

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL040722\
 Data File : VL038848.D
 Acq On : 7 Apr 2022 19:33
 Operator : SY/AP
 Sample : N2273-03
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

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

Manual Integrations
 APPROVED

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

Quant Time: Apr 08 08:16:12 2022
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL040522A
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:
 QLast Update : Wed Apr 06 06:12:53 2022
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.69	49	1206625	10.00	ppbv	0.03
33) 1,4-Difluorobenzene	7.20	114	3065820	10.00	ppbv	0.03
55) Chlorobenzene-d5	12.11	117	2678384	10.00	ppbv	0.04

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.44	95	2229463	10.97	ppbv	0.04
Spiked Amount	10.000	Range	65 - 135	Recovery	=	109.70%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	3.07	85	46762	0.273	ppbv	96
3) Chlorodifluoromethane	3.01	51	67402m	0.458	ppbv	
4) Chloromethane	3.17	50	38446	0.504	ppbv	97
9) Propene	3.04	41	502708m	6.452	ppbv	
10) Heptane	8.15	43	131088	0.668	ppbv	92
11) Trichlorofluoromethane	3.97	101	34096	0.248	ppbv	99
13) Ethanol	3.62	45	280260	59.192	ppbv #	100
15) Acetone	3.87	43	2436778	20.284	ppbv	92
19) Isopropyl Alcohol	3.99	45	680051	11.076	ppbv #	100
20) Methylene Chloride	4.37	84	90337	2.073	ppbv #	82
25) Ethyl Acetate	5.70	43	1340208	4.397	ppbv #	96
30) Cyclohexane	7.15	84	33906m	0.277	ppbv	
34) 2-Butanone	5.27	43	643300	5.310	ppbv	97
35) Carbon Tetrachloride	7.04	117	14678m	0.080	ppbv	
36) Benzene	6.92	78	160348m	0.575	ppbv	
44) 2,2,4-Trimethylpentane	7.90	57	229279	0.486	ppbv #	70
50) 4-Methyl-2-Pentanone	8.77	43	528945	1.941	ppbv	97
52) Tetrachloroethene	11.25	164	20502m	0.210	ppbv	
53) Toluene	9.83	91	3208858	9.967	ppbv	99
58) Ethyl Benzene	12.73	91	594604m	1.486	ppbv	
59) m/p-Xylene	12.99	91	1726555	5.135	ppbv	99
60) o-Xylene	13.72	91	519210	1.650	ppbv	97
61) Styrene	13.55	104	2155861	11.247	ppbv	95
72) 4-Ethyltoluene	15.87	105	119946	0.319	ppbv	98
73) 1,3,5-Trimethylbenzene	16.02	105	100299m	0.297	ppbv	
74) 1,2,4-Trimethylbenzene	16.79	105	338010	0.947	ppbv #	70

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

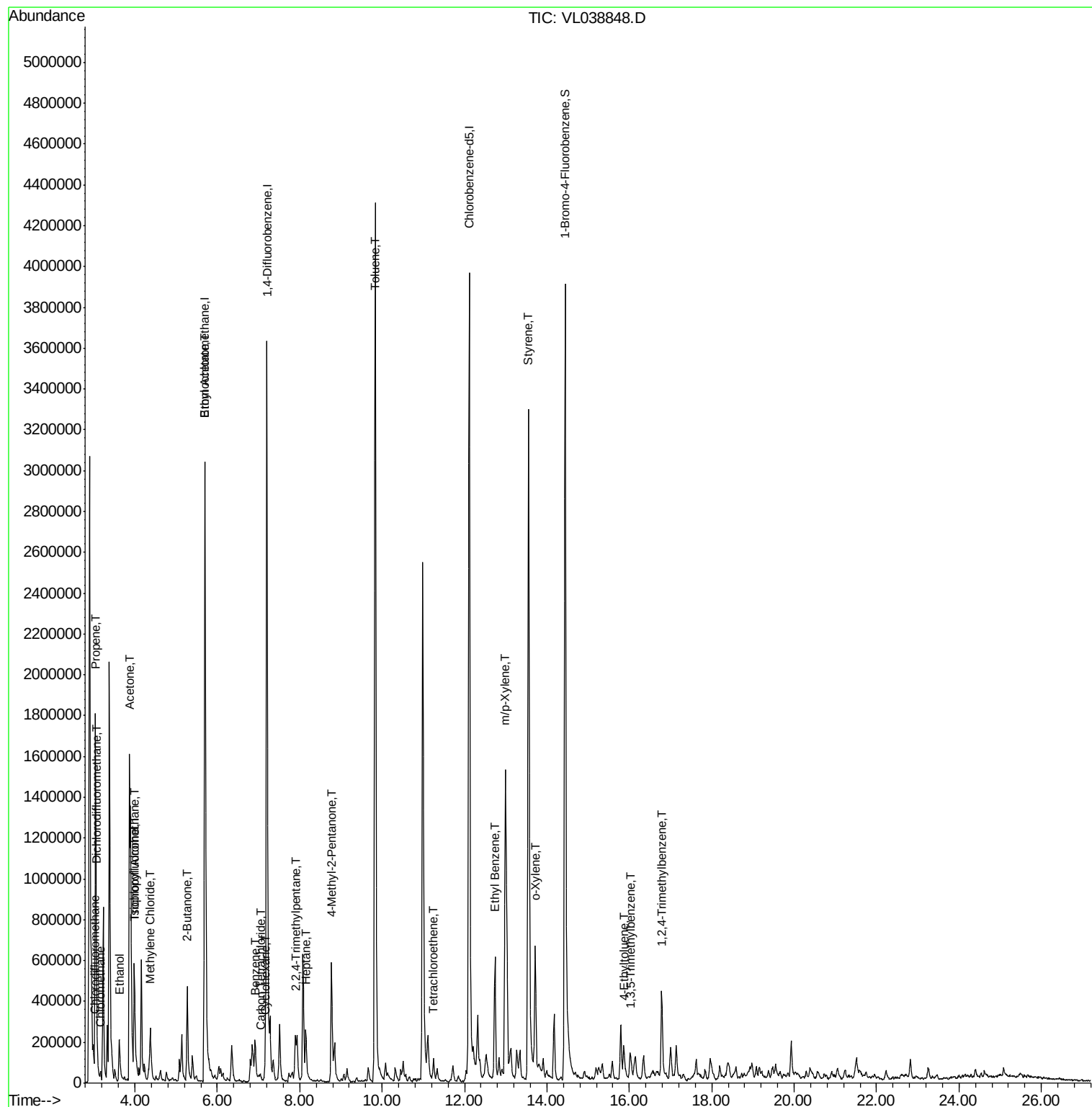
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL040722\
Data File : VL038848.D
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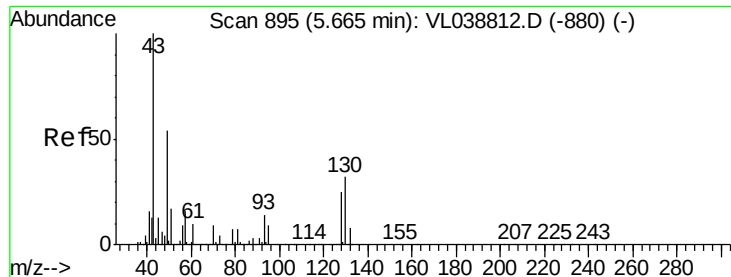
Instrument :
MSVOA_L
ClientSampleId :
1160-1-1A-3

Quant Time: Apr 08 08:16:12 2022
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL040522
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:
QLast Update : Wed Apr 06 06:12:53 2022
Response via : Initial Calibration

Manual Integrations
APPROVED

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





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.69

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 7 Apr 2022 19:33

Tot Ion:

Ion Ratio

49 100

128 46.

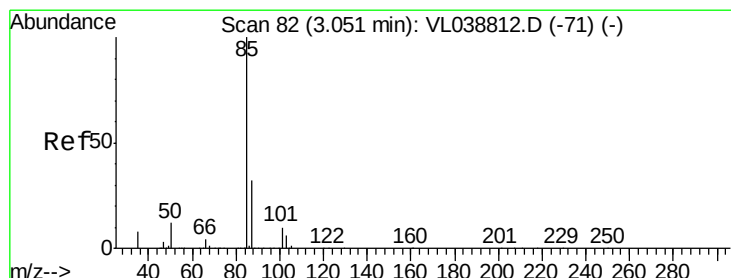
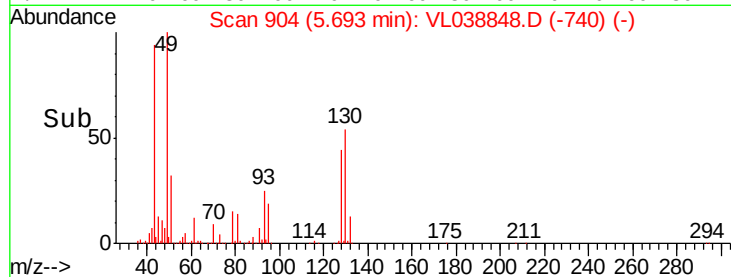
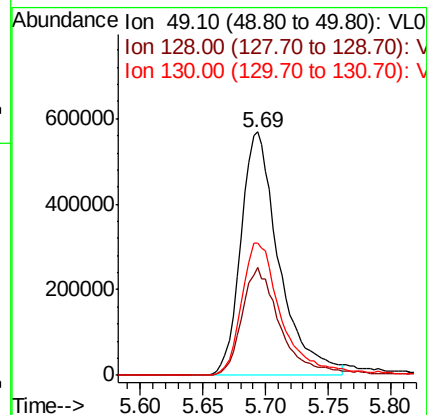
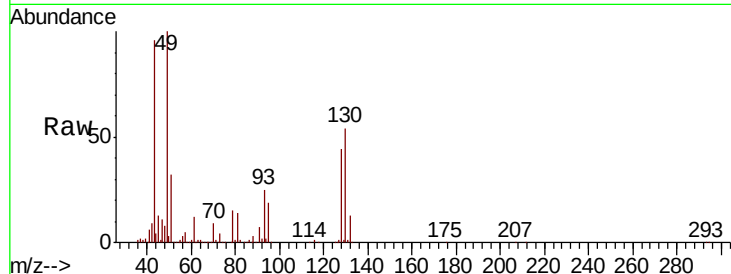
130 59.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/09/2022

Supervised By :Mahesh Dadoda 04/11/2022



#2

Dichlorodifluoromethane

Concen: 0.273 ppbv

RT: 3.07 min Scan# 88

Delta R.T. 0.02 min

Lab File: VL038848.D

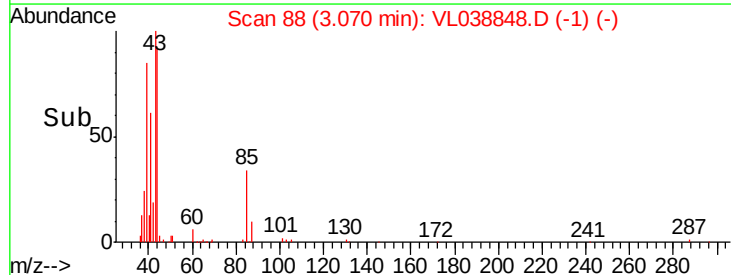
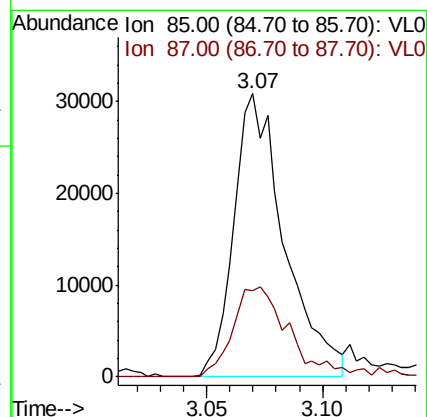
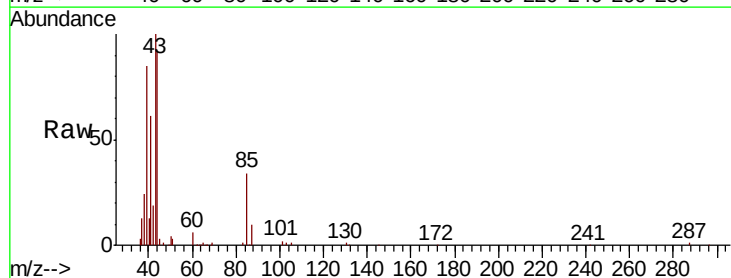
Acq: 7 Apr 2022 19:33

