/2021



#59
m/p-Xylene
Concen: 1.770 ppbv
RT: 12.97 min Scan# 3166
Delta R.T. -0.04 min
Lab File: VL036813.D
Acq: 13 Apr 2021 21:39

Tgt Ion: 91 Resp: 602183
Ion Ratio Lower Upper
91 100
106 49.4 35.3 52.9



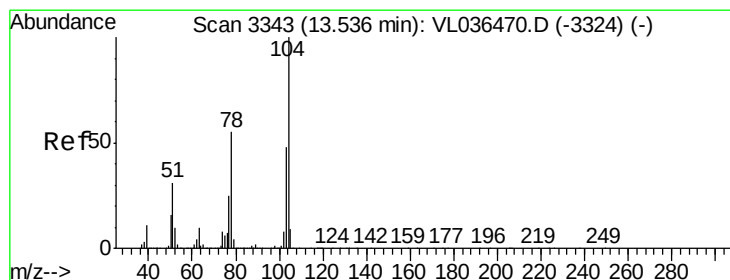
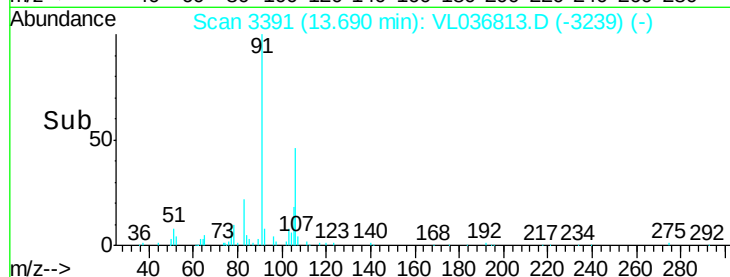
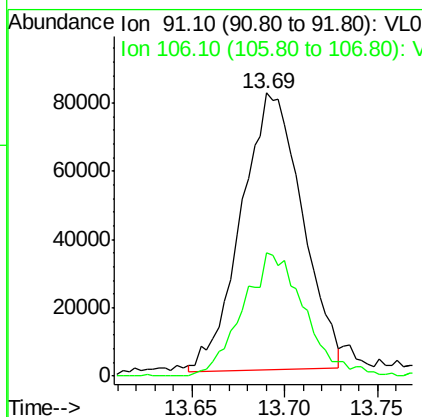
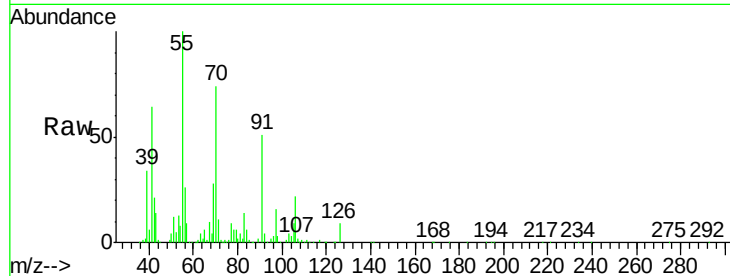


#60
o-Xylene
Concen: 0.565 ppbv
RT: 13.69
Delta R.T.: MSVOA_L
Lab File: ClientSampleId :
Acq: 13 Apr 2021 21:39

Tot Ion:
Ion Ratio
91 100
106 45.

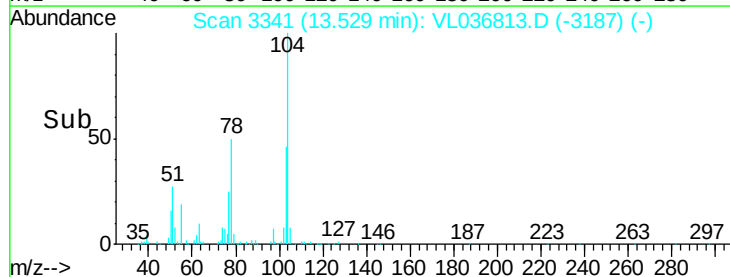
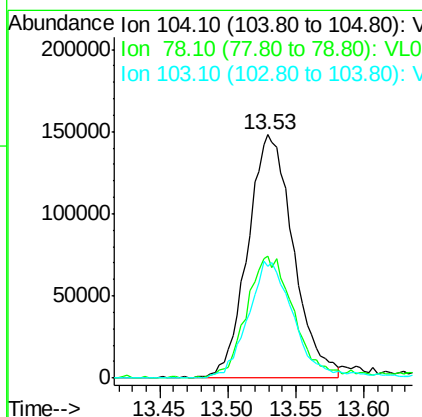
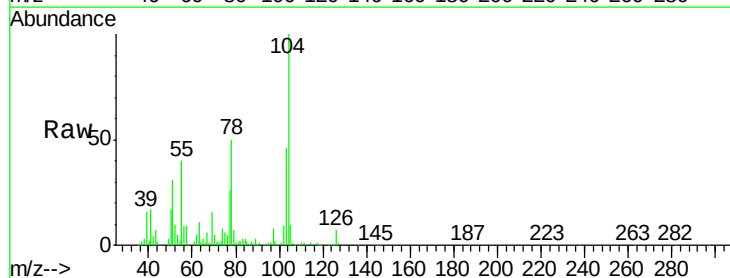
Manual Integrations
APPROVED