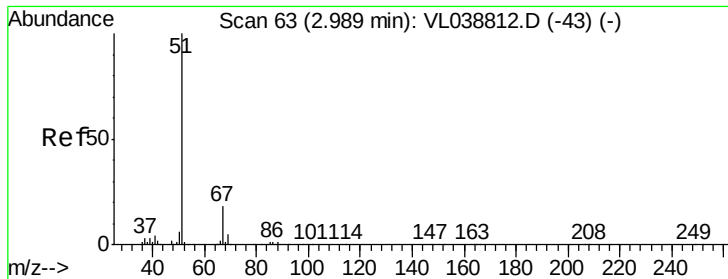
Tgt Ion: 85 Resp: 46762

Ion Ratio Lower Upper

85 100

87 30.3 25.9 38.9





#3

Chlorodifluoromethane

Concen: 0.458 ppbv m

RT: 3.01 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 7 Apr 2022 19:33

Tot Ion:

Ion Ratio

51 100

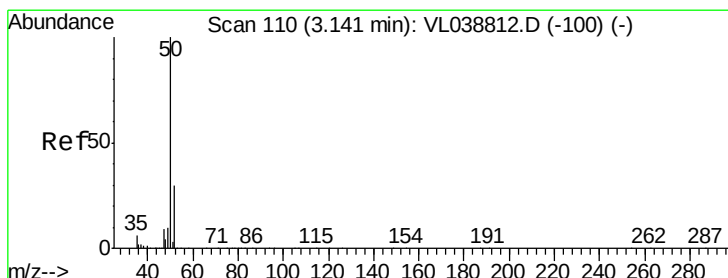
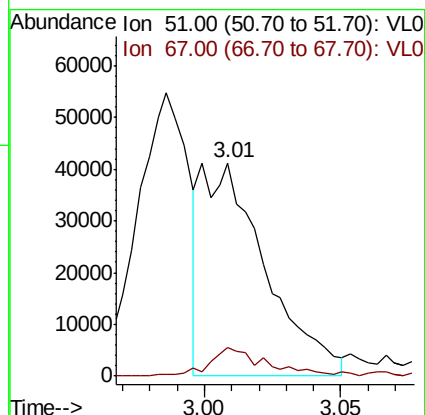
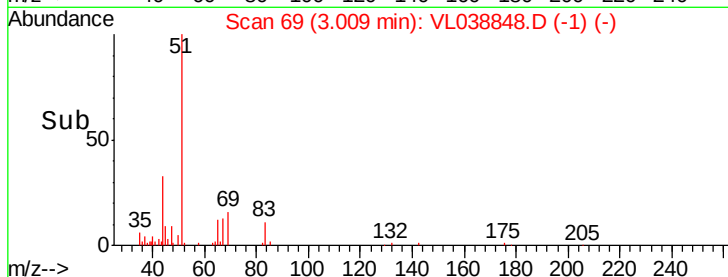
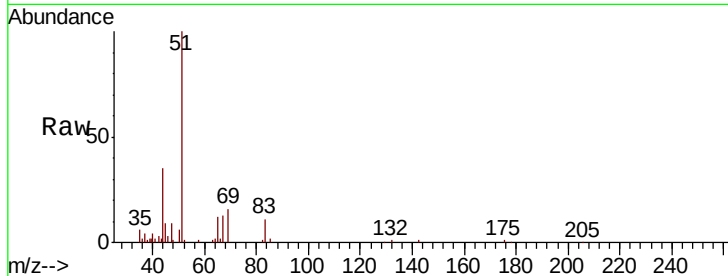
67 12.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/09/2022

Supervised By :Mahesh Dadoda 04/11/2022



#4

Chloromethane

Concen: 0.504 ppbv

RT: 3.17 min Scan# 118

Delta R.T. 0.03 min

Lab File: VL038848.D

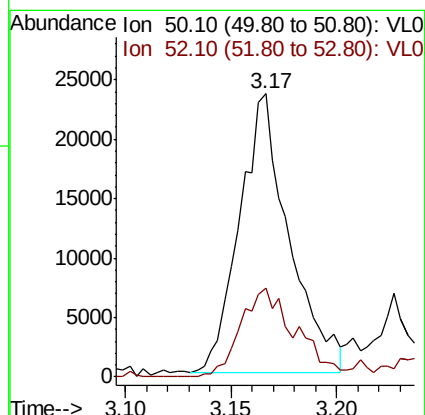
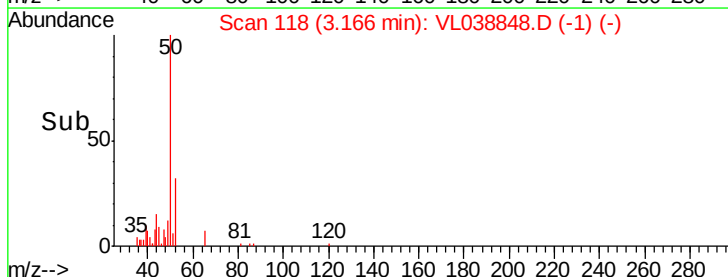
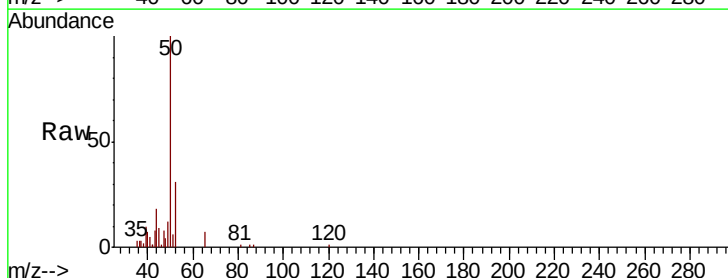
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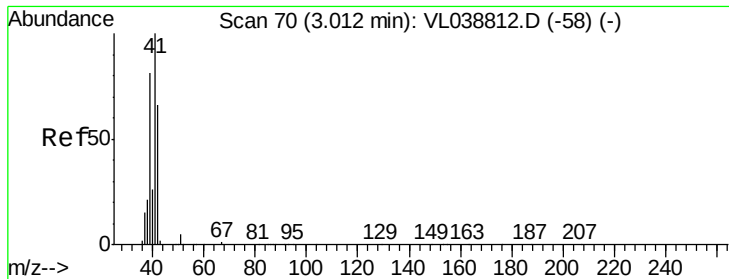
Tgt Ion: 50 Resp: 38446

Ion Ratio Lower Upper

50 100

52 32.1 24.3 36.5





#9

Propene

Concen: 6.452 ppbv m

RT: 3.04 Instrument :

Delta R.T. MSVOA_1

Lab File: ClientSampleId :

Acq: 7 Apr 2022 19:33

Tot Ion:

Ion Ratio

41 100

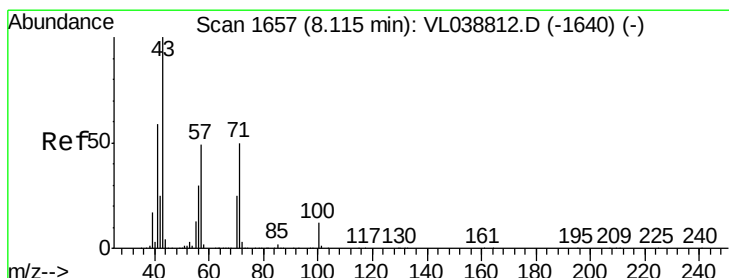
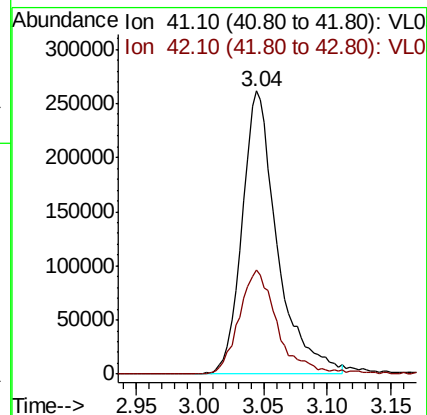
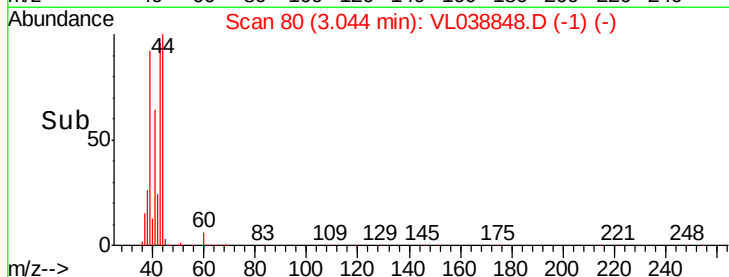
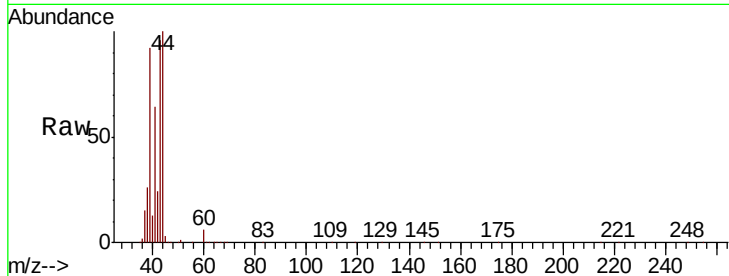
42 39.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/09/2022

Supervised By :Mahesh Dadoda 04/11/2022



#10

Heptane

Concen: 0.668 ppbv

RT: 8.15 min Scan# 1667

Delta R.T. 0.03 min

Lab File: VL038848.D

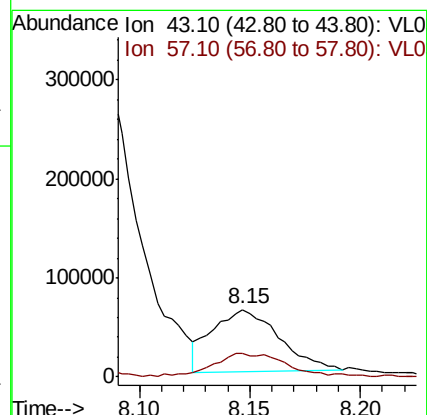
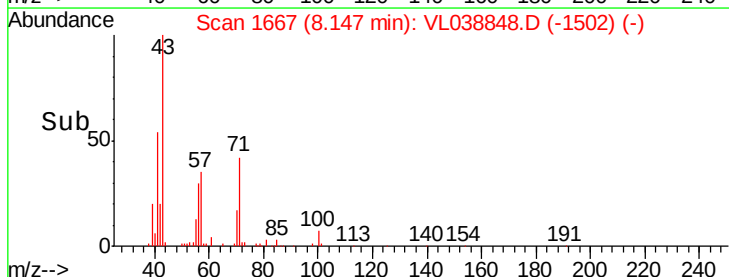
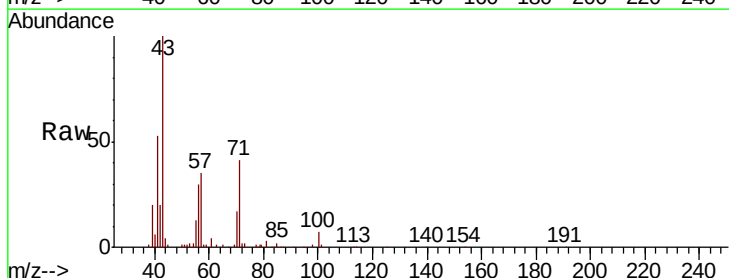
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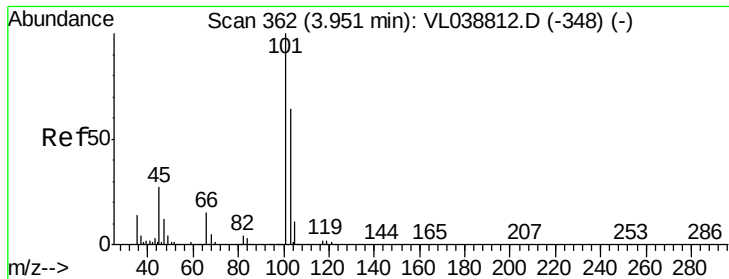
Tgt Ion: 43 Resp: 131088

Ion Ratio Lower Upper

43 100

57 43.6 39.3 58.9



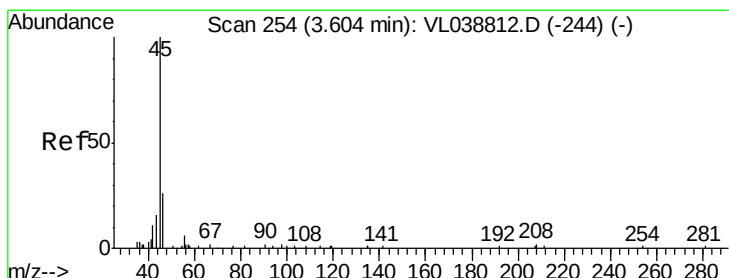
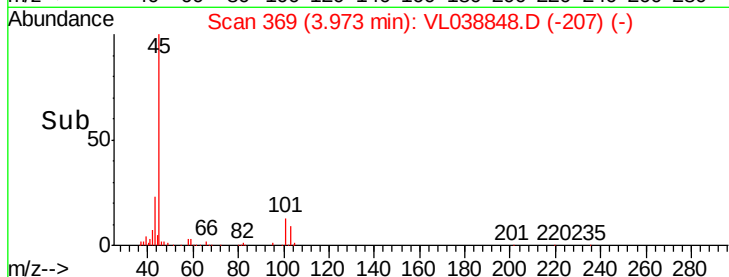
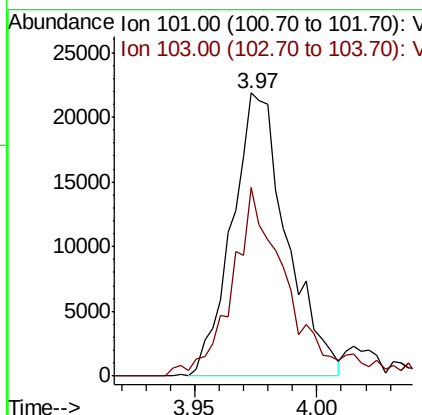
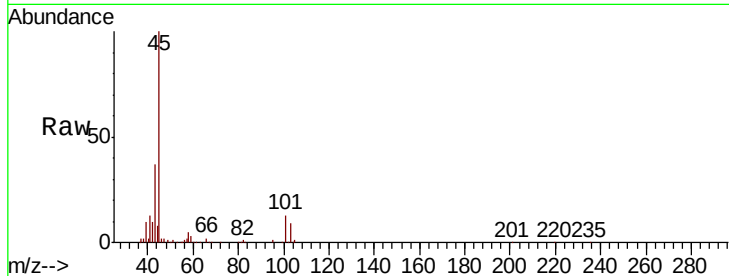


#11
 Trichlorofluoromethane
 Concen: 0.248 ppbv
 RT: 3.97
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId : 1160-1-1A-3
 Acq: 7 Apr 2022 19:33

Tot Ion:1
 Ion Rati
 101 100
 103 64.

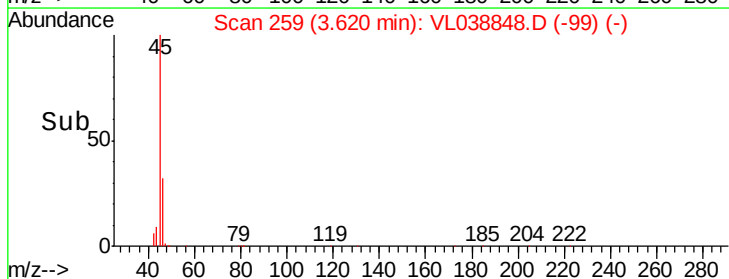
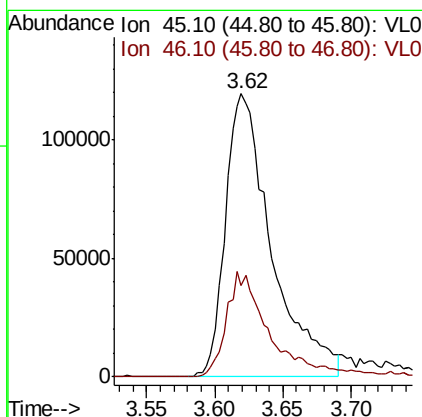
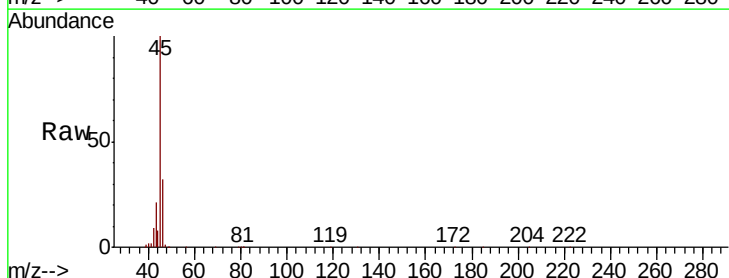
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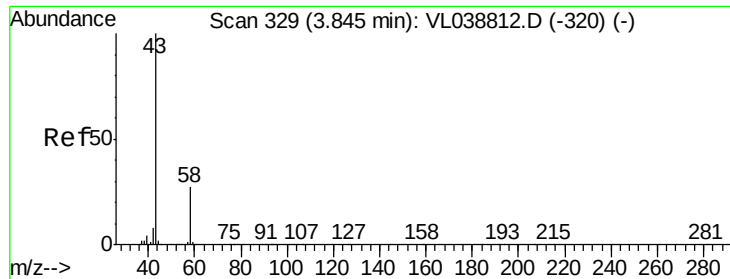
Reviewed By :Semsettin Yesilyurt 04/09/2022
 Supervised By :Mahesh Dadoda 04/11/2022



#13
 Ethanol
 Concen: 59.192 ppbv
 RT: 3.62 min Scan# 259
 Delta R.T. 0.02 min
 Lab File: VL038848.D
 Acq: 7 Apr 2022 19:33

Tgt Ion: 45 Resp: 280260
 Ion Ratio Lower Upper
 45 100
 46 36.2 0.0 0.0#



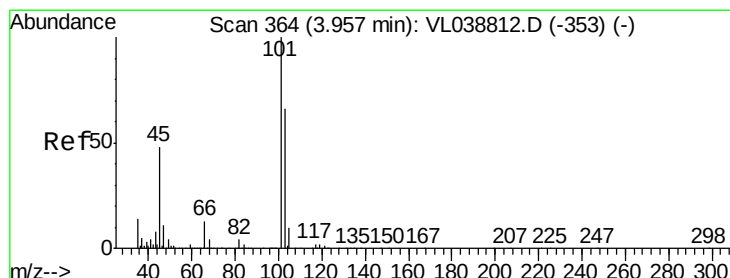
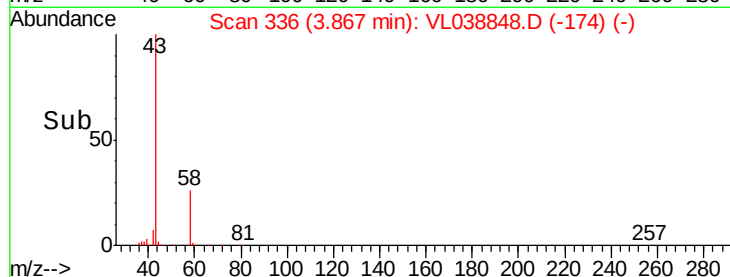
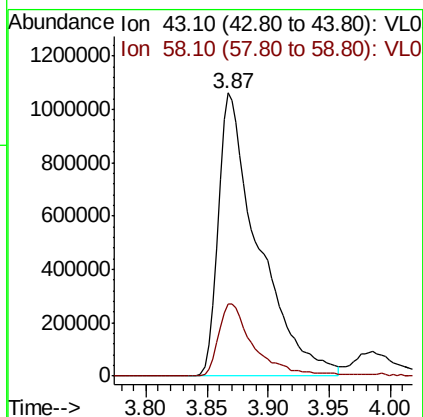
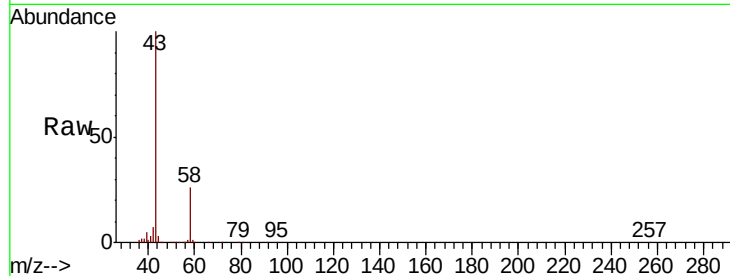


#15
Acetone
Concen: 20.284 ppbv
RT: 3.87
Instrument : MSVOA_1
Delta R.T. :
Lab File: ClientSampleId :
Acq: 7 Apr 2022 19:33

Tot Ion:
Ion Rati
43 100
58 24.