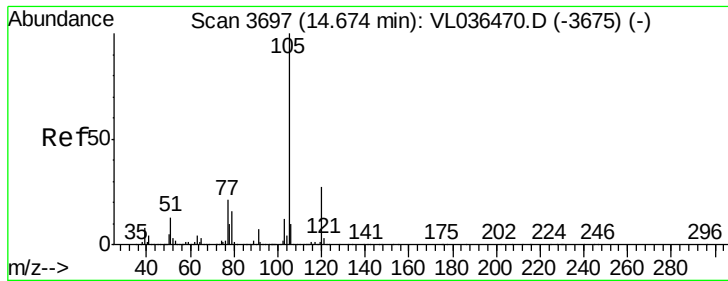
Reviewed By :Semsettin Yesilyurt 04/14/2021
Supervised By :Mahesh Dadoda 04/14/2021



#61
Styrene
Concen: 2.070 ppbv
RT: 13.53 min Scan# 3341
Delta R.T. -0.01 min
Lab File: VL036813.D
Acq: 13 Apr 2021 21:39

Tgt Ion:104 Resp: 342535
Ion Ratio Lower Upper
104 100
78 53.5 43.8 65.8
103 48.8 38.3 57.5





#62

Isopropylbenzene

Concen: 15.939 ppbv

RT: 14.67

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 13 Apr 2021 21:39

Tot Ion:1

Ion Ratio

105 100

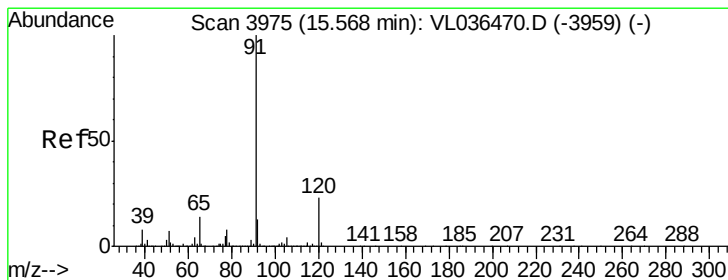
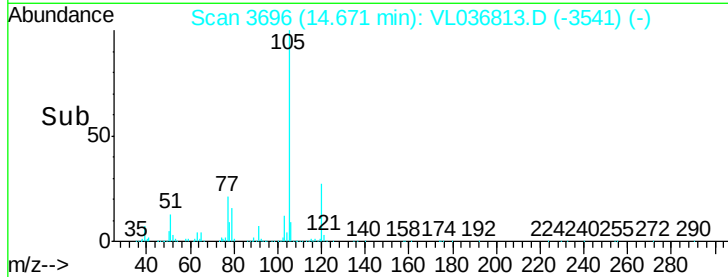
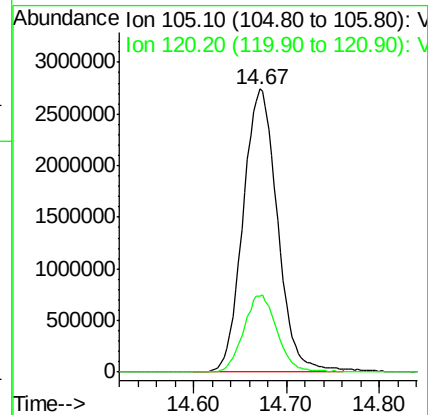
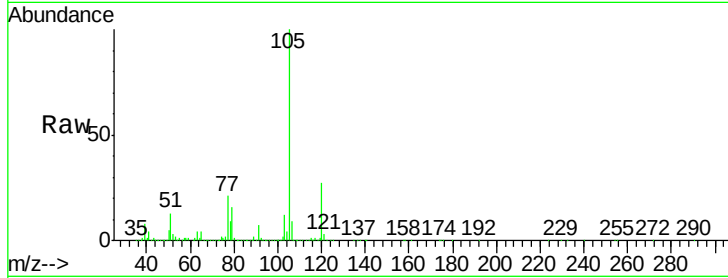
120 26.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/14/2021

Supervised By :Mahesh Dadoda 04/14/2021



#64

n-propylbenzene

Concen: 0.192 ppbv m

RT: 15.57 min Scan# 3975

Delta R.T. -0.00 min

Lab File: VL036813.D

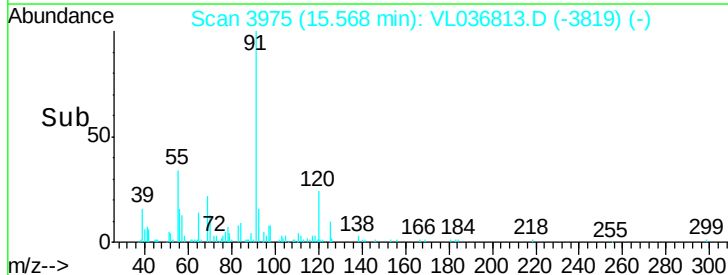
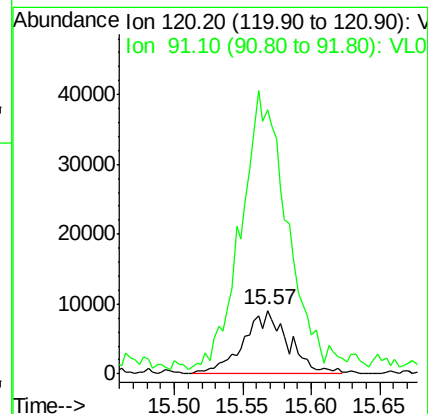
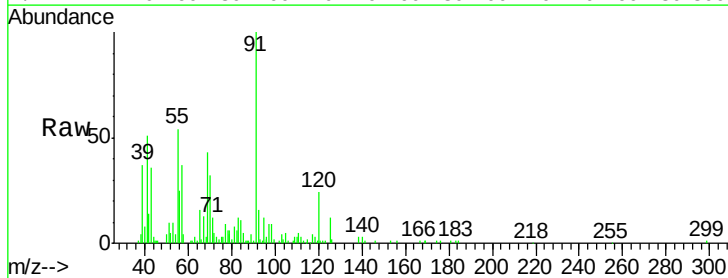
Acq: 13 Apr 2021 21:39