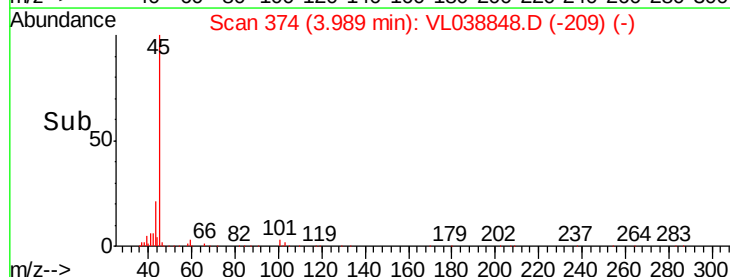
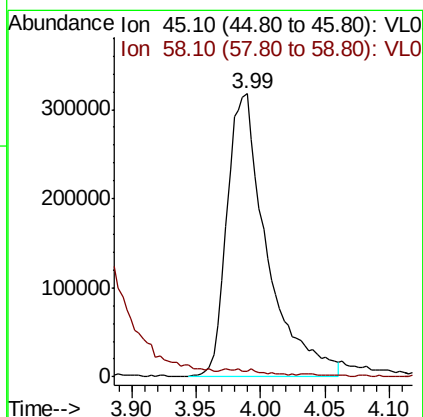
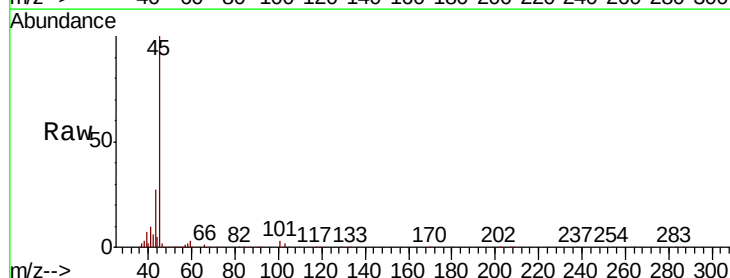
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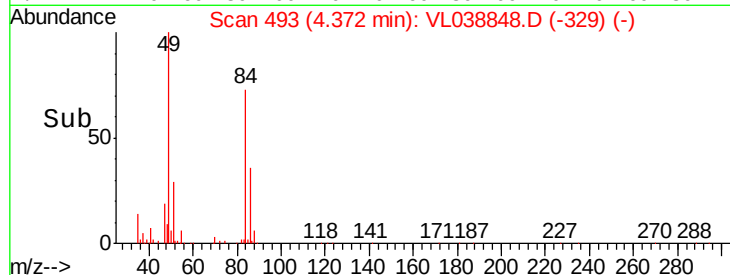
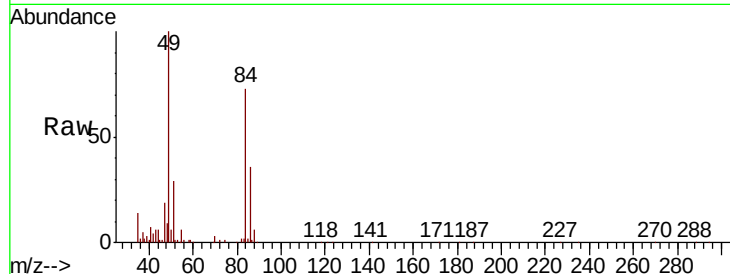
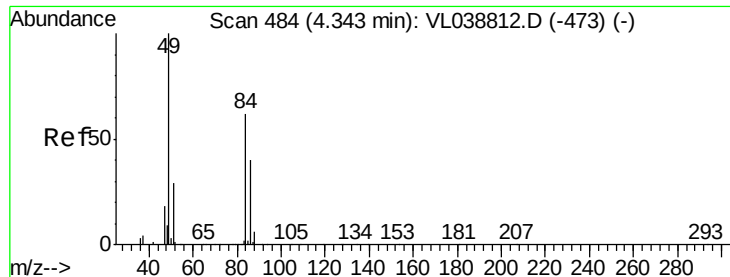
Reviewed By :Semsettin Yesilyurt 04/09/2022
Supervised By :Mahesh Dadoda 04/11/2022



#19
Isopropyl Alcohol
Concen: 11.076 ppbv
RT: 3.99 min Scan# 374
Delta R.T. 0.03 min
Lab File: VL038848.D
Acq: 7 Apr 2022 19:33

Tgt Ion: 45 Resp: 680051
Ion Ratio Lower Upper
45 100
58 85.9 0.0 0.0#



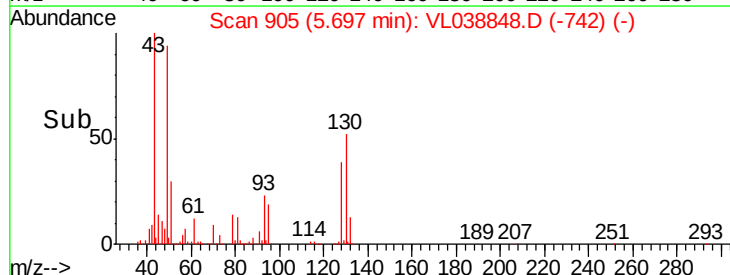
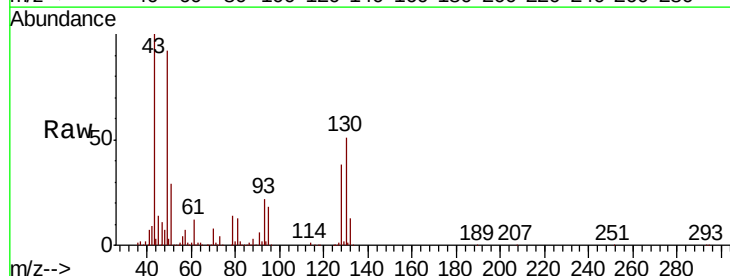
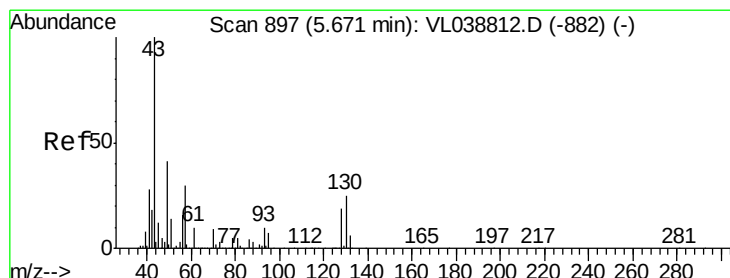
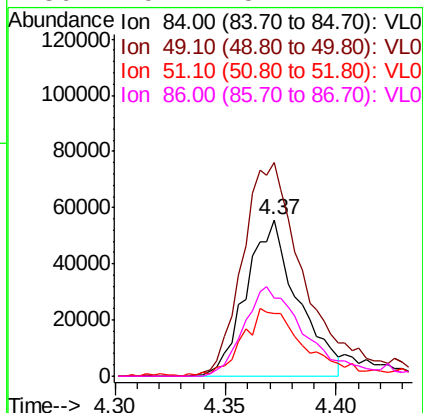


#20
Methvlene Chloride
Concen: 2.073 ppbv
RT: 4.37
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 7 Apr 2022 19:33

Tot Ion:
Ion Ratio
84 100
49 136.
51 38.
86 49.7 51.4 77.2#

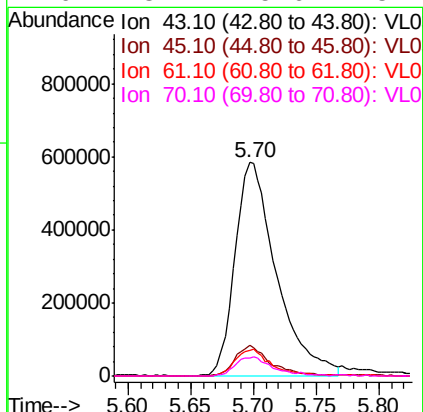
Manual Integrations
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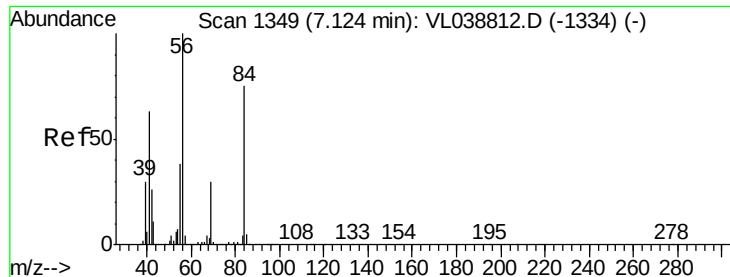
Reviewed By :Semsettin Yesilyurt 04/09/2022
Supervised By :Mahesh Dadoda 04/11/2022



#25
Ethyl Acetate
Concen: 4.397 ppbv
RT: 5.70 min Scan# 905
Delta R.T. 0.03 min
Lab File: VL038848.D
Acq: 7 Apr 2022 19:33

Tgt Ion: 43 Resp: 1340208
Ion Ratio Lower Upper
43 100
45 12.6 8.4 12.6#
61 10.9 7.9 11.9
70 8.7 5.6 8.4#



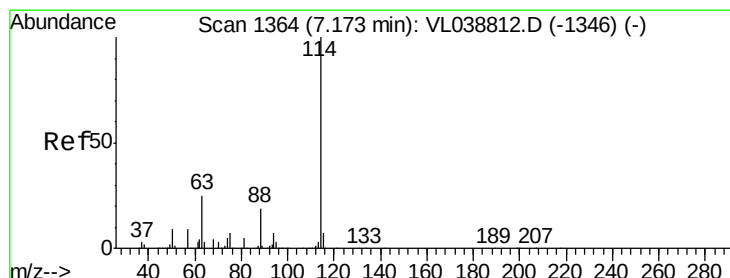
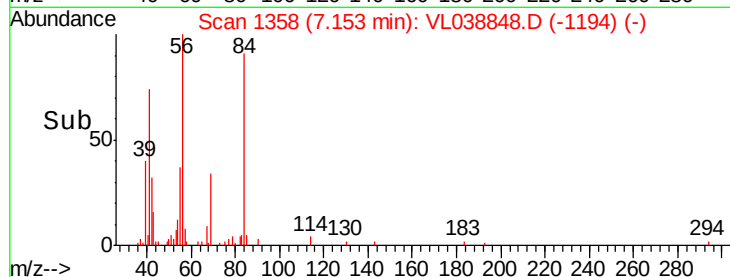
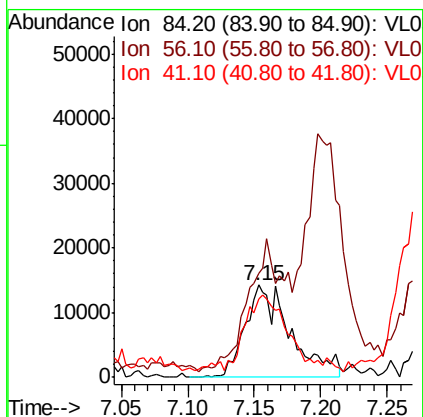
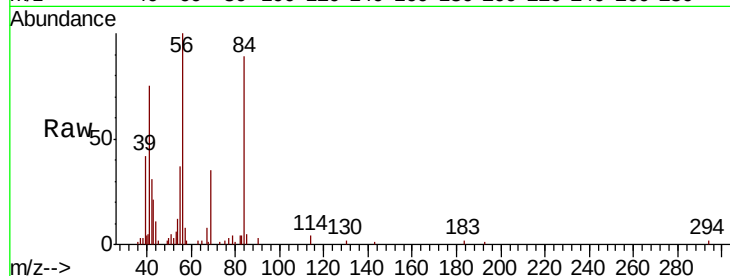


#30
Cyclohexane
Concen: 0.277 ppbv m
RT: 7.15
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 7 Apr 2022 19:33

Tot Ion:
Ion Ratio
84 100
56 108.
41 95.

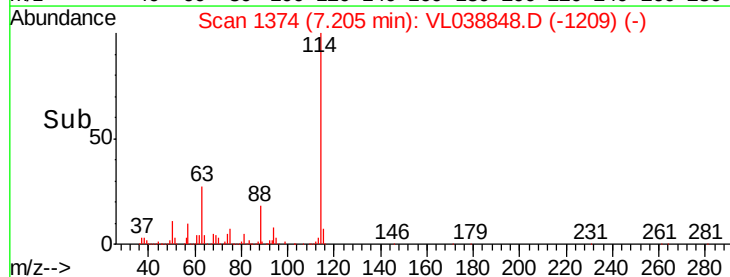
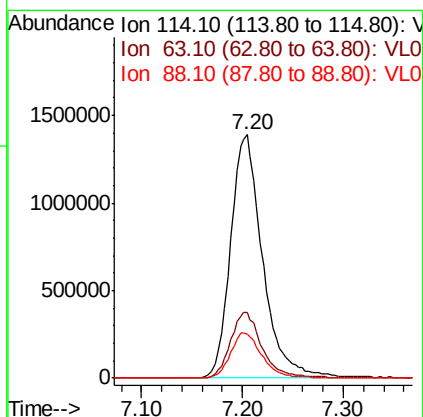
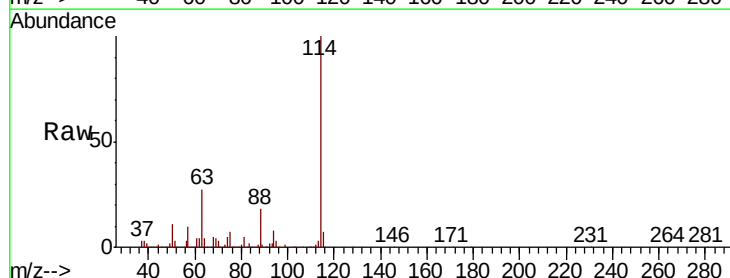
Manual Integrations
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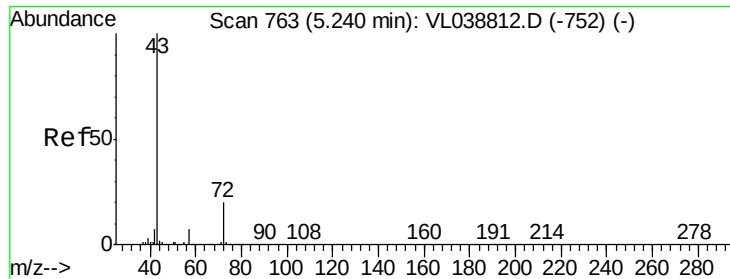
Reviewed By :Semsettin Yesilyurt 04/09/2022
Supervised By :Mahesh Dadoda 04/11/2022



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.20 min Scan# 1374
Delta R.T. 0.03 min
Lab File: VL038848.D
Acq: 7 Apr 2022 19:33

Tgt Ion:114 Resp: 3065820
Ion Ratio Lower Upper
114 100
63 27.1 19.8 29.8
88 18.8 14.2 21.4



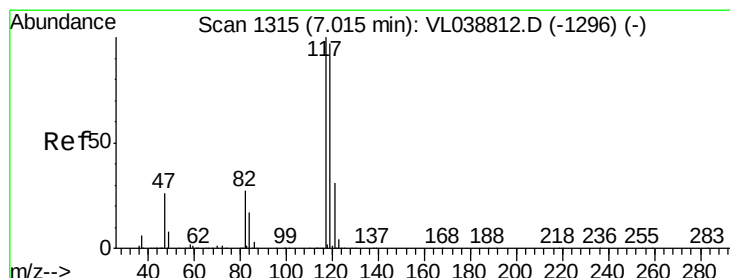
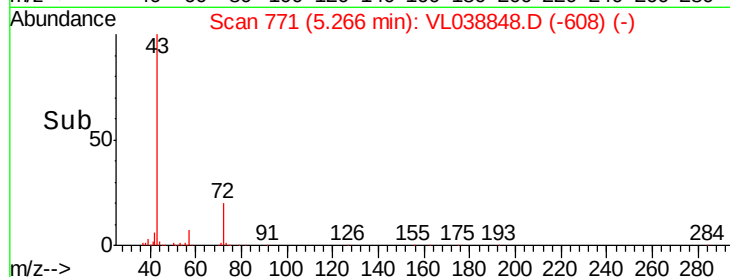
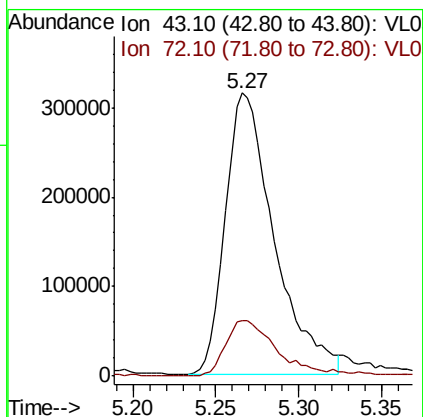
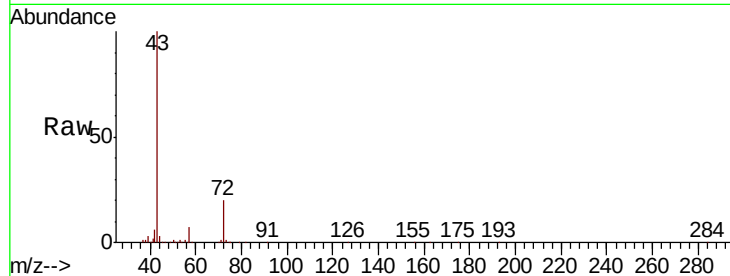


#34
2-Butanone
Concen: 5.310 ppbv
RT: 5.27
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 7 Apr 2022 19:33

Tot Ion:
Ion Ratio
43 100
72 22.

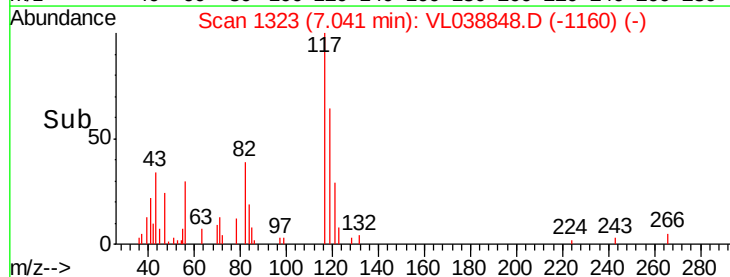
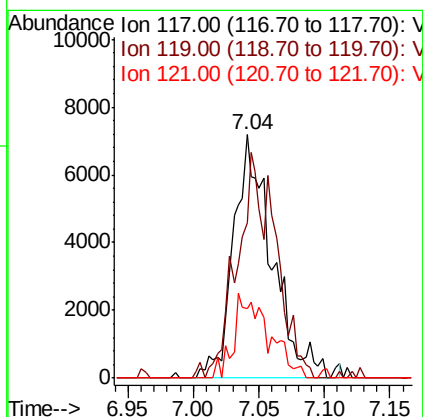
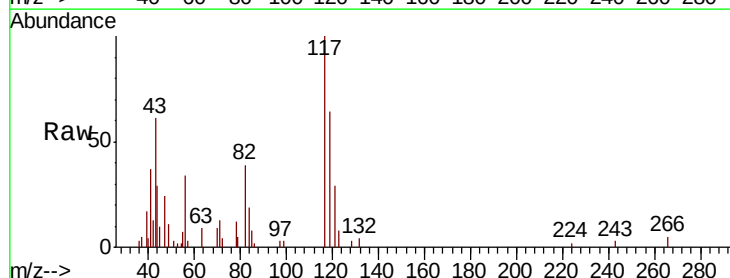
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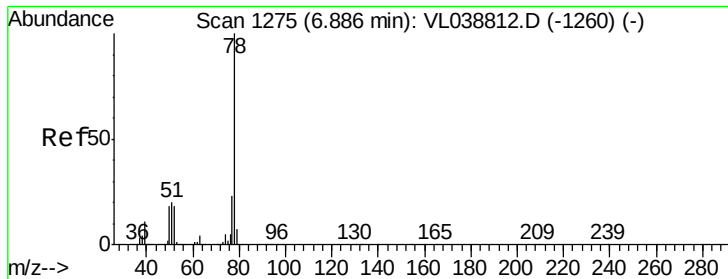
Reviewed By :Semsettin Yesilyurt 04/09/2022
Supervised By :Mahesh Dadoda 04/11/2022



#35
Carbon Tetrachloride
Concen: 0.080 ppbv m
RT: 7.04 min Scan# 1323
Delta R.T. 0.03 min
Lab File: VL038848.D
Acq: 7 Apr 2022 19:33

Tgt Ion:117 Resp: 14678
Ion Ratio Lower Upper
117 100
119 63.7 77.7 116.5#
121 28.7 24.5 36.7



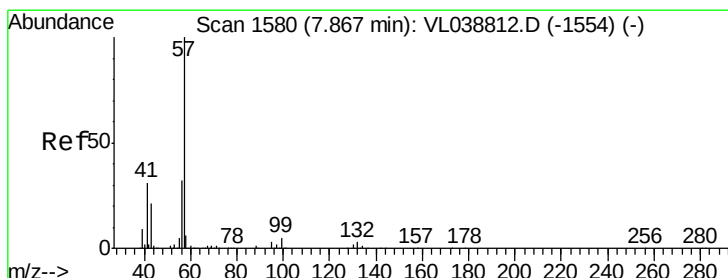
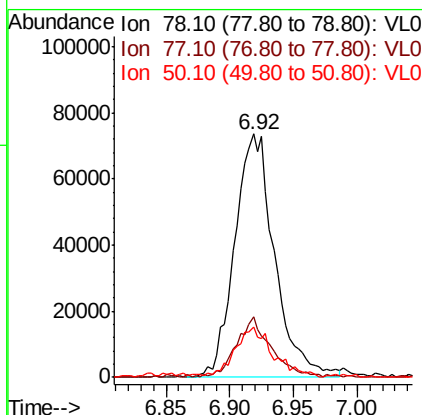
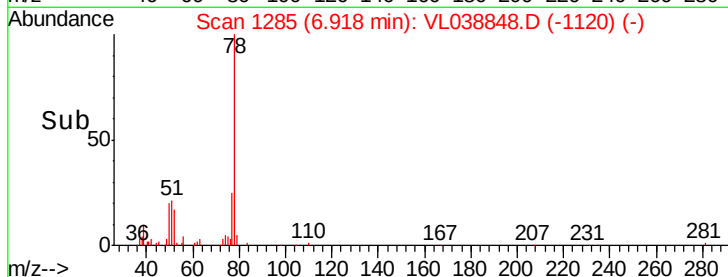
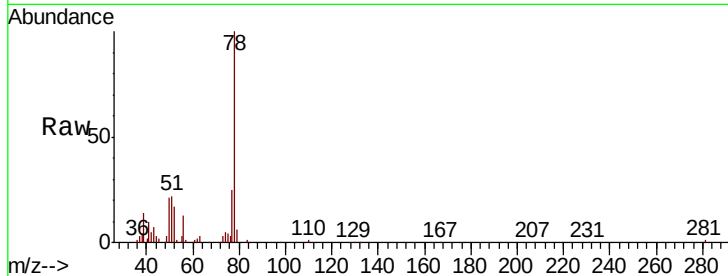


#36
Benzene
Concen: 0.575 ppbv m
RT: 6.92
Instrument : MSVOA_1
Delta R.T.
Lab File: ClientSampleId :
Acq: 7 Apr 2022 19:33

Tot Ion:
Ion Rati
78 100
77 24.
50 20.