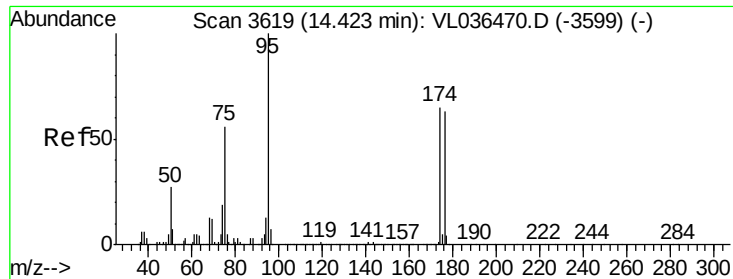
Tgt Ion:120 Resp: 20743

Ion Ratio Lower Upper

120 100

91 445.4 377.4 566.2



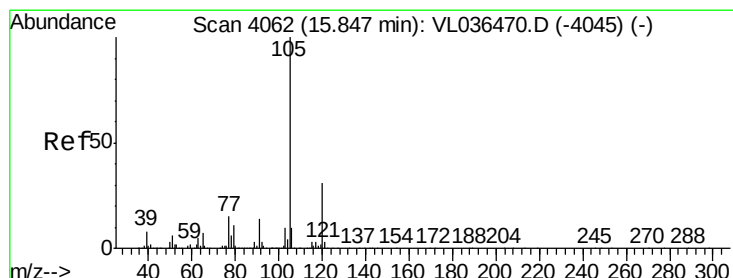
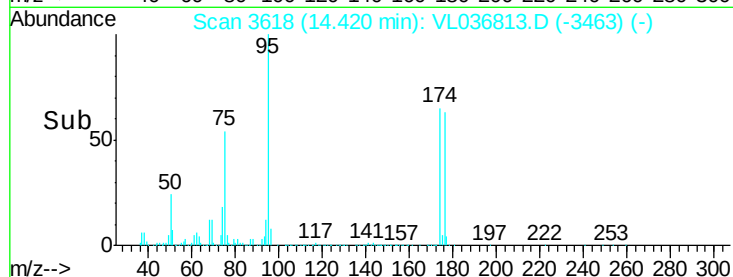
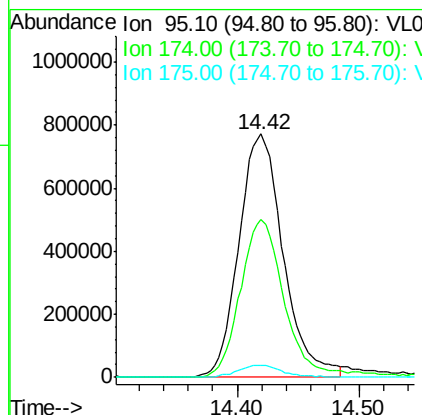
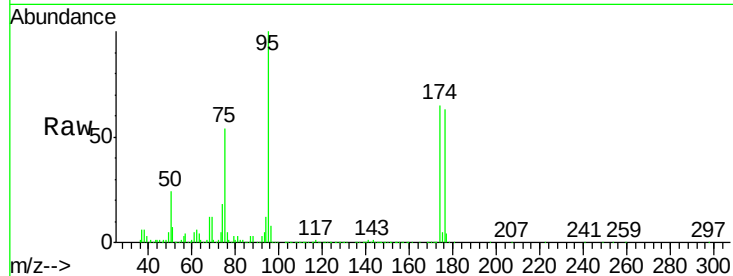


#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.041 ppbv
 RT: 14.42
 Delta R.T.:
 Lab File: MSVOA_L
 ClientSampleId: SC5
 Acq: 13 Apr 2021 21:39

Tot Ion:
 Ion Ratio
 95 100
 174 66.
 175 5.

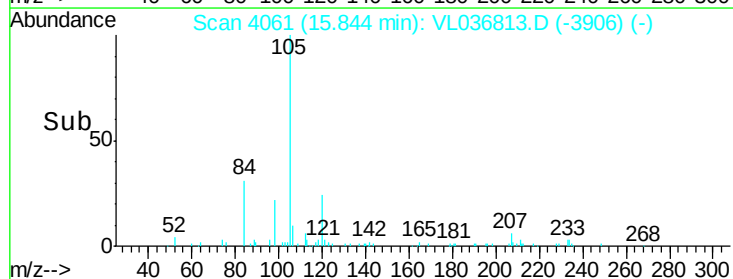
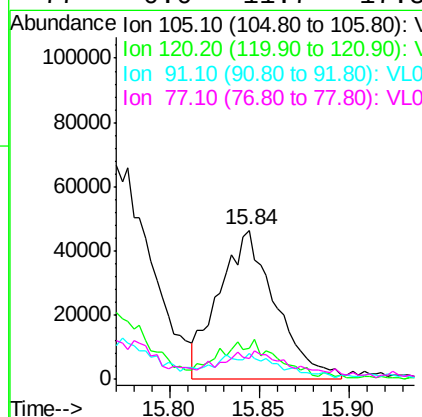
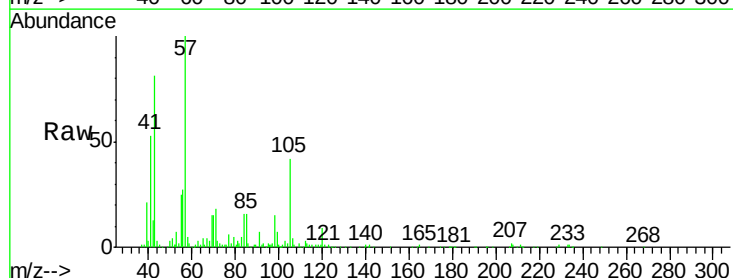
Manual Integrations
 APPROVED