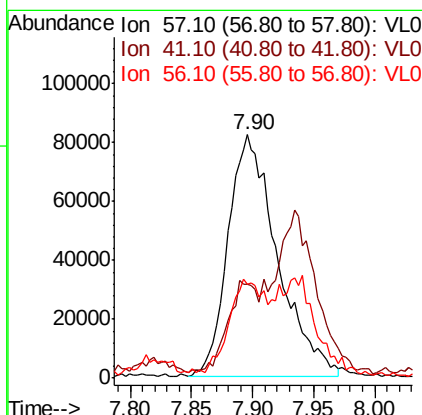
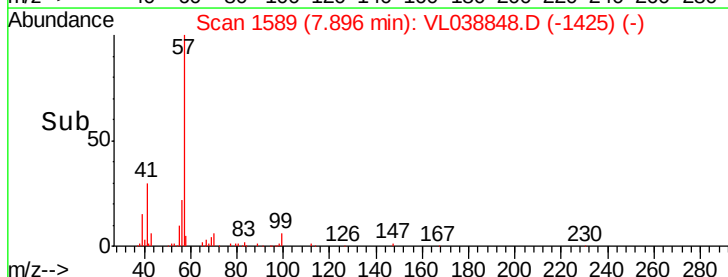
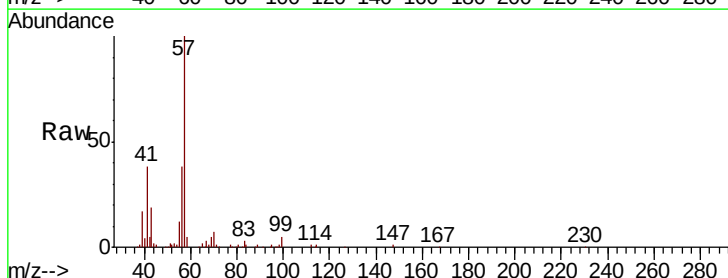
Manual Integrations
APPROVED

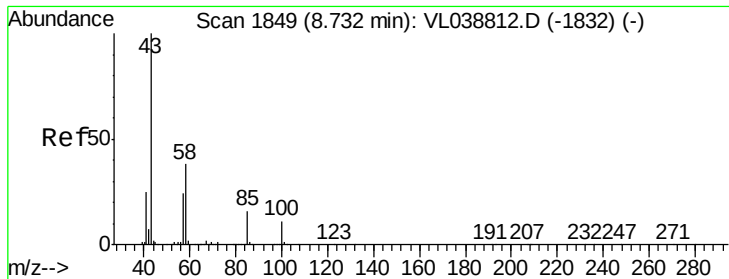
Reviewed By :Semsettin Yesilyurt 04/09/2022
Supervised By :Mahesh Dadoda 04/11/2022



#44
2,2,4-Trimethylpentane
Concen: 0.486 ppbv
RT: 7.90 min Scan# 1589
Delta R.T. 0.03 min
Lab File: VL038848.D
Acq: 7 Apr 2022 19:33

Tgt Ion: 57 Resp: 229279
Ion Ratio Lower Upper
57 100
41 0.0 25.0 37.4#
56 30.0 25.3 37.9



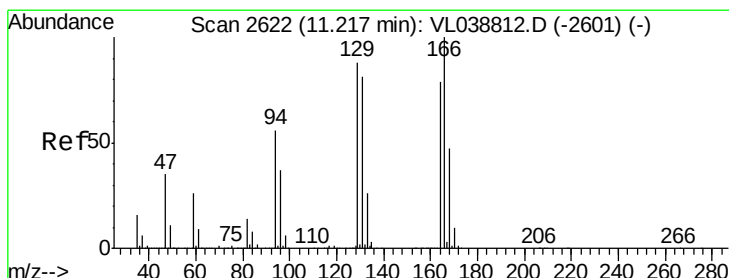
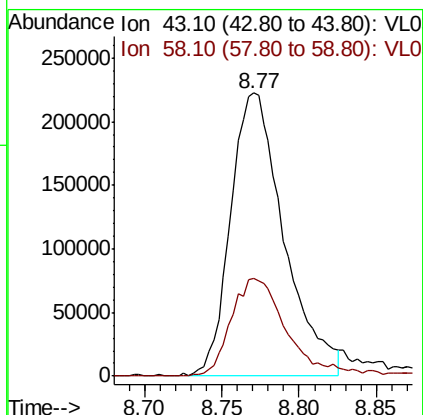
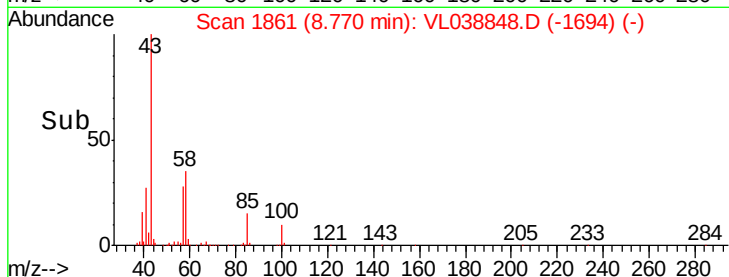
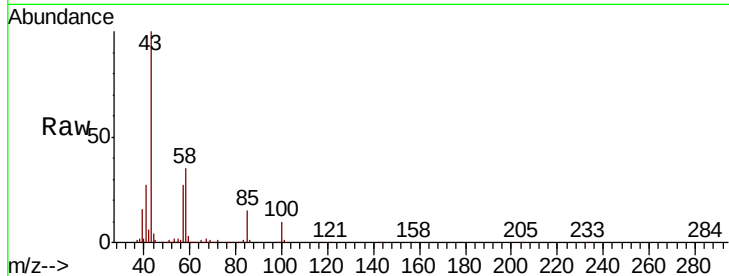


#50
4-Methyl-2-Pentanone
Concen: 1.941 ppbv
RT: 8.77
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
1160-1-1A-3
Acq: 7 Apr 2022 19:33

Tot Ion:
Ion Ratio
43 100
58 38.

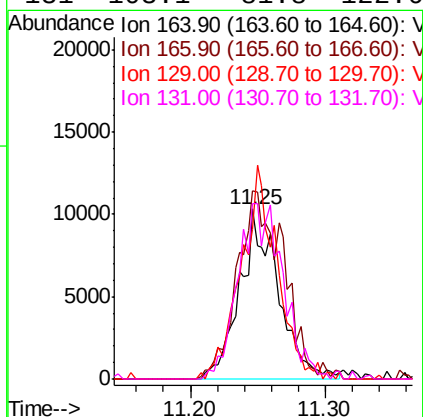
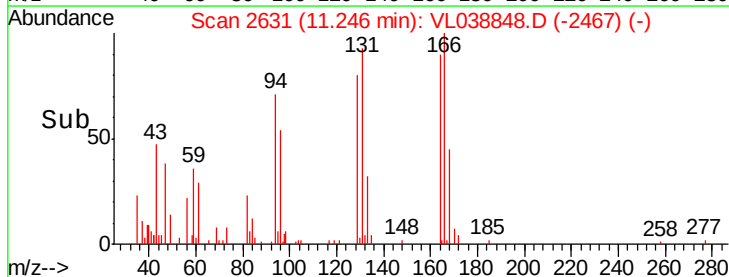
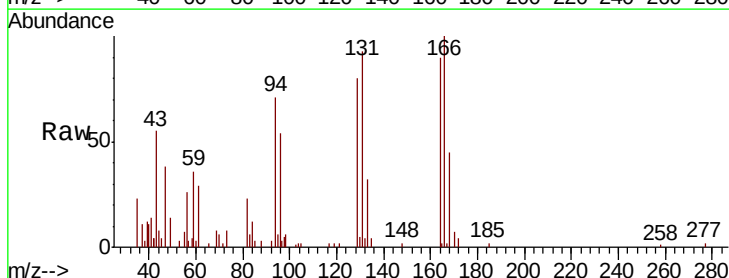
Manual Integrations
APPROVED

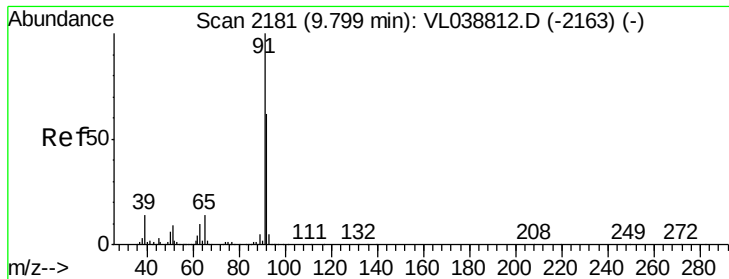
Reviewed By :Semsettin Yesilyurt 04/09/2022
Supervised By :Mahesh Dadoda 04/11/2022



#52
Tetrachloroethene
Concen: 0.210 ppbv m
RT: 11.25 min Scan# 2631
Delta R.T. 0.03 min
Lab File: VL038848.D
Acq: 7 Apr 2022 19:33

Tgt Ion:164 Resp: 20502
Ion Ratio Lower Upper
164 100
166 110.8 101.0 151.6
129 88.4 88.7 133.1#
131 103.1 81.8 122.6



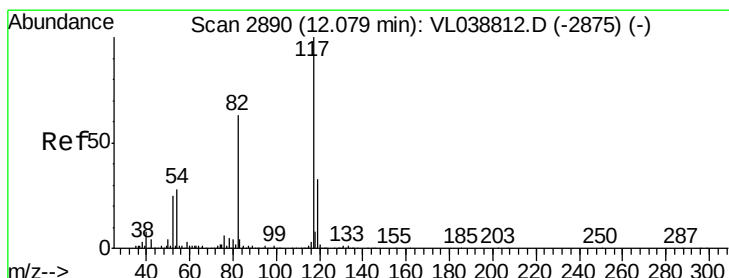
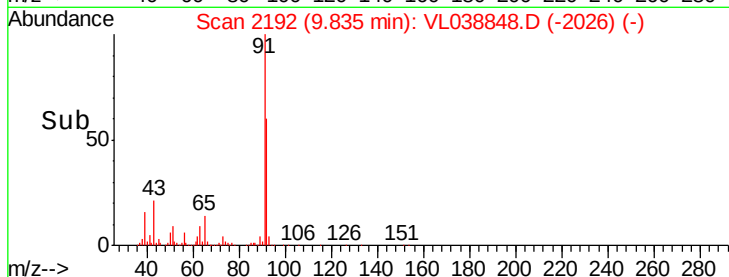
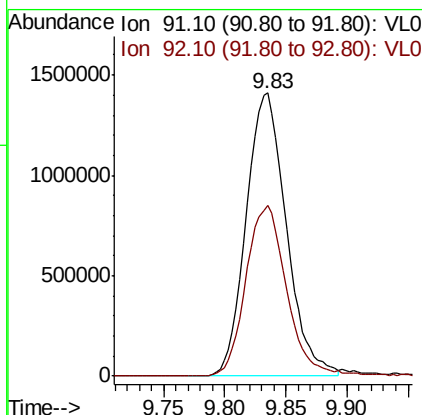
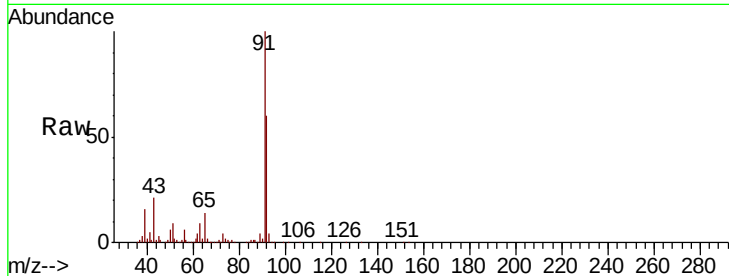


#53
Toluene
Concen: 9.967 ppbv
RT: 9.83
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 7 Apr 2022 19:33

Tot Ion:
Ion Ratio
91 100
92 62.

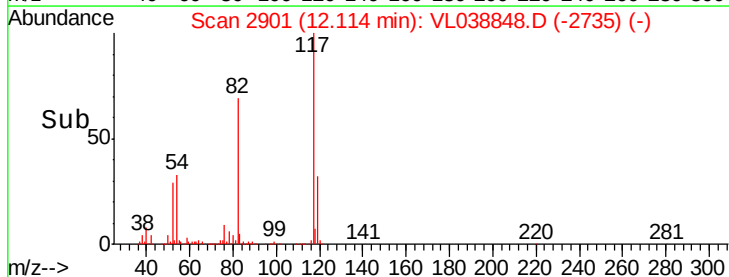
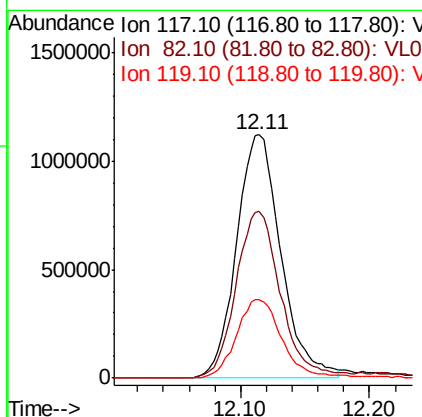
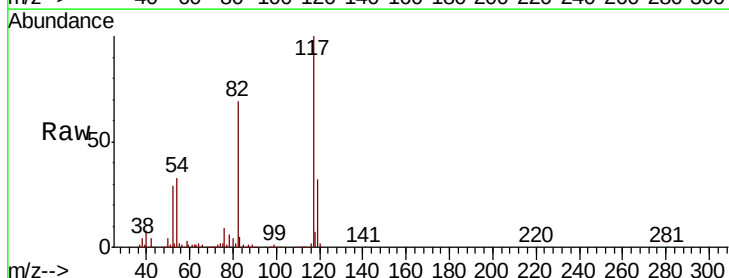
Manual Integrations
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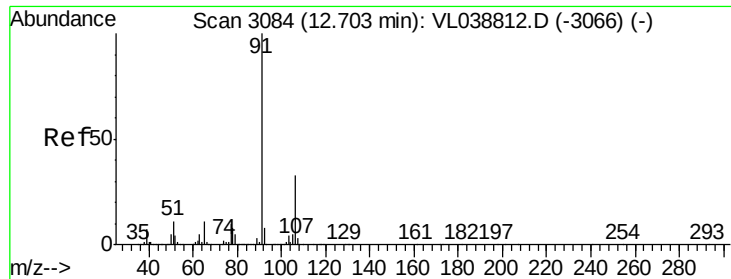
Reviewed By :Semsettin Yesilyurt 04/09/2022
Supervised By :Mahesh Dadoda 04/11/2022



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.11 min Scan# 2901
Delta R.T. 0.04 min
Lab File: VL038848.D
Acq: 7 Apr 2022 19:33

Tgt Ion:117 Resp: 2678384
Ion Ratio Lower Upper
117 100
82 73.0 53.0 79.6
119 34.3 24.9 37.3





#58

Ethyl Benzene

Concen: 1.486 ppbv m

RT: 12.73

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 7 Apr 2022 19:33

Tot Ion:

Ion Ratio

91 100

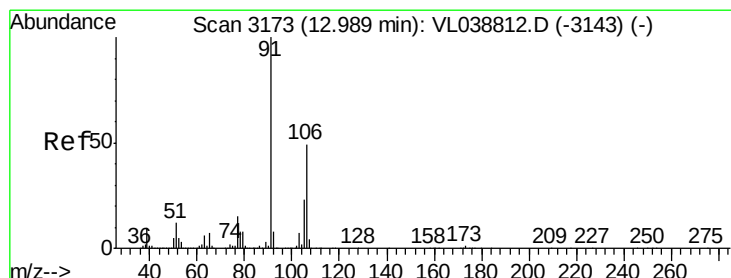
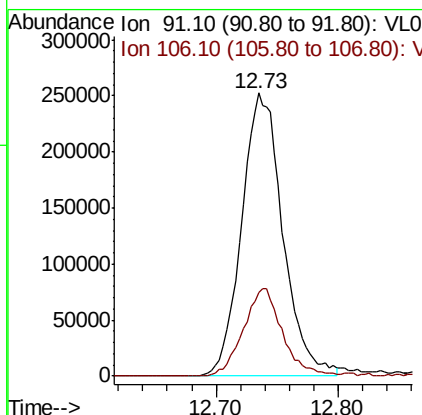
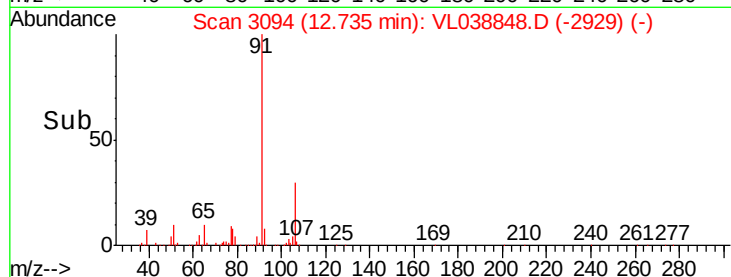
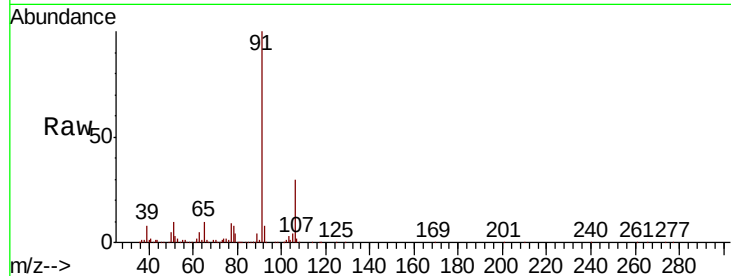
106 29.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/09/2022

Supervised By :Mahesh Dadoda 04/11/2022



#59

m/p-Xylene

Concen: 5.135 ppbv

RT: 12.99 min Scan# 3174

Delta R.T. 0.00 min

Lab File: VL038848.D

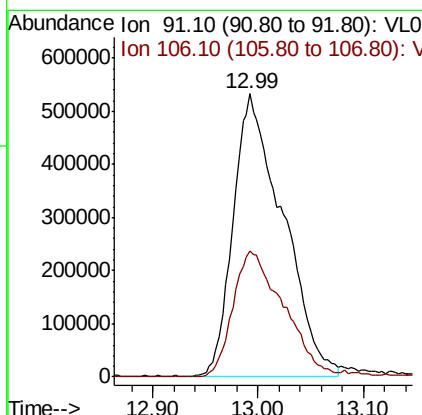
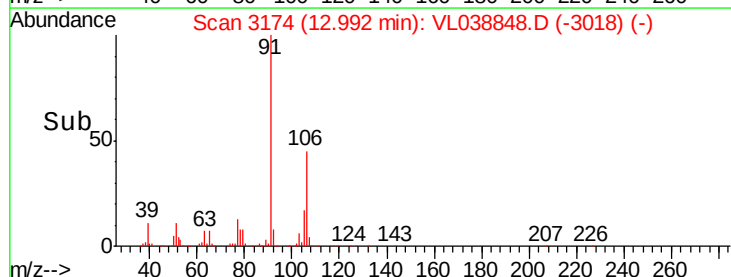
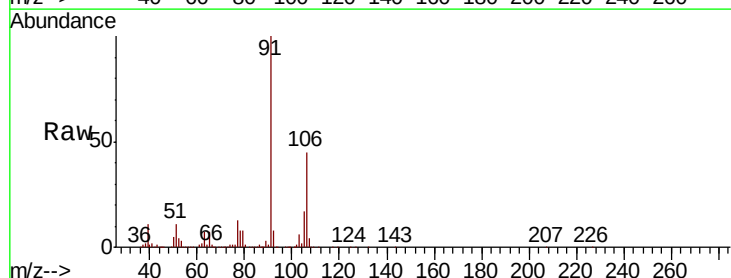
Acq: 7 Apr 2022 19:33

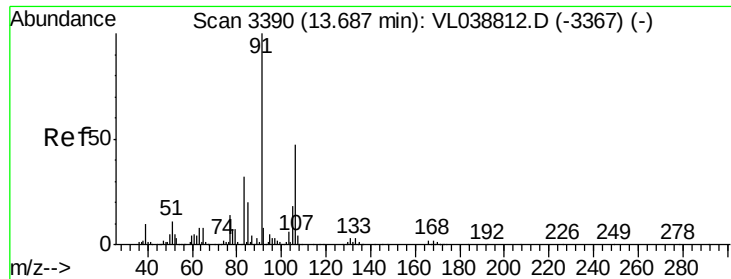
Tgt Ion: 91 Resp: 1726555

Ion Ratio Lower Upper

91 100

106 47.3 37.1 55.7



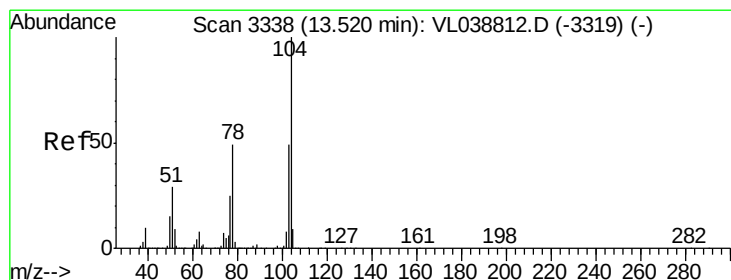
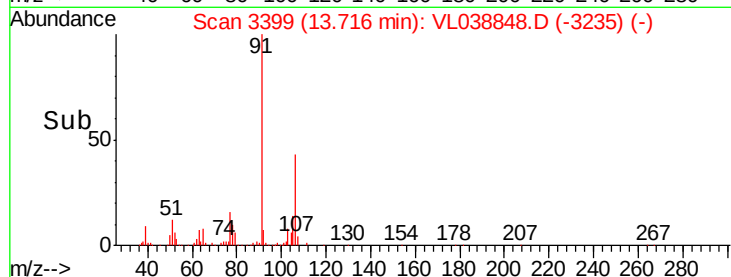
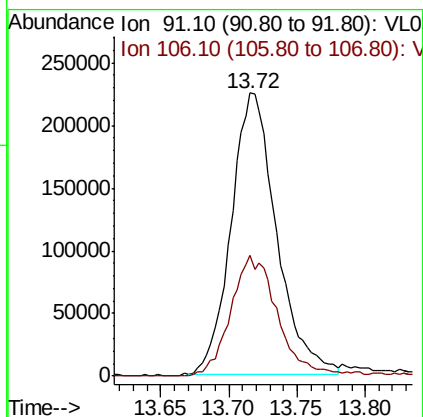
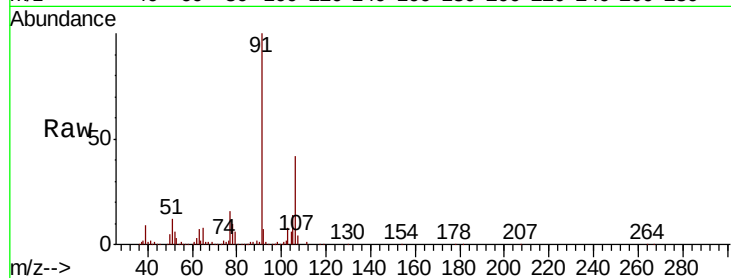


#60
o-Xylene
Concen: 1.650 ppbv
RT: 13.72
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 7 Apr 2022 19:33

Tot Ion:
Ion Ratio
91 100
106 45.