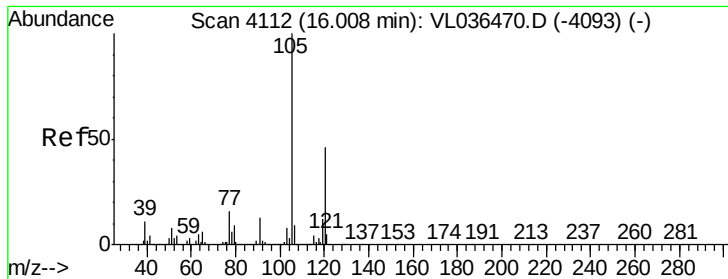
Reviewed By :Semsettin Yesilyurt 04/14/2021
 Supervised By :Mahesh Dadoda 04/14/2021



#72
 4-Ethyltoluene
 Concen: 0.283 ppbv m
 RT: 15.84 min Scan# 4061
 Delta R.T. -0.00 min
 Lab File: VL036813.D
 Acq: 13 Apr 2021 21:39

Tgt Ion:105 Resp: 102165
 Ion Ratio Lower Upper
 105 100
 120 0.0 24.0 36.0#
 91 0.0 11.0 16.4#
 77 0.0 11.7 17.5#





#73

1,3,5-Trimethylbenzene

Concen: 0.162 ppbv m

RT: 16.00

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 13 Apr 2021 21:39

Tot Ion:1

Ion Ratio

105 100

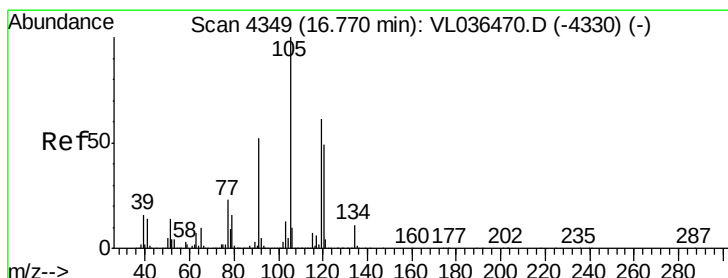
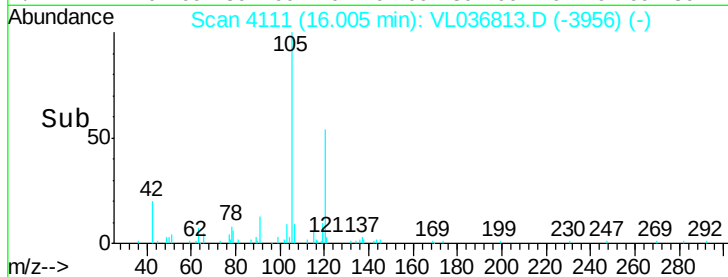
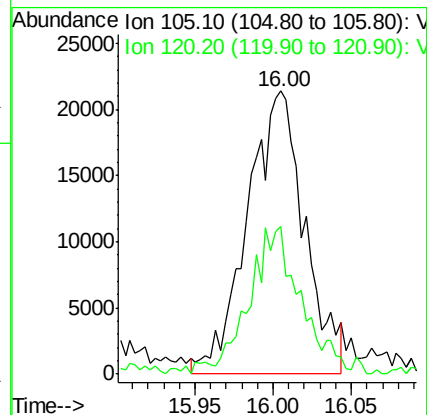
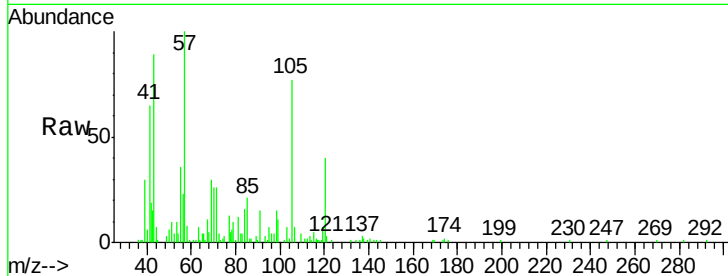
120 52.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/14/2021

Supervised By :Mahesh Dadoda 04/14/2021



#74

1,2,4-Trimethylbenzene

Concen: 0.466 ppbv

RT: 16.77 min Scan# 4348

Delta R.T. -0.00 min

Lab File: VL036813.D

Acq: 13 Apr 2021 21:39

Tgt Ion:105 Resp: 167649

Ion Ratio Lower Upper

105 100

120 35.9 39.2 58.8#

91 3.3 42.6 64.0#

77 4.3 18.6 28.0#