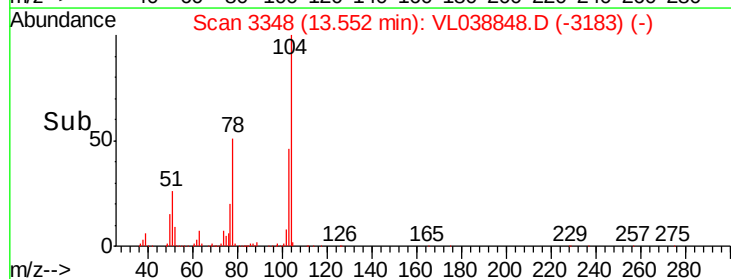
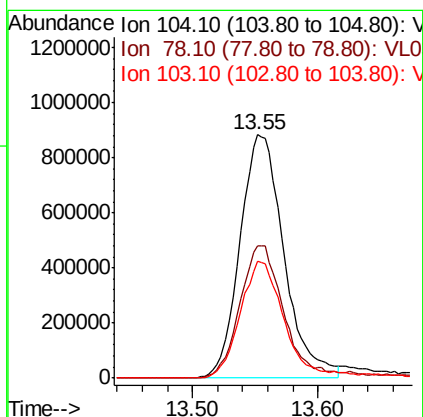
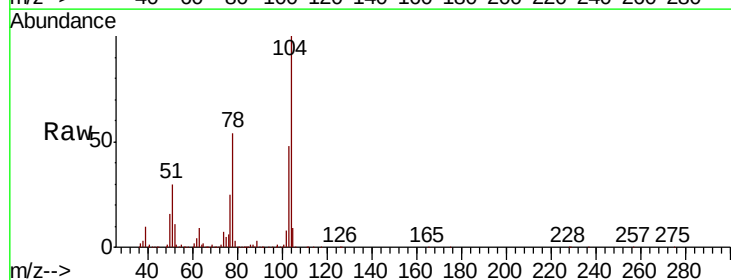
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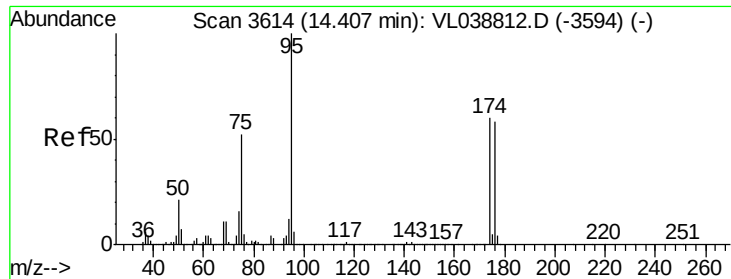
Reviewed By :Semsettin Yesilyurt 04/09/2022
Supervised By :Mahesh Dadoda 04/11/2022



#61
Styrene
Concen: 11.247 ppbv
RT: 13.55 min Scan# 3348
Delta R.T. 0.03 min
Lab File: VL038848.D
Acq: 7 Apr 2022 19:33

Tgt Ion:104 Resp: 2155861
Ion Ratio Lower Upper
104 100
78 56.6 40.5 60.7
103 49.2 39.0 58.4





#68

1-Bromo-4-Fluorobenzene

Concen: 10.974 ppbv

RT: 14.44

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 7 Apr 2022 19:33

Tot Ion:

Ion Ratio

95 100

174 61.

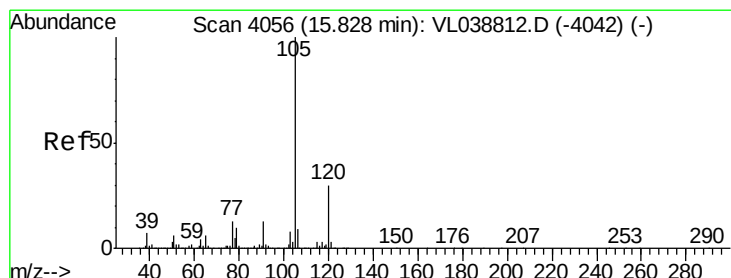
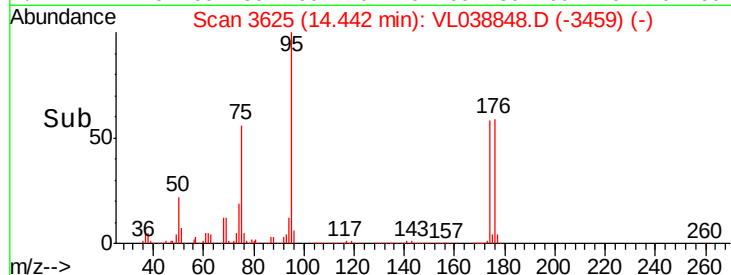
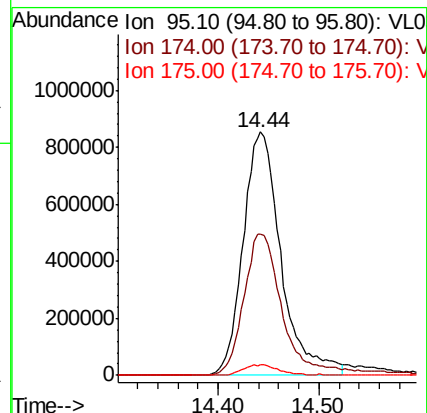
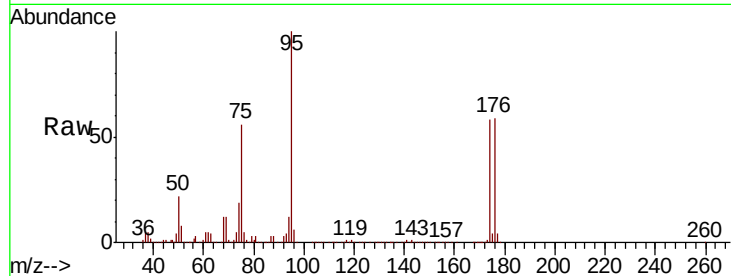
175 4.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/09/2022

Supervised By :Mahesh Dadoda 04/11/2022



#72

4-Ethyltoluene

Concen: 0.319 ppbv

RT: 15.87 min Scan# 4068

Delta R.T. 0.04 min

Lab File: VL038848.D

Acq: 7 Apr 2022 19:33

Tgt Ion:105 Resp: 119946

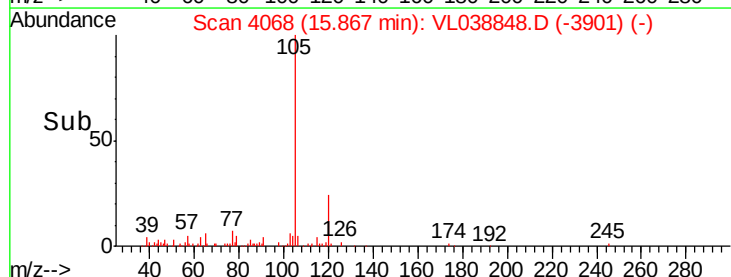
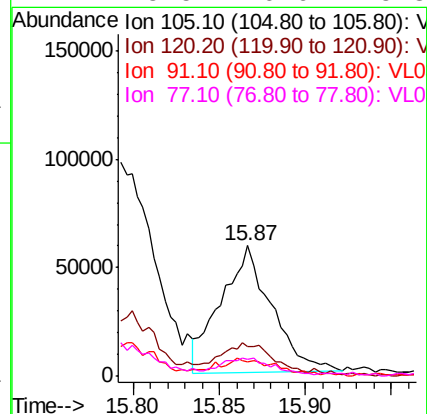
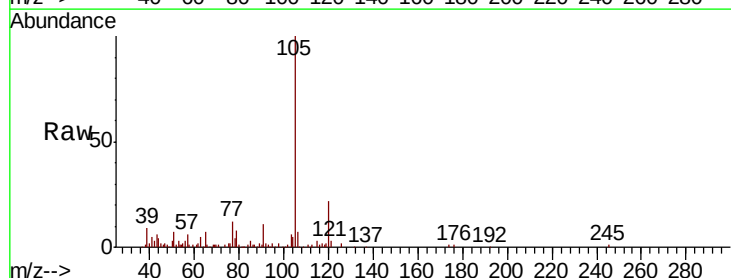
Ion Ratio Lower Upper

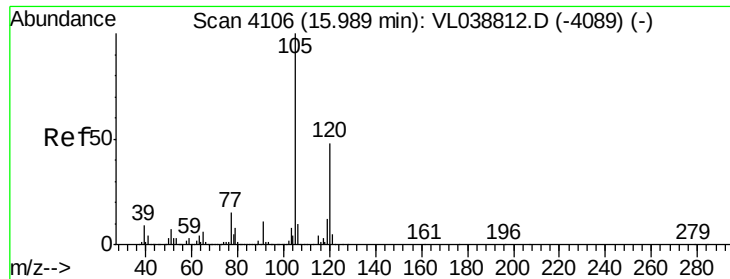
105 100

120 31.4 24.3 36.5

91 11.7 9.4 14.2

77 15.5 10.6 15.8



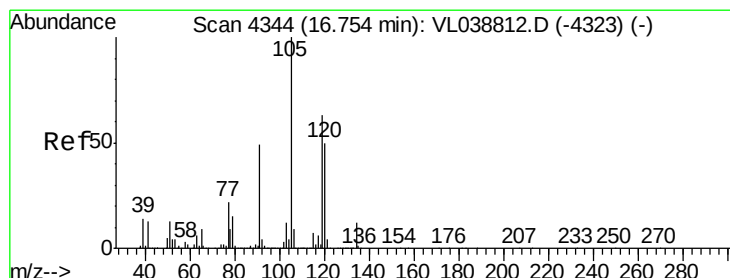
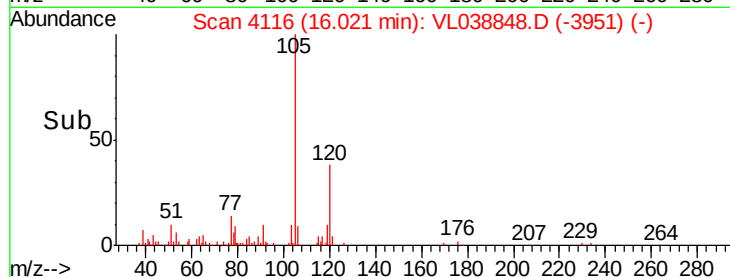
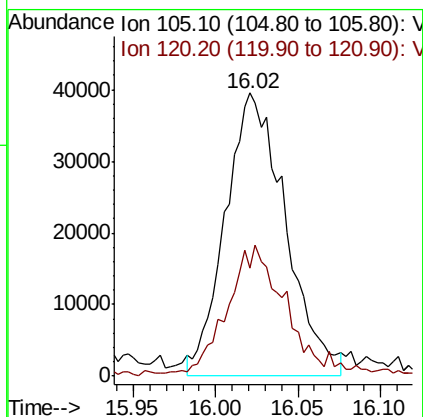
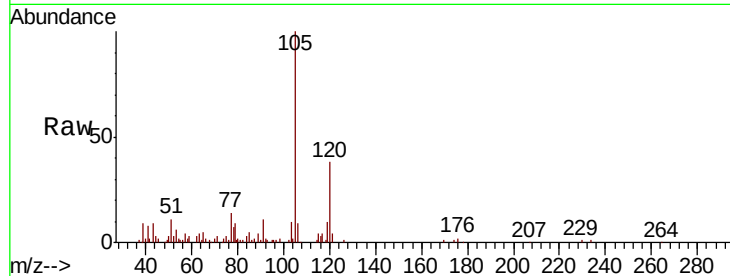


#73
 1,3,5-Trimethylbenzene
 Concen: 0.297 ppbv m
 RT: 16.02
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 1160-1-1A-3
 Acq: 7 Apr 2022 19:33

Tot Ion:1
 Ion Rati
 105 100
 120 37.

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



#74
 1,2,4-Trimethylbenzene
 Concen: 0.947 ppbv
 RT: 16.79 min Scan# 4355
 Delta R.T. 0.04 min
 Lab File: VL038848.D
 Acq: 7 Apr 2022 19:33

Tgt Ion:105 Resp: 338010
 Ion Ratio Lower Upper
 105 100
 120 43.5 39.8 59.8
 91 11.7 39.4 59.0#
 77 12.5 17.3 25.9#

